## STATE OF ILLINOIS

# DEPARTMENT OF TRANSPORTATION **DIVISION OF HIGHWAYS**

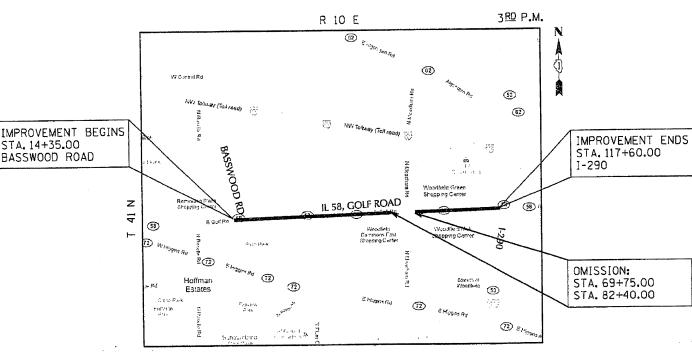
# PLANS FOR PROPOSED FEDERAL-AID HIGHWAY

FAU 559 (IL 58, GOLF ROAD) BASSWOOD ROAD TO I-290 ROADWAY LIGHTING IMPROVEMENT SECTION 10-00101-00-LT PROJECT NO. M-9003 (769) VILLAGE OF SCHAUMBURG **COOK COUNTY** 

C-91-352-11

LOCATION MAP

NOT TO SCALE





SECTION 10-00101-00-LT

559

COOK 15 1

ILLINOIS CONTRACT NO. 63563

March 10. 1.11 DISTRICT ONE ENGINEER OF LOCAL ROADS & STREETS RELEASING FOR BID MARCH 10 DEPUTY DIRECTOR OF HIGHWAYS, REGION ONE ENGINEER

> PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

### INDEX OF SHEETS

#### DESCRIPTION SHEET NO.

0

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SCHAUMBURG,

847-705-4406,

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RIDDL I

ES F. I SUNJOY

CHARLI SHAH S

AND OFFICE ENGINEER: ANT ENGINEER: JAGDISH

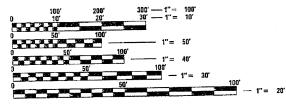
- **COVER SHEET**
- SUMMARY OF QUANTITIES, GENERAL NOTES AND LEGEND 2.
- ELECTRIC CIRCUIT MAINTAINED BY VILLAGE OF SCHAUMBURG 3.
- PROPOSED ORNAMENTAL LIGHTING 4.
- PROPOSED ORNAMENTAL LIGHTING 5.
- PROPOSED ORNAMENTAL LIGHTING 6.
- PROPOSED ORNAMENTAL LIGHTING 7.
- ONE LINE CIRCUIT DIAGRAM LIGHTING CONTROLLER 8. AT COMMONS DRIVE
- ONE LINE CIRCUIT DIAGRAM LIGHTING CONTROLLER
- 9. AT ROOSEVELT DRIVE
- ALUMINUM LIGHT POLE (47'-6") M.H. 10.
- LIGHT POST FOUNDATION, METAL 11.
- **OFFSET FOUNDATION** 12.
- LIGHTING CONTROLLER, CONSOLE TYPE 200 AMP, 13.
  - 240/480 VOLT, 1 PHASE, 3 WIRE
- ELECTRIC SERVICE INSTALLATION TRANSFORMER 14.
  - MOUNTED ON PAD
- **ELECTRICAL DETAILS** 15.

## LIST OF STANDARDS:

ODOOOI-O6 SYMBOLS, ABBREVIATIONS, AND PATTERNS
701501-O6 URBAN LANE CLOSURE, 2L, 2W, UNDIVIDED
701606-07 URBAN LANE CLOSURE, MULTILANE, 2W WITH MOUNTABLE MEDIAN
701701-07 URBAN LANE CLOSURE, MULTILANE INTERSECTION
701901-01 TRAFFIC CONTROL DEVICES

#### DESIGN

POSTED SPEED LIMIT - 40 MPH AVERAGE DAILY TRAFFIC (ADT): 45,900 (2005): ILLUMINATING ENGINEERING SOCIETY (IES) ROAD/AREA CLASSIFICATION: MAJOR MEDIUM



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.

JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION 1-800-892-0123 OR 811

CONTRACT NO. 63563

GROSS LENGTH = 10,325 FT. = 1.96 MILE

NET LENGTH = 9075 FT. = 1.72 MILE

STA. 14+35.00

BASSWOOD ROAD

OMISSION = 1265 FT. = 0.239 MILE





Sunjoy Inc.
Area Lighting | 212 TIMBERCREST DRIVE SCHAUMBURG, ILLINOIS 60193
TEL: 847-891-5486 - FAX: 847-891-5363
e-mailisunjoy00@hotmail.com

		7	<del></del>
	ITEM	UNIT	QUANTITY
42400200	PORTLAND CEMENT CONCRETE SIDEWALK 5 [NCH	SO FT	500
44000600	SIDEWALK REMOVAL	SO FT	500
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
80400100	ELECTRIC SERVICE INSTALLATION	EACH	2
80400200	ELECTRIC UTILITY SERVICE CONNECTION	L. SUM	1
81000700	CONDUIT IN TRENCH, 2⅓" DIA GALVANIZED STEEL	FOOT	470
81021370	CONDUIT PUSHED, 4" DIA PVC	FOOT	1,475
81603090	UNIT DUCT 600 V, 3-1/C NO.4, 1/C NO.6 GROUND (XLP TYPE-USE), 11/4" DIA, POLYETHYLENE	FOOT	20,360
81702460	ELECTRIC CABLE IN CONDUIT 600 V (XLP-TYPE USE) 3-1/C NO. 3/0	FOOT	530
81900200	TRENCH AND BACKFILL FOR ELECTRICAL WORK	FOOT	450
82102400	LUMINAIRE, SODIUM VAPOR, HORIZONTAL MOUNT, 400 WATT	EACH	124
83050710	LIGHT POLE, ALUMINUM, 47.5 FT M.H, 6 FT MAST ARM	EACH	124
X8340215	LIGHT POLE FOUNDATION, 24" DIAMETER, OFFSET	F00T	96
83600357	LIGHT POLE FOUNDATION, METAL, 15" BOLT CIRCLE, 8" x 8'	EACH	112
83800205	BREAKAWAY DEVICE, TRANSFORMER BASE 15 INCH BOLT CIRCLE	EACH	124
84500110	REMOVAL OF LIGHTING CONTROLLER	EACH	· 1
84500120	REMOVAL ELECTRIC SERVICE INSTALLATION	EACH	1
84500130	REMOVAL OF LIGHTING CONTROLLER FOUNDATION	EACH	1
Z0033028	MAINTENANCE OF LIGHTING SYSTEM	CAL MO	6
X8040310	ELECTRICAL SERVICE DISCONNECT	EACH	2
X8250505	LIGHTING CONTROLLER, SPECIAL	EACH	2
	67100100 70102620 70102625 70102635 80400100 80400200 81000700 81021370 81603090 81702460 81900200 82102400 83050710  XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	42400200 PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH  44000600 SIDEWALK REMOVAL  67100100 MOBILIZATION  70102620 TRAFFIC CONTROL AND PROTECTION, STANDARD 701501  70102625 TRAFFIC CONTROL AND PROTECTION, STANDARD 701606  70102635 TRAFFIC CONTROL AND PROTECTION, STANDARD 701701  80400100 ELECTRIC SERVICE INSTALLATION  80400200 ELECTRIC UTILITY SERVICE CONNECTION  81000700 CONDUIT IN TRENCH, 2½" DIA GALVANIZED STEEL  81021370 CONDUIT PUSHED, 4" DIA PVC  81603090 UNIT DUCT 600 V, 3-1/C NO.4, 1/C NO.6 GROUND (XLP TYPE-USE), 1½" DIA. POLYETHYLENE  81702460 ELECTRIC CABLE IN CONDUIT 600 V (XLP-TYPE USE) 3-1/C NO. 3/O  81900200 TRENCH AND BACKFILL FOR ELECTRICAL WORK  82102400 LUMINAIRE, SODIUM VAPOR, HORIZONTAL MOUNT, 400 WATT  83050710 LIGHT POLE, ALUMINUM, 47.5 FT M.H, 6 FT MAST ARM  X8040215 LIGHT POLE FOUNDATION, 24" DIAMETER, 0FFSET  83600357 LIGHT POLE FOUNDATION, METAL, 15" BOLT CIRCLE, 8" x 8'  83800205 BREAKAWAY DEVICE, TRANSFORMER BASE 15 INCH BOLT CIRCLE  84500110 REMOVAL OF LIGHTING CONTROLLER  84500120 REMOVAL OF LIGHTING CONTROLLER FOUNDATION  84500130 REMOVAL OF LIGHTING CONTROLLER FOUNDATION  20033028 MAINTENANCE OF LIGHTING SYSTEM  X8040310 ELECTRICAL SERVICE DISCONNECT	42400200 PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH  44000600 SIDEWALK REMOVAL  50 FT  44000600 SIDEWALK REMOVAL  67100100 MOBILIZATION  L SUM  70102620 TRAFFIC CONTROL AND PROTECTION, STANDARD 701501  L SUM  70102625 TRAFFIC CONTROL AND PROTECTION, STANDARD 701606  L SUM  80400100 ELECTRIC SERVICE INSTALLATION  EACH  80400200 ELECTRIC UTILITY SERVICE CONNECTION  81000700 CONDUIT IN TRENCH, 2½" DIA GALVANIZED STEEL  81001370 CONDUIT PUSHED, 4" DIA PVC  81603090 UNIT DUCT 600 V, 3-1/C NO.4, 1/C NO.6 GROUND (XLP TYPE-USE), FOOT  81702460 ELECTRIC CABLE IN CONDUIT 600 V (XLP-TYPE USE) 3-1/C NO. 3/0 FOOT  81900200 TRENCH AND BACKFILL FOR ELECTRICAL WORK  82102400 LUMINAIRE, SODIUM VAPOR, HORIZONTAL MOUNT, 400 WATT  83050710 LIGHT POLE, ALUMINUM, 47.5 FT M.H, 6 FT MAST ARM  EACH  83050710 LIGHT POLE FOUNDATION, METAL, 15" BOLT CIRCLE, 8" × 8"  83800205 BREAKAWAY DEVICE, TRANSFORMER BASE 15 INCH BOLT CIRCLE  84500110 REMOVAL OF LIGHTING CONTROLLER  84500120 REMOVAL OF LIGHTING CONTROLLER  84500130 REMOVAL OF LIGHTING SYSTEM  CAL MO  X8040310 ELECTRICAL SERVICE DISCONNECT  EACH

\* SPECIALTY ITEMS

#### **GENERAL NOTES**

- THE EXISTING LIGHTING-SYSTEM SOUTH AND NORTH ON BASSWOOD ROAD, SOUTH ON COMMONS DRIVE, SOUTH AND NORTH NATIONAL PARKWAY, NORTH ON ROOSEVELT ROAD, NORTH ON EAST DRIVE IS MAINTAINED BY THE VILLAGE OF SCHALIMBURG, ESTING CIRCUIT SYSTEM AT WOODFIELD SHOPPING AREA, ON WEST DRIVE, MIDDLE DRIVE AND EAST DRIVE IS MAINTAINED BY THE PRIVATE DEVELOPER BOTH EXISTING LIGHTING SYSTEM IS SEPARATE FROM THE PROPOSED COLF ROAD LIGHTING IMPROVEMENT.
- 2. BEFORE PERFORMING ANY EXCAVATION, REMOVAL OR INSTATTION WORK AT THE PROJECT SITE, THE CONTRACTOR SHALL NOTIFY THE FIELD ENGINEER VILLAGE OF SCHAUMBURG TELS 484-923-6600 AND REQUEST FOR VILLAGE PRECONSTRUCTION INSPECTION FOR THE VILLAGE MAINTAINED LIGHTING/ELECTRICAL EQUIPMENT. THE REQUEST FOR THE PRECONSTRUCTION INSPECTION SHALL BE MADE NOT LESS THAN SEVEN (7) CALENDER DAYS PRIOR TO THE DESIRED INSPECTION DATE.
- 3. THE CONTRACTOR SHALL CONDUCT WITH THE VILLAGE ELECTRIC MAINTENANCE CONTRACTOR AN INVENTORY OF THE EXISTING LIGHTING/ELECTRICAL EQUIPMENTS, WHICH WILL BE AFFECTED BY THE IMPROVEMENT. THIS INVENTORY RECORD SHALL BE IN WRITING AND SIGNED BY ALL PARTIES. THE CONTRACTOR SHALL SUBMIT RECORD
- AT THE CONTRACTOR'S REQUEST, THE VILLAGE ELECTRIC MAINTENANCE CONTRACTOR SHALL MARK AND/OR STAKE (ONLY ONCE PER LOCATION), WITHIN PROJECT LIMITS, ALL UNDERGROUND CABLE ROUTES OWNED AND MAINTAINED BY THE VILLAGE, SEVEN (7) DAYS ADVANCE NOTICE IS REQUIRED BY THE VILLAGE ELECTRIC MAINTENANCE CONTRACTOR.
- 5. THE PROPOSED LIGHTING IMPROVEMENT SHALL BE COORDINATED WITH THE ENGINEER.
  THE CONTRACTOR SHALL GIVE IN WRITING TO THE ENGINEER FOR REVIEW, CONSTRUCTION
  STAGING FOR THE PROPOSED ROADWAY LIGHTING IMPROVEMENT AND THE CONTRACTOR
  SHALL OBTAIN WRITTEN APPROVAL FROM THE ENGINEER THE CONTRACTOR SHALL MAINTAIN
  THE EXISTING LIGHTING SYSTEM AS DESCRIBED IN PAY ITEM- "MAINTANANCE OF LIGHTING SYSTEM"
- 6. BELOW CROWND SPLICING OF THE UNIT DUCT AND CIRCUIT CABLES WILL NOT BE PERMITED.
- DISCONNECTION AND REMOVAL OF THE EXISTING CIRCUITS, FURNISHING AND INSTALLING QUICK DISCONNECT WITH FUSES AND CIRCUIT CABLES IN THE LIGHT POLE SHALL BE INCLUDED IN THE PAY ITEM "LUMINARE, SODIUM VAPOR, HORIZONTAL MOUNT, 400 WATT
- 8. WHERE SEPARATE CIRCUIT RUNS ARE TO BE INSTALLED PARALLEL WITH EACH OTHER, ONE COMMON TRENCH SHALL BE USED AND SHALL BE MEASURED ONLY ONCE FOR PAYMENT, AS TRENCH AND BACKFILL FOR ELECTRICAL WORK.
- 9. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO MARK THE PROPOSED LOCATIONS OF HIGHWAY LIGHTIMG SYSTEM PER ARTICLE 801.09 OF THE STANDARD SPECIFICATIONS FOR THE ENGINEER'S INSPECTION AND APPROVAL. THE EXACT LOCATIONS OF ALL OTHER ROADWAY LIGHTIMG TIES, INCLUDING THE THE LIGHTIMG CONTROLLERIS, SHALL BE CONFIRMED WITH THE ENGINEER PRIOR TO STARTING WORK.

**GENERAL NOTES** 

- 11. THE CONTRACTOR SHALL SUBMIT PER ARTICLE 801.05 OF THE STANDARD SPECIFICATIONS FOR THE ENGINEER APPROVAL, WITHIN 30 DAYS AFTER CONTRACT EXECUTION, EIGHT (8) COPIES OF APPROVABLE MANUFACTURER'S PRODUCT DATA AND DETAIL SHOP DRAWINGS THE SUBMITTAL SHALL INCLUDE:
- THE SUBMITTAL SHALL INCLUDE:

  0. TRENCH: ELECTRICAL WARNING TAPE

  b. FOUNDATION: CLASS "SI" CONCRETE, REINFORCEMENT, PVC RACEWAYS.

  ANCHOR BOLTS WITH NUTS & WASHERS.

  c. CONDUIT: CONDUIT AND CONDUIT FITTINGS.

  d. GROUND ROD. GROUND ROD, COPPER WIRE, EXOTHERMIC WELD.

  e. UNIT DUCT/CABLES: UNIT DUCT, CABLES

  f. ELECTRIC CABLES: ELECTRIC TAPES, OUICK DISCONNECT WITH FUSE, LAMPS.

  LICETING CONTROLLED, CABLES COLOR DANEL WIDING CATTLED COLOR.

- G. ELECTRICAL TREMS: ELECTRIC TAPES, SUICK DISCOUNCEL WITH FUSE, LAMPS.

  ILIGHTING CONTROLLER: CABINET DETAILS COLOR, PANEL WIRING, CATALOG CUTS
  FOR ELECTRIC MATERIALS.

  I. METAL FOUNDATION: FABRICATION DETAILS

  J. LIGHT POLE: POLE DETAIL SHOP DRAWING, WIND LOAD CALCULATIONS, POLE WIRING K. LUMINAIRE: LUMINAIRE CATALOG CUT, LUMINAIRE INTERNAL ELECTRIC COMPONANTS. PHOTOMETRY DATA FILE.
- 12. ALL ELECTRIC CABLE CIRCUIT SHALL BE FULLY PIGMENTED COLOR CODED AND TAGGED AS SHOWN ON THE ORAWINGS.
  RED/BLACK CIRCUIT PHASE WIRES WHITE-NEUTRAL.
  GREEN-GROUND
- 13. THE CONTRACTOR SHALL SUBMIT FOUR (4) SETS, OF RECORD DRAWINGS FULL SIZE COMPLETE, NEAT AND ACCURATE TO THE ENGINEER FOR REVIEW AND COMMENT, AS SPECIFIED PER ARTICLE 801.16 OF THE STANDARD SPECIFICATIONS, THE "RECORD DRAWINGS" SHALL BE UPDATED ON A RECULAR BASIS AND DEPICT ALL ROADWAY LICHTING MATERIAL INSTALLATIONS WITH ANY CHANGES INDICATED IN RED. "RECORD DRAWINGS" SHALL BE SUBMITTED AT LEAST 7 DAYS BEFORE SCHEDULING A FINAL INSPECTION.
- 14. THE CONTRACTOR SHALL NOTIFY J.U.L.I.E. AT (1-800-892-0123) TO LOCATE AND MARK/STAKE ALL UNDERGROUND UTILITIES.
- 15. THE LIGHT POLE SETBACK SHALL BE 3.0' FROM THE BACK OF CURB TO THE FACE OF FOUNDATION.
- IG. RESTORATION OF PARKWAY AND PROJECT SITE SHALL BE INCIDENTAL TO CONTRACT IN ACCORDANCE WITH ALL APPLICABLE CODES AND REGULATIONS AND THE STANDARD SPECIFICATIONS.
- 17. THE CONTRACTOR SHALL COMPLY WITH ALL LOCAL CODES AND ORDINANCES ISSUED BY THE VILLAGE OF SCHUMBURG.
- 18. THE PROPOSED TRENCH SHALL BE (30 INCH) BELOW FINISHED GRADE, PER SECTION 819 OF THE STANDARD SPECIFICATIONS.
- 19. ALL ELECTRICAL EQUIPMENT AND PRODUCT SHALL BE ULLISTED AND LABELED
- POLE FUSES AND ASSOCIATED HARDWARE/MATERIAL AND INSTALLATION SHALL BE INCLUDED IN THE LUMINAIRE PAY ITEM.
- 21. THE ENGINEER WILL NOT AUTHORIZE PARTIAL ACCEPTANCE OF THE PROJECT. FINAL INSPECTION AND ACCEPTANCE OF THE PROJECT WILL ONLY BE PERMITTED PER ARTICLE BOILS OF THE STANDARD SPECIFICATIONS.
- 22. ALL WORK SHALL BE COORDINATED WITH THE CONCURRENT RECONSTRUCTION PROJECT ACCORDING TO THE SPECIAL PROVISIONS.
- 23. THE CONTRACTOR SHALL VERIFY BOLT CIRCLE OF EXISTING LIGHT POLE TO BE REMOVED.
- 24. POLYETHYLENE DUCT WITH ELECTRIC CABLE (XLP-TYPE USE) SHALL MEET THE REQUIREMENTS OF THE ARTICLE 816 OF THE STANDARD SPECIFICATIONS.
- 24. THE RESIDENT ENGINEER SHALL CONTACT THE TRAFFIC CONTROL SUPERVISOR AT 847-705-4470.

  A MINIMUM OF 72 HOURS PRIOR TO THE PLACEMENT OF ANY TEMPORARY TRAFFIC CONTROL DEVICES.

SECTION COUNTY 559 10-00101-00-LT COOK 15

#### **LEGEND**

EXISTING LIGHTING UNIT, REMIAN IN PLACE MAINTAINED BY THE STATE 48'MH, 8'MA 400W HPS, M-C-III

EXISTING LIGHT TOWER UNIT, REMIAN IN PLACE MAINTAINED BY THE STATE 100' MH, 3-700W HPS, M-C-III

EXISTING LIGHTING UNIT, REMIAN IN PLACE MAINTAINED BY PRIVATE DEVELOPERS 40' MH, 0.75' MA 400W HPS, M-C-III

ET-P-ET EXISTING TWIN ARM LIGHTING UNIT, REMIAN IN PLACE 50' MH, 2-0.75' MA 400W HPS

EXISTING LIGHTING UNIT, REMIAN IN PLACE MAINTAINED BY THE VILLAGE OF SCHAUMBURG 30' MH, 6' MA 200 HPS

O—E V EXISTING LIGHTING UNIT, REMIAN IN PLACE MAINTAINED BY THE VILLAGE OF SCHAUMBURG 40°MH, 6°MA 250 HPS

LAMP WATTAGE

EXISTING TWIN ARM LIGHTING UNIT, REMIAN IN PLACE MAINTAINED BY THE VILLAGE OF SCHAUMBURG 40'MH, 2'-6" MA 250W HPS, M-C-III  $\mathbb{Z} - \mathbb{Q} - \mathbb{Z}$ 25

- LAMP WATTAGE

EXISTING LIGHTING CONTROLLER TO BE REMOVED

EXISTING ELECTRIC UTILITY SERVICE 

EXISTING LIGHTING CIRCUIT

GROUND ROD, 1/8" DIA x 10 FT (PLEASE REFER SHEET \*E-3 FOR NOTE)

PROPOSED UNIT DUCT BORED AND PULLED UNIT DUCT 600 V. 3-1/C NO. 4, 1/C NO. 6 GROUND (XLP TYPE-USE). 1/4" POLYETHYLENE

LIGHTING CONTROLLER, SPECIAL 200 AMPERE, 240/480 VOLT, 1 PHASE, 3 WIRE, PHOTOCELL CONTROL

SERVICE CABLE IN CONDUIT ELECTRIC CABLE IN CONDUIT 600 V (XLP-TYPE USE-2), 3-1/C NO. 3/O  $2^1\!/_2$ " DIA CONDUIT

PROPOSED LIGHT POLE, ALUMINUM 47.5 FT MOUNTING HEIGHT, 6 FT MAST ARM, 15" DIA BOLT CIRCLE. LUMINAIRE 400 WATT CLEAR HPS LAMP, M-C-III, MULTITAP CWA BALLAST (240 VOLT LINE TO NEUTRAL) POLE MOUNTED ON METAL FOUNDATION WITH BREAKWAY TRANSFORMER BASE **-**-**⊙** 

T/P

D x L

PVC CONDUIT, SCHEDULE 80

CONDUIT IN TRENCH (T) OR PUSHED (P) LENGTH

A3 (R)

- DIAMETER

- COLOR OF PHASE WIRE - POLE NUMBER IN CIRCUIT -BRANCH CIRCUIT BREAKER IDENTIFICATION

EXISTING TRAFFIC SIGNAL POLE

-- RA-- REMOVE EXISTING ABONDONED CIRCUIT

#### CIRCUIT CABLES

ALL CONDUCTORS SHALL BE INDIVIDUALLY FULLY PIGMENTEDCOLOR CODED. THE COLOR CODED INSULATION FOR EACH WIRE SHALL RUN THE ENTIRE LENGTH OF THE CONDUCTOR FROM THE CIRCUIT BREAKER TO THE LUMINAIRE WITH THE SAME COLOR.



VILLAGE OF SCHAUMBURG, ILLINOIS DEPARTMENT OF ENGINEERING AND PUBLIC WORKS IL ROUTE 58 (GOLF ROAD) LIGHTING IMPROVEMENTS BASSWOOD ROAD TO I-290 UNDERPASS SUMMARY OF QUANTITIES, **GENERAL NOTES, LEGEND** SCALE: NONE

DATE: 10-05-09

E-2 OF E-15

CHECKED BY \_\_\_JS\_\_\_\_

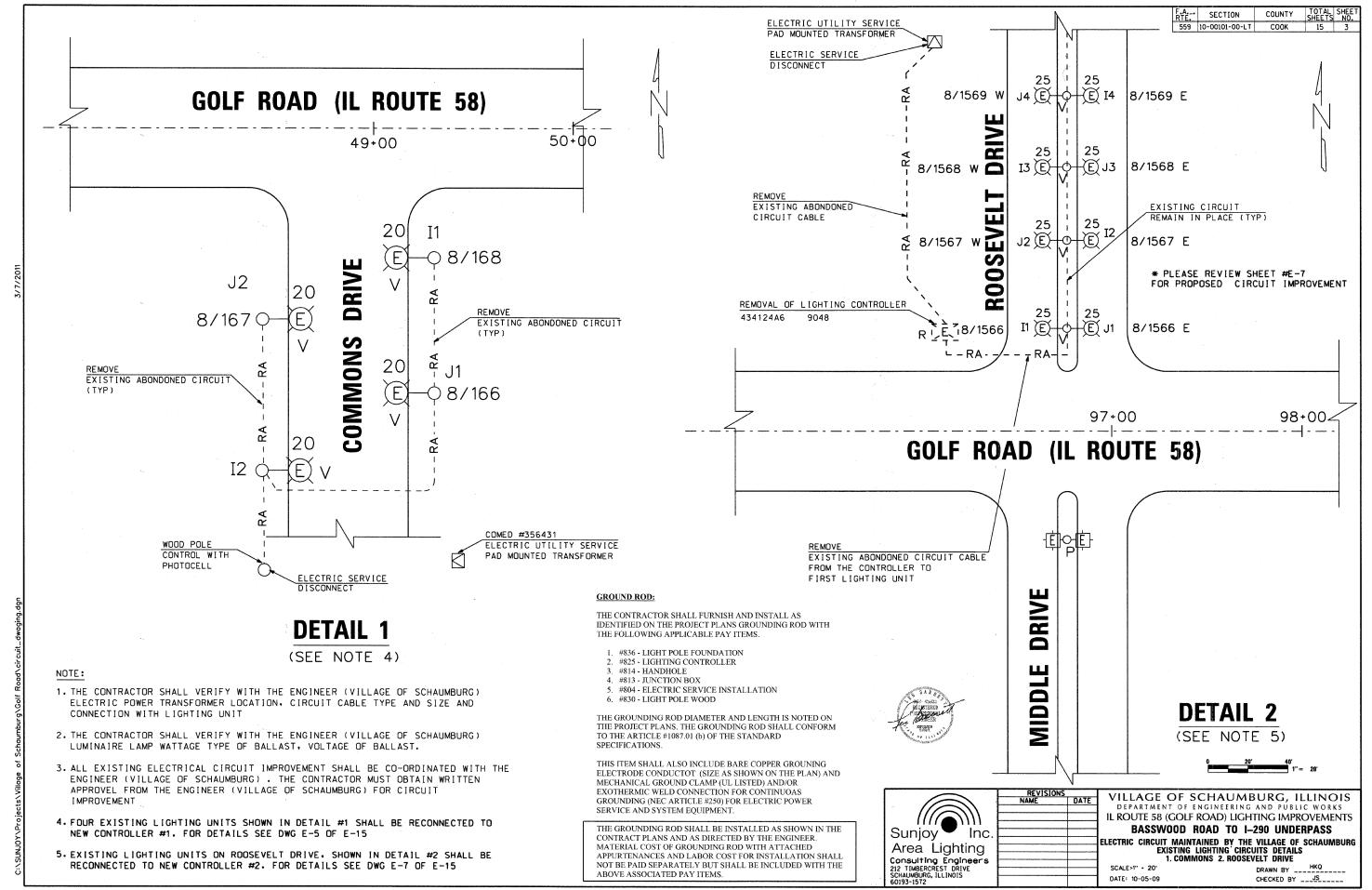
10. THE RESPONSIBILITY FOR COORDINATING FINISHED GRADE ELEVATION WITH THE TOP OF THE FOUNDATION HEIGHTS SHALL BE WITH THE CONTRACTOR.

UTILITIES EXISTING ROW EXISTING STORM SEWER EXISTING SANITARY SEWER -)--)--)--)--EXISTING ELECTRIC CABLE

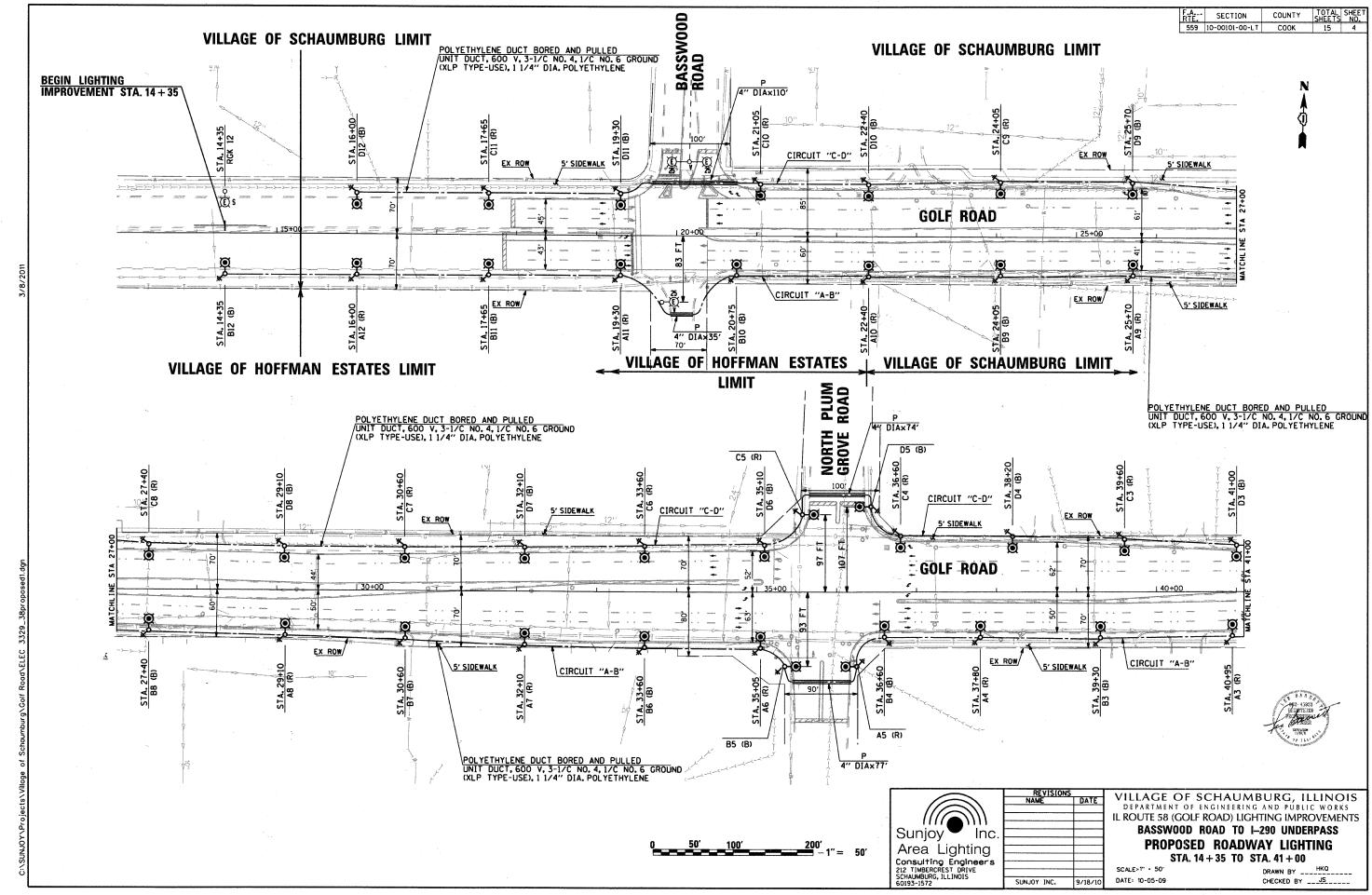
UTILITIES INFORMATION FOR REFERENCE ONLY (BY OTHERS), SUNJOY INC. IS NOT RESPONSIBLE FOR ANY ERROR AND OMISSION, THE CONTRACTOR SHOULD VERIFY EACH UTILITY WITH THE RESPECTIVE UTILITY COMPANY OR VILLAGE OF SCHAUMBURG.

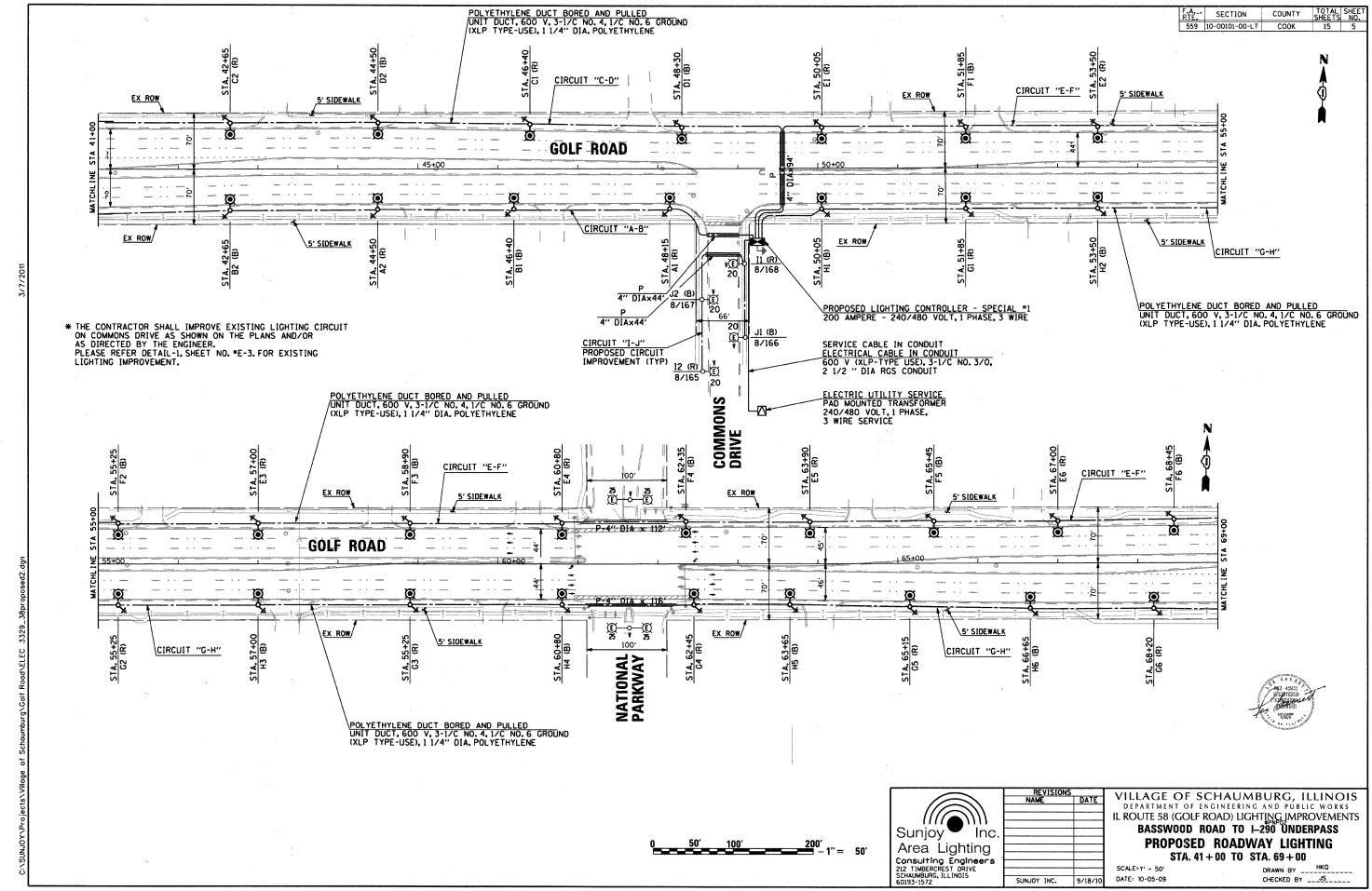
EXISTING TELEPHONE LINE

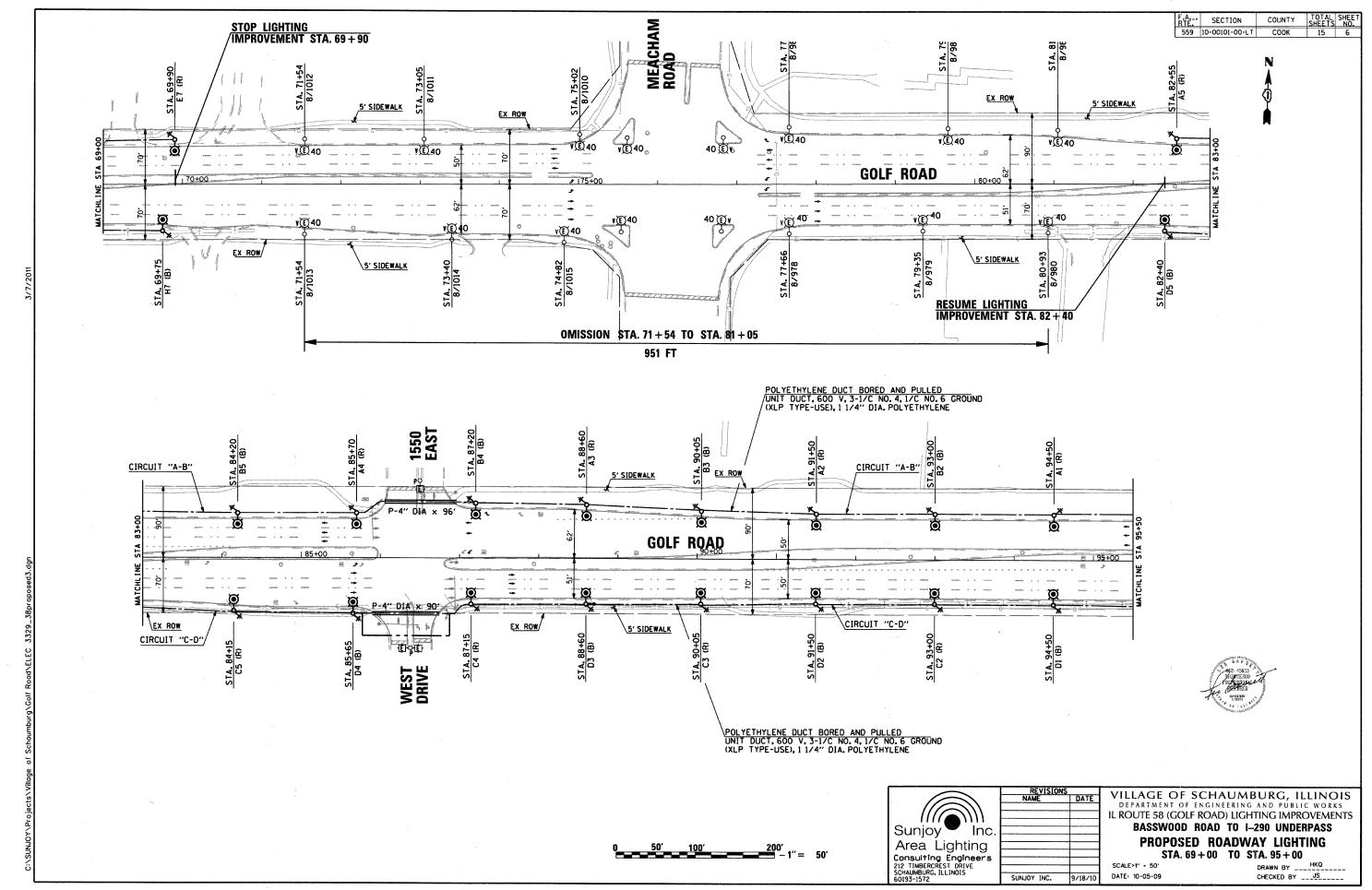
THE PREASSEMBLED ELECTRIC CABLE UNIT DUCT SHALL BE INSTALLED AT A MINIMUM DEPTH OF 30 INCHES IN APPROVED METHOD BY THE ENGINEER - BORED AND PULLED AS SPECIFIED IN ARTICLE B16.03. UNIT DUCT INSTALLATION COST FOR BORED PULLED METHOD SHALL BE INCLUDED IN PAY ITEM—"UNIT DUCT 600V, 3-1/C NO.4 .1/C NO.6 GROUND (XLP- TYPE USE), 1/4" DIA, POLYETHYLENE"

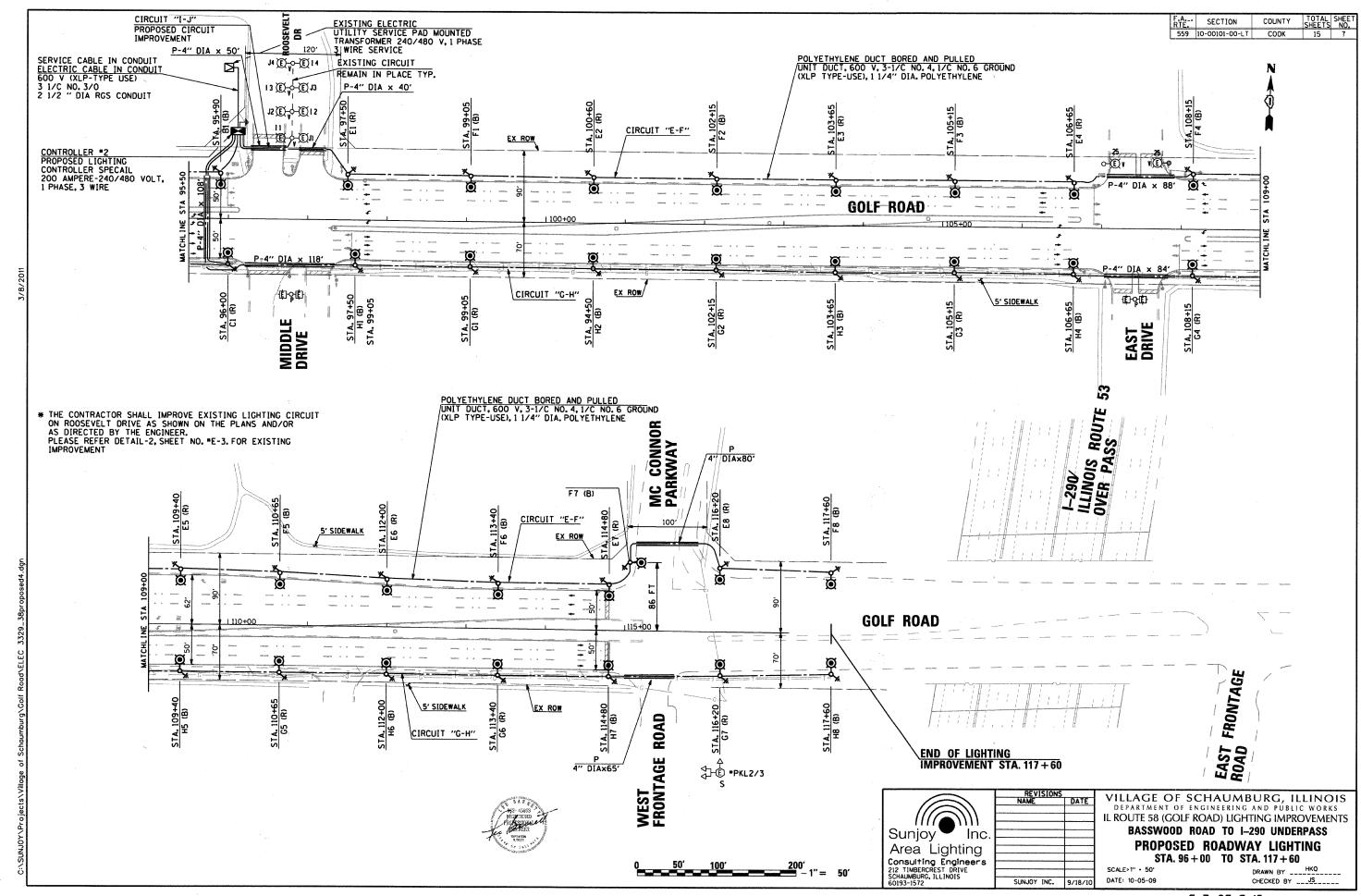


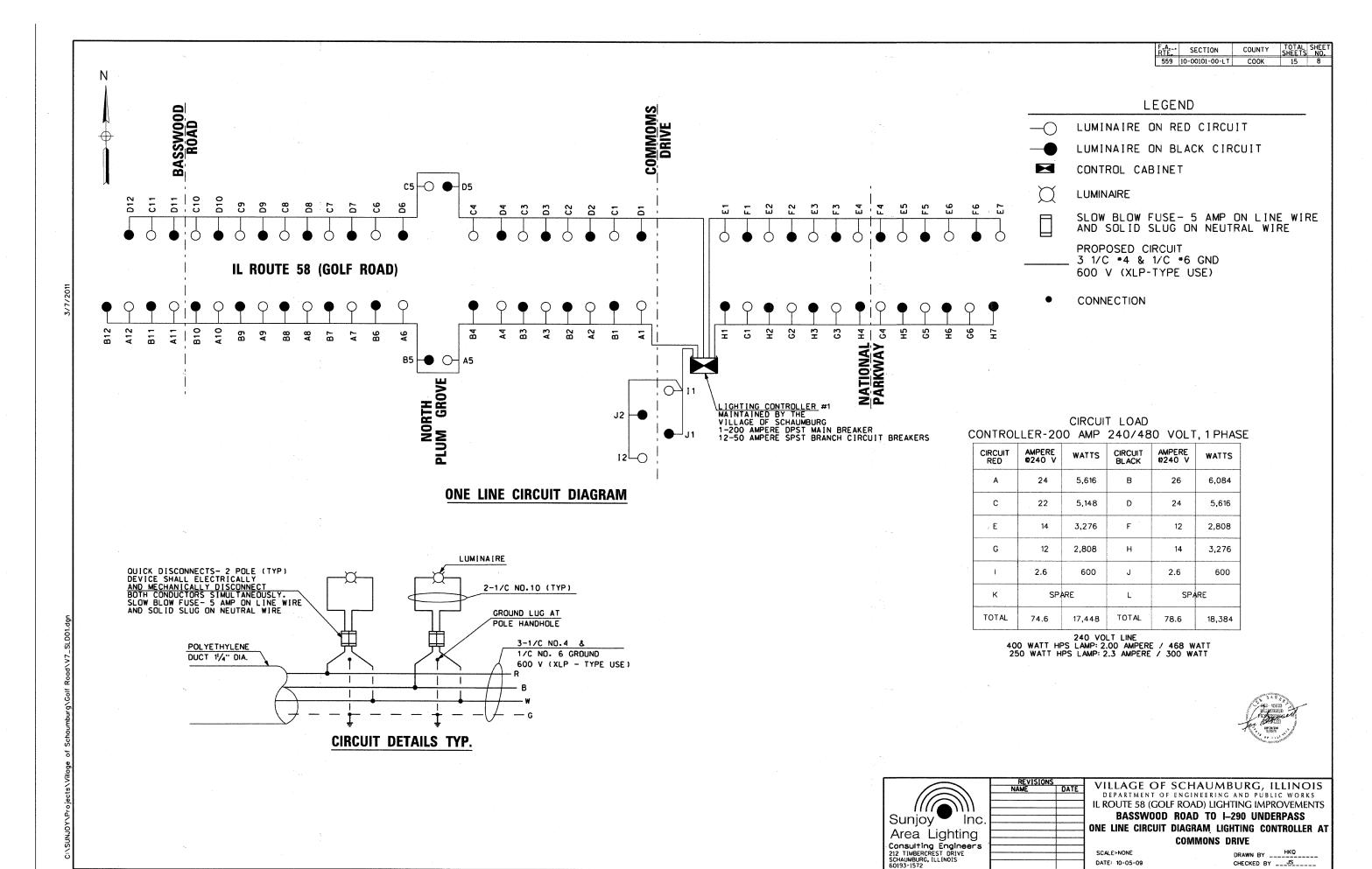
E-3 OF E-15

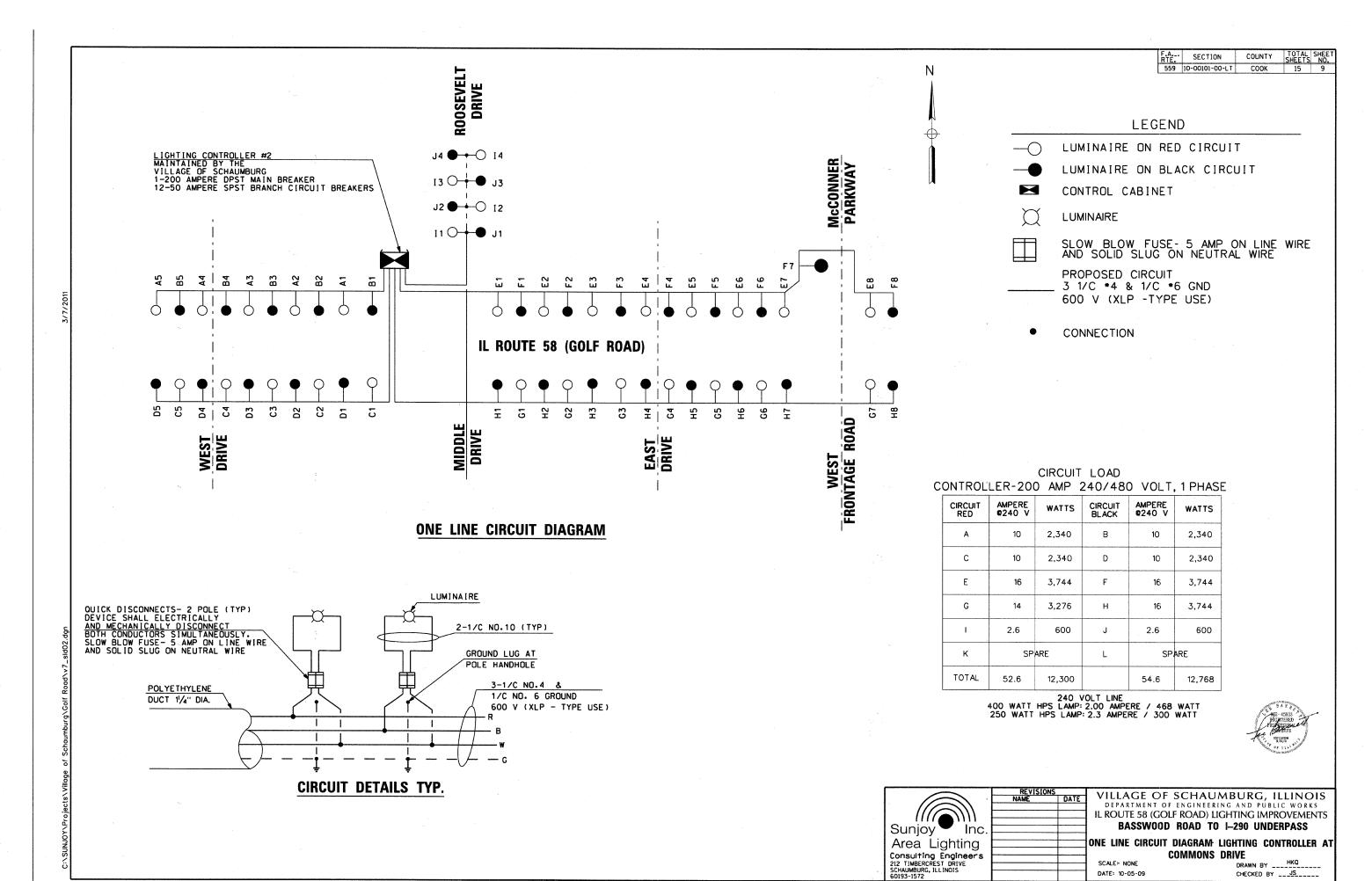




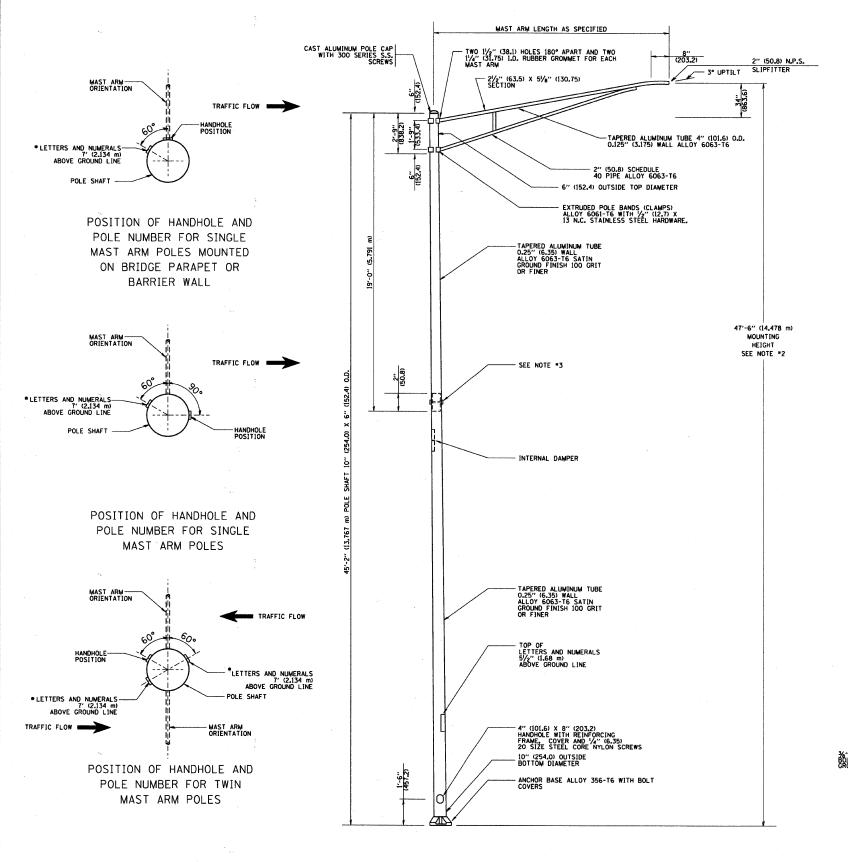


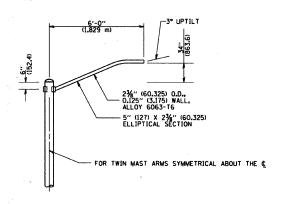






E-9 OF E-15





#### 6' (1.8 m) SINGLE MEMBER MAST ARM (N.T.S.)

- 1. ALL DIMENSIONS ARE IN INCHES (MILLIMETERS)
  UNLESS OTHERWISE SHOWN.
  2. MOUNTING HEIGHT IS DEFINED AS THE
  DISTANCE FROM THE CENTERLINE OF THE
  TENON TO THE BOTTOM OF THE ANCHOR BASE.
  3. TWO PICE SHAFT WILL BE MATCHED MARKED
  AND INTERCHANCEABLE BETWEEN DIFFERENT
  UNITS. FIELD DRILLING OF THE HOLES WILL
  NOT BE ALLOWED.

- NOT BE ALLOWED.

  4. THE LIGHT POLE WILL MEET AASHTO DESIGN CRITERIA AS SPECIFIED.

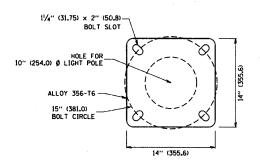
  5. THE INSTALLING CONTRACTOR WILL PROVIDE A UL LISTED GROUNDING CONNECTOR. BURNDY K2C23, T&B SPADL OR APPROVED COULL.

  6. LIGHT POLES WILL NOT BE INSTALLED WITHOUT MAST ARMS AND LUMINAIRES.

- MASI ATMS AND LUMINARIES.

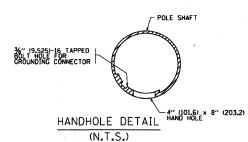
  7. LIGHT POLES WILL BE SET PLUMB ON THE FOUNDATION WITHOUT THE USE OF LEVELING NUTS, WASHERS OR SHIMS.

  8. LIGHTING UNIT IDENTIFICATION NUMBERS SHALL BE INSTALLED BEFORE THE LIGHTING UNIT IS ENERGIZED.

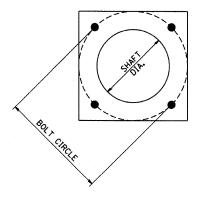


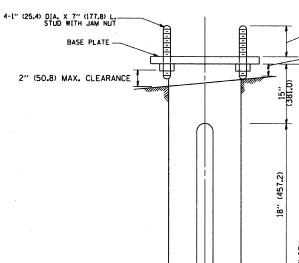
#### LIGHT POLE BASE PLATE DETAIL

15 INCH (381.0) BOLT CIRCLE



FILE NAME =	USER NAME = gaglianobt	DESIGNED -	REVISED - R. TOMSONS 09-06-00			ALUMINUM LIGHT POLE			COUNTY	TOTAL SHEE
W:\diststd\22x34\be400.dgn		DRAWN -	REVISED - R. TOMSONS 09-03-03	STATE OF ILLINOIS	1				соок	SHEETS NO.
	PLOT SCALE = 50.000 '/ IN.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION		47'-6" (14.478 m) MOUNTING HEIGHT		559 10-00101-00-LT BE-400		T NO. 63563
	PLOT DATE = 1/4/2008	DATE -	REVISED -		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS STA. TO STA.			CONTRACT N	



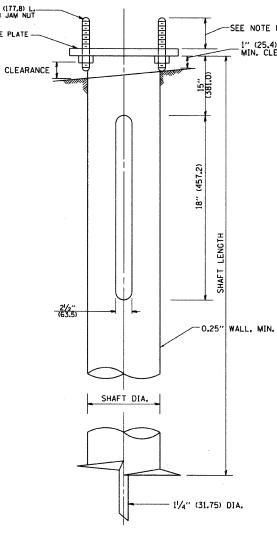


#### HELIX FOUNDATION SIZE

POLE MOUNTING HEIGHT	BOLT CIRCLE	SHAFT DIAMETER	SHAFT LENGTH	BASEPLATE
30 FT.	111/2"	85%**	6 FT.	12"×12"×1"
31 FT35 FT.	111/2"	85%"	6 FT.	12"×12"×1"
36 FT <sub>2</sub> -40FT.	15"	85%"	6 FT.	15"×15"×11/4"
41 FT45 FT.	15"	85%''	6 FT.	15"×15"×11/4"
46 FT50 FT.	15"	10′′	8 FT.	15"×15"×11/4"

#### METAL HELIX FOUNDATION MATERIALS

ITEM	MATERIAL REQUIREMENT
BASEPLATE	AASHTO M 270M, GRADE 36 (M270M, GRADE 250)
SHAFT	ASTM A 252, GRADE 2 (PHOSPHOROUS 0.04% MAXIMUM, SULFUR 0.05% MAXIMUM)
HELIX SCREW	AASHTO M 183 (ASTM A 635)
PILOT POINT	AASHTO M 270 (ASTM A 575)
ANCHOR RODS/STUDS	AASHTO M 314 (ASTM F 1554)
HEXAGON NUTS	AASHTO M 291M (ASTM A 563) GRADE DH, OR AASHTO M 292 (ASTM A 194) GRADE 2H
WASHERS	AASHTO M 293 (ASTM F 436)



#### NOTES:

- 1. ALL DIMENSION IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.
- 2. ALL MATERIAL SHALL BE GALVINIZED ACCORDING TO AASHTO M111, UNLESS OTHERWISE SPECIFIED.
- 3. ALL WELDS SHALL BE CONTINUOUS AND NOT LESS THAN 1/4" (6.35 mm) FILLET WELDS. THE WELDED FOUNDATION SHALL BE CAPABLE OF WITHSTANDING 10,000 FT/LBS (13558.18 n.m) OF INSTALLATION TORQUE APPLIED ABOUT THE AXIS OF THE FOUNDATION.
- 4. THE HELIX FOUNDATION SHAFT SHALL BE INSTALLED VERTICAL AND THE BASE PLATE SHALL BE IN LEVEL. THE BREAKAWAY COUPLINGS AND HARDWARE SHALL NOT BE USED TO ALIGN THE POLE INSTALLATION.
- 5. THE CABLE TRENCH SHALL BE BACKFILLED AND FIRMLY COMPACTED BEFORE THE INSTALLATION OF THE LIGHT POLE.
- 6. THE CONTRACTOR SHALL COORDINATE EXTENSION OF ANCHOR BOLTS ABOVE TOP OF THE BASE PLATE WITH THE BREAKAWAY DEVICE MANUFACTURER'S REQUIREMENTS.
- 7. ANY VOIDS WITHIN THE METAL FOUNDATION SHALL BE FILLED WITH FINE AGGREGATE.
- 8. METAL FOUNDATIONS SHALL BE INSTALLED IN UNDISTURBED SOIL. PREDRILLING A PILOT HOLE AND/OR BACKFILLING AROUND THE FOUNDTION IS NOT ALLOWED.
- 9. THE METAL FOUNDATION SHALL NOT BE INSTALLED TO A TORQUE WHICH EXCEEDS THE MANUFACTURER'S MAXIMUM TORQUE RATING NOR SHALL IT BE INSTALLED TO AN INSTALLATION TORQUE VALUE OF LESS THAN 3,500 FT LB (4,750 KNM). METAL FOUNDATIONS THAT ARE NOT INSTALLED TO FULL INSTALLATION DEPTH OR DO NOT ACHIEVE THE MINIMUM INSTALLATION TORQUE SHALL BE REMOVED AND REPLACED WITH A CONCRETE FOUNDATION AT NO ADDITIONAL COST.
- 10. THE BASEPLATE SHALL BE PERPENDICULAR TO THE SHAFT AXIS ( $\pm$  1 $^{\circ}$ ) AND THE HOLE CENTERLINE SHALL BE CONCENTRIC (± 0.188) TO THE SHAFT AXIS.
- 11. THE PILOT POINT AND SHAFT AXIS SHALL BE CONCENTRIC (± 0.125) AND IN LINE (± 2°).
- 12. THE BASEPLATE SHALL BE STAMPED WITH THE MANUFACTURERS NAME AND DATE OF MANUFACTURE.

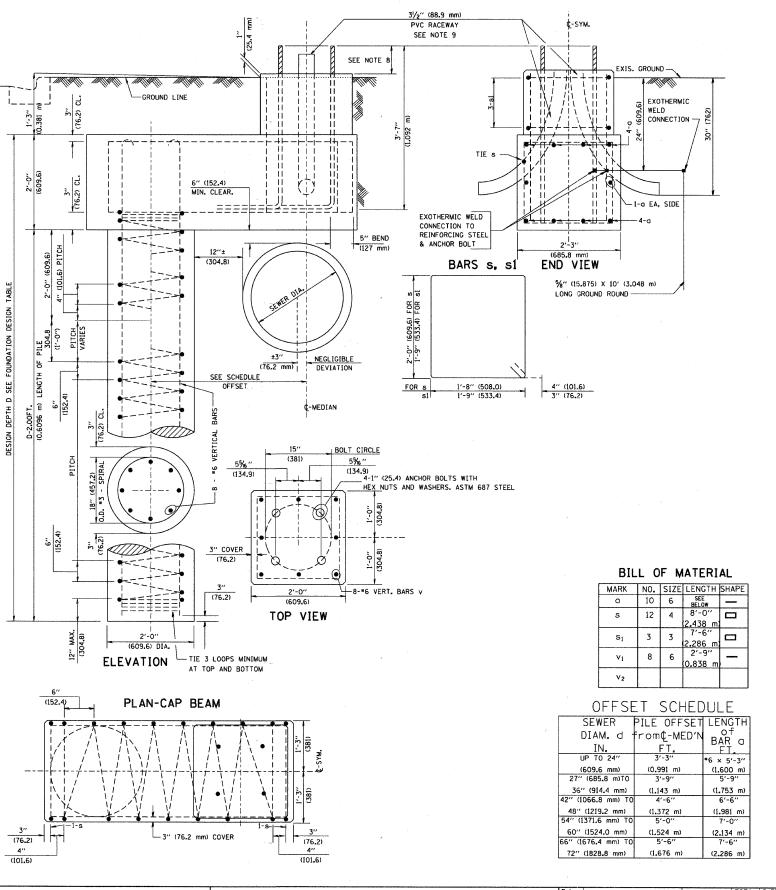
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W:\diststd\22x34\be305.dgn		DRAWN - DLB	REVISED -		LIGHT POLE FOUNDATION, METAL	Ŀ	RTE.	10 00101 00 LT		SHEETS	NO.
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#### FOUNDATION DESIGN TABLE

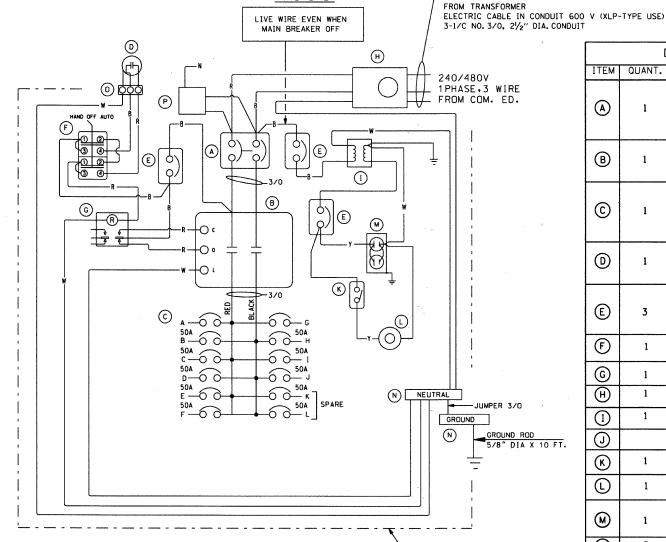
	DESIGN DEPTH (	OF FOUNDATION		REINFORCEMENT	IN FOUNDATION			
TYPE OF SOIL	SINGLE ARM	TWIN ARM	SINGLE	ARM	TWIN ARM			
	D	D	VERT BARS	SPIRAL	VERT BARS	SPIRAL		
SOFT CLAY	13'-0''	15'-0''	8-#6X12'-6''	#3X122′	8-#6X14'-3''	#3X141′		
	(3 <sub>-</sub> 962 m)	(4.572 m)	(3.810 m)	(37.186 m)	(4.343 m)	(42.977 m)		
MEDIUM CLAY	9'-6''	10′-9′′	8-#6X9'-0''	#3X90′	8-#6X10'-0''	#3X100′		
	(2 <b>.</b> 896 m)	(3.277 m)	(2.743 m)	(27.432 m)	(3.048 m)	(30.480 m)		
STIFF CLAY	7'-0''	8'-0''	8-#6X6'-6''	#3X66′	8-#6X7'-6''	#3X76'		
	(2 <b>.</b> 134 m)	(2.438 m)	(1.981 m)	(20.112 m)	(2.286 m)	(23.165 m)		
LOOSE SAND	9'-0''	10'-0''	8-#6X8'-6''	#3X85′	8-#6X9'-6''	#3X94'		
	(2.743 m)	(3.048 m)	(2.591 m)	(25,908 m)	(2.896 m)	(28.651 m)		
MEDIUM SAND	8'-3''	9′-0′′	8-#6X8'-0''	#3X78′	8-#6X8'-6''	#3X85′		
	(2.515 m)	(2.743 m)	(2.438 m)	(23.774 m)	(2.591 m)	(25.908 m)		
DENSE SAND	7'-9''	9'-0''	8-#6X7'-6''	#3X73′	8-#6X8'-6''	#3X85′		
	(2 <b>.</b> 362 m)	(2.743 m)	(2.286 m)	(22.250 m)	(2.591 m)	(25.908 m)		
ROCK OR SOLIDIFIED SLAG	5′-0′′ (1.524 m)	5′-0′′ (1.524 m)	NONE	NONE	NONE	NONE		

#### NOTES

- 1. ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.
- THE ENGINEER SHALL DETERMINE THE CLASS OF SOIL DURING EXCAVATION AND SELECT THE DESIGN DEPTH OF FOUNDATION FROM THE DESIGN TABLE.
- 3. EXCAVATION OF THE POLE FOUNDATION SHALL BE MADE WITH AN AUGER, 24" (609.6 mm) OR 30" (762.0 mm) IN DIAMETER.
- 4. 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 ENGINEER.
- 5. THE ANCHOR BOLTS AND RACEWAYS SHALL BE PROPERLY SECURED IN PLACE BEFORE THE CONCRETE IS PLACED IN THE FORM.
- 6. 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.
- 7. THE CONTRACTOR SHALL COORDINATE EXTENSION OF ANCHOR BOLTS ABOVE TOP OF FOUNDATION WITH THE BREAKAWAY DEVICE MANUFACTURER'S REQUIREMENTS. IF LIGHT POLE IS MOUNTED WITHOUT BREAKAWAY DEVICE, ANCHOR BOLTS SHALL PROJECT 23/4" (69.9 mm) ABOVE TOP OF THE FOUNDATION. THE CONTRACTOR SHALL CONFIRM ANCHOR BOLT EXTENTION WITH ENGINEER.
- 8. RACEWAYS SHALL PROJECT 1" (25.4 mm) ABOVE THE TOP OF THE FOUNDATION.
- 9. THE CABLE TRENCH SHALL BE BACKFILLED AND FIRMLY COMPACTED BEFORE THE LIGHT IS ERECTED.



FILE NAME =	USER NAME = bouerdl	DESIGNED -	REVISED - 06-16-08 R. TOMSONS		LIGHT POLE FOUNDATION OFFSET	F.A.	SECTION	COUNTY TOTAL	AL SHEET
K:\diststd22x34\be310.dgn		DRAWN -	REVISED -	STATE OF ILLINOIS	40' (12.192 m) TO 47 1/2 ' (14.478 m) M.H.	559 1	1 -00101-00-LT	SMEET	- 10
	PLOT SCALE = 50.000 ' / IN.	CHECKED ~	REVISED -	DEPARTMENT OF TRANSPORTATION	15" (381 mm) BOLT CIRCLE	1000	BE-310	CONTRACT NO. 6	
	PLOT DATE = 6/16/2008	DATE -	REVISED -		SCALE: SHEET NO. 1 OF 1 SHEETS STA. TO STA.	<b> </b>	DE-310		30000



NAME PLATE

ITEM QUANT. DESCRIPTION CIRCUIT BREAKER, MOLDED CASE, THERMAL MAGNETIC, 2-POLE, 600V. A.C., 225A, FRAME, 200A. NON-INTERCHANGABLE TRIP, BOLT-ON TYPE; INTERUPTING CAPACITY OF NOT LESS (A) THAN THAN 22,000 RMS SYMMETRICAL AMPERES AT 480V. LIGHTING CONTACTOR (REMOTE CONTROL SWITCH) MECHANICALLY
HELD, ASCO OR EQUAL 920, MOUNTED ON SUB PANEL **B** 200A., 2P., 600V. WITH 240V. COIL. PANELBOARD(INTERIOR ONLY) 480/240V. SINGLE PHASE WITH 200A. COPPER MAINS AND TWELVE IP-50A BOLT-ON BRANCH BREAKERS EACH RATED 277V. WITH INTERUPTING CAPAC-**©** ITY OF NOT LESS THAN 14,000 RMS SYMME-TRICAL AMPERES AT 277V. PHOTOCELL MOUNTED IN CABINET OVERHANG-240 VOLT. CALIBRATED (D) FOR A "TURN-ON SETTING OF .05 TO 2.1 FC. CIRCUIT BREAKER, MOLDED CASE, THERMAL MAGNETIC, 1-POLE, 277V., BOLT-ON TYPE, 15 AMP WITH AN INTERUPTING RATING OF NOT LESS E 3 THAN 14,000 RMS SYMMETRICAL AMPERES AT MANUAL-OFF-AUTO € 3-POSITION SWITCH (G) CONTROL RELAY 240 VOLT COIL (H)SOCKET FOR ELECTRIC UTILITY CO. METER. STEP DOWN TRANSFORMER 240x480/120x240V, 1.5KVA. MICRO SWITCH, 20A (MOUNT WITH ACTUATOR TO (K) 1 SWITCH WHEN DOOR OPENED) 60 WATT, 120V LIGHT FIXTURE, VAPORTIGHT, WITH GLOBE AND GUARD AND MOUNTING BOX. (L) GFI RECEPTACLE, 120V., 15A., PREMIUM SPEC. GRADE. NEMA REFERENCE 5-15R IN WEATHER-PROOF BOX WITH FLAP-TYPE COVER. M COPPER GROUND AND NEUTRAL BUS 1/4"x1"x12" MIN. SIZE WITH LUGS PLUS 4 SPARE LUGS. (N)2  $\odot$ 1 SURGE ARRESTOR,480/240 VOLT, 3 WIRE

SECTION

559 10-00101-00-LT

DEVICE SCHEDULE

COUNTY

COOK

TOTAL SHEE

NOTES

THE CABINET SHALL BE FABRICATED FROM 0.125" THICK ALUMINUM ALLOY SHEET AND SHALL BE REINFORCED WITH ALUMINUM ANGLES. THE CABINET DOOR SHALL BE NEMA TYPE 3 CONSTRUCTION WITH NEOPRENE GASKET. THE DOOR SHALL HAVE STAINLESS STEEL HINGES AND THREE POINT LOCKING SYSTEM.

THE CONTRACTOR SHALL REMOVE VEGITATION AND TOPSOIL, LEVEL THE AREA IN FRONT OF THE CONTROL CABINET DOOR AND PLACE LENGTH WISE, PARALLEL TO CONTROL CABINET, A PRECAST PAD, 48"×48"×4" MINIMUM SIZE. THE COST OF LABOR AND MATERIALS SHALL BE INCIDENTAL TO THE CONTROL CABINET.

CONTROL WIRE SHALL BE #12 AWG, 600V, TYPE "SIS" STRANDED COPPER GRAY SWITCH BOARD WIRE. THE ENDS OF ALL CONTROL WIRES SHALL BE IDENTIFIED.

ALL CONTROL CABINET ITEMS SHALL HAVE SUITABLE IDENTIFICATION. OPEN CIRCUIT BREAKERS, CONTACTORS AND OTHER OPEN DEVICES SHALL HAVE PERMANENT SELF STICKING TAGS. DEVICES IN ENCLOSURES SHALL HAVE ENGRAVED 2-COLOR LAMINATED PLASTIC NAMEPLATES ATTACHED TO ENCLOSURES WITH SCREWS. NAMEPLATES SHALL BE ENGRAVED TO CORRESPOND TO DESIGNATIONS ON THE DRAWINGS. INTERNAL CABINET WIRING SHALL BE IDENTIFIED AS INDICATED OR AS DIRECTED BY THE ENGINEER BY MEANS OF SELF-STICKING TAGS APPLIED AT EACH CONNECTED END, IDENTIFICATION SHALL BE MADE BY THE CABINET MANUFACTURE.

ALL WIRING WITHIN THE CABINET SHALL BE COLOR
CODED AS INDICATED.
R = RED BL = BLUE W = WHITE

R = RED BL = BLUE W = WHITE B = BLACK Y = YELLOW G = GREEN PROVIDE SEALING GROMMETS FOR ALL OPEN WIRING EXTENDED FROM DEVICES IN BOXES OR CABINETS WITHIN THE CONTROL CABINET.

ALL 120 VOLT SYSTEM CONTROL WIRING SHALL BE #12 AWG STRANDED UNLESS OTHERWISE INDICATED.

THE CABINET SHALL BE PRIMED AND PAINTED IN GREEN COLOR.

THE HEADS OF CONNECTOR SCREWS SHALL BE PAINTED WHITE FOR NEUTRAL BUSS CONNECTION AND GREEN FOR GROUND BUSS CONNECTORS.

PROVIDE SEALING GROMMETS FOR ALL OPEN WIRING EXTENDED FROM DEVICES IN BOXES WITHIN THE CONTROL CABINET.

ALL WIRING SHALL BE NEATLY DRESSED AND SUPPORTED.

THE CONTROLLER SHALL BE CONSTRUCTED TO U.L. STD. 508 AND BEAR THE U.L. LABEL "ENCLOSED INDUSTRIAL CONTROL PANE"."

PROVIDE A HOLDER AND WATERPROOF POUCH ON THE INNER SIDE OF THE CONTROLLER DOOR. THE HOLDER AND POUCH SHALL BE MOUNTED SO THAT RAIN WATER OR CONDENSED WATER CANNOT ENTER THE POUCH WITH THE CABINET DOOR OPEN. FURNISH THE APPROVED COPY OF THE "CONTROL CABINET WIRING DIAGRAM".

PANEL WIRING
200 AMPERE- 240/480 VOLT, 1 PHASE-3 WIRE
PHOTOCELL CONTROL

PHOTOCELL MOUNTED IN CABINET OVERHANG

CABINET OVERHANG

ALL POWER WIRING SHALL BE RHH RHW ALL CONTROL WIRING SHALL BE #12 MTW

> BL = BLUE W = WHITE

B = BLACK R = RED

Y = YELLOW

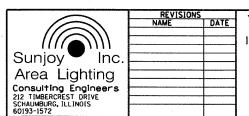


PHOTOCELL IN CABINET

OVERHANG DETAIL

NOT TO SCALE

-PIGTAIL CABLES



PANEL BOARD

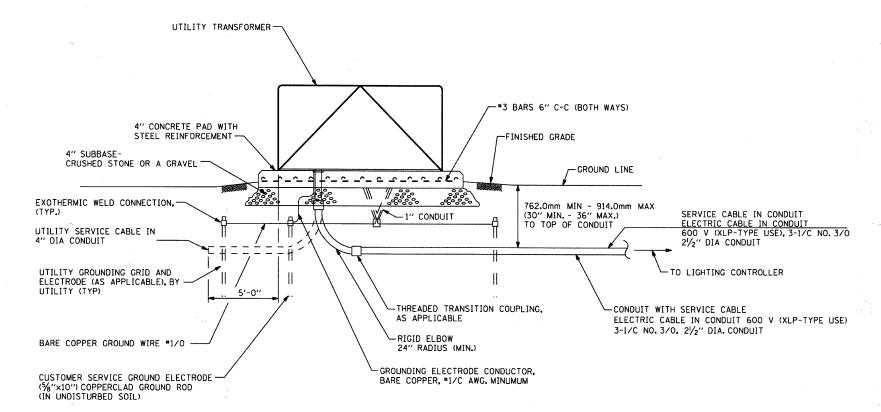
SERVICE CABLE IN CONDUIT

VILLAGE OF SCHAUMBURG, ILLINOIS
DEPARTMENT OF ENGINEERING AND PUBLIC WORKS
IL ROUTE 58 (GOLF ROAD) LIGHTING IMPROVEMENTS

BASSWOOD ROAD TO I-290 UNDERPASS LIGHTING CONTROLLER, SPECIAL 200 AMP, 240/480 VOLT, 1 PHASE, 3 WIRE WITH PHOTOCELL CONTROL

SCALE:NONE
DATE: 10-05-09

CHECKED BY \_\_JS



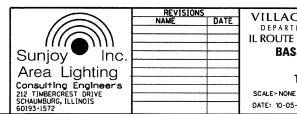
PROPOSED SERVICE INSTALLATION WITH TRANSFORMER FOUNDATION DETAIL

TRANSFORMER - PAD MOUNTED

#### NOTES:

- THE PAY ITEM "ELECTRIC UTILITY SERVICE CONNECTION" SHALL CONSIST OF PAYMENT FOR WORK PERFORMED BY THE ELECTRIC UTILITY COMPANY IN PROVIDING OR MODIFYING ELECTRIC SERVICE AS INDICATED.
- 2. THE PAY ITEM- "ELECTRIC SERVICE INSTALLATION"
  SHALL CONSIST OF ALL MATERIAL AND LABOR REQUIRED
  TO EXTEND. CONNECT OR MODIFY THE ELECTRIC SERVICE
  AS INDICATED OR SPECIFIED. WHICH IS OVER AND ABOVE
  THE WORK PERFORMED BY UTILITY COMPONY. THE SERVICE
  METER SOCKET. AS APPLICABLE. MOUNTED ELSEWHERE.
  SHALL BE INCLUDED IN THIS PAY ITEM.
- 3. SERVICE VOLTAGE SHALL BE AS INDICATED ELSEWHERE IN THE PROJECT DRAWINGS.
- 4. ELECTRIC SERVICE SPAN BETWEEN THE CONTROLLER AND UTILITY TRANSFORMER SHALL NOT EXCEED 250 FEET.
- 5. CONDUIT FOR SERVICE CABLE:
- 5.1 CONDIUT DIAMETER AND CONDUIT FITTINGS SHALL BE SIZED WITH WIRE GAUGE AND MAXIMUM NUMBER OF CONDUCTORS PERMITED BY NEC.
- 5.2 CONDUIT FOR SERVICE CABLE SHALL BE AS INDICATED AND SHALL BE MEASURED SEPARATELY FOR PAYMENT.
- 5.3 PVC COATED GALVANIZED STEET CONDUIT AND CONDUIT FITTINGS OF THE SAME TYPE SHALL BE CAREFULLY INSTALLED WITH MANUFACTURER'S RECOMMENDED TOOLS AND PROCEDURES. DAMAGE TO CONDUIT 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.
- 5.4 THE COUPLING (CONDUIT FITTING) SHALL BE A METALIC TO NON-METALIC ADAPTER BETWEEN STEEL CONDUIT AND PVC CONDUIT.
- 5.5 CONCRETE COVER OVER THE ENCASED RACEWAY RUN SHALL BE A MINIMUM 3 INCH ALL AROUND.
- 6. PLANS AND DETAILS INDICATE THE GENERAL NATURE AND REQUIREMENTS OF THE UTILITY SERVICE WITHOUT EVERY ACCESSORY AND ATTACHMENT. THE CONTRACTOR IS OBLIGED TO COMPLY WITH THE REQUIREMENTS OF THE UTILITY COMPANY. THE CONTRACTOR SHALL COORDINATE IN FURNISHING ALL MATERIAL AND WORK NOT PROVIDED BY THE UTILITY FOR COMPLETING ELECTRIC SERVICE INSTALLATION.
- 7. THE CONTRACTOR SHALL OBTAIN INSPECTION AND APPROVAL BY THE ENGINEER AND UTILITY COMPANY BEFORE BACKFILL AND/OR ENCLOSING ELECTRIC SERVICE INSTALLATION.



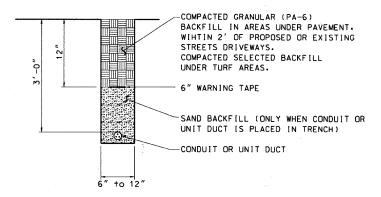


VILLAGE OF SCHAUMBURG, ILLINOIS
DEPARTMENT OF ENGINEERING AND PUBLIC WORKS
IL ROUTE 58 (GOLF ROAD) LIGHTING IMPROVEMENTS

BASSWOOD ROAD TO 1-290 UNDERPASS ELECTRIC SERVICE INSTALLATION TRANSFORMER MOUNTED ON PAD

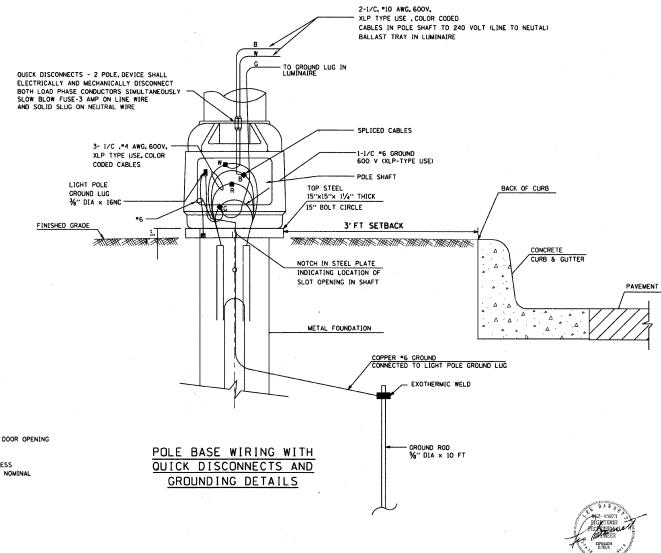
DATE: 10-05-09

# SPLICING ELECTRIC CABLE

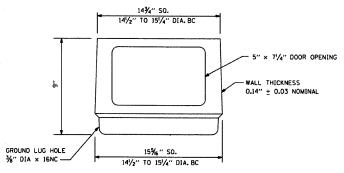


#### CIRCUIT CABLE:

ALL ELECTRIC CABLE SHALL BE 600 V (XLP-TYPE USE), FULLY PIGMENTED COLOR CODED. COLOR CODE SHALL BE-BLACK/RED PHASE WIRE WHITE NEUTRAL WIRE GREEN GROUND WIRE



#### TRENCH AND BACKFILL



#### BREAKWAY TRANSFORMER DETAILS

NOTE:

MATERIAL SHALL CONFORM TO ASTM DESIGNATION: BIOS ALLOY 356-T6

BASE CONFORMS TO BREAKAWAY CRITERIA OF AASHTO STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES AND TRAFFIC SIGNALS (1985) THIS DRAWING IS THE EXCLUSIVE PROPERTY OF SUNJOY INC, AND IS PROVIDED ONLY FOR THE PROJECT LISTED ON THIS DWAWING, THIS DRAWING SHALL NOT BE DUPLICATED, USED OR DISCLOSED, IN WHOLE OR IN PART, FOR ANY PURPOSE WHATSOEVER THE WRITTEN PERMISSION OF SUNJOY INC.

