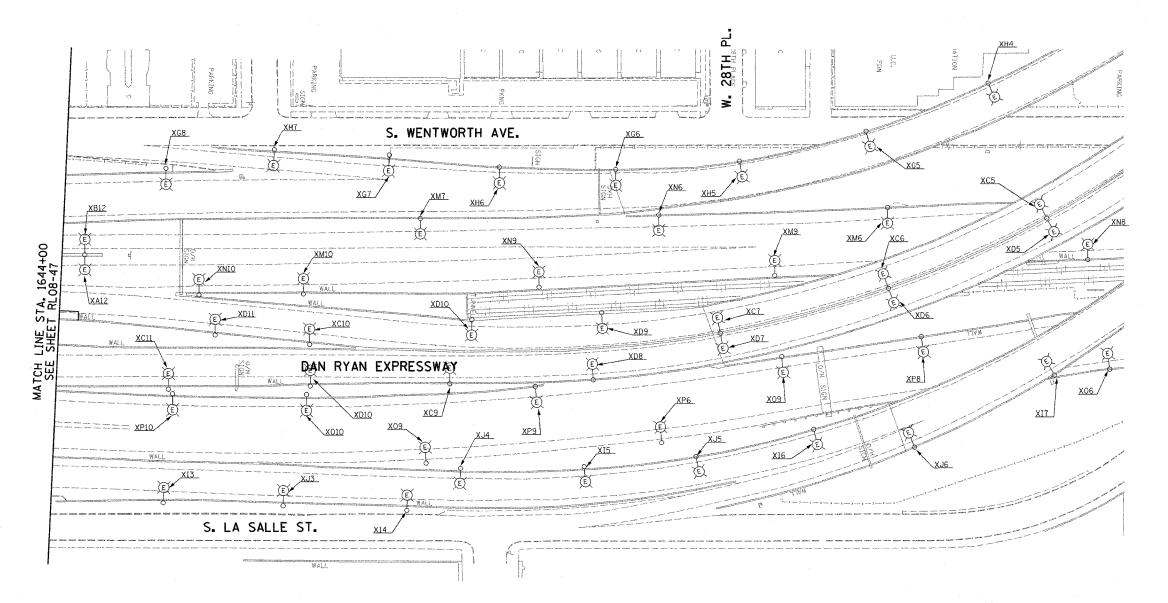


 F.A.I. RTE.	SECTIO	N	COUNTY	′	TOTAL	SHEET NO.
94/90	2003-03	11	COOK		976	304
STA. 1	644+00	TO	STA.	-		
FED. ROA	D DIST. NO.	ILLINOIS	FED. A	AID	PROJECT	

62583



NOTES:

 SEE SHEET ME-01 FOR ELECTRICAL SYMBOLS, ABBREVIATIONS, AND NOTES.

RL08-48

0 50' 100'

SIONS

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

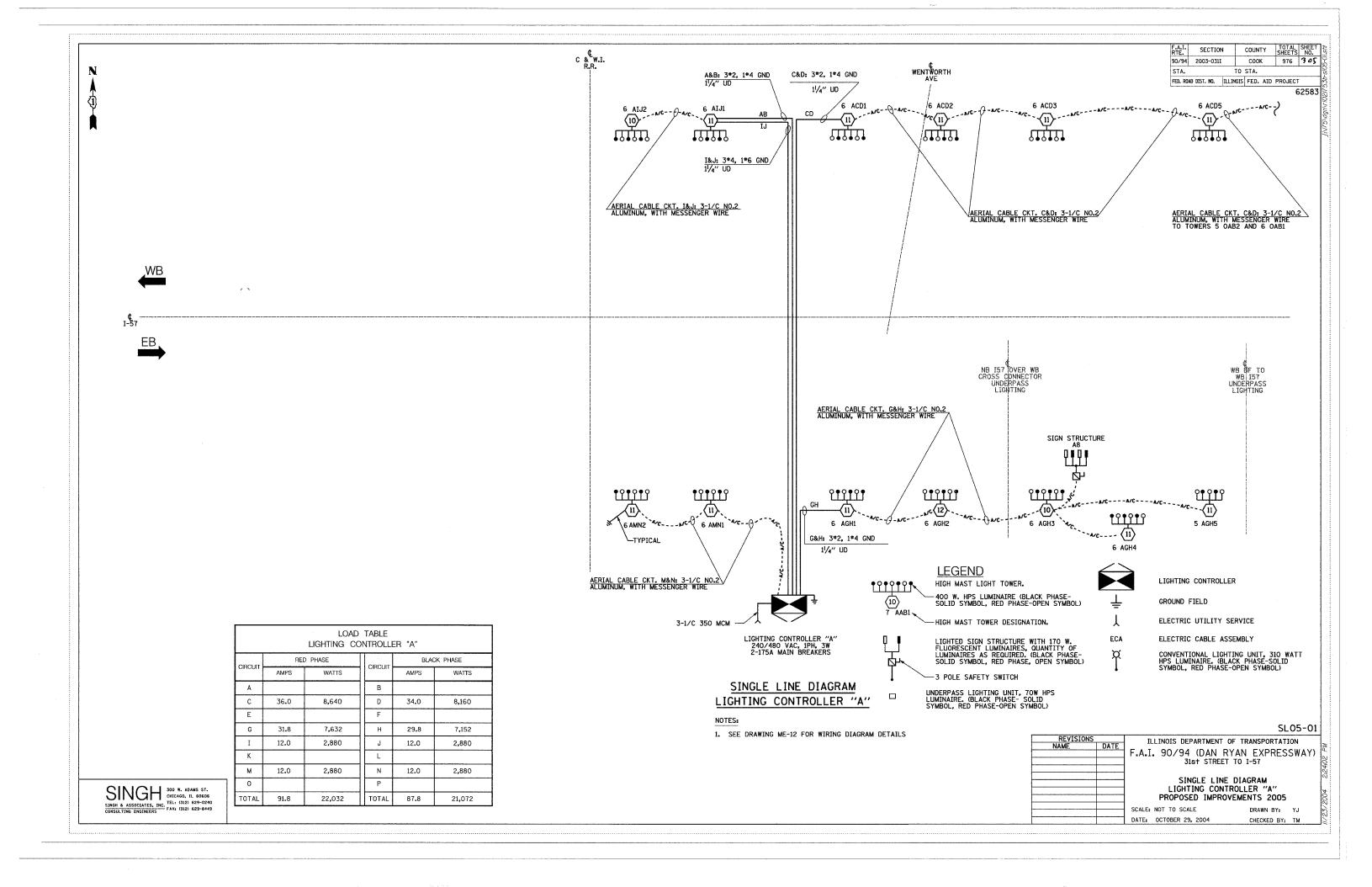
ROADWAY LIGHTING PLANS FINAL IMPROVEMENTS

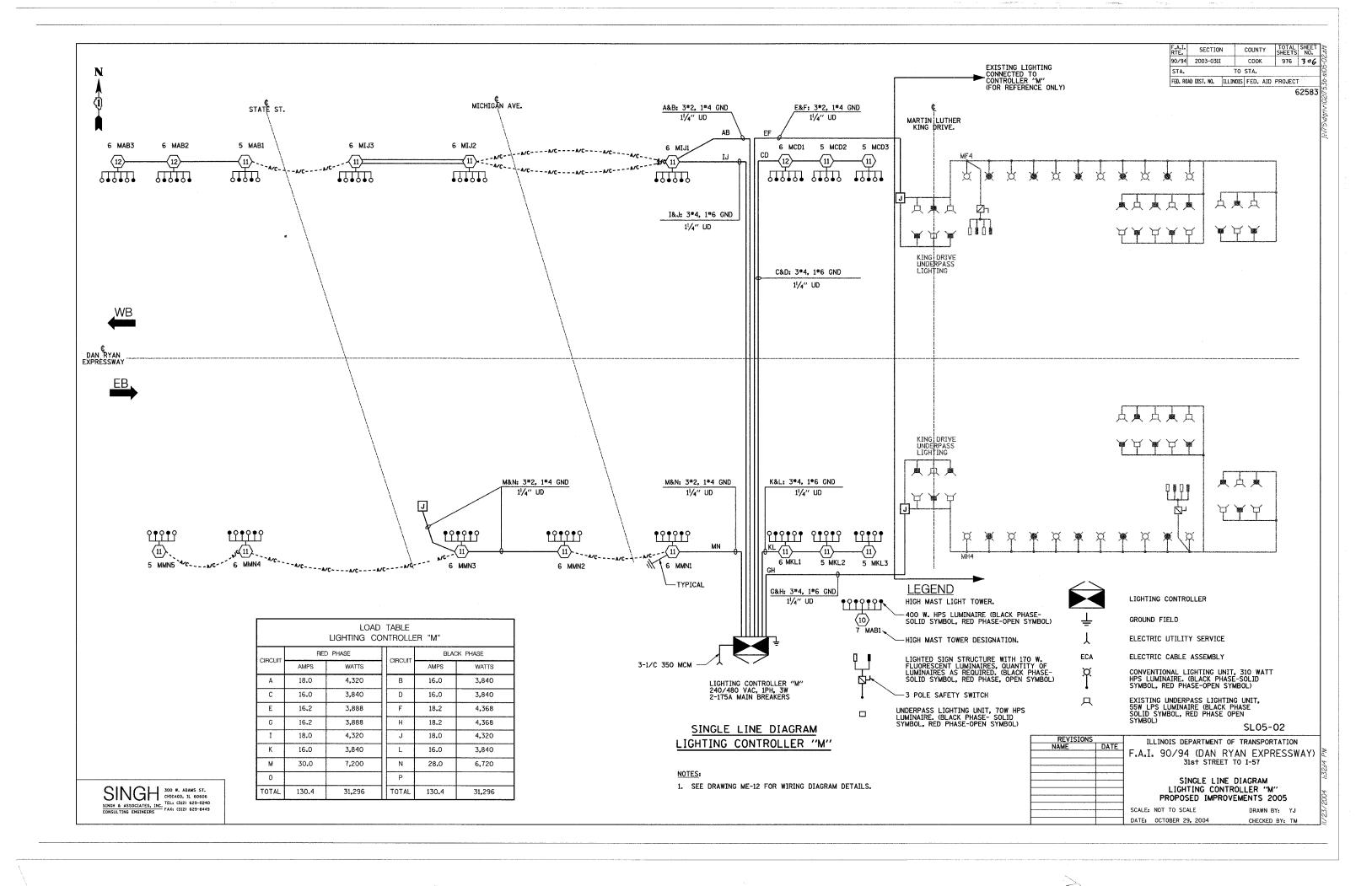
SCALE: 1"=50"

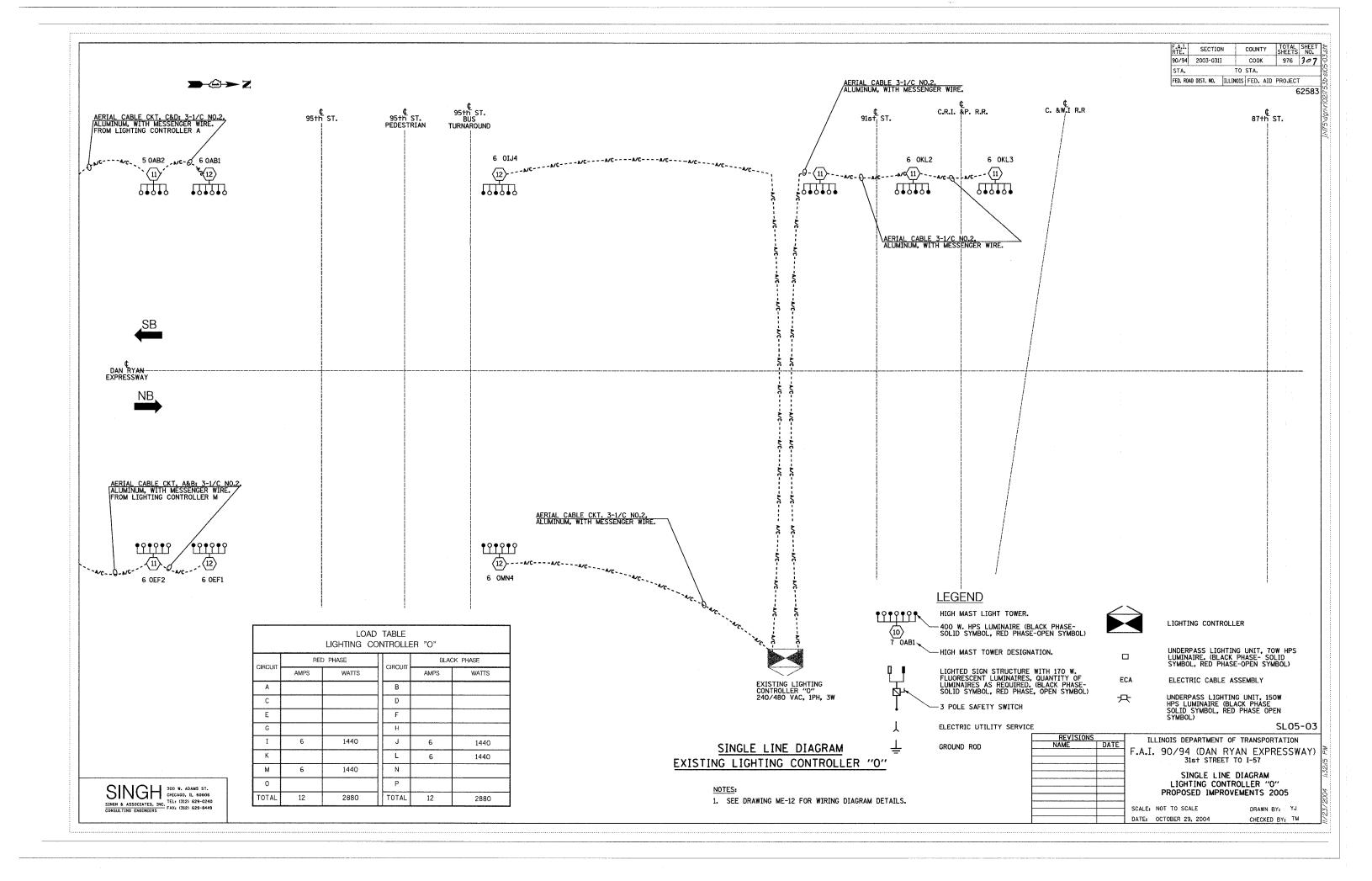
DATE: OCTOBER 29, 2004

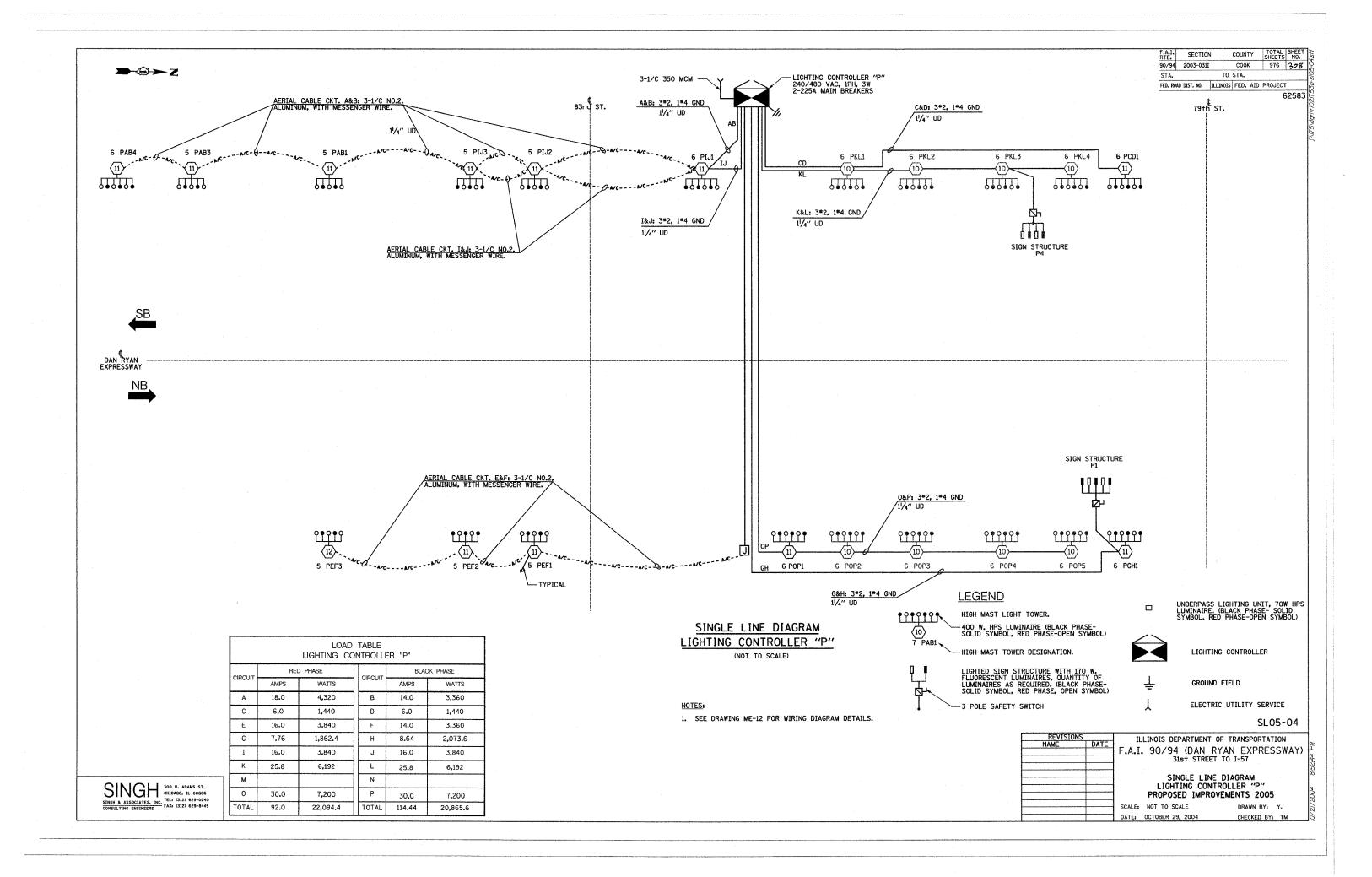
DRAWN BY: BL CHECKED BY: SM

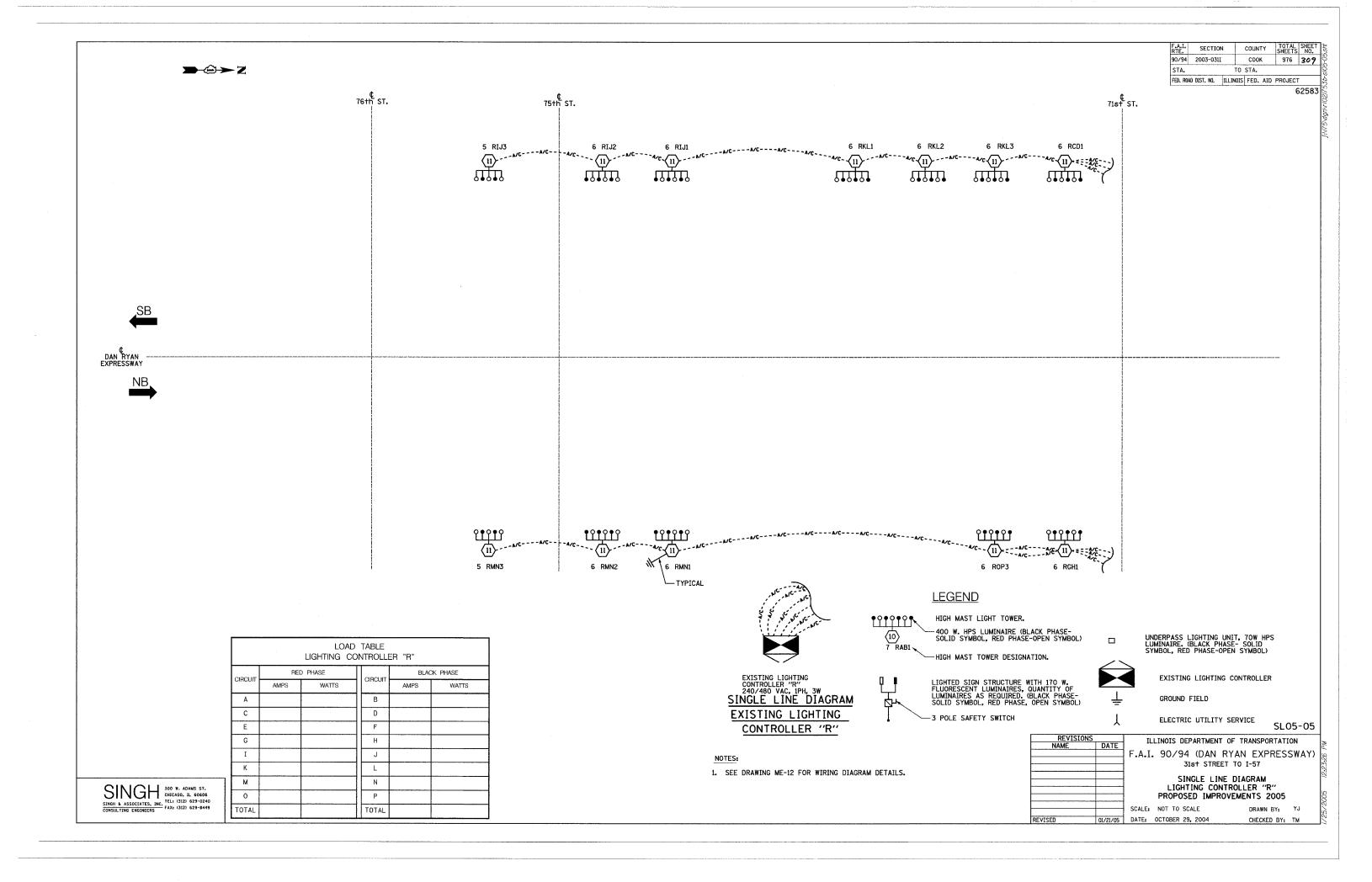
KAM ENGINEERING, INC. consulting Engineers 707A Davis Road, Suite 205 Eigin, illinois 60/23-1569

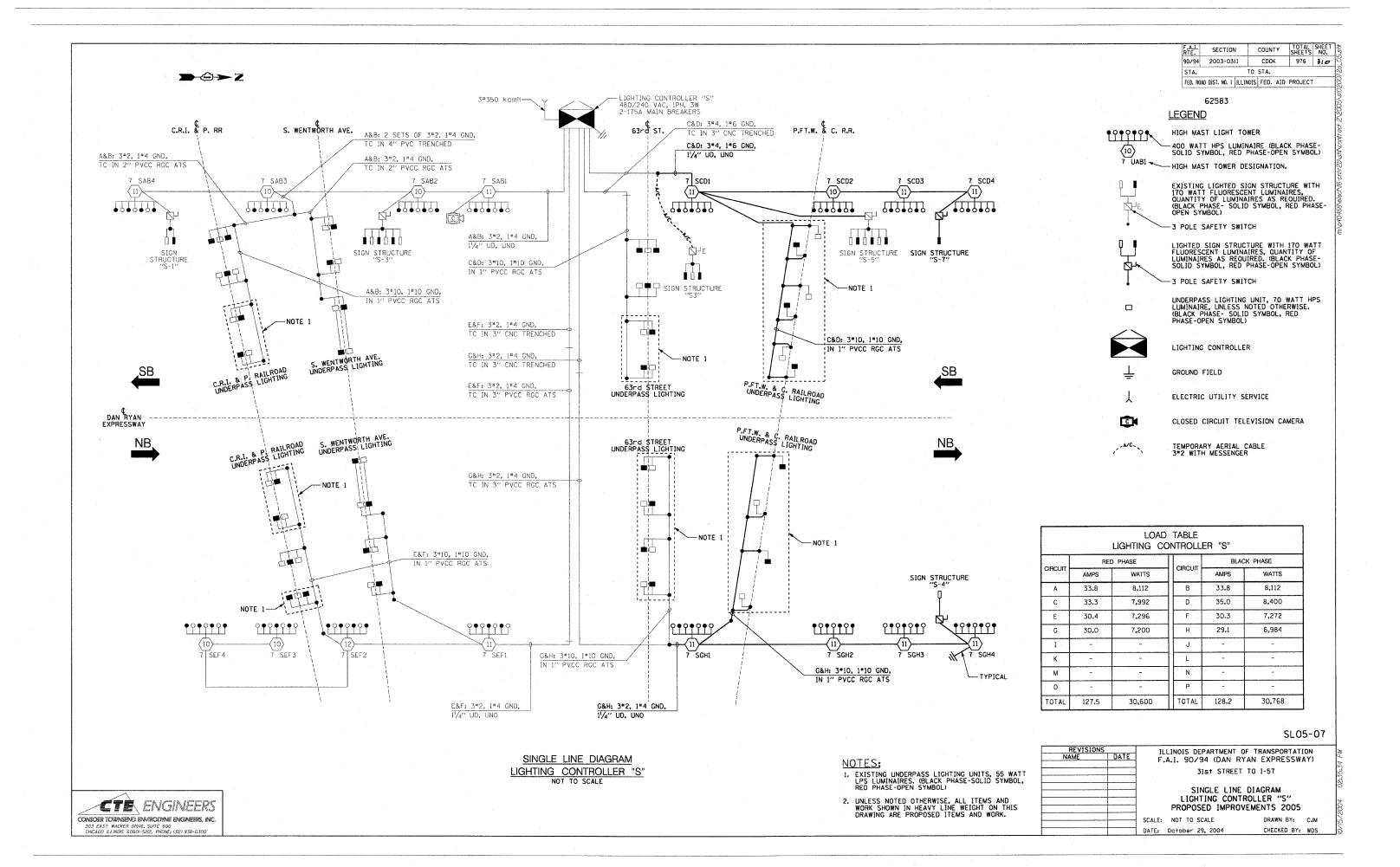


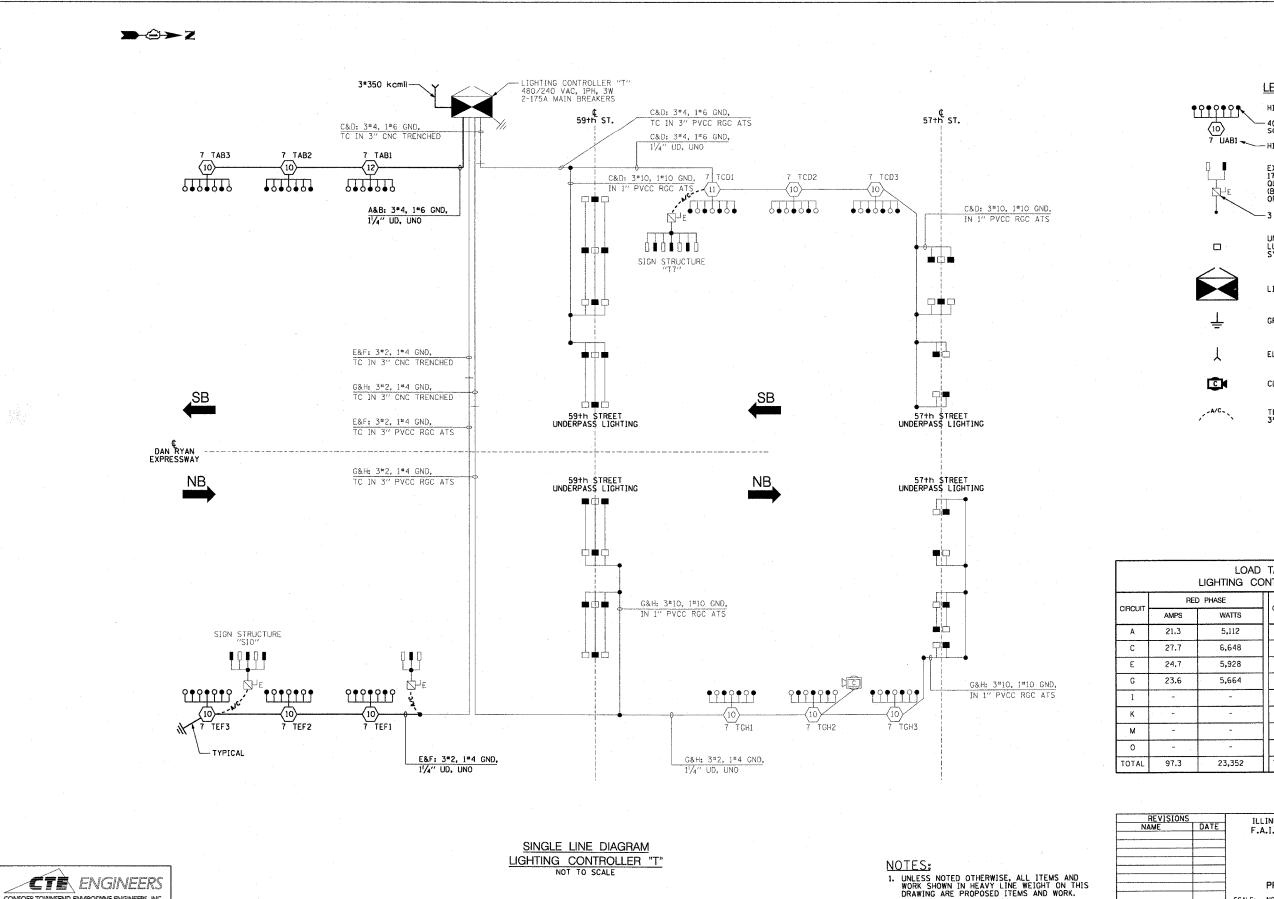












CONSOER TOWNSEND EMPRODINE ENGINEERS, INC. 303 EAST WACKER DRIVE, SUITE 600 CHICAGO ILLINOIS 60601-5212, PHONE: (312) 938-0300

SECTION COUNTY TOTAL SHEETS NO. 90/94 2003-0311 COOK 976 311 TO STA. FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT

62583

LEGEND

HIGH MAST LIGHT TOWER

-400 WATT HPS LUMINAIRE (BLACK PHASE-SOLID SYMBOL, RED PHASE-OPEN SYMBOL) --- HIGH MAST TOWER DESIGNATION.

EXISTING LIGHTED SIGN STRUCTURE WITH 170 WATT FLUORESCENT LUMINAIRES, QUANTITY OF LUMINAIRES AS REQUIRED. (BLACK PHASE- SOLID SYMBOL, RED PHASE-OPEN SYMBOL)

-3 POLE SAFETY SWITCH



UNDERPASS LIGHTING UNIT, 70 WATT HPS LUMINAIRE, (BLACK PHASE- SOLID SYMBOL, RED PHASE-OPEN SYMBOL)

LIGHTING CONTROLLER

GROUND FIELD

ELECTRIC UTILITY SERVICE

CLOSED CIRCUIT TELEVISION CAMERA

TEMPORARY AERIAL CABLE 3*2 WITH MESSENGER

	LC	AD	TABLE		
LIGHTING CONTROLLER "T	LIGHTING	CC	NTROLLE	7	"T

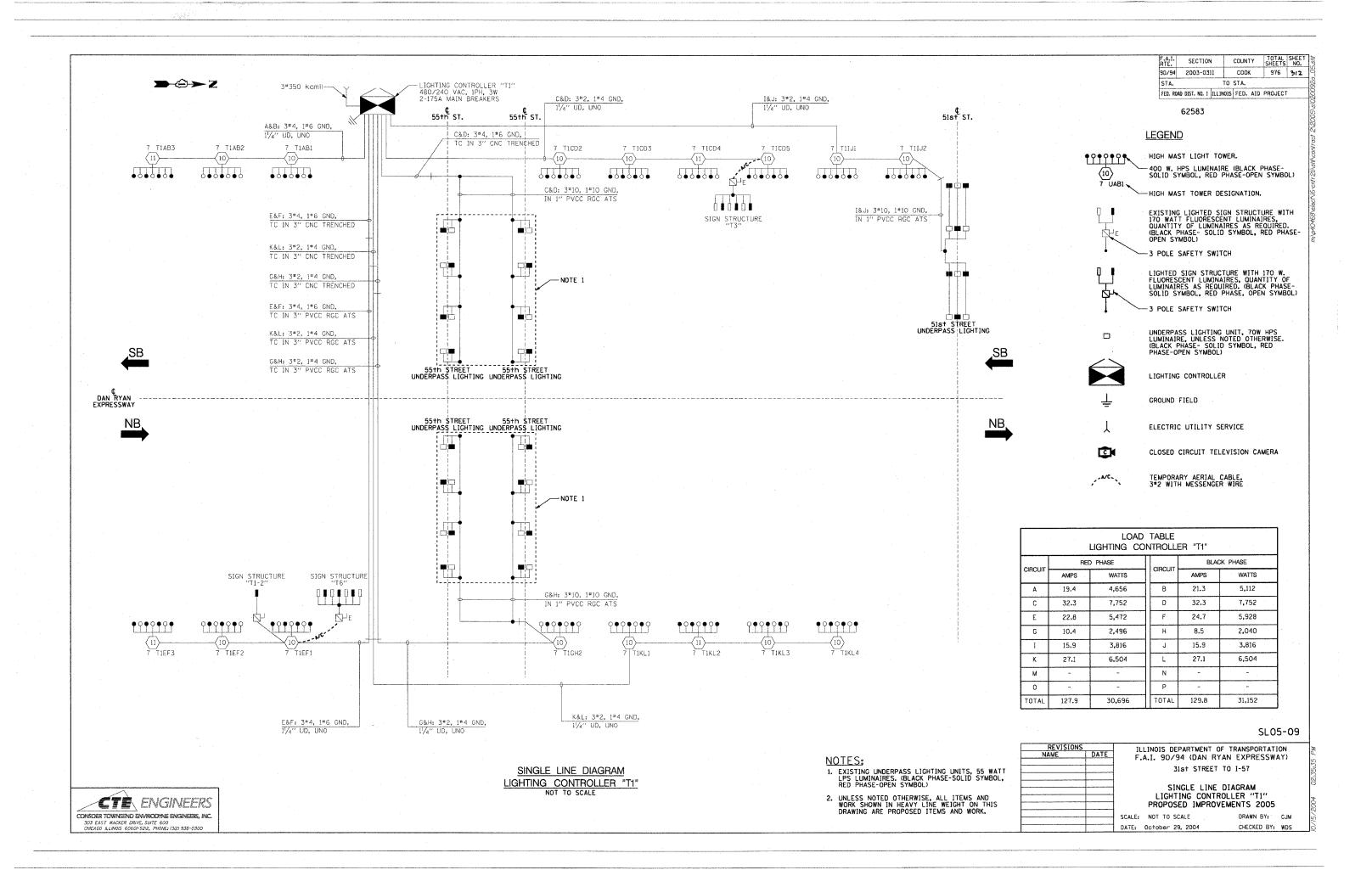
	RED PHASE		0.000.00	BLACK PHASE		
CIRCUIT -	AMPS	WATTS	CIRCUIT	AMPS	WATTS	
Α	21.3	5,112	В	19.4	4,656	
С	27.7	6,648	D	28.4	6,816	
E	24.7	5,928	F	22.8	5,472	
G	23.6	5,664	Н	25.5	6,120	
I	-	-	J	-	_	
К		-	L	-	-	
M	-	-	N	-	_	
0		-	Р	-	*	
TOTAL	97.3	23,352	TOTAL	96.1	23,064	

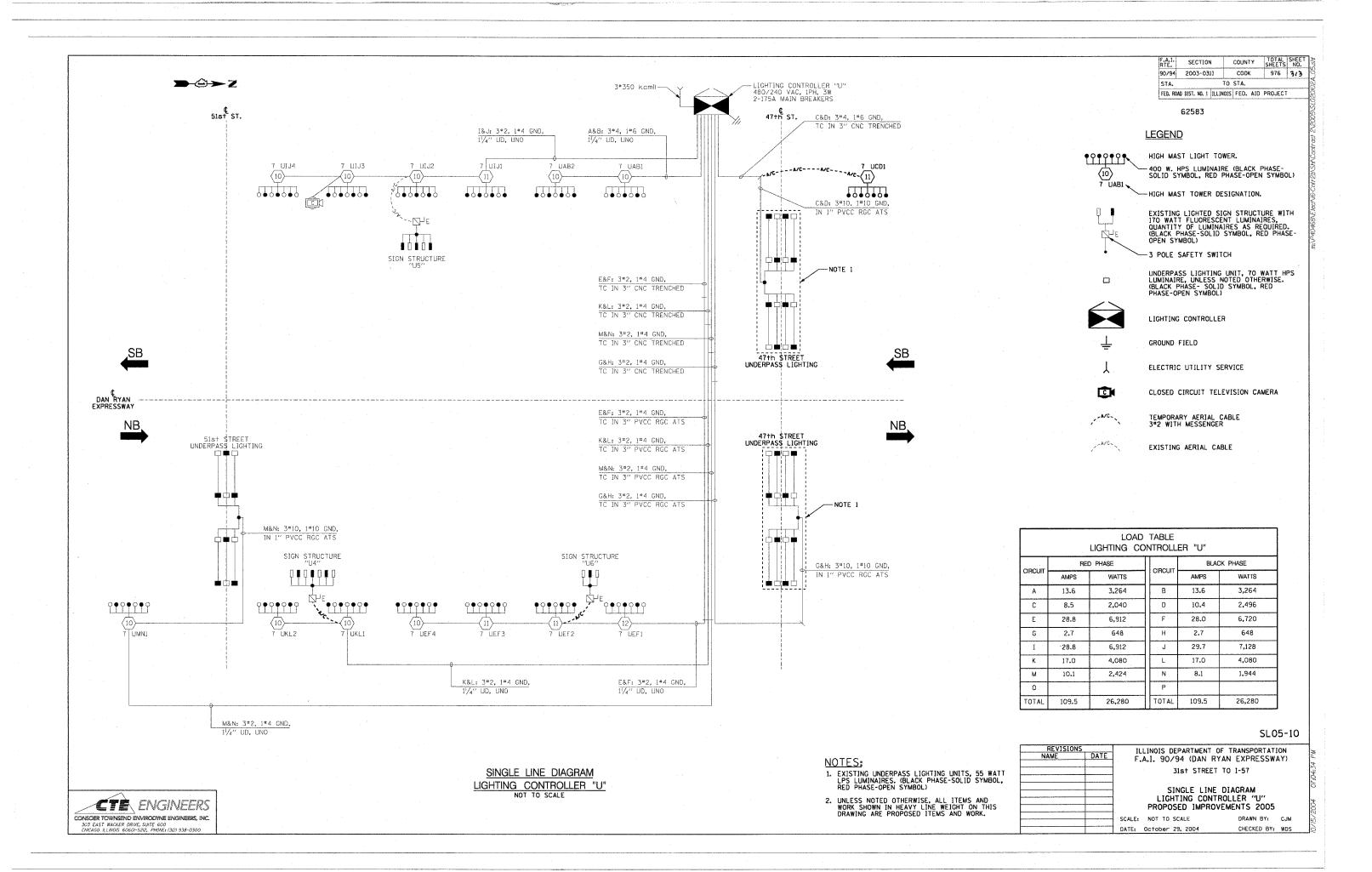
SL05-08

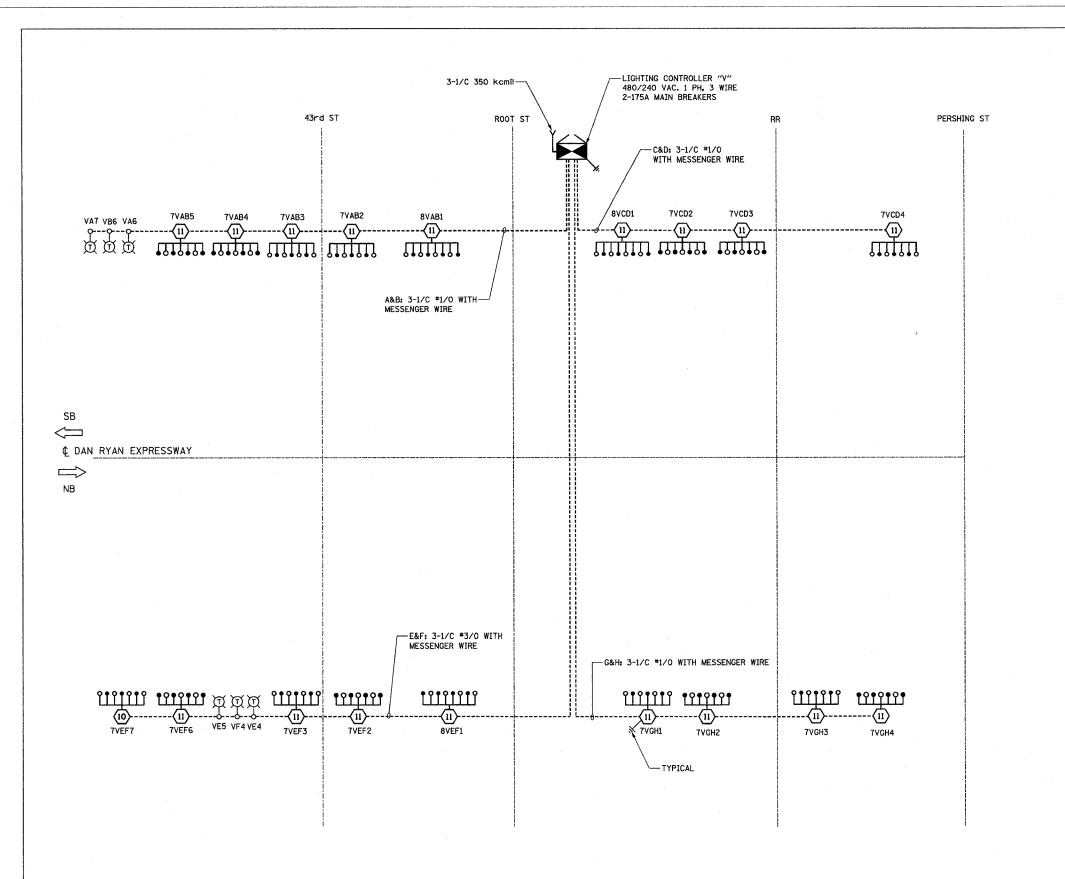
ILLINOIS DEPARTMENT OF TRANSPORTATION F.A.I. 90/94 (DAN RYAN EXPRESSWAY) 31st STREET TO I-57

SINGLE LINE DIAGRAM LIGHTING CONTROLLER "T" PROPOSED IMPROVEMENTS 2005

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







F.A.I. RTE.	SECTIO)N	COUNTY	TOTAL SHEETS	SHEET NO.
94/90	2003-03	11	COOK	976	314
STA.		TO	STA.		
CCD DOA	n nict No	TI I THOTE	CED A	ID DOO IECT	

62583

→ 🗢 Z

LEGEND:

HIGH MAST LIGHT TOWER

~400W. HPS LUMINAIRE (BLACK PHASE- SOLID SYMBOLS,

RED PHASE-OPEN SYMBOL) HIGH MAST TOWER DESIGNATION

7VCD1

LIGHTING CONTROLLER



GROUND FIELD

ELECTRIC UTILITY SERVICE

HPS LUMINAIRE

TEMPORARY WOOD POLE, 90 FT. WITH 15 FT. MAST ARM AND 400W

AERIAL CABLE, 3#1/0 WITH MESSENGER CABLE UNLESS OTHERWISE INDICATED

LOAD TABLE LIGHTING CONTROLLER "V"							
	RED I	PHASE		BLACK PHAS			
CIRCUIT	AMPS	WATTS	CIRCUIT	AMPS	WATTS		
A	40.00	7600	В	38.00	7600		
С	28.00	6000	D	30.00	6000		
E	40.00	7600	F	38.00	7600		
G	28.00	5600	Н	28.00	5600		
I	SPARE	SPARE	J	SPARE	SPARE		
К	SPARE	SPARE	L	SPARE	SPARE		
М	SPARE	SPARE	N	SPARE	SPARE		
0	SPARE	SPARE	Р	SPARE	SPARE		
TOTAL	136.00A	27,200	TOTAL	134.00A	26,800		

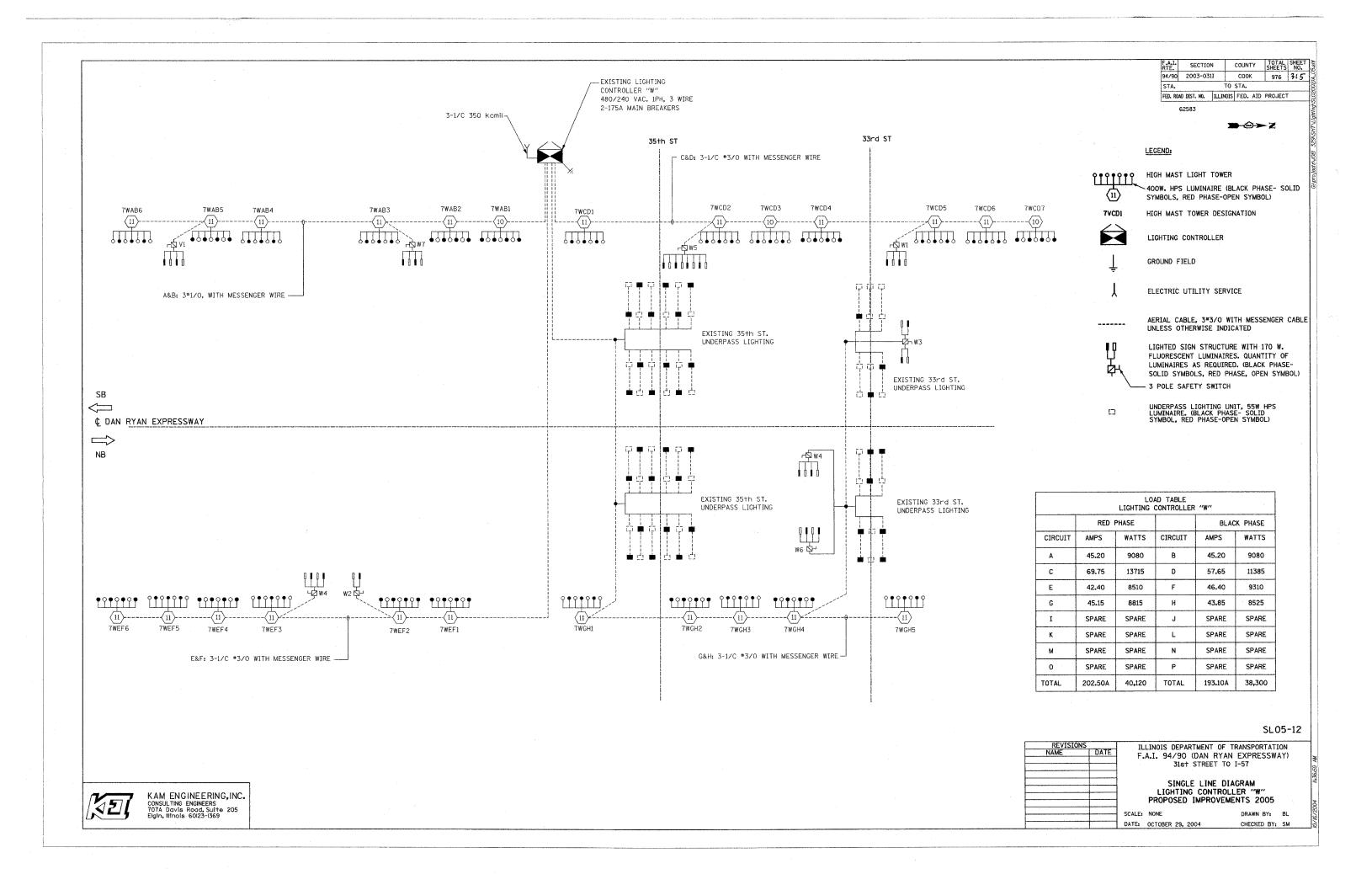
SL05-11

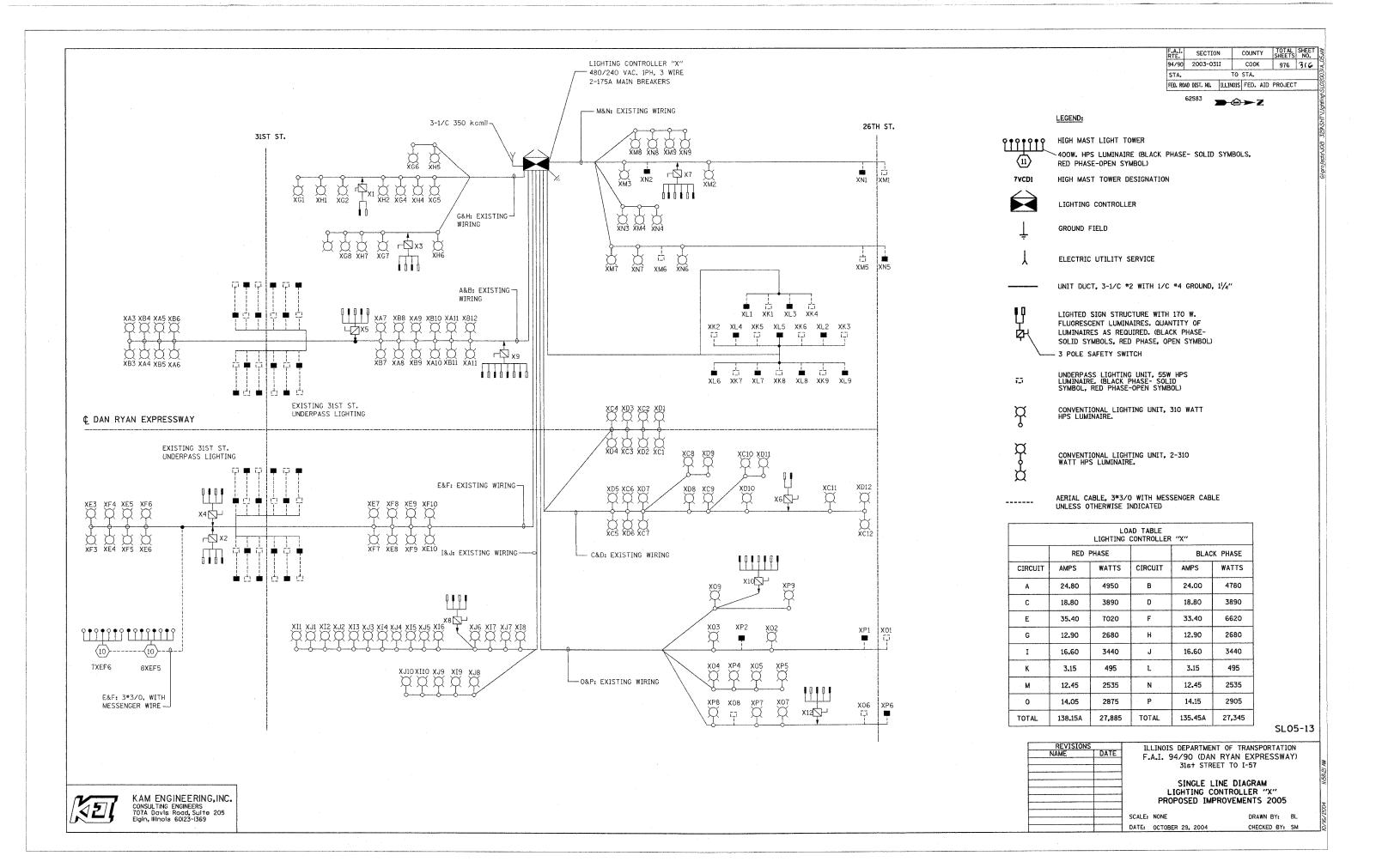
CHECKED BY: SM

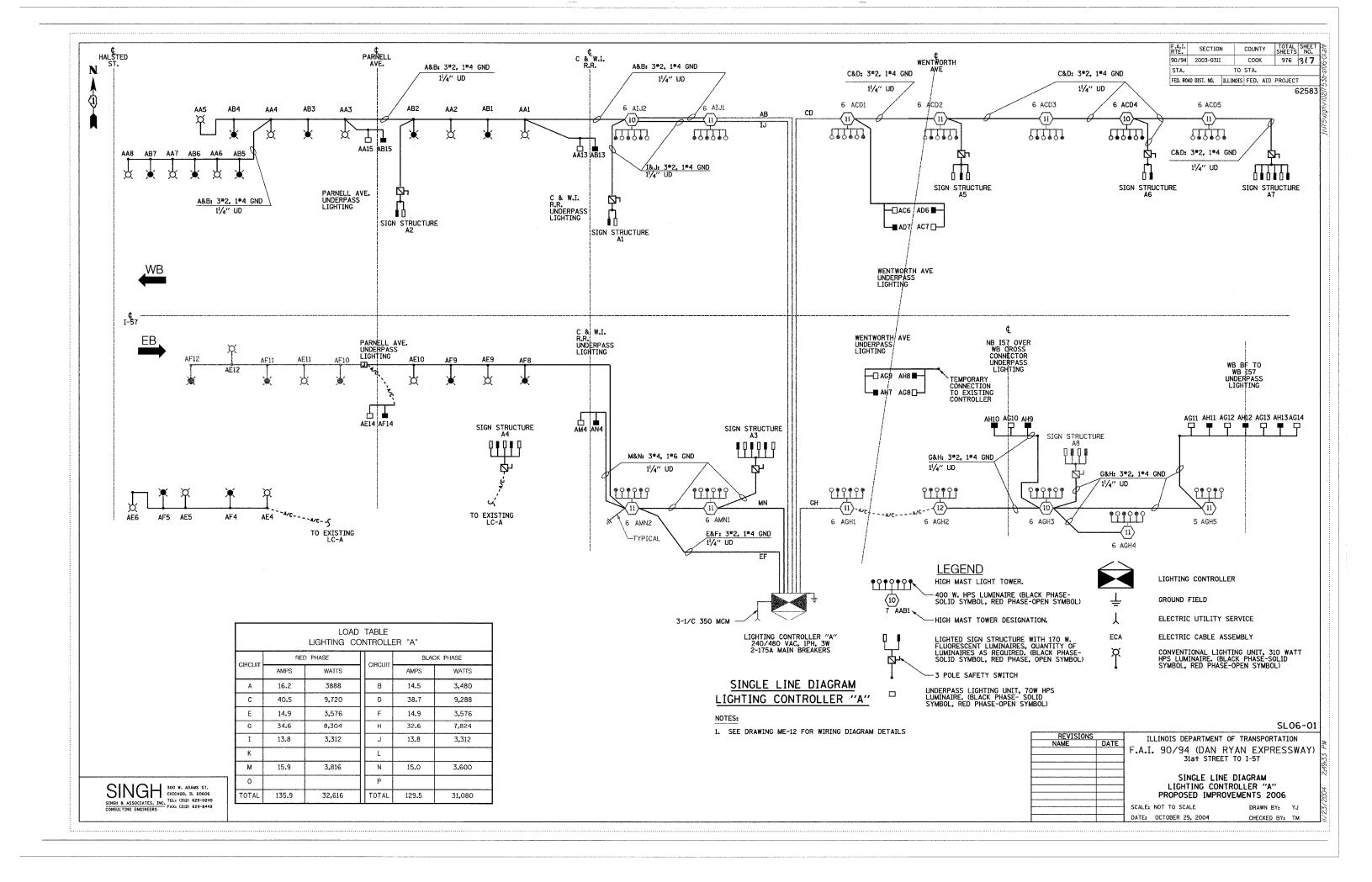
REVISIONS NAME E	DATE	ILLINOIS DEPARTMENT OF TRANSPORTATION F.A.I. 94/90 (DAN RYAN EXPRESSWAY)						
			31st STREET TO	I-57				
			SINGLE LINE DI LIGHTING CONTROL					
		PROPOSED IMPROV						
	Si	CALE:	NONE	DRAWN BY:	BL			

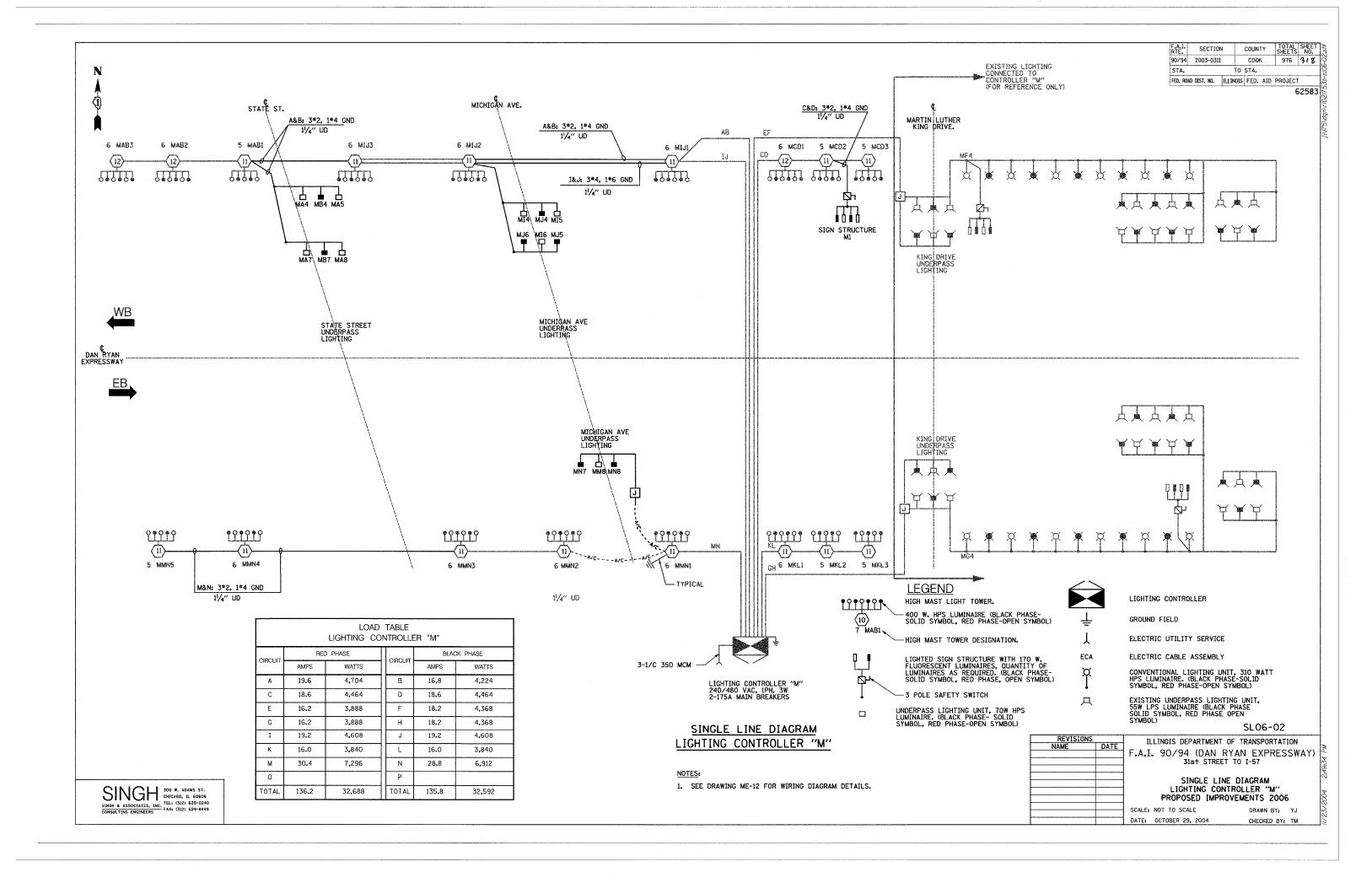
DATE: OCTOBER 29, 2004

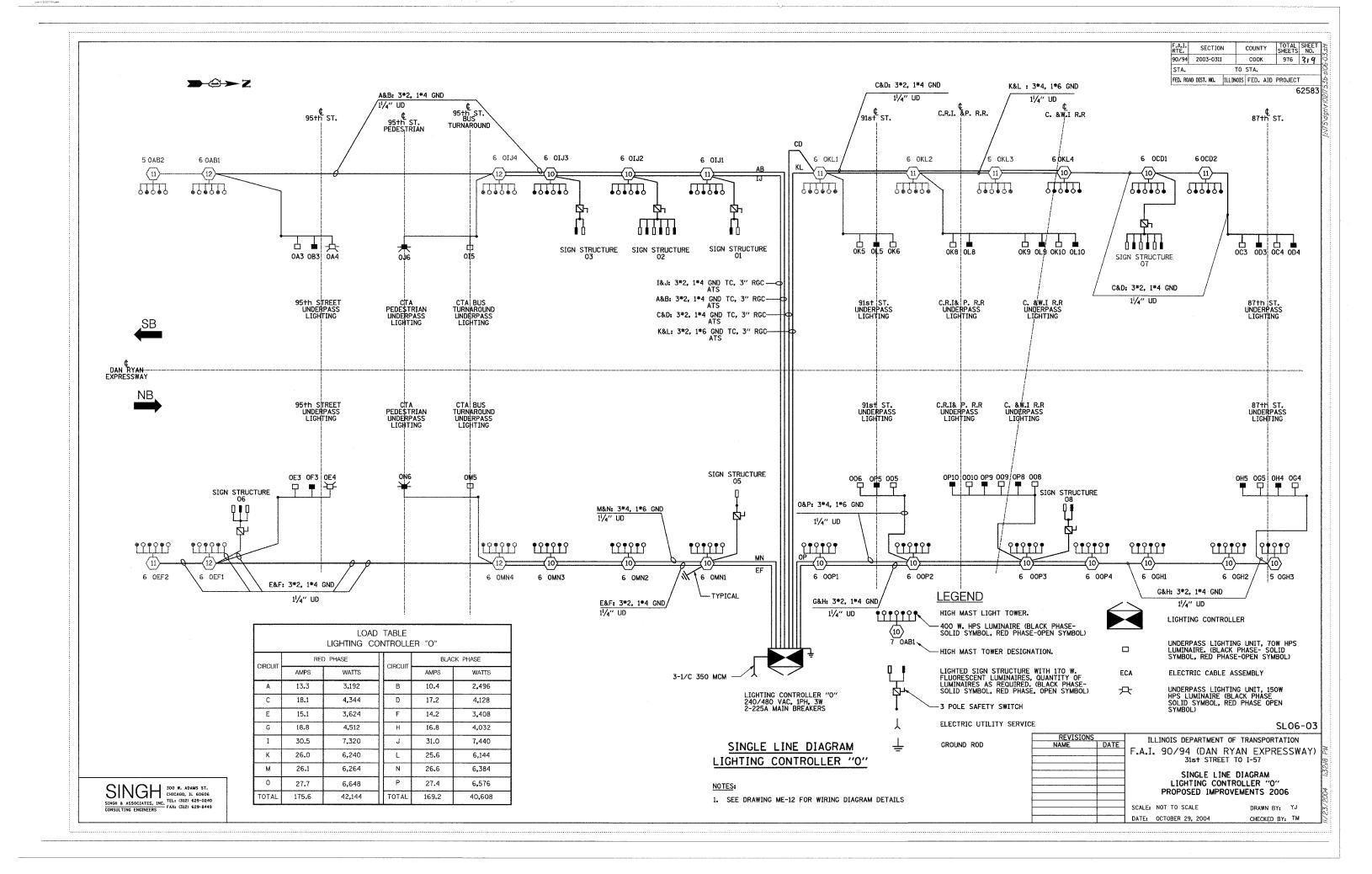
KAM ENGINEERING, INC. CONSULTING ENGINEERS 707A Davis Road, Suite 205 Elgin, Illinois 60123-1369

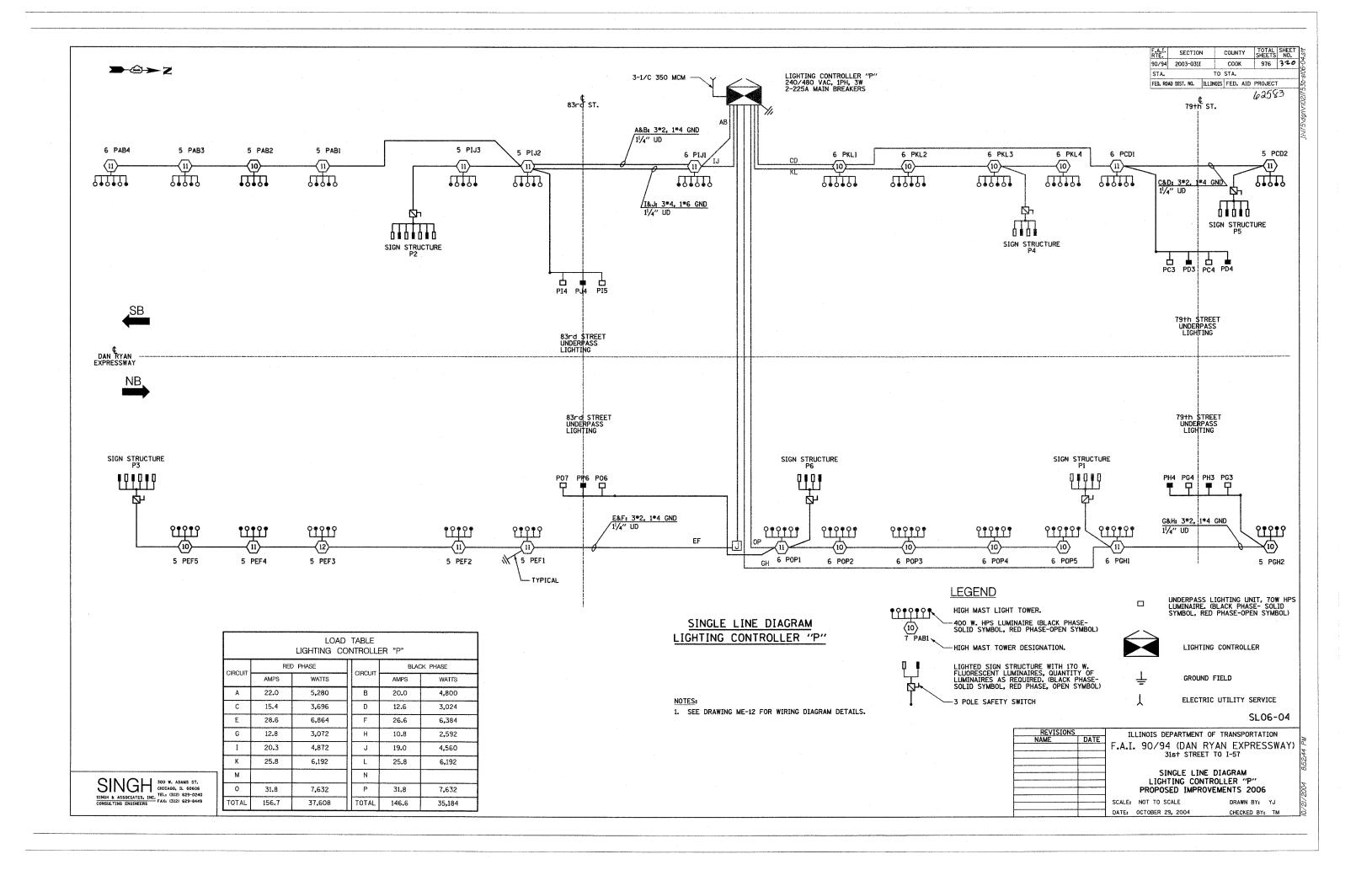


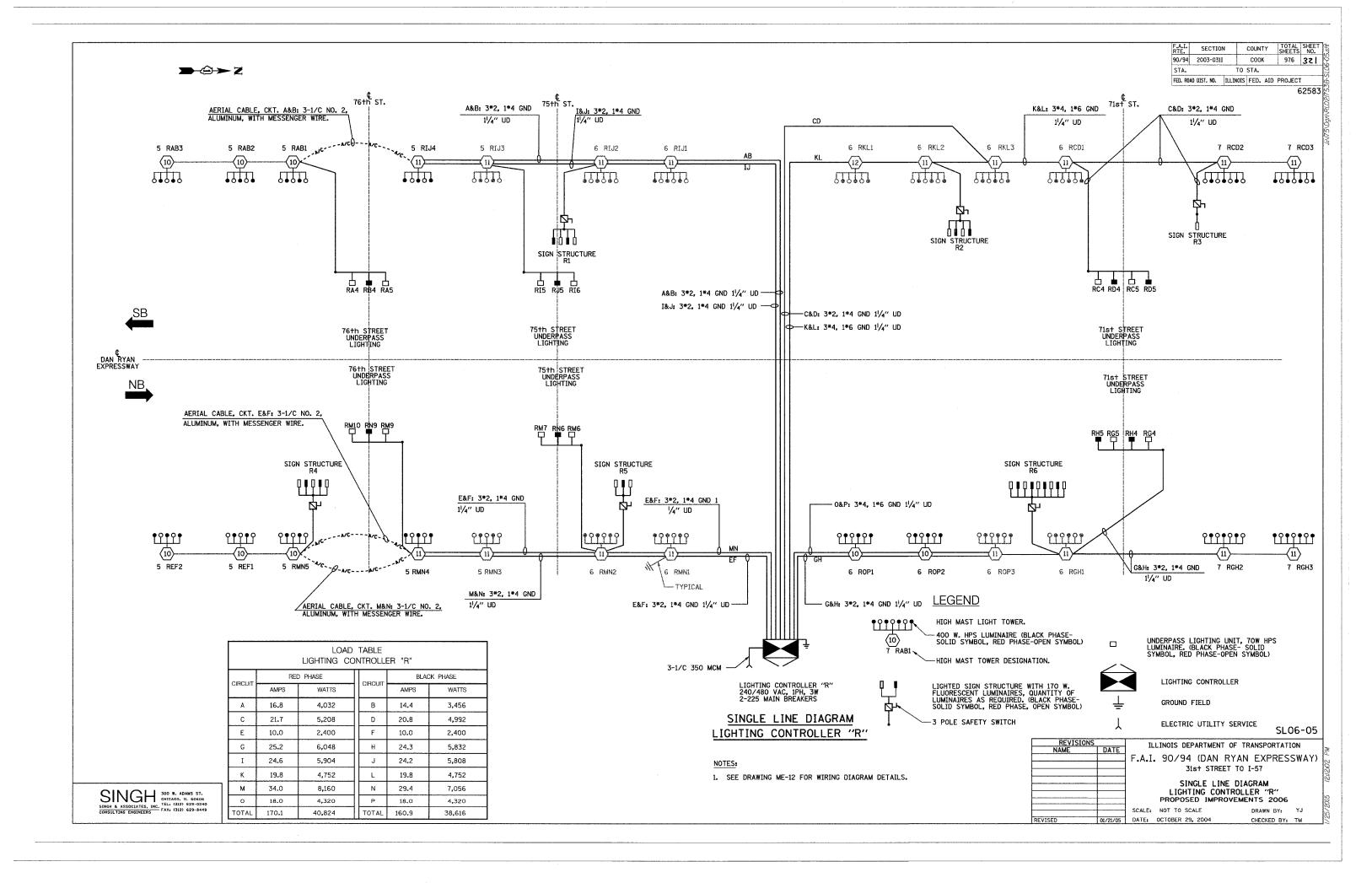


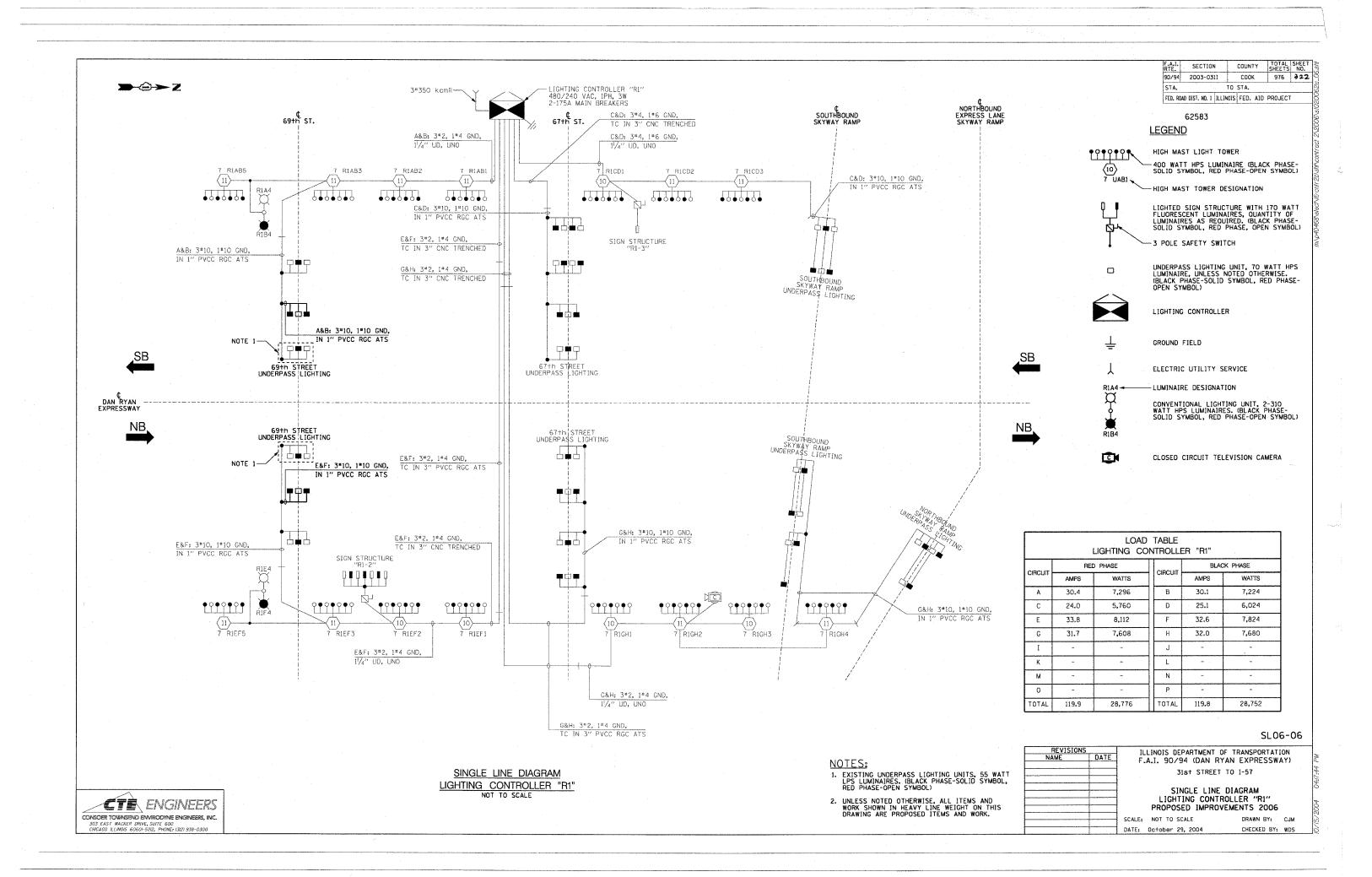


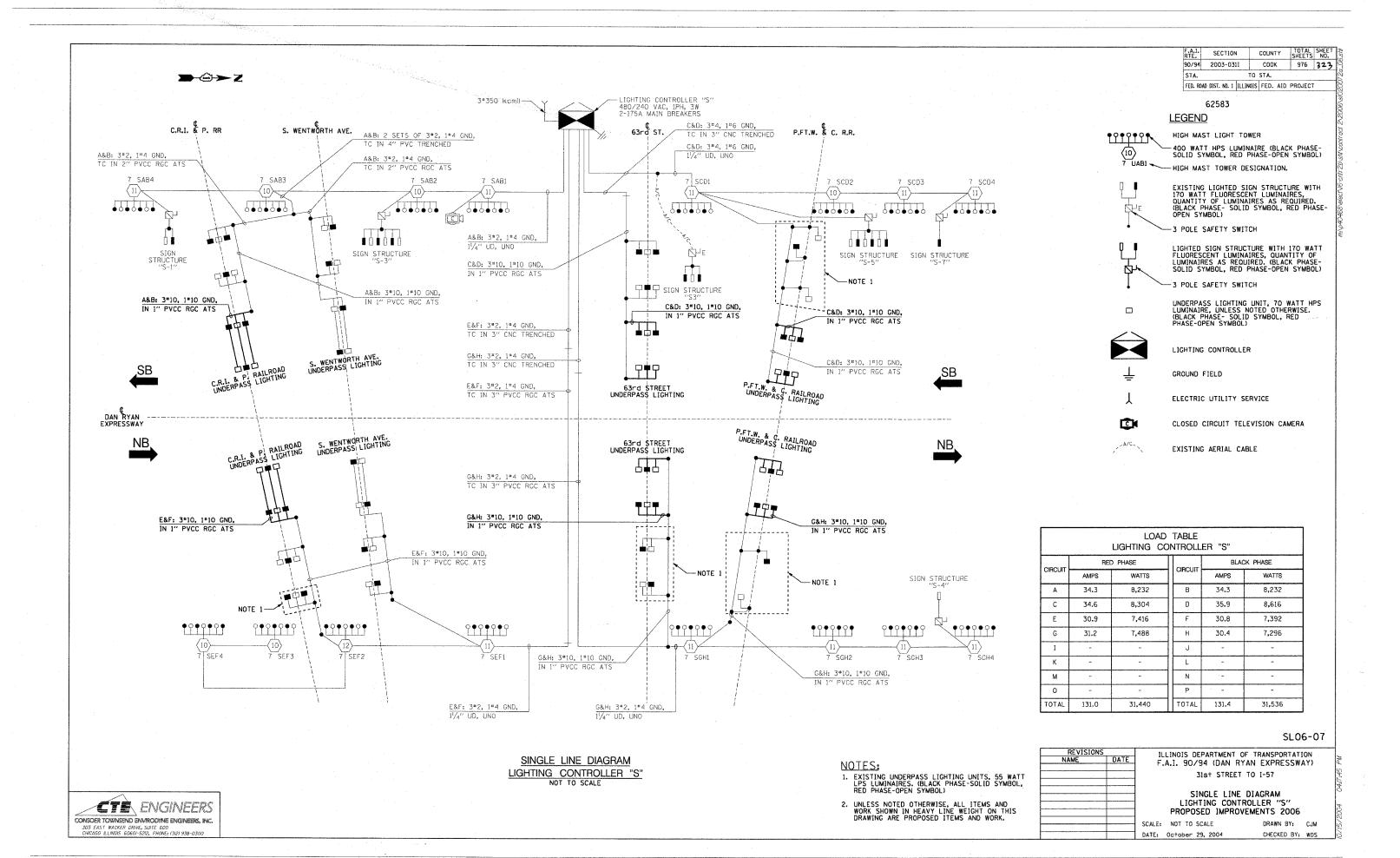


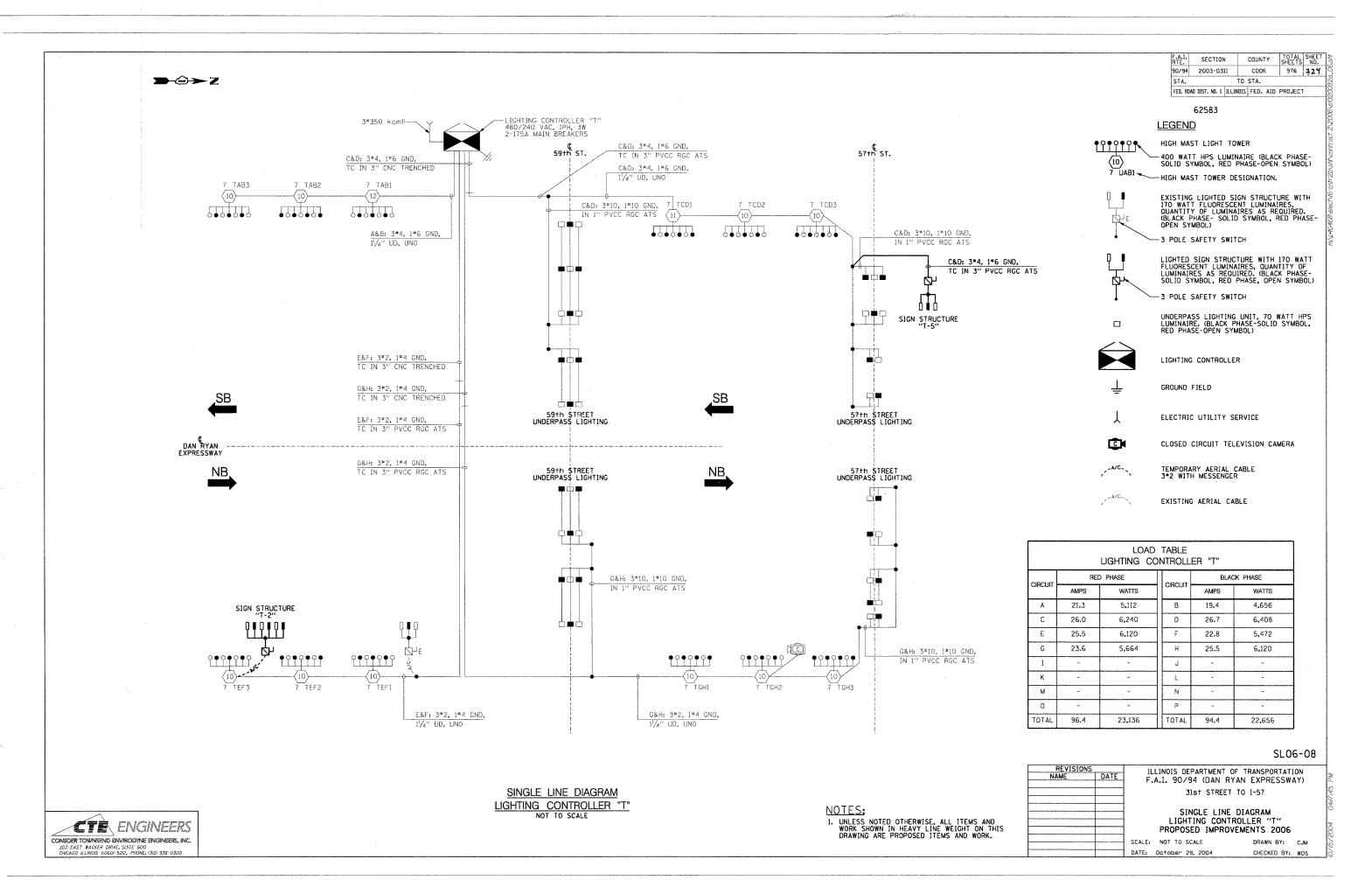


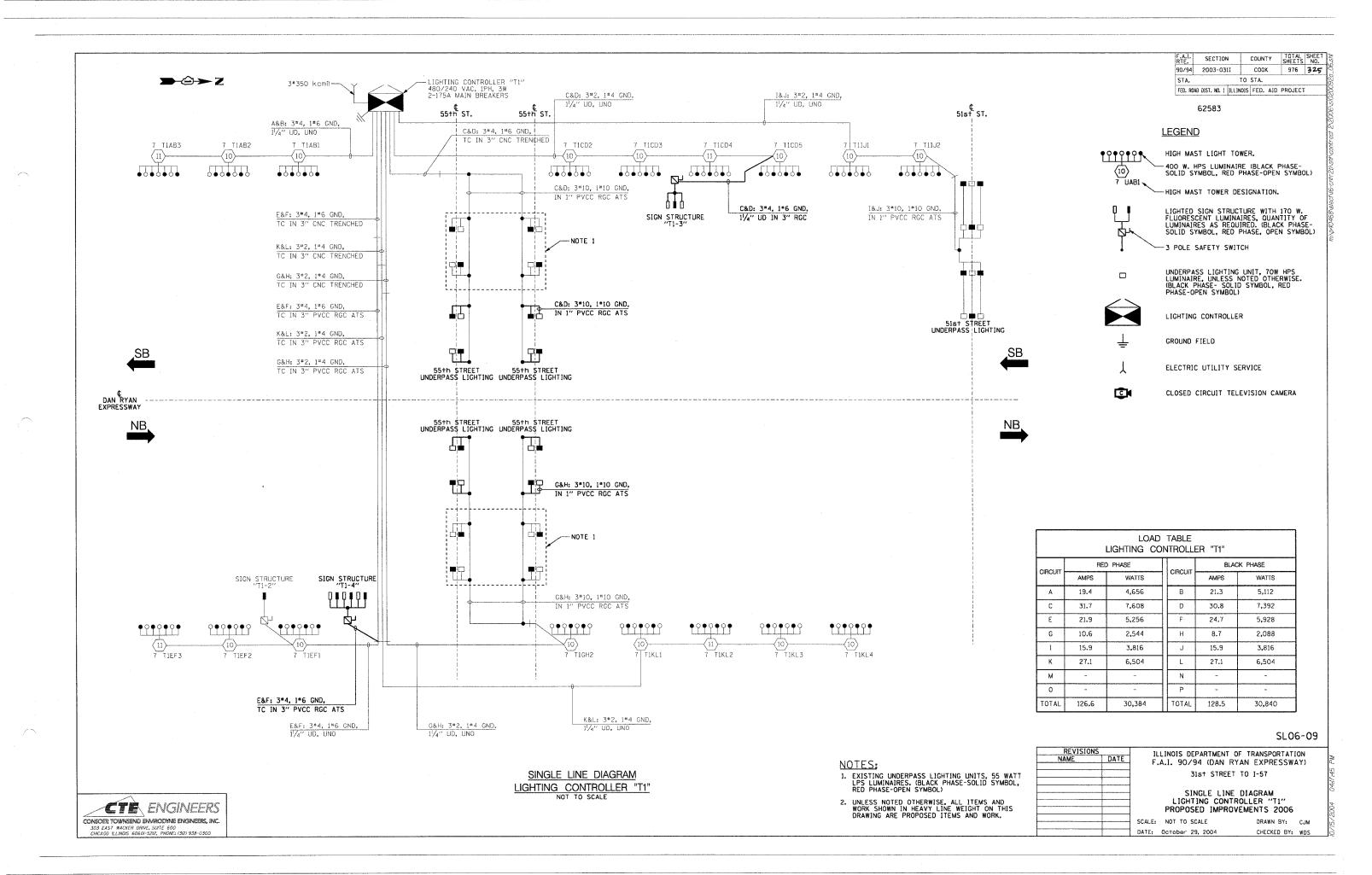


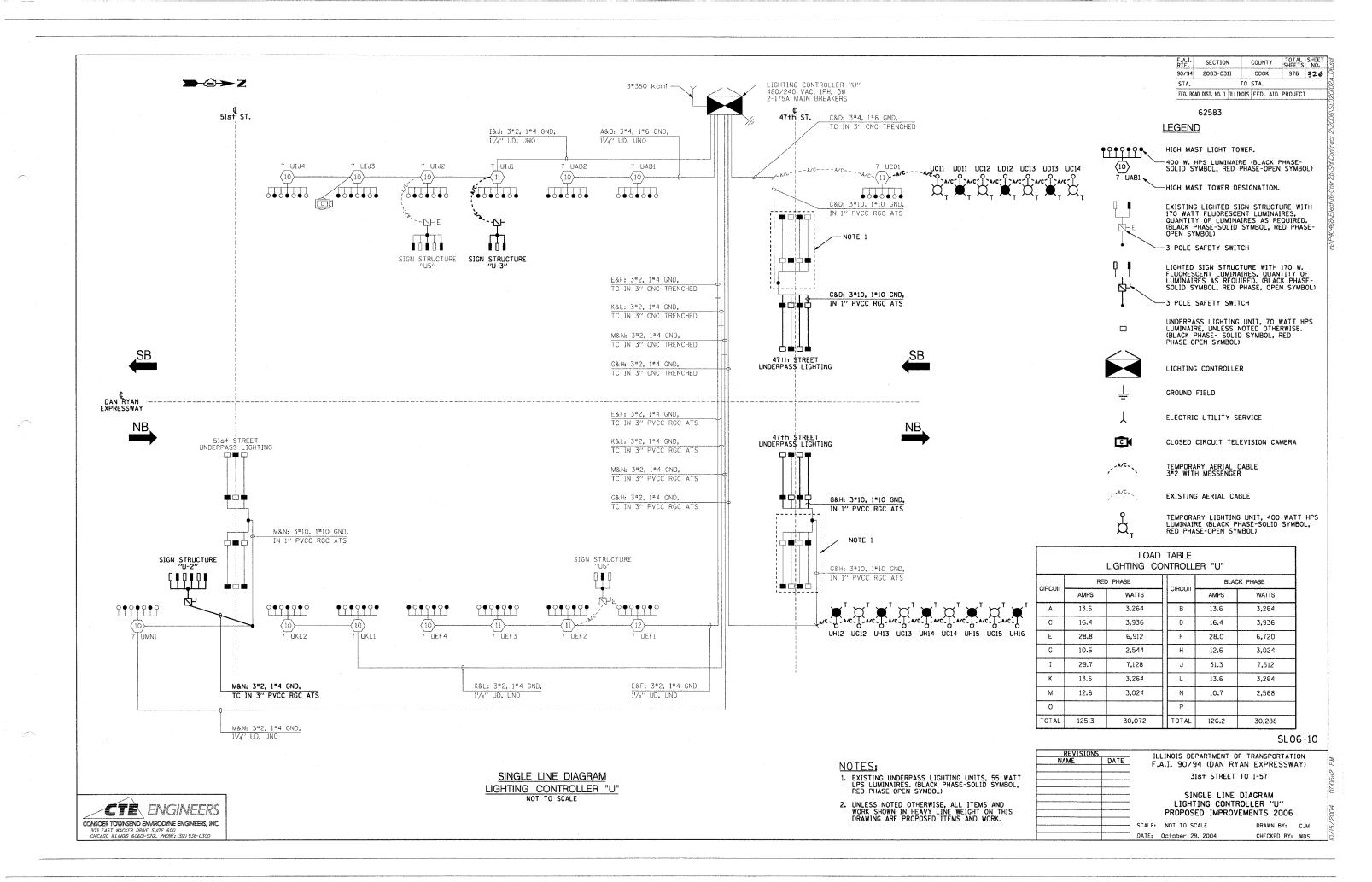












62583

LEGEND:

> ② > Z

HIGH MAST LIGHT TOWER

400W. HPS LUMINAIRE (BLACK PHASE- SOLID SYMBOLS, RED PHASE-OPEN SYMBOL)

HIGH MAST TOWER DESIGNATION



LIGHTING CONTROLLER



GROUND FIELD



ELECTRIC UTILITY SERVICE

ď

TEMPORARY WOOD POLE, 90 FT. WITH 15 FT. MAST ARM AND 400W HPS LUMINAIRE

HPS LUMINAIK

AERIAL CABLE, 3*1/O WITH MESSENGER CABLE UNLESS OTHERWISE NOTED

<u>C1</u>

LIGHTED SIGN STRUCTURE WITH 170 W.
FLUORESCENT LUMINAIRES. QUANTITY OF
LUMINAIRES AS REQUIRED. (BLACK PHASESOLID SYMBOLS, RED PHASE, OPEN SYMBOL)

3 POLE SAFETY SWITCH

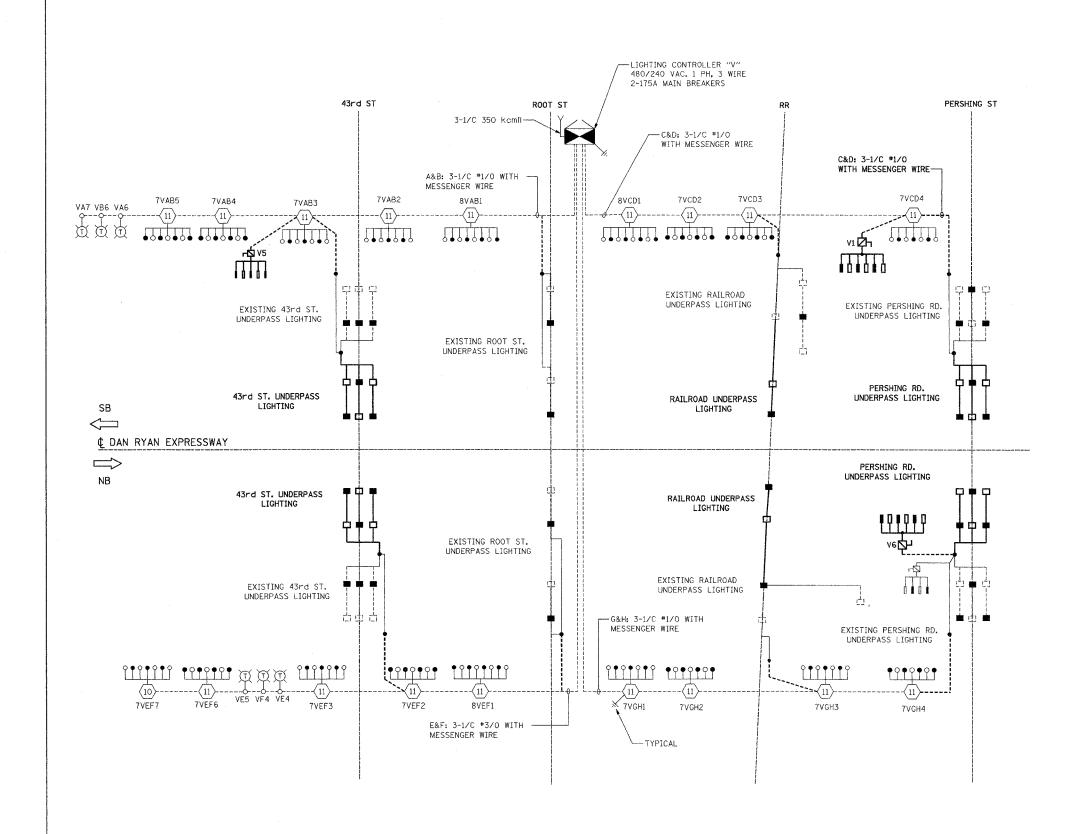
UNDERPASS LIGHTING UNIT, 70W HPS LUMINAIRE, (BLACK PHASE- SOLID SYMBOL, RED PHASE-OPEN SYMBOL)

UNDERPASS LIGHTING UNIT, 55W HPS LUMINAIRE. (BLACK PHASE- SOLID SYMBOL, RED PHASE-OPEN SYMBOL)

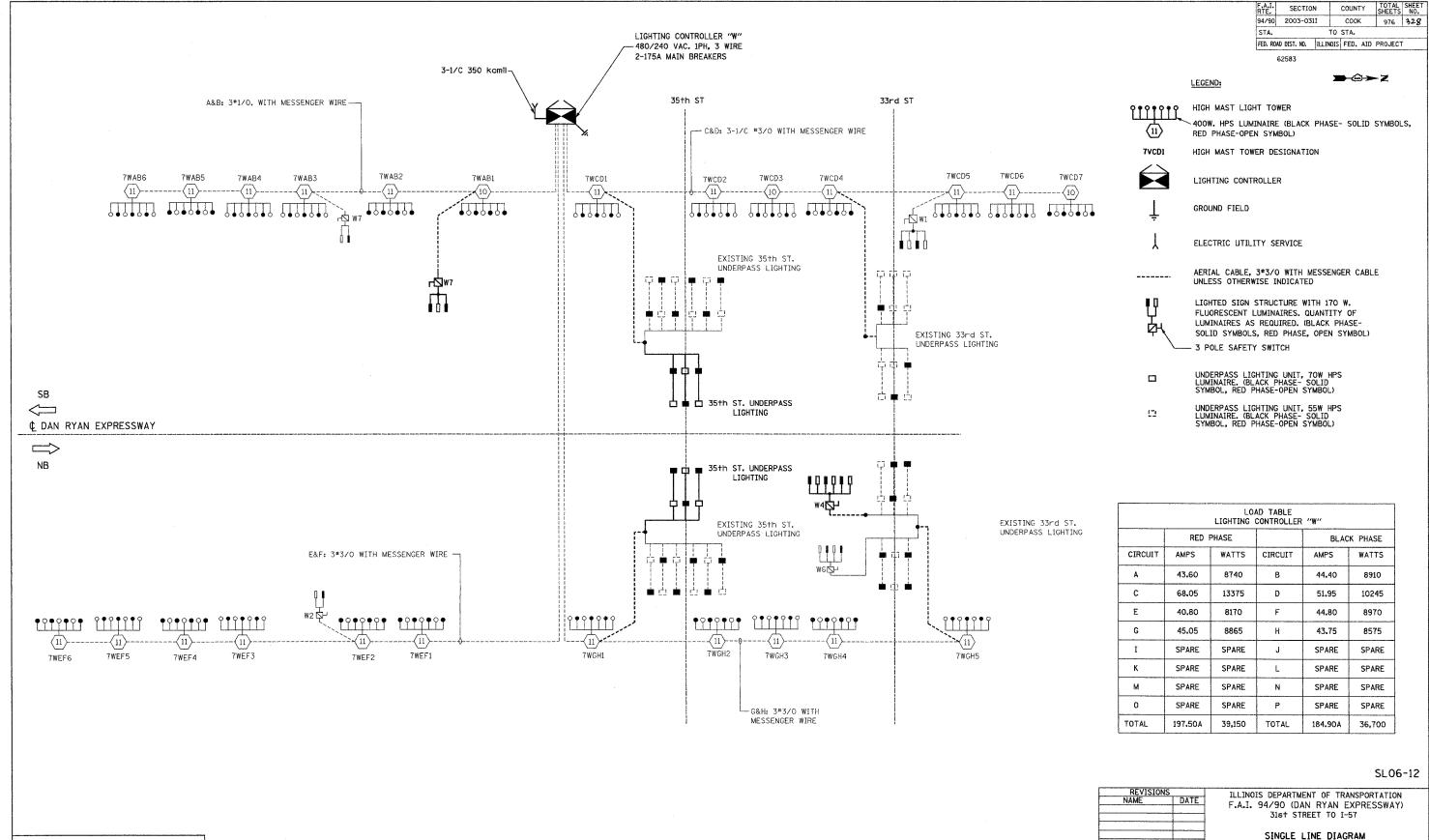
LOAD TABLE LIGHTING CONTROLLER "Y"							
	RED (PHASE		BLACK PHASE			
CIRCUIT	AMPS	WATTS	CIRCUIT	AMPS	WATTS		
A	44.55	8825	В	43.35	8595		
С	34.10	6720	D	35.40	7010		
E	42.95	8485	F	40.95	8085		
G	35.35	7005	н	35.00	6950		
I	SPARE	SPARE	J	SPARE	SPARE		
K	SPARE	SPARE	L	SPARE	SPARE		
М	SPARE	SPARE	N	SPARE	SPARE		
О	SPARE	SPARE	Р	SPARE	SPARE		
TOTAL	156.95A	31,035	TOTAL	154.70A	30,640		

SL06-11

REVISIONS DATE	F.A.I. 94/90	LINOIS DEPARTMENT OF TRANSPORTATION A.I. 94/90 (DAN RYAN EXPRESSWAY) 31st STREET TO I-57					
	LIGHTI	GLE LINE DIAGRAM ING CONTROLLER "V" D IMPROVEMENTS 2006					
	SCALE: NONE	DRAWN BY: E	3L				
	DATE: OCTOBER 29,	2004 CHECKED BY: S	SM .				



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



KAM ENGINEERING, INC.

CONSULTING ENGINEERS 707A Davis Road, Suite 205 Eigin, Illinois 60123-1369 16/2004 | 1143:20 AM

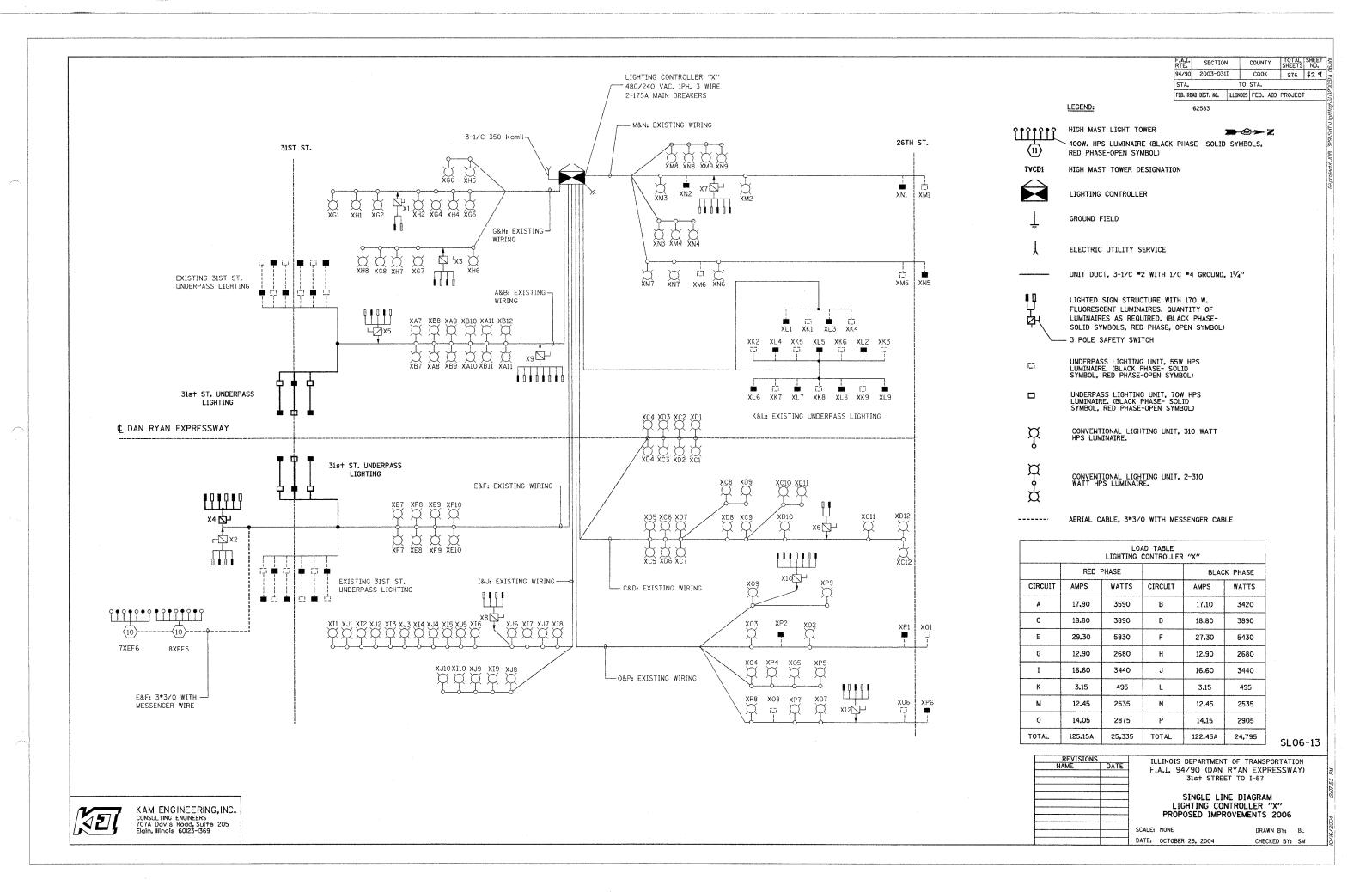
LIGHTING CONTROLLER "W"

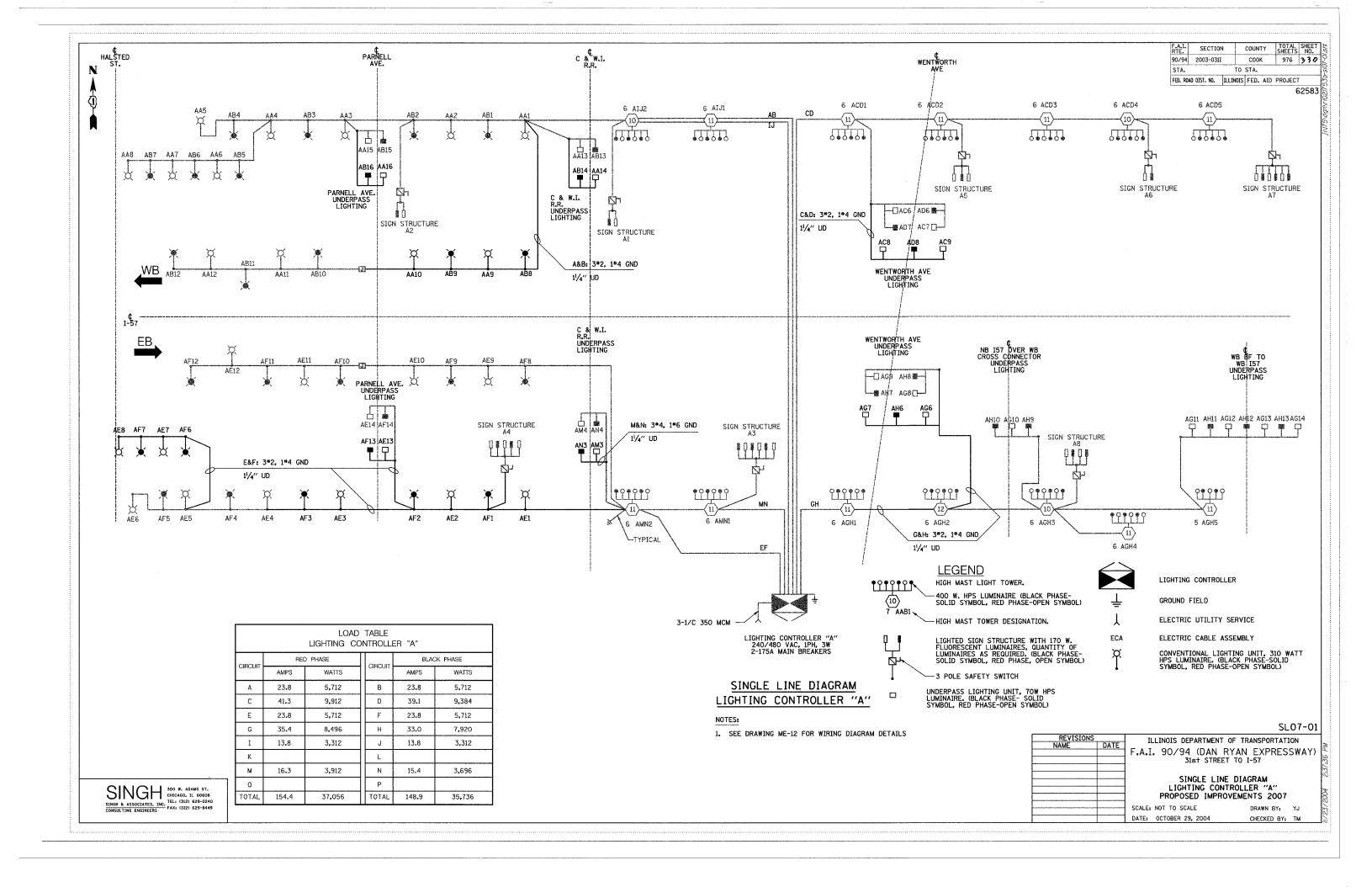
DATE: OCTOBER 29, 2004

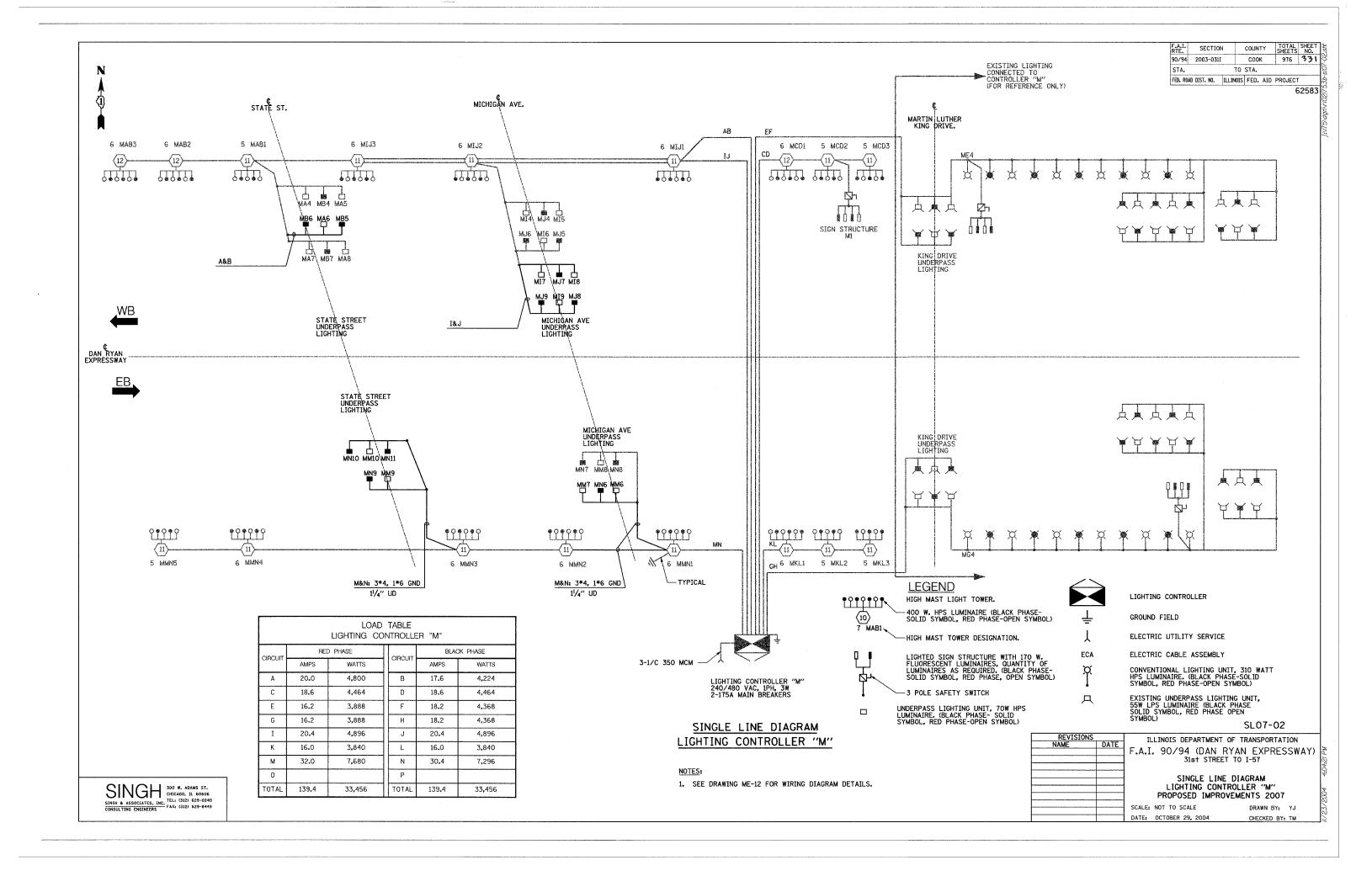
PROPOSED IMPROVEMENTS 2006

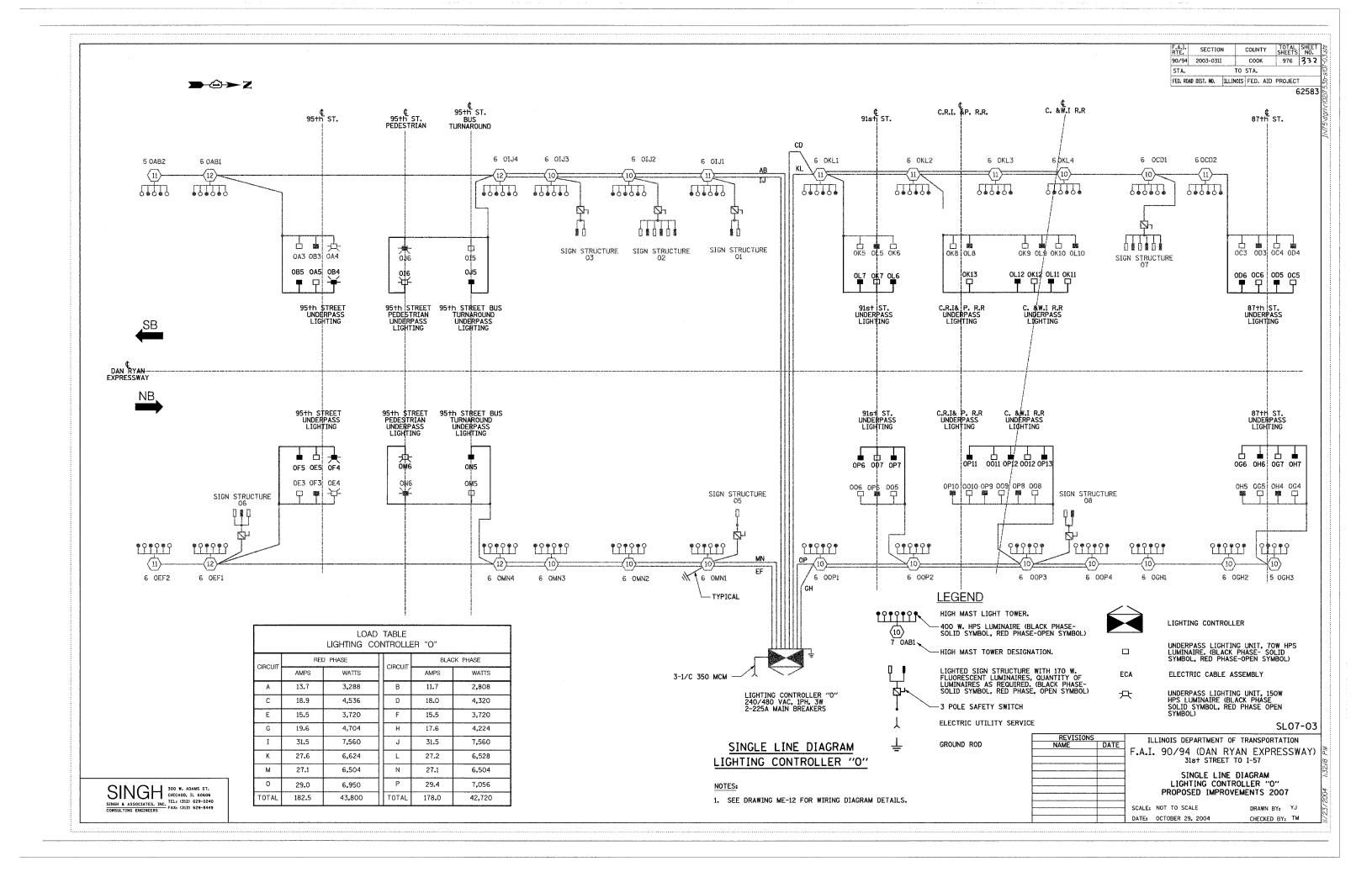
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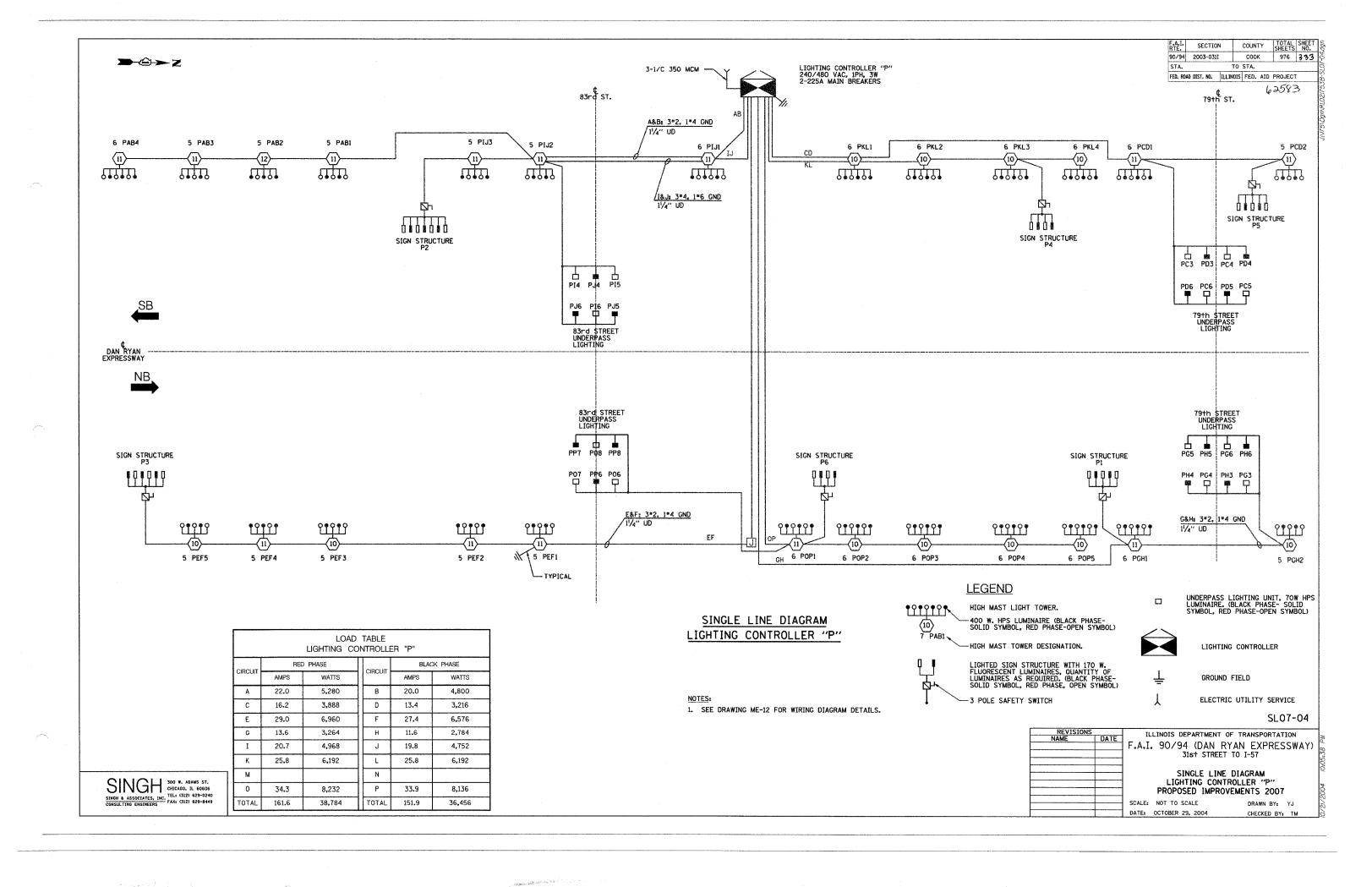
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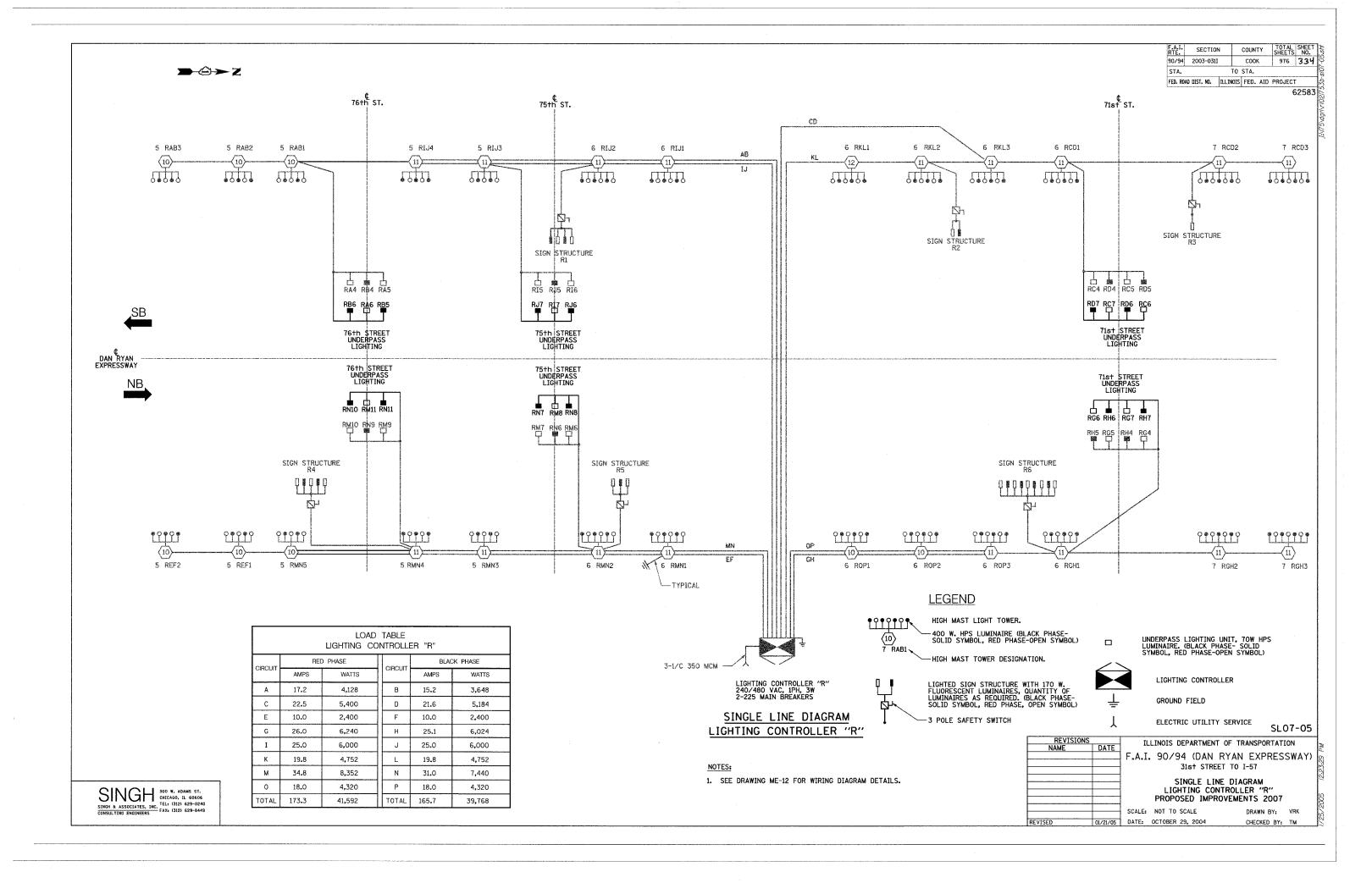


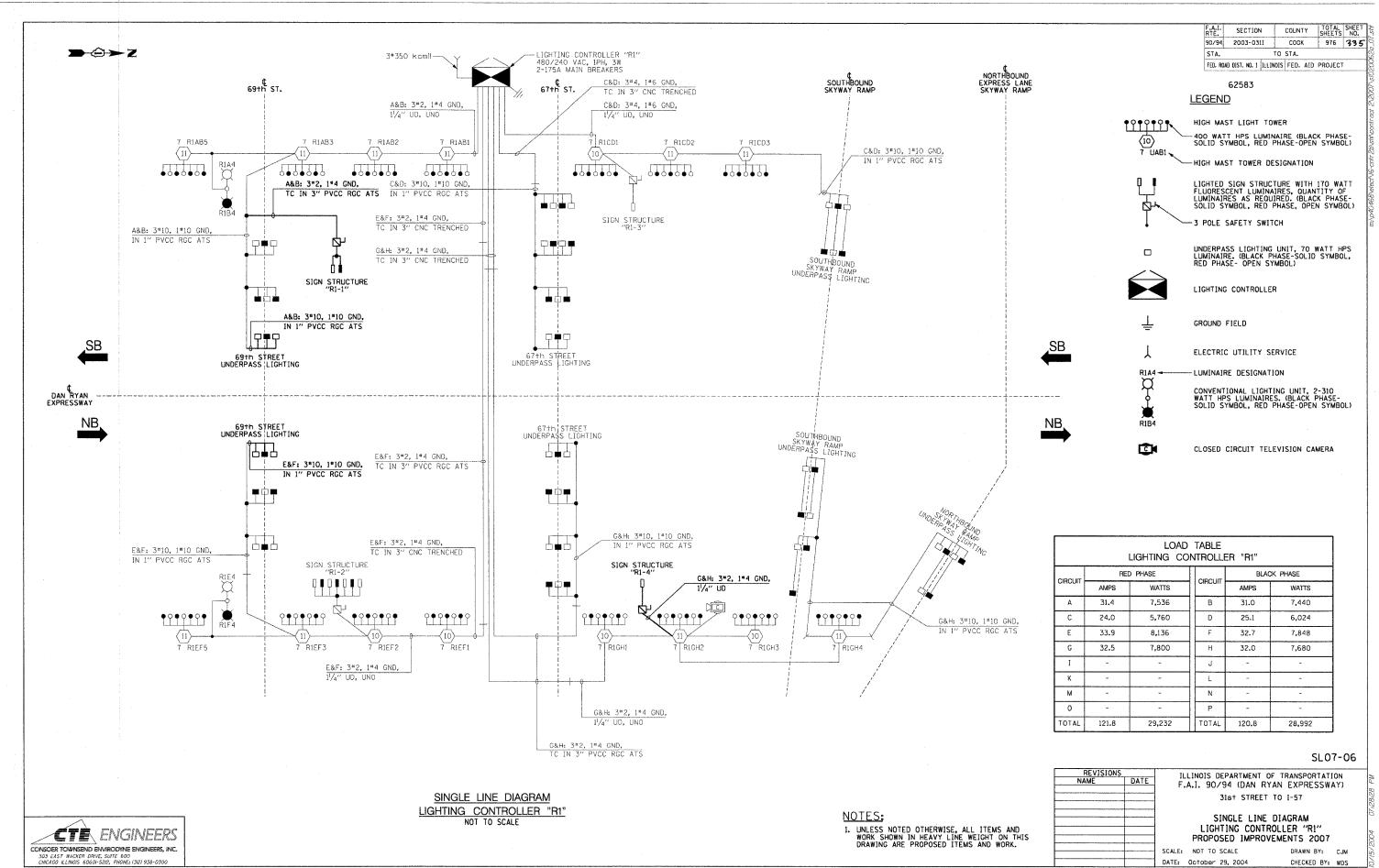


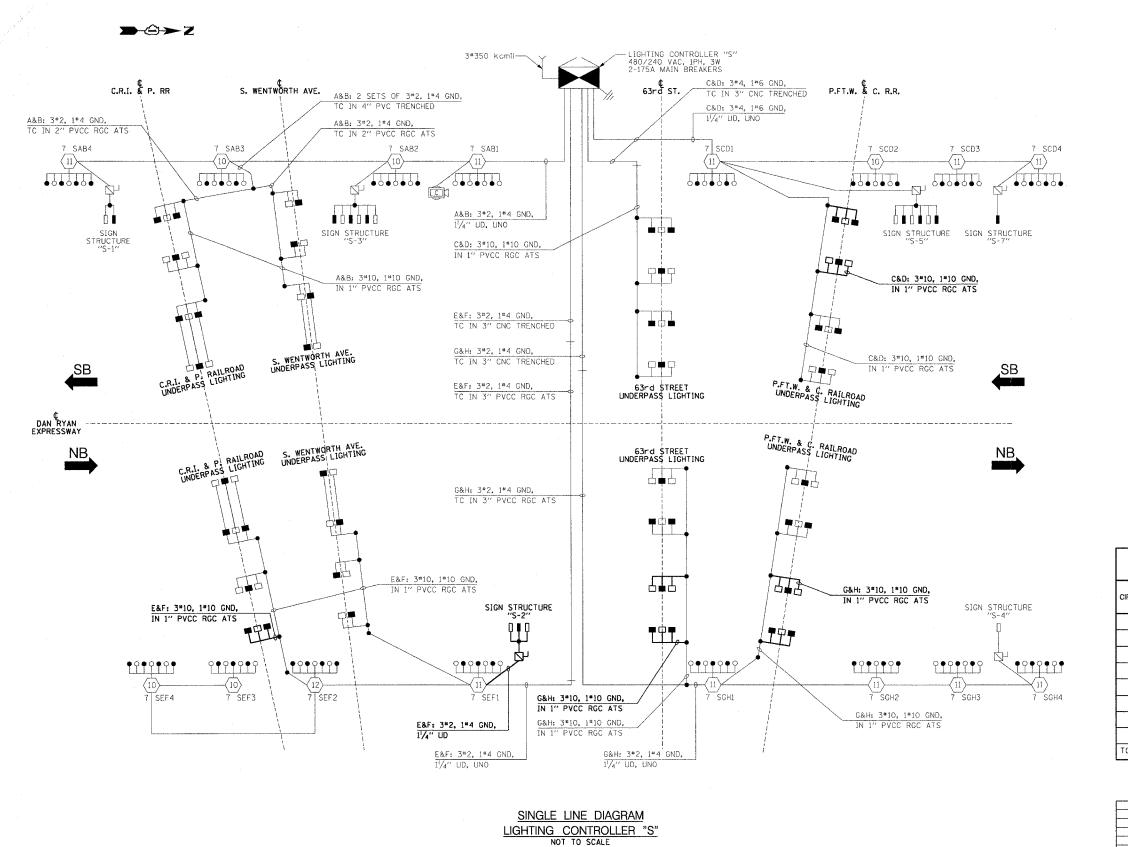












CTE ENGINEERS

CONSOER TOWNSEND ENVIRODINE ENGINEERS, INC. 303 EAST WACKER DRIVE, SUITE 600 CHICAGO ILLIWOIS 60601-5212, PHONE; (312) 938-0300

COUNTY TOTAL SHEE NO. SECTION COOK 976 336 90/94 2003-0311 STA. TO STA. FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT

62583

LEGEND

111111

HIGH MAST LIGHT TOWER

400 WATT HPS LUMINAIRE (BLACK PHASE-SOLID SYMBOL, RED PHASE-OPEN SYMBOL) 7 UABI HIGH MAST TOWER DESIGNATION.



LIGHTED SIGN STRUCTURE WITH 170 WATT FLUDRESCENT LUMINAIRES, QUANTITY OF LUMINAIRES AS REQUIRED. (BLACK PHASE-SOLID SYMBOL, RED PHASE-OPEN SYMBOL)

-3 POLE SAFETY SWITCH



UNDERPASS LIGHTING UNIT, 70 WATT HPS LUMINAIRE. (BLACK PHASE- SOLID SYMBOL, RED PHASE-OPEN SYMBOL)



LIGHTING CONTROLLER



GROUND FIELD



ELECTRIC UTILITY SERVICE



CLOSED CIRCUIT TELEVISION CAMERA

	~~~~~	***************************************	
LC	AD	TABLE	
LIGHTING	CO	NTROLLER	"S"

		LIGITING OC	MINOLL	L-11 U		
OLDOV NET	RE	) PHASE	CIRCUIT	BLACK PHASE		
CIRCUIT	AMPS WATTS	CIRCUIT	AMPS	WATTS		
Α	34.3	8,232	В	34.3	8,232	
С	34.2	8,208	D	35.0	8,400	
E	32.6	7,824	F	31.8	7,632	
G	32.5	7,800	н	31.7	7,608	
Ι	-	-	J	-	-	
К	-	-	L	-		
М	-	-	N	-	-	
0	-		Р	-	-	
TOTAL	133.6	32,064	TOTAL	132.8	31,872	

SL07-07

REVISIONS NAME

NOTES:

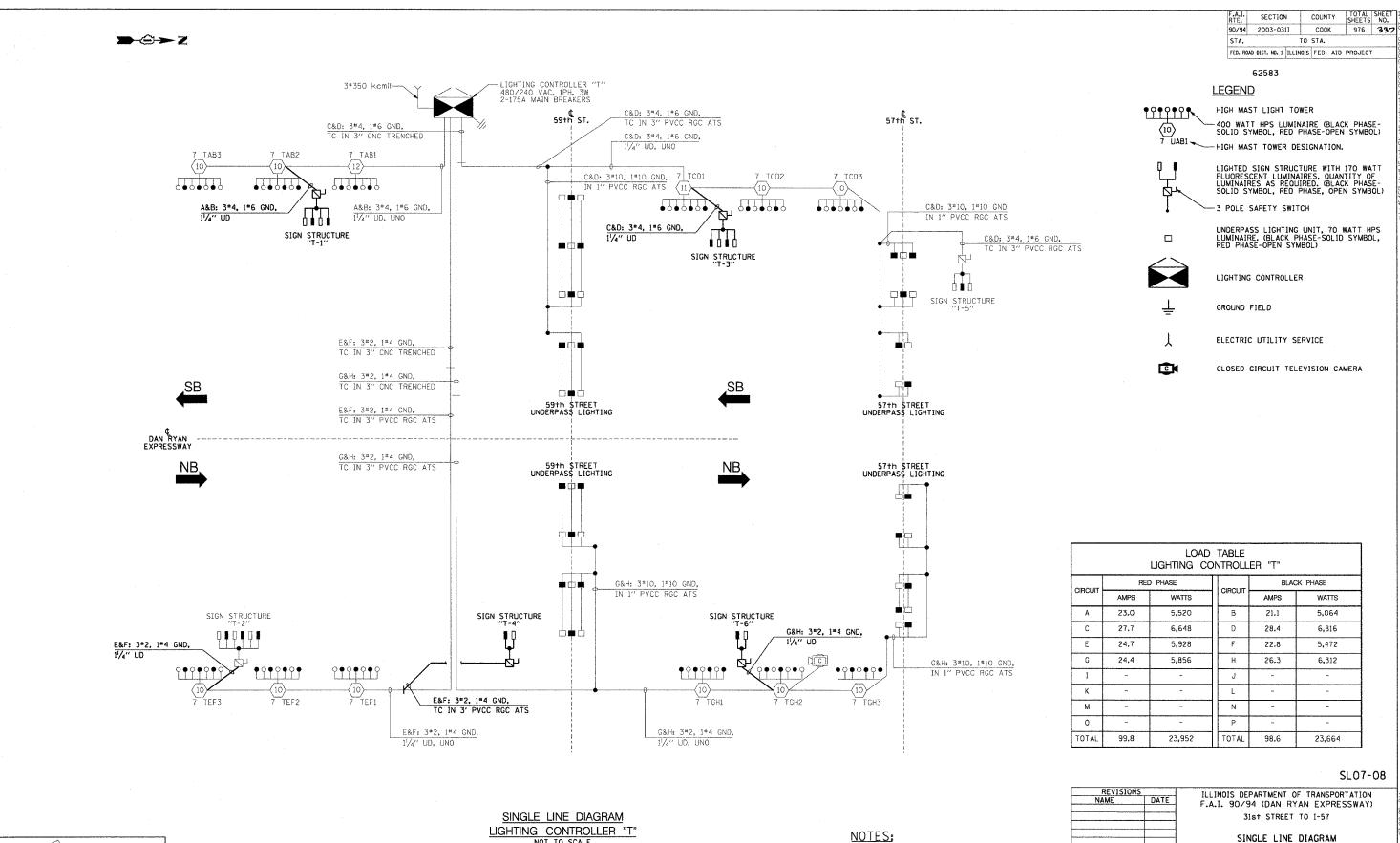
1. UNLESS NOTED OTHERWISE, ALL ITEMS AND WORK SHOWN IN HEAVY LINE WEIGHT ON THIS DRAWING ARE PROPOSED ITEMS AND WORK.

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

SINGLE LINE DIAGRAM LIGHTING CONTROLLER "S" PROPOSED IMPROVEMENTS 2007

SCALE: NOT TO SCALE DATE: October 29, 2004

DRAWN BY: CJM CHECKED BY: WDS



**CTE**\ ENGINEERS

CONSOER TOWNSEND ENVIRODMNE ENGINEERS, INC. 303 EAST WACKER DRIVE, SUITE 600 CHICAGO ILLINOIS 60601-5212, PHONE: (312) 938-0300 1. UNLESS NOTED OTHERWISE, ALL ITEMS AND WORK SHOWN IN HEAVY LINE WEIGHT ON THIS DRAWING ARE PROPOSED ITEMS AND WORK.

2004 07:28:28 PM

DRAWN BY: CJM

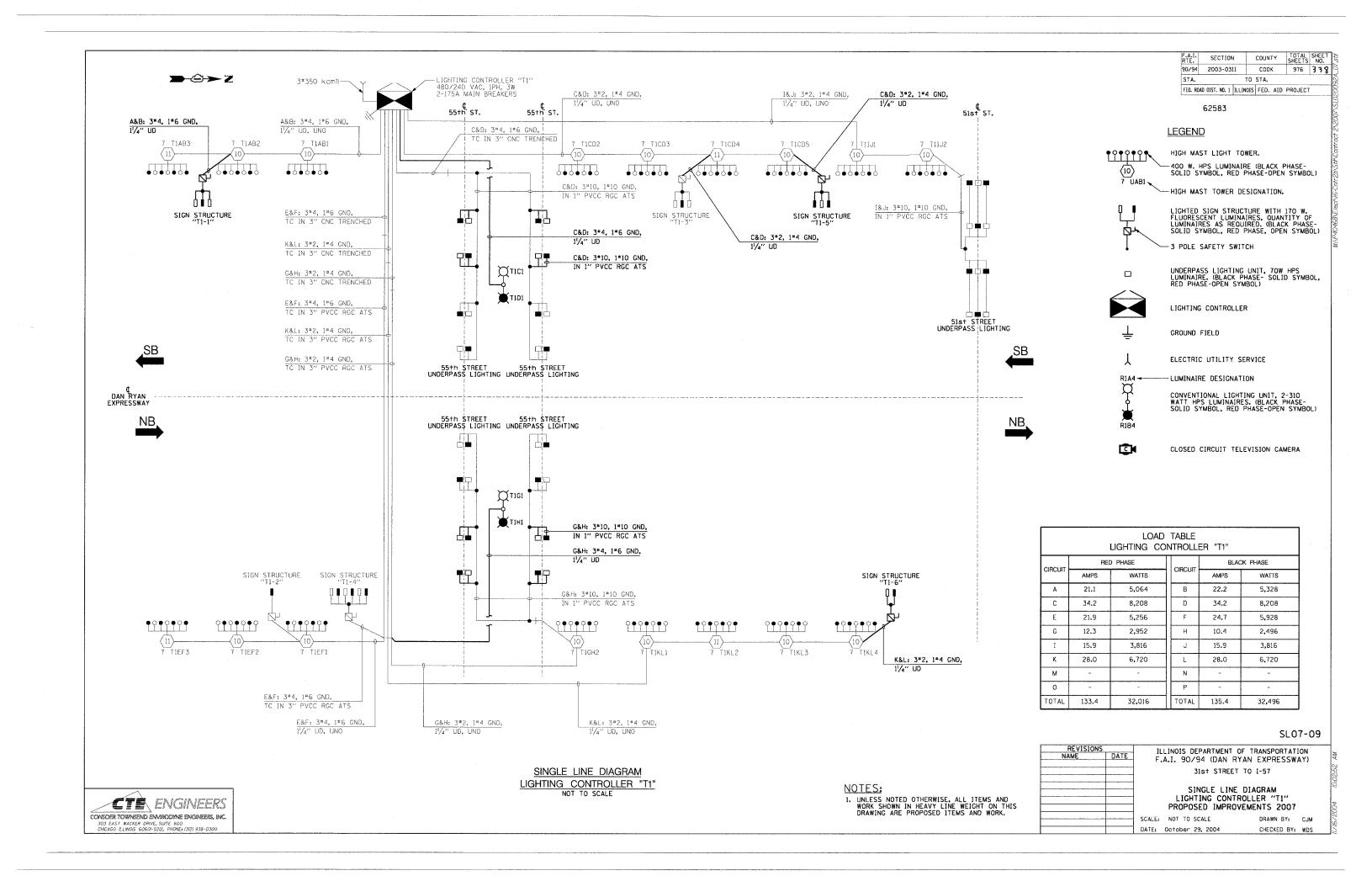
CHECKED BY: WDS

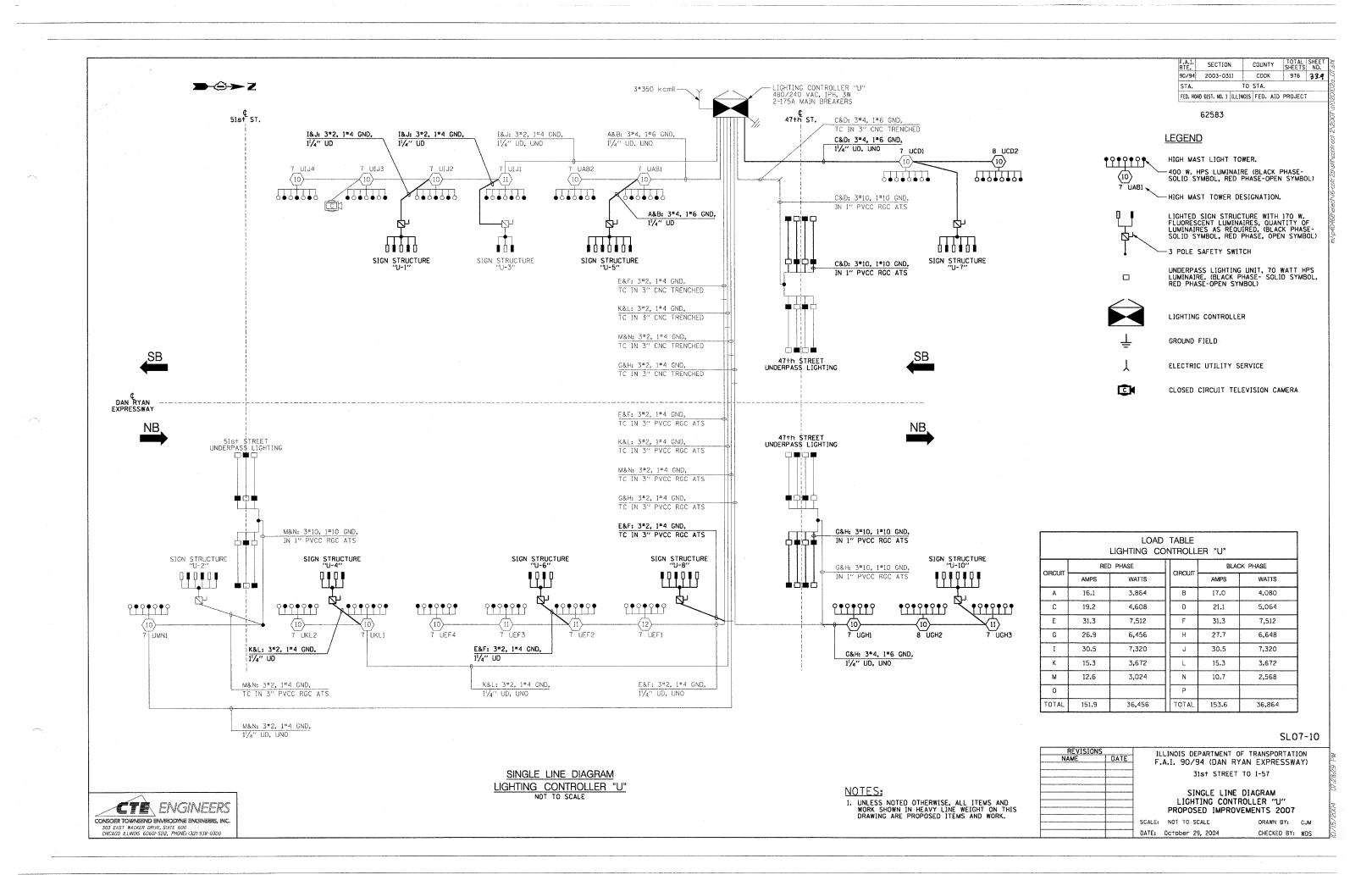
LIGHTING CONTROLLER "T"

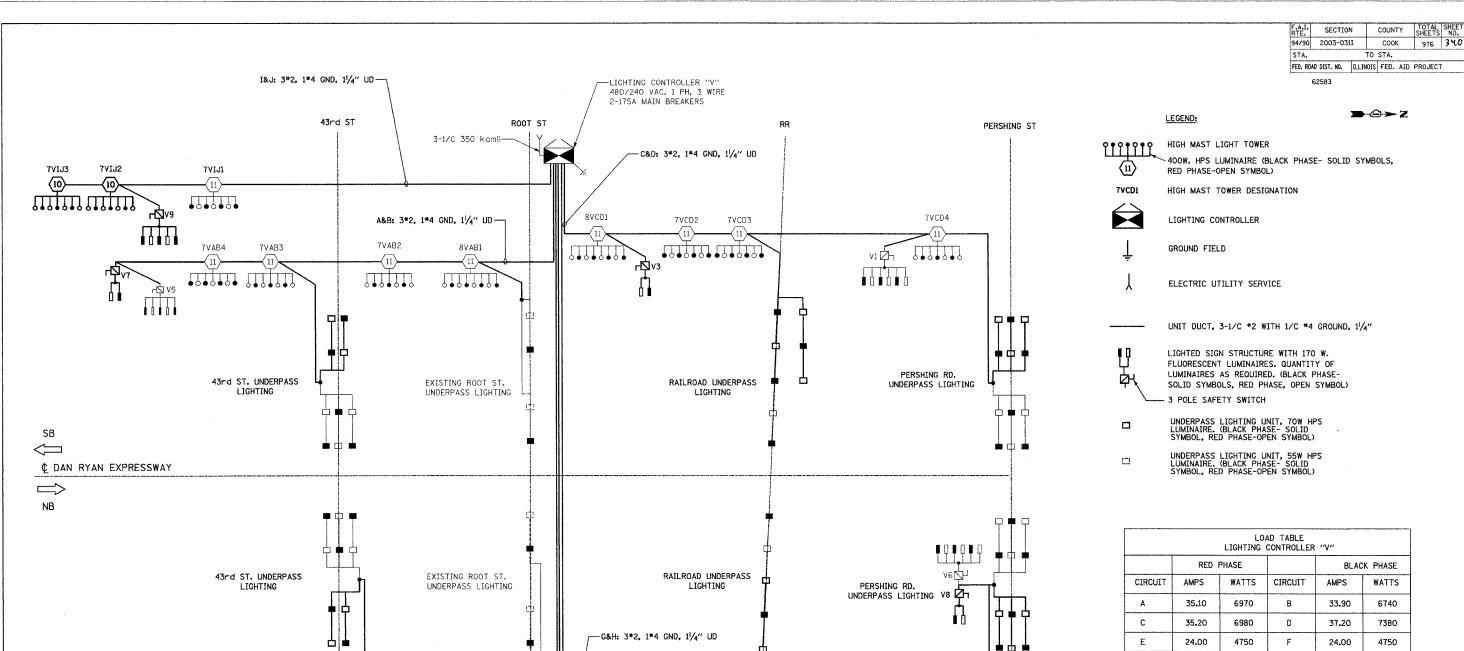
PROPOSED IMPROVEMENTS 2007

SCALE: NOT TO SCALE

DATE: October 29, 2004







			AD TABLE CONTROLLER	"V"	
	RED F	PHASE		BLAC	K PHASE
CIRCUIT	AMPS	WATTS	CIRCUIT	AMPS	WATTS
Α	35.10	6970	В	33.90	6740
С	35.20	6980	D	37.20	7380
E	24.00	4750	F	24.00	4750
G	38.00	7590	Н	36.80	7350
I	23.60	4740	J	22.40	4510
К	SPARE	SPARE	L	SPARE	SPARE
М	24.40	4910	N	23.20	4680
0	SPARE	SPARE	Р	SPARE	SPARE
TOTAL	180.30A	35,940	TOTAL	177.50A	35,410

SL07-11

CHECKED BY: SM

REVISIO	NS	THINOIS DEPART	MENT OF TRANSPORTATION
NAME	DATE	F.A.I. 94/90 (	DAN RYAN EXPRESSWAY) STREET TO 1-57
		LIGHTING	E LINE DIAGRAM G CONTROLLER "V" IMPROVEMENTS 2007
		SCALE: NONE	DRAWN BY: BL

DATE: OCTOBER 29, 2004

KAM ENGINEERING, INC. CONSULTING ENGINEERS TOTA Davis Road, Sulte 205 Elgin, Illinois 60123-1369

 $\langle 10 \rangle$ 

7VMN3

M&N: 3#2, 1#4 GND, 11/4" UD-

7VMN1

7VEF3

7VEF2

8VEF1

E&F: 3#2, 1#4 GND, 11/4" UD-

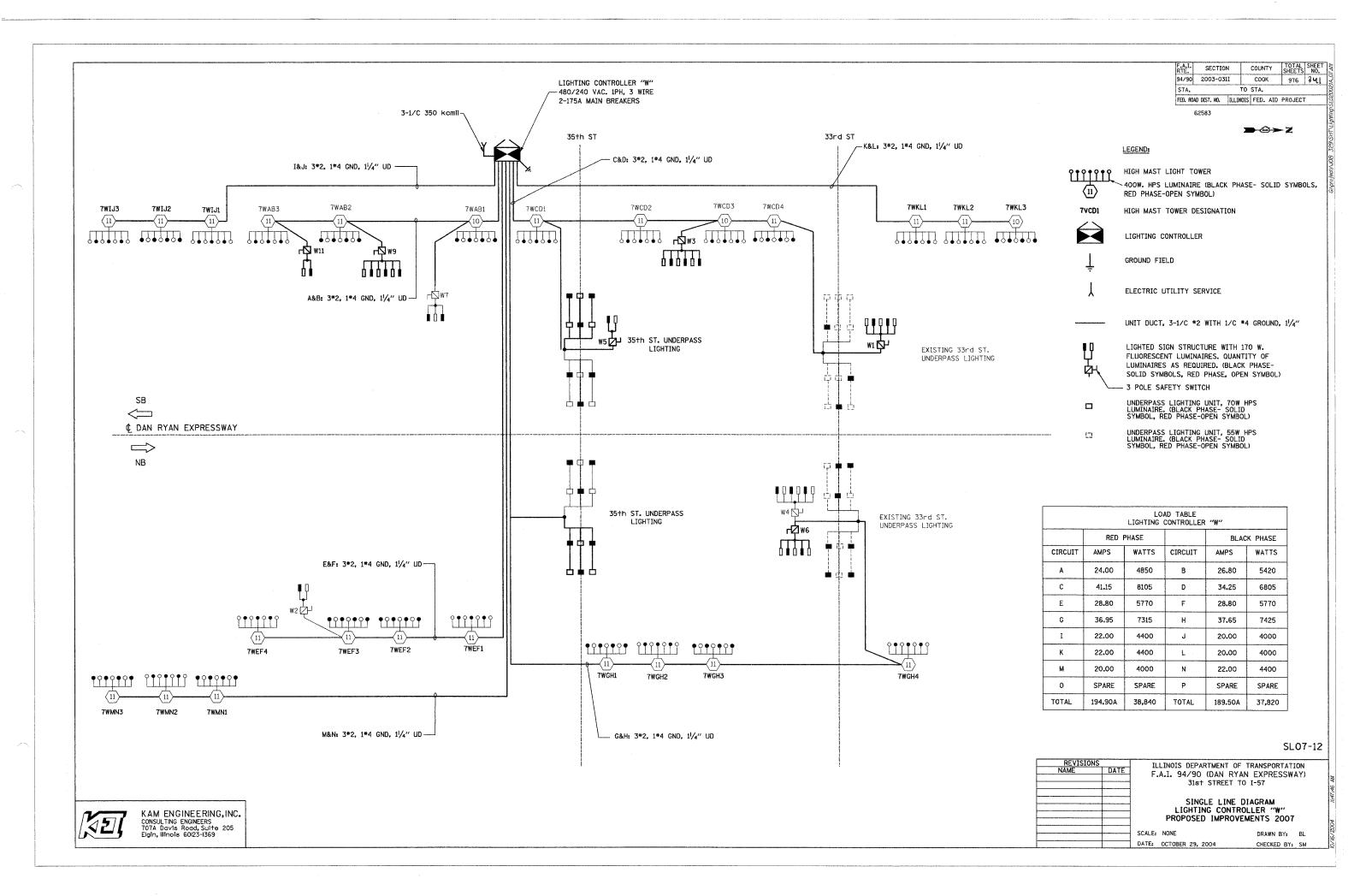
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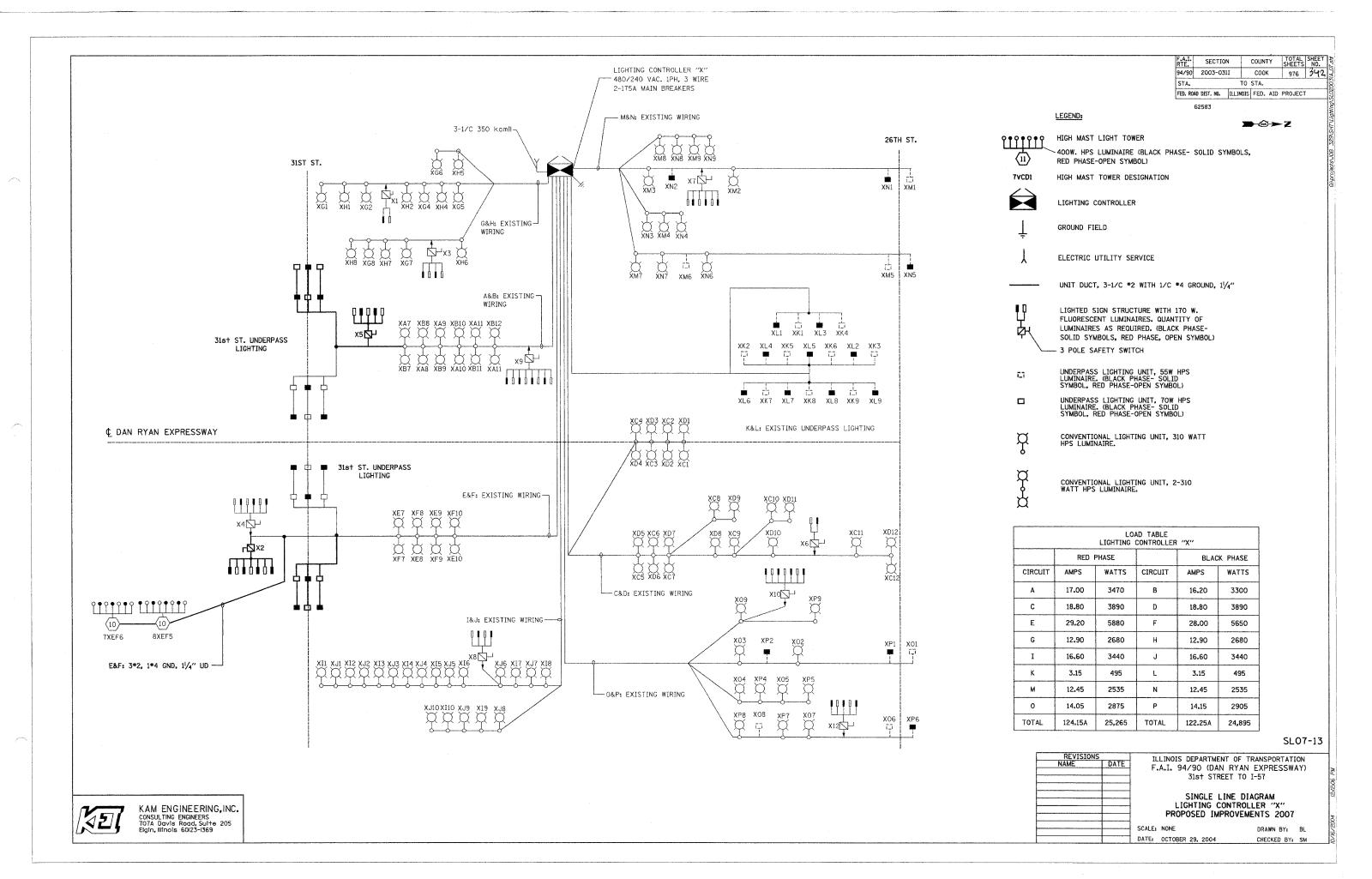
--- TYPICAL

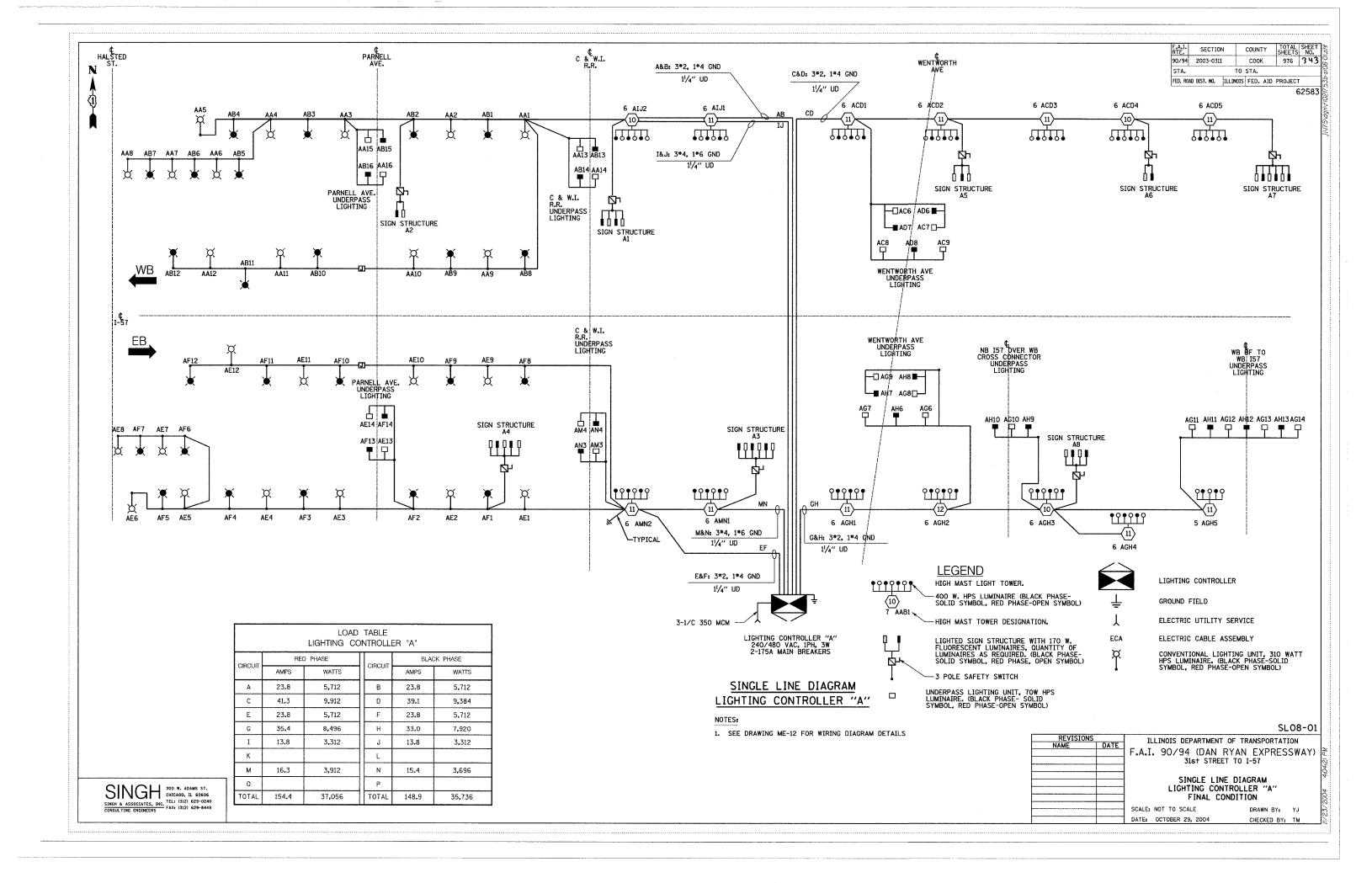
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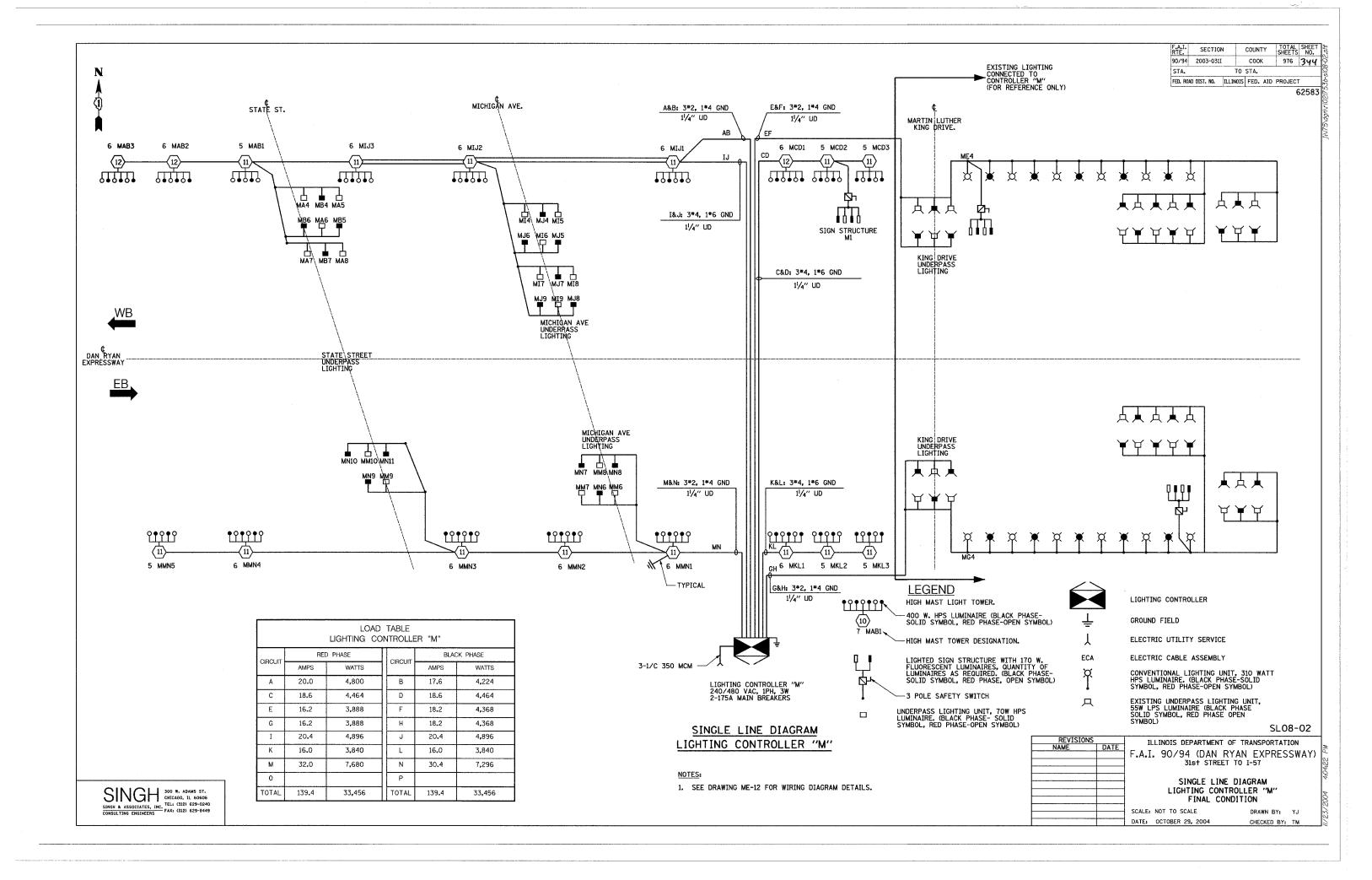
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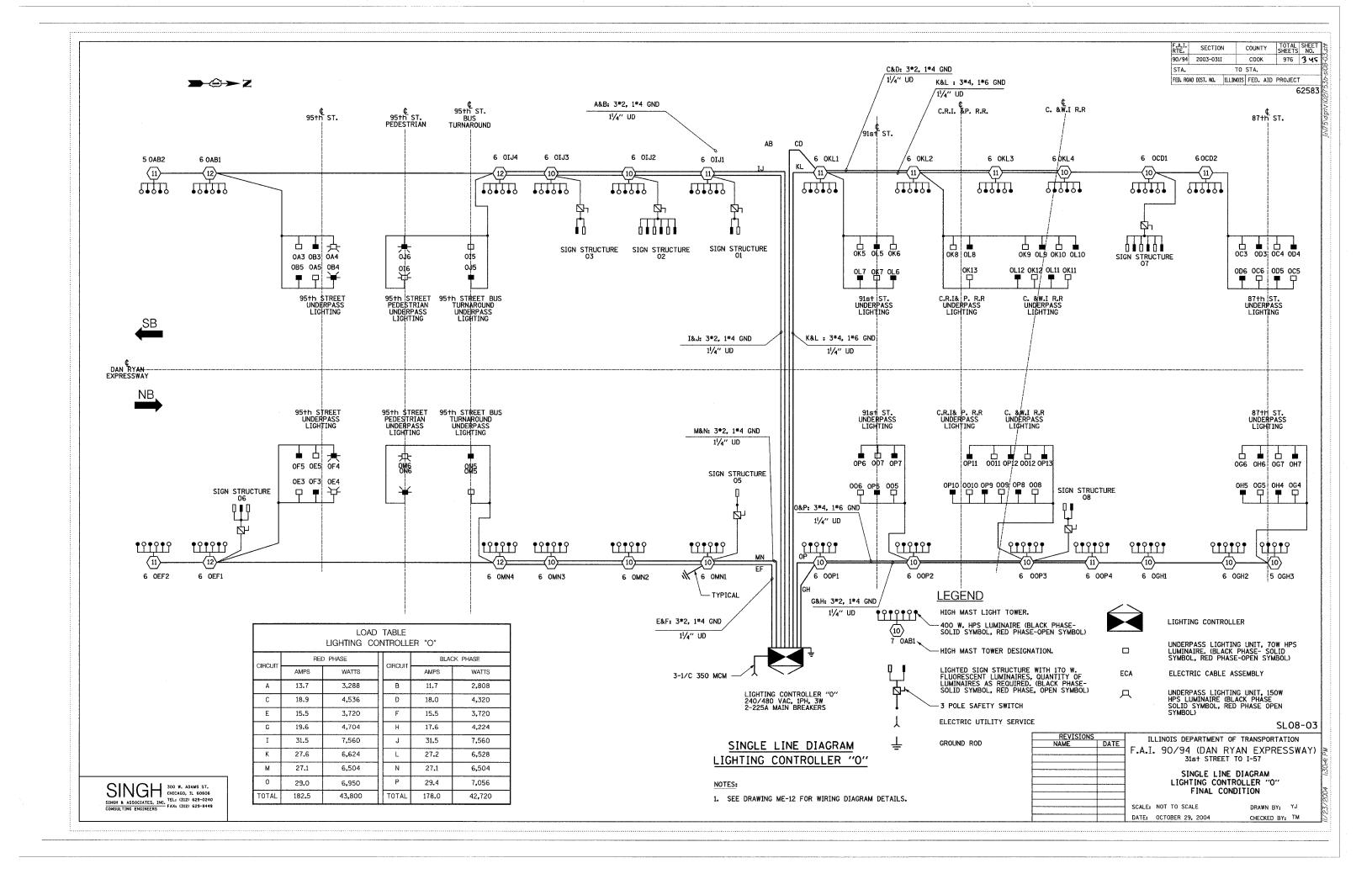
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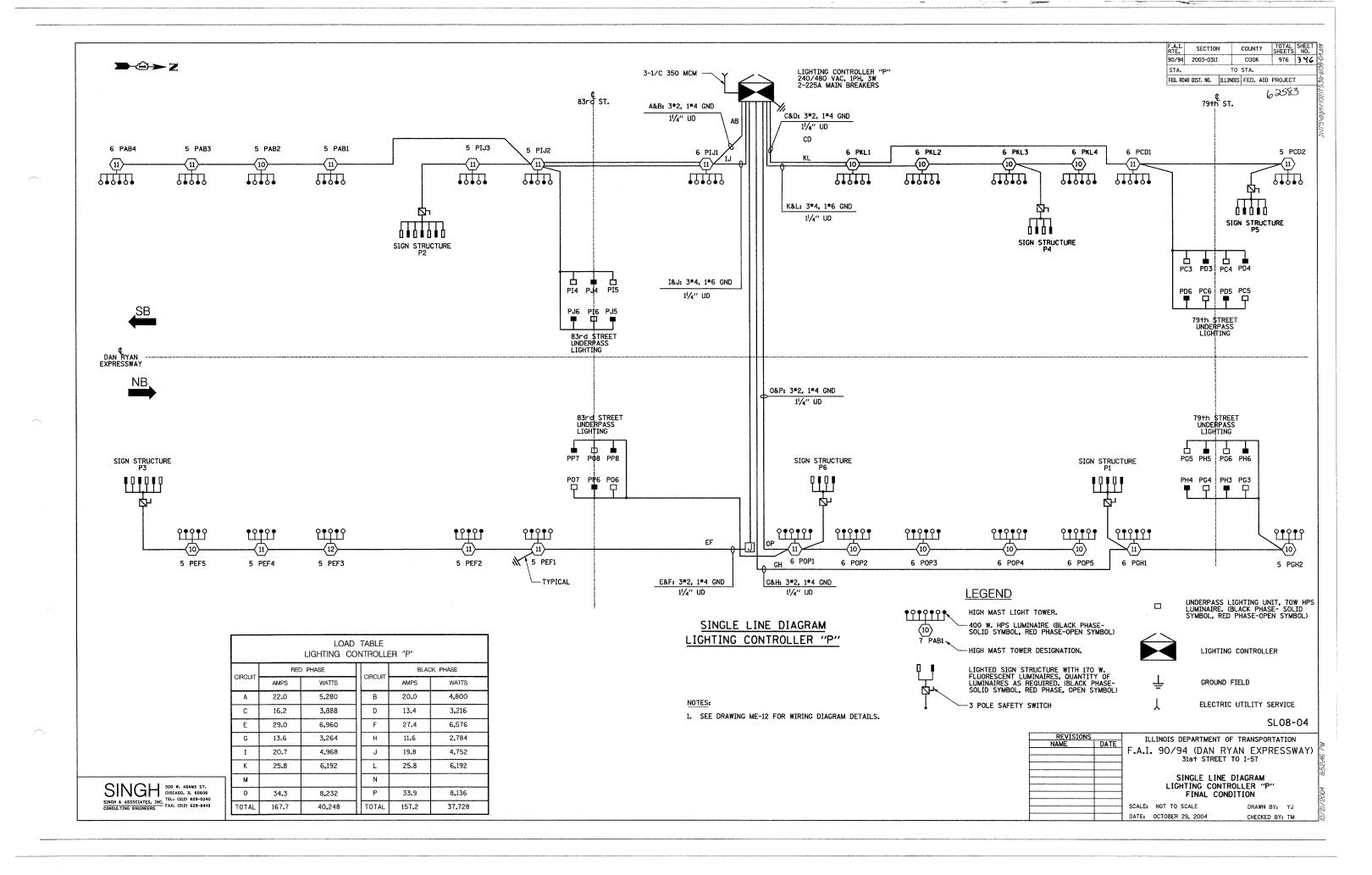


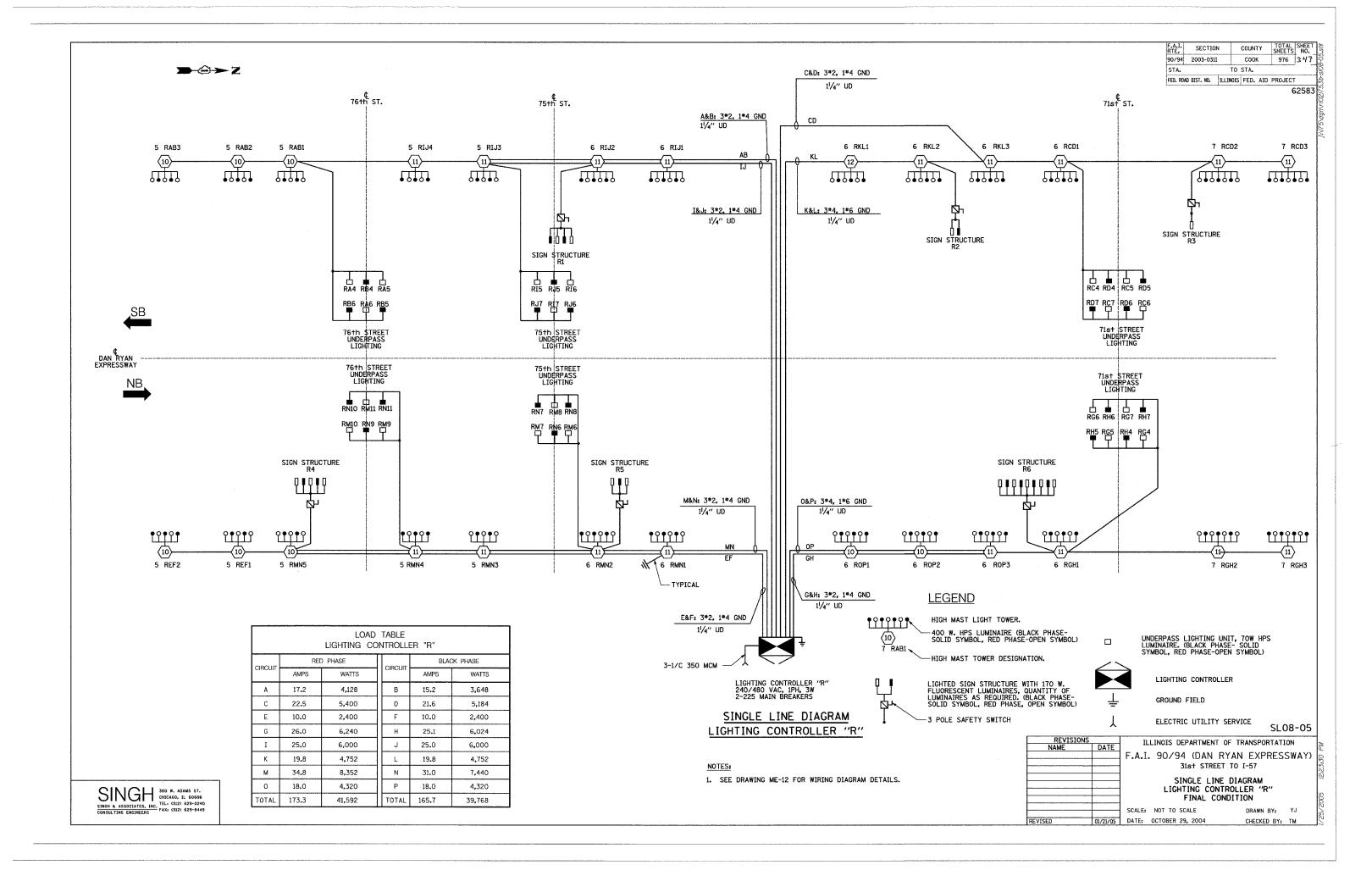


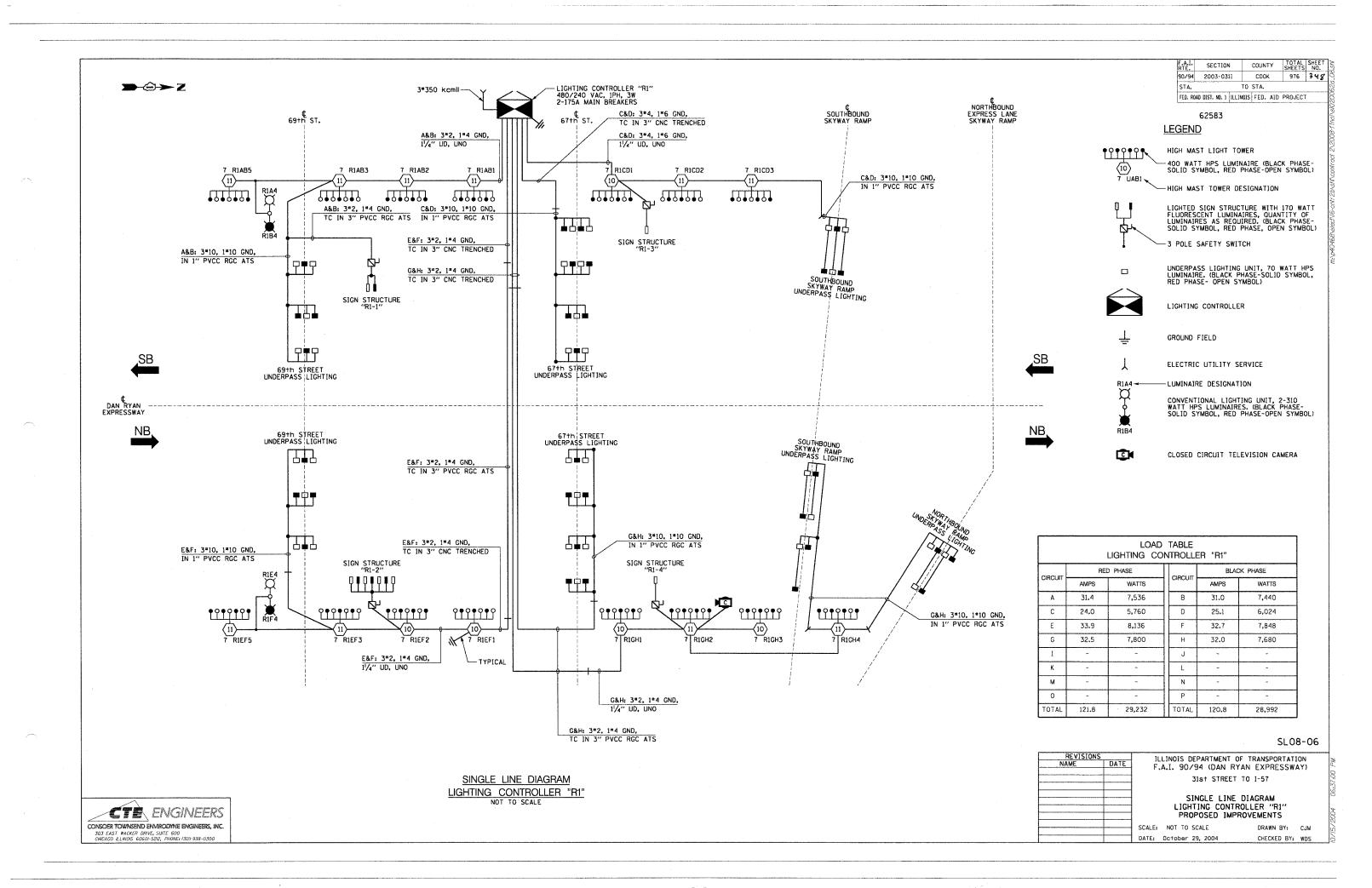


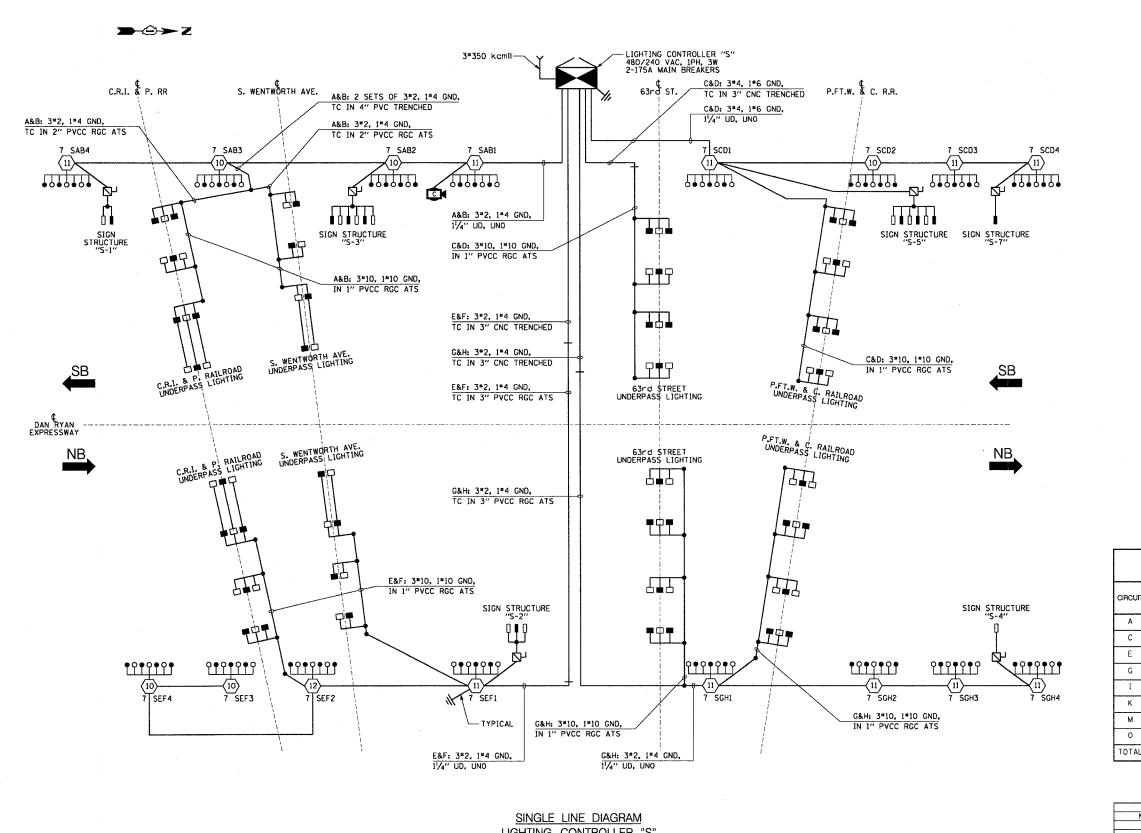












F.A.I. RTE.	SECTION	COUNTY	TOTAL	SHEET NO.
90/94	2003-0311	соок	976	349
STA.		TO STA.		
FED. ROA	D DIST. NO. 1 JLLI	NOIS FED. AID	PROJECT	T

LEGEND

191919 7 UAB1 👡 HIGH MAST LIGHT TOWER

- 400 WATT HPS LUMINAIRE (BLACK PHASE-SOLID SYMBOL, RED PHASE-OPEN SYMBOL) --- HIGH MAST TOWER DESIGNATION.



LIGHTED SIGN STRUCTURE WITH 170 WATT FLUORESCENT LUMINAIRES, OLIANTITY OF LUMINAIRES AS REOUIRED. (BLACK PHASE-SOLID SYMBOL, RED PHASE-OPEN SYMBOL)

-3 POLE SAFETY SWITCH

UNDERPASS LIGHTING UNIT, 70 WATT HPS LUMINAIRE. (BLACK PHASE- SOLID SYMBOL, RED PHASE-OPEN SYMBOL)



LIGHTING CONTROLLER



GROUND FIELD



ELECTRIC UTILITY SERVICE



CLOSED CIRCUIT TELEVISION CAMERA

			*********
	LOAD	TABLE	
LIGHTIN	NG CO	NTROLLER	"S

CIRCUIT	RED PHASE		CIRCUIT	BLAC	CK PHASE
CIRCUIT	AMPS	WATTS	CIRCUIT	AMPS	WATTS
А	34.3	8,232	В	34.3	8,232
С	34.2	8,208	D	35.0	8,400
E.	32.6	7,824	F	31.8	7,632
G	32.5	7,800	Н	31.7	7,608
I	-	-	J	-	-
К	-	~	L	-	-
М	-	~-	N	-	-
0	-	<del>-</del> .	Р	-	-
TOTAL	133.6	32,064	TOTAL	132.8	31,872

SL08-07

LIGHTING CONTROLLER "S"

NOT TO SCALE

	REVISION	IS	
	NAME	DATE	
<u> </u>			
	***************************************		
1			

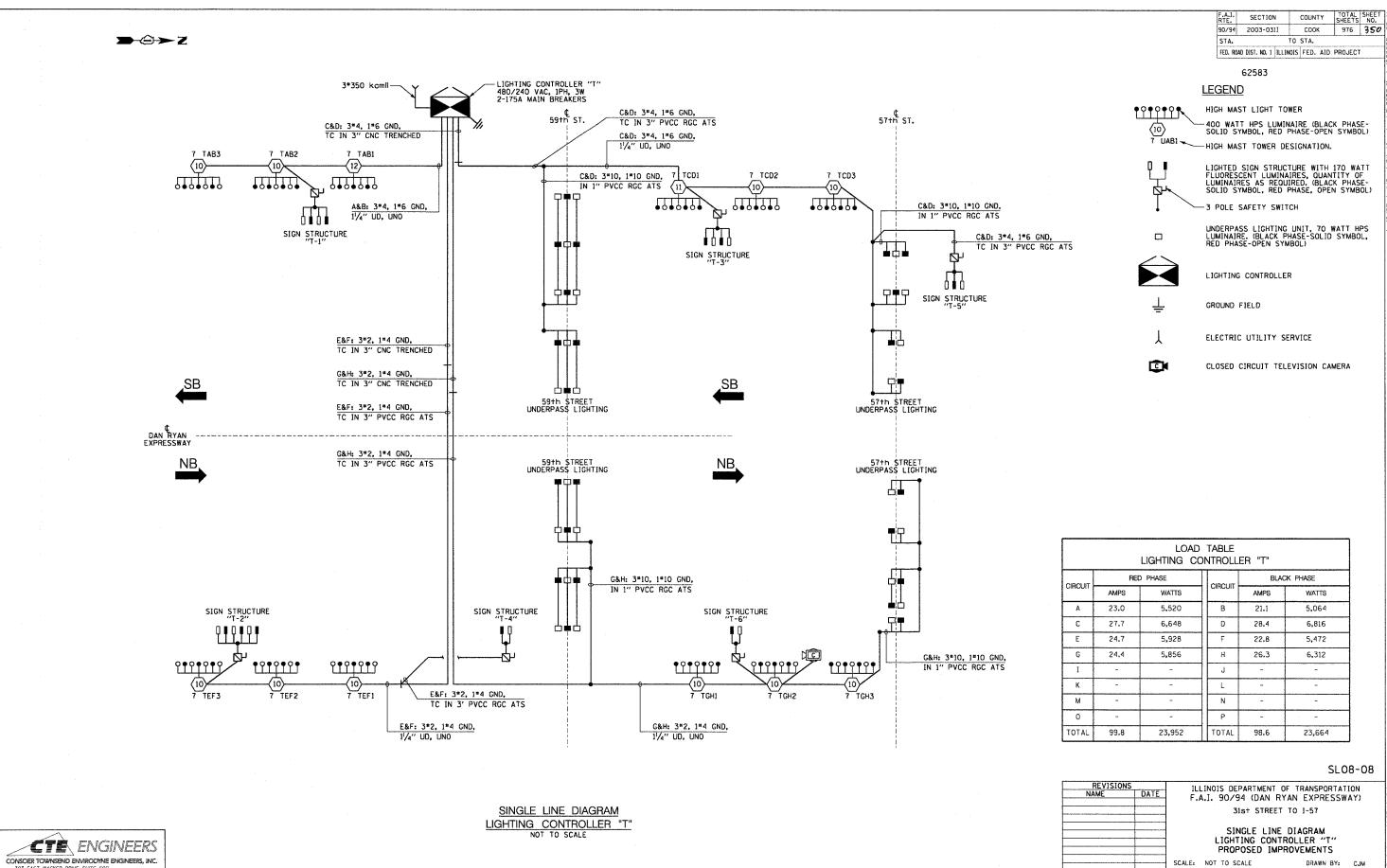
ILLINOIS DEPARTMENT OF TRANSPORTATION F.A.I. 90/94 (DAN RYAN EXPRESSWAY) 31st STREET TO I-57

SINGLE LINE DIAGRAM LIGHTING CONTROLLER "S"

PROPOSED IMPROVEMENTS SCALE: NOT TO SCALE DATE: October 29, 2004

DRAWN BY: CJM CHECKED BY: WDS

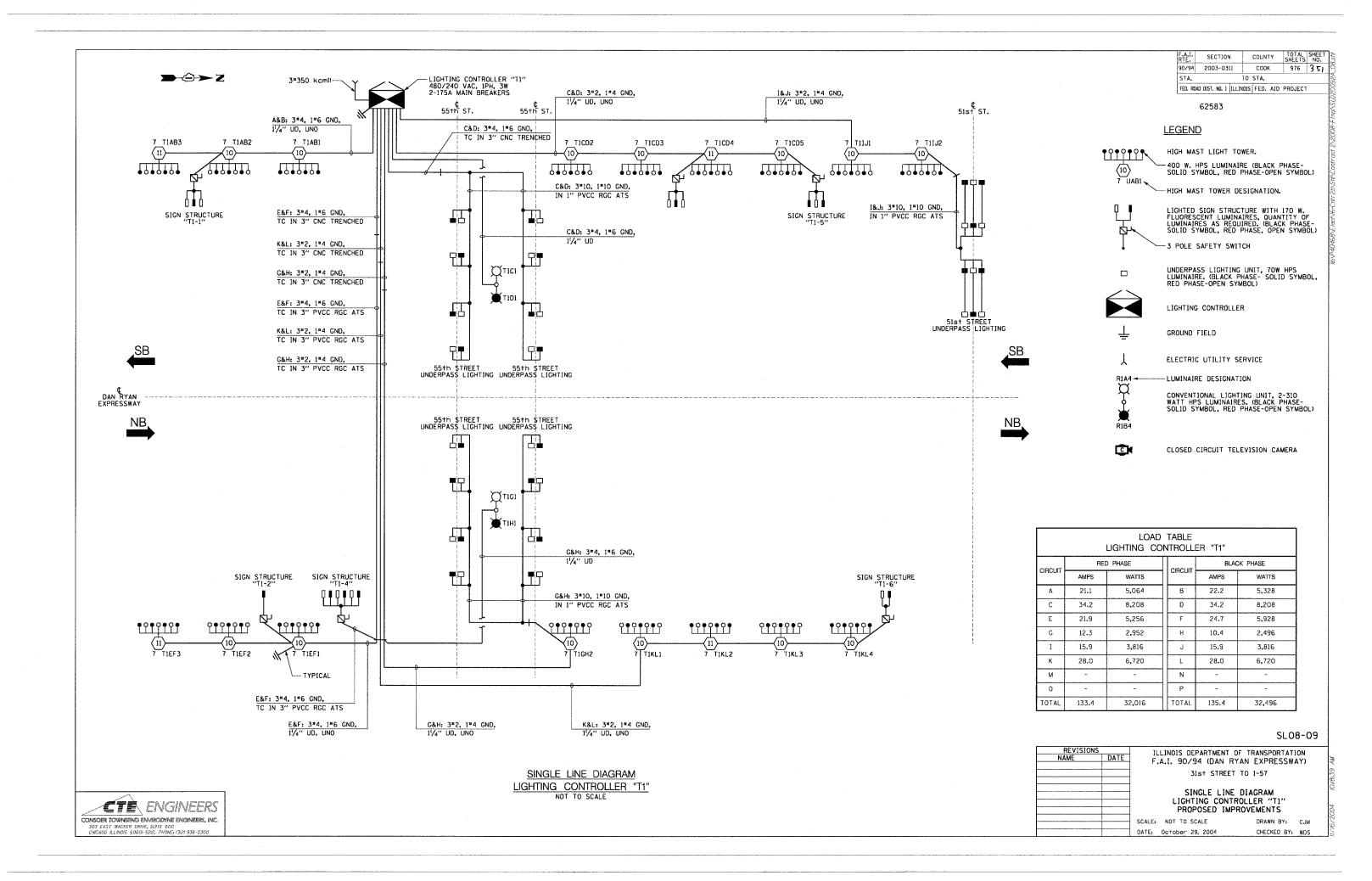
CTE ENGINEERS CONSOER TOWNSEND ENVIRODYNE ENGINEERS, INC. 303 EAST WACKER DRIVE, SUITE 600 CHICAGO ILLINOIS 60601-5212, PHONE: (312) 938-0300

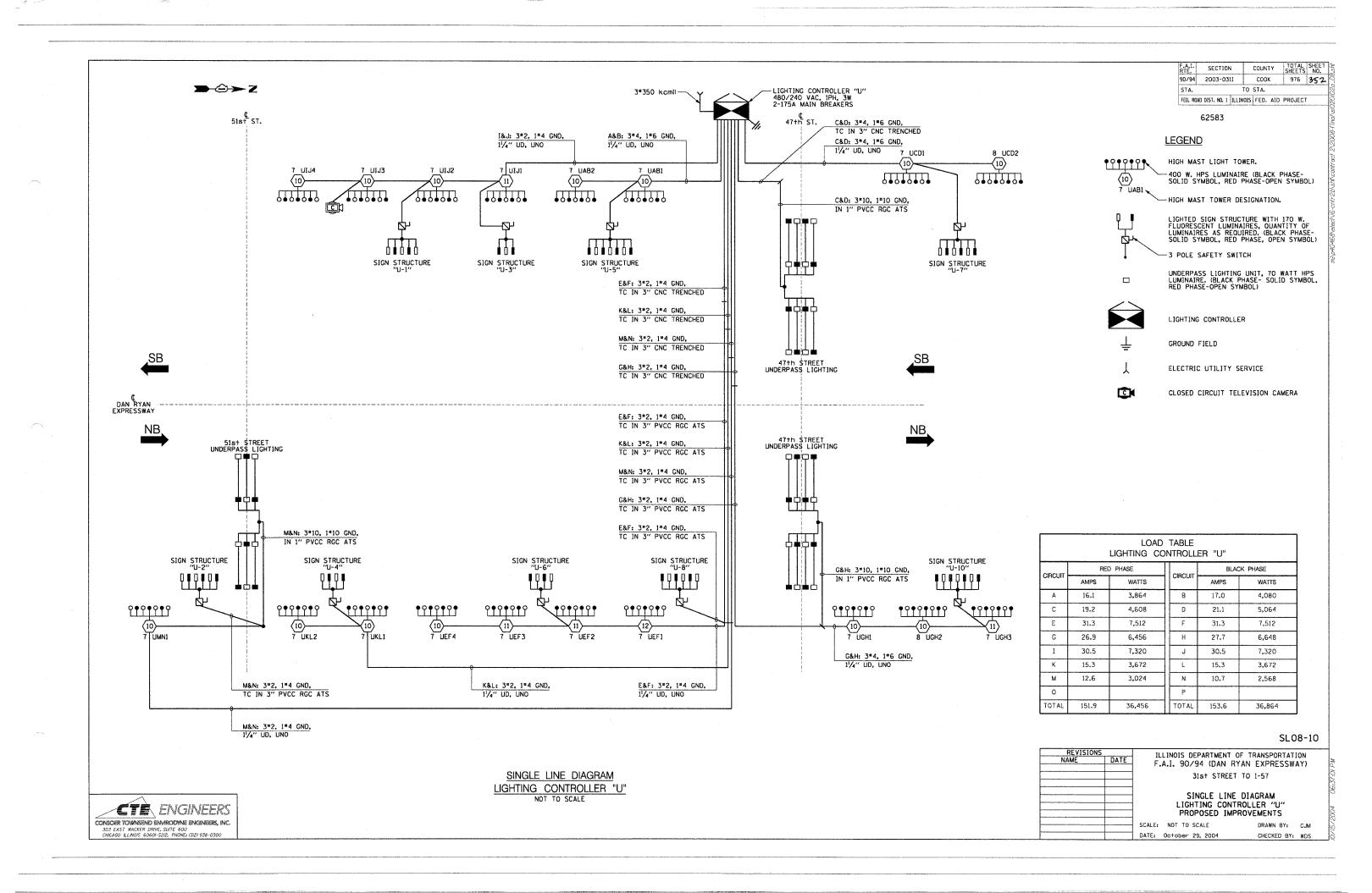


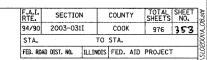
303 EAST WACKER DRIVE, SUITE 600 CHICAGO ILLINOIS 60601-5212, PHONE: (312) 938-0300

CHECKED BY: WDS

DATE: October 29, 2004







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## LEGEND:

HIGH MAST LIGHT TOWER

400W. HPS LUMINAIRE (BLACK PHASE- SOLID SYMBOLS, RED PHASE-OPEN SYMBOL)

7VCD1 HIGH MAST TOWER DESIGNATION

 $\langle 1 \rangle$ 

LIGHTING CONTROLLER

GROUND FIELD

ELECTRIC UTILITY SERVICE

UNIT DUCT, 3-1/C *2 WITH 1/C *4 GROUND,  $1^{1}/_{4}$ "

171

LIGHTED SIGN STRUCTURE WITH 170 W. FLUORESCENT LUMINAIRES, QUANTITY OF LUMINAIRES AS REQUIRED, (BLACK PHASE-SOLID SYMBOLS, RED PHASE, OPEN SYMBOL) 3 POLE SAFETY SWITCH

UNDERPASS LIGHTING UNIT, 70W HPS LUMINAIRE. (BLACK PHASE- SOLID SYMBOL, RED PHASE-OPEN SYMBOL)

UNDERPASS LIGHTING UNIT, 55W HPS LUMINAIRE. (BLACK PHASE- SOLID SYMBOL, RED PHASE-OPEN SYMBOL)

			AD TABLE CONTROLLER	ν	
	RED I	PHASE		BLAC	K PHASE
CIRCUIT	AMPS	WATTS	CIRCUIT	AMPS	WATTS
Α	35.10	6970	В	33.90	6740
С	35.20	6980	D	37.20	7380
E	24.00	4750	F	24.00	4750
G	38.00	7590	н	36.80	7350
I	23.60	4740	J	22.40	4510
к	SPARE	SPARE	L	SPARE	SPARE
М	24.40	4910	N	23.20	4680
0	SPARE	SPARE	Р	SPARE	SPARE
TOTAL	180.30A	35,940	TOTAL	177.50A	35,410

SL08-11

REVISIO NAME	517
NAME	DATE

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

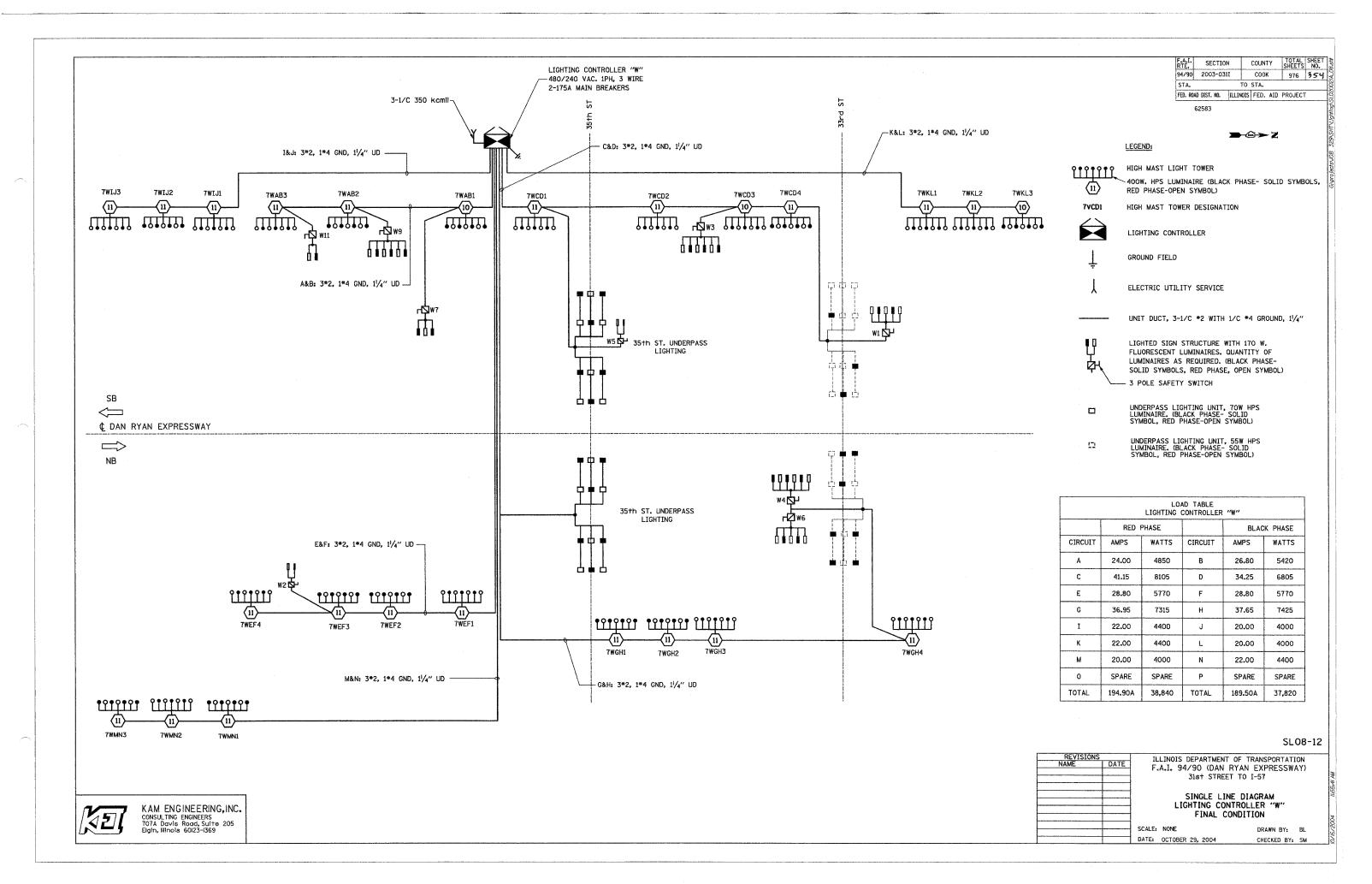
> SINGLE LINE DIAGRAM LIGHTING CONTROLLER "V" FINAL CONDITION

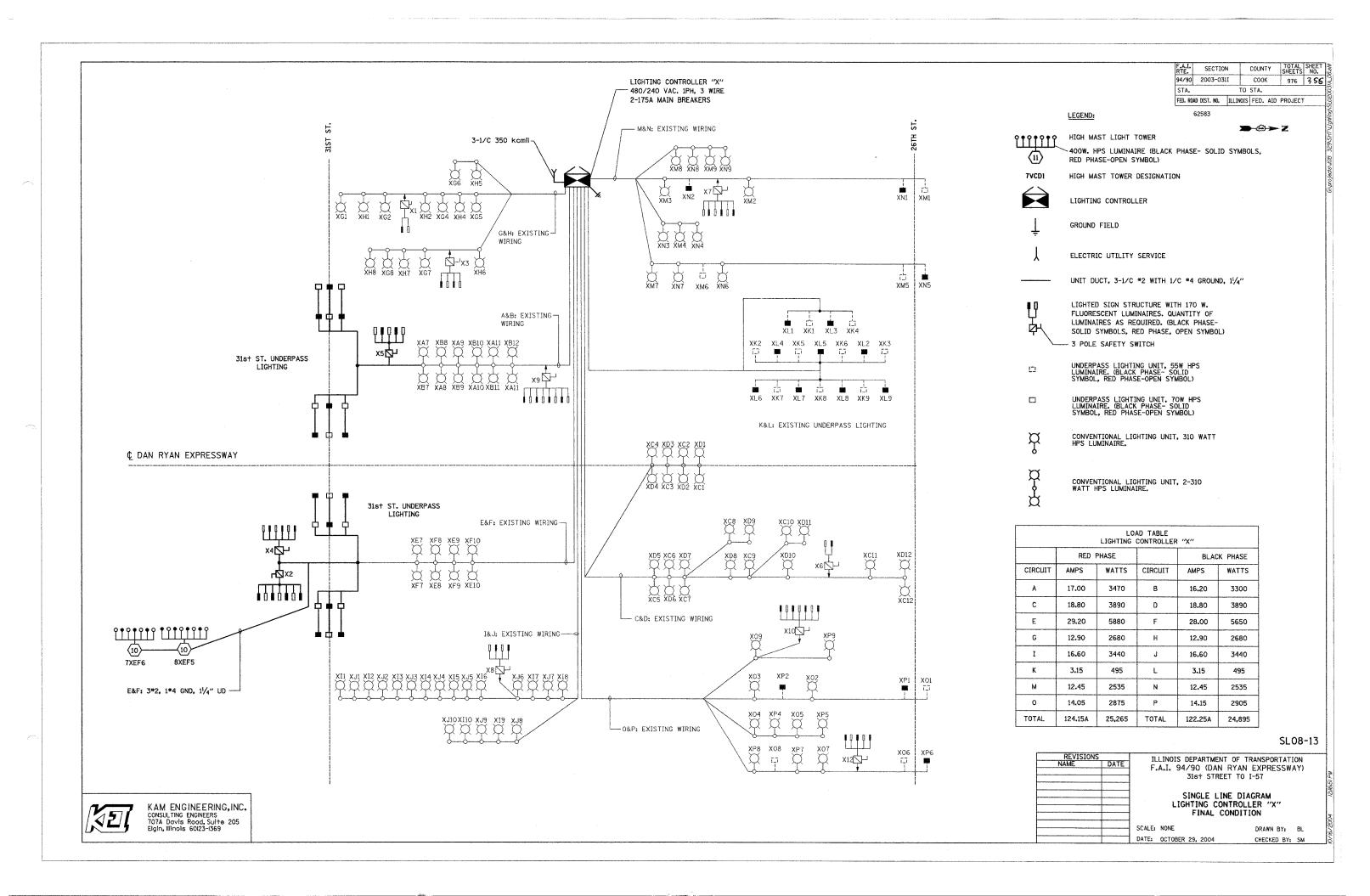
SCALE: NONE DRAWN BY: BL DATE: OCTOBER 29, 2004 CHECKED BY: SM

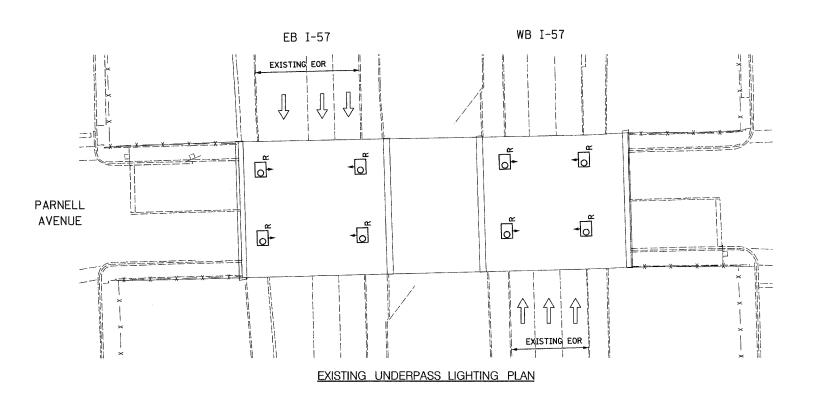
-LIGHTING CONTROLLER "V" 480/240 VAC. 1 PH, 3 WIRE 2-175A MAIN BREAKERS 43rd ST ROOT ST PERSHING ST 3-1/C 350 kcmil----C&D: 3#2, 1#4 GND, 11/4" UD 7VIJ3 7VIJ1 <del>-(10)-</del> (10)-A&B: 3*2, 1*4 GND, 11/4" UD-7VCD2 7VCD3 7VCD4 7VAB2 7VAB4 7VAB3 8VAB1 min. RAILROAD UNDERPASS LIGHTING PERSHING RD. UNDERPASS LIGHTING EXISTING ROOT ST. 43rd ST. UNDERPASS LIGHTING UNDERPASS LIGHTING SB ¢ DAN RYAN EXPRESSWAY  $\Longrightarrow$ NB RAILROAD UNDERPASS LIGHTING EXISTING ROOT ST. PERSHING RD. 43rd ST. UNDERPASS LIGHTING UNDERPASS LIGHTING UNDERPASS LIGHTING -G&H: 3#2, 1#4 GND, 11/4" UD 1919191 111111 191919 111111 111111 191919 19191919 (I) ₩ 7VGH1 7VEF3 8VEF1 7VEF2 7VGH2 7VGH3 7VGH4 E&F: 3#2, 1#4 GND, 11/4" UD-M&N: 3#2, 1#4 GND, 11/4" UD-TYPICAL

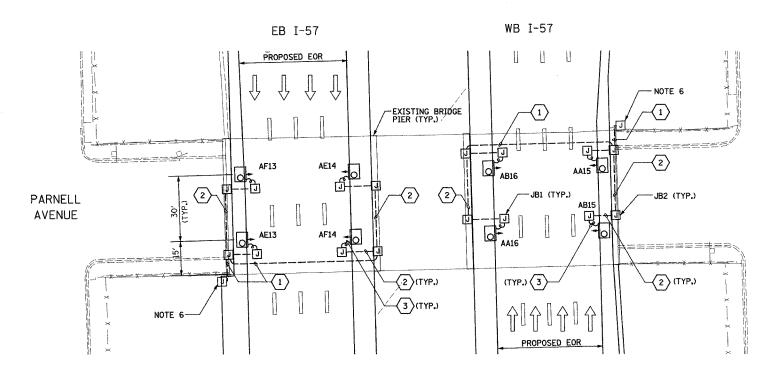
I&J: 3*2, 1*4 GND, 11/4" UD---

KAM ENGINEERING, INC. CONSULTING ENGINEERS 707A Davis Road, Suite 205 Eigin, Illinois 60/23-1369









PROPOSED UNDERPASS LIGHTING PLAN

SINGH & ASSOCIATES, INC.

CONSULTING ENGINEERS

SINGH & ASSOCIATES, INC.

FAX: (312) 629-0240

# **→**②→ Z

#### NOT

- 1. SEE DRAWINGS ME-01 AND ME-02 FOR ELECTRICAL SYMBOLS AND ABBREVIATIONS.
- LOCATIONS OF EXISTING ELECTRICAL EQUIPMENT SHOWN ON THIS DRAWING ARE APPROXIMATIONS AND SHALL BE VERIFIED IN THE FIELD BY THE CONTRACTOR.
- 3. THE REMOVAL OF EXISTING UNDERPASS LUMINAIRES SHALL INCLUDE THE REMOVAL OF ALL CABLES AND CONDUIT BACK TO THE NEAREST JUNCTION BOX. COST FOR THIS WORK WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED AS PART OF THE "REMOVE EXISTING UNDERPASS LUMINAIRE, AND SALVAGE" PAY ITEM.
- 4. UNDERPASS LUMINAIRES SHALL BE SALVAGED AND RETURNED TO IDOT.
- 5. ALL PROPOSED UNDERPASS LUMINAIRES SHOWN ON THIS DRAWING SHALL BE PENDANT MOUNTED OFFSET 2 FEET FROM EDGE OF ROADWAY (EOR) UNLESS NOTED OTHERWISE. SEE DRAWING ME-OG FOR PENDANT MOUNTED UNDERPASS LIGHTING DETAILS.
- SPLICE NEW UNDERPASS LIGHTING CIRCUITS TO THE SERVICE CABLES LOCATED IN JUNCTION BOX. SEE DRAWING RLO6-02 AND RLO7-02 FOR CONTINUATION OF UNDERPASS LIGHTING CIRCUIT FEEDS.
- ALL PROPOSED UNDERPASS LIGHTING UNITS SHOWN ON THIS DRAWING SHALL BE FED FROM IDOT LIGHTING CONTROLLER "A". SEE DRAWING SLOS—0.1 FOR SINGLE LINE DIAGRAM FOR LIGHTING CONTROLLER "A".
- 8. ALL PROPOSED UNDERPASS LIGHTING UNIT LOCATIONS SHALL BE APPROVED BY IDOT PRIOR TO INSTALLATION.
- CONTRACTOR IS RESPONSIBLE FOR THE MAINTENANCE OF THE EXISTING LIGHTING SYSTEM SHOWN ON THIS DRAWING. PROVIDE TEMPORARY POWER AS REQUIRED TO MAINTAIN THE EXISTING LIGHTING SYSTEM.
- 10. COORDINATE ALL ELECTRICAL WORK WITH CIVIL WORK, IDOT CONTRACTS 62304, 62305, 62592, 62593, CONSTRUCTION STAGING AND TRAFFIC CONTROL PLANS.

	JUNCTIO	ON BOX SCHEDULE
NO.	SIZE	DESCRIPTION
JB1	6"X6"X4"	STAINLESS STEEL, ATTACHED TO STRUCTURE, UNDERPASS LIGHTING
JB2	12"X10"X6"	STAINLESS STEEL, ATTACHED TO STRUCTURE, UNDERPASS LIGHTING

	CABLE /CONDUIT SCHEDULE
1	3-1/C*10, 1-1/C*10 GND IN 1" DIA PVCC RGC ATTACHED TO STRUCTURE (CKTS AS INDICATED ON THIS DRAWING)
2	2-1/C*10, 1-1/C*10 GND IN 1" DIA PVCC RGC ATTACHED TO STRUCTURE (CKTS AS INDICATED ON THIS DRAWING)
3	2-1/C*10, 1-1/C*10 GND IN 1" DIA LIQUID TIGHT FLEXIBLE CONDUIT (CKTS AS INDICATED ON THIS DRAWING)

## SEQUENCE OF WORK:

2006: WB I-57 OUTSIDE LANE

EB I-57 INSIDE LANE

2007: WB I-57 INSIDE LANE

EB I-57 OUTSIDE LANE



UL-01

REVISION: NAME	DATE		. 90/94 (DAN 31s+ STRE UNDERPASS L	T OF TRANSPORTATI RYAN EXPRES ET TO 1-57 IGHTING PLANS AVENUE	
		SCALE:	1"=20'	DRAWN BY:	VG
		DATE:	OCTOBER 29, 2004	CHECKED BY:	TM

F.A.I. RTE.	SECTION	١	COUNTY	SHEETS	SHEET NO.
90/94	2003-0311		соок	976	357
STA.		TO	STA.		

**→**②→ Z

# NOTES

- 1. SEE DRAWINGS ME-01 AND ME-02 FOR ELECTRICAL SYMBOLS AND ABBREVIATIONS.
- 2. ALL PROPOSED UNDERPASS LUMINAIRES SHOWN ON THIS DRAWING SHALL BE PENDANT MOUNTED OFFSET 2 FEET FROM EDGE OF ROADWAY (EOR) UNLESS NOTED OTHERWISE. SEE DRAWING ME-06 FOR PENDANT MOUNTED UNDERPASS LIGHTING DETAILS.
- SPLICE NEW UNDERPASS LIGHTING CIRCUITS TO THE SERVICE CABLES LOCATED IN JUNCTION BOX. SEE DRAWING RLO6-03 AND RLO7-03 FOR CONTINUATION OF UNDERPASS LIGHTING CIRCUIT FEEDS.
- 4. ALL PROPOSED UNDERPASS LIGHTING UNITS SHOWN ON THIS DRAWING SHALL BE FED FROM IDOT LIGHTING CONTROLLER "A". SEE DRAWING SLO8-01 FOR SINGLE LINE DIAGRAM FOR LIGHTING CONTROLLER "A".
- 5. ALL PROPOSED UNDERPASS LIGHTING UNIT LOCATIONS SHALL BE APPROVED BY IDOT PRIOR TO INSTALLATION.
- 6. COORDINATE ALL ELECTRICAL WORK WITH CIVIL WORK, IDOT CONTRACTS 62304, 62305, 62592, 62593, CONSTRUCTION STAGING AND TRAFFIC CONTROL PLANS.

JUNCTION BOX SCHEDULE					
NO.	SIZE	DESCRIPTION			
JB1	6"X6"X4"	STAINLESS STEEL, ATTACHED TO STRUCTURE, UNDERPASS LIGHTING			
JB2	12"X10"X6"	STAINLESS STEEL, ATTACHED TO STRUCTURE, UNDERPASS LIGHTING			

	CABLE /CONDUIT SCHEDULE						
1	3-1/C*10, 1-1/C*10 GND IN 1" DIA PVCC RGC ATTACHED TO STRUCTURE (CKTS AS INDICATED ON THIS DRAWING)						
2	2-1/C*10, 1-1/C*10 GND IN 1" DIA PVCC RGC ATTACHED TO STRUCTURE (CKTS AS INDICATED ON THIS DRAWING)						
3	2-1/C*10, 1-1/C*10 GND IN 1" DIA LIQUID TIGHT FLEXIBLE CONDUIT (CKTS AS INDICATED ON THIS DRAWING)						

## SEQUENCE OF WORK:

2006: WB I-57 OUTSIDE LANE

EB I-57 INSIDE LANE

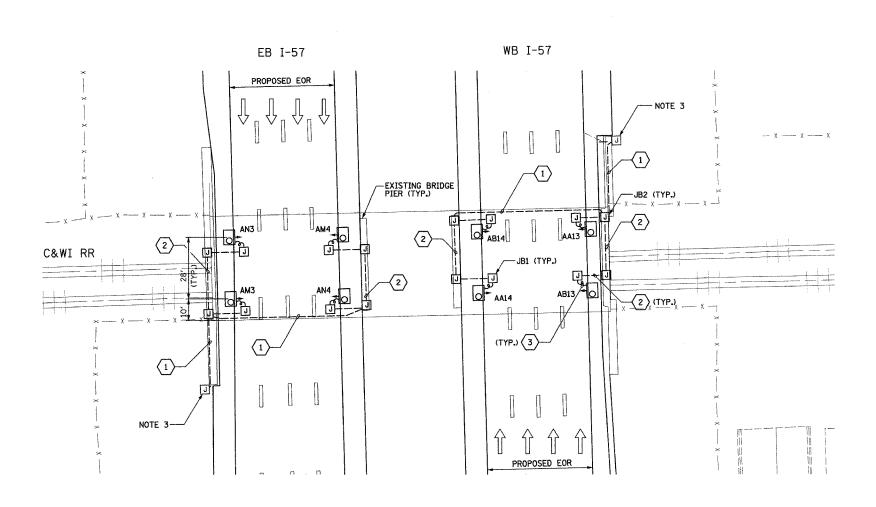
2007: WB I-57 INSIDE LANE

EB I-57 OUTSIDE LANE



UL-02

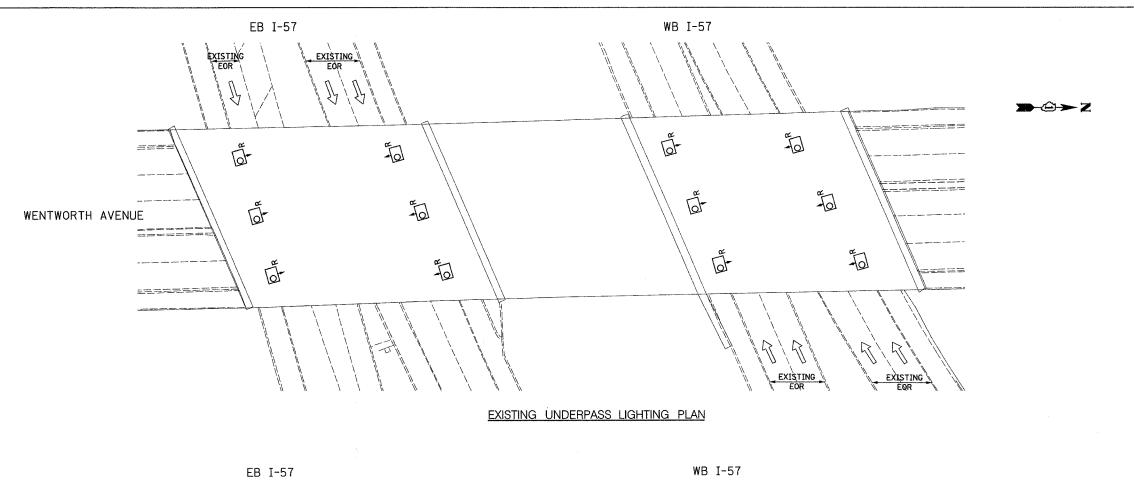
REVISIONS	TI TI	INOIS DEP	ARTMENT OF TE	TANSPORTATI	ON
NAME DA	TF I				
	F.A.I.		(DAN RYAN		SWAY)
		318	st STREET TO	I-57	
<u> </u>		UNDERF	PASS LIGHTIN	G PLANS	
		C&	WI RR OVER	I-57	
		PROP	OSED IMPROVE	MENTS	
	50415	1"=20"			
	SCALE:	1=20.		DRAWN BY:	VG
	DATE:	OCTOBER 29,	2004	CHECKED BY:	TM

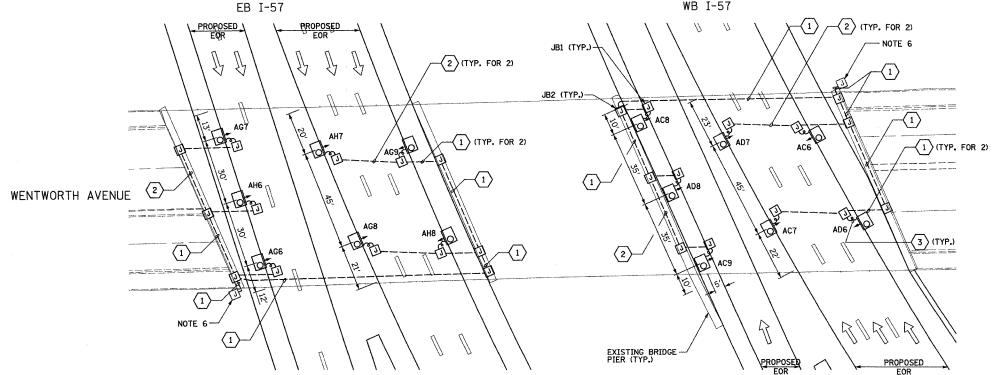


PROPOSED UNDERPASS LIGHTING PLAN

SINGH & ASSOCIATES, INC.
CONSULTING ENGINEERS

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





PROPOSED UNDERPASS LIGHTING PLAN

SINGH & ASSOCIATES, INC.
CONSULTING ENGINEERS FAX: (312) 629-0240

#### NOTE

- 1. SEE DRAWINGS ME-01 AND ME-02 FOR ELECTRICAL SYMBOLS AND ABBREVIATIONS.
- 2. LOCATIONS OF EXISTING ELECTRICAL EQUIPMENT SHOWN ON THIS DRAWING ARE APPROXIMATIONS AND SHALL BE VERIFIED IN THE FIELD BY THE CONTRACTOR.
- 3. CONTRACTOR SHALL REMOVE AND DISPOSE OF ALL EXISTING CABLE, CONDUIT, JUNCTION BOXES, AND ALL MOUNTING HARDWARE ASSOCIATED WITH THE EXISTING UNDERPASS LIGHTING.
- 4. UNDERPASS LUMINAIRES SHALL BE SALVAGED AND RETURNED TO IDOT.
- 5. ALL PROPOSED UNDERPASS LUMINAIRES SHOWN ON THIS DRAWING SHALL BE PENDANT MOUNTED OFFSET 2 FEET FROM EDGE OF ROADWAY (EOR) UNLESS NOTED OTHERWISE. SEE DRAWING ME-OB FOR PENDANT MOUNTED UNDERPASS LIGHTING DETAILS.
- SPLICE NEW UNDERPASS LIGHTING CIRCUITS TO THE SERVICE CABLES LOCATED IN JUNCTION BOX. SEE DRAWING RLO6-04 AND RLO7-04 FOR CONTINUATION OF UNDERPASS LIGHTING CIRCUIT FEEDS.
- ALL PROPOSED UNDERPASS LIGHTING UNITS SHOWN ON THIS DRAWING SHALL BE FED FROM IDOT LIGHTING CONTROLLER "A". SEE DRAWING SLOB-01 FOR SINGLE LINE DIAGRAM FOR LIGHTING CONTROLLER "A".
- 8. ALL PROPOSED UNDERPASS LIGHTING UNIT LOCATIONS SHALL BE APPROVED BY IDOT PRIOR TO INSTALLATION.
- 9. CONTRACTOR IS RESPONSIBLE FOR THE MAINTENANCE OF THE EXISTING LIGHTING SYSTEM SHOWN ON THIS DRAWING. PROVIDE TEMPORARY POWER AS REQUIRED TO MAINTAIN THE EXISTING LIGHTING SYSTEM.
- 10. COORDINATE ALL ELECTRICAL WORK WITH CIVIL WORK, IDOT CONTRACTS 62304, 62305, 62592, 62593, CONSTRUCTION STAGING AND TRAFFIC CONTROL PLANS.

	JUNCTION BOX SCHEDULE						
NO.	SIZE	DESCRIPTION					
JB1	6"X6"X4"	STAINLESS STEEL, ATTACHED TO STRUCTURE, UNDERPASS LIGHTING					
JB2	12"X10"X6"	STAINLESS STEEL, ATTACHED TO STRUCTURE, UNDERPASS LIGHTING					

	CABLE /CONDUIT SCHEDULE
1	3-1/C*10, 1-1/C*10 GND IN 1" DIA PVCC RGC ATTACHED TO STRUCTURE (CKTS AS INDICATED ON THIS DRAWING)
2	2-1/C*10, 1-1/C*10 GND IN 1" DIA PVCC RGC ATTACHED TO STRUCTURE (CKTS AS INDICATED ON THIS DRAWING)
(3)	2-1/C*10, 1-1/C*10 GND IN 1" DIA LIQUID TIGHT FLEXIBLE CONDUIT (CKTS AS INDICATED ON THIS DRAWING)

## SEQUENCE OF WORK:

2006: WB I-57 OUTSIDE LANE

EB I-57 INSIDE LANE

2007: WB I-57 INSIDE LANE

EB I-57 OUTSIDE LANE



UL-03

REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION
NAMÉ	DATE	
		F.A.I. 90/94 (DAN RYAN EXPRESSWAY)
		31st STREET TO I-57
		UNDERPASS LIGHTING PLANS
		WENTWORTH AVENUE
		WENTWORTH AVENUE

SCALE: 1"=20'
DATE: OCTOBER 29, 2004

DRAWN BY: VG CHECKED BY: TM

F.A.I. RTE.	SECTIO	N	COUNTY	TOTAL	SHEET NO.
90/94	2003-031	I	COOK	976	359
STA.		TO	STA.	***************************************	
FED. ROA	D DIST. NO.	ILLINOIS	FED. AID	PROJECT	T
				6	2583



## NOTES

- 1. SEE DRAWINGS ME-01 AND ME-02 FOR ELECTRICAL SYMBOLS AND ABBREVIATIONS.
- 2. ALL PROPOSED UNDERPASS LUMINAIRES SHOWN ON THIS DRAWING SHALL BE PENDANT MOUNTED OFFSET 2 FEET FROM EDGE OF ROADWAY (EOR) UNLESS NOTED OTHERWISE. SEE DRAWING ME-OG FOR PENDANT MOUNTED UNDERPASS LIGHTING DETAILS.
- SPLICE NEW UNDERPASS LIGHTING CIRCUITS TO THE SERVICE CABLES LOCATED IN JUNCTION BOX. SEE DRAWING RLO5-04 FOR CONTINUATION OF UNDERPASS LIGHTING CIRCUIT FEEDS.
- ALL PROPOSED UNDERPASS LIGHTING UNITS SHOWN ON THIS DRAWING SHALL BE FED FROM IDOT LIGHTING CONTROLLER "A". SEE DRAWING SLOB-01 FOR SINGLE LINE DIAGRAM FOR LIGHTING CONTROLLER "A".
- 5. ALL PROPOSED UNDERPASS LIGHTING UNIT LOCATIONS SHALL BE APPROVED BY IDOT PRIOR TO INSTALLATION.
- 6. COORDINATE ALL ELECTRICAL WORK WITH CIVIL WORK, IDOT CONTRACTS 6294, CONSTRUCTION STAGING AND TRAFFIC CONTROL PLANS.

	JUNCTION BOX SCHEDULE						
NO.	SIZE	DESCRIPTION					
JB1	6"X6"X4"	STAINLESS STEEL, ATTACHED TO STRUCTURE, UNDERPASS LIGHTING					
JB2	12"X10"X6"	STAINLESS STEEL, ATTACHED TO STRUCTURE, UNDERPASS LIGHTING					

	CABLE /CONDUIT SCHEDULE
1	3-1/C*10, 1-1/C*10 GND IN 1" DIA PVCC RGC ATTACHED TO STRUCTURE (CKTS AS INDICATED ON THIS DRAWING)
2	2-1/C*10, 1-1/C*10 GND IN 1" DIA PVCC RGC ATTACHED TO STRUCTURE (CKTS AS INDICATED ON THIS DRAWING)
3	2-1/C*10, 1-1/C*10 GND IN 1" DIA LIQUID TIGHT FLEXIBLE CONDUIT (CKTS AS INDICATED ON THIS DRAWING)

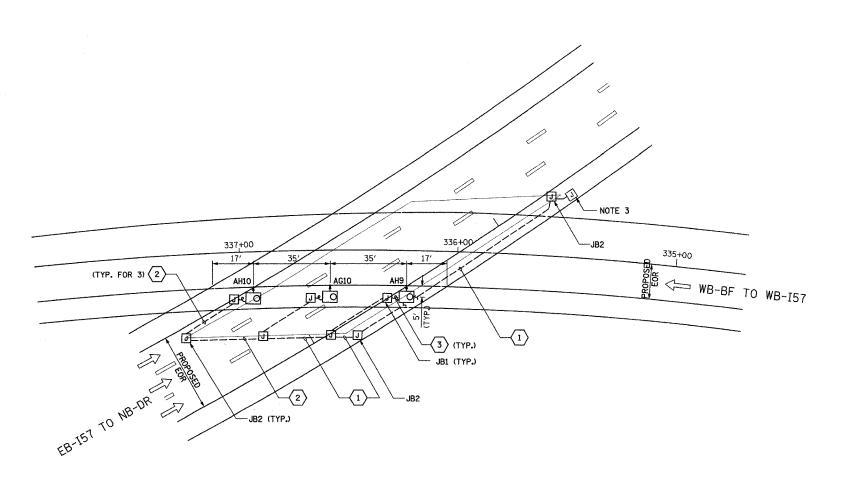
## SEQUENCE OF WORK:

2005 INSTALL ALL UNDERPASS LIGHTING



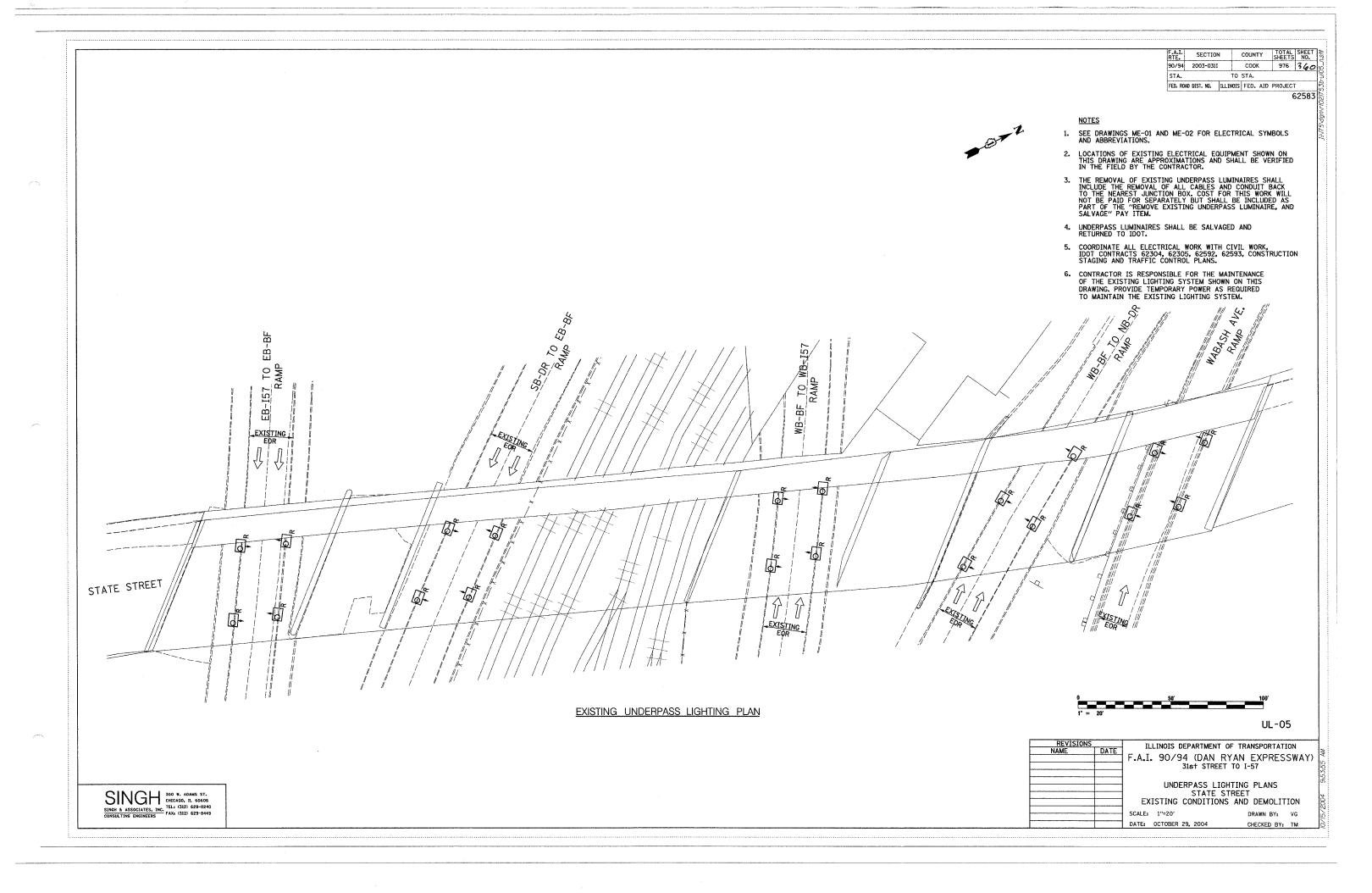
UL-04

REVISIONS NAME	DATE		. 90/94 (DAN	IT OF TRANSPORTATION RYAN EXPRESSY EET TO 1-57	
			NB-I57 TO OVER	IGHTING PLANS WB X-CONNECTOR MPROVEMENTS	
	-	SCALE:	1"=20'	DRAWN BY: VO	G
	1	DATE:	OCTOBER 29, 2004	CHECKED BY: Th	vI



PROPOSED UNDERPASS LIGHTING PLAN

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



90/94 2003-031I COOK 976 36; FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT JUNCTION BOX SCHEDULE CABLE /CONDUIT SCHEDULE 62583 SEE DRAWINGS ME-01 AND ME-02 FOR ELECTRICAL SYMBOLS AND ABBREVIATIONS. DESCRIPTION 3-1/C*10, 1-1/C*10 GND IN 1" DIA PVCC RGC ATTACHED TO STRUCTURE (CKTS AS INDICATED ON THIS DRAWING) STAINLESS STEEL, ATTACHED TO STRUCTURE, UNDERPASS LIGHTING ALL PROPOSED UNDERPASS LUMINAIRES SHOWN ON THIS DRAWING SHALL BE PENDANT MOUNTED OFFSET 2 FEET FROM EDGE OF ROADWAY (EOR) UNLESS NOTED OTHERWISE. SEE DRAWING ME-06 FOR PENDANT MOUNTED UNDERPASS LIGHTING DETAILS. 6"X6"X4" 2-1/C*10, 1-1/C*10 GND IN 1" DIA PVCC RGC ATTACHED TO STRUCTURE (CKTS AS INDICATED ON THIS DRAWING) STAINLESS STEEL, ATTACHED TO STRUCTURE, UNDERPASS LIGHTING 12"X10"X6" 2-1/C*10, 1-1/C*10 GND IN 1" DIA LIQUID TIGHT FLEXIBLE CONDUIT (CKTS AS INDICATED ON THIS DRAWING) 3. SPLICE NEW UNDERPASS LIGHTING CIRCUITS TO THE SERVICE CABLES LOCATED IN JUNCTION BOX. SEE DRAWING RLOS-06, RLOG-06, AND RLO7-06 FOR CONTINUATION OF UNDERPASS LIGHTING ALL PROPOSED UNDERPASS LIGHTING UNITS SHOWN ON THIS DRAWING SHALL BE FED FROM IDOT LIGHTING CONTROLLER "M". SEE DRAWING SLO8-02 FOR SINGLE LINE DIAGRAM FOR LIGHTING CONTROLLER "M". SEQUENCE OF WORK: 5. ALL PROPOSED UNDERPASS LIGHTING UNIT LOCATIONS SHALL BE APPROVED BY IDOT PRIOR TO INSTALLATION. 2006: WABASH AVE. RAMP 6. CONTRACTOR IS RESPONSIBLE FOR THE MAINTENANCE OF THE EXISTING LIGHTING SYSTEM SHOWN ON THIS DRAWING. PROVIDE TEMPORARY POWER AS REQUIRED TO MAINTAIN THE EXISTING LIGHTING SYSTEM. 2006: WB-BF TO WB I-57 2007: WB-BF TO NB-DR 2007: SB-DR TO EB-BF COORDINATE ALL ELECTRICAL WORK WITH CIVIL WORK, IDOT CONTRACTS 62304, 62305, 62592, 62593, CONSTRUCTION STAGING AND TRAFFIC CONTROL PLANS. 2007: EB I-57 TO EB-BF NOTE 3 -<u>₽</u> EB-TO RAMP 7 TO RAMP BF (TYP. FOR 3) (2) MA4 EB-PROPOSED EOR (TYP. FOR 3) 2 JB1 (TYP (TYP. FOR 2) (2)-2 MB7 O. -EXISTING BRIDGE PIER (TYP.) 2 (TYP. FOR 3) MA8 STATE STREET 2 (TYP. FOR 3 P MMa PROPOSED EOR (TYP.)(3)✓ NOTE 3 PROPOSED UNDERPASS LIGHTING PLAN UL-06 REVISIONS ILLINOIS DEPARTMENT OF TRANSPORTATION F.A.I. 90/94 (DAN RYAN EXPRESSWAY) 31st STREET TO I-57 UNDERPASS LIGHTING PLANS SINGH 300 W. ADAMS ST. CHICAGO, IL 60606
SINGH & ASSOCIATES, INC. TEL: (312) 629-0240
CONSULTING ENGINEERS FAX: (312) 629-8449 STATE STREET PROPOSED IMPROVEMENTS SCALE: 1"=20" DRAWN BY: VG DATE: OCTOBER 29, 2004 CHECKED BY: TM

COUNTY TOTAL SHEET NO.

SECTION

90/94 2003-031I STA.	COOK	976	362
STA			
JIA.	TO STA.		
FED. ROAD DIST. NO. ILLIN	OIS FED. AID	PROJECT	

#### NOTES

- 1. SEE DRAWINGS ME-01 AND ME-02 FOR ELECTRICAL SYMBOLS AND ABBREVIATIONS.
- 2. ALL PROPOSED UNDERPASS LUMINAIRES SHOWN ON THIS DRAWING SHALL BE PENDANT MOUNTED OFFSET 2 FEET FROM EDGE OF ROADWAY (EOR) UNLESS NOTED OTHERWISE. SEE DRAWING ME-06 FOR PENDANT MOUNTED UNDERPASS LIGHTING DETAILS.
- SPLICE NEW UNDERPASS LIGHTING CIRCUITS TO THE SERVICE CABLES LOCATED IN JUNCTION BOX. SEE DRAWING RL07-06 FOR CONTINUATION OF UNDERPASS LIGHTINGCIRCUIT FEEDS.
- ALL PROPOSED UNDERPASS LIGHTING UNITS SHOWN ON THIS DRAWING SHALL BE FED FROM IDOT LIGHTING CONTROLLER "A". SEE DRAWING SLO8-01 FOR SINGLE LINE DIAGRAM FOR LIGHTING CONTROLLER "A".
- 5. ALL PROPOSED UNDERPASS LIGHTING UNIT LOCATIONS SHALL BE APPROVED BY IDOT PRIOR TO INSTALLATION.
- COORDINATE ALL ELECTRICAL WORK WITH CIVIL WORK, IDOT CONTRACTS 62304, 62305, 62592, 62593, CONSTRUCTION STAGING AND TRAFFIC CONTROL PLANS.

	JUNCTION BOX SCHEDULE						
NO.	SIZE	DESCRIPTION					
JB1	6"X6"X4"	STAINLESS STEEL, ATTACHED TO STRUCTURE, UNDERPASS LIGHTING					
JB2	12"X10"X6"	STAINLESS STEEL, ATTACHED TO STRUCTURE, UNDERPASS LIGHTING					

	CABLE /CONDUIT SCHEDULE						
1	3-1/C*10, 1-1/C*10 GND IN 1" DIA PVCC RGC ATTACHED TO STRUCTURE (CKTS AS INDICATED ON THIS DRAWING)						
2	2-1/C*10, 1-1/C*10 GND IN 1" DIA PVCC RGC ATTACHED TO STRUCTURE (CKTS AS INDICATED ON THIS DRAWING)						
3	2-1/C*10, 1-1/C*10 GND IN 1" DIA LIQUID TIGHT FLEXIBLE CONDUIT (CKTS AS INDICATED ON THIS DRAWING)						

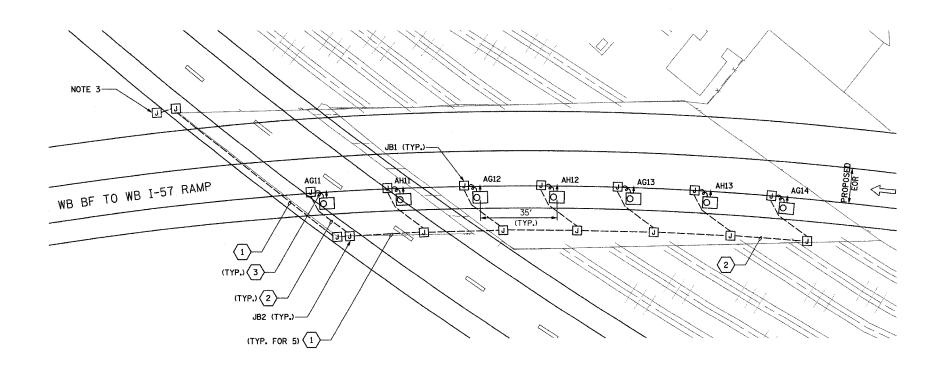
SEQUENCE OF WORK:

2007: ALL UNDERPASS LIGHTING



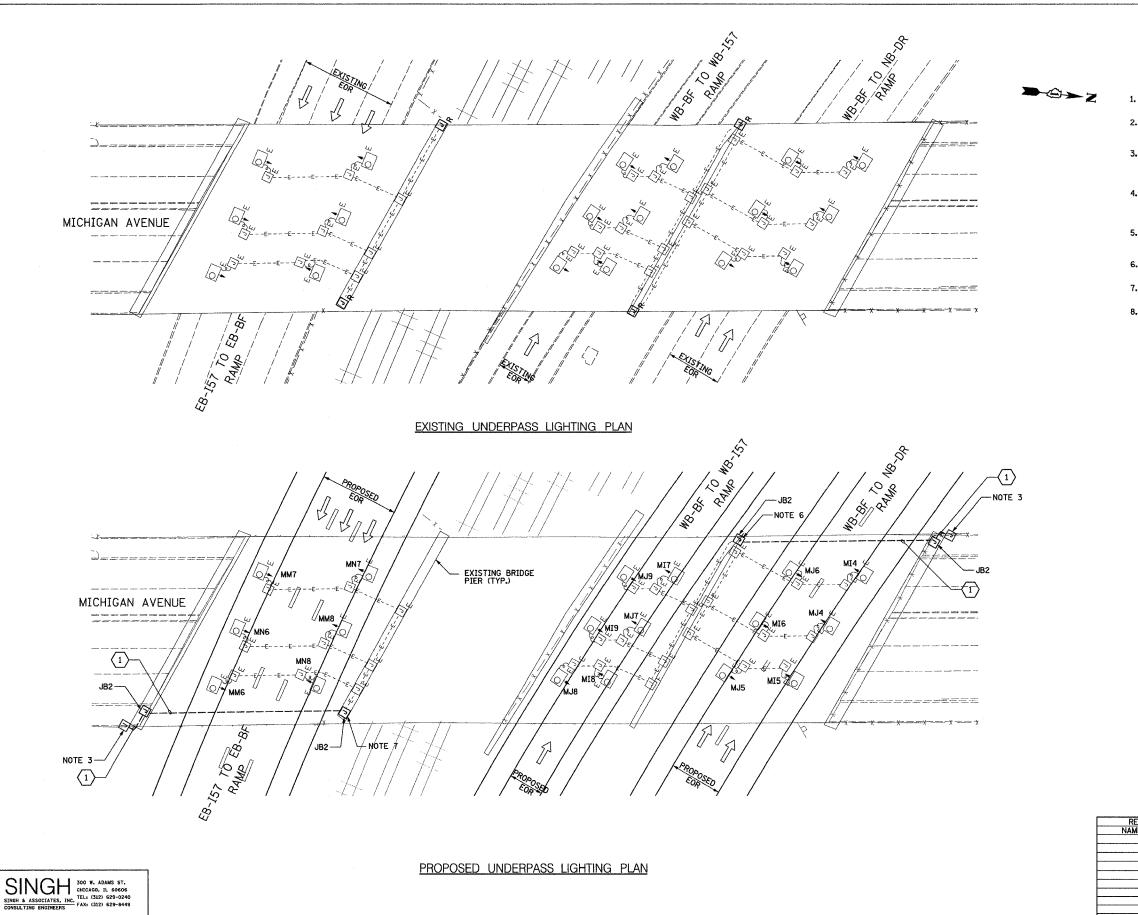
UL-07

REVISIONS		TII	INOIS DEPA	RTMENT OF T	PANSPORTATI	ON
NAME DATE I						
		F.A.I.	90/94	(DAN RYAN	I EXPRES	SWAY
			31s	STREET TO	I-57	
			LINDEDD	ASS LIGHTIN	C DI ANC	
				TO WB-157		
			PROPO:	SED IMPROV	EMENTS	
		SCALE:	1"=20"		DRAWN BY:	VG
					DRAWN DIE	VO
		DATE: C	OCTOBER 29, 2	2004	CHECKED BY:	TM



PROPOSED UNDERPASS LIGHTING PLAN

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



F.A.1. SECTION COUNTY TOTAL SHEET NO. 90/94 2003-0311 COOK 976 3.6.3 STA. TO STA. FED. ROAD DIST. NO. | ILLINOIS | FED. AID | PROJECT | 62583

NOTE

- 1. SEE DRAWINGS ME-01 AND ME-02 FOR ELECTRICAL SYMBOLS AND ABBREVIATIONS.
- LOCATIONS OF EXISTING ELECTRICAL EQUIPMENT SHOWN ON THIS DRAWING ARE APPROXIMATIONS AND SHALL BE VERIFIED IN THE FIELD BY THE CONTRACTOR.
- 3. SPLICE NEW UNDERPASS LIGHTING CIRCUITS TO THE SERVICE CABLES LOCATED IN JUNCTION BOX. SEE DRAWING RLOG-O7 AND RLO7-O7 FOR CONTINUATION OF UNDERPASS LIGHTING CIRCUIT FEEDS.
- ALL UNDERPASS LIGHTING UNITS SHOWN ON THIS DRAWING SHALL BE FED FROM IDOT LIGHTING CONTROLLER "M". SEE DRAWING SLO8-02 FOR SINGLE LINE DIAGRAM FOR LIGHTING CONTROLLER "M".
- 5. EXISTING UNDERPASS LIGHTING SHALL BE USED FOR PROPOSED LIGHTING. CHANGE CIRCUIT DESIGNATION TO MATCH PROPOSED.
- SPLICE EXISTING 3*10 AND 1*10 GND. TO CKT. I&J, FROM CONTROLLER "M".
- SPLICE EXISTING 3*10 AND 1*10 GND. TO CKT. M&N, FROM CONTROLLER "M".
- 8. COORDINATE ALL ELECTRICAL WORK WITH CIVIL WORK, IDOT CONTRACTS 62304, 62305, 62592, 62593, CONSTRUCTION STAGING AND TRAFFIC CONTROL PLANS.

	JUNCTION BOX SCHEDULE					
NO.	SIZE	DESCRIPTION				
JB2	12"X10"X6"	STAINLESS STEEL, ATTACHED TO STRUCTURE, UNDERPASS LIGHTING				

CABLE /CONDUIT SCHEDULE

3-1/C*10, 1-1/C*10 GND IN 1" DIA PVCC RGC ATTACHED TO STRUCTURE (CKTS AS INDICATED ON THIS DRAWING)

SEQUENCE OF WORK:

2006: WB BF TO NB-

2006: EB I-57 TO EB-BF NORTH SIDE

007: WB 1-57 TO FR-BE SOUTH S

2007: WB-BF TO WB I-



UL-08

CHECKED BY: TM

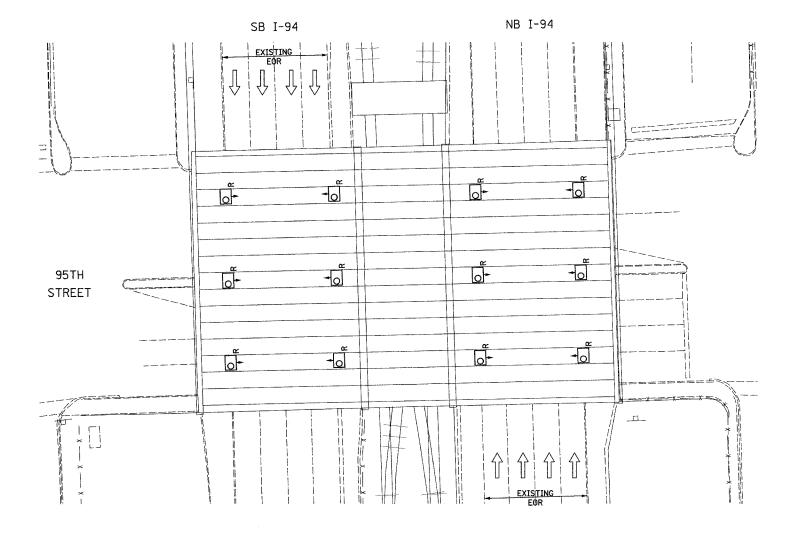
REVISIONS	ILLINOIS DEPARTMENT OF TRANSPORTATION				
NAME DATE					
	F.A.I.	. 90/94 (DAI	N RYAN EXPRESSWAY)		
	31st STREET TO I-57				
	1				
		UNDERPASS	LIGHTING PLANS		
			AN AVENUE		
	SCALE:	1"=20"	DRAWN BY, VC		

DATE: OCTOBER 29, 2004

| F.A.L | SECTION | COUNTY | TOTAL | SHEET | NO. | 190/94 | 2003-0311 | COOK | 976 | 3 € 9 | STA. | TO STA. | FED. ROAD DIST. NO. | ILLINOIS | FED. AID | PROJECT | 62583

NOTE

- 1. SEE DRAWINGS ME-01 AND ME-02 FOR ELECTRICAL SYMBOLS AND ABBREVIATIONS.
- LOCATIONS OF EXISTING ELECTRICAL EQUIPMENT SHOWN ON THIS DRAWING ARE APPROXIMATIONS AND SHALL BE VERIFIED IN THE FIELD BY THE CONTRACTOR.
- 3. THE REMOVAL OF EXISTING UNDERPASS LUMINAIRES SHALL INCLUDE THE REMOVAL OF ALL CABLES AND CONDUIT BACK TO THE NEAREST JUNCTION BOX. COST FOR THIS WORK WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED AS PART OF THE "REMOVE EXISTING UNDERPASS LUMINAIRE, AND SALVAGE" PAY ITEM.
- 4. UNDERPASS LUMINAIRES SHALL BE SALVAGED AND RETURNED TO IDOT.
- 5. COORDINATE ALL ELECTRICAL WORK WITH CIVIL WORK, IDOT CONTRACTS 62304, 62305, 62592, 62593, CONSTRUCTION STAGING AND TRAFFIC CONTROL PLANS.
- 6. CONTRACTOR IS RESPONSIBLE FOR THE MAINTENANCE OF THE EXISTING LIGHTING SYSTEM SHOWN ON THIS DRAWING. PROVIDE TEMPORARY POWER AS REQUIRED TO MAINTAIN THE EXISTING LIGHTING SYSTEM.



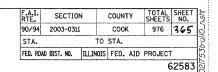
EXISTING UNDERPASS LIGHTING PLAN



UL-09

REVISIONS		TIIT	NOTS DE	PARTMENT OF	TRANSP	ORTATI	DN.
NAME [	DATE	F.A.I. 90/94 (DAN RYAN EXPR					
				PASS LIGH 95TH STF	REET		
		EXIS	TING C	ONDITIONS	AND DE	MOLITI	ON
		SCALE: 1	"=20 <b>'</b>		DRAW	N BY:	VG
-		DATE: OC	TOBER 29	2004	CHECK	KED BY:	TM

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



NOTES

- 1. SEE DRAWINGS ME-01 AND ME-02 FOR ELECTRICAL SYMBOLS AND ABBREVIATIONS.
- 2. ALL PROPOSED UNDERPASS LUMINAIRES SHOWN ON THIS DRAWING SHALL BE PENDANT MOUNTED OFFSET 2 FEET FROM EDGE OF ROADWAY (EOR) UNLESS NOTED OTHERWISE. SEE DRAWING ME-06 FOR PENDANT MOUNTED UNDERPASS LIGHTING DETAILS.
- SPLICE NEW UNDERPASS LIGHTING CIRCUITS TO THE SERVICE CABLES LOCATED IN JUNCTION BOX. SEE DRAWING RLO6-10 AND RLO7-10 FOR CONTINUATION OF UNDERPASS LIGHTING CIRCUIT FEEDS.
- ALL PROPOSED UNDERPASS LIGHTING UNITS SHOWN ON THIS DRAWING SHALL BE FED FROM IDOT LIGHTING CONTROLLER "O". SEE DRAWING SLOB-03 FOR SINGLE LINE DIAGRAM FOR LIGHTING CONTROLLER "O".
- 5. ALL PROPOSED UNDERPASS LIGHTING UNIT LOCATIONS SHALL BE APPROVED BY IDOT PRIOR TO INSTALLATION.
- 6. COORDINATE ALL ELECTRICAL WORK WITH CIVIL WORK, IDOT CONTRACTS 62304, 62305, 62592, 62593, CONSTRUCTION STAGING AND TRAFFIC CONTROL PLANS.

	JUNCTION BOX SCHEDULE					
NO.	SIZE	DESCRIPTION				
JB1	6"X6"X4"	STAINLESS STEEL, ATTACHED TO STRUCTURE, UNDERPASS LIGHTING				
JB2	12"X10"X6"	STAINLESS STEEL, ATTACHED TO STRUCTURE, UNDERPASS LIGHTING				

CABLE /CONDUIT SCHEDULE						
1	3-1/C*10, 1-1/C*10 GND IN 1" DIA PVCC RGC ATTACHED TO STRUCTURE (CKTS AS INDICATED ON THIS DRAWING)					
2	2-1/C*10, 1-1/C*10 GND IN 1" DIA PVCC RGC ATTACHED TO STRUCTURE (CKTS AS INDICATED ON THIS DRAWING)					
3	2-1/C*10, 1-1/C*10 GND IN 1" DIA LIQUID TIGHT FLEXIBLE CONDUIT (CKTS AS INDICATED ON THIS DRAWING)					

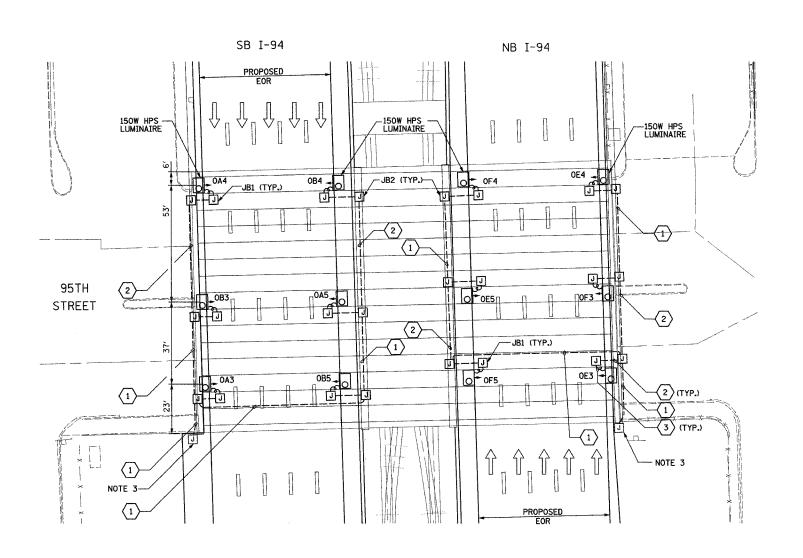
## SEQUENCE OF WORK:

2006: OUTSIDE LANES, NB I-94 AND SB I-94 2007: INSIDE LANES, NB I-94 AND SB I-94



UL-10

REVISIONS	ILLINOIS DEPARTMENT OF	TRANSPORTATION	
NAME DAT	F.A.I. 90/94 (DAN RYAN EXPRESSWAY)		
	31st STREET 1		
	UNDERPASS LIGHT		
	PROPOSED IMPRO		
	SCALE: 1"=20"	DRAWN BY: VG	
	DATE: OCTOBER 29, 2004	CHECKED BY: TM	



PROPOSED UNDERPASS LIGHTING PLAN

SINGH & ASSOCIATES, INC.
CONSULTING ENGINEERS

SINGH & ASSOCIATES, INC.
FAX: (312) 629-0240

F.A.I. RTE.	SECTIO	N	COUNT	Y	TOTAL SHEETS	SHEET NO.
90/94	2003-031	I	COOK		976	366
STA.		1	O STA.			
FED. ROA	D DIST. NO.	ILLIN	OIS FED.	AID	PROJECT	
					6	2583

## NOTES

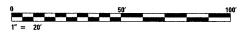
- 1. SEE DRAWINGS ME-01 AND ME-02 FOR ELECTRICAL SYMBOLS AND ABBREVIATIONS.
- 2. ALL PROPOSED UNDERPASS LUMINAIRES SHOWN ON THIS DRAWING SHALL BE PENDANT MOUNTED OFFSET 2 FEET FROM EDGE OF ROADWAY (EOR) UNLESS NOTED OTHERWISE. SEE DRAWING ME-OG FOR PENDANT MOUNTED UNDERPASS LIGHTING DETAILS.
- SPLICE NEW UNDERPASS LIGHTING CIRCUITS TO THE SERVICE CABLES LOCATED IN JUNCTION BOX. SEE DRAWING RLO6-10 AND RLO7-10 FOR CONTINUATION OF UNDERPASS LIGHTING CIRCUIT FEEDS.
- ALL PROPOSED UNDERPASS LIGHTING UNITS SHOWN ON THIS DRAWING SHALL BE FED FROM IDOT LIGHTING CONTROLLER "O". SEE DRAWING SLO8-03 FOR SINGLE LINE DIAGRAM FOR LIGHTING CONTROLLER "O".
- 5. ALL PROPOSED UNDERPASS LIGHTING UNIT LOCATIONS SHALL BE APPROVED BY IDOT PRIOR TO INSTALLATION.
- COORDINATE ALL ELECTRICAL WORK WITH CIVIL WORK, IDOT CONTRACTS 62304, 62305, 62592, 62593, CONSTRUCTION STAGING AND TRAFFIC CONTROL PLANS.

	JUNCTION BOX SCHEDULE					
NO.	SIZE	DESCRIPTION				
JB1	6"X6"X4"	STAINLESS STEEL, ATTACHED TO STRUCTURE, UNDERPASS LIGHTING				
JB2	12"X10"X6"	STAINLESS STEEL, ATTACHED TO STRUCTURE, UNDERPASS LIGHTING				

	CABLE /CONDUIT SCHEDULE						
1	3-1/C*10, 1-1/C*10 GND IN 1" DIA PVCC RGC ATTACHED TO STRUCTURE (CKTS AS INDICATED ON THIS DRAWING)						
2	2-1/C*10, 1-1/C*10 GND IN 1" DIA PVCC RGC ATTACHED TO STRUCTURE (CKTS AS INDICATED ON THIS DRAWING)						
(3)	2-1/C*10, 1-1/C*10 GND IN 1" DIA LIQUID TIGHT FLEXIBLE CONDUIT (CKTS AS INDICATED ON THIS DRAWING)						

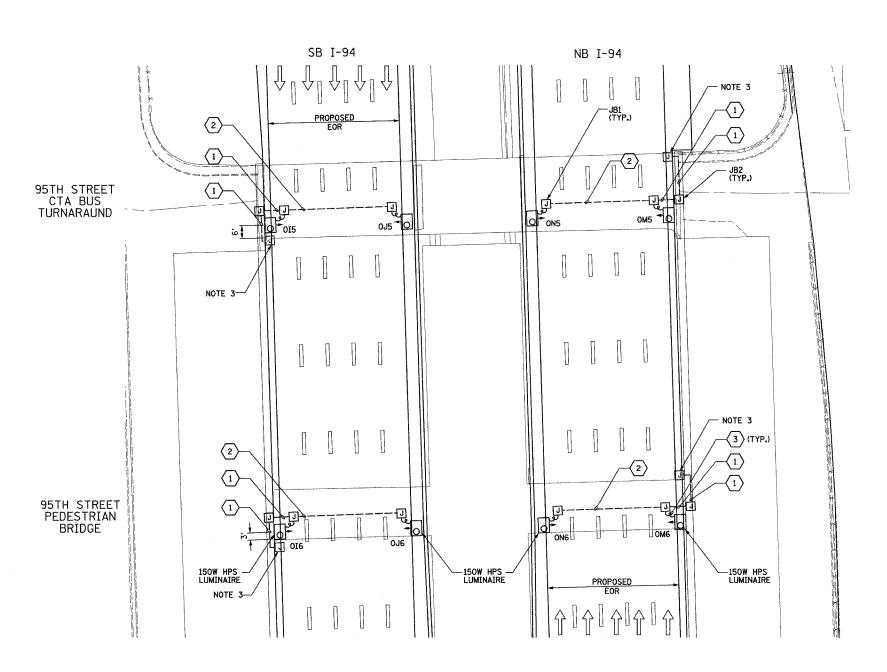
## SEQUENCE OF WORK:

2006: OUTSIDE LANES, NB I-94 AND SB I-94 2007: INSIDE LANES, NB I-94 AND SB I-94



UL-11

REVISIONS	ILLINOIS DEPARTMENT OF TRANSPORTATION		
NAME DATE			
	F.A.I. 90/94 (DAN RYAN	EXPRESSWAY)	
	31st STREET TO I-57		
	UNDERPASS LIGHTIN	G PLANS	
	95TH STREET CTA BUS TU		
	PEDESTRIAN BR		
	PROPOSED IMPROVE	EMENTS	
	SCALE: 1"=20"	DRAWN BY: VG	
	DATE: OCTOBER 29, 2004	CHECKED BY: TM	

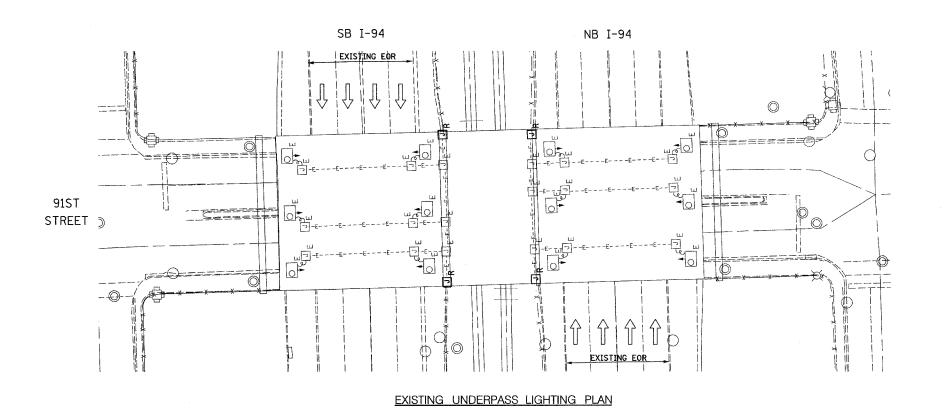


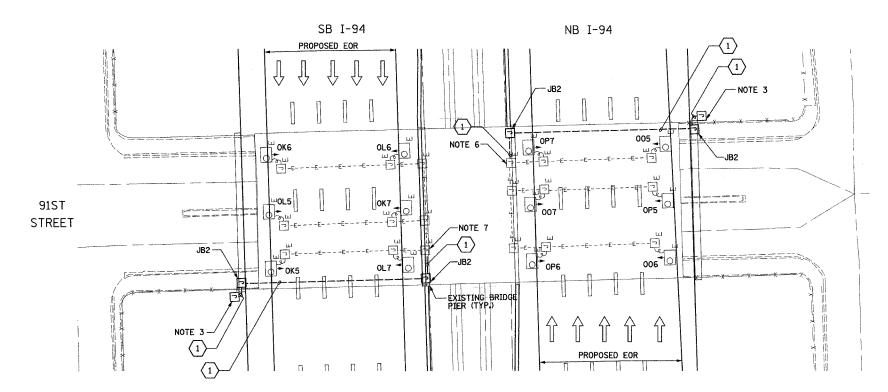
PROPOSED UNDERPASS LIGHTING PLAN

SINGH & ASSOCIATES, INC.
CONSULTING ENGINEERS

SINGH & ASSOCIATES, INC.
CONSULTING ENGINEERS

TAX: (312) 629-0240
FAX: (312) 629-8449





PROPOSED UNDERPASS LIGHTING PLAN

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

NOTES

- 1. SEE DRAWINGS ME-01 AND ME-02 FOR ELECTRICAL SYMBOLS AND ABBREVIATIONS.
- LOCATIONS OF EXISTING ELECTRICAL EQUIPMENT SHOWN ON THIS DRAWING ARE APPROXIMATIONS AND SHALL BE VERIFIED IN THE FIELD BY THE CONTRACTOR.
- SPLICE NEW UNDERPASS LIGHTING CIRCUITS TO THE SERVICE CABLES LOCATED IN JUNCTION BOX, SEE DRAWING RLO6-12 AND RLO7-12 FOR CONTINUATION OF UNDERPASS LIGHTING CIRCUIT FEEDS.
- 4. ALL PROPOSED UNDERPASS LIGHTING UNITS SHOWN ON THIS DRAWING SHALL BE FED FROM IDOT LIGHTING CONTROLLER "0". SEE DRAWING SLOB-03 FOR SINGLE LINE DIAGRAM FOR LIGHTING CONTROLLER "0".
- 5. EXISTING UNDERPASS LIGHTING SHALL BE USED FOR PROPOSED LIGHTING. CHANGE CIRCUIT DESIGNATION TO MATCH PROPOSED.
- SPLICE EXISTING 3*10 AND 1*10 GND. TO CKT. 0&P, FROM CONTROLLER "0".
- SPLICE EXISTING 3*10 AND 1*10 GND. TO CKT. K&L, FROM CONTROLLER "O".
- 8. CONTRACTOR IS RESPONSIBLE FOR THE MAINTENANCE OF THE EXISTING LIGHTING SYSTEM SHOWN ON THIS DRAWING. PROVIDE TEMPORARY POWER AS REQUIRED TO MAINTAIN THE EXISTING LIGHTING SYSTEM.
- COORDINATE ALL ELECTRICAL WORK WITH CIVIL WORK, IDOT CONTRACTS 62304, 62305, 62592, 62593, CONSTRUCTION STAGING AND TRAFFIC CONTROL PLANS.

	JUNCTI	ON BOX SCHEDULE
NO.	SIZE	DESCRIPTION
JB2	12"X10"X6"	STAINLESS STEEL, ATTACHED TO STRUCTURE, UNDERPASS LIGHTING

CABLE /CONDUIT SCHEDULE

3-1/C*10, 1-1/C*10 GND IN 1" DIA PVCC RGC ATTACHED TO STRUCTURE (CKTS AS INDICATED ON THIS DRAWING)

SEQUENCE OF WORK:

2006: OUTSIDE LANES, NB I-94 AND SB I-94
2007: INSIDE LANES, NB I-94 AND SB I-94



UL-12

REVISIONS NAME D	F.A.I. 90/94	PARTMENT OF TRANSPORTATION  (DAN RYAN EXPRESSWAY)  (1s+ STREET TO I-57  RPASS LIGHTING PLANS  91ST STREET
	SCALE: 1"=20"	DRAWN BY: VG
· · · · · · · · · · · · · · · · · · ·	DATE: OCTOBER 25	9 2004 CHECKED BY. TM

SB I-94 NB I-94 -6 **4**0[™] **□*** **-**© NORTHERN SPAN -6 -0 C&WI RR CENTRAL SPAN <del>-</del>0 C&WI RR SOUTHERN SPAN f l EXISTING EOR EXISTING UNDERPASS LIGHTING PLAN

F.A.I. SECTION 90/94 2003-0311 SECTION COUNTY TOTAL SHEET SHEETS NO. COOK 976 368 STA. TO STA. FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT 62583

NOTES

- 1. SEE DRAWINGS ME-01 AND ME-02 FOR ELECTRICAL SYMBOLS AND ABBREVIATIONS.
- 2. LOCATIONS OF EXISTING ELECTRICAL EQUIPMENT SHOWN ON THIS DRAWING ARE APPROXIMATIONS AND SHALL BE VERIFIED IN THE FIELD BY THE CONTRACTOR.
- 3. THE REMOVAL OF EXISTING UNDERPASS LUMINAIRES SHALL INCLUDE THE REMOVAL OF ALL CABLES AND CONDUIT BACK TO THE NEAREST JUNCTION BOX, COST FOR THIS WORK WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED AS PART OF THE "REMOVE EXISTING UNDERPASS LUMINAIRE, AND SALVAGE" PAY ITEM.
- 4. UNDERPASS LUMINAIRES SHALL BE SALVAGED AND RETURNED TO IDOT.
- 5. COORDINATE ALL ELECTRICAL WORK WITH CIVIL WORK, IDOT CONTRACTS 62304, 62305, 62592, 62593, CONSTRUCTION STAGING AND TRAFFIC CONTROL PLANS.
- 6. CONTRACTOR IS RESPONSIBLE FOR THE MAINTENANCE OF THE EXISTING LIGHTING SYSTEM SHOWN ON THIS DRAWING. PROVIDE TEMPORARY POWER AS REQUIRED TO MAINTAIN THE EXISTING LIGHTING SYSTEM.

0 50'

UL-13

REVISIONS		TILINOIS DEPARTME	NT OF TRANSPORTATION
NAME	DATE		I
			REET TO I-57
			LIGHTING PLANS
			IONS AND DEMOLITION
	ļ	SCALE: 1"=20"	DRAWN BY: VG
	<b>T</b>	DATE: OCTOBER 29, 2004	CHECKED BY: TM

SINGH & ASSOCIATES, INC.
CONSULTING ENGINEERS FAX: (312) 629-0240

SB I-94 NB I-94 PROPOSED EOR 0L10 0К10 📗 -JB2 OK11 -() OP13 - NOTE 3 □ OL11 물레0012 JB2 -ОК9 — JB1 (TYPICAL UNO) NORTHERN SPAN 009 NOTE 3-1 1 NOTE 3 OP11 C&WI RR CENTRAL SPAN (TYP.) BRIDGE PIER (TYP.) 0P10 \$ C&WI RR SOUTHERN SPAN NOTE 3 -PROPOSED EOR PROPOSED UNDERPASS LIGHTING PLAN

62583

### NOTES

- SEE DRAWINGS ME-01 AND ME-02 FOR ELECTRICAL SYMBOLS AND ABBREVIATIONS.
- ALL PROPOSED UNDERPASS LUMINAIRES SHOWN ON THIS DRAWING SHALL BE PIER OR ABUTMENT WALL MOUNTED AS SHOWN. SEE DRAWING ME-O7 FOR PIER/ABUTMENT MOUNTED UNDERPASS LIGHTING DETAILS.
- SPLICE NEW UNDERPASS LIGHTING CIRCUITS TO THE SERVICE CABLES LOCATED IN JUNCTION BOX. SEE DRAWING RLO6-12 AND RLO7-12 FOR CONTINUATION OF UNDERPASS LIGHTING CIRCUIT FEEDS.
- ALL PROPOSED UNDERPASS LIGHTING UNITS SHOWN ON THIS DRAWING SHALL BE FED FROM IDOT LIGHTING CONTROLLER "0". SEE DRAWING SLOB-03 FOR SINGLE LINE DIAGRAM FOR LIGHTING CONTROLLER "0".
- 5. ALL PROPOSED UNDERPASS LIGHTING UNIT LOCATIONS SHALL BE APPROVED BY IDOT PRIOR TO INSTALLATION.
- COORDINATE ALL ELECTRICAL WORK WITH CIVIL WORK, IDOT CONTRACTS 62304, 62305, 62592, 62593, CONSTRUCTION STAGING AND TRAFFIC CONTROL PLANS.

	JUNCTIO	ON BOX SCHEDULE
NO.	SIZE	DESCRIPTION
JB1	6"X6"X4"	STAINLESS STEEL, ATTACHED TO STRUCTURE, UNDERPASS LIGHTING
JB2	12"X10"X6"	STAINLESS STEEL, ATTACHED TO STRUCTURE, UNDERPASS LIGHTING

	CABLE /CONDUIT SCHEDULE
1	3-1/C*10, 1-1/C*10 GND IN 1" DIA PVCC RGC ATTACHED TO STRUCTURE (CKTS AS INDICATED ON THIS DRAWING)
(2)	2-1/C*10, 1-1/C*10 GND IN 1" DIA PVCC RGC ATTACHED TO STRUCTURE (CKTS AS INDICATED ON THIS DRAWING)
(3)	2-1/C*10, 1-1/C*10 GND IN 1" DIA LIQUID TIGHT FLEXIBLE CONDUIT (CKTS AS INDICATED ON THIS DRAWING)

## SEQUENCE OF WORK:

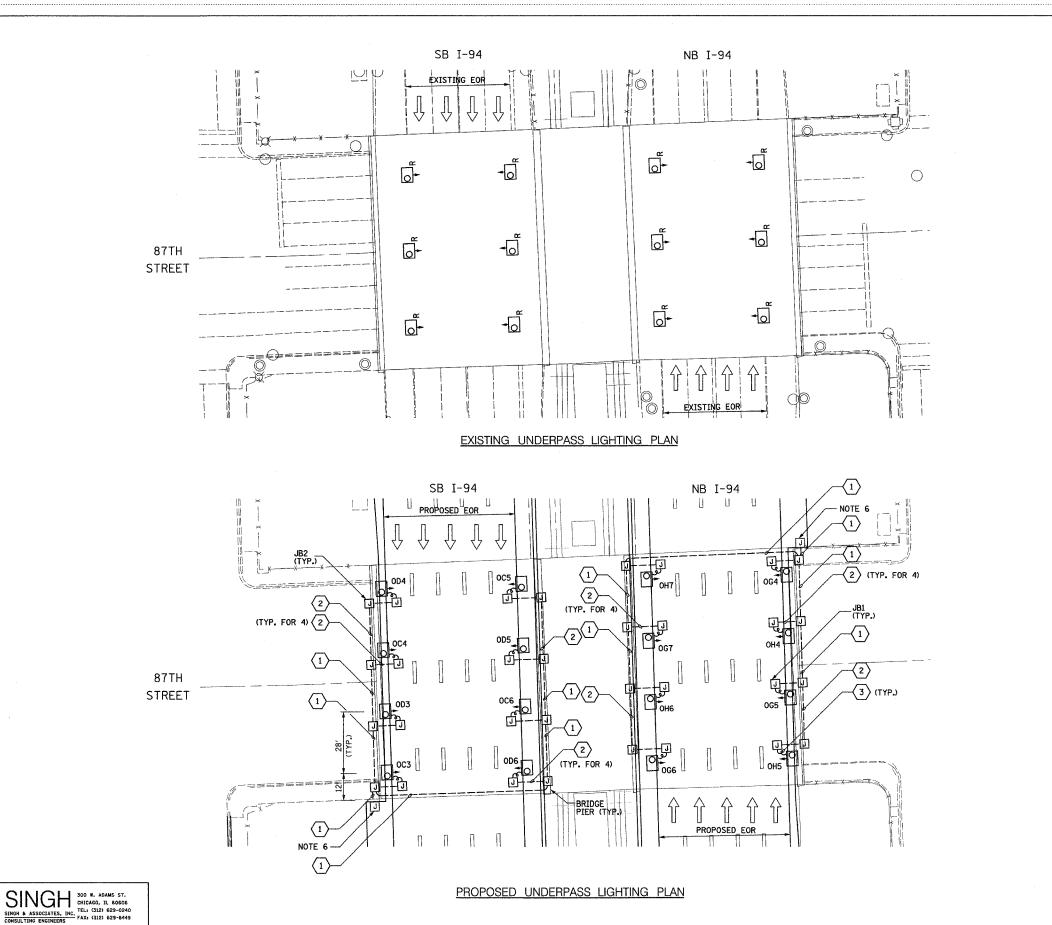
2006: OUTSIDE LANES, NB I-94 AND SB I-94 2007: INSIDE LANES, NB I-94 AND SB I-94



UL-14

REVISIONS NAME	DATE			OF TRANSPORTATION RYAN EXPRESSWAY IT TO I-57
			UNDERPASS LI C&WI RR OVE PROPOSED IN	R FAI-90/94
	1	SCALE:	1"=20' OCTOBER 29, 2004	DRAWN BY: VG CHECKED BY: TM

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



62583

NOTES

- SEE DRAWINGS ME-01 AND ME-02 FOR ELECTRICAL SYMBOLS AND ABBREVIATIONS.
- 2. LOCATIONS OF EXISTING ELECTRICAL EQUIPMENT SHOWN ON THIS DRAWING ARE APPROXIMATIONS AND SHALL BE VERIFIED IN THE FIELD BY THE CONTRACTOR.
- 3. THE REMOVAL OF EXISTING UNDERPASS LUMINAIRES SHALL INCLUDE THE REMOVAL OF ALL CABLES AND CONDUIT BACK TO THE NEAREST JUNCTION BOX. COST FOR THIS WORK WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED AS PART OF THE "REMOVE EXISTING UNDERPASS LUMINAIRE, AND SALVAGE" PAY ITEM.
- UNDERPASS LUMINAIRES SHALL BE SALVAGED AND RETURNED TO IDOT.
- 5. ALL PROPOSED UNDERPASS LUMINAIRES SHOWN ON THIS DRAWING SHALL BE PENDANT MOUNTED OFFSET 2 FEET FROM EDGE OF ROADWAY (EOR) UNLESS NOTED OTHERWISE. SEE DRAWING ME-O6 FOR PENDANT MOUNTED UNDERPASS LIGHTING DETAILS.
- 6. SPLICE NEW UNDERPASS LIGHTING CIRCUITS TO THE SERVICE CABLES LOCATED IN JUNCTION BOX. SEE DRAWING RLO6-14 AND RLO7-14 FOR CONTINUATION OF UNDERPASS LIGHTING CIRCUIT FEEDS.
- ALL PROPOSED UNDERPASS LIGHTING UNITS SHOWN ON THIS DRAWING SHALL BE FED FROM IDOT LIGHTING CONTROLLER "O". SEE DRAWING SLO8-03 FOR SINGLE LINE DIAGRAM FOR LIGHTING CONTROLLER "O".
- 8. ALL PROPOSED UNDERPASS LIGHTING UNIT LOCATIONS SHALL BE APPROVED BY IDOT PRIOR TO INSTALLATION.
- CONTRACTOR IS RESPONSIBLE FOR THE MAINTENANCE OF THE EXISTING LIGHTING SYSTEM SHOWN ON THIS DRAWING. PROVIDE TEMPORARY POWER AS REQUIRED TO MAINTAIN THE EXISTING LIGHTING SYSTEM.
- COORDINATE ALL ELECTRICAL WORK WITH CIVIL WORK, IDOT CONTRACTS 62304, 62305, 62592, 62593, CONSTRUCTION STAGING AND TRAFFIC CONTROL PLANS.

	JUNCTI	ON BOX SCHEDULE
NO.	SIZE	DESCRIPTION
JB1	6"X6"X4"	STAINLESS STEEL, ATTACHED TO STRUCTURE, UNDERPASS LIGHTING
JB2	12"X10"X6"	STAINLESS STEEL, ATTACHED TO STRUCTURE, UNDERPASS LIGHTING

	CABLE /CONDUIT SCHEDULE
1	3-1/C*10, 1-1/C*10 GND IN 1" DIA PVCC RGC ATTACHED TO STRUCTURE (CKTS AS INDICATED ON THIS DRAWING)
2	2-1/C*10, 1-1/C*10 GND IN 1" DIA PVCC RGC ATTACHED TO STRUCTURE (CKTS AS INDICATED ON THIS DRAWING)
(3)	2-1/C*10, 1-1/C*10 GND IN 1" DIA LIQUID TIGHT FLEXIBLE CONDUIT (CKTS AS INDICATED ON THIS DRAWING)

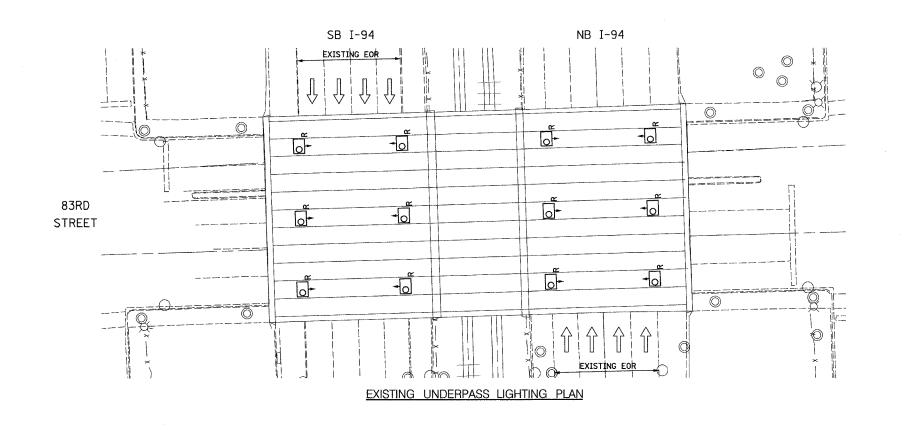
### SEQUENCE OF WORK:

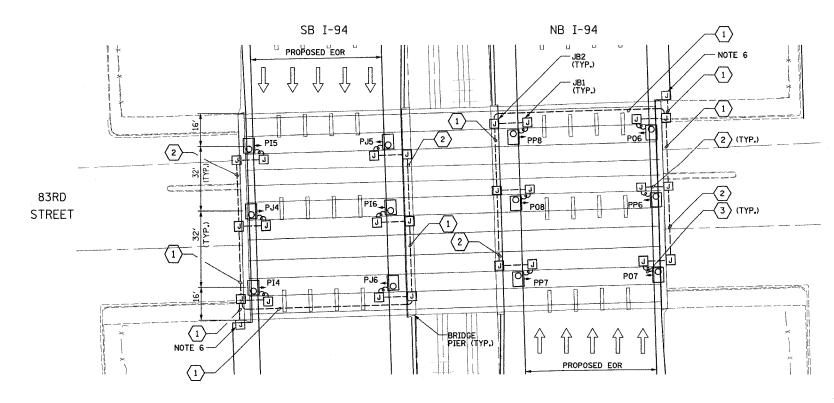
2006: OUTSIDE LANES, NB I-94 AND SB I-94 2007: INSIDE LANES, NB I-94 AND SB I-94



UL-15

REVISIONS NAME	DATE	I	. 90/94 31	ARTMENT OF TO (DAN RYAN st STREET TO PASS LIGHTIN 87TH STREE	I EXPRES	
		SCALE:	1''=20'		DRAWN BY:	VG
		DATE:	OCTOBER 29,	2004	CHECKED BY:	TM





PROPOSED UNDERPASS LIGHTING PLAN

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

62583

NOTES

- 1. SEE DRAWINGS ME-01 AND ME-02 FOR ELECTRICAL SYMBOLS AND ABBREVIATIONS.
- LOCATIONS OF EXISTING ELECTRICAL EQUIPMENT SHOWN ON THIS DRAWING ARE APPROXIMATIONS AND SHALL BE VERIFIED IN THE FIELD BY THE CONTRACTOR.
- 3. THE REMOVAL OF EXISTING UNDERPASS LUMINAIRES SHALL INCLUDE THE REMOVAL OF ALL CABLES AND CONDUIT BACK TO THE NEAREST JUNCTION BOX. COST FOR THIS WORK WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED AS PART OF THE "REMOVE EXISTING UNDERPASS LUMINAIRE, AND SALVAGE" PAY ITEM.
- 4. UNDERPASS LUMINAIRES SHALL BE SALVAGED AND RETURNED TO IDOT.
- 5. ALL PROPOSED UNDERPASS LUMINAIRES SHOWN ON THIS DRAWING SHALL BE PENDANT MOUNTED OFFSET 2 FEET FROM EDGE OF ROADWAY (EOR) UNLESS NOTED OTHERWISE. SEE DRAWING ME-06 FOR PENDANT MOUNTED UNDERPASS LIGHTING DETAILS.
- 6. SPLICE NEW UNDERPASS LIGHTING CIRCUITS TO THE SERVICE CABLES LOCATED IN JUNCTION BOX. SEE DRAWING RLO6-16 AND RLO7-16 FOR CONTINUATION OF UNDERPASS LIGHTING CIRCUIT FEEDS.
- ALL PROPOSED UNDERPASS LIGHTING UNITS SHOWN ON THIS DRAWING SHALL BE FED FROM IDOT LIGHTING CONTROLLER "P". SEE DRAWING SLO8-04 FOR SINGLE LINE DIAGRAM FOR LIGHTING CONTROLLER "P".
- 8. ALL PROPOSED UNDERPASS LIGHTING UNIT LOCATIONS SHALL BE APPROVED BY IDOT PRIOR TO INSTALLATION.
- CONTRACTOR IS RESPONSIBLE FOR THE MAINTENANCE OF THE EXISTING LIGHTING SYSTEM SHOWN ON THIS DRAWING, PROVIDE TEMPORARY POWER AS REQUIRED TO MAINTAIN THE EXISTING LIGHTING SYSTEM.
- 10. COORDINATE ALL ELECTRICAL WORK WITH CIVIL WORK, IDOT CONTRACTS 62304, 62305, 62592, 62593, CONSTRUCTION STAGING AND TRAFFIC CONTROL PLANS.

		JUNCTIO	ON BOX SCHEDULE
N	0.	SIZE	DESCRIPTION
JI	B1	6"X6"X4"	STAINLESS STEEL, ATTACHED TO STRUCTURE, UNDERPASS LIGHTING
JI	B2	12"X10"X6"	STAINLESS STEEL, ATTACHED TO STRUCTURE, UNDERPASS LIGHTING

	CABLE /CONDUIT SCHEDULE
$\left\langle 1\right\rangle$	3-1/C*10, 1-1/C*10 GND IN 1" DIA PVCC RGC ATTACHED TO STRUCTURE (CKTS AS INDICATED ON THIS DRAWING)
2	2-1/C*10, 1-1/C*10 GND IN 1" DIA PVCC RGC ATTACHED TO STRUCTURE (CKTS AS INDICATED ON THIS DRAWING)
3	2-1/C*10, 1-1/C*10 GND IN 1" DIA LIQUID TIGHT FLEXIBLE CONDUIT (CKTS AS INDICATED ON THIS DRAWING)

## SEQUENCE OF WORK:

2006: OUTSIDE LANES, NB I-94 AND SB I-94 2007: INSIDE LANES, NB I-94 AND SB I-94

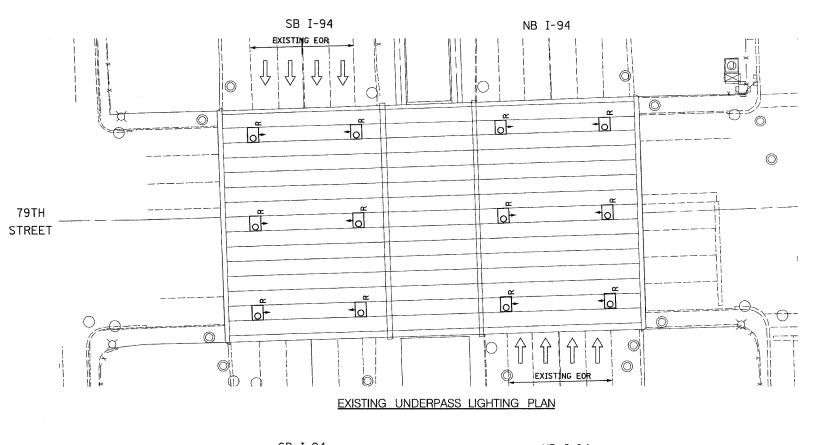


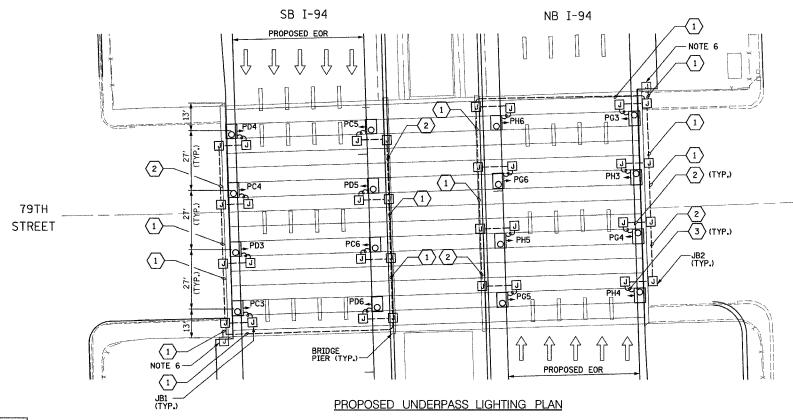
UL-16

		83RD	STREET	
sc.	LE: 1"=20'		DRAWN BY:	VG

SINGH & ASSOCIATES, INC.
CONSULTING ENGINEERS

STORY & ASSOCIATES, INC.
FAX: (312) 629-0240
FAX: (312) 629-8449





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

62583

#### NO.

- SEE DRAWINGS ME-01 AND ME-02 FOR ELECTRICAL SYMBOLS AND ABBREVIATIONS.
- LOCATIONS OF EXISTING ELECTRICAL EQUIPMENT SHOWN ON THIS DRAWING ARE APPROXIMATIONS AND SHALL BE VERIFIED IN THE FIELD BY THE CONTRACTOR.
- 3. THE REMOVAL OF EXISTING UNDERPASS LUMINAIRES SHALL INCLUDE THE REMOVAL OF ALL CABLES AND CONDUIT BACK TO THE NEAREST JUNCTION BOX. COST FOR THIS WORK WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED AS PART OF THE "REMOVE EXISTING UNDERPASS LUMINAIRE, AND SALVAGE" PAY ITEM.
- 4. UNDERPASS LUMINAIRES SHALL BE SALVAGED AND RETURNED TO IDOT.
- 5. ALL PROPOSED UNDERPASS LUMINAIRES SHOWN ON THIS DRAWING SHALL BE PENDANT MOUNTED OFFSET 2 FEET FROM EDGE OF ROADWAY (EOR) UNLESS NOTED OTHERWISE. SEE DRAWING ME-O6 FOR PENDANT MOUNTED UNDERPASS LIGHTING DETAILS.
- SPLICE NEW UNDERPASS LIGHTING CIRCUITS TO THE SERVICE CABLES LOCATED IN JUNCTION BOX. SEE DRAWING RLO6-18 AND RLO7-18 FOR CONTINUATION OF UNDERPASS LIGHTING CIRCUIT FEEDS.
- ALL PROPOSED UNDERPASS LIGHTING UNITS SHOWN ON THIS DRAWING SHALL BE FED FROM IDOT LIGHTING CONTROLLER "P". SEE DRAWING SLO8-O4 FOR SINGLE LINE DIAGRAM FOR LIGHTING CONTROLLER "P".
- 8. ALL PROPOSED UNDERPASS LIGHTING UNIT LOCATIONS SHALL BE APPROVED BY IDOT PRIOR TO INSTALLATION.
- CONTRACTOR IS RESPONSIBLE FOR THE MAINTENANCE OF THE EXISTING LIGHTING SYSTEM SHOWN ON THIS DRAWING. PROVIDE TEMPORARY POWER AS REQUIRED TO MAINTAIN THE EXISTING LIGHTING SYSTEM.
- COORDINATE ALL ELECTRICAL WORK WITH CIVIL WORK, IDOT CONTRACTS 62304, 62305, 62592, 62593, CONSTRUCTION STAGING AND TRAFFIC CONTROL PLANS.

JUNCTION BOX SCHEDULE					
NO.	SIZE	DESCRIPTION			
JB1	6"X6"X4"	STAINLESS STEEL, ATTACHED TO STRUCTURE, UNDERPASS LIGHTING			
JB2	12"X10"X6"	STAINLESS STEEL, ATTACHED TO STRUCTURE, UNDERPASS LIGHTING			

CABLE /CONDUIT SCHEDULE							
1	3-1/C*10, 1-1/C*10 GND IN 1" DIA PVCC RGC ATTACHED TO STRUCTURE (CKTS AS INDICATED ON THIS DRAWING)						
2	2-1/C*10, 1-1/C*10 GND IN 1" DIA PVCC RGC ATTACHED TO STRUCTURE (CKTS AS INDICATED ON THIS DRAWING)						
(3)	2-1/C*10, 1-1/C*10 GND IN 1" DIA LIQUID TIGHT FLEXIBLE CONDUIT (CKTS AS INDICATED ON THIS DRAWING)						

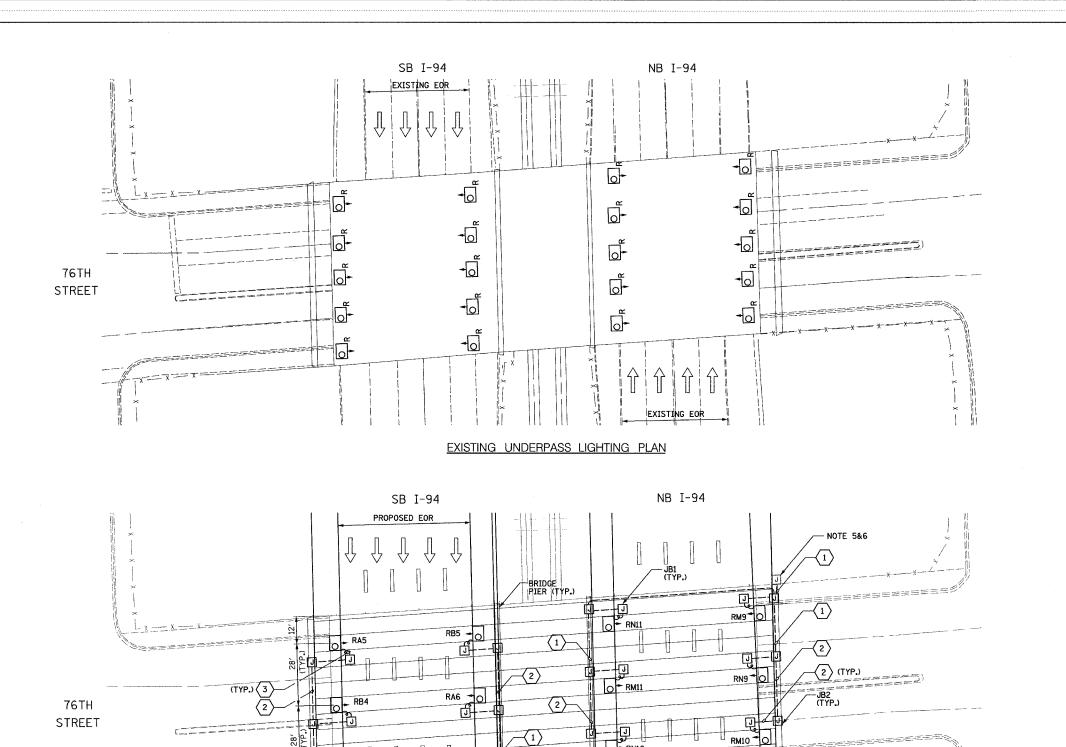
## SEQUENCE OF WORK:

2006: OUTSIDE LANES, NB I-94 AND SB I-94 2007: INSIDE LANES, NB I-94 AND SB I-94



UL-17

REVISIONS NAME	DATE	i	ILLINOIS DEPARTMENT OF TRANSPORTATION  F.A.I. 90/94 (DAN RYAN EXPRESSWAY)  31st STREET TO 1-57  UNDERPASS LIGHTING PLANS  79TH STREET				
		SCALE	1"=20"	. 2004	DRAWN BY:	VG	



PROPOSED UNDERPASS LIGHTING PLAN

RN10

PROPOSED EOR

SINGH & ASSOCIATES, INC.
CONSULTING ENGINEERS

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

NOTE 5&6

62583

#### NOTES

- 1. SEE DRAWINGS ME-01 AND ME-02 FOR ELECTRICAL SYMBOLS AND ABBREVIATIONS.
- 2. LOCATIONS OF EXISTING ELECTRICAL EQUIPMENT SHOWN ON THIS DRAWING ARE APPROXIMATIONS AND SHALL BE VERIFIED IN THE FIELD BY THE CONTRACTOR.
- SPLICE NEW UNDERPASS LIGHTING CIRCUITS TO THE SERVICE CABLES LOCATED IN JUNCTION BOX. SEE DRAWING RLO6-20 AND RLO7-20 FOR CONTINUATION OF UNDERPASS LIGHTING CIRCUIT FEEDS.
- 4. ALL PROPOSED UNDERPASS LUMINAIRES SHOWN ON THIS DRAWING SHALL BE PENDANT MOUNTED OFFSET 2 FEET FROM EDGE OF ROADWAY (EOR) UNLESS NOTED OTHERWISE. SEE DRAWING ME-06 FOR PENDANT MOUNTED UNDERPASS LIGHTING DETAILS.
- SPLICE NEW UNDERPASS LIGHTING CIRCUITS TO THE SERVICE CABLES LOCATED IN JUNCTION BOX. SEE DRAWING RLO6-19 AND RLO7-19 FOR CONTINUATION OF UNDERPASS LIGHTING CIRCUIT FEEDS.
- 6. ALL PROPOSED UNDERPASS LIGHTING UNITS SHOWN ON THIS DRAWING SHALL BE FED FROM IDOT LIGHTING CONTROLLER "R". SEE DRAWING SLO8-05 FOR SINGLE LINE DIAGRAM FOR LIGHTING CONTROLLER "R".
- CONTRACTOR IS RESPONSIBLE FOR THE MAINTENANCE OF THE EXISTING LIGHTING SYSTEM SHOWN ON THIS DRAWING. PROVIDE TEMPORARY POWER AS REQUIRED TO MAINTAIN THE EXISTING LIGHTING SYSTEM.
- 8. COORDINATE ALL ELECTRICAL WORK WITH CIVIL WORK, IDOT CONTRACTS 62304, 62305, 62592, 62593, CONSTRUCTION STAGING AND TRAFFIC CONTROL PLANS.

	JUNCTI	ON BOX SCHEDULE
NO.	SIZE	DESCRIPTION
JB1	6"X6"X4"	STAINLESS STEEL, ATTACHED TO STRUCTURE, UNDERPASS LIGHTING
JB2	12"X10"X6"	STAINLESS STEEL, ATTACHED TO STRUCTURE, UNDERPASS LIGHTING

CABLE /CONDUIT SCHEDULE				
1	3-1/C*10, 1-1/C*10 GND IN 1" DIA PVCC RGC ATTACHED TO STRUCTURE (CKTS AS INDICATED ON THIS DRAWING)			
2	2-1/C*10, 1-1/C*10 GND IN 1" DIA PVCC RGC ATTACHED TO STRUCTURE (CKTS AS INDICATED ON THIS DRAWING)			
3	2-1/C*10, 1-1/C*10 GND IN 1" DIA LIQUID TIGHT FLEXIBLE CONDUIT (CKTS AS INDICATED ON THIS DRAWING)			

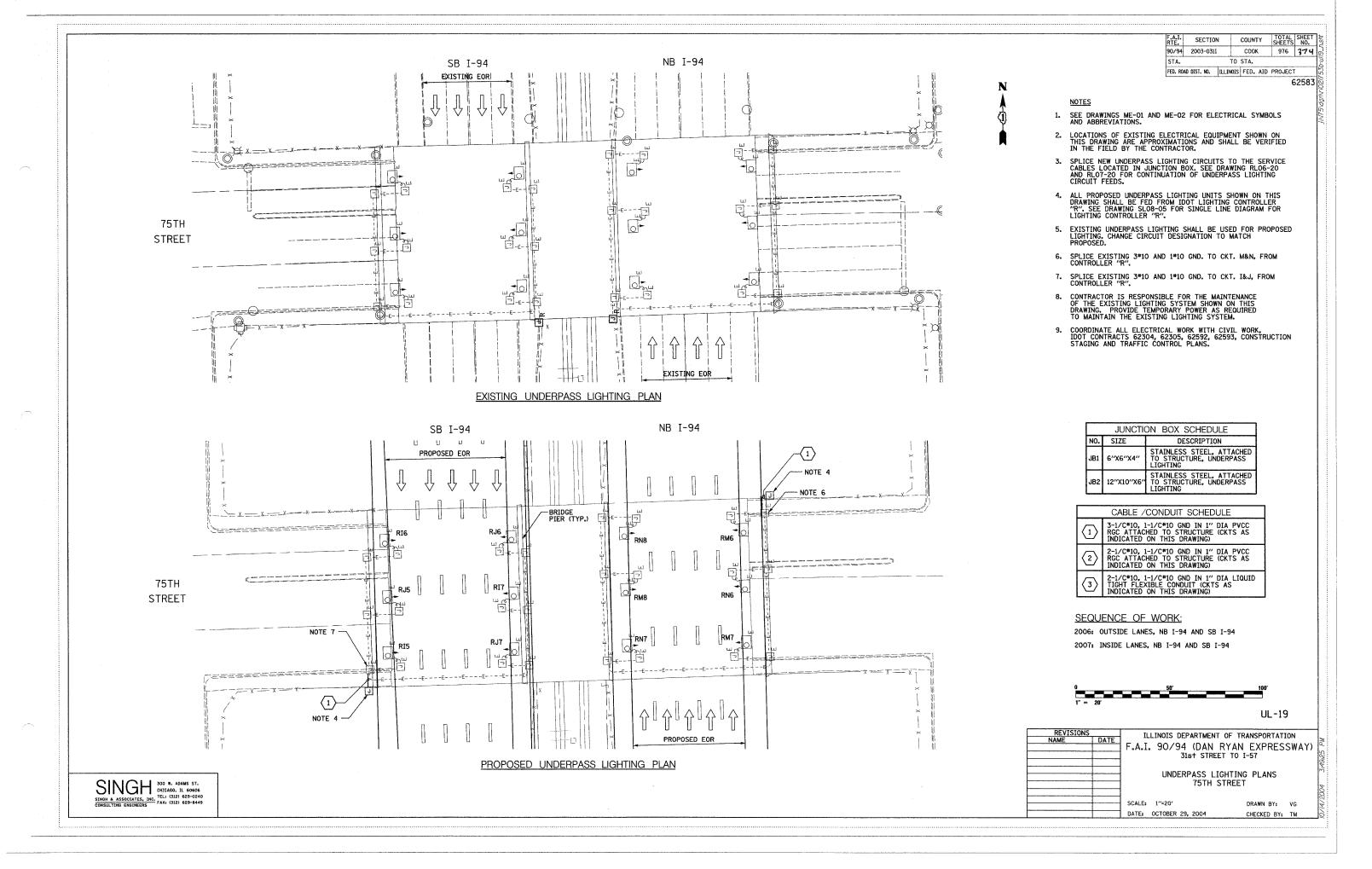
#### SEQUENCE OF WORK:

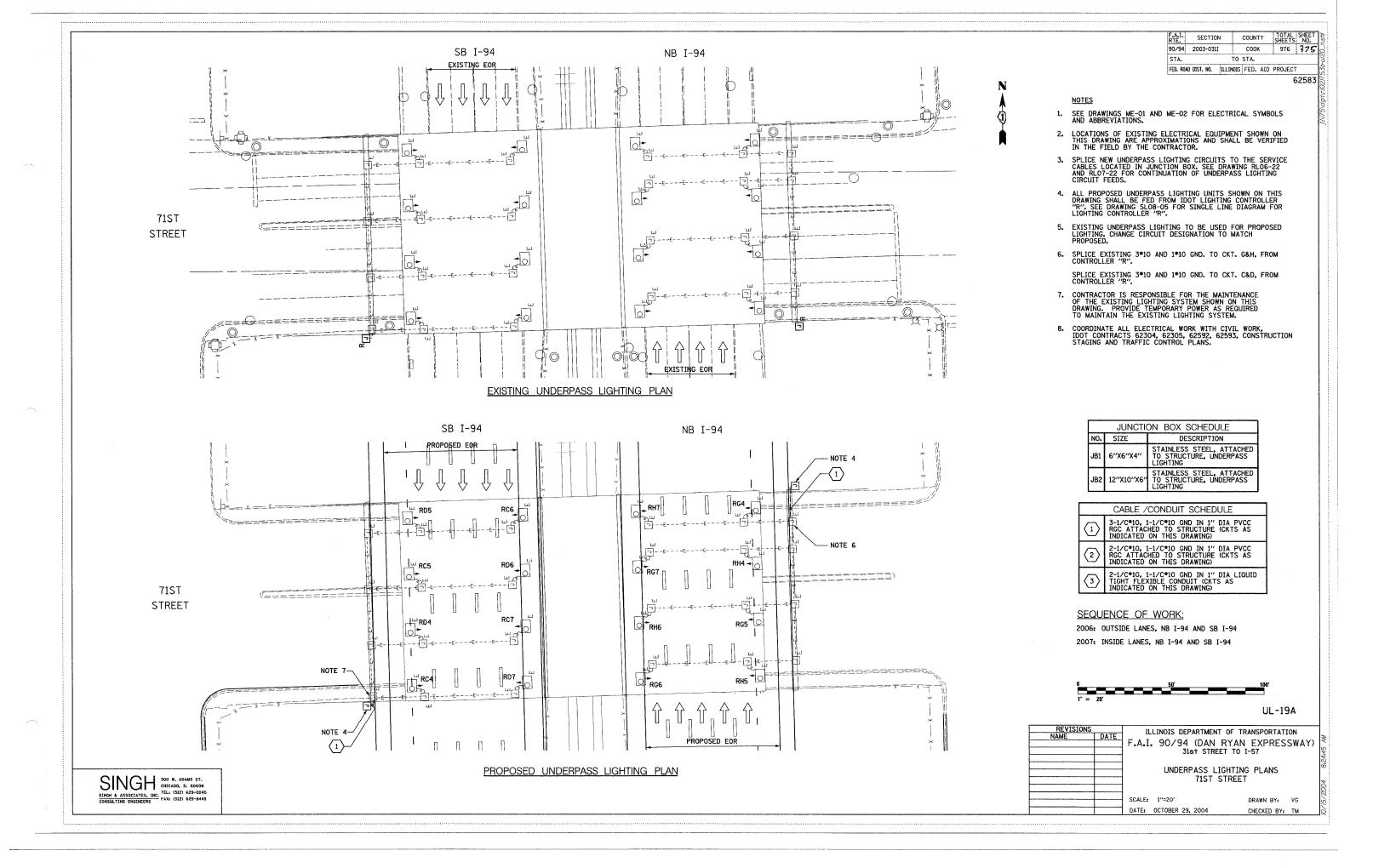
2006: OUTSIDE LANES, NB I-94 AND SB I-94 2007: INSIDE LANES, NB I-94 AND SB I-94



UL-18

REVISIONS NAME DAT	ILLINOIS DEPARTMENT C F.A.I. 90/94 (DAN R' 31st STREET	YAN EXPRESSWAY)
	UNDERPASS LIGH 76TH ST	
REVISED 01/21/	SCALE: 1"=20" DATE: OCTOBER 29, 2004	DRAWN BY: VG CHECKED BY: TM





F.A.I. SECTION COUNTY SHEETS NO.

90/94 2003-0311 COOK 976 326

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. LOCATIONS OF EXISTING ELECTRICAL EQUIPMENT SHOWN ON THIS DRAWING ARE APPROXIMATIONS AND MUST BE VERIFIED IN THE FIELD BY THE CONTRACTOR.
- 3. THE REMOVAL OF EXISTING UNDERPASS LUMINAIRES MUST INCLUDE THE REMOVAL OF ALL CABLES AND CONDUIT BACK TO THE NEAREST JUNCTION BOX. COST FOR THIS WORK WILL NOT BE PAID FOR SEPARATELY BUT WILL BE INCLUDED AS PART OF THE "REMOVE EXISTING UNDERPASS LUMINAIRE, AND SALVAGE" PAY ITEM.
- 4. REMOVE AND DISPOSE OF EXISTING CABLE AND CONDUIT ATTACHED TO STRUCTURE AND PROVIDE PLUG AS REQUIRED FOR EXISTING JUNCTION BOX HOLE.
- 5. RELOCATE ALL EXISTING JUNCTION BOXES DESIGNATED TO BE REMOVED AND REINSTALLED (RR) TO THE NEW UNDERPASS LUMINAIRE LOCATIONS AS SHOWN ON THIS DRAWING.
- 6. ALL PROPOSED UNDERPASS LUMINAIRES SHOWN ON THIS DRAWING MUST BE PENDANT MOUNTED OFFSET 2 FEET FROM EDGE OF ROADWAY (EOR) UNLESS NOTED OTHERWISE. SEE DRAWING ME-OG FOR PENDANT MOUNTED UNDERPASS LIGHTING DETAILS.
- 7. SPLICE NEW UNDERPASS LIGHTING CIRCUIT CABLES TO THE EXISTING UNDERPASS LIGHTING CIRCUIT CABLES LOCATED IN THE EXISTING JUNCTION BOX.
- 8. ALL PROPOSED UNDERPASS LIGHTING UNITS SHOWN ON THIS DRAWING WILL BE FED FROM IDOT LIGHTING CONTROLLER "PI". SEE DRAWING SLOBB-06 FOR SINGLE LINE DIAGRAM OF LIGHTING CONTROLLER "RI".
- 9. CONTRACTOR IS RESPONSIBLE FOR THE MAINTENANCE OF THE EXISTING LIGHTING SYSTEM SHOWN ON THIS DRAWING. PROVIDE TEMPORARY POWER AS REQUIRED TO MAINTAIN THE EXISTING LIGHTING SYSTEM.
- 10. ELECTRICAL WORK COMPLETED AS PART OF IDOT CONTRACT NUMBER 62733.
- 11. COORDINATE ALL ELECTRICAL WORK WITH CIVIL WORK, IDOT CONTRACT NUMBER 62733, CONSTRUCTION STAGING AND TRAFFIC CONTROL OVERVIEW PLANS.

	JUNCTIO	ON BOX SCHEDULE
NO.	SIZE	DESCRIPTION
JB2	12"X10"X6"	STAINLESS STEEL, ATTACHED TO STRUCTURE, UNDERPASS LIGHTING
	CARLE	CONDUIT SCHEDULE

	CABLE / CONDON SCHEDULE		
1	3-1/C*10, 1-1/C*10 GND IN 1" DIA PVCC RGC ATTACHED TO STRUCTURE (CKTS AS INDICATED ON THIS DRAWING)		
2	2-1/C*10, 1-1/C*10 GND IN 1" DIA PVCC RGC ATTACHED TO STRUCTURE (CKTS AS INDICATED ON THIS DRAWING)		
3	2-1/C*10, 1-1/C*10 GND IN 1" DIA LIQUID TIGHT FLEXIBLE CONDUIT (CKTS AS INDICATED ON THIS DRAWING)		

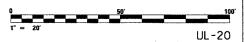
## SEQUENCE OF WORK (NOTE 11):

2006: REPLACE UNDERPASS LIGHTING OVER THE EAST SIDE OF THE NB MAINLINE LANES

REPLACE UNDERPASS LIGHTING OVER THE WEST SIDE OF THE SB MAINLINE LANES

2007: REPLACE UNDERPASS LIGHTING OVER THE WEST SIDE OF THE NB MAINLINE LANES

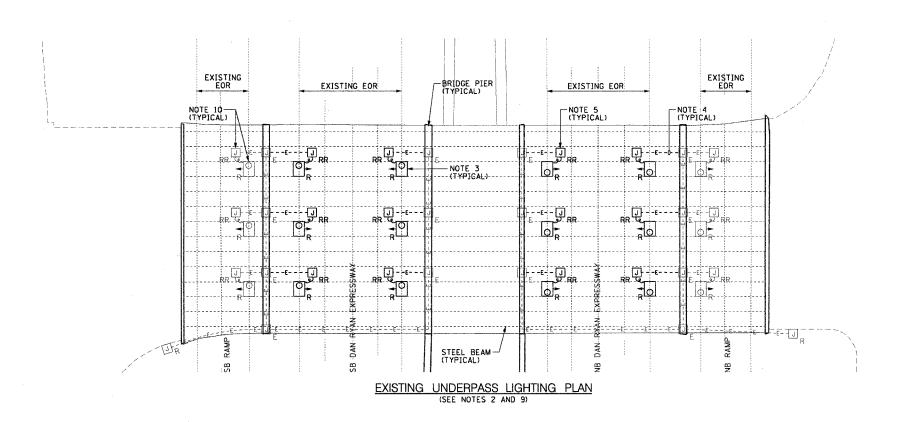
REPLACE UNDERPASS LIGHTING OVER THE EAST SIDE OF THE SB MAINLINE LANES



CHECKED BY: WDS

REVISIONS NAME	DATE			ARTMENT OF T (DAN RYAN		
			31s	t STREET TO	I-57	
				ASS LIGHTIN 69TH STREE		
		SCALE:	1''=20'		DRAWN BY:	HAR

DATE: October 29, 2004



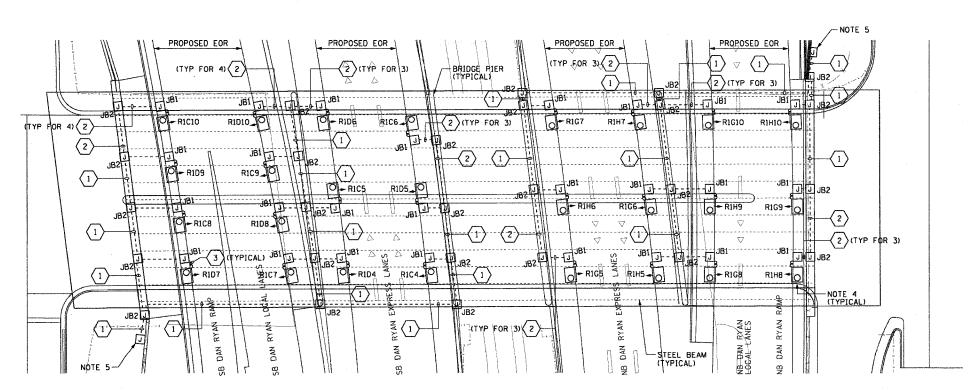
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	RIA9 -	RIF6 O D RIF9  - J E D RER RIF6 TO D RIF9  - RIF8 - O D RIF9  - RIF8 - RIF8 - O D RIF9
1)	BS BS TO BS TO THE STEEL BEAM (TYPICAL)	B B B B B B B B B B B B B B B B B B B

PROPOSED UNDERPASS LIGHTING PLAN

CTE ENGINEERS
CONSORT TOWNSEND ENVIRONME ENGINEERS, INC.
303 EAST WACKER DRIVE, SUITE 600



EXISTING UNDERPASS LIGHTING PLAN (SEE NOTE 2)



PROPOSED UNDERPASS LIGHTING PLAN (SEE NOTE 6)



THIS SHEET IS FOR INFORMATIONAL PURPOSES ONLY. ALL UNDERPASS LIGHTING EQUIPMENT SHOWN WAS INSTALLED IN 1DOT CONTRACT NO. 62733.

COUNTY TOTAL SHE SECTION COOK 90/94 2003-0311 976 377 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.
- LOCATIONS OF EXISTING ELECTRICAL EQUIPMENT SHOWN ON THIS DRAWING ARE APPROXIMATIONS AND MUST BE VERIFIED IN THE FIELD BY THE CONTRACTOR.
- 3. THE REMOVAL OF EXISTING UNDERPASS LUMINAIRES MUST INCLUDE THE REMOVAL OF ALL CABLES, CONDUIT, AND HARDWARE ASSOCIATED WITH THE EXISTING UNDERPASS LIGHTING. COST FOR THIS WORK WILL NOT BE PAID FOR SEPARATELY BUT WILL BE INCLUDED AS PART OF THE "REMOVE EXISTING UNDERPASS LUMINAIRE, AND SALVAGE" PAY ITEM.
- 4. ALL PROPOSED UNDERPASS LUMINAIRES SHOWN ON THIS DRAWING MUST BE PENDANT MOUNTED OFFSET 2 FEET FROM EDGE OF ROADWAY (EOR) UNLESS NOTED OTHERWISE. SEE DRAWING ME-O6 FOR PENDANT MOUNTED UNDERPASS LIGHTING DETAILS.
- 5. SPLICE NEW UNDERPASS LIGHTING CIRCUIT CABLES TO THE SERVICE FEED CABLES LOCATED IN THE JUNCTION BOX. SEE DRAWING RL-25 FOR CONTINUATION OF UNDERPASS
- ALL PROPOSED UNDERPASS LIGHTING UNITS SHOWN ON THIS DRAWING WILL BE FED FROM IDOT LIGHTING CONTROLLER "R!", SEE DRAWING SL-06 FOR SINGLE LINE DIAGRAM OF LIGHTING CONTROLLER "R!".
- 7. PROVIDE TEMPORARY POWER AS REQUIRED UNTIL SUCH TIME AS THE PROPOSED POWER FEEDS ARE INSTALLED.
- 8. COORDINATE ALL ELECTRICAL WORK WITH CIVIL WORK, IDOT CONTRACT NUMBER 62590, CONSTRUCTION STAGING AND TRAFFIC CONTROL OVERVIEW PLANS.

	JUNCTION BOX SCHEDULE				
NO.	SIZE	DESCRIPTION			
JB1	6"x6"x4"	STAINLESS STEEL, ATTACHED TO STRUCTURE, UNDERPASS LIGHTING			
JB2	12"X10"X6"	STAINLESS STEEL, ATTACHED TO STRUCTURE, UNDERPASS LIGHTING			

	CABLE /CONDUIT SCHEDULE			
1	3-1/C*10, 1-1/C*10 GND IN 1" DIA PVCC RGC ATTACHED TO STRUCTURE (CKTS AS INDICATED ON THIS DRAWING)			
2	2-1/C*10, 1-1/C*10 GND IN 1" DIA PVCC RGC ATTACHED TO STRUCTURE (CKTS AS INDICATED ON THIS DRAWING)			
3	2-1/C*10, 1-1/C*10 GND IN 1" DIA LIQUID TIGHT FLEXIBLE CONDUIT (CKTS AS INDICATED ON THIS DRAWING)			

## SEQUENCE OF WORK (NOTE 8):

2004: INSTALL PRIMARY POWER FEEDS AS SHOWN ON RL-25 (NOTE 7)

INSTALL UNDERPASS LIGHTING IN EXPRESS LANES INSTALL UNDERPASS LIGHTING IN LOCAL LANES INSTALL UNDERPASS LIGHTING IN RAMP LANES

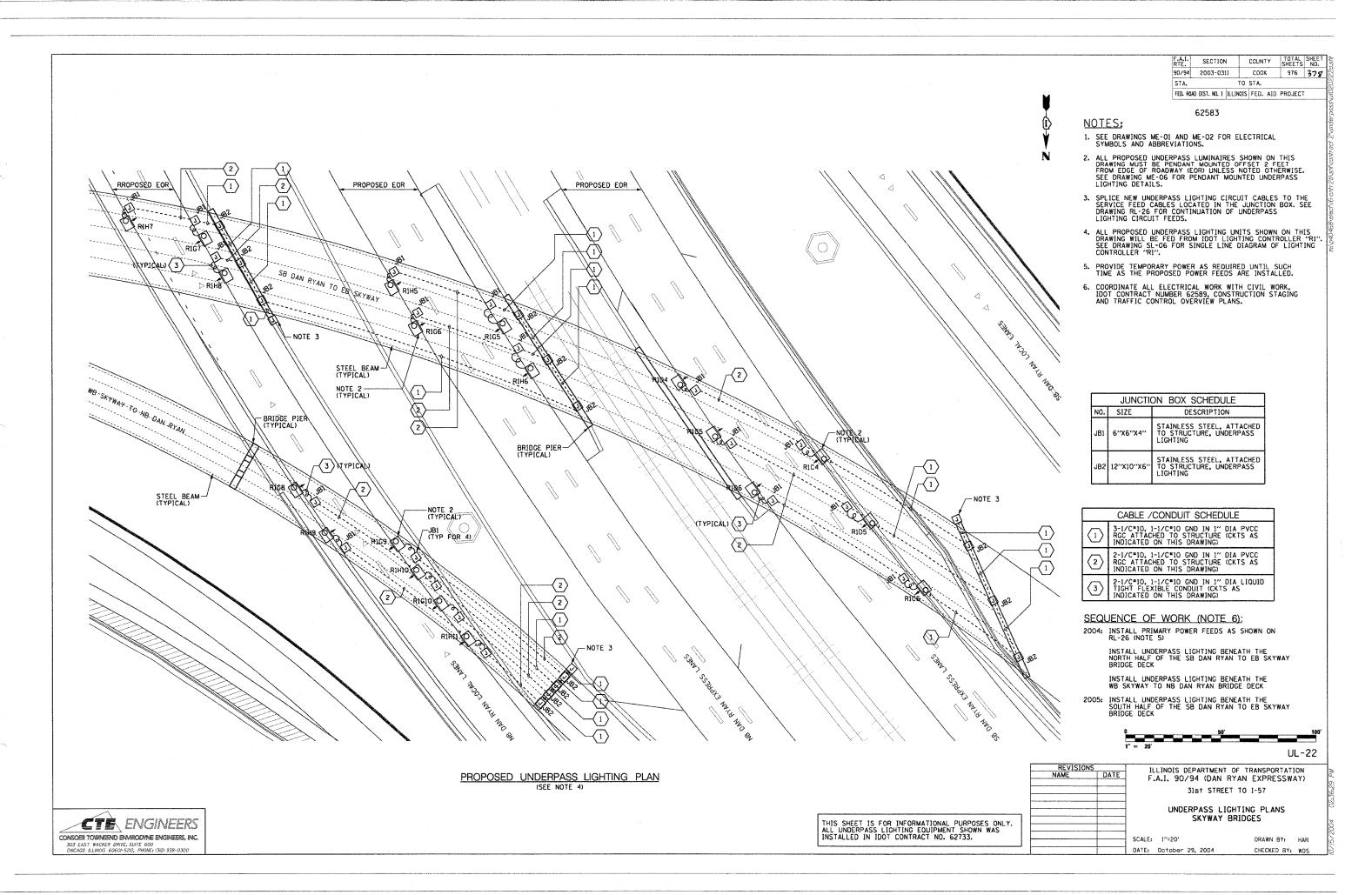


LINOIS DEPAR	TI I		REVISIONS	
A.I. 90/94		DATE	NAME	
31s†				_
UNDERPA 6				
1"=20"	SCALE:			_

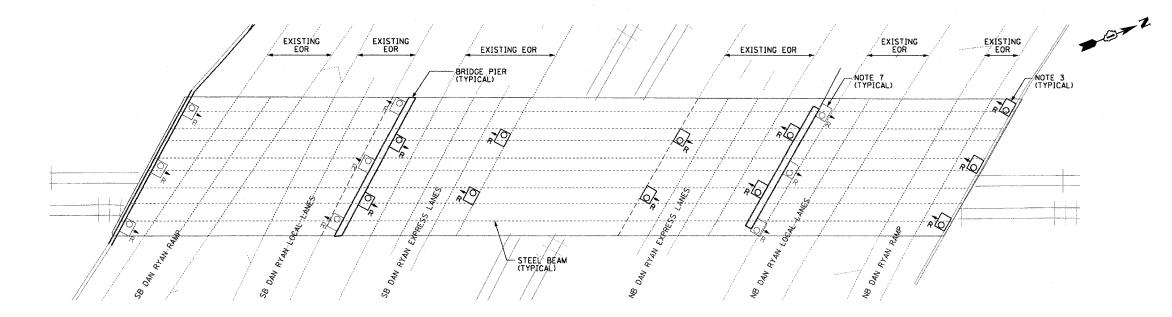
RTMENT OF TRANSPORTATION (DAN RYAN EXPRESSWAY) STREET TO 1-57

ASS LIGHTING PLANS 67TH STREET

DRAWN BY: HAR DATE: October 29, 2004 CHECKED BY: WDS



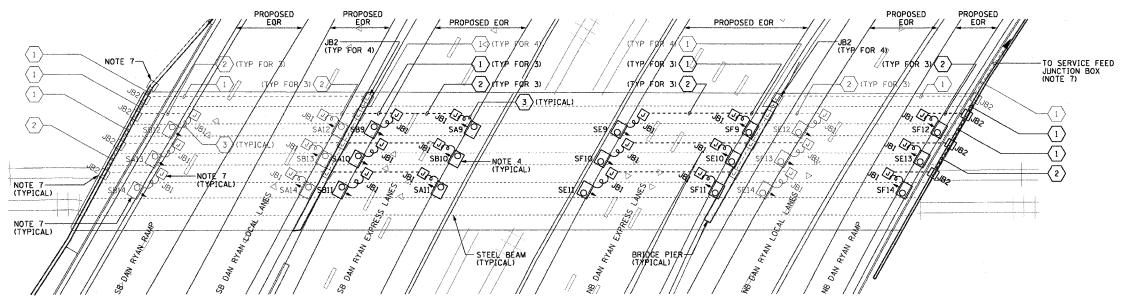




EXISTING UNDERPASS LIGHTING PLAN (SEE NOTES 2 AND 6)

NOTES:

- 1. SEE DRAWINGS ME-01 AND ME-02 FOR ELECTRICAL SYMBOLS AND ABBREVIATIONS.
- LOCATIONS OF EXISTING ELECTRICAL EQUIPMENT SHOWN ON THIS DRAWING ARE APPROXIMATIONS AND MUST BE VERIFIED IN THE FIELD BY THE CONTRACTOR.
- 3. THE REMOVAL OF EXISTING UNDERPASS LUMINAIRES MUST INCLUDE THE REMOVAL OF ALL CABLES, CONDUIT, AND HARDWARE ASSOCIATED WITH THE EXISTING UNDERPASS LIGHTING. COST FOR THIS WORK WILL NOT BE PAID FOR SEPARATELY BUT WILL BE INCLUDED AS PART OF THE "REMOVE EXISTING UNDERPASS LUMINAIRE, AND SALVAGE" PAY ITEM.
- 4. ALL PROPOSED UNDERPASS LUMINAIRES SHOWN ON THIS DRAWING MUST BE PENDANT MOUNTED OFFSET 2 FEET FROM EDGE OF ROADWAY (EOR) UNLESS NOTED OTHERWISE. SEE DRAWING ME-OG FOR PENDANT MOUNTED UNDERPASS LIGHTING DETAILS.
- 5. ALL PROPOSED UNDERPASS LIGHTING UNITS SHOWN ON THIS DRAWING WILL BE FED FROM IDOT LIGHTING CONTROLLER "S". SEE DRAWING SLO8-07 FOR SINGLE LINE DIAGRAM OF LIGHTING CONTROLLER "S".
- CONTRACTOR IS RESPONSIBLE FOR THE MAINTENANCE OF THE EXISTING LIGHTING SYSTEM SHOWN ON THIS DRAWING. PROVIDE TEMPORARY POWER AS REQUIRED TO MAINTAIN THE EXISTING LIGHTING SYSTEM.
- ELECTRICAL WORK COMPLETED AS PART OF IDOT CONTRACT NUMBER 62733.
- COORDINATE ALL ELECTRICAL WORK WITH CIVIL WORK, IDOT CONTRACT NUMBER 62733, CONSTRUCTION STAGING AND TRAFFIC CONTROL OVERVIEW PLANS.

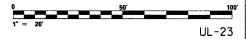


JUNCTION BOX SCHEDULE					
NO.	SIZE DESCRIPTION				
JB1	6"X6"X4"	STAINLESS STEEL. ATTACHED TO STRUCTURE, UNDERPASS LIGHTING			
JB2	12''X10''X6''	STAINLESS STEEL, ATTACHED TO STRUCTURE, UNDERPASS LIGHTING			

	·
	CABLE /CONDUIT SCHEDULE
1	3-1/C*10, 1-1/C*10 GND IN 1" DIA PVCC RGC ATTACHED TO STRUCTURE (CKTS AS INDICATED ON THIS DRAWING)
(2)	2-1/C*10, 1-1/C*10 GND IN 1" DIA PVCC RGC ATTACHED TO STRUCTURE (CKTS AS INDICATED ON THIS DRAWING)
(3)	2-1/C*10, 1-1/C*10 GND IN 1" DIA LIQUID TIGHT FLEXIBLE CONDUIT (CKTS AS INDICATED ON THIS DRAWING)

## SEQUENCE OF WORK (NOTE 8):

2006: REPLACE UNDERPASS LIGHTING IN EXPRESS LANES
2007: REPLACE UNDERPASS LIGHTING IN NB RAMP LANES



ILLINOIS DEP	S .	REVISION
F.A.I. 90/94	DATE	NAME
31s		
UNDERP		
C.		

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

UNDERPASS LIGHTING PLANS C.R.I. AND P. R.R.

SCALE: 1"=20'

DATE: October 29, 2004

DRAWN BY: HAR CHECKED BY: WDS

PROPOSED UNDERPASS LIGHTING PLAN (SEE NOTE 5)

CONSOER TOWNSEND ENVIROUNNE ENGINEERS, INC.
303 EAST WACKED DRIVE, SUITE 600
CHICAGO LICHOS 6660-5620, PHONE 613 32) 938-0300

| F.A.| SECTION | COUNTY | STOTAL SHEETS | SHEET

## NOTES:

- 1. SEE DRAWINGS ME-01 AND ME-02 FOR ELECTRICAL SYMBOLS AND ABBREVIATIONS.
- LOCATIONS OF EXISTING ELECTRICAL EQUIPMENT SHOWN ON THIS DRAWING ARE APPROXIMATIONS AND MUST BE VERIFIED IN THE FIELD BY THE CONTRACTOR.
- 3. THE REMOVAL OF EXISTING UNDERPASS LUMINAIRES MUST INCLUDE THE REMOVAL OF ALL CABLES, CONDUIT, AND HARDWARE ASSOCIATED WITH THE EXISTING UNDERPASS LIGHTING. COST FOR THIS WORK WILL NOT BE PAID FOR SEPARATELY BUT WILL BE INCLUDED AS PART OF THE "REMOVE EXISTING UNDERPASS LUMINAIRE, AND SALVAGE" PAY ITEM.
- 4. ALL PROPOSED UNDERPASS LUMINAIRES SHOWN ON THIS DRAWING MUST BE PENDANT MOUNTED OFFSET 2 FEET FROM EDGE OF ROADWAY (EOR) UNLESS NOTED OTHERWISE. SEE DRAWING ME-06 FOR PENDANT MOUNTED UNDERPASS LIGHTING DETAILS.
- 5. SPLICE NEW UNDERPASS LIGHTING CIRCUIT CABLES TO THE SERVICE FEED CABLES LOCATED IN THE JUNCTION BOX. SEE DRAWINGS RL-27 AND RL-28 FOR CONTINUATION OF UNDERPASS LIGHTING CIRCUIT FEEDS.
- ALL PROPOSED UNDERPASS LIGHTING UNITS SHOWN ON THIS DRAWING WILL BE FED FROM 100T LIGHTING CONTROLLER "S". SEE DRAWING SL-07 FOR SINGLE LINE DIAGRAM OF LIGHTING CONTROLLER "S".
- 7. CONTRACTOR IS RESPONSIBLE FOR THE MAINTENANCE OF THE EXISTING LIGHTING SYSTEM SHOWN ON THIS DRAWING. THE EXISTING ELECTRICAL POWER FEEDS MAY NOT BE REMOVED UNTIL SUCH TIME AS THE PROPOSED POWER FEEDS ARE INSTALLED, PROVIDE TEMPORARY POWER AS REQUIRED TO MAINTAIN THE EXISTING LIGHTING SYSTEM.
- 8. COORDINATE ALL ELECTRICAL WORK WITH CIVIL WORK, IDOT CONTRACT NUMBER 62587, CONSTRUCTION STAGING AND TRAFFIC CONTROL OVERVIEW PLANS.

	JUNCTION BOX SCHEDULE		
NO.	SIZE	DESCRIPTION	
JB1	6"X6"X4"	STAINLESS STEEL, ATTACHED TO STRUCTURE, UNDERPASS LIGHTING	
JB2	12"X10"X6"	STAINLESS STEEL, ATTACHED TO STRUCTURE, UNDERPASS LIGHTING	

	CABLE /CONDUIT SCHEDULE		
	(-)	3-1/C*10, 1-1/C*10 GND IN 1" DIA PVCC RGC ATTACHED TO STRUCTURE (CKTS AS INDICATED ON THIS DRAWING)	
	(S)	2-1/C*10, 1-1/C*10 GND IN 1" DIA PVCC RGC ATTACHED TO STRUCTURE (CKTS AS INDICATED ON THIS DRAWING)	
	3	2-1/C*10, 1-1/C*10 GND IN 1" DIA LIQUID TIGHT FLEXIBLE CONDUIT (CKTS AS INDICATED ON THIS DRAWING)	

# SEQUENCE OF WORK (NOTE 8):

2004: INSTALL PRIMARY POWER FEEDS AS SHOWN ON RL-27 AND RL-28 AND CONNECT EXISTING CIRCUIT TO NEW FEEDS (NOTE 7)

INSTALL UNDERPASS LIGHTING IN EXPRESS LANES
INSTALL UNDERPASS LIGHTING IN LOCAL LANES
INSTALL UNDERPASS LIGHTING IN RAMP LANES



UL-24

DRAWN BY: HAR

CHECKED BY: WDS

	REVISIONS		
	NAME	DATE	
L			
L			
L			
			SCAL
			DAT

ILLINOIS DEPARTMENT OF TRANSPORTATION F.A.I. 90/94 (DAN RYAN EXPRESSWAY)

31st STREET TO 1-57

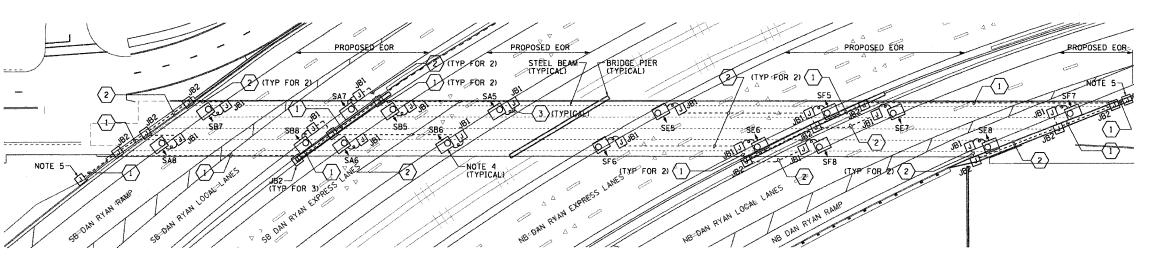
UNDERPASS LIGHTING PLANS WENTWORTH AVENUE

CALE: 1"=30" ATE: October 29, 2004

EXISTING EOR

EX

(SEE NOTE 2)

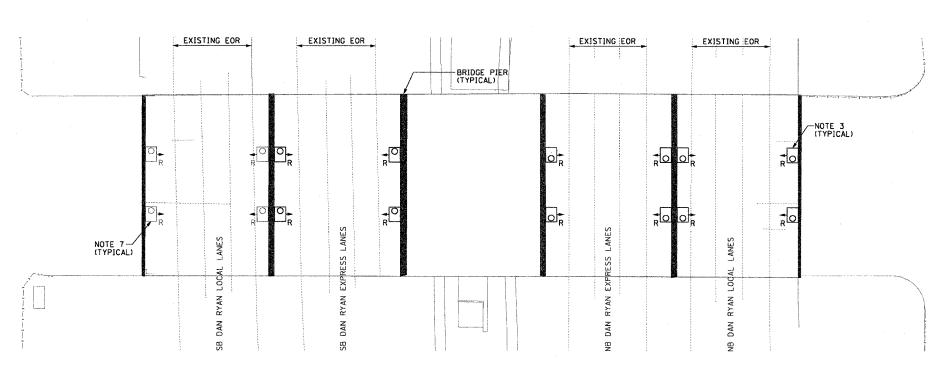


PROPOSED UNDERPASS LIGHTING PLAN
(SEE NOTE 6)

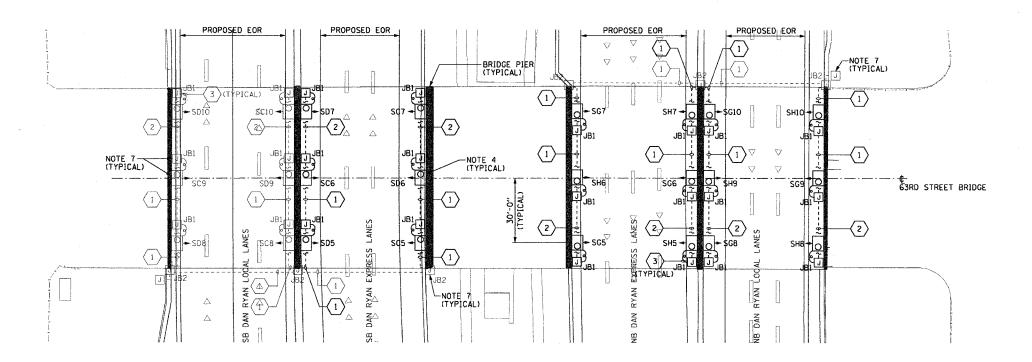
THIS SHEET IS FOR INFORMATIONAL PURPOSE

ENGINEERS
CONSOER TOWNSEND ENWIRODYNE ENGINEERS, INC.
303 EAST WACKER DRIVE, SUITE 600
ORCAGO LILWOIS 66067-522, PHONE, 13(2) 938-0300

THIS SHEET IS FOR INFORMATIONAL PURPOSES ONLY. ALL UNDERPASS LIGHTING EQUIPMENT SHOWN WAS INSTALLED IN IDOT CONTRACT NO. 62733.



EXISTING UNDERPASS LIGHTING PLAN (SEE NOTES 2 AND 6)



PROPOSED UNDERPASS LIGHTING PLAN (SEE NOTE 5)

ENGINEERS

CONSOER TOWNSEND ENVIRODYNE ENGINEERS, INC.
303 EAST WACKER DRIVE, SUITE 600
CHCAGO LINOIS 60607-522, PHORE: 61219 938-0300

62583

## NOTES:

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

 LOCATIONS OF EXISTING ELECTRICAL EQUIPMENT SHOWN ON THIS DRAWING ARE APPROXIMATIONS AND MUST BE VERIFIED IN THE FIELD BY THE CONTRACTOR.

3. THE REMOVAL OF EXISTING UNDERPASS LUMINAIRES MUST INCLUDE THE REMOVAL OF ALL CABLES, CONDUIT, AND HARDWARE ASSOCIATED WITH THE EXISTING UNDERPASS LIGHTING. COST FOR THIS WORK WILL NOT BE PAID FOR SEPARATELY BUT WILL BE INCLUDED AS PART OF THE "REMOVE EXISTING UNDERPASS LUMINAIRE, AND SALVAGE" PAY ITEM.

4. ALL PROPOSED UNDERPASS LUMINAIRES SHOWN ON THIS DRAWING MUST BE PIER OR ABUTMENT WALL MOUNTED. SEE DRAWING ME-07 FOR PIER/ABUTMENT WALL MOUNTED UNDERPASS LIGHTING DETAILS.

5. ALL PROPOSED UNDERPASS LIGHTING UNITS SHOWN ON THIS DRAWING WILL BE FED FROM IDOT LIGHTING CONTROLLER "S". SEE DRAWING SLOB-07 FOR SINGLE LINE DIAGRAM OF LIGHTING CONTROLLER "S".

6. CONTRACTOR IS RESPONSIBLE FOR THE MAINTENANCE OF THE EXISTING LIGHTING SYSTEM SHOWN ON THIS DRAWING. PROVIDE TEMPORARY POWER AS REQUIRED TO MAINTAIN THE EXISTING LIGHTING SYSTEM.

 ELECTRICAL WORK COMPLETED AS PART OF IDOT CONTRACT NUMBER 62733.

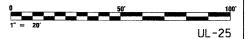
8. COORDINATE ALL ELECTRICAL WORK WITH CIVIL WORK, IDOT CONTRACT NUMBER 62733, CONSTRUCTION STAGING AND TRAFFIC CONTROL OVERVIEW PLANS.

L	JUNCTION BOX SCHEDULE		
N	١0.	SIZE	DESCRIPTION
J	Bı	6"X6"X4"	STAINLESS STEEL, ATTACHED TO STRUCTURE, UNDERPASS LIGHTING
J	B2	12"X10"X6"	STAINLESS STEEL, ATTACHED TO STRUCTURE, UNDERPASS LIGHTING

	CABLE /CONDUIT SCHEDULE
1	3-1/C*10, 1-1/C*10 GND IN 1" DIA PYCC RGC ATTACHED TO STRUCTURE (CKTS AS INDICATED ON THIS DRAWING)
2	2-1/C*10, 1-1/C*10 GND IN 1" DIA PVCC RGC ATTACHED TO STRUCTURE (CKTS AS INDICATED ON THIS DRAWING)
3	2-1/C*10, 1-1/C*10 GND IN 1" DIA LIQUID TIGHT FLEXIBLE CONDUIT (CKTS AS INDICATED ON THIS DRAWING)

## SEQUENCE OF WORK (NOTE 8):

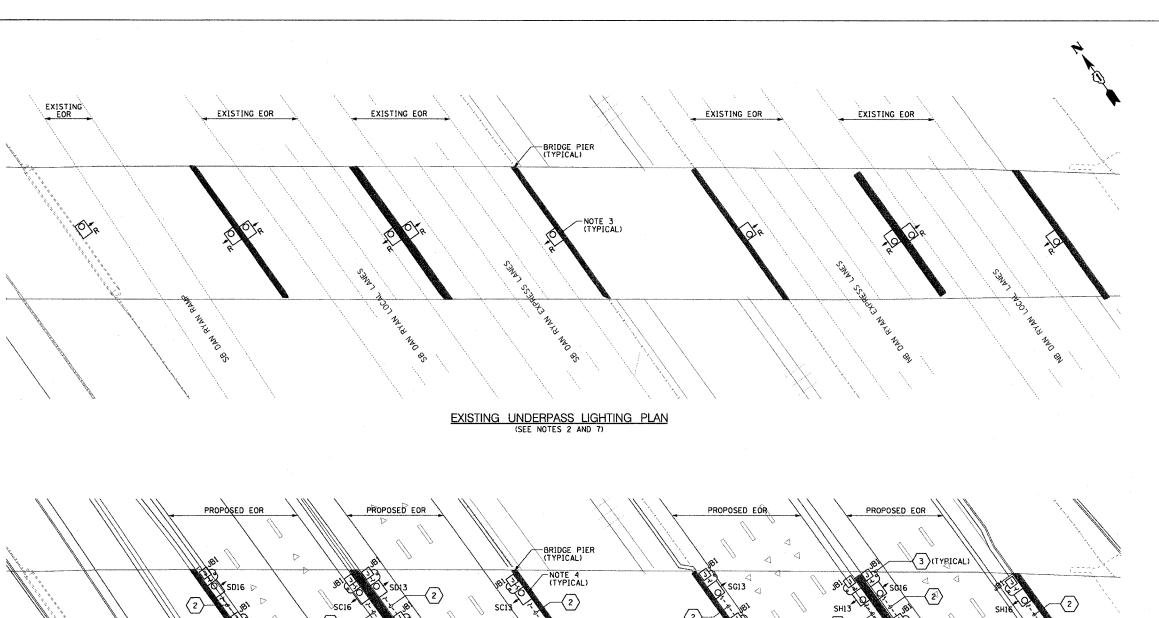
2006: REPLACE UNDERPASS LIGHTING IN EXPRESS LANES
2007: REPLACE UNDERPASS LIGHTING IN NB LOCAL LANES



REVISION NAME	S DATE	ILLINOIS DEPARTMENT OF TRANSPORTATION F.A.I. 90/94 (DAN RYAN EXPRESSWAY) 31st STREET TO 1-57
		UNDERPASS LIGHTING PLANS 63RD STREET

SCALE: 1"=20"

DATE: October 29, 2004



PROPOSED UNDERPASS LIGHTING PLAN (SEE NOTE 6)

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DATE

NOTE 5

COUNTY TOTAL SHEE SHEETS NO. SECTION 90/94 2003-0311 COOK 976 382 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.
- LOCATIONS OF EXISTING ELECTRICAL EQUIPMENT SHOWN ON THIS DRAWING ARE APPROXIMATIONS AND MUST BE VERIFIED IN THE FIELD BY THE CONTRACTOR.
- 3. THE REMOVAL OF EXISTING UNDERPASS LUMINAIRES MUST INCLUDE THE REMOVAL OF ALL CABLES, CONDUIT, AND HARDWARE ASSOCIATED WITH THE EXISTING UNDERPASS LIGHTING. COST FOR THIS WORK WILL NOT BE PAID FOR SEPARATELY BUT WILL BE INCLUDED AS PART OF THE "REMOVE EXISTING UNDERPASS LUMINAIRE, AND SALVAGE" PAY ITEM.
- 4. ALL PROPOSED UNDERPASS LUMINAIRES SHOWN ON THIS DRAWING MUST BE PIER OR ABUTMENT WALL MOUNTED. SEE DRAWING ME-O7 FOR PIER/ABUTMENT WALL MOUNTED UNDERPASS LIGHTING DETAILS.
- 5. SPLICE NEW UNDERPASS LIGHTING CIRCUIT CABLES TO THE SERVICE FEED CABLES LOCATED IN THE JUNCTION BOX. SEE DRAWING RLO5-28 AND RLO5-29 FOR CONTINUATION OF UNDERPASS LIGHTING CIRCUIT FEEDS.
- ALL PROPOSED UNDERPASS LIGHTING UNITS SHOWN ON THIS DRAWING WILL BE FED FROM IDOT LIGHTING CONTROLLER "S". SEE DRAWING SLOB-07 FOR SINGLE LINE DIAGRAM OF LIGHTING CONTROLLER "S".
- 7. CONTRACTOR IS RESPONSIBLE FOR THE MAINTENANCE OF THE EXISTING LIGHTING SYSTEM SHOWN ON THIS DRAWING. THE EXISTING ELECTRICAL POWER FEEDS MAY NOT BE REMOVED UNTIL SUCH TIME AS THE PROPOSED POWER FEEDS ARE INSTALLED. PROVIDE TEMPORARY POWER AS REQUIRED TO MAINTAIN THE EXISTING LIGHTING SYSTEM.
- 8. COORDINATE ALL ELECTRICAL WORK WITH CIVIL WORK, IDOT CONTRACT NUMBER 62733, CONSTRUCTION STAGING AND TRAFFIC CONTROL OVERVIEW PLANS.

	JUNCTION BOX SCHEDULE	
NO.	SIZE	DESCRIPTION
JB1	6"X6"X4"	STAINLESS STEEL, ATTACHED TO STRUCTURE, UNDERPASS LIGHTING
JB2	12"X10"X6"	STAINLESS STEEL, ATTACHED TO STRUCTURE, UNDERPASS LIGHTING

	CABLE /CONDUIT SCHEDULE
1	3-1/C*10, 1-1/C*10 GND IN 1" DIA PVCC RGC ATTACHED TO STRUCTURE (CKTS AS INDICATED ON THIS DRAWING)
(2)	2-1/C*10, 1-1/C*10 GND IN 1" DIA PVCC RGC ATTACHED TO STRUCTURE (CKTS AS INDICATED ON THIS DRAWING)
(3)	2-1/C*10, 1-1/C*10 GND IN 1" DIA LIQUID TIGHT FLEXIBLE CONDUIT (CKTS AS INDICATED ON THIS DRAWING)

# SEQUENCE OF WORK (NOTE 8):

2005: INSTALL PRIMARY POWER FEEDS AS SHOWN ON RLO5-28 AND RLO5-29 AND CONNECT EXISTING CIRCUITS TO NEW CIRCUITS (NOTE 7)

2006: REPLACE UNDERPASS LIGHTING IN EXPRESS LANES

2007: REPLACE UNDERPASS LIGHTING IN LOCAL LANES

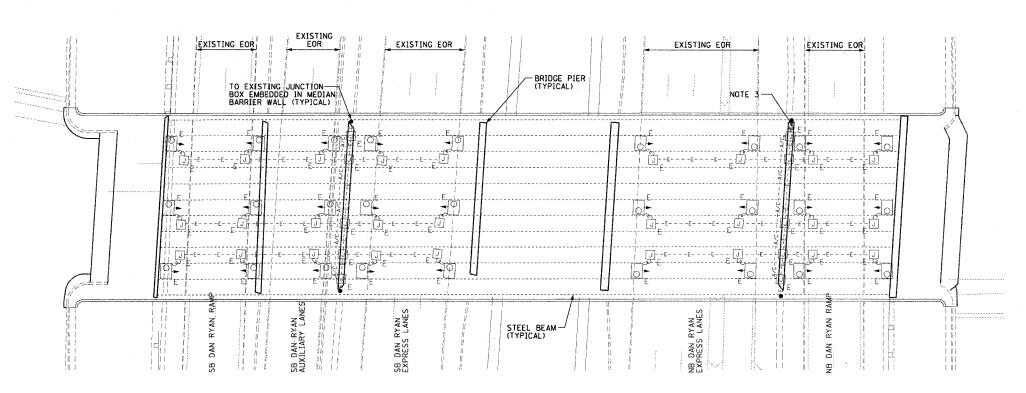
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ILLINOIS DEPARTMENT OF TRANSPORTATION F.A.I. 90/94 (DAN RYAN EXPRESSWAY) 31st STREET TO I-57

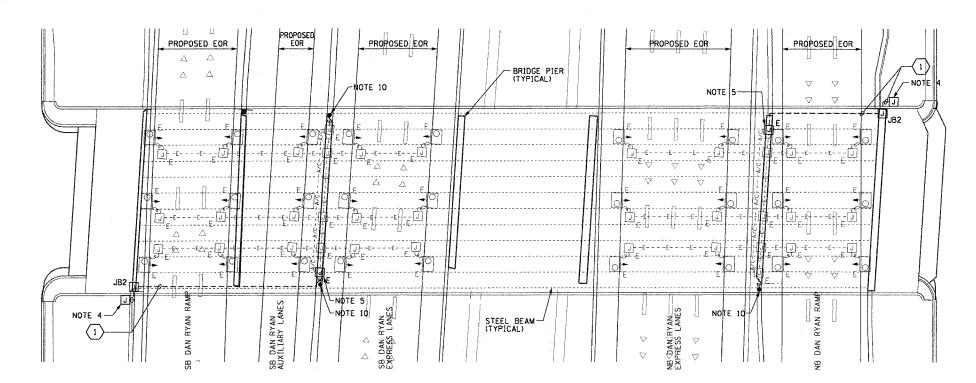
> UNDERPASS LIGHTING PLANS P.FT.W. & C. R.R.

SCALE: 1"=20" DATE: October 29, 2004 DRAWN BY: HAR CHECKED BY: WDS

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



EXISTING UNDERPASS LIGHTING PLAN (SEE NOTES 2 & 8)



PROPOSED UNDERPASS LIGHTING PLAN



THIS SHEET IS FOR INFORMATIONAL PURPOSES ONLY. ALL UNDERPASS LIGHTING EQUIPMENT SHOWN WAS INSTALLED IN IDOT CONTRACT NO. 62733.

62583

## NOTES:

- SEE DRAWINGS ME-01 AND ME-02 FOR ELECTRICAL SYMBOLS AND ABBREVIATIONS.
- 2. LOCATIONS OF EXISTING ELECTRICAL EQUIPMENT SHOWN ON THIS DRAWING ARE APPROXIMATIONS AND MUST BE VERIFIED IN THE FIELD BY THE CONTRACTOR.
- REMOVE AND DISPOSE OF EXISTING CABLE AND CONDUIT ATTACHED TO STRUCTURE AND PROVIDE PLUG AS REQUIRED FOR EXISTING JUNCTION BOX HOLE.
- 4. PROVIDE A NEW FEEDER TO THE EXISTING UNDERPASS LIGHTING AS SHOWN, SPLICE NEW UNDERPASS LIGHTING CIRCUIT CABLES TO THE SERVICE FEED CABLES LOCATED IN THE JUNCTION BOX. SEE DRAWING RL-31 FOR CONTINUATION OF UNDERPASS LIGHTING CIRCUIT FEEDS.
- 5. SPLICE NEW UNDERPASS LIGHTING CIRCUIT CABLES TO THE EXISTING UNDERPASS LIGHTING CIRCUIT CABLES LOCATED IN THE EXISTING JUNCTION BOX.
- 6. ALL EXISTING UNDERPASS LIGHTING UNITS SHOWN ON THIS DRAWING WILL BE FED FROM IDOT LIGHTING CONTROLLER "T". SEE DRAWING SL-OB FOR SINGLE LINE DIAGRAM OF LIGHTING CONTROLLER "T".
- 7. CONTRACTOR IS RESPONSIBLE FOR THE MAINTENANCE OF THE EXISTING LIGHTING SYSTEM SHOWN ON THIS DRAWING, THE EXISTING ELECTRICAL POWER FEEDS MAY NOT BE REMOVED UNTIL SUCH TIME AS THE PROPOSED POWER FEEDS ARE INSTALLED. PROVIDE TEMPORARY POWER AS REQUIRED TO MAINTAIN THE EXISTING LIGHTING SYSTEM.
- 8. ALL EXISTING UNDERPASS LIGHTING EQUIPMENT SHOWN ON THIS DRAWING WAS INSTALLED AS PART OF THE 59TH STREET BRIDGE RECONSTRUCTION.
- COORDINATE ALL ELECTRICAL WORK WITH CIVIL WORK, IDOT CONTRACT NUMBER 62583, 59TH STREET BRIDGE CONTRACTOR, CONSTRUCTION STAGING AND TRAFFIC CONTROL OVERVIEW PLANS.
- 10. CONTRACTOR MUST MAINTAIN THE ROADWAY LIGHTING CIRCUIT CONTINUITY TO PROVIDE TEMPORARY POWER TO THE EXISTING ROADWAY LIGHTING UNITS SOUTH OF 59TH STREET AND THE LIGHTED SIGN STRUCTURE LOCATED AT STATION 1452+07.

	JUNCTION BOX SCHEDULE		
NO.	SIZE	DESCRIPTION	
JB2	12"X10"X6"	STAINLESS STEEL, ATTACHED TO STRUCTURE, UNDERPASS LIGHTING	

CABLE /CONDUIT SCHEDULE

3-1/C*10, 1-1/C*10 GND IN 1" DIA PVCC RGC ATTACHED TO STRUCTURE (CKTS AS INDICATED ON THIS DRAWING)

## SEQUENCE OF WORK (NOTE 9):

2004: INSTALL PRIMARY POWER FEEDS AS SHOWN ON RL-31 AND CONNECT EXISTING CIRCUITS TO NEW CIRCUITS (NOTE 7)

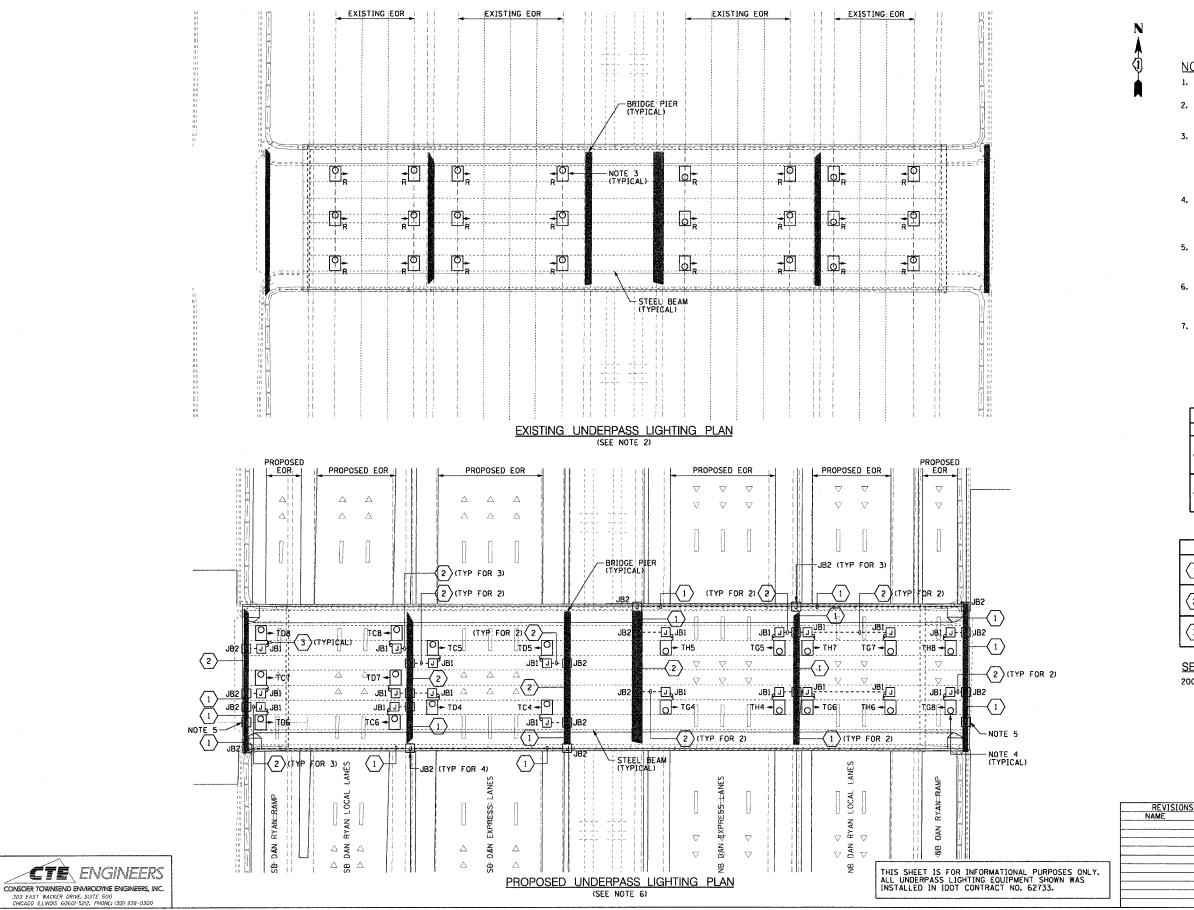


REVISIONS
NAME DATE

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

UNDERPASS LIGHTING PLANS 59TH STREET

SCALE: 1"=20" DATE: October 29, 2004



SECTION COUNTY 90/94 2003-0311 COOK 976 384 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.
- 2. LOCATIONS OF EXISTING ELECTRICAL EQUIPMENT SHOWN ON THIS DRAWING ARE APPROXIMATIONS AND MUST BE VERIFIED IN THE FIELD BY THE CONTRACTOR.
- 3. THE REMOVAL OF EXISTING UNDERPASS LUMINAIRES MUST INCLUDE THE REMOVAL OF ALL CABLES, CONDUIT, AND HARDWARE ASSOCIATED WITH THE EXISTING UNDERPASS LIGHTING. COST FOR THIS WORK WILL NOT BE PAID FOR SEPARATELY BUT WILL BE INCLUDED AS PART OF THE "REMOVE EXISTING UNDERPASS LUMINAIRE, AND SALVAGE" PAY ITEM.
- 4. ALL PROPOSED UNDERPASS LUMINAIRES SHOWN ON THIS DRAWING MUST BE PENDANT MOUNTED OFFSET 2 FEET FROM EDGE OF ROADWAY (EOR) UNLESS NOTED OTHERWISE. SEE DRAWING ME-O6 FOR PENDANT MOUNTED UNDERPASS LIGHTING DETAILS.
- 5. SPLICE NEW UNDERPASS LIGHTING CIRCUIT CABLES TO THE SERVICE FEED CABLES LOCATED IN THE JUNCTION BOX. SEE DRAWING RL-32 FOR CONTINUATION OF UNDERPASS LIGHTING CIRCUIT FEEDS.
- 6. ALL PROPOSED UNDERPASS LIGHTING UNITS SHOWN ON THIS DRAWING WILL BE FED FROM IDOT LIGHTING CONTROLLER "T". SEE DRAWING SL-08 FOR SINGLE LINE DIAGRAM OF LIGHTING CONTROLLER "T".
- COORDINATE ALL ELECTRICAL WORK WITH CIVIL WORK, IDOT CONTRACT NUMBER 62586, CONSTRUCTION STAGING AND TRAFFIC CONTROL OVERVIEW PLANS.

	JUNCTIO	ON BOX SCHEDULE
NO.	SIZE	DESCRIPTION
JB1	6"X6"X4"	STAINLESS STEEL, ATTACHED TO STRUCTURE, UNDERPASS LIGHTING
JB2	12"X10"X6"	STAINLESS STEEL, ATTACHED TO STRUCTURE, UNDERPASS LIGHTING

CABLE /CONDUIT SCHEDULE			
1	3-1/C*10, 1-1/C*10 GND IN 1" DIA PVCC RGC ATTACHED TO STRUCTURE (CKTS AS INDICATED ON THIS DRAWING)		
(2)	2-1/C*10, 1-1/C*10 GND IN 1" DIA PVCC RGC ATTACHED TO STRUCTURE (CKTS AS INDICATED ON THIS DRAWING)		
(3)	2-1/C*10, 1-1/C*10 GND IN 1" DIA LIQUID TIGHT FLEXIBLE CONDUIT (CKTS AS INDICATED ON THIS DRAWING)		

#### SEQUENCE OF WORK (NOTE 7):

2004: INSTALL PRIMARY POWER FEEDS AS SHOWN ON RL-32 AND CONNECT EXISTING CIRCUITS TO NEW CIRCUITS

INSTALL UNDERPASS LIGHTING IN RAMP LANES INSTALL UNDERPASS LIGHTING IN EXPRESS LANES

INSTALL UNDERPASS LIGHTING IN LOCAL LANES

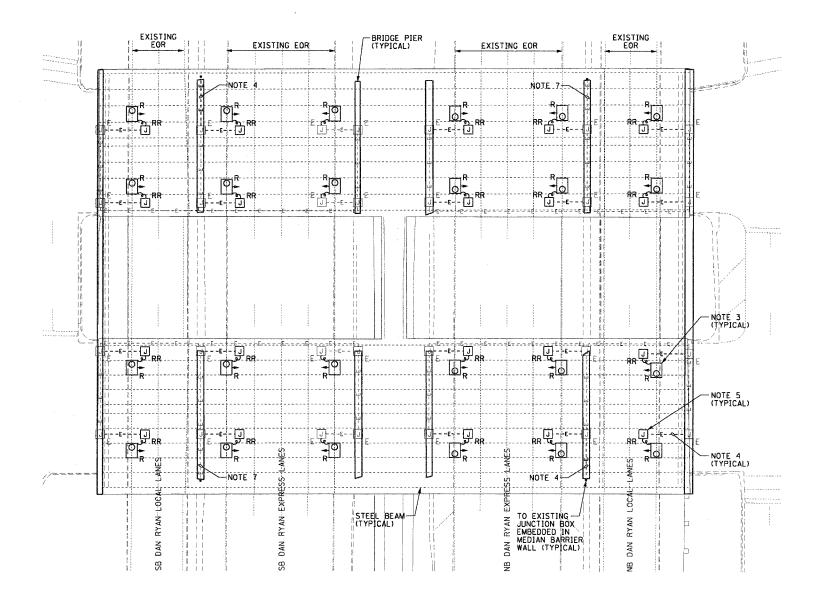


ILLINOIS DEPARTMENT OF TRANSPORTATION

	ILLINGIS DEPARTMENT OF TRANSPORTATION
DATE	F.A.I. 90/94 (DAN RYAN EXPRESSWAY)
	31st STREET TO 1-57
	UNDERPASS LIGHTING PLANS 57TH STREET
	STIN STREET
	DATE

CHTING PLANS TREET

SCALE: 1"=20" DRAWN BY: HAR DATE: October 29, 2004 CHECKED BY: WDS



EXISTING UNDERPASS LIGHTING PLAN (SEE NOTES 2 AND 8)



625

## NOTES:

- SEE DRAWINGS ME-01 AND ME-02 FOR ELECTRICAL SYMBOLS AND ABBREVIATIONS.
- LOCATIONS OF EXISTING ELECTRICAL EQUIPMENT SHOWN ON THIS DRAWING ARE APPROXIMATIONS AND MUST BE VERIFIED IN THE FIELD BY THE CONTRACTOR.
- 3. THE REMOVAL OF EXISTING UNDERPASS LUMINAIRES MUST INCLUDE THE REMOVAL OF ALL CABLES AND CONDUIT BACK TO THE NEAREST JUNCTION BOX, COST FOR THIS WORK WILL NOT BE PAID FOR SEPARATELY BUT WILL BE INCLUDED AS PART OF THE "REMOVE EXISTING UNDERPASS LUMINAIRE, AND SALVAGE" PAY ITEM.
- 4. REMOVE EXISTING CABLE AND CONDUIT ATTACHED TO STRUCTURE BACK TO THE NEAREST JUNCTION BOX AND PROVIDE PLUG FOR EXISTING JUNCTION BOX HOLE.
- 5. RELOCATE ALL EXISTING JUNCTION BOXES DESIGNATED TO BE REMOVED AND REINSTALLED (RR) TO THE NEW UNDERPASS LUMINAIRE LOCATIONS AS SHOWN ON DRAWING UL-30.
- 6. CONTRACTOR IS RESPONSIBLE FOR THE MAINTENANCE OF THE EXISTING LIGHTING SYSTEM SHOWN ON THIS DRAWING, PROVIDE TEMPORARY POWER AS REQUIRED TO MAINTAIN THE EXISTING LIGHTING SYSTEM.
- 7. ELECTRICAL WORK COMPLETED AS PART OF IDOT CONTRACT NUMBER 62733.
- 8. COORDINATE ALL ELECTRICAL WORK WITH CIVIL WORK, IDOT CONTRACT NUMBER 62733, CONSTRUCTION STAGING AND TRAFFIC CONTROL OVERVIEW PLANS.

50' 100 1" = 20' UL -29

REVISION NAME	NS.
NAME	DATE

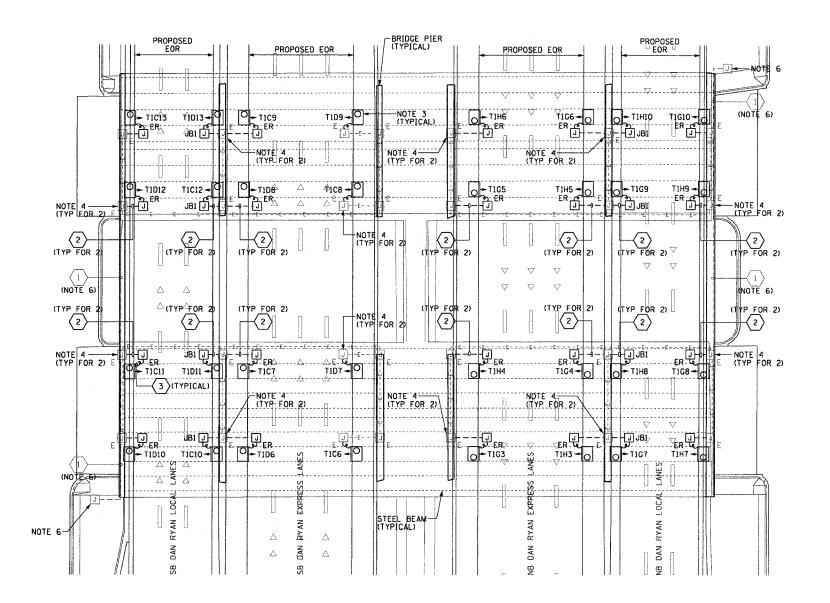
ILLINOIS DEPARTMENT OF TRANSPORTATION F.A.I. 90/94 (DAN RYAN EXPRESSWAY)

31st STREET TO I-57

UNDERPASS LIGHTING PLANS
55TH STREET
EXISTING CONDITIONS AND DEMOLITION

SCALE: 1"=20'

DATE: October 29, 2004



PROPOSED UNDERPASS LIGHTING PLAN
(SEE NOTES 2 & 5)



62583

## NOTES:

- SEE DRAWINGS ME-01 AND ME-02 FOR ELECTRICAL SYMBOLS AND ABBREVIATIONS.
- 2. LOCATIONS OF EXISTING ELECTRICAL EQUIPMENT SHOWN ON THIS DRAWING ARE APPROXIMATIONS AND MUST BE VERIFIED IN THE FIELD BY THE CONTRACTOR.
- 3. ALL PROPOSED UNDERPASS LUMINAIRES SHOWN ON THIS DRAWING MUST BE PENDANT MOUNTED OFFSET 2 FEET FROM EDGE OF ROADWAY (EOR) UNLESS NOTED OTHERWISE. SEE DRAWING ME-O6 FOR PENDANT MOUNTED UNDERPASS LIGHTING DETAILS.
- 4. SPLICE NEW UNDERPASS LIGHTING CIRCUIT CABLES TO THE EXISTING UNDERPASS LIGHTING CIRCUIT CABLES LOCATED IN THE EXISTING JUNCTION BOX.
- 5. ALL PROPOSED UNDERPASS LIGHTING UNITS SHOWN ON THIS DRAWING WILL BE FED FROM IDOT LIGHTING CONTROLLER "TI", SEE DRAWING SLO8-09 FOR SINGLE LINE DIAGRAM OF LIGHTING CONTROLLER "TI".
- 6. ELECTRICAL WORK COMPLETED AS PART OF IDOT CONTRACT NUMBER 62733.
- COORDINATE ALL ELECTRICAL WORK WITH CIVIL WORK, IDOT CONTRACT NUMBER 62733, CONSTRUCTION STAGING AND TRAFFIC CONTROL OVERVIEW PLANS.

JUNCTION BOX SCHEDULE				
NO.	SIZE	DESCRIPTION		
JB1	6"X6"X4"	STAINLESS STEEL, ATTACHED TO STRUCTURE, UNDERPASS LIGHTING		
JB2	12"X10"X6"	STAINLESS STEEL, ATTACHED TO STRUCTURE, UNDERPASS LIGHTING		

	CABLE /CONDUIT SCHEDULE
(1)	3-1/C*10, 1-1/C*10 GND IN 1" DIA PVCC RGC ATTACHED TO STRUCTURE (CKTS AS INDICATED ON THIS DRAWING)
2	2-1/C*10, 1-1/C*10 GND IN 1" DIA PVCC RGC ATTACHED TO STRUCTURE (CKTS AS INDICATED ON THIS DRAWING)
(3)	2-1/C*10, 1-1/C*10 GND IN 1" DIA LIQUID TIGHT FLEXIBLE CONDUIT (CKTS AS INDICATED ON THIS DRAWING)

#### SEQUENCE OF WORK (NOTE 7):

2006: REPLACE UNDERPASS LIGHTING IN EXPRESS LANES
2007: REPLACE UNDERPASS LIGHTING IN LOCAL LANES



REVISIO	NS
NAME	DATE

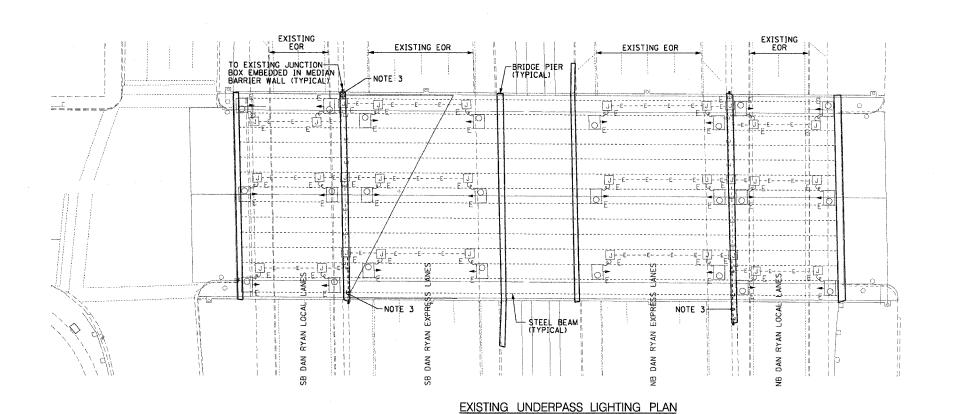
ILLINOIS DEPARTMENT OF TRANSPORTATION F.A.I. 90/94 (DAN RYAN EXPRESSWAY)

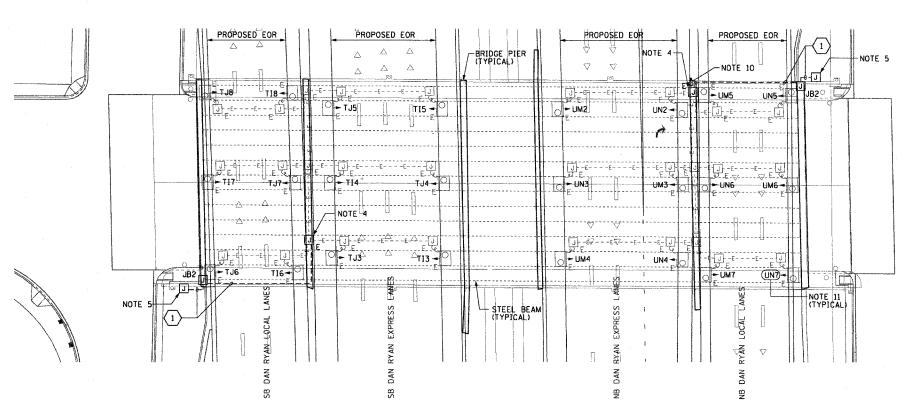
31s+ STREET TO 1-57

UNDERPASS LIGHTING PLANS 55TH STREET PROPOSED IMPROVEMENTS

SCALE: 1"=20"

DATE: October 29, 2004





(SEE NOTE 2)

PROPOSED UNDERPASS LIGHTING PLAN
(SEE NOTE 6)

SOS EAST MACKER DRIVE, SUITE 600
(CHOLORO LIVINGS GROOD-SCI2, PHONE: (382) 939-0300

THIS SHEET IS FOR INFORMATIONAL PURPOSES ONLY. ALL UNDERPASS LIGHTING EQUIPMENT SHOWN WAS INSTALLED IN IDOT CONTRACT NO. 62733.

62583

## NOTES:

- SEE DRAWINGS ME-O1 AND ME-O2 FOR ELECTRICAL SYMBOLS AND ABBREVIATIONS.
- 2. LOCATIONS OF EXISTING ELECTRICAL EQUIPMENT SHOWN ON THIS DRAWING ARE APPROXIMATIONS AND MUST BE VERIFIED IN THE FIELD BY THE CONTRACTOR.
- 3. REMOVE AND DISPOSE OF EXISTING CABLE AND CONDUIT ATTACHED TO STRUCTURE AND PROVIDE PLUG AS REQUIRED FOR EXISTING JUNCTION BOX HOLE.
- 4. PROVIDE A NEW FEEDER TO EXISTING UNDERPASS LIGHTING AS SHOWN. SPLICE NEW UNDERPASS LIGHTING CIRCUIT CABLES TO THE EXISTING UNDERPASS LIGHTING CIRCUIT CABLES LOCATED IN THE EXISTING JUNCTION BOX.
- 5. SPLICE NEW UNDERPASS LIGHTING CIRCUIT CABLES TO THE SERVICE FEED CABLES LOCATED IN THE JUNCTION BOX. SEE DRAWING RL-35 FOR CONTINUATION OF UNDERPASS LIGHTING CIRCUIT FEEDS.
- 6. ALL UNDERPASS LIGHTING UNITS SHOWN ON THIS DRAWING WILL BE FED FROM 100T LIGHTING CONTROLLERS "TI" AND "U". SEE DRAWINGS SL-09 AND SL-10 FOR SINGLE LINE DIAGRAMS OF LIGHTING CONTROLLERS "TI" AND "U".
- 7. CONTRACTOR IS RESPONSIBLE FOR THE MAINTENANCE OF THE EXISTING LIGHTING SYSTEM SHOWN ON THIS DRAWING. THE EXISTING ELECTRICAL POWER FEEDS MAY NOT BE REMOVED UNTIL SUCH TIME AS THE PROPOSED POWER FEEDS ARE INSTALLED. PROVIDE TEMPORARY POWER AS REQUIRED TO MAINTAIN THE EXISTING LIGHTING SYSTEM.

8.

- COORDINATE ALL ELECTRICAL WORK WITH CIVIL WORK, IDOT CONTRACT NUMBER 62583, CONSTRUCTION STAGING AND TRAFFIC CONTROL OVERVIEW PLANS.
- 10. CONTRACTOR MUST MAINTAIN THE ROADWAY LIGHTING CIRCUIT CONTINUITY TO PROVIDE TEMPORARY POWER TO THE LIGHTED SIGN STRUCTURES LOCATED AT STATIONS 2508+82 AND 2523+02.
- 11. CONTRACTOR MUST PROVIDE NEW LUMINAIRE NUMBERING DECALS AS SHOWN ON THIS DRAWING.

	JUNCTI	ON BOX SCHEDULE
NO.	SIZE	DESCRIPTION
JB2	12"X10"X6"	STAINLESS STEEL, ATTACHED TO STRUCTURE, UNDERPASS LIGHTING

	CABLE /CONDUIT SCHEDULE
(1)	3-1/C*10, 1-1/C*10 GND IN 1" DIA PVCC RGC ATTACHED TO STRUCTURE (CKTS AS INDICATED ON THIS DRAWING)

## SEQUENCE OF WORK (NOTE 9):

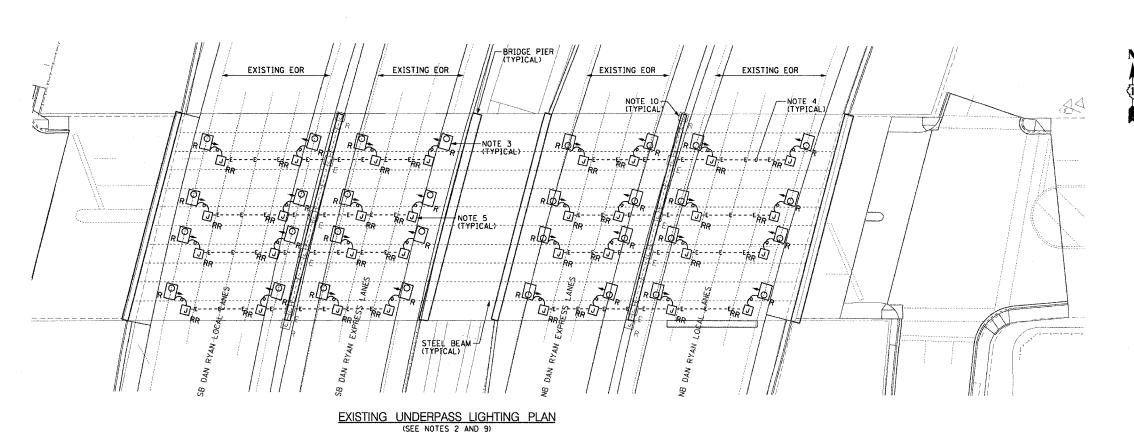
2004: INSTALL PRIMARY POWER FEEDS AS SHOWN ON RL-35 AND CONNECT EXISTING CIRCUITS TO NEW CIRCUITS (NOTE 7)

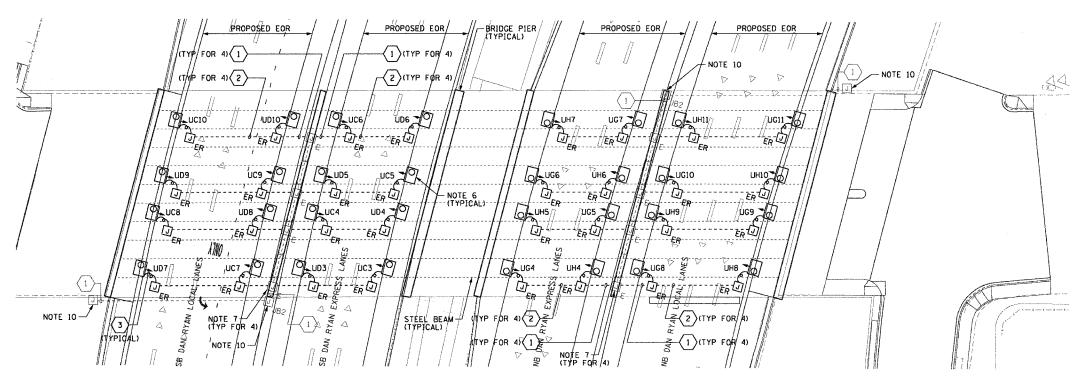


REVISIO	NS	ILLINOIS DEPARTMENT OF TRANSPORTATION
NAME	DATE	F.A.I. 90/94 (DAN RYAN EXPRESSWAY)
		31st STREET TO 1-57
		UNDERPASS LIGHTING PLANS

UNDERPASS LIGHTING PLANS 51ST STREET

SCALE: 1"=20" DATE: October 29, 2004





PROPOSED UNDERPASS LIGHTING PLAN
(SEE NOTE 8)

ENGINEERS
CONSOER TOWNSEND ENWINDERS ENGINEERS, INC.
303 EAST WACKER DRIVE, SUITE 600
CHCAGO LILLINOIS 6000-1222, PHONE (32) 938-0300

62583

## NOTES:

- 1. SEE DRAWINGS ME-01 AND ME-02 FOR ELECTRICAL SYMBOLS AND ABBREVIATIONS.
- 2. LOCATIONS OF EXISTING ELECTRICAL EQUIPMENT SHOWN ON THIS DRAWING ARE APPROXIMATIONS AND MUST BE VERIFIED IN THE FIELD BY THE CONTRACTOR.
- 3. THE REMOVAL OF EXISTING UNDERPASS LUMINAIRES MUST INCLUDE THE REMOVAL OF ALL CABLES AND CONDUIT BACK TO THE NEAREST JUNCTION BOX. COST FOR THIS WORK WILL NOT BE PAID FOR SEPARATELY BUT WILL BE INCLUDED AS PART OF THE "REMOVE EXISTING UNDERPASS LUMINAIRE, AND SALVAGE" PAY ITEM.
- 4. REMOVE AND DISPOSE OF EXISTING CABLE AND CONDUIT ATTACHED TO STRUCTURE AND PROVIDE PLUG AS REQUIRED FOR EXISTING JUNCTION BOX HOLE.
- 5. RELOCATE ALL EXISTING JUNCTION BOXES DESIGNATED TO BE REMOVED AND REINSTALLED (RR) TO THE NEW UNDERPASS LUMINAIRE LOCATIONS AS SHOWN ON THIS DRAWING.
- 6. ALL PROPOSED UNDERPASS LUMINAIRES SHOWN ON THIS DRAWING MUST BE PENDANT MOUNTED OFFSET 2 FEET FROM EDGE OF ROADWAY (EOR) UNLESS NOTED OTHERWISE. SEE DRAWING ME-06 FOR PENDANT MOUNTED UNDERPASS LIGHTING DETAILS.
- SPLICE NEW UNDERPASS LIGHTING CIRCUIT CABLES TO THE EXISTING UNDERPASS LIGHTING CIRCUIT CABLES LOCATED IN THE EXISTING JUNCTION BOX.
- 8. ALL PROPOSED UNDERPASS LIGHTING UNITS SHOWN ON THIS DRAWING WILL BE FED FROM IDOT LIGHTING CONTROLLER "U". SEE DRAWING SLOB-10 FOR SINGLE LINE DIAGRAM OF LIGHTING CONTROLLER "U".
- 9. CONTRACTOR IS RESPONSIBLE FOR THE MAINTENANCE OF THE EXISTING LIGHTING SYSTEM SHOWN ON THIS DRAWING. PROVIDE TEMPORARY POWER AS REQUIRED TO MAINTAIN THE EXISTING LIGHTING SYSTEM.
- ELECTRICAL WORK COMPLETED AS PART OF IDOT CONTRACT NUMBER 62733.
- 11. COORDINATE ALL ELECTRICAL WORK WITH CIVIL WORK, IDOT CONTRACT NUMBER 62733, CONSTRUCTION STAGING AND TRAFFIC CONTROL OVERVIEW PLANS.

	JUNCTIO	ON BOX SCHEDULE
NO.	SIZE	DESCRIPTION
JB2	12"X10"X6"	STAINLESS STEEL, ATTACHED TO STRUCTURE, UNDERPASS LIGHTING

	CABLE /CONDUIT SCHEDULE
1	3-1/C*10, 1-1/C*10 GND IN 1" DIA PVCC RGC ATTACHED TO STRUCTURE (CKTS AS INDICATED ON THIS DRAWING)
(2)	2-1/C*10, 1-1/C*10 GND IN 1" DIA PVCC RGC ATTACHED TO STRUCTURE (CKTS AS INDICATED ON THIS DRAWING)
(3)	2-1/C*10, 1-1/C*10 GND IN 1" DIA LIQUID TIGHT FLEXIBLE CONDUIT (CKTS AS INDICATED ON THIS DRAWING)

## SEQUENCE OF WORK (NOTE 11):

2006: REPLACE UNDERPASS LIGHTING IN EXPRESS LANES 2007: REPLACE UNDERPASS LIGHTING IN LOCAL LANES



REVISIONS		
NAME	DATE	
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ILLINOIS DEPARTMENT OF TRANSPORTATION F.A.I. 90/94 (DAN RYAN EXPRESSWAY) 31st STREET TO 1-57

> UNDERPASS LIGHTING PLANS 47TH STREET

SCALE: 1"=20'
DATE: October 29, 2004

F.A.I. RTE.	SECTION	Т	COUNT	SHEE	AL TS	SHEET NO.
94/90	2003-0311		соок	976	ŝ	389
STA.		TO	STA.			
FED. ROA	D DIST. NO. I	LLINOIS	FED. A	ID PROJ	ECT	

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N A (I)

#### NOTES

- SEE DRAWING ME-01 FOR ELECTRICAL SYMBOLS, ABBREVIATION, AND NOTES.
- 2. LOCATIONS OF EXISTING ELECTRICAL EQUIPMENT SHOWN ON THIS DRAWING ARE APPROXIMATIONS AND MUST BE VERIFIED IN THE FIELD BY THE CONTRACTOR.
- 3. SEE DRAWING ME-O6 FOR SUSPENDED UNDERPASS LUMINAIRE MOUNTING AND CABLE & CONDUIT DETAILS.
- 4. SEE DRAWING RLO8-40 FOR CONTINUATION OF UNDERPASS LIGHTING CIRCUIT FEEDS.
- 5. ALL PROPOSED UNDERPASS LIGHTING UNITS SHOWN ON THIS DRAWING WILL BE FED FROM IDOT LIGHTING CONTROLLER "Y", SEE DRAWING SLO8-01 FOR SINGLE LINE DIAGRAM FOR LIGHTING CONTROLLER "Y".
- 6. CONTRACTOR MUST REMOVE AND DISPOSE OF ALL EXISTING CABLE, CONDUIT, JUNCTION BOXES, AND ALL MOUNTING HARDWARE ASSOCIATED WITH THE EXISTING UNDERPASS LIGHTING.
- SPLICE THE NEW UNDERPASS LIGHTING CIRCUITS OVER THE EXPRESS LANES TO THE EXISTING UNDERPASS LIGHTING CIRCUITS OVER THE LOCAL LANES DURING 2006.
- 8. THE CONTRACTOR IS RESPONSIBLE FOR THE MAINTENANCE OF THE EXISTING LIGHTING SYSTEM SHOWN ON THIS DRAWING. THE EXISTING ELECTRICAL POWER FEEDS MAY NOT BE REMOVED UNTIL SUCH TIME AS THE PROPOSED POWER FEEDS ARE INSTALLED. PROVIDE TEMPORARY POWER AS REQUIRED TO MAINTAIN THE EXISTING LIGHTING SYSTEM AND THE PROPOSED LIGHTING SYSTEM AT DIFFERENT STAGES.

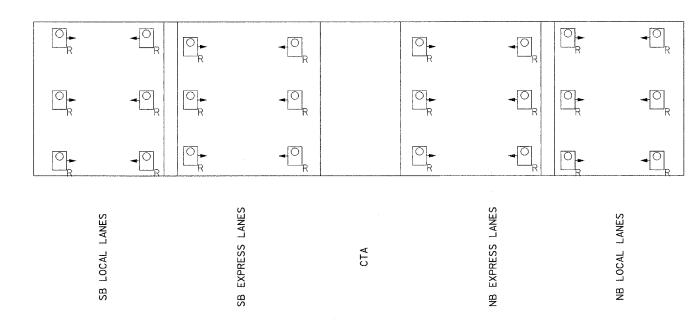
#### SEQUENCE OF WORK

2005: EXISTING UNDERPASS LIGHTING CONNECTED TO EXISTING CONTROLLER.

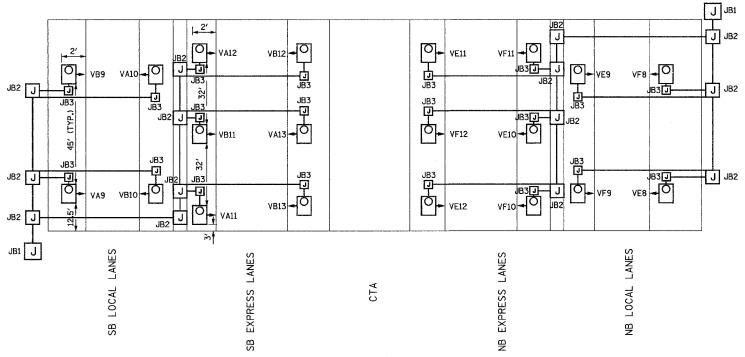
2006: PROPOSED UNDERPASS LIGHTING OVER THE EXPRESS LANES AND EXISTING UNDERPASS LIGHTING OVER LOCAL LANES CONNECTED TO PROPOSED CONTROLLER.

2007: PROPOSED UNDERPASS LIGHTING CONNECTED TO PROPOSED CONTROLLER.

	J	UNCTION BOX SCHEDULE
NO.	SIZE	DESCRIPTION
JB1	12"×12"×6"	STAINLESS STEEL ATTACHED TO STRUCTURE
JB2	12"x10"x6"	STAINLESS STEEL ATTACHED TO ABUTMENT OR TOP OF PIER AS SHOWN
JB3	6"x6"x4"	STAINLESS STEEL ATTACHED TO ABUTMENT OR TOP OF PIER AS SHOWN



EXISTING UNDERPASS LIGHTING PLAN



PROPOSED UNDERPASS LIGHTING PLAN

REVISIONS
NAME DATE
EVISED 1/21/05

F.A.I. 94/90 (DAN RYAN EXPRESSWAY)
31st STREET TO 1-57

UNDERPASS LIGHTING PLAN
43rd STREET

SCALE: NONE

DATE: OCTOBER 29, 2004

DRAWN BY: BL CHECKED BY: SM

UL-33

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

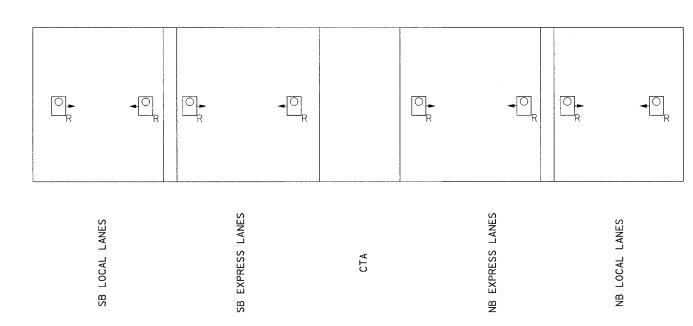
62583



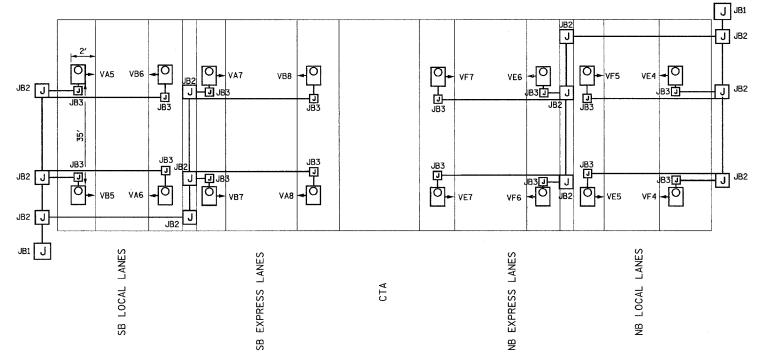
#### NOTES:

- 1. SEE DRAWING ME-01 FOR ELECTRICAL SYMBOLS, ABBREVIATION, AND NOTES.
- 2. LOCATIONS OF EXISTING ELECTRICAL EQUIPMENT SHOWN ON THIS DRAWING ARE APPROXIMATIONS AND MUST BE VERIFIED IN THE FIELD BY THE
- 3. SEE DRAWING ME-06 FOR SUSPENDED UNDERPASS LUMINAIRE MOUNTING AND CABLE & CONDUIT DETAILS.
- 4. SEE DRAWING RLO8-41 FOR CONTINUATION OF UNDERPASS LIGHTING CIRCUIT FEEDS.
- 5. ALL PROPOSED UNDERPASS LIGHTING UNITS SHOWN ON THIS DRAWING WILL BE FED FROM IDOT LIGHTING CONTROLLER "V". SEE DRAWING SLO8-01 FOR SINGLE LINE DIAGRAM FOR LIGHTING CONTROLLER "V".
- 6. CONTRACTOR MUST REMOVE AND DISPOSE OF ALL EXISTING CABLE, CONDUIT, JUNCTION BOXES, AND ALL MOUNTING HARDWARE ASSOCIATED WITH THE EXISTING UNDERPASS LIGHTING.
- 7. SPLICE THE NEW UNDERPASS LIGHTING CIRCUITS OVER THE EXPRESS LANES TO THE EXISTING UNDERPASS LIGHTING CIRCUITS OVER THE LOCAL LANES DURING 2006.
- 8. THE CONTRACTOR IS RESPONSIBLE FOR THE MAINTENANCE
  OF THE EXISTING LIGHTING SYSTEM SHOWN ON THIS DRAWING.
  THE EXISTING ELECTRICAL POWER FEEDS MAY NOT BE REMOVED
  UNTIL SUCH TIME AS THE PROPOSED POWER FEEDS ARE
  INSTALLED. PROVIDE TEMPORARY POWER AS REQUIRED TO
  MAINTAIN THE EXISTING LIGHTING SYSTEM AND THE PROPOSED
  LIGHTING SYSTEM AT DIFFERENT STAGES.

	J	UNCTION BOX SCHEDULE
NO.	SIZE	DESCRIPTION
JB1	12"x12"x6"	STAINLESS STEEL ATTACHED TO STRUCTURE
JB2	12"x10"x6"	STAINLESS STEEL ATTACHED TO ABUTMENT OR TOP OF PIER AS SHOWN
JB3	6"x6"x4"	STAINLESS STEEL ATTACHED TO ABUTMENT OR TOP OF PIER AS SHOWN



EXISTING UNDERPASS LIGHTING PLAN



FUTURE UNDERPASS LIGHTING PLAN

REVISIONS ILLI
NAME DATE
REVISED 1/21/05

SCALE: NO

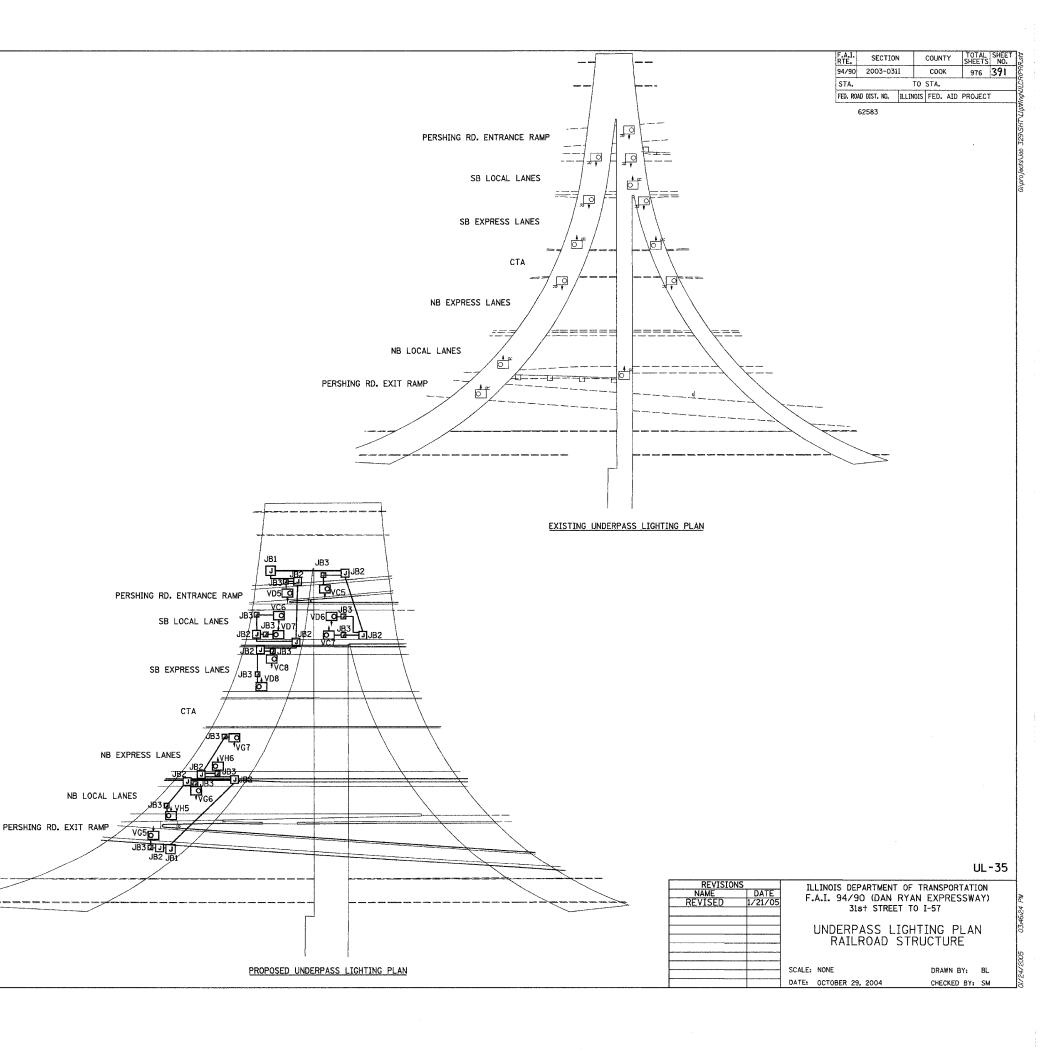
ILLINOIS DEPARTMENT OF TRANSPORTATION F.A.I. 94/90 (DAN RYAN EXPRESSWAY) 31st STREET TO I-57

> UNDERPASS LIGHTING PLAN ROOT STREET

SCALE: NONE

DRAWN BY: BL CHECKED BY: SM

FOR INFORMATION ONLY



#### NOTES:

- 1. SEE DRAWING ME-01 FOR ELECTRICAL SYMBOLS,
- 2. LOCATIONS OF EXISTING ELECTRICAL EQUIPMENT SHOWN ON THIS DRAWING ARE APPROXIMATIONS AND MUST BE VERIFIED IN THE FIELD BY THE CONTRACTOR.
- 3. SEE DRAWING ME-05 FOR SUSPENDED UNDERPASS LUMINAIRE MOUNTING AND CABLE & CONDUIT DETAILS.
- 4. SEE DRAWING RLO8-42 FOR CONTINUATION OF UNDERPASS LIGHTING CIRCUIT FEEDS.
- 5. ALL PROPOSED UNDERPASS LIGHTING UNITS SHOWN ON THIS DRAWING WILL BE FED FROM IDOT LIGHTING CONTROLLER "V". SEE DRAWING SLO8-01 FOR SINGLE LINE DIAGRAM FOR LIGHTING CONTROLLER "V".
- 6. CONTRACTOR MUST REMOVE AND DISPOSE OF ALL EXISTING CABLE, CONDUIT, JUNCTION BOXES, AND ALL MOUNTING HARDWARE ASSOCIATED WITH THE EXISTING UNDERPASS LIGHTING.
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## SEQUENCE OF WORK

2005: EXISTING UNDERPASS LIGHTING CONNECTED TO EXISTING CONTROLLER.

2006: PROPOSED UNDERPASS LIGHTING OVER THE EXPRESS LANES AND EXISTING UNDERPASS LIGHTING OVER LOCAL LANES CONNECTED TO PROPOSED CONTROLLER.

2007: PROPOSED UNDERPASS LIGHTING CONNECTED TO PROPOSED CONTROLLER.

		JUNCTION BOX SCHEDULE
NO.	SIZE	DESCRIPTION
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JB3	6"×6"×4"	STAINLESS STEEL ATTACHED TO ABUTMENT OR TOP OF PIER AS SHOWN

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

- 1. SEE DRAWING ME-01 FOR ELECTRICAL SYMBOLS, ABBREVIATION, AND NOTES.
- LOCATIONS OF EXISTING ELECTRICAL EQUIPMENT SHOWN ON THIS DRAWING ARE APPROXIMATIONS AND MUST BE VERIFIED IN THE FIELD BY THE
- 3. SEE DRAWING ME-O6 FOR SUSPENDED UNDERPASS LUMINAIRE MOUNTING AND CABLE & CONDUIT DETAILS.
- 4. SEE DRAWING RLO8-42 FOR CONTINUATION OF UNDERPASS LIGHTING CIRCUIT FEEDS.
- 5. ALL PROPOSED UNDERPASS LIGHTING UNITS SHOWN ON THIS DRAWING WILL BE FED FROM IDOT LIGHTING CONTROLLER "V". SEE DRAWING SLO8-01 FOR SINGLE LINE DIAGRAM FOR LIGHTING CONTROLLER "V".
- 6. CONTRACTOR MUST REMOVE AND DISPOSE OF ALL EXISTING CABLE, CONDUIT, JUNCTION BOXES, AND ALL MOUNTING HARDWARE ASSOCIATED WITH THE EXISTING UNDERPASS LIGHTING.
- 7. SPLICE THE NEW UNDERPASS LIGHTING CIRCUITS OVER THE EXPRESS LANES TO THE EXISTING UNDERPASS LIGHTING CIRCUITS OVER THE LOCAL LANES DURING 2006.
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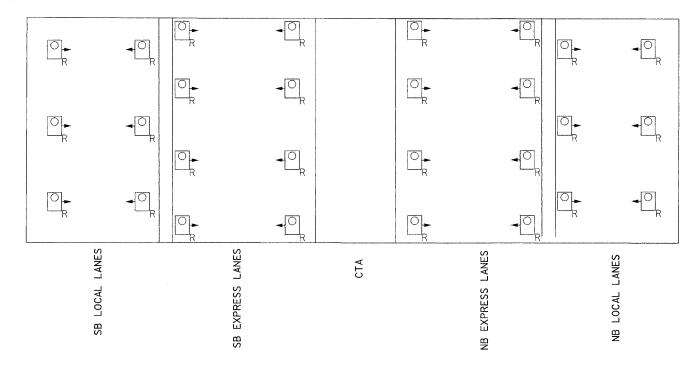
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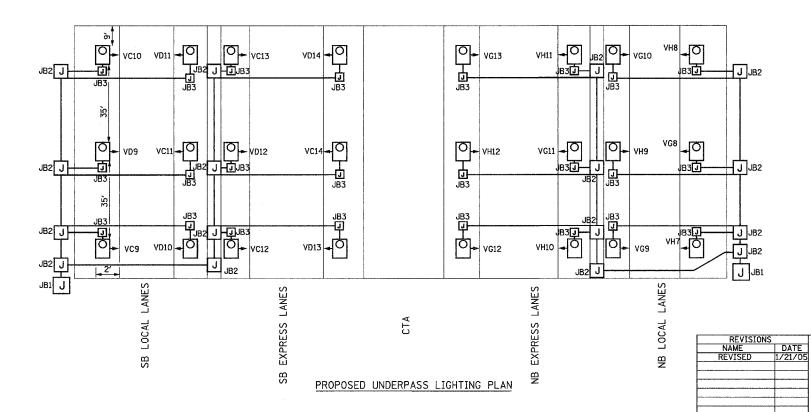
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EXISTING UNDERPASS LIGHTING PLAN



UL-36

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

SECTION

94/90 2003-0311

62583

STA.

COUNTY

976 392

соок

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

UNDERPASS LIGHTING PLAN PERSHING ROAD

SCALE: NONE DATE: OCTOBER 29, 2004

DRAWN BY: BL CHECKED BY: SM

KAM ENGINEERING, INC. CONSULTING ENGINEERS 707A Davis Road, Suite 205 Eigin, Illinois 60i23-1369

#### NOTES:

- SEE DRAWING ME-01 FOR ELECTRICAL SYMBOLS, ABBREVIATION, AND NOTES.
- 2. LOCATIONS OF EXISTING ELECTRICAL EQUIPMENT SHOWN ON THIS DRAWING ARE APPROXIMATIONS AND MUST BE VERIFIED IN THE FIELD BY THE
- 3. SEE DRAWING ME-OG FOR SUSPENDED UNDERPASS LUMINAIRE MOUNTING AND CABLE & CONDUIT DETAILS.
- 4. SEE DRAWING RLO8-45 FOR CONTINUATION OF UNDERPASS LIGHTING CIRCUIT FEEDS.
- 5. ALL PROPOSED UNDERPASS LIGHTING UNITS SHOWN ON THIS DRAWING WILL BE FED FROM IDOT LIGHTING CONTROLLER "W". SEE DRAWING SLO8-02 FOR SINGLE LINE DIAGRAM FOR LIGHTING CONTROLLER "W".
- CONTRACTOR MUST REMOVE AND DISPOSE OF ALL EXISTING CABLE, CONDUIT, JUNCTION BOXES, AND ALL MOUNTING HARDWARE ASSOCIATED WITH THE EXISTING UNDERPASS LIGHTING.
- 7. SPLICE THE NEW UNDERPASS LIGHTING CIRCUITS OVER THE EXPRESS LANES TO THE EXISTING UNDERPASS LIGHTING CIRCUITS OVER THE LOCAL LANES DURING 2006.
- 8. THE CONTRACTOR IS RESPONSIBLE FOR THE MAINTENANCE OF THE EXISTING LIGHTING SYSTEM SHOWN ON THIS DRAWING. THE EXISTING ELECTRICAL POWER FEEDS MAY NOT BE REMOVED UNTIL SUCH TIME AS THE PROPOSED POWER FEEDS ARE INSTALLED PROVIDE TEMPORARY POWER AS REQUIRED TO MAINTAIN THE EXISTING LIGHTING SYSTEM AND THE PROPOSED LIGHTING SYSTEM AT DIFFERENT STAGES.

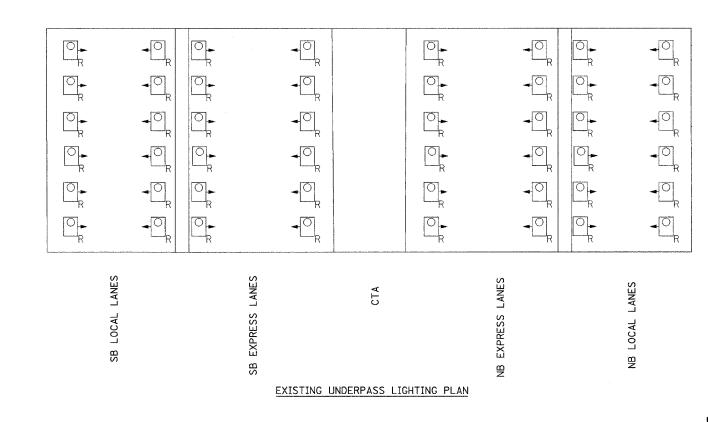
#### SEQUENCE OF WORK

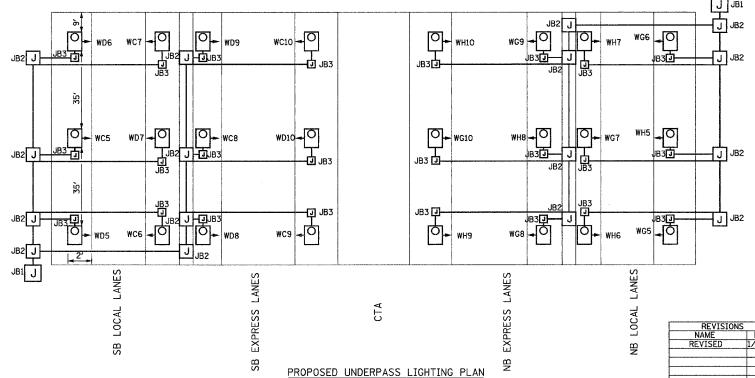
2005: EXISTING UNDERPASS LIGHTING CONNECTED TO EXISTING CONTROLLER.

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

UL-37

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

UNDERPASS LIGHTING PLAN 35+h STREET

SECTION 94/90 2003-0311

STA.

62583

СООК

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

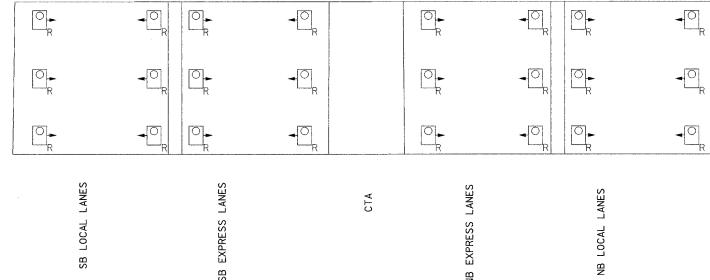
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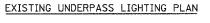
SCALE: NONE DATE: OCTOBER 29, 2004

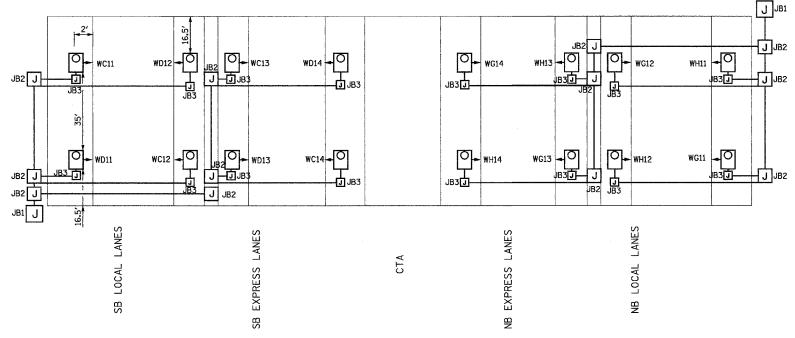
DRAWN BY: BL CHECKED BY: SM

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- 2. LOCATIONS OF EXISTING ELECTRICAL EQUIPMENT SHOWN ON THIS DRAWING ARE APPROXIMATIONS AND MUST BE VERIFIED IN THE FIELD BY THE
- 3. SEE DRAWING ME-06 FOR SUSPENDED UNDERPASS LUMINAIRE MOUNTING AND CABLE & CONDUIT DETAILS.
- 4. SEE DRAWING RLO8-46 FOR CONTINUATION OF UNDERPASS LIGHTING CIRCUIT FEEDS.
- 5. ALL PROPOSED UNDERPASS LIGHTING UNITS SHOWN ON THIS DRAWING WILL BE FED FROM IDOT LIGHTING CONTROLLER "W". SEE DRAWING SLO8-02 FOR SINGLE LINE DIAGRAM FOR LIGHTING CONTROLLER "W".
- 6. CONTRACTOR MUST REMOVE AND DISPOSE OF ALL EXISTING CABLE, CONDUIT, JUNCTION BOXES, AND ALL MOUNTING HARDWARE ASSOCIATED WITH THE EXISTING UNDERPASS LIGHTING.
- 7. SPLICE THE NEW UNDERPASS LIGHTING CIRCUITS OVER THE EXPRESS LANES TO THE EXISTING UNDERPASS LIGHTING CIRCUITS OVER THE LOCAL LANES DURING 2006.
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NO.	SIZE	DESCRIPTION
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JB3	6"x6"x4"	STAINLESS STEEL ATTACHED TO ABUTMENT OR TOP OF PIER AS SHOWN







FUTURE UNDERPASS LIGHTING PLAN

FOR INFORMATION ONLY

ILLINOIS DEPARTMENT OF TRANSPORTATION F.A.I. 94/90 (DAN RYAN EXPRESSWAY) 31st STREET TO I-57 UNDERPASS LIGHTING PLAN 33rd STREET

SECTION 94/90 2003-0311

STA.

62583

соок

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

976 394

SCALE: NONE

DRAWN BY: BL CHECKED BY: SM

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

UL-38

- 1. SEE DRAWING ME-01 FOR ELECTRICAL SYMBOLS, ABBREVIATION, AND NOTES.
- 2. LOCATIONS OF EXISTING ELECTRICAL EQUIPMENT SHOWN ON THIS DRAWING ARE APPROXIMATIONS AND MUST BE VERIFIED IN THE FIELD BY THE
- 3. SEE DRAWING ME-O6 FOR SUSPENDED UNDERPASS LUMINAIRE MOUNTING AND CABLE & CONDUIT DETAILS.
- 4. SEE DRAWING RLO8-47 FOR CONTINUATION OF UNDERPASS LIGHTING CIRCUIT FEEDS.
- 5. ALL PROPOSED UNDERPASS LIGHTING UNITS SHOWN ON THIS DRAWING WILL BE FED FROM IDOT LIGHTING CONTROLLER "X". SEE DRAWING SLOB-03 FOR SINGLE LINE DIAGRAM FOR LIGHTING CONTROLLER "X".
- 6. CONTRACTOR MUST REMOVE AND DISPOSE OF ALL EXISTING CABLE, CONDUIT, JUNCTION BOXES, AND ALL MOUNTING HARDWARE ASSOCIATED WITH THE EXISTING UNDERPASS LIGHTING.
- 7. SPLICE THE NEW UNDERPASS LIGHTING CIRCUITS OVER THE EXPRESS LANES TO THE EXISTING UNDERPASS LIGHTING CIRCUITS OVER THE LOCAL LANES DURING 2006.
- 8. THE CONTRACTOR IS RESPONSIBLE FOR THE MAINTENANCE OF THE EXISTING LIGHTING SYSTEM SHOWN ON THIS DRAWING. THE EXISTING ELECTRICAL POWER FEEDS MAY NOT BE REMOVED UNTIL SUCH TIME AS THE PROPOSED POWER FEEDS ARE INSTALLED. PROVIDE TEMPORARY POWER AS REQUIRED TO MAINTAIN THE EXISTING LIGHTING SYSTEM AND THE PROPOSED LIGHTING SYSTEM AT DIFFERENT STAGES.

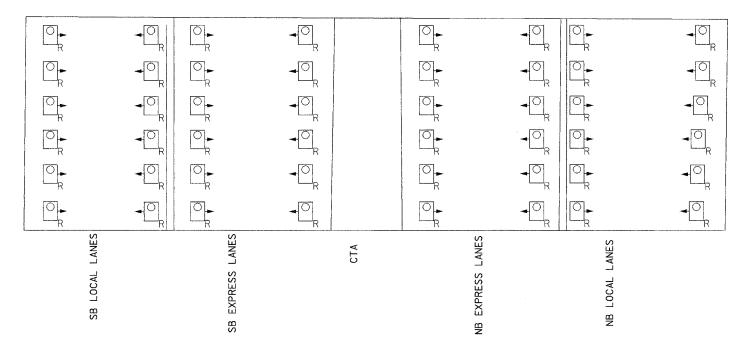
#### SEQUENCE OF WORK

2005: EXISTING UNDERPASS LIGHTING CONNECTED TO EXISTING CONTROLLER.

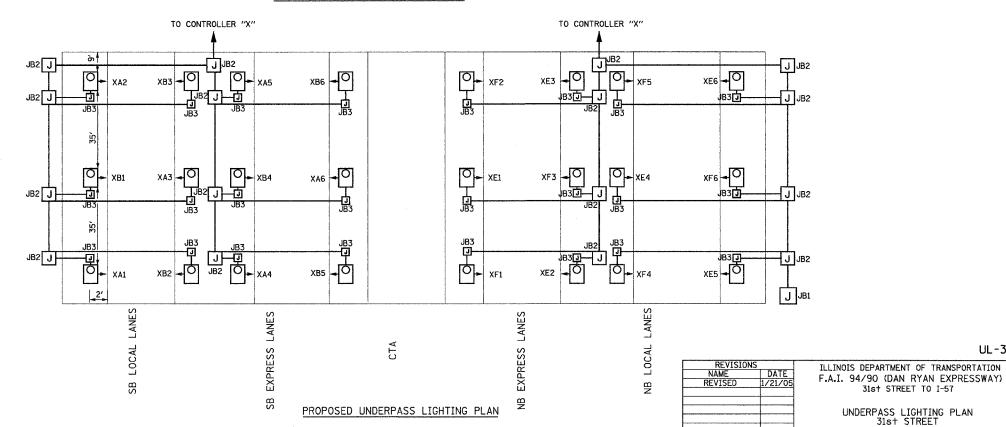
2006: PROPOSED UNDERPASS LIGHTING OVER THE EXPRESS LANES AND EXISTING UNDERPASS LIGHTING OVER LOCAL LANES CONNECTED TO PROPOSED CONTROLLER.

2007: PROPOSED UNDERPASS LIGHTING CONNECTED TO PROPOSED CONTROLLER.

	J	UNCTION BOX SCHEDULE
NO.	SIZE	DESCRIPTION
JB1	12"×12"×6"	STAINLESS STEEL ATTACHED TO STRUCTURE
JB2	12"x10"x6"	STAINLESS STEEL ATTACHED TO ABUTMENT OR TOP OF PIER AS SHOWN
JB3	6"x6"x4"	STAINLESS STEEL ATTACHED TO ABUTMENT OR TOP OF PIER AS SHOWN



# EXISTING UNDERPASS LIGHTING PLAN





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

UNDERPASS LIGHTING PLAN 31st STREET

SCALE: NONE

DATE: OCTOBER 29, 2004

DRAWN BY: CHECKED BY: SM

UL-39

COUNTY TOTAL SHEET NO.

976 395

COOK

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

SECTION 94/90 2003-0311

STA.

62583

## NOTES

- 1. CABINET SHALL BE FABRICATED FROM 3.175 (0.125-INCH) SHEET ALUMINUM # 3003H14, FORMED AND ARC WELDED ASSEMBLY.
- 2. ALL SCREWS AND HARDWARE SHALL BE PLATED, GALVANIZED, OR MADE OF BRASS, ALUMINUM OR STAINLESS STEEL.
- 3. NAME PLATE SHALL HAVE ENGRAVED 19.05 (0.75-INCH) HIGH LETTERS FILLED IN BLACK: "STATE OF ILLINOIS LIGHTING CONTROLS" UNLESS OTHERWISE SPECIFIED.
- 4. ONE INCH THICK POLYISOCYANURATE INSULATION SHALL BE INSTALL AND PERMANENTLY CEMENTED ON ALL SIDES OF THE CABINET AND DOORS.
- 5. CABINET SHALL BE PRIMED AND PAINTED AS SPECIFIED.
- 6. ELECTRIC UTILITY METER BOX SHALL BE MOUNTED ON THE SIDE OF CONTROL CABINET AS SHOWN ON THE PANEL LAYOUT DIAGRAM.
- 7. THE COMPLETED CONTROLLER SHALL BE U.L. LISTED AS AN INDUSTRIAL CONTROL PANEL UNDER UL508.
- 8. METAL MOUNTING PANEL SHALL BE #10 GAUGE GALVANIZED SHEET STEEL FLANGED BACK 0.75-INCHES I.D. ON 4 SIDES.
- 9. CIRCUIT BREAKERS AND CONTACTORS AND OTHER COMPONENTS SHALL BE MOUNTED ON 3.175 (0.125-INCH) THICK GLASTIC INSULATION BACK PANEL.
- 10. ALL DEVICES SHALL BE FRONT REMOVABLE.
- 11. TIME CLOCK CHANNEL 1 N.O. CONTACT IS CLOSED NIGHT AND OPEN DAY (LIGHTS ON).
- 12. SET LATITUDE TO 42 DEGREES. SET "ON TIME" TO 30 MINUTES AFTER ASTRONOMICAL SUNSET, 30 MINUTES BEFORE ASTRONOMICAL SUNRISE. SET "OFF TIME" TO 60 MINUTES AFTER ASTRONOMICAL SUNSET (WITH A SIGNAL LENGTH OF 1 SECOND), +24 MINUTES AFTER ASTRONOMICAL SUNRISE (WITH A SIGNAL LENGTH OF 7 SECONDS.)
- 13. BUS BAR SHALL HAVE 22 LUG TERMINALS SIZED TO ACCOMMODATE REQUIRED WIRE SIZES. 240V NEUTRAL BUS SHALL BE PAINTED WHITE. GROUND BUS SHALL BE PAINTED GREEN. 120V NEUTRAL BUS SHALL BE PAINTED GREY.
- 14. ALL LUGS SHALL BE OF COPPER SCREWS AND CONNECTORS, SPRING HELD.
- 15. ALL WIRING TERMINATIONS SHALL BE RATED NOT LESS THAN 75 DEGREE CENTIGRADE
- 16. ALL CONTROL WIRING SHALL BE 600V #12 TYPE MTW.
- 17. ALL POWER WIRING SHALL BE 600V TYPE RHH/RHW.
- 18. ALL WIRING WITHIN THE CABINET SHALL BE COLOR CODED AS INDICATED:

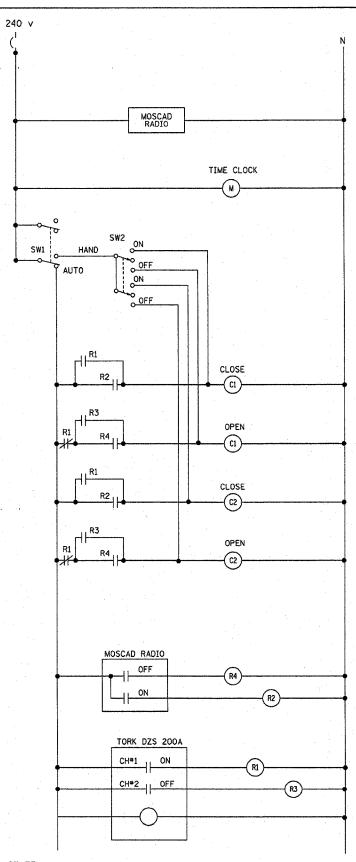
19. MOSCAD I/O WIRING SHALL BE:

DIGITAL INPUT (DI) WIRING SHALL BE #16 MTW PURPLE

ANALOG INPUT (AI) WIRING SHALL BE #18, 2/C SHIELDED.

AI AND DI WIRING MAY BE BUNDLED TOGETHER, BUT SHALL NOT BE BUNDLED WITH OTHER WIRING.

- 20. ALL DIMENSIONS ARE IN MILLIMETERS (INCHES) UNLESS OTHERWISE INDICATED.
- 21. SCHEMATIC SHOWN WITH BREAKER OPEN, CONTACTOR OPEN, CABINET DOOR CLOSED, CLOCK NOT ACTIVE (DE-ENERGIZED STATE).
- 22. A LAMINATED COPY OF THE CIRCUIT SCHEMATIC AND SCADA I/O DIAGRAM SHALL BE ATTACHED TO THE INSIDE OF THE CONTROLLER.



CONTROL CIRCUIT LADDER LOGIC DIAGRAM

90/44	2003-0	31 I	COUL	٤	SHEETS	396
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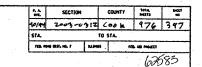
ILLINOIS DEPARTMENT OF TRANSPORTATION LIGHTING CONTROLLER, RADIO CONTROL DUPLEX TYPE WITH SCADA BE-205 SHT 4 OF 4 SCALE: VERT. NONE

DRAWN BY CADD CHECKED BY

REVISION DATE: 04/22/02

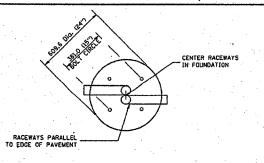
BE205

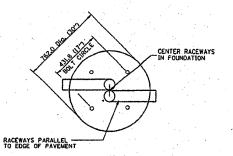
08/08/2003 v:\diststd\be205.dar



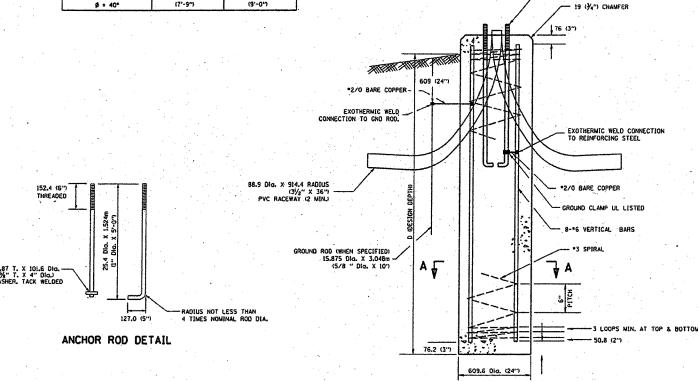
#### LIGHT POLE FOUNDATION DEPTH TABLE 12.192M (40 FT.) TO 14.478M (47.5 FT.) MOUNTING HEIGHT

	DESIGN DEPTH "D" OF FOUNDATION			
SOIL CONDITIONS	SINGLE ARM POLE	TWIN ARM POLE		
SOFT CLAY	3.96M	4.57M		
Ou = 0.375 TON/SO. FT.	(13'-0")	(15'-0'')		
MEDIUM CLAY	2.09M	(10a)		
Ou = 0.75 TON/SO.FT	(9'-6'')	3'53M		
STIFF CLAY	2.13M	2.44M		
Qu = 1.50 TON/SQ. FT.	(7*-0*1	(8'-0")		
LOOSE SAND	2.74N	3.05M		
Ø = 34°	(9'-0'')	(10'-0")		
MEDIUM SAND	2.52M	2.74M		
# = 37.5°	(8'-3")	(9'~0'')		
DENSE SAND	2.36M (7'-9")	2.74M (9'-0'')		

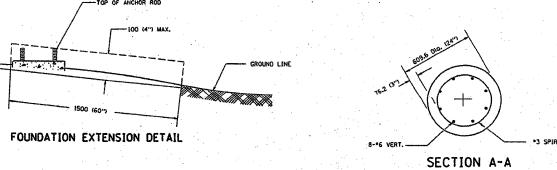








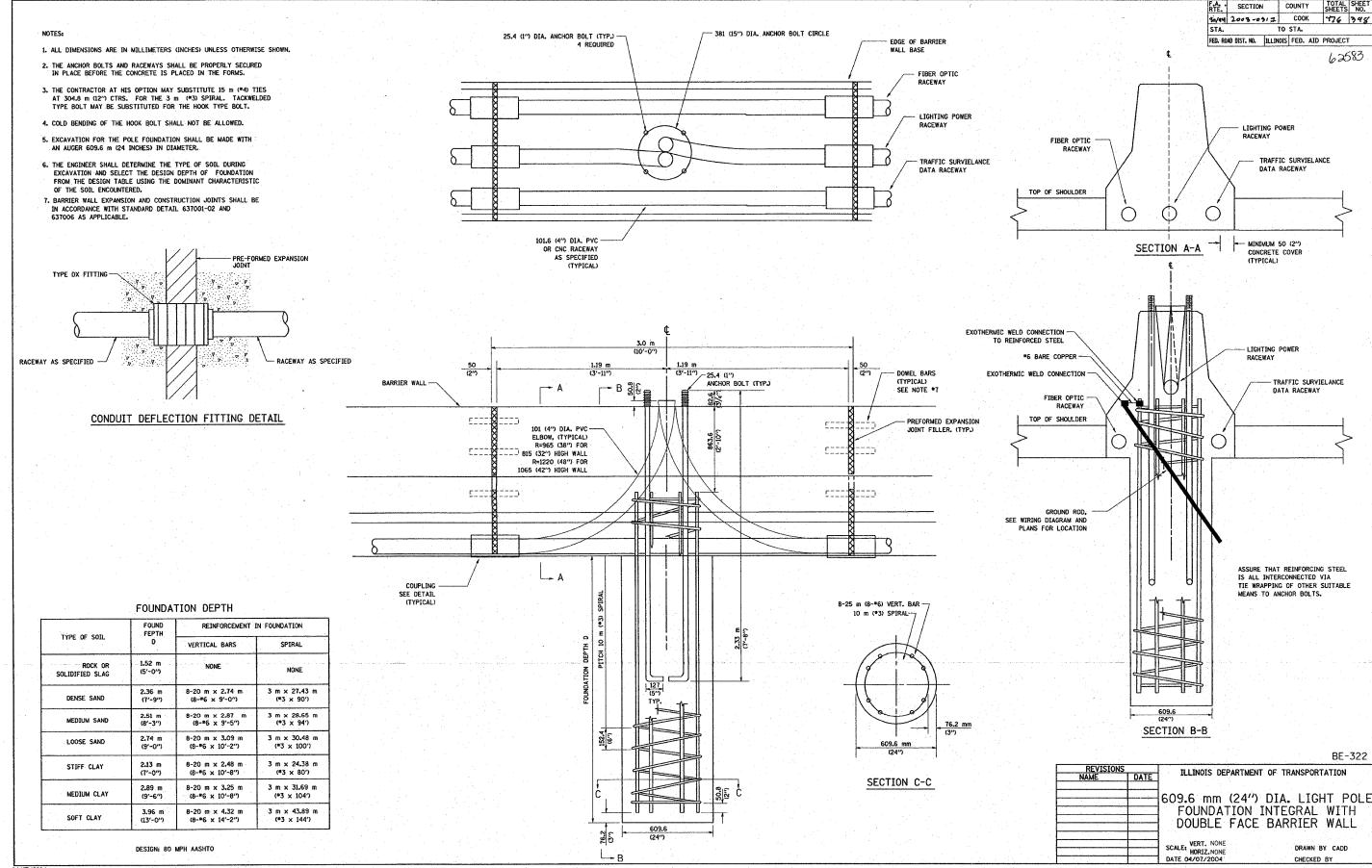
FOUNDATION DETAIL

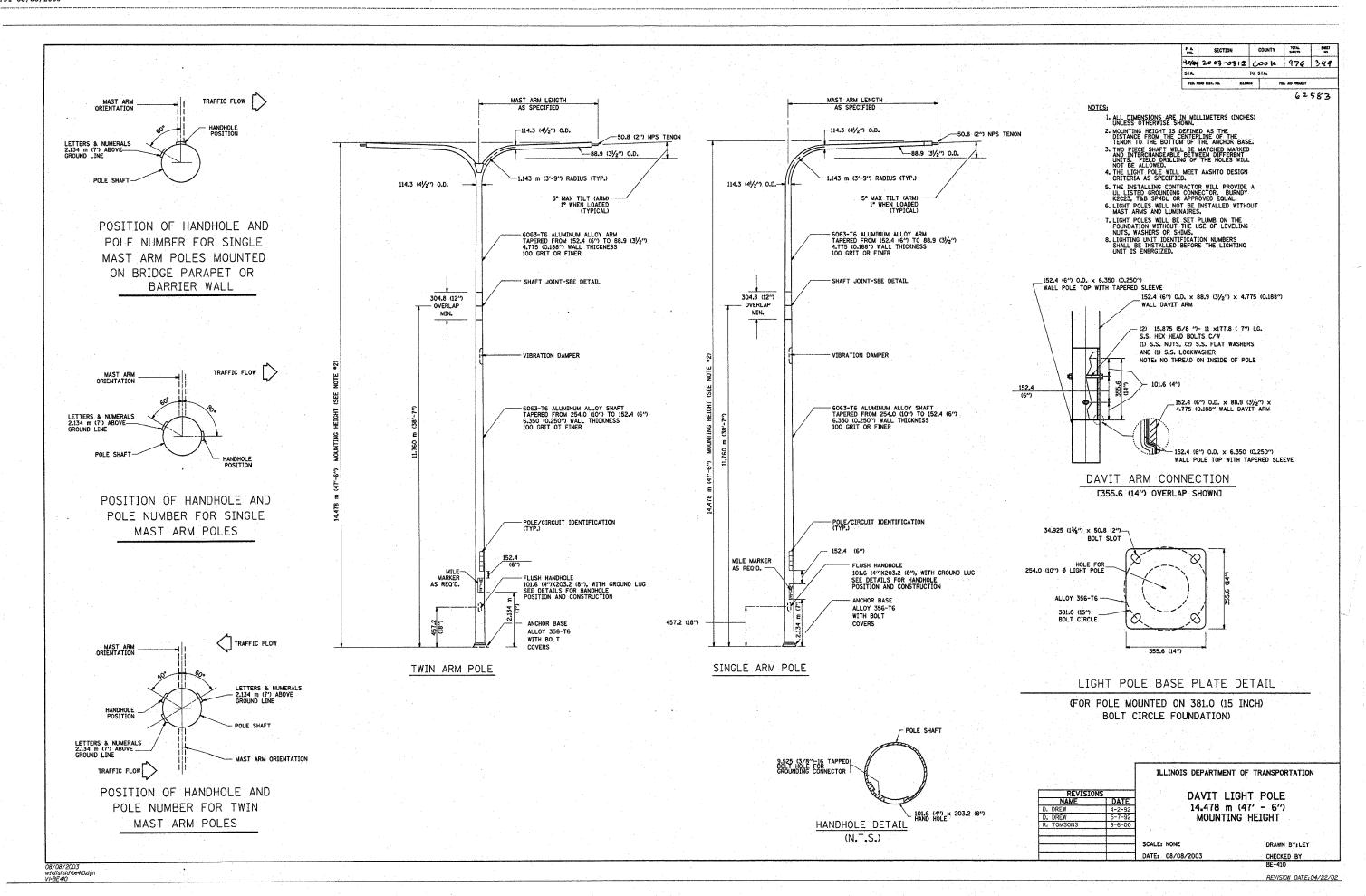


8-6" VERT. SECTION A-A NOTES

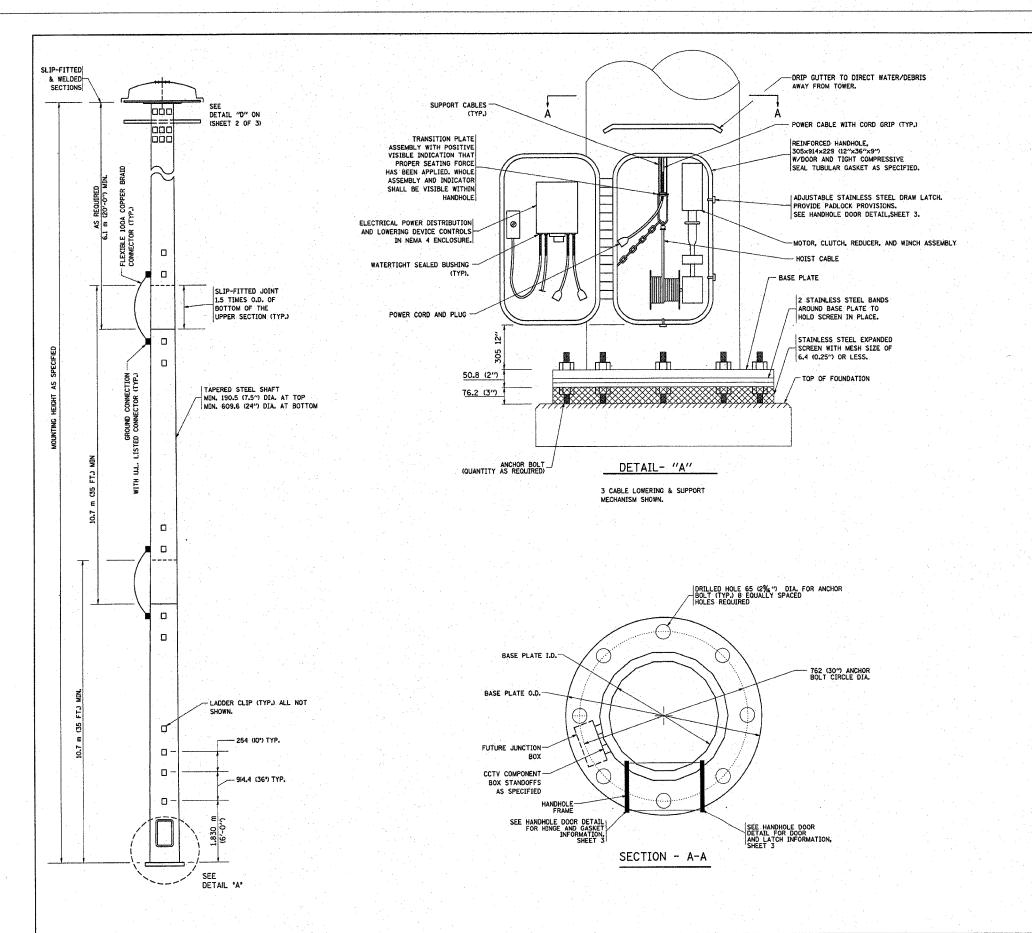
- 1. ALL DIMENSIONS ARE IN MILLINETERS (INCHES) UNLESS OTHERWISE SHOWN.
- THE ANCHOR RODS AND RACEWAYS SHALL BE PROPERLY SECURED IN PLACE BEFORE THE CONCRETE IN PLACED.
- THE FOUNDATION SHALL NOT PROTRUDE MORE THAN LOOMM (4 IN.) ABOVE THE FINISHED GRADE WITHIN A L.5M (60 IN.) CHORD ACROSS THE FOUNDATION, WITH ANCHOR RODS INCLUDED, IN ACCORDANCE WITH AASHTO GUIDELINES. IF THE FOUNDATION HEIGHT, INCLUDING ANCHOR RODS, EXTRUDE SEVOND THESE SPECIFIED LIMITS, THE FOUNDATION SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE. SEE FOUNDATION EXTENSION DETAIL.
- THE HOLE FOR THE FOUNDATION SHALL BE MADE BY DRILLING WITH AN AUGER, OF THE SAME DIAMETER AS THE FOUNDATION. IF SOIL CONDITIONS REQUIRE THE USE OF A LINER TO FORM THE HOLE, THE LINER SHALL BE WITHDRAWN AS THE CONCRETE IS DEPOSITED.
- THE TOP OF THE FOUNDATION SHALL BE CONSTRUCTED LEVEL. A LINER OR FORM SHALL BE USED TO PRODUCE A UNIFORM SMOOTH SIDE TO THE TOP OF THE FOUNDATION, FOUNDATION TOP SHALL BE CHAMFERED ZOMM (3/4-IN.).
- THE CONCRETE SHALL BE CLASS SI. CONCRETE SHALL CURE ACCORDING TO ARTICLE 1020.13 BEFORE LIGHT POLES ARE INSTALLED.
- THE ANCHOR ROD SHALL BE A HOOK ROD TYPE. COLD BENDING OF THE ANCHOR ROD WILL NOT BE ALLOWED. THE RADIUS OF THE HOOK BEND SHALL NOT BE LESS THAN 4 TIMES THE NOMINAL DIAMETER OF THE ANCHOR ROD. A TACK WELDED ANCHOR ROD MAY BE SUBSTITUTED WITH THE APPROVAL OF THE ENSINEER.
- THE ANCHOR RODS SHALL BE ACCORDING TO ASTM F1554 GRADE 725 (GRADE 105). NUTS SHALL BE HEXAGON NUTS ACCORDING TO ASTM A 194 2H OR ASTM A 563 DH, AND WASHERS SHALL BE ACCORDING TO ASTM F 436.
- 9. ANCHOR RODS, NUTS. AND WASHERS SHALL BE COMPLETELY CALVANIZED BY EITHER THE HOT-DIPPED PROCESS COMPORMING WITH AASHTO M 232, THE MECHANICAL PLATING METHOD CONFORMING TO ASSHTO M 298, CLASS 50 WITH A MAXIMUM COATING THICKNESS OF 150 UMMG MILS) OR THE ELECTROLYTIC PROCESS ACCORDING TO ASTM F 1136.
- IO. THE ANCHOR RODS SHALL BE THREADED A MINIMUM OF 150 MM (6 INCHES) WITH A MINIMUM OF 75 MM (3 INCHES) OF THREADED ANCHOR ROD EMBEDDED IN THE FOUNDATION.
- II. ANCHOR RODS SHALL PROJECT 69.9MM (234") ABOVE THE TOP OF THE FOUNDATION. IF BREAKAWAY COUPLINGS ARE SPECIFIED, THE CONTRACTOR SHALL CAREFULLY COORDINATE THE ANCHOR ROD PROJECTION WITH THE INSTALLATION REQUIREMENTS OF THE BREAKAWAY COUPLINGS.
- 12. THE CONTRACTOR SHALL USE A *3 SPIRAL AT 152.4MM (6") PITCH OR MAY SUBSTITUTE *3 TIES AT 304.8MM (12") O.C. WITH THE APPROVAL OF THE ENGINEER.
- THE CABLE TRENCHES AND FOUNDATION SHALL BE BACK FILLED AND COMPACTED AS SPECIFIED BEFORE THE LIGHT POLE IS ERECTED.
- 14. THE RACEWAYS SHALL PROJECT 25.4MM (I") ABOVE THE TOP OF THE FOUNDATION.

E-301 ILLINOIS DEPARTMENT OF TRANSPORTATION LIGHT POLE FOUNDATION 12.192M (40') TO 14.478M (471/2') M.H. 381 (15") BOLT CIRCLE DATE 03/19/2003





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F.A. SECTION COUNTY TOTAL SHEET NO. 40/44 20 03 -05:I Cook 976 400 STA. TO STA. FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT

#### NOTES:

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

- THE DESIGN SHALL BE BASED UPON AASHTO "STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES AND TRAFFIC SIGNALS" CURRENT AT THE TIME THE PROJECT IS ADVERTISED AND A TOTAL COMBINED LUMINAIRE WEIGHT OF 326 KG (720 LBS.) AND HAVING A TOTAL PROJECTED AREA OF 7.3 SO M (24 SQ. FT.).
- 3. ALL TOWER SHAFT COMPONENTS. INCLUDING, BUT NOT LIMITED TO THE SHAFT SECTIONS, BASE PLATE, LADDER CLIPS, HANDHOLE DOOR, HANDHOLE REINFORCING, RAIN GUTTER, AND BASE PLATE, SHALL BE FABRICATED FROM HIGH-STRENGTH, LOW ALLOY, STEEL WITH A MINIMUM YIELD STRENGTH OF 345 K PA (SO,OOD PS) ACCORDING TO AASHTO M 223 (ASTM A 572 GRSO)
- 4. THE ELECTRIC MOTOR, MOTOR GEAR REDUCER, WINCH DRUM ASSEMBLY AND AUTOMATIC SHUTOFF SWITCH OF THE LOWERING DEVICE SHALL BE ACCESSIBLE FROM THE FRONT OF THE TOWER FOR EASY REMOVAL AND MAINTENANCE. ALL COMPONENTS SHALL BE REMOVABLE THROUGH THE HANDHOLE.
- 5. THE LIGHT TOWER SHAFT SHALL HAVE LADDER CLIPS. CLIPS SHALL BEGIN 1.8 M (6 FT.) ABOVE THE BASE PLATE WITH ALTERNATE 900 (36 INCH) AND 250 (10 INCH) SPACING THEREAFTER, FOR THE ENTIRE LENGTH. THE TOP 3 M (10 FT.) OF THE POLE SHAFT SHALL HAVE 3 SETS OF CLIPS. EACH SET OF CLIPS SHALL BE 120 DEGREES APART. CLIPS SHALL BE 6 X 50 (0.25 X 2 INCHES) WELDED TO THE SHAFT TO PRODUCE A SLOT 15.9 (0.625 INCHES) DEEP AND 41.3 (1.625 INCHES) LONG. THE TOP INSIDE EDGE SHALL BE CHAMFERED.
- 6. A COPPER BONDING JUMPER SHALL BOND SLIP-FIT POLE SECTIONS TOGETHER WITH A FLAT COPPER MESH AND STAINLESS STEEL GROUND LUGS.
- 7. ALL TOWER SHAFT HARDWARE, SUCH AS GROUND LUGS, JUNCTION BOXES, HARDWARE FOR THE HANDHOLE DOOR, INCLUDING THE HANDLE/LATCH MECHANISM, HINGE AND DOOR STOP, SHALL BE STAINLESS STEEL. ALL CONDUIT AND CONDUIT FITTINGS SHALL BE PVC COATED GALVANIZED STEEL.
- 8. THE ENTIRE TOWER INCLUDING THE SHAFT, HANDHOLE, HANDHOLE DOOR, BASE PLATE AND ALL OTHER ELEMENTS WELDED TO THE SHAFT SHALL BE GALVANIZED IN ACCORDANCE WITH AASHTO M 111 (ASTM A 123) AND THEN PAINTED AS SPECIFIED. THE LUMINAIRE RING SHALL BE PRIMED AND PAINTED AS SPECIFIED.
- THE FINISH COAT SHALL BE FEDERAL STANDARD COLOR NUMBER 16307 (HANFORD GREY). COLOR SAMPLE TO BE SUBMITTED FOR APPROVAL
- 10. ALL MULTI-CONDUCTOR CABLES SHALL BE FITTED WITH A HEAT-SHRINK MULTI-LEG BOOT. THE BOOT SHALL MEET MILITARY SPECIFICATION MILI-TB.1765/1.
- 11. PRIOR TO DELIVERY, THE TOWER AND ALL ITS COMPONENTS SHALL BE INSPECTED BY THE MANUFACTURER'S REPRESENTATIVE IN THE PRESENCE OF THE ENGINEER. ANY PARTS FOUND TO BE DEFECTIVE SHALL BE REPAIRED OR
- 12. THE LIGHT TOWER SHALL BE STRAIGHT AND CENTERED ON ITS LONGITUDINAL AXIS, UNDER NO-WIND CONDITIONS, SO WHEN EXAMINED WITH A TRANSIT FROM ANY DIRECTION, THE DEVIATION FROM THE NORMAL SHALL NOT EXCEED 2 MM IN 1 M 1/8 IN. IN 3 FT) WITHIN ANY 1.5 M (5 FT) OF HEIGHT, WITH TOTAL DEVIATION NOT TO EXCEED 75 (3 IN.) FROM THE VERTICAL AXIS THROUGH THE CENTER OF THE POLE BASE.
- 13. PVC CONDUIT WILL NOT BE ALLOWED.
- 14. THE NUMBER OF COUNTER WEIGHTS TO BE SUPPLIED AS A PART OF THE LIGHT TOWER PAY ITEM IS

REVISIONS
NAME DATE
HIGH MAST LIGHT TOWER
27m TO 36m (90FT TO 120FT)
SHEET 1 OF 3

SCALE; VERT. NONE DRAWN BY DATE
DATE
CHECKED BY

REVISION DATE: 08/04/03