

F.A.P. NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	00-00074-00-LT	COOK	12	1
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

PLANS FOR PROPOSED
FEDERAL AID HIGHWAY

INDEX OF SHEETS

- 1. COVER SHEET
- 2. SUMMARY OF QUANTITIES
- 3-6. PLAN SHEETS
- 7. SINGLE LINE DIAGRAM
- 8-12. CONSTRUCTION DETAILS

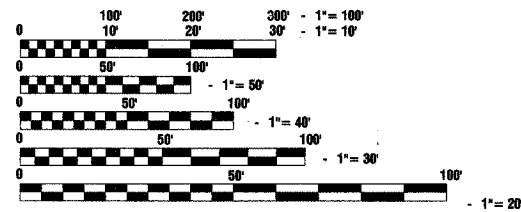
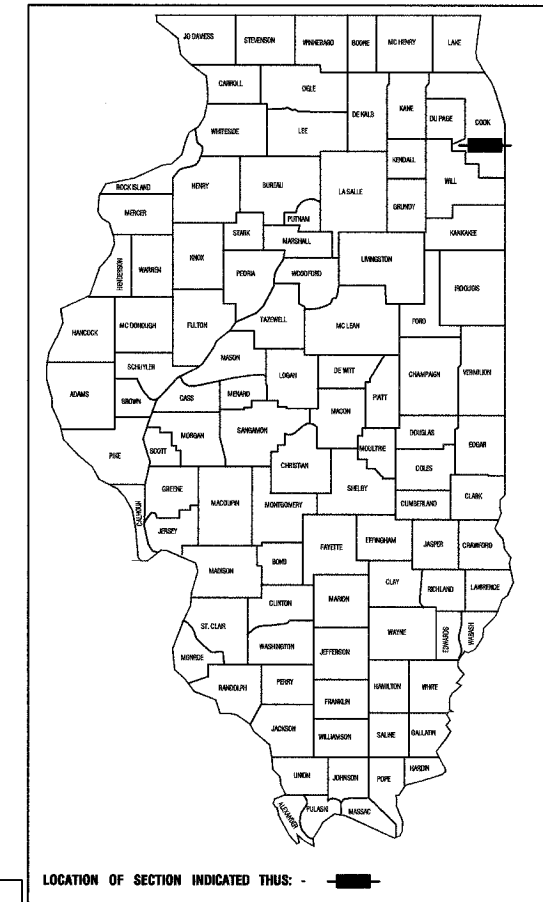
STATE STANDARDS

- 000001-04 Standard Symbols, Abbreviations and Patterns
- 701501-03 Lane Closure, 2L 2W, Day Or Night Operations, For Speeds < 45 MPH
- 701606-04 Lane Closure, Multilane, 2W, With Mountable Median, For Speeds < 45 MPH
- 701701-04 Lane Closure, Multilane, Intersection, For Speeds < 45 MPH
- 701801-03 Lane Closure, Multilane, 1W Or 2W, Crosswalk or Sidewalk Closure, For Speeds < 45 MPH
- 702001-05 TRAFFIC CONTROL DEVICES

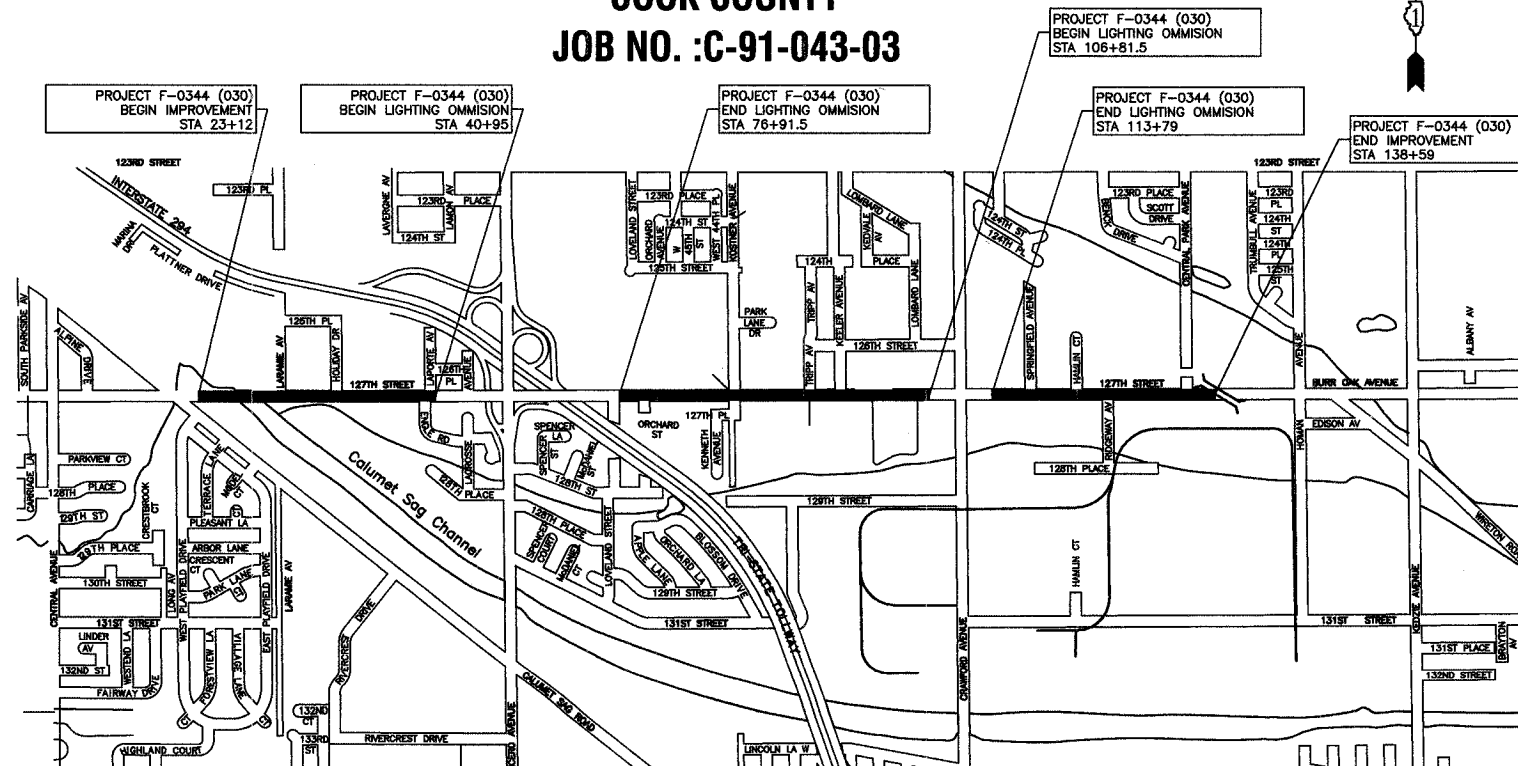
SCALES PLAN - 1"=50'
CONSTRUCTION DETAILS - 1"=1'

F.A.P. ROUTE 344 (127TH STREET)
IL ROUTE 83 TO HOMAN AVENUE
STREET LIGHTING
PROJECT NO.: F-0344 (030)
M.F.T. SECTION NO.: 00-00074-00-LT
STATE SECTION NO.: 3034 L
VILLAGE OF ALSIP
COOK COUNTY
JOB NO.: C-91-043-03

LOCATED IN THE CITY OF:
ALSIP, ILLINOIS



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

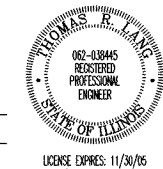


LOCATION MAP SECTIONS 26-29, 32-35, TOWNSHIP 37, RANGE 13

GROSS LENGTH=13,679 FEET=2.59 MILES
NET LENGTH=8,482 FEET=1.61 MILES

PREPARED BY OR UNDER THE DIRECT SUPERVISION OF:

Thomas R. Lang
11/8/05



STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

APPROVED 11/8 2005
George E. Kitchin LOCAL AGENCY OFFICIAL

PASSED November 9 2005
[Signature] BUREAU CHIEF OF LOCAL ROADS & STREETS

PASSED Nov. 10 2005
Diane M. O'Keefe DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

CONTRACT 83769

847-705-4189

I.D.O.T. FEDERAL AID COORDINATOR: PHIL MARCYN

JOINT UTILITY LOCATING INFORMATION FOR EXCAVATORS
48 hours before you dig (EXCLUDING SAT., SUN. & HOL.)
Call

SUMMARY OF QUANTITIES				CONSTRUCTION TYPE CODE											
S.I.	CODE NO.	PAY ITEM	UNIT	QUAN	Y030-1E										
					PAVEMENT	MARKINGS	SIGNS	LANDSCAPE	LIGHTS	SIGNALS	TRAINING				
					1000	SFTY-1D	Y002-1C	Y003	Y030-1E	Y031	Y080				
	21101615	TOPSOIL FURNISH AND PLACE, 4 INCH	SQ YD	5900											
	21300010	EXPLORATION TRENCH, SPECIAL	FOOT	1500											
	25200110	SODDING, SALT TOLERANT (SPECIAL)	SQ YD	5900											
	42400200	PORTLAND CEMENT CONCRETE SIDEWALK, 5 INCH	SQ FT	50											
	44000600	SIDEWALK REMOVAL	SQ FT	50											
	67100100	MOBILIZATION	L SUM	1											
	70102620	TRAFFIC CONTROL AND PROTECTION, STANDARD 701501	L SUM	1											
	70102625	TRAFFIC CONTROL AND PROTECTION, STANDARD 701606	L SUM	1											
	70102635	TRAFFIC CONTROL AND PROTECTION, STANDARD 701701	L SUM	1											
	70102640	TRAFFIC CONTROL AND PROTECTION, STANDARD 701801	L SUM	1											
	80400100	ELECTRIC SERVICE INSTALLATION	EACH	3											
	80400200	ELECTRIC UTILITY SERVICE CONNECTION	L SUM	1											
	80700140	GROUND ROD, 5/8" DIA. X 10 FT.	EACH	66											
	81000600	CONDUIT IN TRENCH, 2" DIA., GALVANIZED STEEL	FOOT	95											
	81018700	CONDUIT PUSHED, 3" DIA., GALVANIZED STEEL	FOOT	1625											
	81018900	CONDUIT PUSHED, 4" DIA., GALVANIZED STEEL	FOOT	601											
	81100600	CONDUIT ATTACHED TO STRUCTURE, 2" DIA., GALVANIZED STEEL	FOOT	1100											
	81300530	JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 12" X 10" X 6"	EACH	12											
	81300730	JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 16" X 14" X 6"	EACH	4											
	81500200	TRENCH AND BACKFILL FOR ELECTRICAL WORK	FOOT	12900											
	X8160350	UNIT DUCT, WITH 3-1/C NO. 6 AND 1/C NO. 8 GROUND, 600V (EPR-TYPE RHW), 1 1/4" DIA., POLYETHYLENE	FOOT	11285											
	X8160370	UNIT DUCT, WITH 3-1/C NO. 4 AND 1/C NO. 6 GROUND, 600V (EPR-TYPE RHW), 1 1/4" DIA., POLYETHYLENE	FOOT	4160											
	81700315	ELECTRIC CABLE IN CONDUIT, 600V (EPR-TYPE RHW) 3-1/C NO. 10	FOOT	400											
	81700375	ELECTRIC CABLE IN CONDUIT, 600V (EPR-TYPE RHW) 3-1/C NO. 4 & 1/C NO. 6 GROUND	FOOT	1200											
	81700355	ELECTRIC CABLE IN CONDUIT, 600V (EPR-TYPE RHW) 3-1/C NO. 2	FOOT	90											
	82102250	LUMINAIRE, SODIUM VAPOR, HORIZONTAL MOUNT, 250 WATT	EACH	62											
	82102400	LUMINAIRE, SODIUM VAPOR, HORIZONTAL MOUNT, 400 WATT	EACH	1											
	82107200	UNDERPASS LUMINAIRE, 100 WATT, HIGH PRESSURE SODIUM VAPOR	EACH	12											
	82500520	LIGHTING CONTROLLER TYPE CB-RCS 60AMP - 480VOLT	EACH	2											
	83008300	LIGHT POLE, ALUMINUM, 40 FT. M.H., 8 FT. MAST ARM	EACH	50											
	83050760	LIGHT POLE, ALUMINUM, 47.5 FT. M.H., 8 FT. MAST ARM	EACH	13											
	83600200	LIGHT POLE FOUNDATION, 24" DIAMETER	FOOT	337											
	83600215	LIGHT POLE FOUNDATION, 24" DIAMETER, OFFSET	FOOT	324											
	83800205	BREAKAWAY DEVICE, TRANSFORMER BASE, 15 INCH BOLT CIRCLE	EACH	63											
	X0322881	TREE TRIMMING	EACH	3											
	X0323574	MAINTENANCE OF LIGHTING SYSTEM	CAL MO	12											

F.P. NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	00-00074-00-LT	COOK	12	2
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

ROBINSON ENGINEERING, LTD.
CONSULTING REGISTERED PROFESSIONAL ENGINEERS
AND PROFESSIONAL LAND SURVEYORS
17000 SOUTH PARK AVENUE SOUTH HOLLAND, ILLINOIS 60478
(708) 331-6700 © COPYRIGHT 2003 ILLINOIS DESIGN FIRM REGISTRATION NO. 164001128 FAX (708) 331-9626

REVISIONS		
No.	Date	Remarks
1	05/24/05	PAP
2	08/05/05	PAP
3	11/01/05	PAP

127TH STREET
STREET LIGHTING
SUMMARY OF QUANTITIES

ALSIP, ILLINOIS

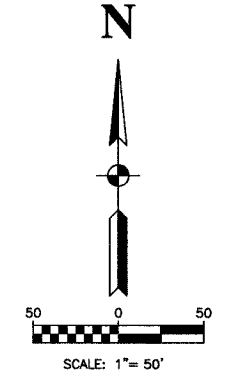
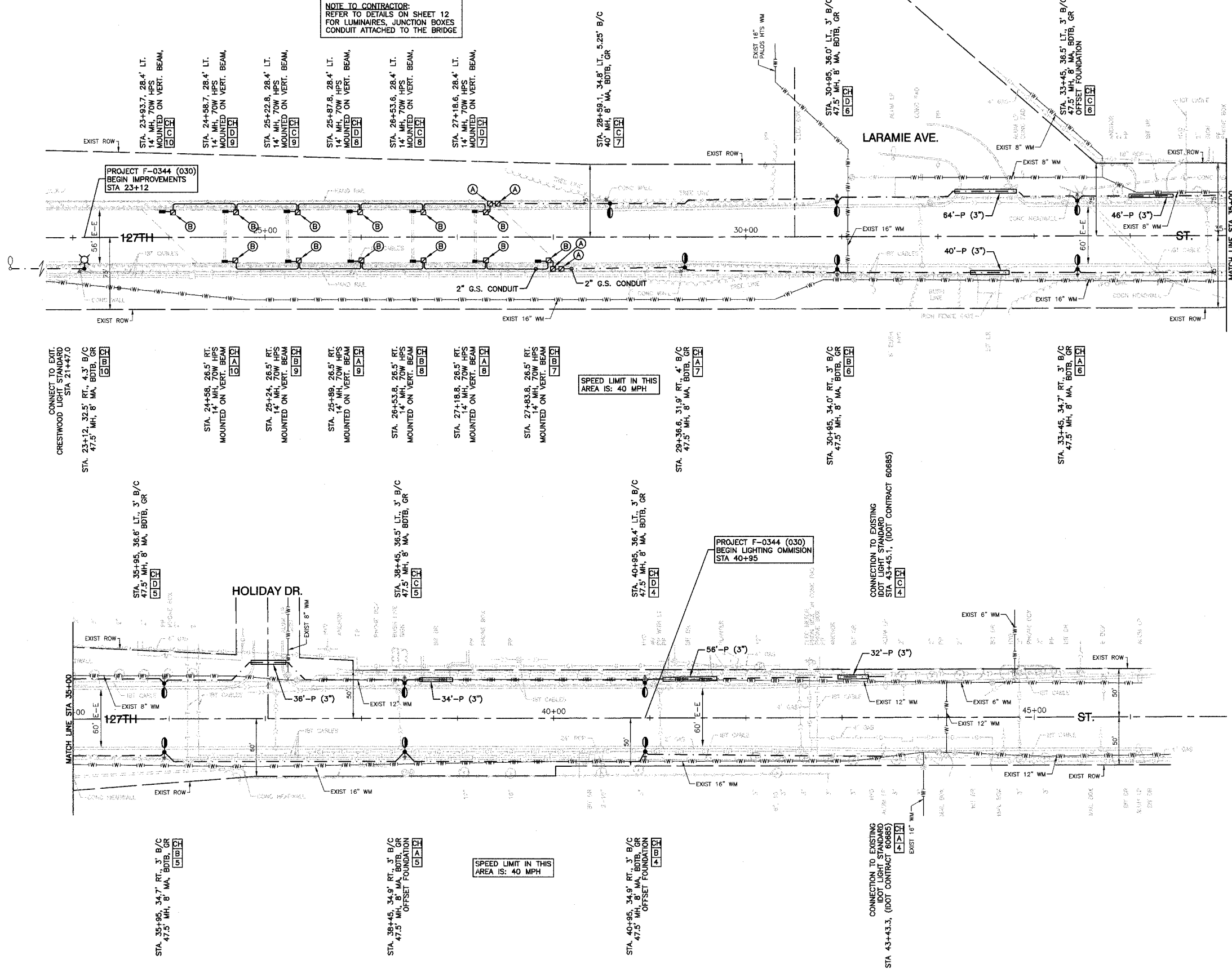
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Checked by: RYIII Scale: NONE
Sheet of Project No. 99-562.02

* - INDICATES SPECIALTY ITEMS

SECTION 28, TOWNSHIP 37, RANGE 13
SECTION 33, TOWNSHIP 37, RANGE 13

F.A.P. REL.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	00-00074-00-LT	COOK	12	3
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

NOTE TO CONTRACTOR:
REFER TO DETAILS ON SHEET 12 FOR LUMINAIRES, JUNCTION BOXES CONDUIT ATTACHED TO THE BRIDGE



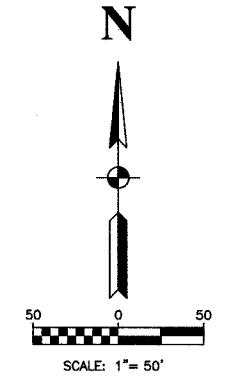
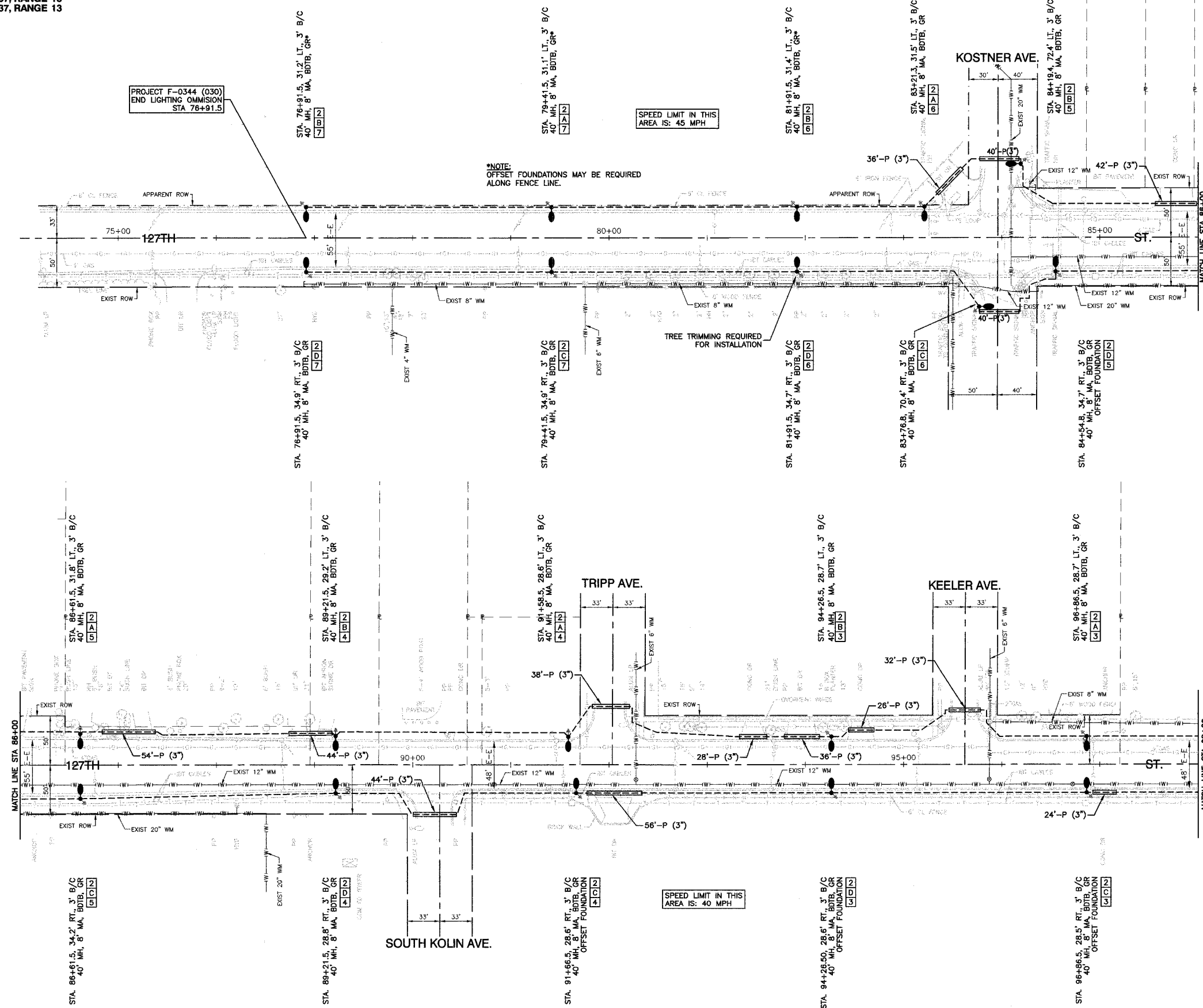
LEGEND

- ⊕ EXISTING COM ED LIGHT ON WOOD POLE
- ⊙ EXISTING POWER POLE
- EXISTING STREET LIGHT
- PROPOSED LIGHT STANDARD, 250W HPS, 240V, 1PH LUMINAIRE, 47.5' MH, 8' MA
- PROPOSED LIGHT STANDARD, 250W HPS, 240V, 1PH LUMINAIRE, 40' MH, 8' MA
- PROPOSED LIGHT STANDARD, 400W HPS, 240V, 1PH LUMINAIRE, 47.5' MH, 8' MA
- PROPOSED 100 WATT HPS UNDERPASS LIGHT, 240V, 1PH
- PROPOSED LIGHTING CONTROLLER
- ⊠ or ⊡ PROPOSED JUNCTION BOX - LARGE (16"x 14"x 6")
- ⊠ or ⊡ PROPOSED JUNCTION BOX - MEDIUM (10"x 12"x 6")
- ⊕ GROUND ROD, 5/8" DIA. x 10'
- P — CONDUIT, PUSHED, GALVANIZED STEEL, SIZE AS MARKED
- T — CONDUIT, TRENCHED, GALVANIZED STEEL, SIZE AS MARKED
- UNIT DUCT, 3-1/2" NO.6 AWG AND NO.8 GROUND, 600V IN 1-1/4" POLYETHYLENE DUCT FOR ROADWAY LIGHTING.
- UNIT DUCT, 3-1/2" NO.4 AWG AND NO.6 GROUND, 600V IN 1-1/4" POLYETHYLENE DUCT FOR ROADWAY LIGHTING.
- GALVANIZED STEEL CONDUIT, ATTACHED TO STRUCTURE, SIZE AS MARKED
- SERVICE WIRE, 3-1/2" NO.2
- (R) REMOVAL OF EXISTING STREET LIGHT
- LT. LEFT
- RT. RIGHT
- MH MOUNTING HEIGHT
- MA MAST ARM
- B/C BACK OF CURB
- B/EP BACK OF EDGE OF PAVEMENT
- BDTB BREAKAWAY DEVICE, TRANSFORMER BASE, LOW PROFILE TYPE
- GR GROUND ROD, 5/8" DIA. x 10'

<p>ROBINSON ENGINEERING, LTD. CONSULTING REGISTERED PROFESSIONAL ENGINEERS AND PROFESSIONAL LAND SURVEYORS 17000 SOUTH PARK AVENUE SOUTH HOLLAND, ILLINOIS 60473 (708) 381-8700 FAX (708) 381-3828</p> <p>© COPYRIGHT 2003</p> <p>127TH STREET STREET LIGHTING PLAN CAL SAG CHANNEL TO B.&O.C.T. RR STA. 23+00 TO STA. 45+00</p> <p>ALSIP, ILLINOIS</p>		<p>REVISIONS</p> <table border="1"> <thead> <tr> <th>No.</th> <th>Date</th> <th>Remarks</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>05/24/05</td> <td>PAP</td> </tr> <tr> <td>2</td> <td>08/05/05</td> <td>PAP</td> </tr> <tr> <td>3</td> <td>11/01/05</td> <td>PAP</td> </tr> <tr> <td>4</td> <td>11/28/05</td> <td>BEO</td> </tr> </tbody> </table>	No.	Date	Remarks	1	05/24/05	PAP	2	08/05/05	PAP	3	11/01/05	PAP	4	11/28/05	BEO
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4	11/28/05	BEO															
<p>Drawn by: AG/EDG Date: 02/07/05</p> <p>Checked by: RY/III Scale: 1"=50'</p> <p>Sheet of Project No. 99-562.02</p>																	

SECTION 27, TOWNSHIP 37, RANGE 13
SECTION 34, TOWNSHIP 37, RANGE 13

F.P. NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	00-00074-00-LT	COOK	12	4
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



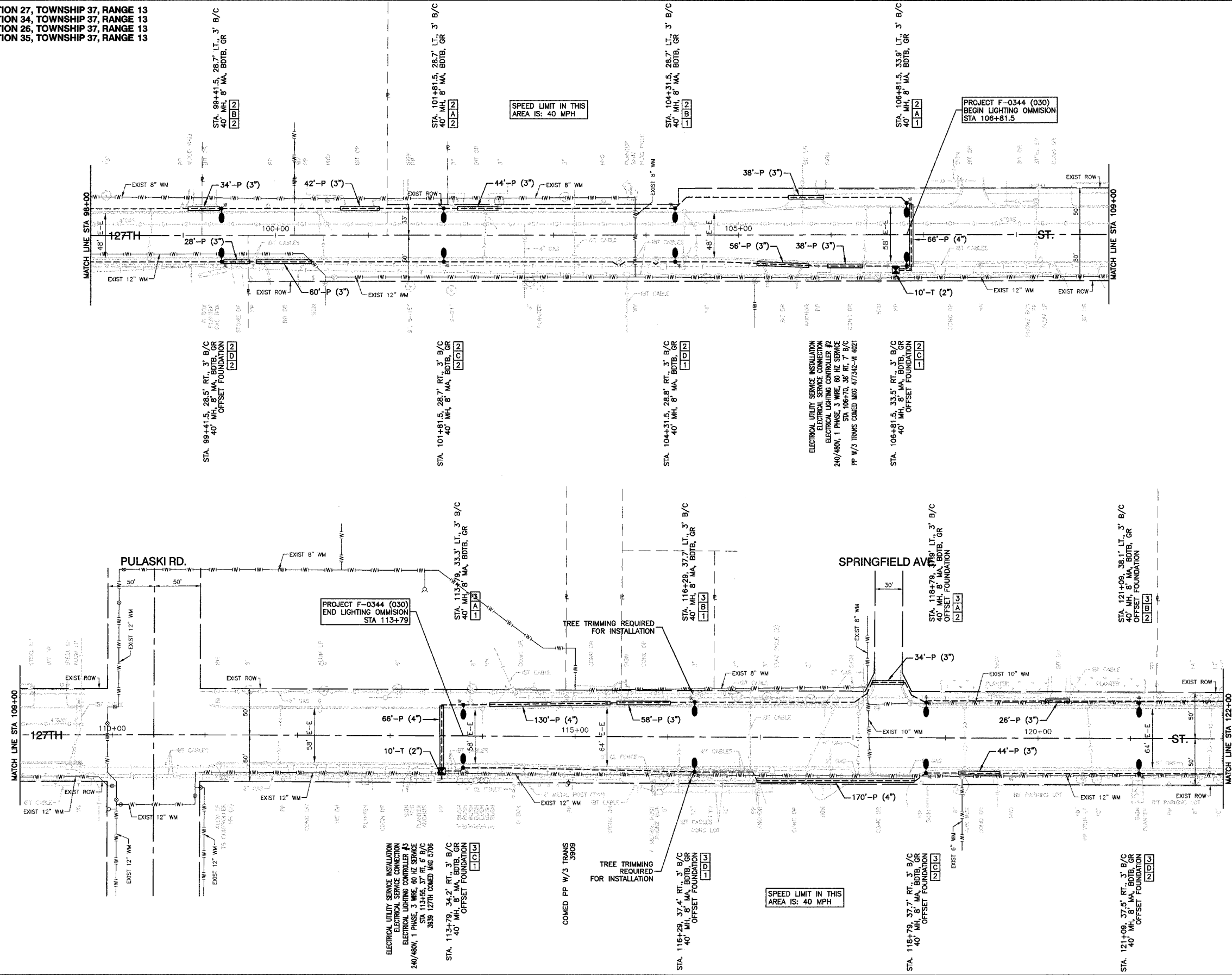
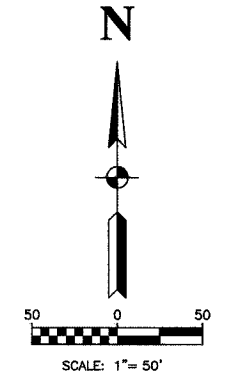
LEGEND

- ⊕ EXISTING COM ED LIGHT ON WOOD POLE
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- U — UNIT DUCT, 3-1/2" NO.4 AWG AND NO.6 GROUND, 600V IN 1-1/4" POLYETHYLENE DUCT FOR ROADWAY LIGHTING.
- G — GALVANIZED STEEL CONDUIT, ATTACHED TO STRUCTURE, SIZE AS MARKED
- S — SERVICE WIRE, 3-1/2" NO.2
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- B/C BACK OF CURB
- B/PE BACK OF EDGE OF PAVEMENT
- BDTB BREAKAWAY DEVICE, TRANSFORMER BASE, LOW PROFILE TYPE
- GR GROUND ROD, 5/8" DIA. x 10'

ROBINSON ENGINEERING, LTD. CONSULTING REGISTERED PROFESSIONAL ENGINEERS AND PROFESSIONAL LAND SURVEYORS 17000 SOUTH PARK AVENUE SOUTH HOLLAND, ILLINOIS 60473 (708) 331-6700 FAX (708) 331-3828 © COPYRIGHT 2003		REVISIONS <table border="1"> <thead> <tr> <th>No.</th> <th>Date</th> <th>Remarks</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>05/24/05</td> <td>PAP</td> </tr> <tr> <td>2</td> <td>08/05/05</td> <td>PAP</td> </tr> <tr> <td>3</td> <td>11/01/05</td> <td>PAP</td> </tr> </tbody> </table>	No.	Date	Remarks	1	05/24/05	PAP	2	08/05/05	PAP	3	11/01/05	PAP
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127TH STREET STREET LIGHTING PLAN CAL SAG CHANNEL TO B.&O.C.T. RR STA. 75+00 TO STA. 98+00														
ALSIP, ILLINOIS														
Drawn by: AG/EDG Checked by: RY/III Sheet of	Date: 02/07/05 Scale: 1"=50' Project No. 99-582.02													

SECTION 27, TOWNSHIP 37, RANGE 13
 SECTION 34, TOWNSHIP 37, RANGE 13
 SECTION 26, TOWNSHIP 37, RANGE 13
 SECTION 35, TOWNSHIP 37, RANGE 13

F.A.P. NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	00-00074-00-LT	COOK	12	5
STA. TO STA.				
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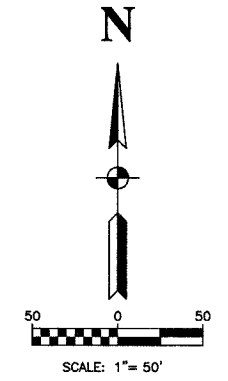
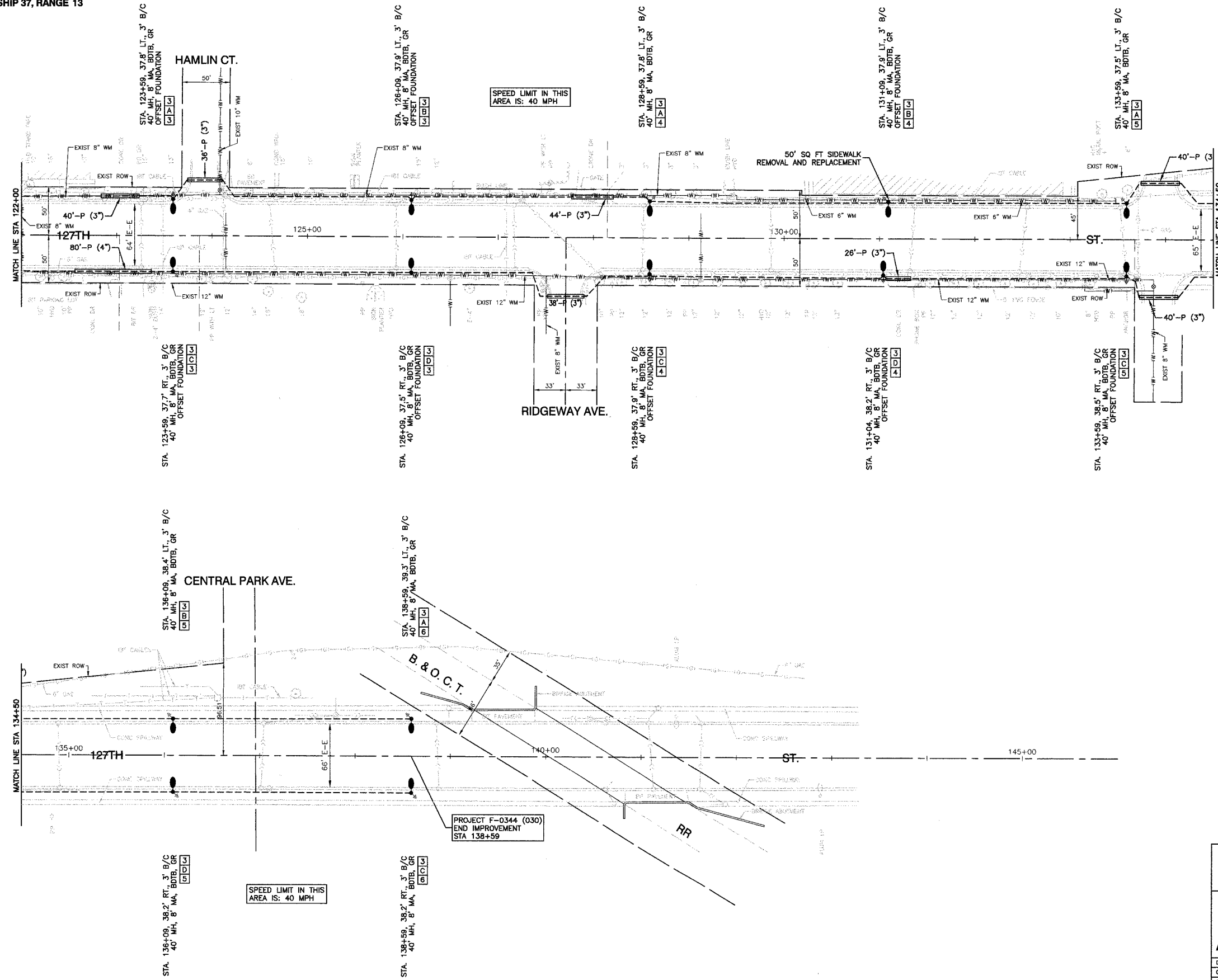
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- ⊕ EXISTING COM ED LIGHT ON WOOD POLE
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- PROPOSED LIGHT STANDARD, 250W HPS, 240V, 1PH LUMINAIRE, 47.5' MH, 8' MA
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- UNIT DUCT, 3-1/4" NO.6 AWG AND NO.8 GROUND, 600V IN 1-1/4" POLYETHYLENE DUCT FOR ROADWAY LIGHTING.
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- GALVANIZED STEEL CONDUIT, ATTACHED TO STRUCTURE, SIZE AS MARKED
- SERVICE WIRE, 3-1/4" NO.2
- (R) REMOVAL OF EXISTING STREET LIGHT
- LT. LEFT
- RT. RIGHT
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- B/C BACK OF CURB
- B/EP BACK OF EDGE OF PAVEMENT
- BDTB BREAKAWAY DEVICE, TRANSFORMER BASE, LOW PROFILE TYPE
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<p>127TH STREET STREET LIGHTING PLAN CAL SAG CHANNEL TO B.&O.C.T. RR STA. 98+00 TO STA. 122+00</p>															
<p>ALSIP, ILLINOIS</p>		<p>Drawn by: AG/EDG Date: 02/07/05 Checked by: RYIII Scale: 1"=50' Sheet of Project No. 99-562.02</p>													

SECTION 26, TOWNSHIP 37, RANGE 13
SECTION 35, TOWNSHIP 37, RANGE 13

F.P. NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	00-00074-00-LT	COOK	12	6
STA. FROM DIST. NO.		ISLANDS		FED. AID PROJECT



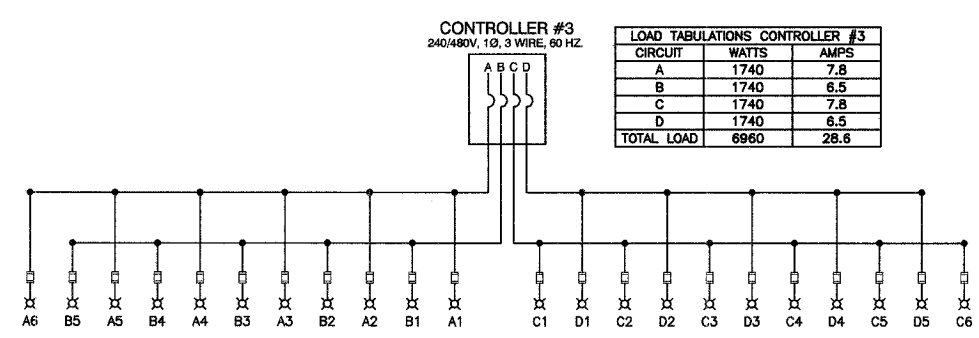
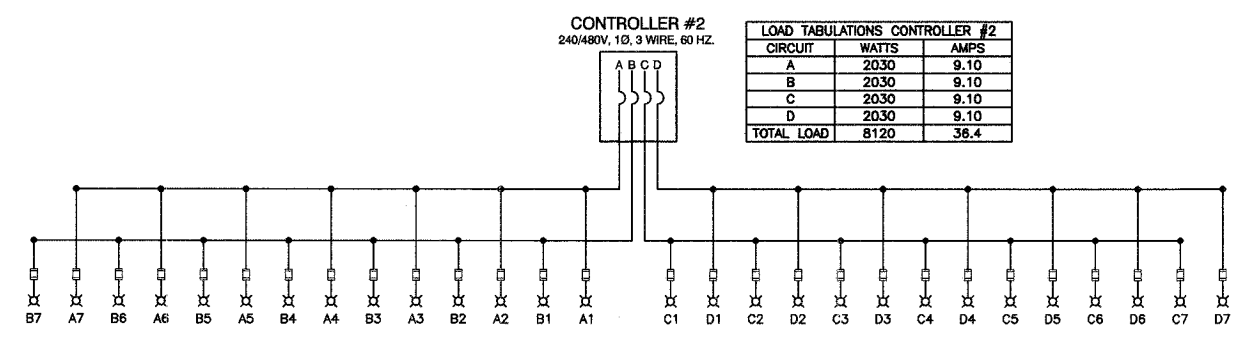
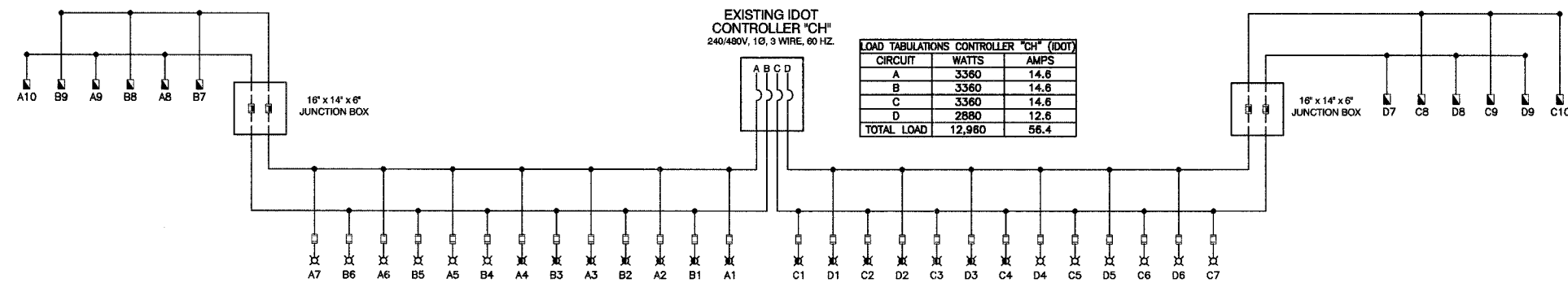
LEGEND

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- EXISTING STREET LIGHT
- PROPOSED LIGHT STANDARD, 250W HPS, 240V, 1PH LUMINAIRE, 47.5' MH, 8' MA
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- GROUND ROD, 5/8" DIA. x 10'
- CONDUIT, PUSHED, GALVANIZED STEEL, SIZE AS MARKED
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- GALVANIZED STEEL CONDUIT, ATTACHED TO STRUCTURE, SIZE AS MARKED
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- BDTB BREAKAWAY DEVICE, TRANSFORMER BASE, LOW PROFILE TYPE
- GR GROUND ROD, 5/8" DIA. x 10'

PROJECT F-0344 (030)
END IMPROVEMENT
STA 138+59

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No.	Date	Remarks													
1	05/24/05	PAP													
2	08/05/05	PAP													
3	11/01/05	PAP													
127TH STREET STREET LIGHTING PLAN CAL SAG CHANNEL TO B.&O.C.T. RR STA. 122+00 TO END IMPROVEMENT															
Drawn by: AG/EDG Checked by: RYIII Sheet of		Date: 02/07/05 Scale: 1"=50' Project No. 99-582.02													
ALSIP, ILLINOIS															

F.P. RILEY	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	00-00074-00-LT	COOK	12	7
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



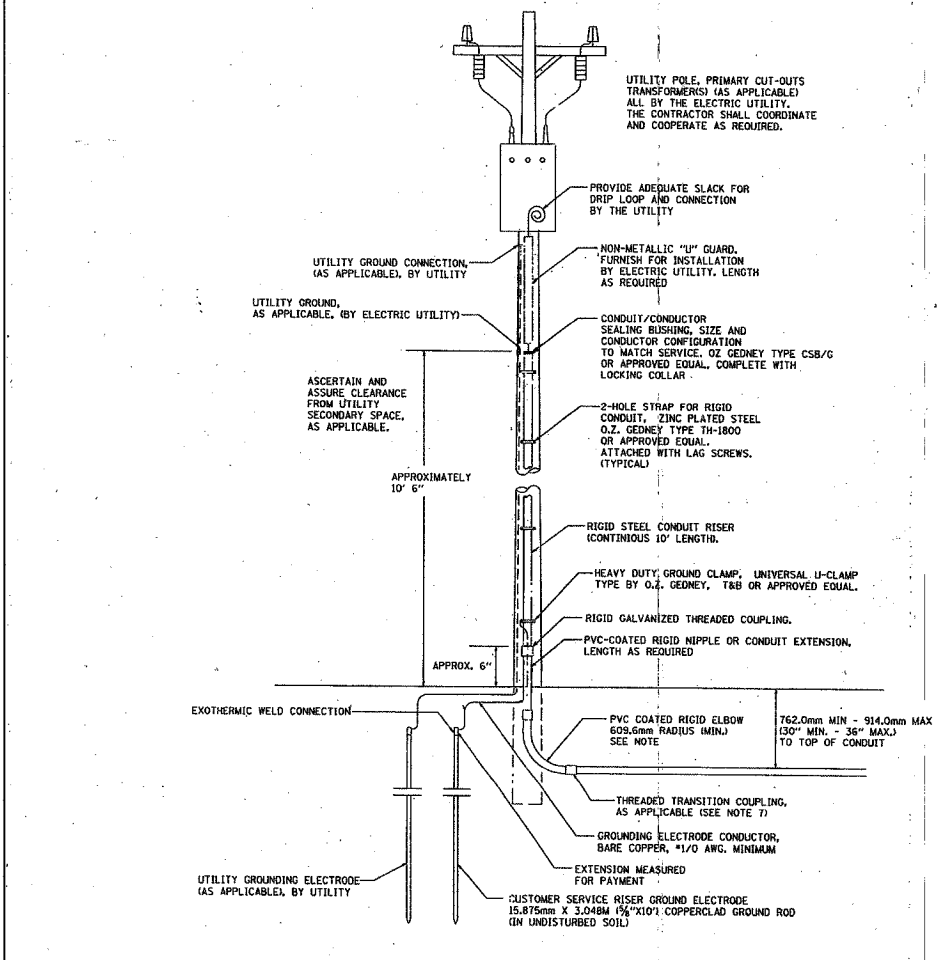
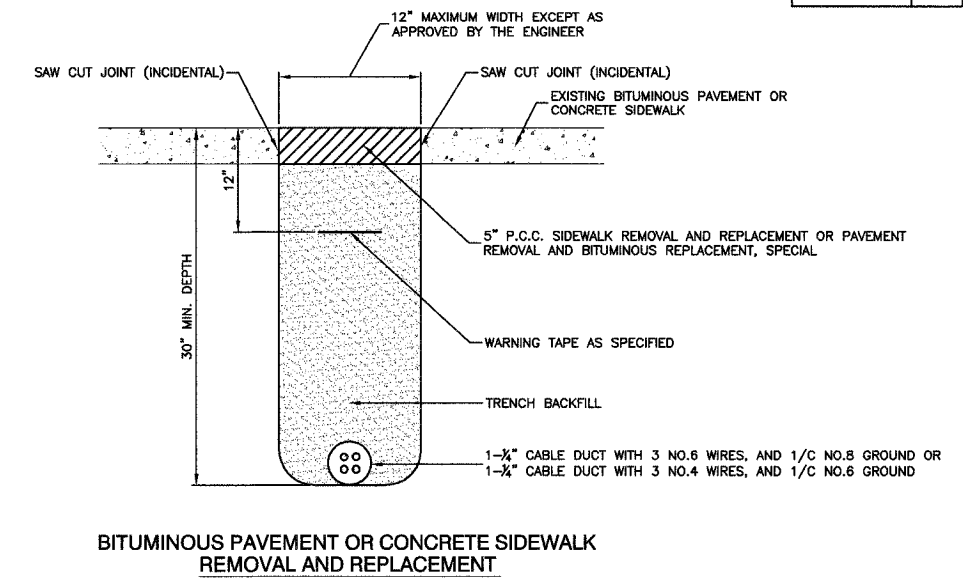
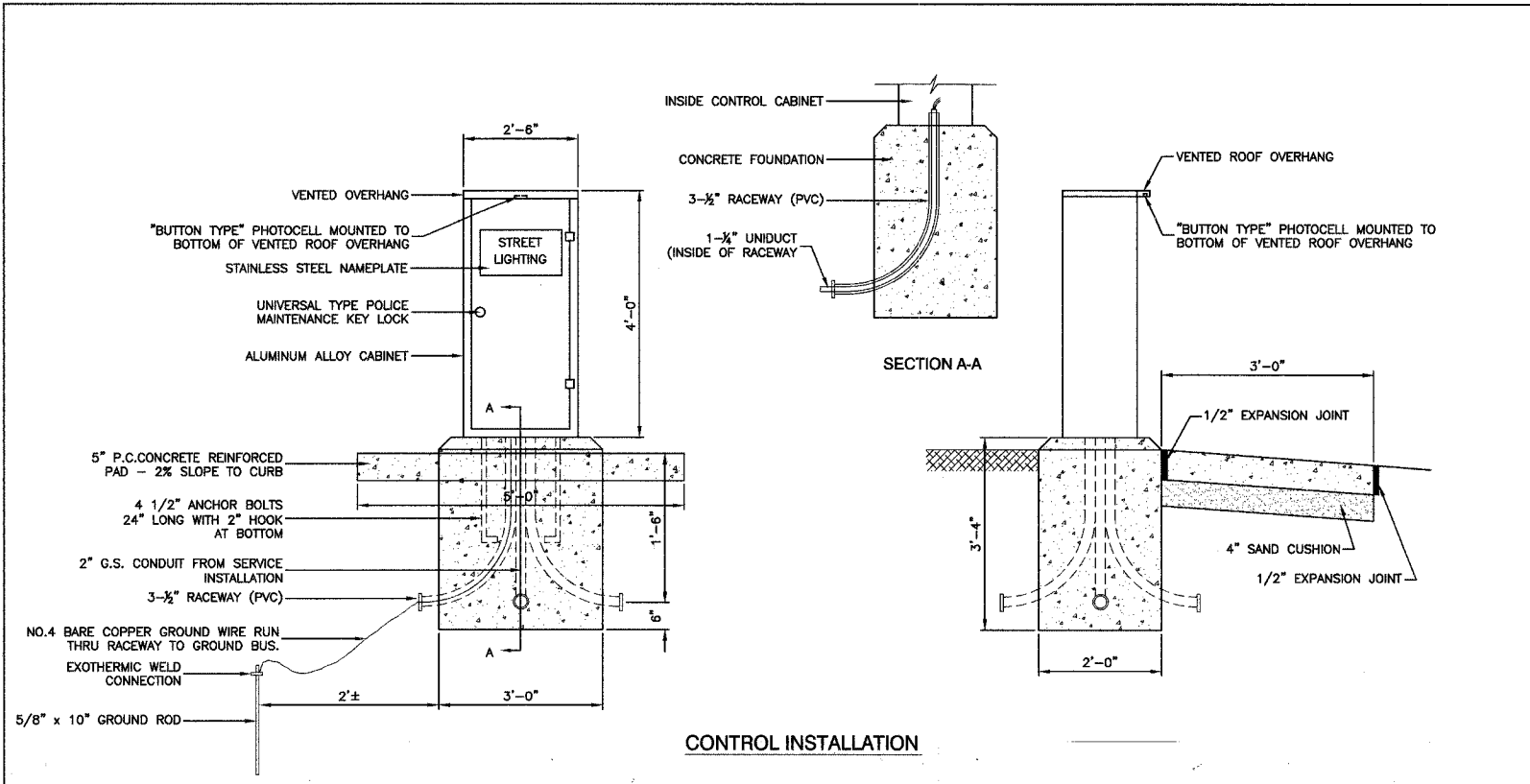
NOTE: SINGLE LINE WIRING DIAGRAM FOR IDOT CONTROLLER "CH" SHOWS CIRCUITS A,B,C & D, WHICH ARE THE FOUR CIRCUITS THAT ARE AFFECTED BY THE CONTRACT.

SINGLE LINE LEGEND

- ⊗ LUMINAIRE, 250W HPS, STREET LIGHT
- ⊗ LUMINAIRE, 400W HPS, STREET LIGHT
- ⊗ LUMINAIRE, 100W HPS, UNDERPASS LIGHT
- FUSE, 3.5 AMP
- FUSE, 6.0 AMP
- FUSE, 25 AMP, IN-LINE
- ⌋ CIRCUIT BREAKER
- CONNECTION

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127TH STREET STREET LIGHTING SINGLE LINE WIRING DIAGRAM		No.	Date
		1	05/24/05
		2	08/05/05
ALSIP, ILLINOIS		3	11/01/05
Drawn by: AG/EDG Checked by: RYIII Sheet: of	Date: 02/07/05 Scale: NONE Project No: 99-562.02		

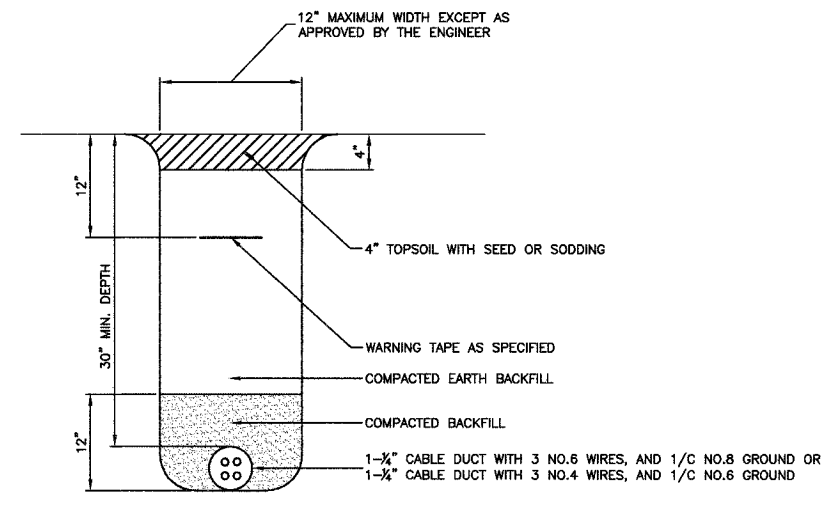
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344	00-00074-0-LT	COOK	12	8
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



240/480 VOLT, 1Ø, 3 WIRE, 60 HZ. SERVICE
 17.47 KVA LOAD FOR CONTROLLER NO 2.
 13.73 KVA LOAD FOR CONTROLLER NO

- NOTES**
- SERVICE VOLTAGE SHALL BE AS INDICATED ELSEWHERE IN THE DRAWINGS.
 - UNLESS OTHERWISE INDICATED, ITEMS AND WORK SHALL BE INCLUDED AND PAID AS PART OF ELECTRICAL UTILITY SERVICE INSTALLATION.
 - CONDUIT AND CONNECTOR DIAMETER SHALL MATCH THE DIAMETER OF THE SERVICE CONDUCTOR RACEWAY AS INDICATED.
 - PVC COATED RACEWAYS AND ACCESSORIES SHALL BE CAREFULLY INSTALLED WITH MFR RECOMMENDED TOOLS AND PROCEDURES TO AVOID DAMAGE. ANY DAMAGE SHALL BE REPAIRED WITH COMPATIBLE PVC TOUCH-UP MATERIAL TO THE SATISFACTION OF THE ENGINEER OR THE DAMAGED MATERIAL SHALL BE REPLACED AT NO ADDITIONAL COST.
 - THE CONTRACTOR SHALL OBTAIN INSPECTION AND APPROVAL BY THE ENGINEER OF SERVICE RISER GROUND ELECTRODE, RISER ELBOW, NIPPLE AND CONNECTION TO SERVICE CONDUCTOR RACEWAY EXTENSION BEFORE BACKFILL AND SHALL ALSO OBTAIN INSPECTION OF SERVICE RISER AND SEALING BUSHING BEFORE UTILITY "U" GUARD INSTALLATION AND SERVICE CONNECTION.
 - THE SERVICE METER SOCKET, AS APPLICABLE, MOUNTED ELSEWHERE AS INDICATED SHALL BE INCLUDED AND PAID AS PART OF THE ELECTRICAL UTILITY SERVICE INSTALLATION PAY ITEM.
 - THE SERVICE CONDUCTOR RACEWAY SHALL BE AS INDICATED AND SHALL BE MEASURED SEPARATELY FOR PAYMENT. WHEN THE RACEWAY IS PVC-COATED RIGID GALVANIZED STEEL, THE COUPLING SHALL BE THE SAME. WHEN THE RACEWAY IS PVC CONDUIT (IN CONCRETE), THE COUPLING SHALL BE A METALIC TO NON METALIC ADAPTER, WHEN THE RACEWAY IS ENCASED IN CONCRETE, THE CONCRETE SHALL EXTEND TO COVER THE COUPLING.
 - PLANS AND DETAILS INDICATE THE GENERAL NATURE AND REQUIREMENTS. THEY DO NOT SHOW EVERY ACCESSORY AND ATTACHMENT, AND THEY DO NOT RELIEVE THE CONTRACTOR OF THE REQUIREMENTS OF THE SPECIFICATIONS AND SPECIAL PROVISIONS TO ASCERTAIN UTILITY REQUIREMENTS AND TO COORDINATE ACCORDINGLY, FURNISHING ALL ITEMS AND WORK NOT PROVIDED BY THE UTILITY, BUT NECESSARY FOR A COMPLETE SERVICE INSTALLATION.

SERVICE CONNECTION FOR ALL CONTROLLERS



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REVISIONS

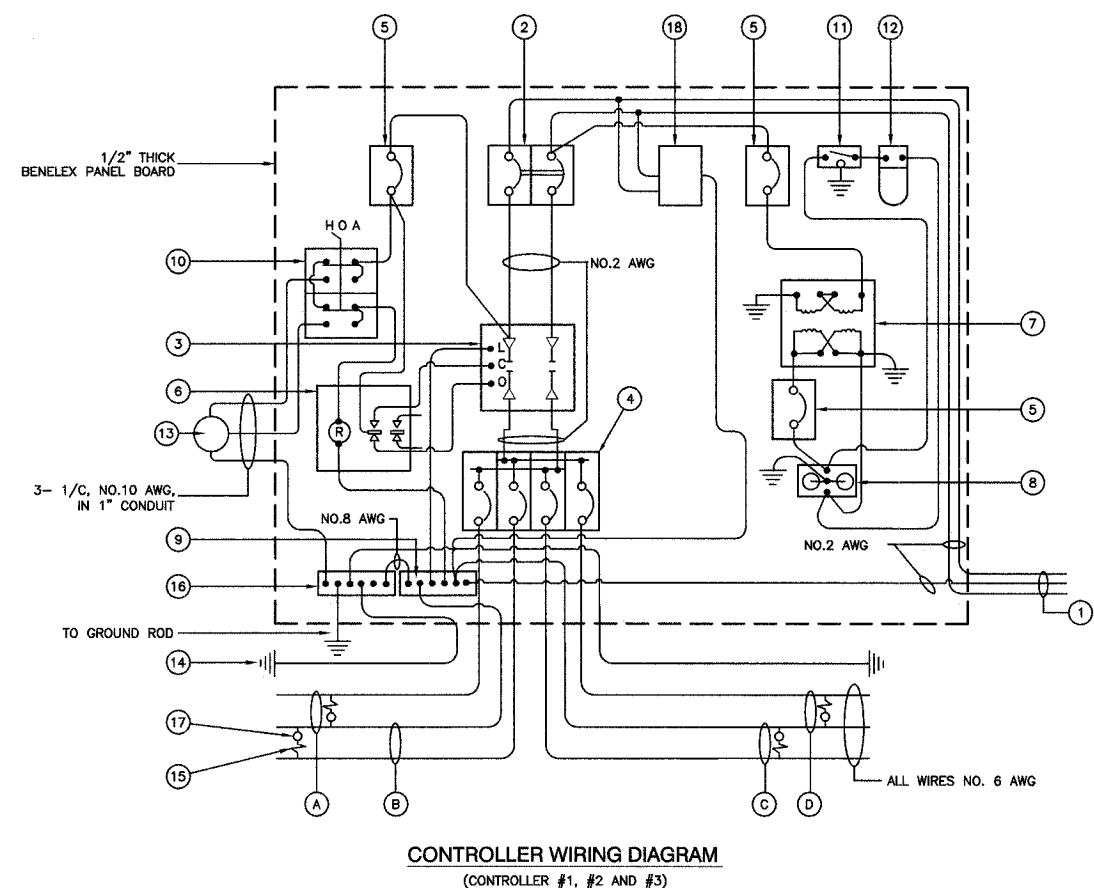
No.	Date	Remarks
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2	08/05/05	PAP
3	11/01/05	PAP

127TH STREET LIGHTING DETAILS

ALSIP, ILLINOIS

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 Checked by: RVIII Scale: NONE
 Sheet of Project No. 99-562.02

F.P. NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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STA.	TO STA.			
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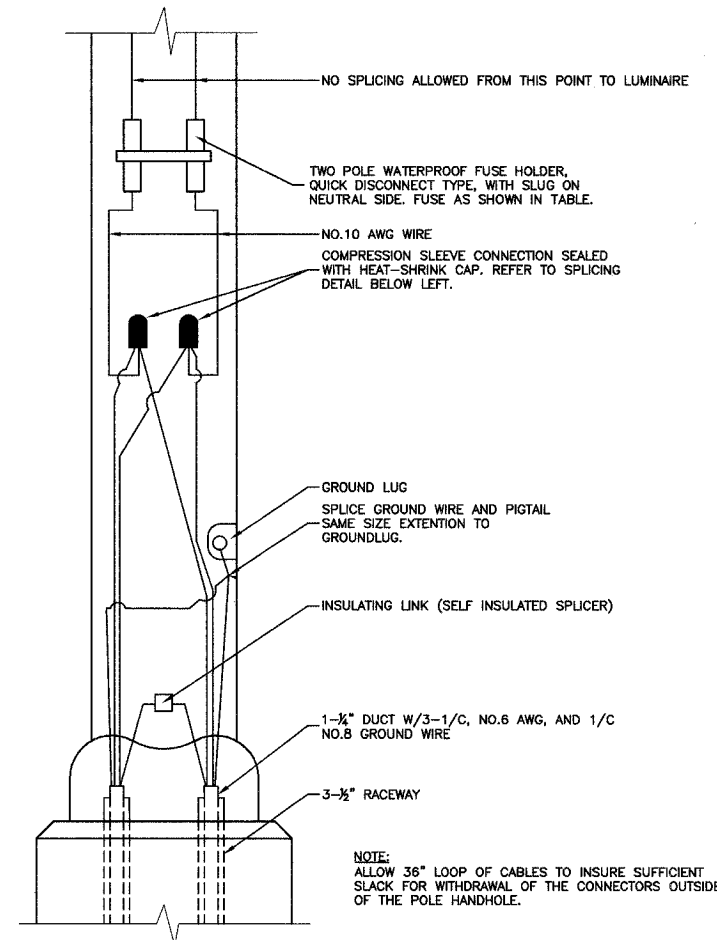


CONTROLLER WIRING DIAGRAM LEGEND

- ① 3-1/2, NO. 2, 600V SERVICE WIRE IN 2" DIA. GALVANIZED STEEL CONDUIT FOR 240/480 VOLT, 1Ø, 3 WIRE, 60HZ. SERVICE.
- ② (1) 60 AMP MAIN CIRCUIT BREAKER, 2 POLE, 600 VOLT, 100 AMP BASE, NON-INTERCHANGEABLE TRIP INTERRUPTING RATING NEMA - 14000 AMP AT 480 V.
- ③ (1) 60 AMP REMOTE CONTROL CONTACTOR SWITCH, ELECTRICALLY OPERATED, MECHANICALLY HELD, 2 POLE, SINGLE THROW, MINIMUM 60 AMP, 600 VOLT
- ④ (4) 30 AMP CIRCUIT BREAKER, 1 POLE, 240 VOLT, 100 AMP BASE, NON-INTERCHANGEABLE TRIP RATING NEMA - 14000 AMP AT 240 VOLTS.
- ⑤ (3) 20 AMP CONTROL CIRCUIT-CIRCUIT BREAKER, 1 POLE, 240 VOLT, 100 AMP BASE, NON-INTERCHANGEABLE TRIP INTERRUPTING RATING NEMA 14000 AMP AT 240 V.
- ⑥ (1) 20 AMP, 1 POLE DOUBLE THROW, 240 VOLT RELAY
- ⑦ (1) 1.5 KVA, SINGLE PHASE, ENCAPSULATED TRANSFORMER 240x480/120x240 VOLT, 60 HZ.
- ⑧ (1) 20 AMP, 120 VOLT DUPLEX GFCI RECEPTACLE.
- ⑨ NEUTRAL BUS BAR, 1/4"x1"x12" LONG MOUNTED ON PANEL WITH TAPS.
- ⑩ 3 POSITION SELECTOR SWITCH
- ⑪ SWITCH FOR LIGHTING FIXTURE MOUNTED IN BOX.
- ⑫ WEATHER-PROOF INCANDESCENT LIGHTING FIXTURE WITH 60 WATT, 120 V LAMP.
- ⑬ PHOTOCCELL MOUNTED TO BOTTOM OF VENTED CONTROL CABINET OVERHANG
- ⑭ NO.8 AWG INSULATED GROUND WIRE
- ⑮ IN-LINE FUSEHOLDER WITH FUSE AS NOTED IN FUSE TABLE
- ⑯ GROUND BUS BAR 1/4"x1"x12" LONG MOUNTED ON PANEL WITH TAPS.
- ⑰ LUMINAIRE, 250 HPS
- ⑱ SURGE SUPPRESSOR
- A PROPOSED CIRCUIT
- C PROPOSED CIRCUIT
- D PROPOSED CIRCUIT
- E PROPOSED CIRCUIT

NOMINAL WATTAGE	FUSE SIZE
250	3.5 AMP
400	6.0 AMP

LUMINAIRE FUSE SIZE TABLE

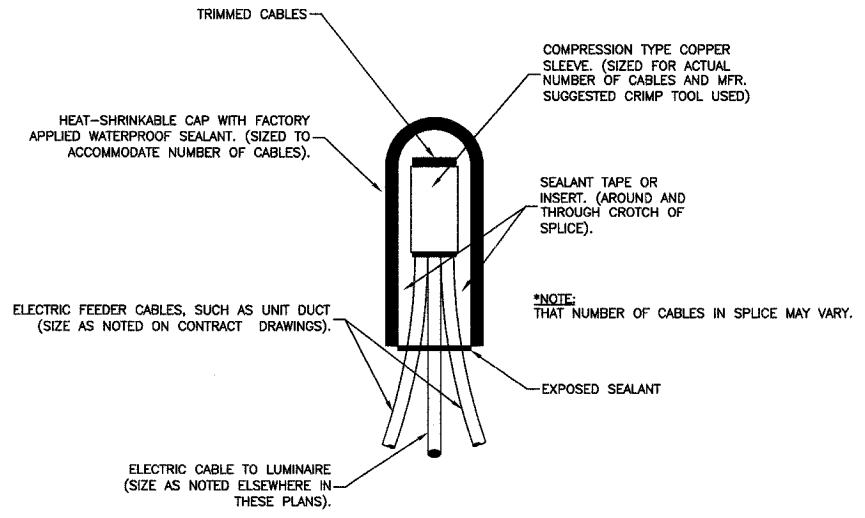


GENERAL NOTES FOR CONTROL CABINET

- ENTIRE CONTROL CABINET SHALL BE GROUNDED.
- ALL WIRING SHALL BE TAGGED WITH SELF-STICKING WIRE MARKERS.
- GROUND BUS TO BE COLOR CODED GREEN, NEUTRAL BUS WHITE, AND BONDED TO CABINET. ENCLOSURE, BY LISTED PRESSURE CONNECTORS OR LISTED CLAMPS.
- ALL INTERNAL CONTROLLER WIRING TO BE NO.12 AWG UNLESS OTHERWISE SPECIFIED.
- CABINET WIRING INSULATION TO BE TYPE XHHW OR APPROVED EQUAL.

LIGHTING GENERAL NOTES

- ALL WORK TO CONFORM TO THE NATIONAL ELECTRICAL CODE AND ANY APPLICABLE LOCAL CODES.
- CONTRACTOR TO VERIFY LOCATION OF ALL UNDERGROUND UTILITIES BEFORE TRENCHING OR AUGERING.
- BEFORE INSTALLING STANDARDS NEAR OVERHEAD FACILITIES CALL C.E. Co. FOR APPROVAL OF LOCATION.
- FOR LOCATION OF EXISTING UNDERGROUND ELECTRICAL CABLE CALL C.E. Co.
- SIZE ALL CONDUIT AS SPECIFIED ON DRAWINGS.
- CONTRACTOR SHALL TAKE ALL NECESSARY MEASURES TO RESTORE ANY SPECIALIZED LANDSCAPING, (I.E. DECORATIVE ROCKS, SHRUBS, PLANTS, ECT.) OR SHALL REPLACE IT, THE COST OF WHICH SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT.



SPlicing ELECTRIC CABLES
BASIC MATERIALS AND METHODS

CONTRACT NO. 83769

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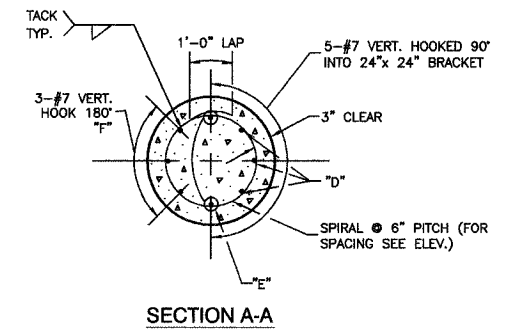
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No.	Date	Remarks
1	05/24/05	PAP

127TH STREET LIGHTING DETAILS

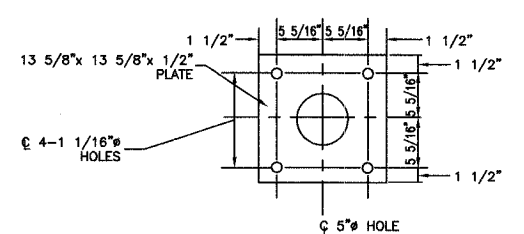
ALSIP, ILLINOIS

Drawn by: AG/EDG Date: 02/07/05
Checked by: RYH Scale: NONE
Sheet of Project No. 99-562.02

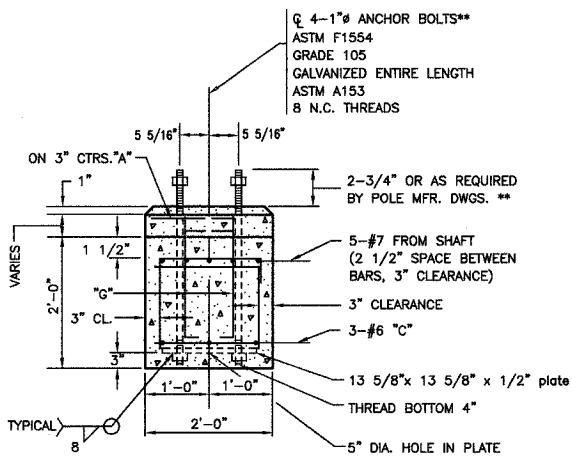
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STA.		TO STA.		
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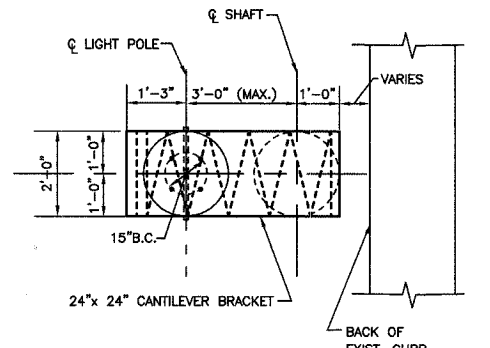
SECTION A-A



ANCHOR BOLT PLATE



SECTION B-B

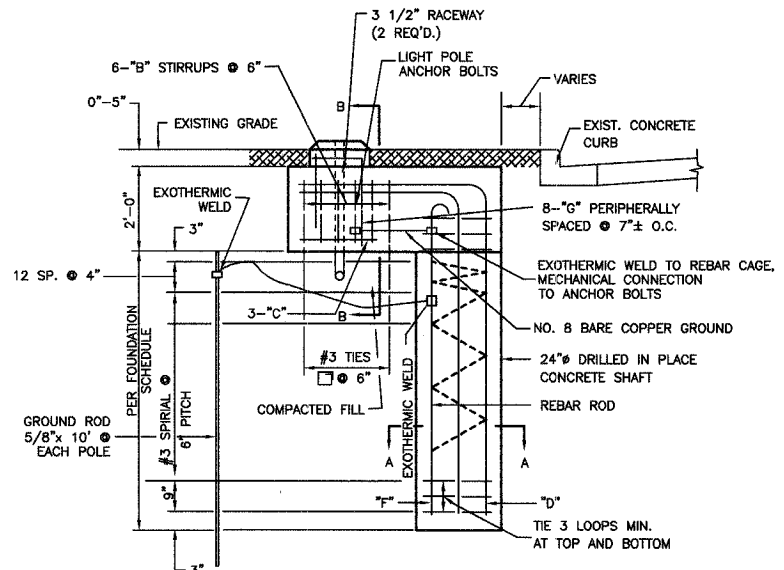


PLAN - CANTILEVERED BRACKET

NOTE:
THE TOP OF THE ANCHOR BOLTS SHOULD NOT PROJECT MORE THAN 4" ABOVE A 60" CHORD ALIGNED RADIALLY TO THE CENTERLINE OF THE HIGHWAY AND CONNECTING ANY POINT WITHIN THE LENGTH OF THE CHORD, ON THE GROUND SURFACE ON ONE SIDE OF THE SUPPORT TO A POINT ON THE GROUND SURFACE ON THE OTHER SIDE.

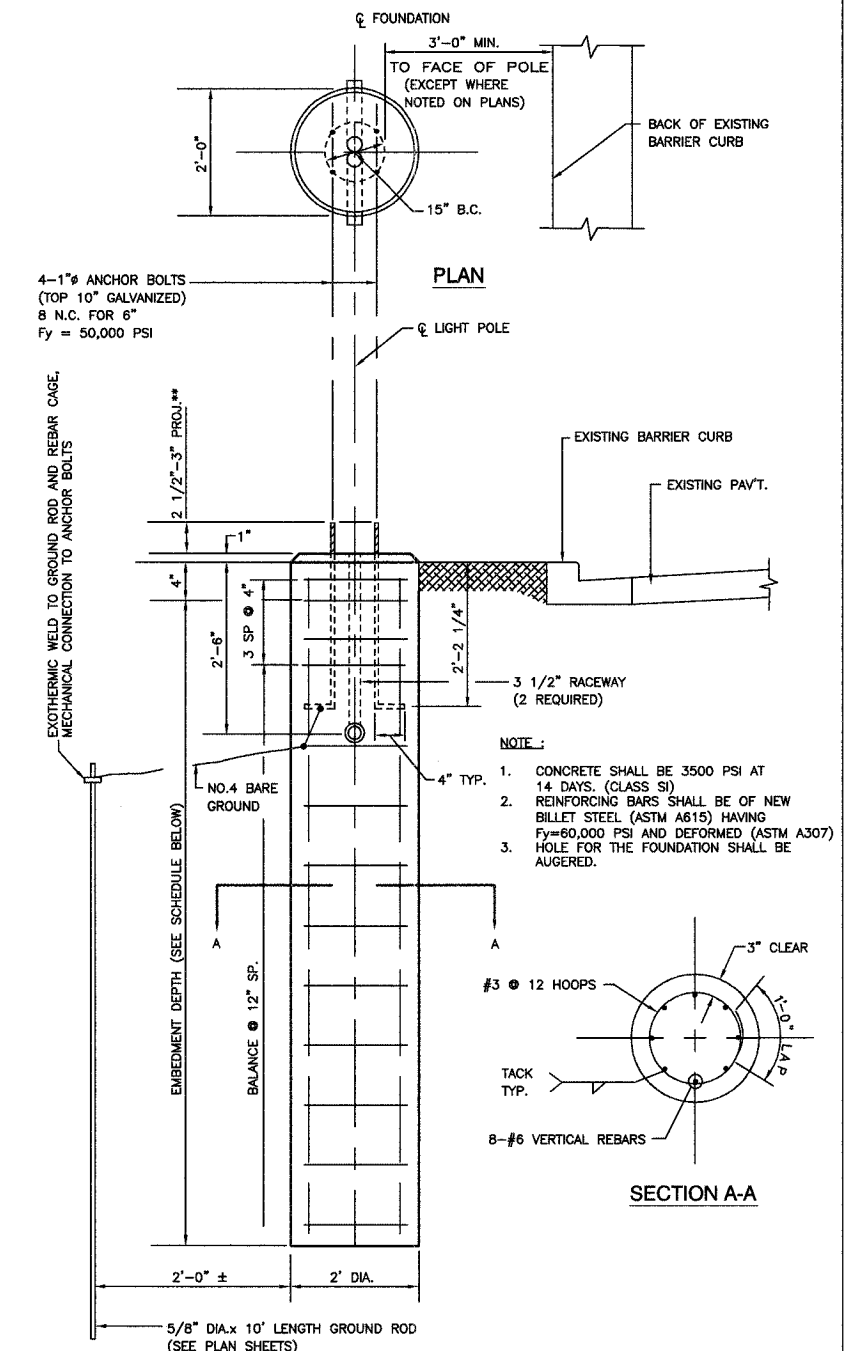
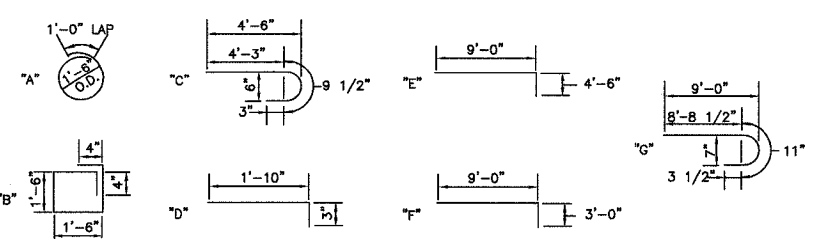
- NOTE:**
- CONCRETE SHALL BE 3500 PSI AT 14 DAYS. (CLASS SI)
 - REINFORCING BARS SHALL BE OF NEW BILLET STEEL ASTM M42M (M42) AND DEFORMED
 - HOLE FOR THE FOUNDATION (SHAFT) SHALL BE AUGERED
 - POLE FOUNDATION, OFFSET FOR THIS APPLICATION IS EQUIVALENT TO 13.5 LIN.FT. PER FOUNDATION.
 - THE CONTRACTOR SHALL USE A #3 SPIRAL AT 6" PITCH OR MAY SUBSTITUTE #3 TIES 12" O.C. WITH THE APPROVAL OF THE ENGINEER

BILL OF MATERIALS				
LIGHT POLE FOUNDATION, 24" DIAMETER, OFFSET				
QUAN.	MARK	SIZE	LENGTH	SHAPE
11	A	NO.3	5'-9"	○
6	B	NO.3	6'-8"	□
3	C	NO.6	5'-31/2"	—
8	G	NO.6	2'-1"	—
3	D	NO.7	13'-6"	—
2	E	NO.7	12'-0"	—
3	F	NO.7	9'-11"	—
REINFORCING BARS		LBS.	285	
CLASS X CONCRETE		CU.YDS.	1.7	
ANCHOR BOLTS		NO.	4	
ANCHOR BOLT PLATE NO.			1	



ELEVATION

POLE FOUNDATION, OFFSET - DETAILS

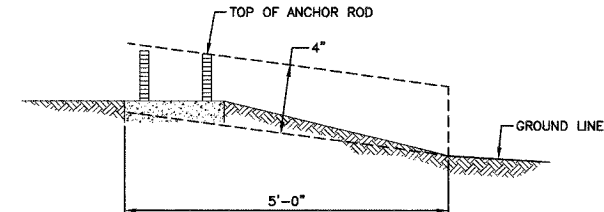


ELEVATION

LIGHT POLE FOUNDATION (TYPICAL)

NOTE:
ACTUAL FOUNDATION DEPTH IS EMBEDMENT DEPTH (FROM SCHEDULE) PLUS 6" EQUALS TOTAL DEPTH.
7'-6"+6"= 8'-0" FOR 40' MH
10'-0"+6"=10'-6" FOR 47.5' MH

TYPE OF SOILS		EMBEDMENT			
DESCRIPTION	STANDARDS	MOUNTING HEIGHT			
		30 FT.	35 FT.	40 FT.	47.5 FT.
SOFT CLAY	Qu = .25-.50 T/FT. 2	9'-0"	9'-8"	10'-6"	14'-0"
MEDIUM CLAY	Qu = .50-1.0 T/FT. 2	6'-6"	7'-0"	7'-6"	10'-0"
DENSE CLAY	Qu = 1.0-2.0 T/FT. 2	5'-6"	6'-0"	6'-6"	8'-6"
LOOSE SAND	N = 4-10	7'-0"	7'-8"	8'-4"	11'-0"
MEDIUM SAND	N = 10-30	6'-0"	6'-6"	7'-3"	9'-6"
DENSE SAND	N = 30-50	5'-6"	6'-0"	6'-6"	8'-6"



FOUNDATION EXTENSION DETAIL

NOTE:
THE FOUNDATION SHALL NOT PROTRUDE MORE THAN 100MM (4") ABOVE THE FINISHED GRADE WITHIN A 1.5M (60") CHORD ACROSS THE FOUNDATION, WITH ANCHOR RODS INCLUDED. IN ACCORDANCE WITH AASHTO GUIDELINES. IF THE FOUNDATION HEIGHT, INCLUDING ANCHOR RODS, EXTENDS BEYOND THESE SPECIFIED LIMITS, THE FOUNDATION SHALL BE REPLACED AT THE CONTRACTORS EXPENSE. SEE FOUNDATION EXTENSION DETAIL.

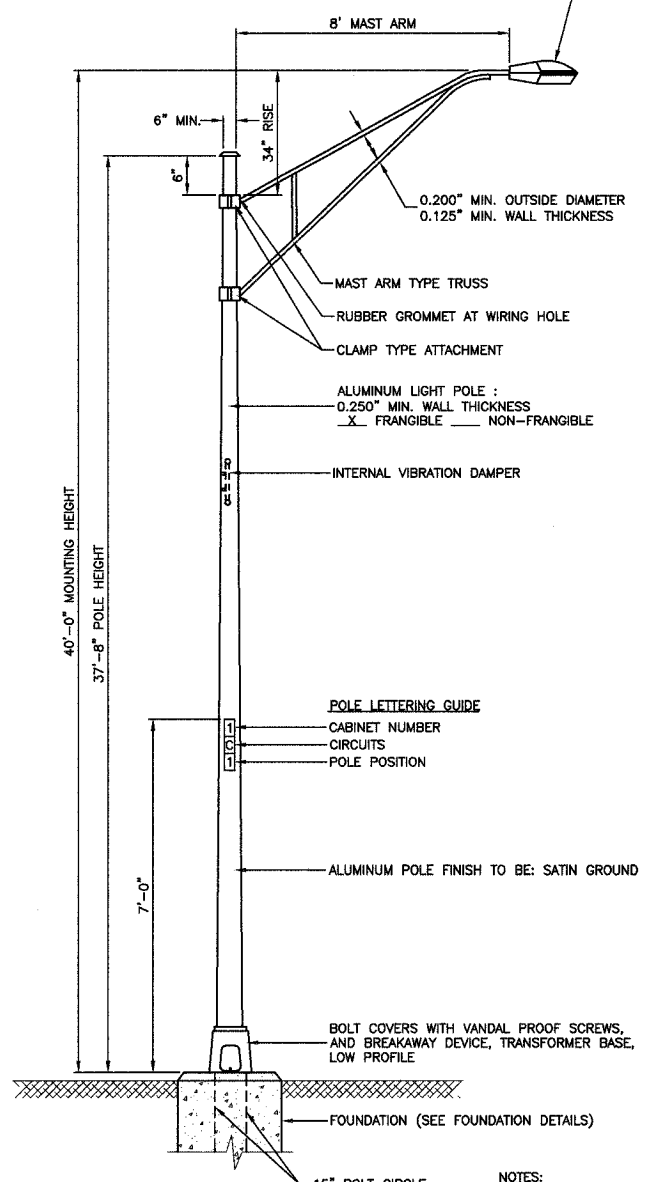
CONTRACT NO. 83769

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127TH STREET LIGHTING DETAILS ALSIP, ILLINOIS		<table border="1"> <tr> <td>Drawn by:</td> <td>AG/EDG</td> <td>Date:</td> <td>02/07/05</td> </tr> <tr> <td>Checked by:</td> <td>RVIII</td> <td>Scale:</td> <td>NONE</td> </tr> <tr> <td>Sheet</td> <td>of</td> <td>Project No.</td> <td>99-582.02</td> </tr> </table>		Drawn by:	AG/EDG	Date:	02/07/05	Checked by:	RVIII	Scale:	NONE	Sheet	of	Project No.	99-582.02
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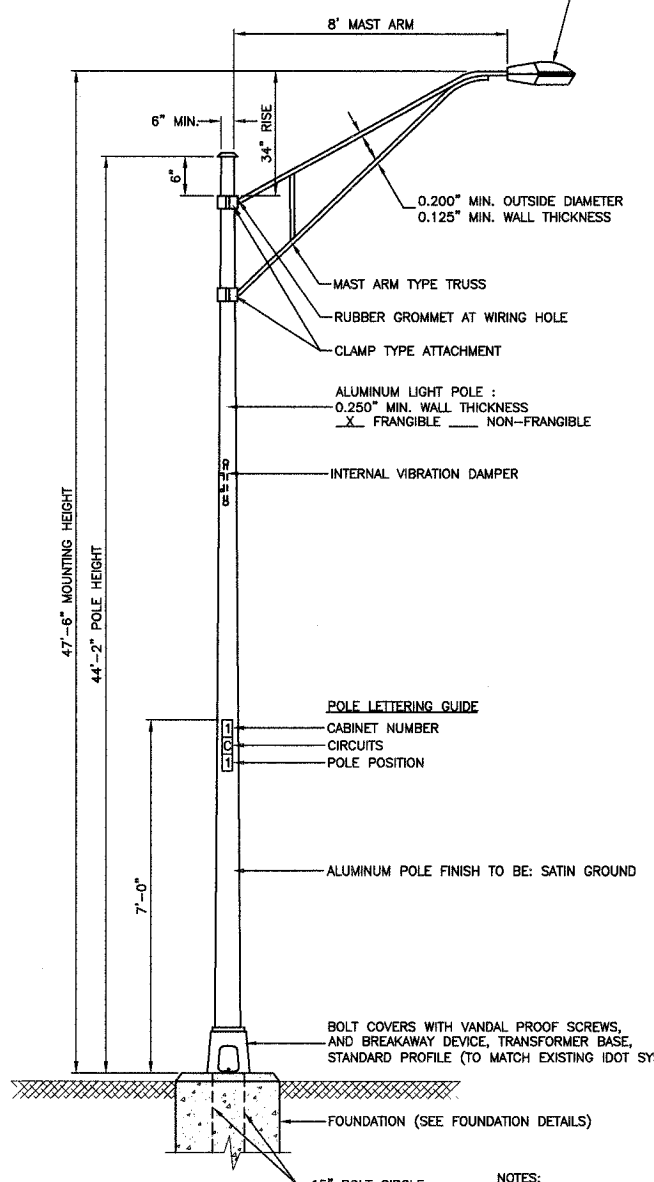
LUMINAIRE:
 250 WATT HIGH PRESSURE SODIUM LAMP
 240 VOLT BALLAST
 I.E.S. TYPE: MC III LIGHT DISTRIBUTION
 LENS TYPE: FLAT
 INITIAL LAMP LUMENS: 27,500
 LAMP LIFE: 24,000 HOURS

LUMINAIRE:
 250 WATT HIGH PRESSURE SODIUM LAMP FOR IDOT "CH" SYSTEM
 400 WATT HIGH PRESSURE SODIUM LAMP AT STA. 23+12, 32.5' RT
 240 VOLT BALLAST
 I.E.S. TYPE: MC III LIGHT DISTRIBUTION
 LENS TYPE: FLAT
 INITIAL LAMP LUMENS: 27,500 OR 50,000
 LAMP LIFE: 24,000 HOURS



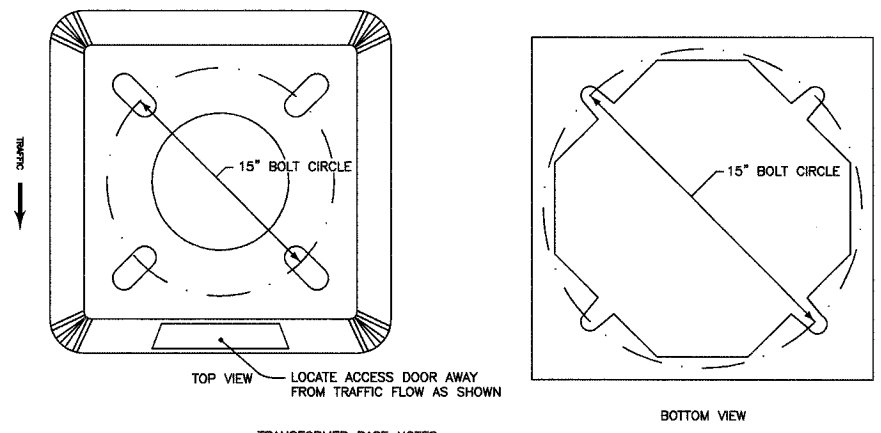
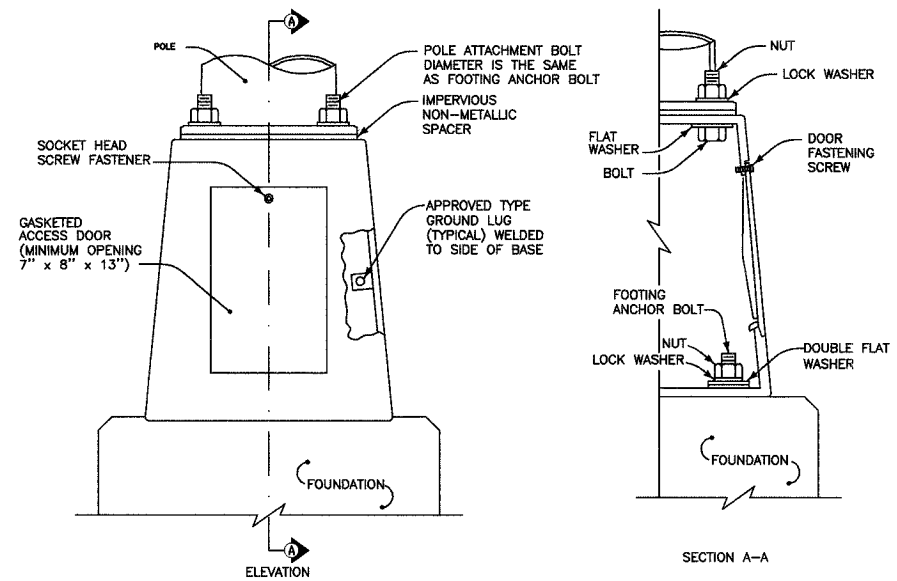
TYPICAL POLE INSTALLATION (40' MH)

- NOTES:**
1. THE LIGHTING UNITS SHALL MEET AASHTO DESIGN CRITERIA. DESIGN FOR 90 M.P.H. WIND WITH 30% GUST AND 75 POUND LUMINAIRE HAVING AN E.P.A. OF 1.6 SQ. FT. AND PROPER ICE LOADING.
 2. ALUMINUM ALLOY 6063-T6 SHALL BE USED.



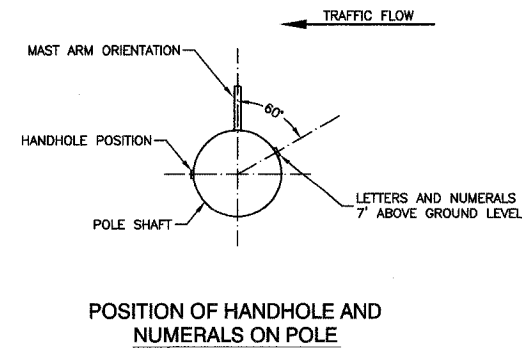
TYPICAL POLE INSTALLATION (47.5' MH)

- NOTES:**
1. THE LIGHTING UNITS SHALL MEET AASHTO DESIGN CRITERIA. DESIGN FOR 90 M.P.H. WIND WITH 30% GUST AND 75 POUND LUMINAIRE HAVING AN E.P.A. OF 1.6 SQ. FT. AND PROPER ICE LOADING.
 2. ALUMINUM ALLOY 6063-T6 SHALL BE USED.



- TRANSFORMER BASE NOTES:**
1. THE DETAILS INDICATED HEREON ARE TYPICAL FOR A CAST ALUMINUM TRANSFORMER BASE. ALTERNATE DESIGNS MAY BE SUBMITTED TO THE ENGINEER FOR APPROVAL.
 2. ALL DIMENSIONS SHALL MEET AASHTO STANDARDS.
 3. MATERIALS AND METHODS OF CONSTRUCTION SHALL BE IN ACCORDANCE WITH 2002 IDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.
 4. ALL MATERIALS, COMPONENTS AND EQUIPMENT SHALL BE U.L. LISTED.

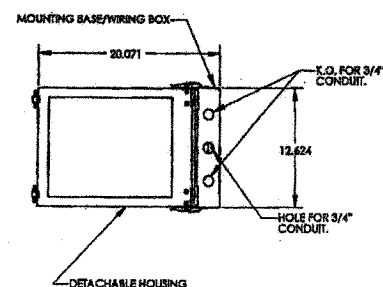
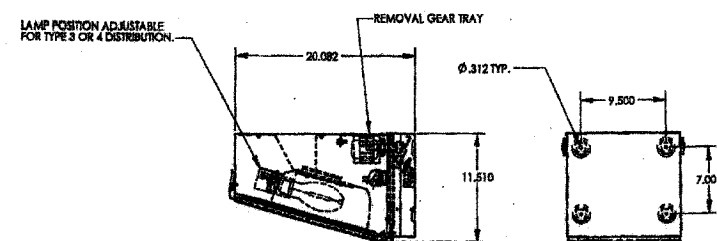
TRANSFORMER BASE DETAIL



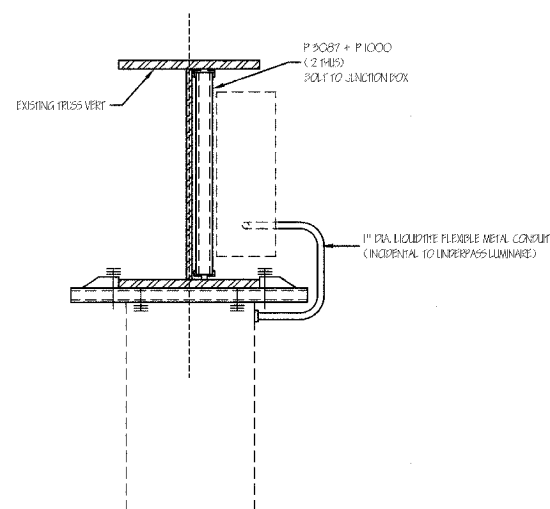
POSITION OF HANDHOLE AND NUMERALS ON POLE

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KENALL UNDERPASS LUMINAIRE (OR APPROVED EQUAL)
100W HPS, MODEL NO. WFT 1221



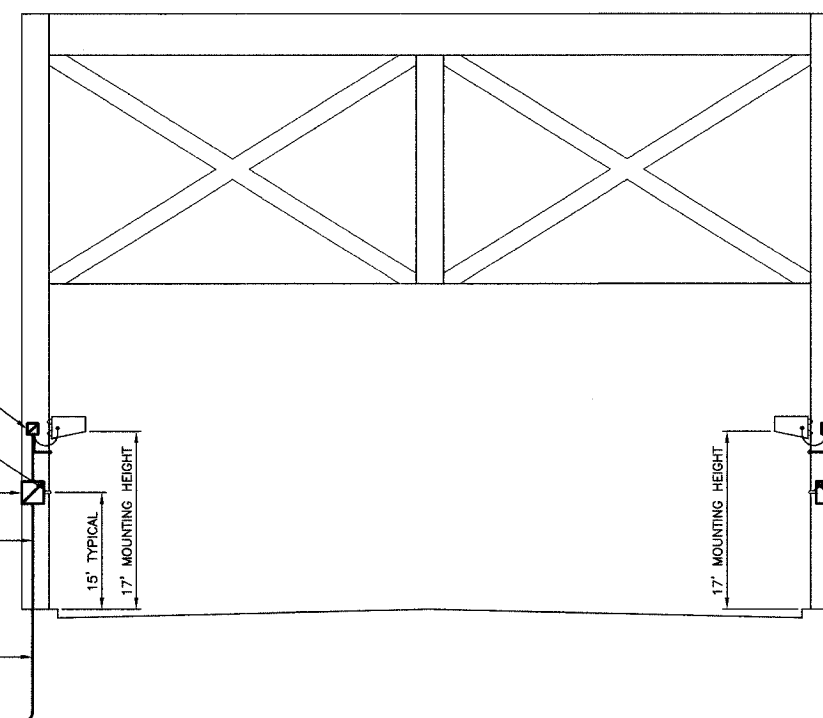
- ALL STRUCTURAL MEMBERS & CONNECTORS SHALL BE "UNISTRUT" OR APPROVED EQUAL WITH A GALVANIZED FINISH
- PROVIDE LOCK WASHERS & DR. NUTS AT ALL CONNECTION
- "P 2087 + P 1000" CONN. SHALL PROVIDE A SAFE PULL OUT CAP ≥ 1000 & RESISTANCE TO SLIP ≥ 800
- "P 1000 + P 2789" CONN. SHALL PROVIDE A SAFE PULL OUT CAP ≥ 1000 & RESISTANCE TO SLIP ≥ 900

PLAN DETAIL - NOT TO SCALE

UNDERPASS LUMINAIRE & 12" x 10" x 6" JUNCTION BOX ATTACHED TO STRUCTURE WITH UNISTRUT CHANNEL (SEE STRUCTURAL DETAILS - THIS PAGE)
2" G.S. CONDUIT ATTACHED TO STRUCTURE (3-1/C NO. 4 CONDUCTORS) (TYP.)

16" x 14" x 6" JUNCTION BOX
2" G.S. CONDUIT ATTACHED TO STRUCTURE (3-1/C NO. 4 CONDUCTORS) (TYP.)

SEE DETAIL AT RIGHT FOR JUNCTION BOX AND CONDUIT ATTACHED TO STRUCTURE



LIGHTING DETAIL FOR TRUSS BRIDGE
LOOKING WEST (NOT TO SCALE)

UNDERPASS LUMINAIRE & 12" x 10" x 6" JUNCTION BOX ATTACHED TO STRUCTURE WITH UNISTRUT CHANNEL (SEE STRUCTURAL DETAILS - THIS PAGE)
2" G.S. CONDUIT ATTACHED TO STRUCTURE (3-1/C NO. 4 CONDUCTORS) (TYP.)

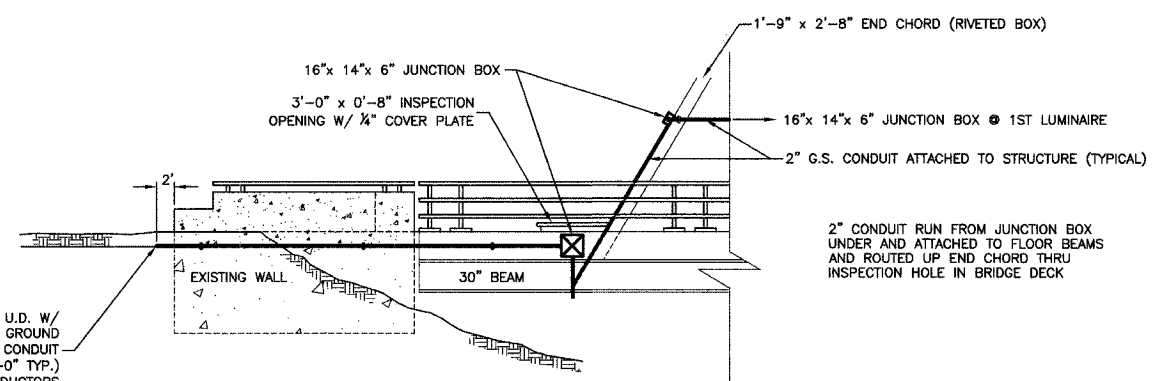
16" x 14" x 6" JUNCTION BOX
2" G.S. CONDUIT ATTACHED TO STRUCTURE (3-1/C NO. 4 CONDUCTORS) (TYP.)

HANDRAIL

16" x 14" x 6" JUNCTION BOX ATTACHED TO BRIDGE DECK (TYPICAL BOTH SIDES OF BRIDGE)

2" G.S. CONDUIT ATTACHED TO STRUCTURE (TYPICAL BOTH SIDES OF BRIDGE)

2" G.S. CONDUIT TO FIRST LIGHT POLE EAST OF BRIDGE (UNIT DUCT RUN WITHIN)



LIGHTING DETAIL FOR TRUSS BRIDGE LOOKING SOUTH
FROM NORTH SIDE OF BRIDGE (NOT TO SCALE)

2" CONDUIT RUN FROM JUNCTION BOX UNDER AND ATTACHED TO FLOOR BEAMS AND ROUTED UP END CHORD THRU INSPECTION HOLE IN BRIDGE DECK

ROBINSON ENGINEERING, LTD. CONSULTING REGISTERED PROFESSIONAL ENGINEERS AND PROFESSIONAL LAND SURVEYORS 17000 SOUTH PARK AVENUE SOUTH HOLLAND, ILLINOIS 60473 (708) 331-6700 FAX (708) 331-3826 © COPYRIGHT 2003			REVISIONS	
No.	Date	Remarks		
1	05/24/05	PAP		
2	08/05/05	PAP		
3	11/01/05	PAP		
4	11/21/05	BEO		
127TH STREET UNDERPASS LUMINAIRE LIGHTING DETAILS ALSIP, ILLINOIS				
Drawn by:	AG/EDG	Date:	02/07/05	
Checked by:	RYIII	Scale:	NONE	
Sheet:	of	Project No.:	99-562.02	