INDEX OF SHEET SHEET NO DESCRIPTION TITLE SHEET **SUMMARY OF QUANTITIES** STANDARD TRAFFIC SIGNAL DESIGN DETAILS (4-SHEETS) EXISTING CABLE PLAN, EXISTING PHASE DESIGNATION DIAGRAM TRAFFIC SIGNAL REMOVAL PLAN ILLINOIS ROUTE 72 AT RANDALL ROAD TRAFFIC SIGNAL MODIFICATION PLAN ILLINOIS ROUTE 72 AT RANDALL ROAD CABLE PLAN MODIFICATION, PHASE DESIGNATION DIAGRAM, AND SCHEDULE OF QUANTITIES ILL. RTE. 72 AT RANDALL ROAD LIGHTING LEGEND AND GENERAL NOTES LIGHTING PLAN MODIFICATION, TEMPORARY WIRING 12

LIGHTING PLAN MODIFICATION, PERMANENT WIRING

SINGLE LINE DIAGRAM, TEMPORARY WIRING, LIGHTING CONTROLLER "KT SINGLE LINE DIAGRAM, PERMANENT WIRING, LIGHTING CONTROLLER "KT" STATE OF ILLINOIS

DEPARTMENT OF TRANSPORTATION

DIVISION OF HIGHWAYS

PLANS FOR PROPOSED FEDERAL AID HIGHWAY

PROFILE HORIZ. NA PROFILE VERT. N/A CROSS SECTIONS N/A

DISTRICT 1

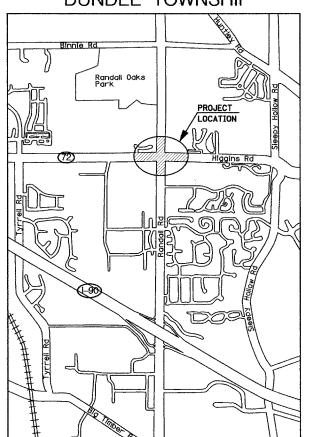
Traffic Signal Modifications Plans For F.A.P. Route 341 – Illinois Route 72 (Higgins Road) at County Highway 34 (Randall Road)

PROJECT: ACHSIP - 0341 (042)

Section: 2007-059 L

Contract: 60D98 C-91-147-08 Kane County

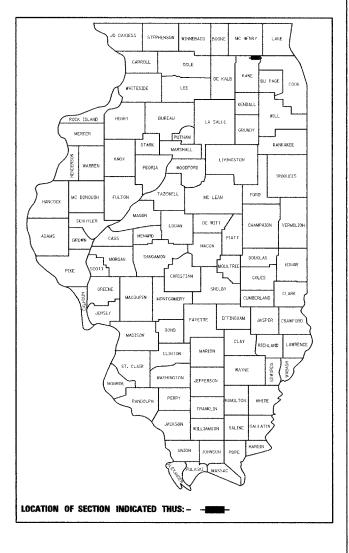
DUNDEE TOWNSHIP

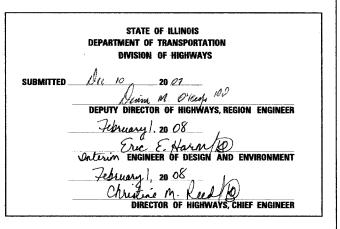




On . Snothi Dec. 10, 2507. EXP. NOV. 30, 2009.







PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

STANDARD DRAWINGS (701006)°(701011)°(7011012)°(7013013°(701901) 424001 (720001) 813001 814001 814006 (857001) 877001 877006 (877011) 03 (878001)⁰ 880001 (880006) 886001 606001 (862001) 880001 701201 701316 701321

LIGHTING STANDARDS

701406 (701601) (701421)⁰¹ 701501 701502 701701 701801

NOTE: STANDARD DRAWINGS REQUIRED (CIRCLED)

PREPARED BY: Stan Tourin TRAFFIC ENGINEER DATE GROSS LENGTH= 1,898 FEET = 0.359 MILES NET LENGTH = 1,898 FEET = 0.359 MILES

CONTRACT NO. 60D98

13

KANE COUNTY SECTION NUMBER 2007-059 L F.A.P. ROUTE 341

	IDOT			TOTAL	 ILL. RTE. 72
	PAY ITEM NUMBER	DESIGNATION	UNIT	TOTAL QUANTITIES	
	70100310	TRAFFIC CONTROL AND PROTECTION, STANDARD 701421	L SUM	1	1
	70102630	TRAFFIC CONTROL AND PROTECTION, STANDARD 701601	L SUM	1	1
	70102635	TRAFFIC CONTROL AND PROTECTION, STANDARD 701701	L SUM	1	1
	72000100	SIGN PANEL - TYPE 1	SQ FT	40	40
+	72400310	REMOVE SIGN PANEL - TYPE 1	SQ FT	73	73
*	72400710	RELOCATE SIGN PANEL - TYPE 1	SQ FT	53	53
-	81000700	CONDUIT IN TRENCH, 21/2" DIA., GALVANIZED STEEL	FOOT	126	126
	81900200	TRENCH AND BACKFILL FOR ELECTRICAL WORK	FOOT	1206	1206
	85000200	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1	1
.	87301225	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	1101	1101
	87301245	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	2294	2294
	87301255	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	937	937
	87702970	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 48 FT.	EACH	1	1
	87702980	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 50 FT.	EACH	2	2
-	87702985	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 52 FT.	EACH	1	1
	87800415	CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	60	60
F	87900200	DRILL EXISTING HANDHOLE	EACH	4	4
\vdash	88030020	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	9	9
-	88030050	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	3	3
F	88030110	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EACH	3	3
	88030240	SIGNAL HEAD, LED, 2-FACE, 1-3 SECTION, 1-5 SECTION, BRACKET MOUNTED	EACH	1	1
-	88200100	TRAFFIC SIGNAL BACKPLATE	EACH	12	12
. -	88700200	LIGHT DETECTOR	EACH	4	4
. -	88700300	LIGHT DETECTOR AMPLIFIER	EACH	1	1
-	89502200	MODIFY EXISTING CONTROLLER	EACH	1	1
-	89502300	REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	1966	1966
	89502375	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1	1
-	89502315	REMOVE EXISTING TRAFFIC SIGNAL EQUIFMENT REMOVE EXISTING CONCRETE FOUNDATION	EACH	4	4
-	X0322256	TEMPORARY INFORMATION SIGNING	SQ FT	102.8	102.8
-	X8620020	UNINTERRUPTABLE POWER SUPPLY	EACH	1	1
. -	X8730250	ELECTRIC CABLE IN CONDUIT NO. 20 3/C, TWISTED, SHIELDED	FOOT	1101	1101
` -	81800330	AERIAL CABLE, 3-1/C NO. 6 WITH MESSENGER WIRE	-	 	
H	82102400	LUMINAIRE, SODIUM VAPOR, HORIZONTAL MOUNT, 400 WATT	FOOT	542	542
F	83050810	LIGHT POLE, ALUMINUM, 47.5 FT. M.H., 15 FT. MAST ARM	EACH	2	2
F	83057310	LIGHT POLE, WOOD, 55 FOOT, CLASS 4	EACH	2	2
-	83600200	LIGHT POLE, WOOD, 35 POOT, CLASS 4 LIGHT POLE FOUNDATION, 24" DIAMETER	EACH	1	1
\vdash	83800205	BREAKAWAY DEVICE, TRANSFORMER BASE, 15 INCH BOLT CIRCLE	FOOT	20	20
-	X0323574	MAINTENANCE OF LIGHTING SYSTEM	EACH	2	2
 	X0323314 X0324387	LUMINAIRE SAFETY CABLE ASSEMBLY	CAL MO	T	2
<u> </u>	X0324387 X0329858	REMOVE AND REINSTALL LUMINAIRE	EACH	6	6
-	X8160350	UNIT DUCT, WITH 3-1/C NO. 6 AND 1/C NO. 8 GROUND, 600V (EPR-TYPE RHW), 11/4" DIA., POLYETHYLENE	EACH	4	4
-	XX006937	GROUND ROD, 5/8" DIA. X 10 FT.	FOOT	1585	1585
L	67100100	GROUND ROD, 98° DIA. X 10 F1. MOBILIZATION	L SUM] 2	2

FILE NAME =	USER NAME = RDP	DESIGNED - PKG/RDP	REVISED -
ji\projects\projects 2007\ill.rte_72_randall_rd\02_Summary_of_Quentities.dgn	DRAWN - MAA/RDP	REVISED -	
PLOT SCALE = 20.0000 '/ IN.	CHECKED - PKG	REVISED -	
PLOT DATE = 12/11/2007	DATE - 12-06-2007	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

** SPECIALTY ITEMS

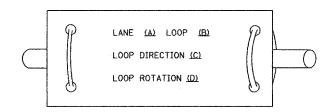
SUMMARY OF QUANTITIES
ILLINOIS ROUTE 72 (HIGGINS ROAD) AT
RANDALL ROAD

SCALE: NONE SHEET NO. OF SHEETS STA. TO STA.

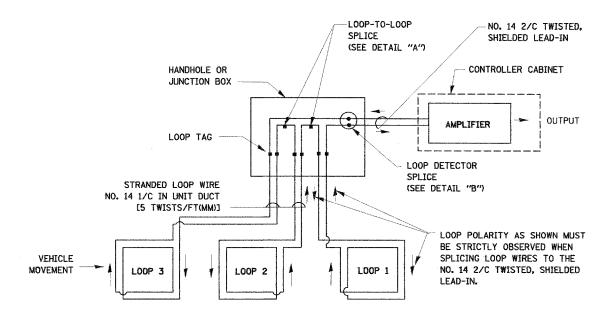
LOOP DETECTOR NOTES

- EACH PAIR OF LOOP WIRES SHALL BE PLACED IN A SEPARATE UNIT DUCT FROM THE EDGE OF PAVEMENT TO THE HANDHOLE. SPACING BETWEEN THE HOLES DRILLED IN THE PAVEMENT SHALL NOT BE LESS THAN 6" (150 mm). UNIT DUCT SHALL BE INCLUDED IN THE COST OF THE LOOP WIRE.
- 2. THE NUMBER OF LOOP TURNS SHALL BE AS RECOMMENDED BY THE AMPLIFIER MANUFACTURER. ALL ADJACENT SIDES OF THE LOOPS SHALL BE INSTALLED IN SUCH A WAY THAT THE CURRENT FLOW IS IN THE SAME DIRECTION TO REINFORCE ITS MAGNETIC FIELDS FOR SMALL VEHICLE DETECTION.
- 3. EACH LOOP LEAD-IN SHALL BE IDENTIFIED AND PERMANENTLY TAGGED IN THE HANDHOLE. EACH LEAD-IN CABLE TAG SHALL INDICATE THE LOCATION OF THE LOOP, LOOP ROTATION (CLOCKWISE/COUNTERCLOCKWISE), LOOP LEAD-IN DIRECTION (IN OR OUT), LOOP CABLE NUMBER AND LOCATION IN CABINET, AND NUMBER OF TURNS IN THE DETECTOR LOOPS IN WATER PROOF INK AS INDICATED ON THE DISTRICT 1 STANDARD TRAFFIC SIGNAL DESIGN DETAIL. THE CONTRACTOR SHALL MARK LOOP LOCATIONS ON RECORD DRAWINGS AND PRESENT TO THE ENGINEER AFTER FINAL INSPECTION. LOOPS SHALL BE MARKED BY LANE AND LOOP NUMBER. SEE DETAIL BELOW.
- 4. ALL LOOP CABLE SHALL BE FASTENED WITH PLASTIC TIE WRAP TO THE HANDHOLE HOOKS.
- 5. IN ASPHALT PAVEMENT, LOOPS SHOULD BE PLACED IN THE BINDER AND DIVEHOLES MARKED AT THE CURB WITH A SAW-CUT. THE SAW-CUT SHALL BE CUT IN ACCORDANCE WITH LOCAL AND E.P.A. DUST CONTROL REQUIREMENTS. DETECTOR LOOP(S) SHALL NOT BE INSTALLED IN WET CONDITIONS AND THE SAW-CUTS MUST BE FREE OF DEBRIS AND RESIDUE SUCH AS DUST AND WATER WHICH IS TO BE ACHIEVED BY THE USE OF COMPRESSED AIR, WIRE BRUSHING AND HEAT DRYING ACCORDING TO SEALANT MANUFACTURER REQUIREMENTS. THE DETECTOR WIRE SHALL BE HELD IN PLACE BY THE USE OF FORM WEDGES. WEDGES SHALL BE SPACED NO MORE THAN 18" (450 mm) APART.
- 6. LOOP SPLICES SHALL BE SOLDERED USING A SOLDERING IRON. BLOW TORCHES OR OTHER DEVICES WHICH OXIDIZE COPPER CABLE SHALL NOT BE ALLOWED FOR SOLDERING OPERATIONS. SEE DETAIL BELOW RIGHT.
- 7. PREFORMED DETECTOR LOOPS SHALL BE USED, AS SHOWN ON THE PLANS, WHERE NEW CONCRETE PAVEMENT IS PROPOSED. THE INSTALLATION OF PREFORMED LOOPS SHALL BE IN ACCORDANCE WITH THE DISTRICT 1 SPECIFICATIONS OR AS DIRECTED BY THE ENGINEER.

LOOP LEAD-IN CABLE TAG

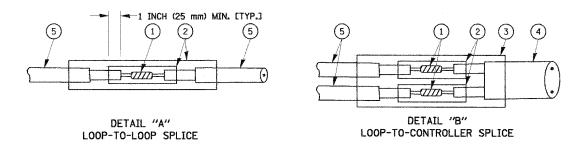


- A. LANE 1 IS THE LANE CLOSEST TO THE CENTERLINE OF THE ROADWAY
- B. LOOP *1 IS THE LOOP IN THE LANE CLOSEST TO THE INTERSECTION.
- C. LABEL LOOP CABLE "IN" OR LOOP CABLE "OUT".
- D. LABEL LOOP CABLE CLOCKWISE OR LOOP CABLE COUNTERCLOCKWISE.



DETECTOR LOOP WIRING SCHEMATIC

- LOOPS SHALL BE SPLICED IN SERIES.
- * SAW-CUTS SHALL BE A MINIMUM WIDTH OF 5/16" (8 mm).
- SAW-CUT DEPTHS SHALL BE 3" (75 mm). IF IN CONCRETE, THE SAW-CUT DEPTH SHALL BE TO THE TOP OF THE REINFORCEMENT.
- * LOOP CORNERS SHALL BE DRILLED WITH A 2" (50 mm) DIAMETER CORE.



LOOP DETECTOR SPLICE

- 1 WESTERN UNION SPLICE SOLDERED WITH ROSIN CORE FLUX. ALL EXPOSED SURFACES OF THE SOLDER SHALL BE SMOOTH.
- (2) WCSMW 30/100 HEAT SHRINK TUBE, MINIMUM LENGTH 3" (75 mm), UNDERWATER GRADE.
- (3) WCS 200/750 HEAT SHRINK TUBE, MINIMUM LENGHT 6" (150 mm), UNDERWATER GRADE.
- (4) NO. 14 2/C TWISTED, SHIELDED CABLE.
- (5) LOOP CONDUCTOR WITH FLEXIBLE PLASTIC TUBE.

SHEET 1 OF 4

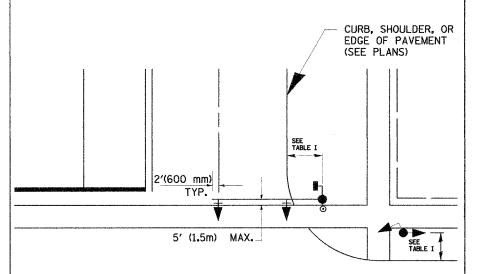
FILE NAME =	USER NAME = #USER\$	DESIGNED - DAD	REVISED -
\$FILEL\$		DRAWN - RWP	REVISED -
	PLOT SCALE = #SCALE#	CHECKED - DAZ	REVISED -
	PLOT DATE = \$DATE\$	DATE - 1-01-02	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

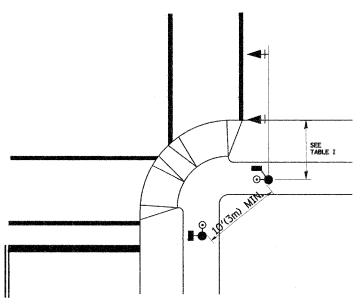
DISTRICT ONE	F.A RTE.	SECTION	COUNTY	TOTAL	SHEET NO.		
STANDARD TRAFFIC SIGNA	341	2007-059 L	KANE	21	03		
DESIGN DETAILS					CONTRACT	NO. 6	OD98
SCALE: NONE SHEET NO. OF SHEETS	STA.	TO STA.	FED. RO	DAD DIST. NO. 1 ILLINOIS FED. AI	D PROJECT		

TRAFFIC SIGNAL MAST ARM AND POST

MAST ARM MOUNTED SIGNAL IN PROPOSED & FUTURE SIDEWALK AREA. INTERSECTION SHOWN WITH PEDESTRIAN SIGNAL AND PUSHBUTTON DETECTOR



PEDESTRIAN SIGNAL PUSHBUTTON



RECOMMENDED PUSHBUTTON LOCATIONS FOR ACCESSIBLE PEDESTRIAN SIGNALS SHALL BE IN ACCORDANCE WITH THE CURRENT MUTCD (SEE NOTE 1). TO MEET MUTCD REQUIREMENTS, PEDESTRIAN SIGNAL PUSHBUTTONS MAY HAVE TO BE MOUNTED ON A SEPARATE POST.

NOTES:

 AT ACCESSIBLE PEDESTRIAN SIGNAL LOCATIONS WITH PEDESTRIAN ACTUATION. EACH PUSHBUTTON SHALL ACTIVATE BOTH THE WALK INTERVAL AND THE ACCESSIBLE PEDESTRIAN SIGNALS.

AT ACCESSIBLE PEDESTRIAN SIGNAL LOCATIONS, PUSHBUTTONS SHOULD CLEARLY INDICATE WHICH CROSSWALK SIGNAL IS ACTUATED BY EACH PUSHBUTTON. PUSHBUTTONS AND TACTILE ARROWS SHOULD HAVE HIGH VISUAL CONTRAST (SEE THE DEPARTMENT OF JUSTICE'S AMERICANS WITH DISABILITIES ACT STANDARDS FOR ACCESSIBLE DESIGN, 1991). TACTILE ARROWS SHOULD POINT IN THE SAME DIRECTION AS THE ASSOCIATED CROSSWALK. AT CORNERS OF SIGNALIZED LOCATIONS WITH ACCESSIBLE PEDESTRIAN SIGNALS WHERE PEDESTRIAN PUSHBUTTONS ARE PROVIDED, THE PUSHBUTTONS SHOULD BE SEPARATED BY THE DISTANCE OF AT LEAST 10 FT (3m). THIS ENABLES PEDESTRIANS WHO HAVE VISUAL DISABILITIES TO DISTINGUISH AND LOCATE THE APPROPRIATE PUSHBUTTON.

PUSHBUTTONS FOR ACCESSIBLE PEDESTRIAN SIGNALS SHOULD BE LOCATED AS FOLLOWS:

- A: ADJACENT TO A LEVEL ALL-WEATHER SURFACE TO PROVIDE ACCESS FROM A WHEELCHAIR, AND WHERE THERE IS AN ALL WEATHER SURFACE, WHEELCHAIR ACCESSIBLE ROUTE TO THE RAMP.
- B: WITHIN 5 FT (1.5m) OF THE CROSSWALK EXTENDED.
- C: WITHIN 10 FT (3m) OF THE EDGE OF CURB, SHOULDER, OR PAVEMENT.
- D: PARALLEL TO THE CROSSWALK TO BE USED (SEE MUTCD FIGURE 4E-2).
- E: NORMAL PEDESTRIAN PUSHBUTTON MOUNTING HEIGHT SHOULD BE 3.5 FT (1.05m) ABOVE ADJACENT SIDEWALK
- 2. PEDESTRIAN SIGNAL FACES SHALL BE MOUNTED WITH THE BOTTOM OF THE HOUSING NOT LESS THAN 8 FT (2.4m) NOR MORE THAN 10 FT (3.0m) ABOVE THE SIDEWALK LEVEL AND SO THERE IS A PEDESTRIAN INDICATION IN THE LINE OF PEDESTRIANS' VISION WHICH PERTAINS TO THE CROSSWALK BEING USED.
- 3. THE BOTTOM OF THE HOUSING OF A VEHICLE SIGNAL FACE, NOT MOUNTED OVER A ROADWAY, SHALL BE AT LEAST 10 FT (3.0m) BUT NOT MORE THAN 15 FT (4.5m) ABOVE THE SIDEWALK OR, ABOVE THE PAVEMENT GRADE AT THE CENTER OF THE HIGHWAY IF NO SIDEWALKS EXIST.
- 4. THE BOTTOM OF THE HOUSING OF A VEHICLE SIGNAL FACE, MOUNTED OVER A ROADWAY, SHALL BE ACCORDING TO CURRENT STATE STANDARDS 877001 AND 877006. (16 FT (5m) MIN., 18 FT (5.5m) MAX., FROM HIGHEST POINT OF PAVEMENT)

PEDESTRIAN SIGNAL POST

PEDESTRIAN SIGNAL HEAD AND PEDESTRIAN PUSHBUTTON DETECTOR LOCATION

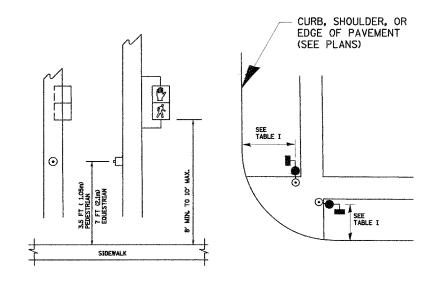


TABLE I

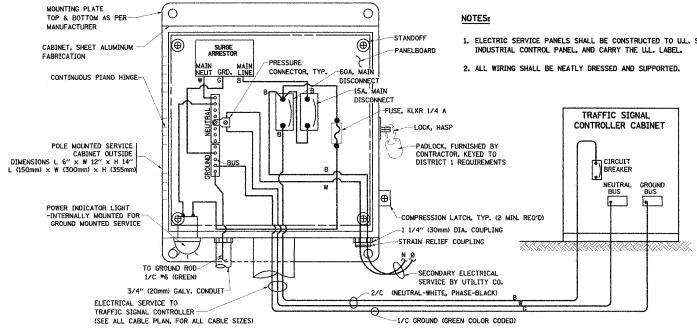
TRAFFIC SIGNAL EQUIPMENT	COMBINATION CONCRETE CURB AND GUTTER (MIN. DIST. FROM BACK OF CURB)	SHOULDER/NON-CURBED AREA (MIN. DIST. FROM EDGE OF PAVEMENT)
TRAFFIC SIGNAL MAST ARM POLE	6 FT (1.8m)	SHOULDER WIDTH + 2FT(0.6m), MINIMUM 10FT(3.0m)
TRAFFIC SIGNAL POST	4 FT (1.2m)	SHOULDER WIDTH + 2FT(0.6m), MINIMUM 10FT(3.0m)
PEDESTRIAN SIGNAL POST	4 FT (1.2m)	SHOULDER WIDTH + 2FT(0.6m), MINIMUM 10FT(3.0m)
PEDESTRIAN PUSHBUTTON	SEE NOTE 1	SEE NOTE 1

SCALE: NONE

SHEET 2 OF 4

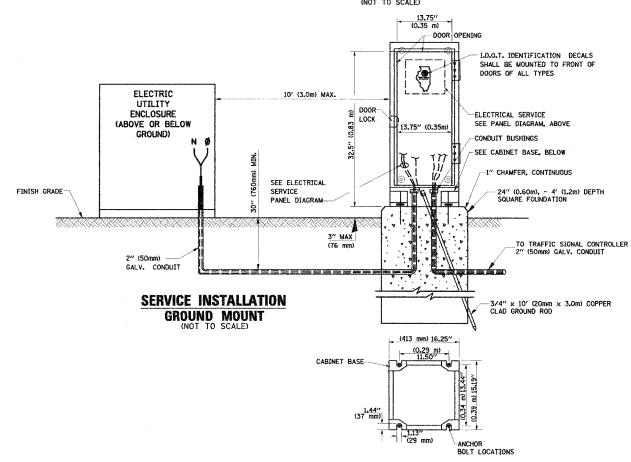
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT 1 Standard Traffic Signal						F.A RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
DESIGN DETAILS					•	341	2007-059 L	KANE	21	04
							CONTRACT	NO. 60	D98	
SHEE	T NO.	0F	SHEETS	STA.	TO STA.	FED. R	DAD DIST. NO. 1 ILLINOIS FED. A	D PROJECT		



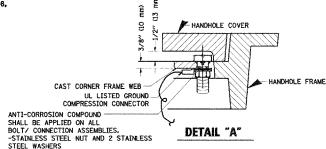
ELECTRICAL SERVICE - PANEL DIAGRAM (TYPICAL FOR POLE AND GROUND MOUNTED SERVICE)

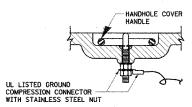
SERVICE INSTALLATION POLE MOUNT (SHOWN)



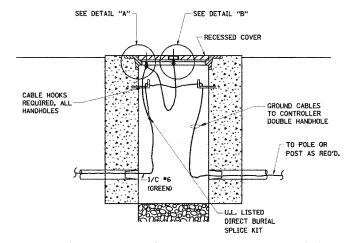
CABINET - BASE BOLT PATTERN (NOT TO SCALE)

1. ELECTRIC SERVICE PANELS SHALL BE CONSTRUCTED TO U.L. STD 508.



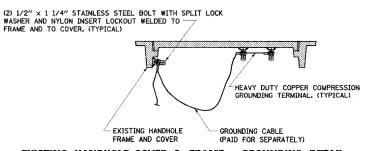


DETAIL "B"



HANDHOLE COVER & FRAME - GROUNDING DETAIL

(NOT TO SCALE)



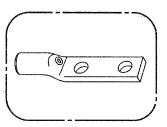
EXISTING HANDHOLE COVER & FRAME - GROUNDING DETAIL

(NOT TO SCALE)

NOTES:

GROUNDING SYSTEM

- THE GROUNDING SYSTEM SHALL CONSIST OF AN INSULATED CONDUCTOR TYPE XLP, NO. 6 A.W.G., STRANDED COPPER TO BE INSTALLED IN RACEWAYS. THE GROUNDING CABLE SHALL BE INSTALLED IN A CONTINUOUS MANNER AS SHOWN ON THE CABLE PLAN PROVIDED. ALL GROUNDING CONDUCTORS SHALL BE BONDED TO METAL ENCLOSURE CHANDHOLE, POST, MAST ARM, CONTROLLER, ETC.). GROUND ROD SHALL BE $3/4^{\prime\prime\prime}$ DIA. \times 10'-0" (20mm \times 3.0m) LONG, COPPER CLAD. ONE GROUND ROD SHALL BE INSTALLED AT ALL POST FOUNDATIONS, POLE FOUNDATIONS, CONTROLLER CABINET FOUNDATION AND ELECTRICAL SERVICE INSTALLATION AS INDICATED ON THE CABLE PLAN, IF THERE ARE ANY SPECIAL CONDITIONS SUCH AS SUB-SURFACE CONDITIONS OR INSTALLATION PROBLEMS, THE RESIDENT ENGINEER SHALL BE NOTIFIED OR CONTACT THE BUREAU OF TRAFFIC, ILLINOIS DEPARTMENT OF TRANSPORTATION DISTRICT ONE AT (847) 705-4139.
- 2. THE NEUTRAL CONDUCTOR AND THE GROUND CONDUCTOR SHALL BE CONNECTED IN THE SERVICE INSTALLATION. AT NO OTHER POINT IN THE TRAFFIC SIGNAL SYSTEM SHALL THE NEUTRAL AND GROUND
- 3. ALL EQUIPMENT GROUNDING CONDUCTORS SHALL TERMINATE AT THE GROUND BUS IN THE CONTROLLER CABINET.
- 4. THE CONTRACTOR SHALL PROVIDE A GROUND CABLE WITH CONNECTORS BETWEEN THE HANDHOLE COVER AND HANDHOLE FRAME.

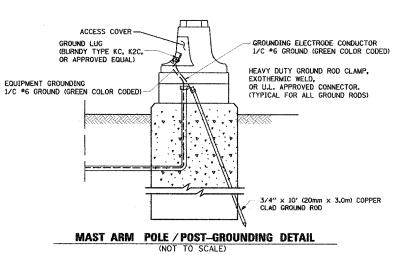




HEAVY-DUTY COMPRESSION TERMINAL (BURNDY TYPE YGHA OR APPROVED EQUAL)

3/4" (20mm) HEAVY-DUTY GROUND ROD CLAMP (BURNDY TYPE GRC OR APPROVED EUAL)

 ALL CLAMPS SHALL BE BRONZE OR COPPER, UL APPROVED.
 GROUND CABLE SHALL BE LOOPED OVER HOOKS IN THE HANDHOLES 6.5' (2.0m) SLACK SHALL BE PROVIDED IN SINGLE HANDHOLES 13' (4.0m) OF SLACK SHALL BE PROVIDED IN DOUBLE HANDHOLES. 5' (1.4m) OF SLACK SHALL BE PROVIDED BETWEEN FRAME AND COVER.

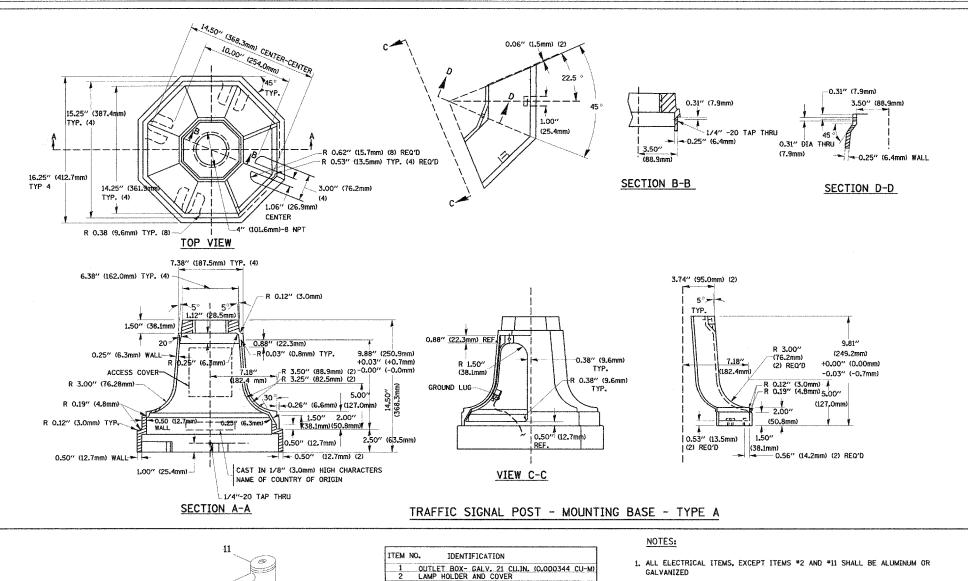


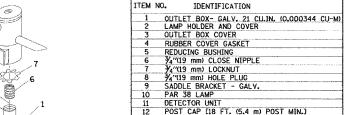
SHEET 3 OF 4

TOTAL SHEETS NO.

21 05

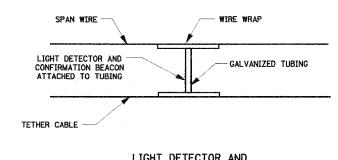
FILE NAME = USER NAME = \$USER\$ DESIGNED - DAD REVISED DISTRICT 1 COUNTY STANDARD TRAFFIC SIGNAL STATE OF ILLINOIS #FILEL# DRAWN - RWP REVISED 2007-059 L KANE PLOT SCALE = #SCALE# CHECKED - DAZ REVISED DESIGN DETAILS **DEPARTMENT OF TRANSPORTATION** CONTRACT NO. 60D98 PLOT DATE = *DATE* - 1-01-02 SHEET NO. OF SHEETS STA. DATE REVISED -SCALE: NONE TO STA. FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT





8-3-93

- 2. ITEM *1- OZ/GEDNEY FSX-1-50 OR EQUIVALENT ITEM *2- MULBERRY CON-O-SHADE LAMP SHIELD OR EQUIVALENT ITEM *9- "BAND-IT" SADDLE BRACKET OR EQUIVALENT
- 3. WHEN POST MOUNTING IS SPECIFIED, ITEM *9 SHALL NOT BE REQUIRED. THE DETECTION UNIT SHALL BE MOUNTED DIRECTLY ON TOP OF THE CAP BY DRILLING AND TAPPING A ¾"(19 mm) HOLE WITH PIPE THREADS. THE POST CAP SHALL EITHER BE SCREWED TO THE TOP OF THE POST OR A MINIMUM OF 3 TIGHTENING SCREWS SHALL BE REQUIRED ON EACH CAP.



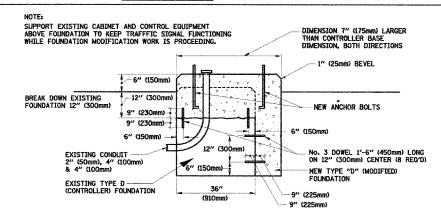
LIGHT DETECTOR AND CONFIRMATION BEACON MOUNTING FOR TEMPORARY TRAFFIC SIGNALS

SCALE: NONE

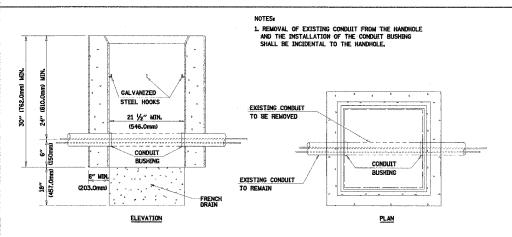
(NOT TO SCALE)

R2.95" (75mm) - ASTM A48 CLASS 30 GREY IRON - ASTM A123 HOT DIPPED GALVANIZED 0.25"-0.23"(5mm ____O_31"(8mm -- 0.20"(5mm) TYPE r HEIGHT WEIGHT Ø 10.125"(257mm) 9.5"(241mm) 19"(483mm) 12" (300mm) 24kg Ø 11.125"(283mm) 10.75"(273mm) 21.5"(546mm) 12" (300mm) 26kg

SHROUD DETAIL



MODIFY EXISTING TYPE "D" FOUNDATION



DETAIL HANDHOLE TO INTERCEPT EXISTING CONDUIT

SHEET 4 OF 4

DESIGNED - DAD FILE NAME = USER NAME = \$USER\$ REVISED -\$FILEL\$ DRAWN - RWP REVISED CHECKED - DAZ REVISED PLOT SCALE = #SCALE# PLOT DATE = *DATE* DATE - 1-01-02 REVISED

MAST ARM MOUNT

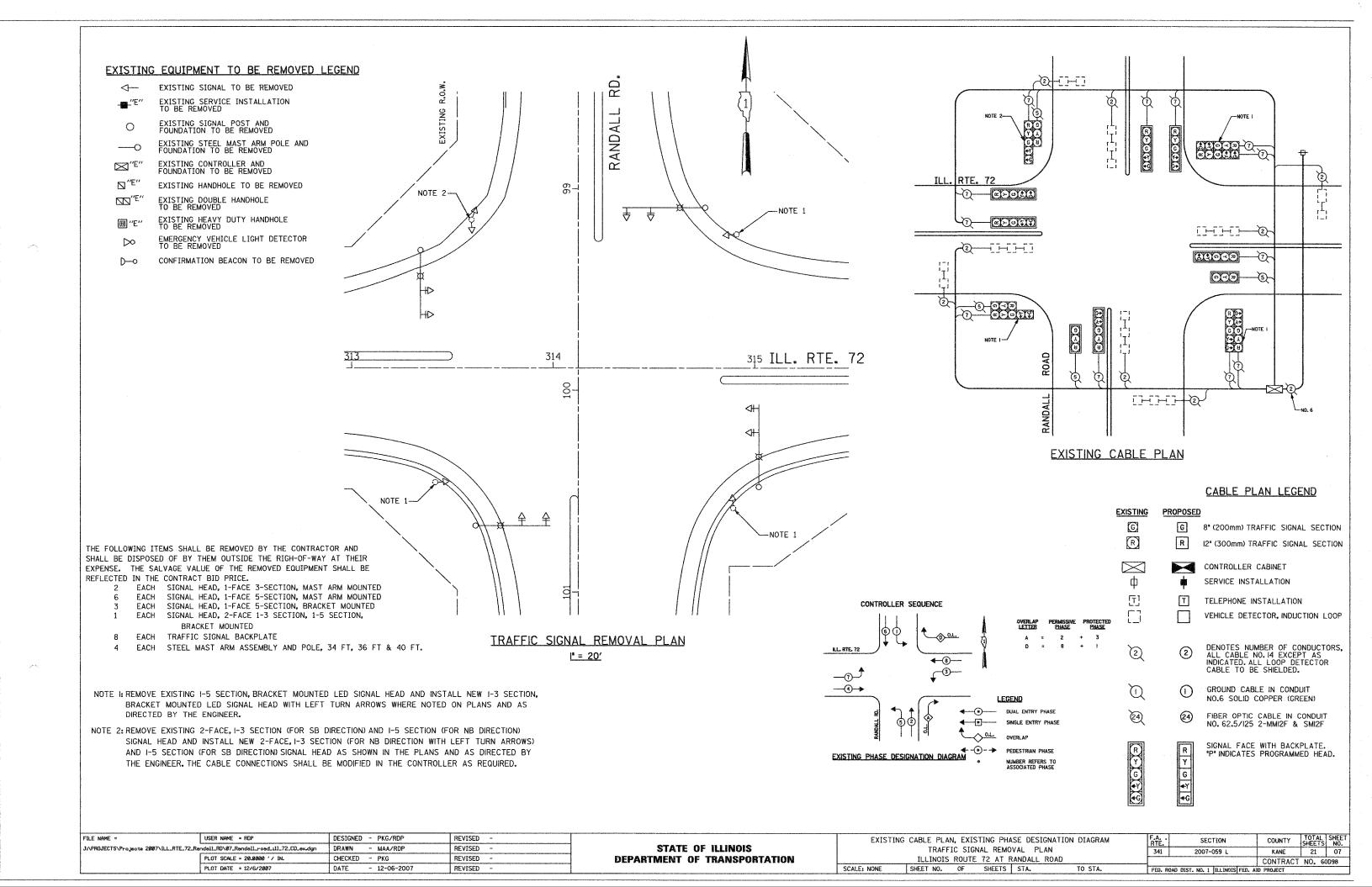
EMERGENCY VEHICLE DETECTOR WITH CONFIRMATION BEACON MOUNTING DETAIL

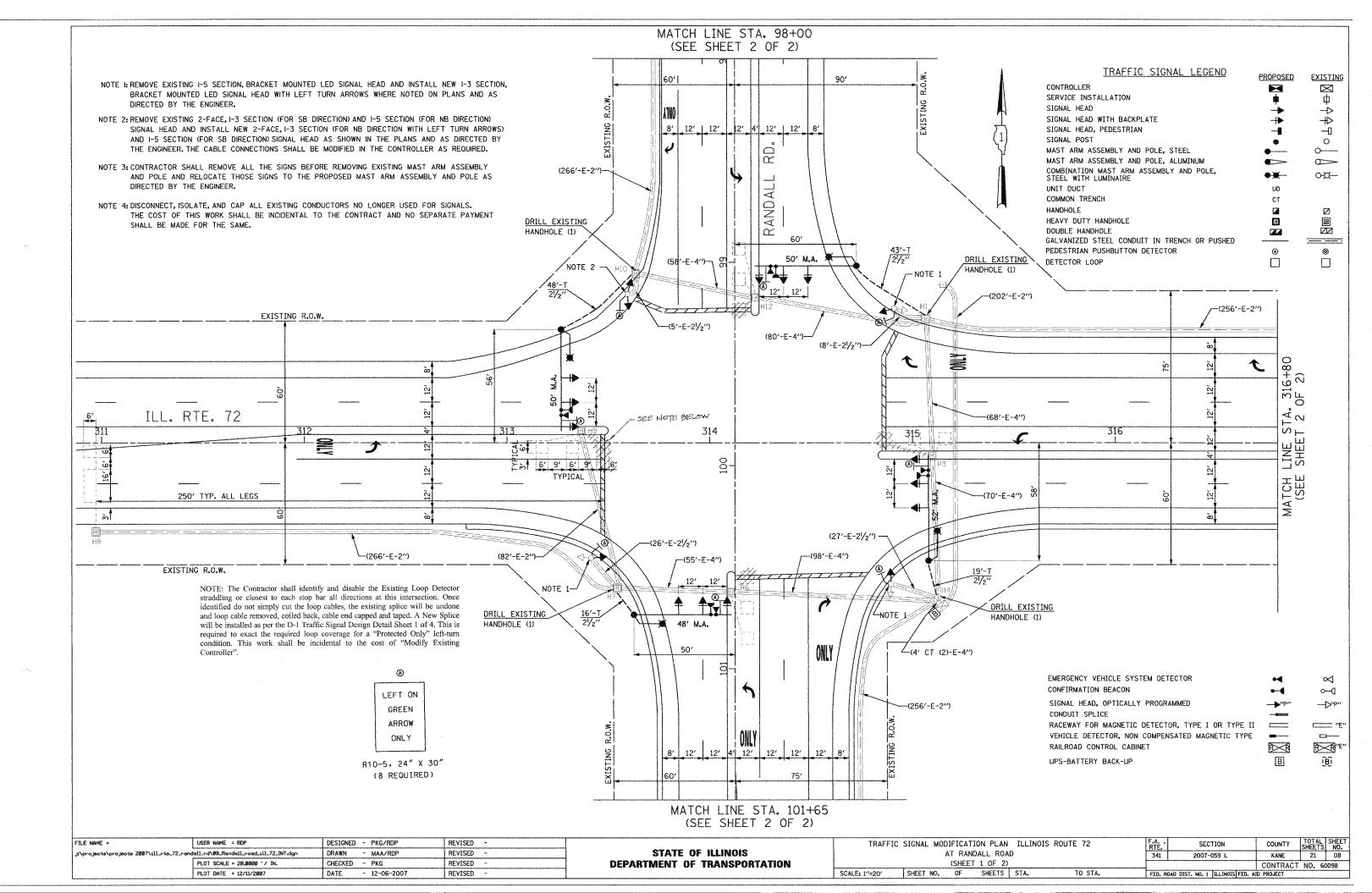
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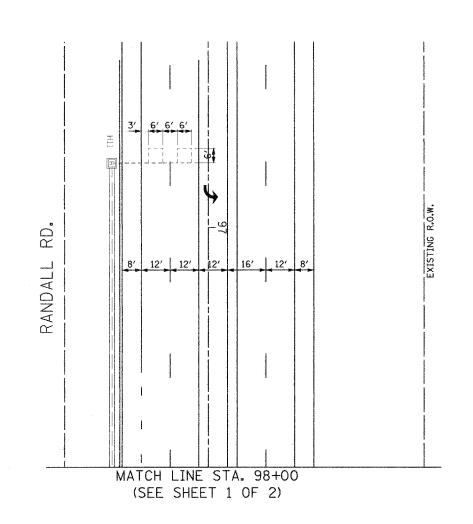
POST CAP MOUNT

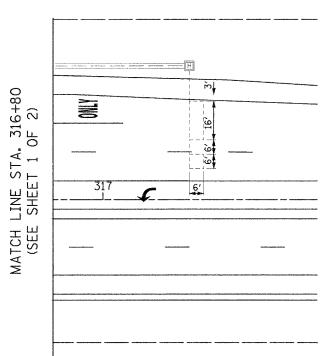
STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

TOTAL SHEET NO. DISTRICT 1 SECTION COUNTY STANDARD TRAFFIC SIGNAL KANE DESIGN DETAILS CONTRACT NO. 60098 SHEET NO. OF SHEETS STA. TO STA. FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT









	(SEE SHEET 1 OF 2)	
EXISTING R.O.W.	102	
RANDALL RD.	103	EXISTING R.O.W.
	8' 12' 12' 16' 12' 12' 8'	
Į į		l

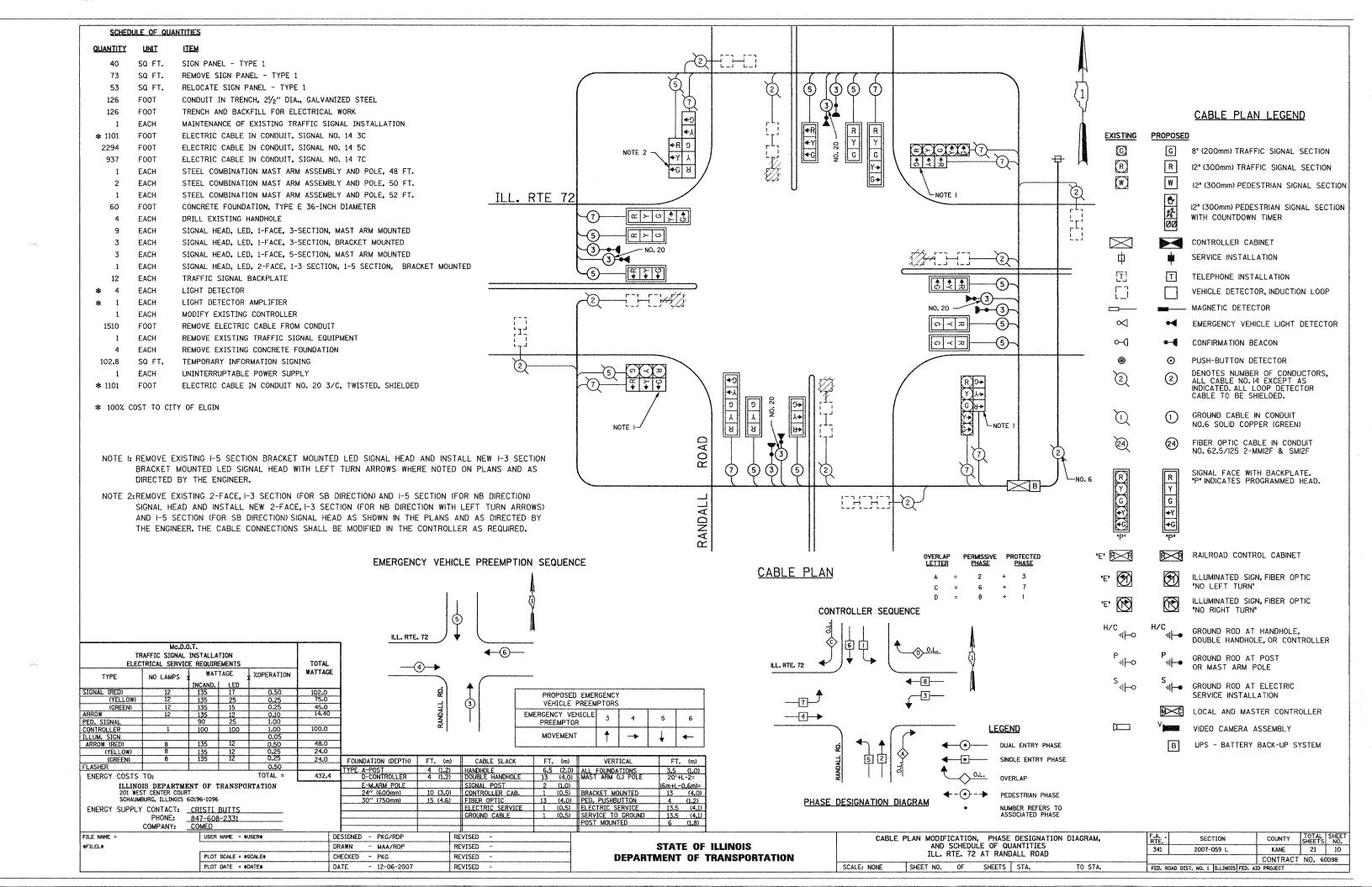
MATCH LINE STA. 101+65

TRAFFIC SIGNAL LEGEND	PROPOSED	EXISTING
CONTROLLER	E	\bowtie
SERVICE INSTALLATION		ф
SIGNAL HEAD	-	→ >
SIGNAL HEAD WITH BACKPLATE	▶	+>
SIGNAL HEAD, PEDESTRIAN	-1	-0
SIGNAL POST	•	0
MAST ARM ASSEMBLY AND POLE, STEEL		0
MAST ARM ASSEMBLY AND POLE, ALUMINUM		
COMBINATION MAST ARM ASSEMBLY AND POLE, STEEL WITH LUMINAIRE	⊕ ₩	o-¤−
UNIT DUCT	UD	
COMMON TRENCH	CT	
HANDHOLE	2	Ø
HEAVY DUTY HANDHOLE	Ш	(A)
DOUBLE HANDHOLE		22
GALVANIZED STEEL CONDUIT IN TRENCH OR PUSHED		******
PEDESTRIAN PUSHBUTTON DETECTOR	⊚	@
DETECTOR LOOP		디
CAST IRON JUNCTION BOX	0	①"E"
EMERGENCY VEHICLE SYSTEM DETECTOR	•4	≪
CONFIRMATION BEACON	•	o—₫
SIGNAL HEAD, OPTICALLY PROGRAMMED	→ "P"	— > ″P″
CONDUIT SPLICE	(1	
WOOD POLE	- ⊗	⊗″E″
RACEWAY FOR MAGNETIC DETECTOR, TYPE I OR TYPE II		Œ "E"
VEHICLE DETECTOR, NON COMPENSATED MAGNETIC TYPE	-	—
RAILROAD CONTROL CABINET	₽SS	₹"E"
TELEPHONE CONNECTION	<u></u>	፲
POLYUREA PAVEMENT MARKING TYPE I- LINE 24"		1
POLYUREA PAVEMENT MARKING TYPE 1- LINE 6" 6' APART CROSSWALK LINES	*******	
ILLUMINATED SIGN, FIBER OPTIC "NO LEFT TURN"	(P)	\mathfrak{D}
ILLUMINATED SIGN, FIBER OPTIC "NO RIGHT TURN"	$\overline{\mathfrak{B}}$	®
VIDEO DETECTION CAMERA (SINGLE)		
UPS-BATTERY BACK-UP	В	<u> Bi</u>

16+	Manufacture of English State of the Control of the	16,	
TA. 3	**************************************	- io	
AE S.	317	£ 6'	
티스			
MATCH LINE STA. 316+ (SEE SHEET 1 OF 2)			

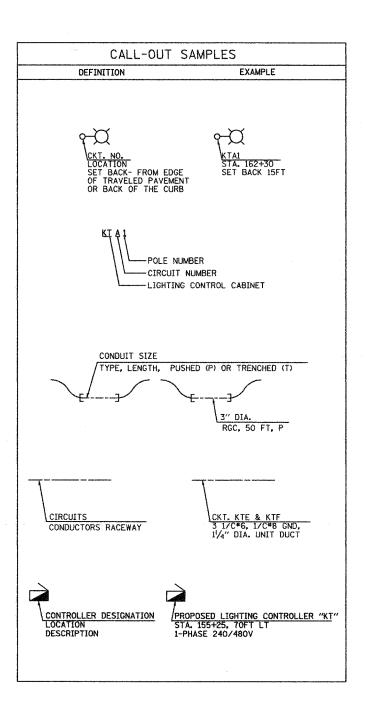
TLE NAME =	USER NAME = RDP	DESIGNED	- PKG/RDP	REVISED	-
INPROJECTS/Projects 2007/ILL_RTE_72_Re	DRAWN	- MAA/RDP	REVISED		
	PLOT SCALE = 20.0000 '/ IN.	CHECKED	- PKG	REVISED	-
	PLOT DATE = 12/6/2007	DATE	- 12-06-2007	REVISED	w

	TRAFFIC SIGNAL MODIFICATION PLAN					F.A RTE.	SECTION	COUNTY	TOTAL	SHEET NO.	
-	ILLINOIS ROUTE 72 AT RANDALL ROAD (SHEET 2 OF 2)					341	2007-059 L	KANE	21	09	
-	SCALE: 1"=20'	SHEET NO.	OF	SHEETS	STA.	TO STA.	FED. RO	DAD DIST. NO. 1 [ILLINOIS FED. A	CONTRACT D PROJECT	NO. 60	0098



LEGEND (IDOT)

\hookrightarrow	PROPOSED LIGHTING UNIT 47.5' M.H., 15' M.A., 400W, 240V HPS LUMINAIRE TRANSFORMER BASE
- □	PROPOSED COMBINATION LIGHTING UNIT 45' M.H., 15' M.A., 400W, 240V HPS LUMINAIRE
Œ _ ≜	EXISTING COMBINATION LIGHTING UNIT
o _ [<u>E</u>]	EXISTING LIGHTING UNIT TO REMAIN
[]	EXISTING RIGID GALVANIZED STEEL CONDUIT (RGC) SIZE AS INDICATED
and the substitution of th	PROPOSED UNIT DUCT, AS SPECIFIED IN PLANS
	EXISTING LIGHTING CONTROLLER
4	PROPOSED ELECTRIC GROUND ROD



	ļ	ABBREVIATIONS
	SYMBOL	DESCRIPTION
	AC A/C AFG CB CKT	ALTERNATING CURRENT AERIAL CABLE ABOYE FINISHED GRADE CIRCUIT BREAKER CIRCUIT
	CM CNC CT CP DA DC	CENTIMETER COILABLE NONMETALLIC CONDUIT CURRENT TRANSFORMER CONTROL PANEL DAVIT ARM DIRECT CURRENT
	DIA DP E ECA EM	DIAMETER DISTRIBUTION PANEL EXISTING UNIT TO REMAIN ELECTRIC CABLE ASSEMBLY EXISTING UNIT TO BE MODIFIED (e.g. NEW LUMINAIRE, BALLAST OR MAST ARM)
	ER ET ETR FT	BALLAST OR MAST ARM) EXISTING RELOCATED UNIT EXISTING TEMPORARY UNIT TO REMAIN EXISTING TEMPORARY RELOCATED UNIT FEET OR FOOT
	FND BW FND BW OS FND CON FND CON OS FND MET FND PW	FOUNDATION BARRIER WALL FOUNDATION BARRIER WALL OFFSET FOUNDATION CONCRETE FOUNDATION CONCRETE OFFSET FOUNDATION METAL FOUNDATION PARAPET WALL
	FU GND HID JB KVA KW	FUSE GROUND HIGH INTENSITY DISCHARGE JUNCTION BOX KILOVOLT-AMPERE KILOWATTS
	M MA MM MH NO. #	METER MAST ARM MILLIMETER MOUNTING HEIGHT NUMBER
	P PB PNL PVCC RGC PT	PROPOSED PUSH BUTTON PANEL PVC COATED RIGID GALVANIZED CONDUIT POTENTIAL TRANSFORMER
	R RR	EXISTING UNIT TO BE REMOVED (OWNER SALVAGED U.N.O.) EXISTING UNIT TO BE REMOVED AND REINSTALLED
	RECP RGC SEL SW SPARE SPACE	RECEPTACLE RIGID GALVANIZED CONDUIT SELECTOR SWITCH SPARE SPARE SPACE
	SS STA T TB TMP	STAINLESS STEEL STATION TEMPORARY LIGHTING UNIT TRANSFORMER BASE TEMPORARY
	TR TRR TUR	TEMPORARY UNIT TO BE REMOVED. SALVAGE EQUIPMENT AS SPECIFIED TEMPORARY UNIT TO BE REMOVED AND RELOCATED TEMPORARY UNIT ON UTILITY POLE
	UD U.N.O. WP XFMR	TO BE REMOVED UNIT DUCT UNLESS NOTED OTHERWISE WOOD POLE TRANSFORMER
-		

SCALE: NONE

GENERAL NOTES:

- THE CONTRACTOR SHALL VERIFY ALL OF THE INFORMATION SHOWN ON THE CONTRACT DRAWINGS, WHICH WOULD AFFECT THE WORK UNDER THIS CONTRACT.
- IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ASCERTAIN EXISTING FIELD CONDITIONS BEFORE BIDDING ON THIS PROJECT, SPECIFICALLY AS THEY RELATE TO LUMP SUM ITEMS AND UNIT PRICE ITEMS.
- 3. ALL NEW CONDUITS, UNIT DUCTS, DIRECT BURIAL CABLES, AND APPURTENANCES ARE INDICATED DIAGRAMMATICALLY ON THE DRAWINGS. THE ACTUAL LOCATIONS IN THE FIELD SHALL MEET WITH APPROVAL OF THE ENGINEER.
- 4. THE ELECTRICAL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE IDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND ASSOCIATED SUPPLEMENTAL CONDITIONS.
- 5. THE SCALE SHOWN ON PLAN DRAWINGS APPLIES ONLY TO THE FULL SIZE PLANS AND NOT TO REDUCED SIZE PLANS.
- 6. THE CONTRACTOR SHALL FURNISH AND INSTALL LUMINAIRE LAMPS IN ACCORDANCE WITH THE SUPPLIER'S RECOMMENDATIONS AND IN ACCORDANCE WITH THE SPECIFICATIONS. THE COST OF THIS WORK AND MATERIAL SHALL BE INCLUDED IN THE APPLICABLE LUMINAIRE PAY ITEM. SEPARATE PAYMENT WILL NOT BE MADE.
- 7. ALL LUMINAIRES SHALL BE ORIENTED WITH THE OPTICS PERPENDICULAR TO THE ROADWAY UNLESS OTHERWISE INDICATED OR DIRECTED BY THE ENGINEER, THIS WORK SHALL BE CONSIDERED INCLUDED IN THE APPLICABLE LUMINAIRE PAY ITEMS, SEPARATE PAYMENT WILL NOT BE MADE.
- 8. CONDUITS AND UNIT DUCTS SHALL BE INSTALLED AT A MINIMUM 30" DEPTH BELOW GRADE AND POSITIONED IN THE FIELD TO AVOID CONFLICT WITH ROADWAY UNDERDRAINS AND OTHER EXISTING AND PROPOSED UTILITIES. THE CONTRACTOR SHALL INCREASE DEPTH OF UNIT DUCT AND CONDUIT AS REQUIRED AT NO ADDITIONAL COST TO THE STATE. THE CONTRACTOR SHALL COORDINATE RACEWAY DEPTH WITH THE ELECTRICAL DETAILS AND THE ENGINEER.
- WHERE MULTIPLE CONDUITS ADJACENT TO EACH OTHER ARE INSTALLED IN A COMMON TRENCH, TRENCH AND BACKFILL WILL NOT BE PAID FOR EACH CONDUIT, BUT WILL BE PAID FOR THE LENGTH OF THE COMMON TRENCH ONLY.
- 10. WHERE THE CONTRACTOR'S EXCAVATION MEETS AN OBSTRUCTION, THE CONTRACTOR SHALL NOTIFY THE ENGINEER FOR DIRECTION IN WRITING PRIOR TO EXCAVATION. THE CONTRACTOR SHALL RESTORE ANY DAMAGE TO EXISTING SYSTEMS OR UTILITIES AND REMOVE EXISTING OBSTRUCTIONS AND FOUNDATIONS TO THE SATISFACTION OF THE ENGINEER. THIS WORK SHALL BE CONSIDERED INCIDENTAL TO THE APPROPRIATE PAY ITEM.
- 11. TRANSFORMER BASE, 9" BREAKAWAY DEVICE SHALL BE INSTALLED ON ALL NEW LIGHT POLES WITH 15" BOLT CIRCLE ON A 24" DIA. FOUNDATION AS SHOWN IN THE PLANS.

COUNTY SHEETS NO.

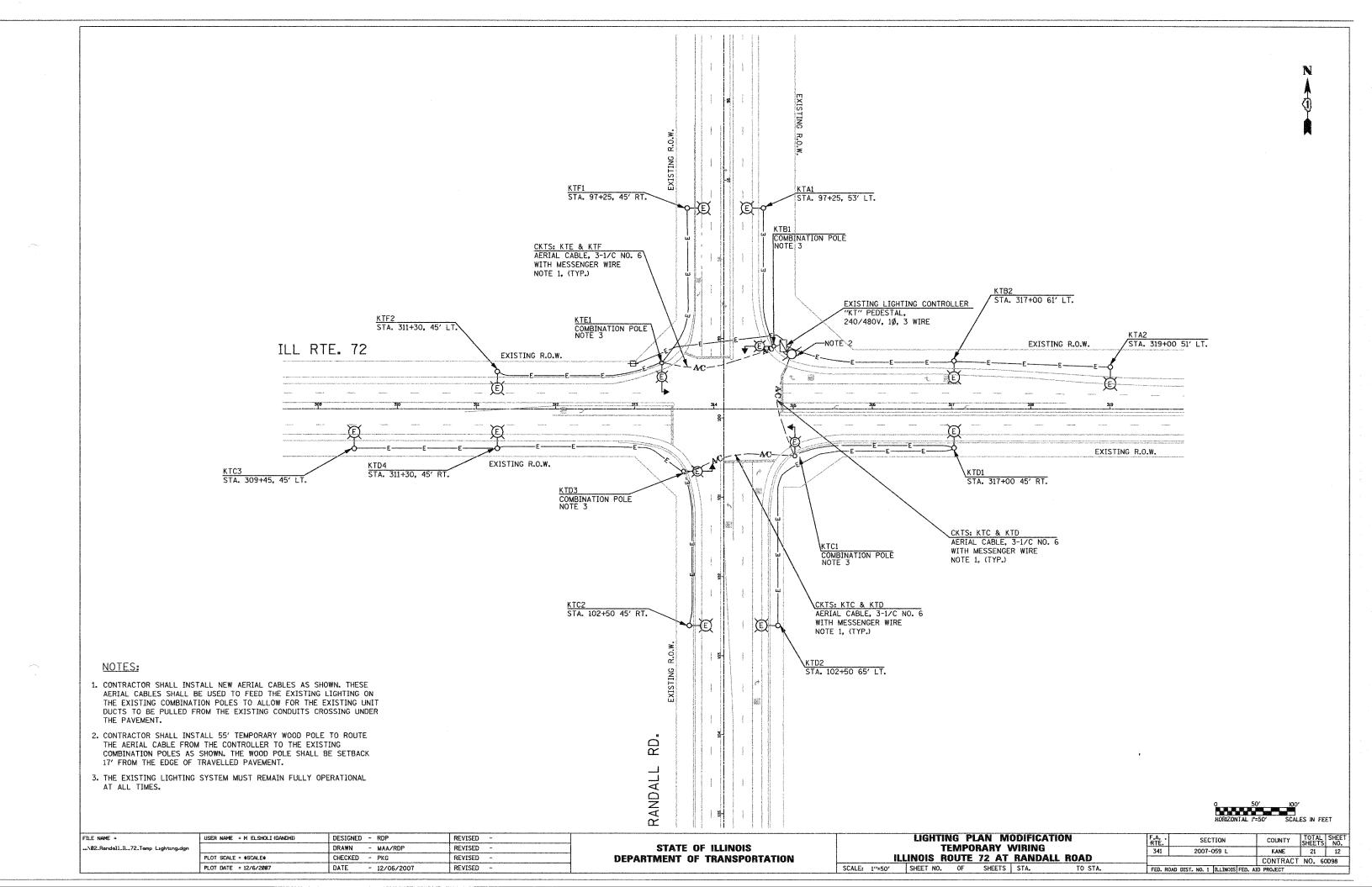
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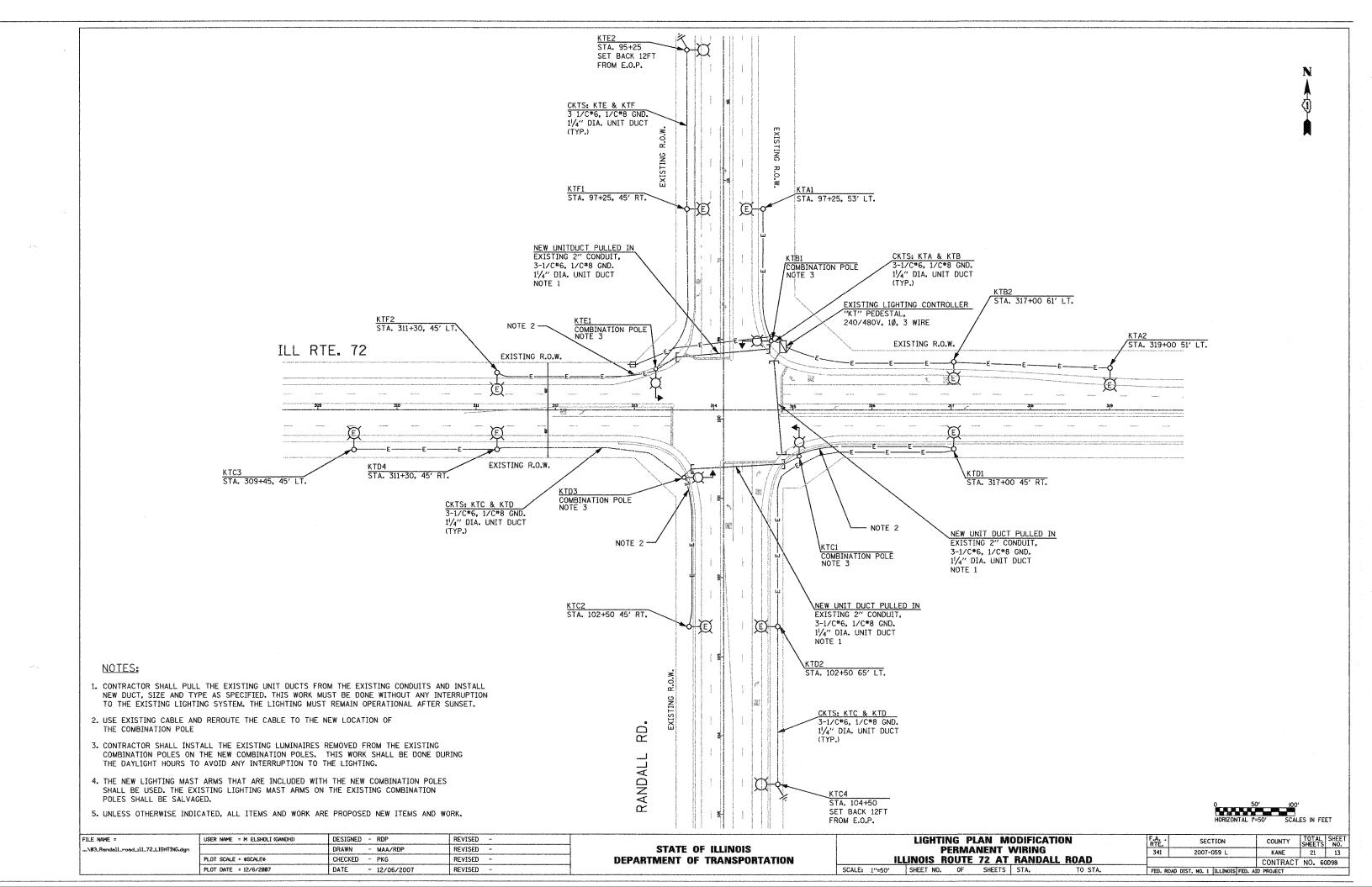
CONTRACT NO. 60D98

FILE NAME =	USER NAME = M ELSHOLI (GANDHI)	DESIGNED - RDP	REVISED -
\LIGHTING\Ø1_LEGEND.dgn		DRAWN - MAA/RDP	REVISED -
	PLOT SCALE = \$SCALE\$	CHECKED - PKG	REVISED -
	PLOT DATE = 12/6/2007	DATE - 12/06/2007	REVISED -

STATI	E OF	LLINOIS
DEPARTMENT	OF	TRANSPORTATION

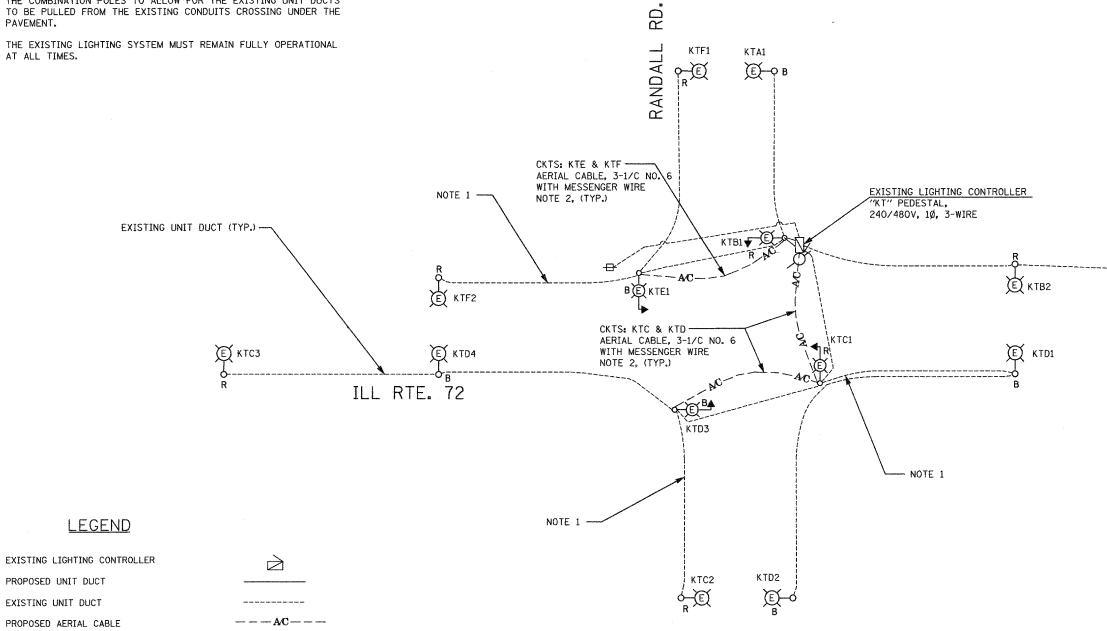
ILLINOIS I	ROUT	E 72 A	T RANDAL	L ROAD	F.A RTE.		s	ECTI	ON		T	COUNTY
LIGHTING	LEGI	END &	GENERAL	NOTES	341		200	7-05	59 L		Т	KANE
 ·											Т	CONTRA
SHEET NO.	0F	SHEETS	STA.	TO STA.	FED. R	ROAD D	IST. NO.	1 1	LLINOIS	FED.	AID	PROJECT





NOTES:

- 1. USE EXISTING CABLE AND UNIT DUCT AND REPOUTE THEM TO THE NEW LOCATION OF THE COMBINATION POLE
- 2. CONTRACTOR SHALL INSTALL NEW AERIAL CABLES AS SHOWN. THESE AERIAL CABLES SHALL BE USED TO FEED THE EXISTING LIGHTING ON THE COMBINATION POLES TO ALLOW FOR THE EXISTING UNIT DUCTS TO BE PULLED FROM THE EXISTING CONDUITS CROSSING UNDER THE
- 3. THE EXISTING LIGHTING SYSTEM MUST REMAIN FULLY OPERATIONAL AT ALL TIMES.



PROPOSED UNIT DUCT	
EXISTING UNIT DUCT	and any Any also pay the space and age and the
PROPOSED AERIAL CABLE	AC
EXISTING SERVICE INSTALLATION	ф
PROPOSED LIGHTING UNIT	~ <u>X</u>
PROPOSED COMBINATION LIGHTING UNIT	~
EXISTING COMBINATION LIGHTING UNIT	<u>~_E</u> ◆
EXISTING LIGHTING UNIT	o <u>—(E</u>)
PROPOSED ELECTRIC GROUND ROD	.1}

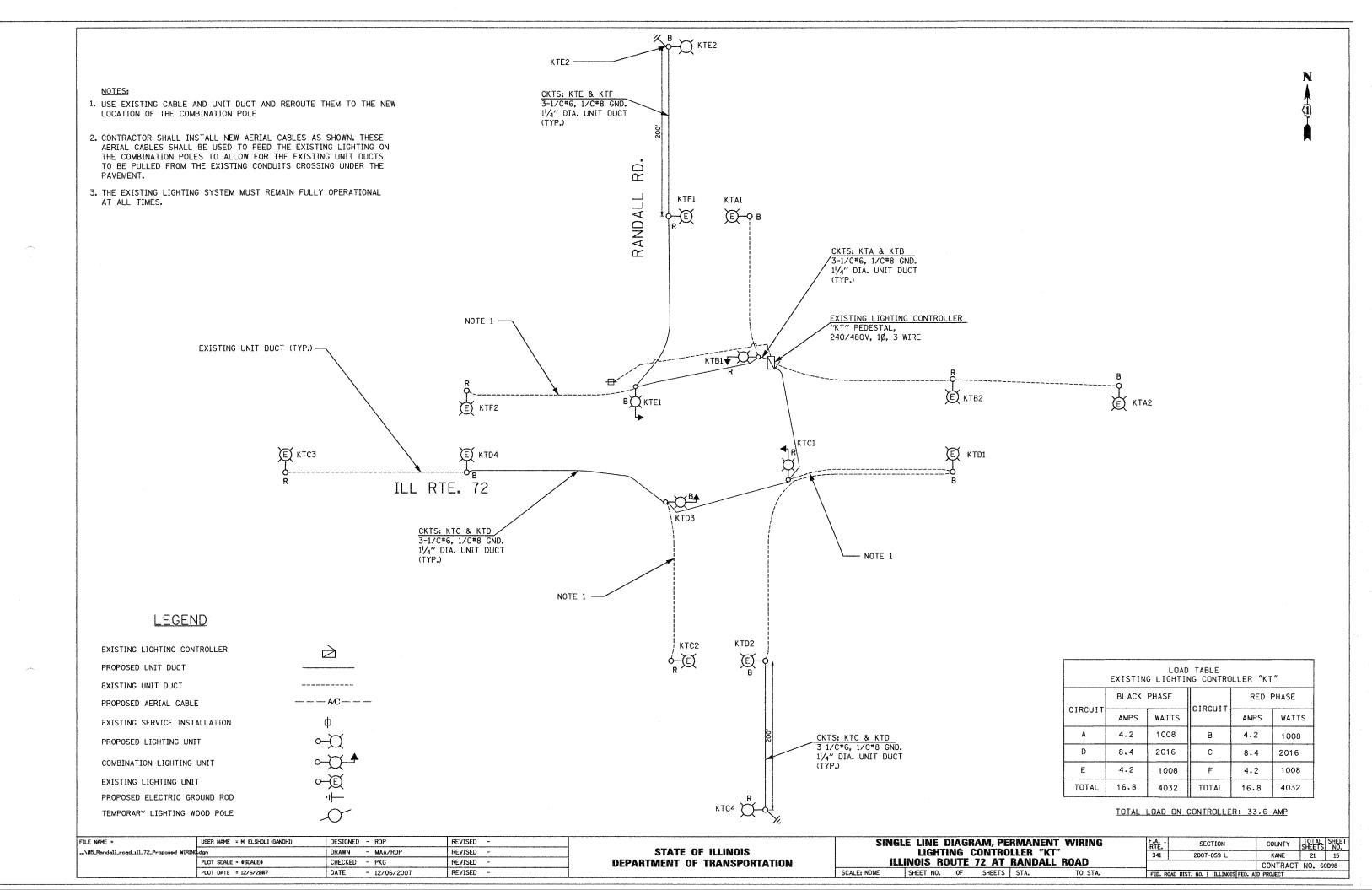
TEMPORARY LIGHTING WOOD POLE

LOAD TABLE EXISTING LIGHTING CONTROLLER "KT"								
2150117	BLACK	PHASE	CIRCUIT	RED 8	PHASE			
CIRCUIT	AMPS	WATTS	CIRCUII	AMPS	WATTS			
Α	4.2	1008	В	4.2	1008			
D	8.4	2016	С	6.3	1512			
E	2.1	504	F	4.2	1008			
TOTAL	14.7	3528	TOTAL	14.7	3528			

TOTAL LOAD ON CONTROLLER: 29.4 AMP

KTA2

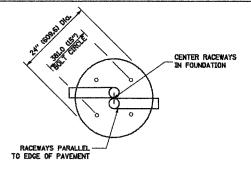
\04_Rendell_road.ill.72_Temp \wirkinG.dgr DRAWN - MAA/RDP REVISED - STATE OF ILLINOIS LIGHTING CONTROLLER "KT" 2007-059 L KANE 20	FILE NAME =	USER NAME = M ELSHOLI (GANDHI)	DESIGNED - RDP	REVISED -		SINGLE LINE DIAGRAM, TEMPORARY WIRING	F.A. SECTION	COUNTY TOTAL	SHEET
PLOT SCALE = *SCALE* CHECKED - PKG REVISED - DEPARTMENT OF TRANSPORTATION ILLINOIS ROUTE 72 AT RANDALL ROAD CONTRACT N	\04_Randall_road_ill_72_Temp WIRING.dgr		DRAWN - MAA/RDP	REVISED -	STATE OF ILLINOIS		341 2007-059 L	31 ILL I 3	14
PLOT DATE = 12/06/2007 DATE - 12/06/2007 REVISED - SCALE; NONE SHEETS STA. TO STA. FED BOAD DIST NO. TILLINDISEED AID BROKET]	PLOT SCALE = \$SCALE\$	CHECKED - PKG	REVISED -	DEPARTMENT OF TRANSPORTATION	ILLINOIS ROUTE 72 AT RANDALL ROAD			0098
CEST NOTO DIGITAL TO THE TAIL THOSE THE TAIL TO THE TAIL THOSE THE TAIL		PLOT DATE = 12/6/2007	DATE - 12/06/2007	REVISED -		SCALE; NONE SHEET NO. OF SHEETS STA. TO STA.	FED. ROAD DIST. NO. 1 ILLINOIS FED. A	AID PROJECT	



CONTRACT NO RTE. SECTION COUNTY STA. TO STA. FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT

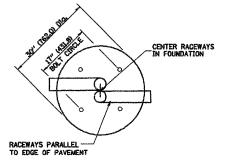
LIGHT POLE FOUNDATION DEPTH TABLE 40 FT. (12.192 m) TO 47.5 FT. (14.478 m) MOUNTING HEIGHT

	DESIGN DEPTH "D" OF FOUNDATION		
SOIL CONDITIONS	SINGLE ARM POLE	TWIN ARM POLE	
SOFT CLAY	13'-0"	15'-0"	
Qu = 0.375 TON/SQ. FT.	(3.96 m)	(4.57 m)	
MEDIUM CLAY	9'-6"	10'-9"	
Qu = 0.75 TON/SQ.FT	(2.09 m)	(3.23 m)	
STIFF CLAY	7'-0"	8'-0"	
Qu = 1.50 TON/SQ. FT.	(2.13 m)	(2.44 m)	
LOOSE SAND	9'-0"	10'-0"	
Ø = 34°	(2.74 m)	(3.05 m)	
MEDILIM SAND	8'-3''	9′-0″	
Ø = 37.5°	(2_52 m)	(2.74 m)	
DENSE SAND	7'-9"	9'-0"	
6 = 40°	(2,36 m)	(2.74 m)	



TOP VIEW

ANCHOR ROD 4-1" Dig. X 5'-0" (4-25.4 Dig. X 1.524 m)



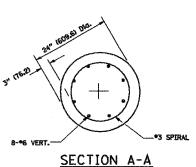
TOP VIEW

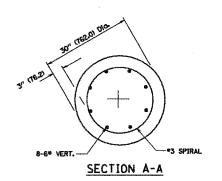
NOTES

- 1. ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) LINLESS OTHERWISE SHOWN.
- THE ANCHOR RODS AND RACEWAYS SHALL BE PROPERLY SECURED IN PLACE
- THE FOUNDATION SHALL NOT PROTRUDE MORE THAN 100MM (4 IN.) ABOVE THE FINISHED GRADE WITHIN A 60 IN. (1.5 m) CHORD ACROSS THE FOUNDATION, WITH ANCHOR RODS INCLUDED, IN ACCORDANCE WITH ASHTO BUIDELINES, IF THE FOUNDATION HEIGHT, INCLUDING ANCHOR RODS, EXTENDS BEYOND THESE SPECIFIED LIMITS, THE FOUNDATION SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE SEE FOUNDATION EXTENSION DETAIL.
- 4. 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.
- 5. 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 34-IN. (20 mm).
- THE CONCRETE SHALL BE CLASS SI. CONCRETE SHALL CURE ACCORDING TO ARTICLE 1020.13 BEFORE LIGHT POLES ARE INSTALLED.
- 7. 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
- 8. 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 GALVANIZED BY EITHER THE HOT-DIPPED PROCESS CONFORMING WITH AASHTO M 232, THE MECHANICAL PLATING METHOD CONFORMING TO AASHTO M 298, CLASS 50 WITH A MAXIMUM COATING THICKNESS OF 150 UMM6 MILS) OR THE ELECTROLYTIC PROCESS ACCORDING TO ASTM F 1136.
- 10. THE ANCHOR ROOS SHALL BE THREADED A MINIDALM OF 6 INCHES (150 mm) WITH A MINIMUM OF 3 INCHES (75 mm) OF THREADED ANCHOR ROD EMBEDDED IN THE FOUNDATION.
- 11. ANCHOR RODS SHALL PROJECT 2¾4" (69.9 mm) 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 6" (152.4 mm) PITCH OR MAY SUBSTITUTE *3 TIES AT 12" (304.8 mm) O.C. WITH THE APPROVAL OF THE ENGINEER.
- 13. THE CABLE TRENCHES AND FOUNDATION SHALL BE BACK FILLED AND COMPACTED AS SPECIFIED BEFORE THE LIGHT POLE IS ERECTED.
- 14. THE RACEWAYS SHALL PROJECT 1" (25.4 mm) ABOVE THE TOP OF THE FOUNDATION.

	ø = 40°	(2.36 m)	(2.74 m)	
6" (1 THRE! **" T. X 4" DIC 5.87 T. X 101.6 DIC 5.87 T. X 101.6 DIC	# Dla, X 55-0"			EXOTHERMIC WELD CONNECTION TO GND ROD. See RADIUS DIG. X SIG.40 WAY (2 MIN.) GROUND ROD (WHEN SPECIFIED) WY DIG. X 10' (15.875 DIG. X 5.048 m) 13' (76.2) 24" (609.6) DIG. FOUNDATION DETAIL

60" (1500) FOUNDATION EXTENSION DETAIL





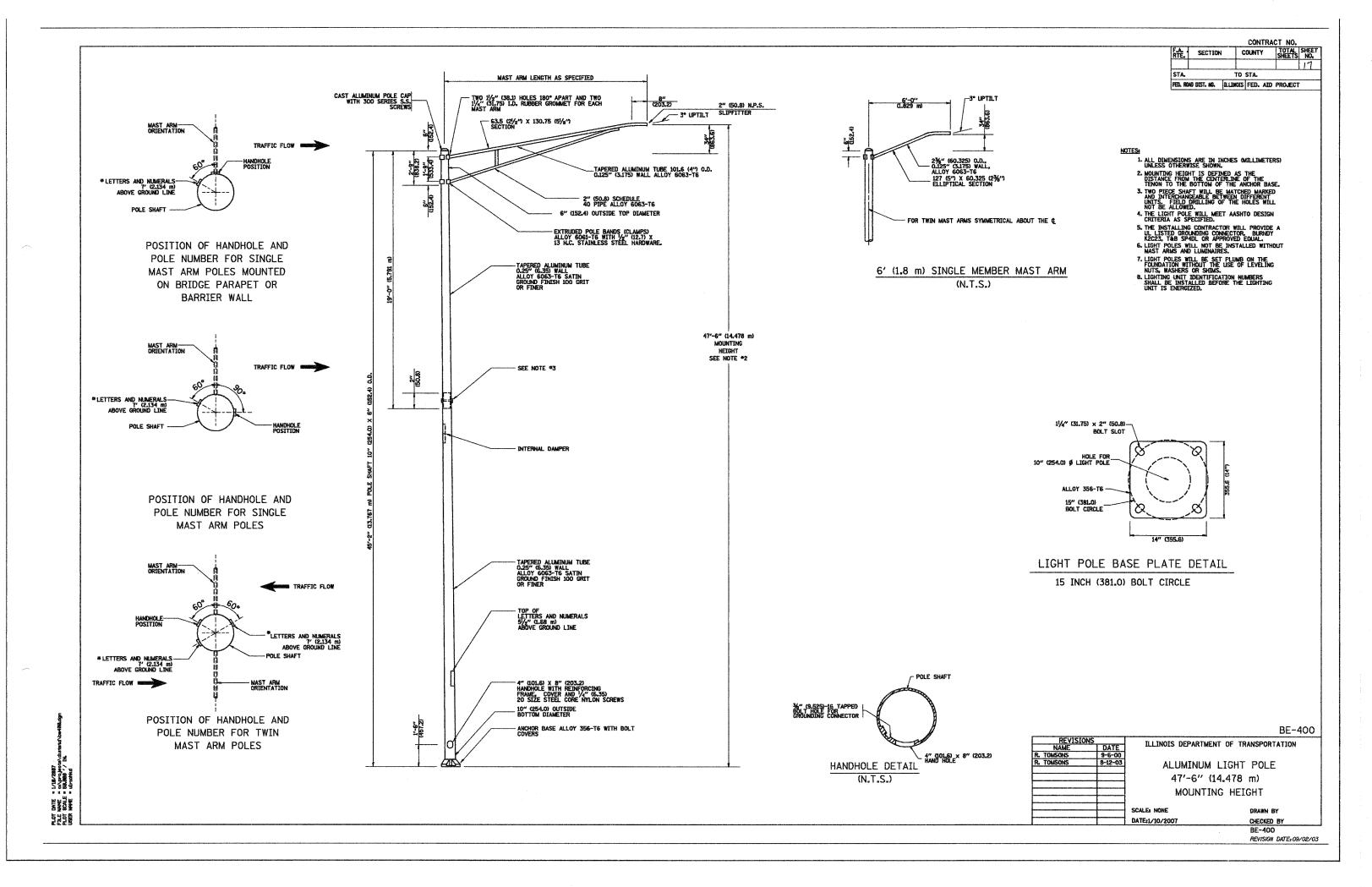
ILLINOIS DEPARTMENT OF TRANSPORTATION LIGHT POLE FOUNDATION 40' (12.192 m) TO 471/2' (14.478 m) M.H. 15" (381) BOLT CIRCLE

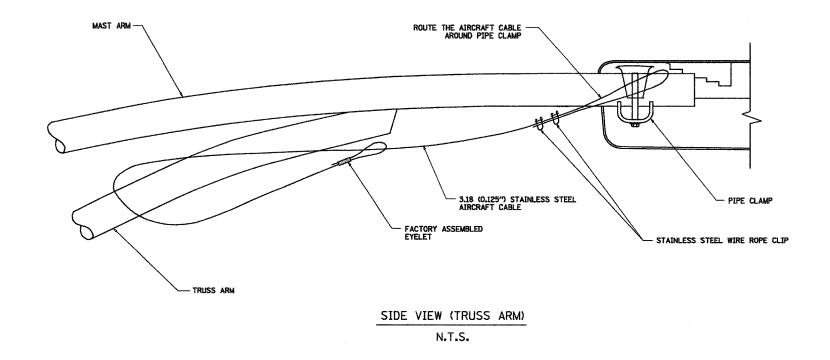
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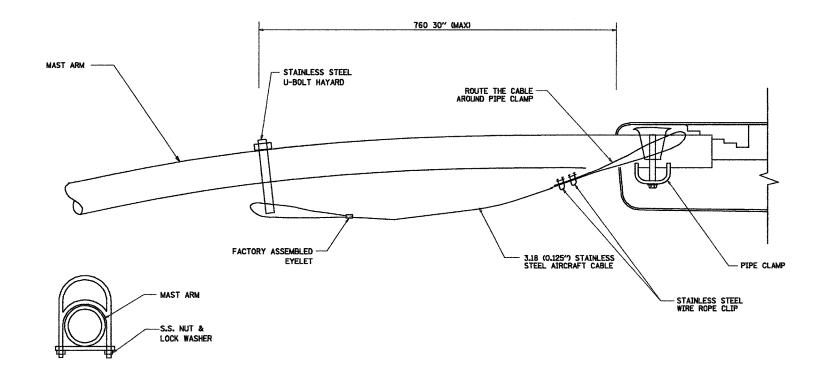
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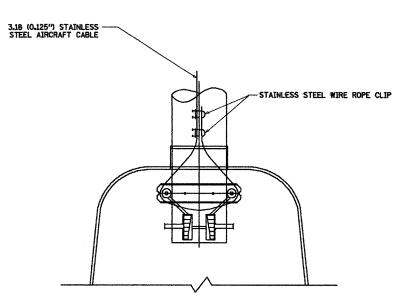
E-301

BE301









BOTTOM VIEW N.T.S.

NOTES

- 1. ALL DIMENSIONS ARE IN MILLIMETERS (INCHES)
 UNLESS OTHERWISE SHOWN
- 2. CONTRACTOR SHALL ADJUST THE WIRE CLIP TO ELIMINATE ANY SLACK FROM THE WIRE ROPE.
- 3. THE 3.18 (0.125") STAINLESS STEEL AIRCRAFT CABLE SHALL REMAIN VISIBLE FROM THE GROUND LEVEL
- 4. THE BREAKING STRENGTH OF THE CABLE SHALL BE 1700 LBS. MIN

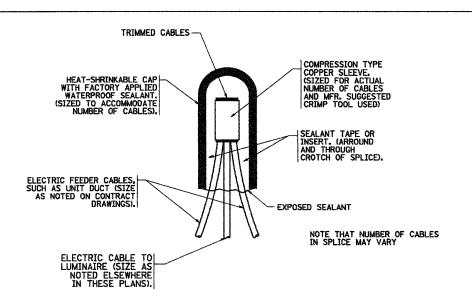
REVISIONS ILLINOIS DEPARTMENT OF TRANSPORTATION	
NAME DATE ILLINOIS DEPARTMENT OF TRANSPORTATION	
LUMINAIRE SAFETY	
CABLE ASSEMBLY	
LANCE CONTRACTOR OF THE PROPERTY OF THE PROPER	
SCALE: VERT. DRAWN BY	
DATE: 2/15/2006 CHECKED BY	
BE-701	

STAINLESS STEEL U-BOLT HAYARD

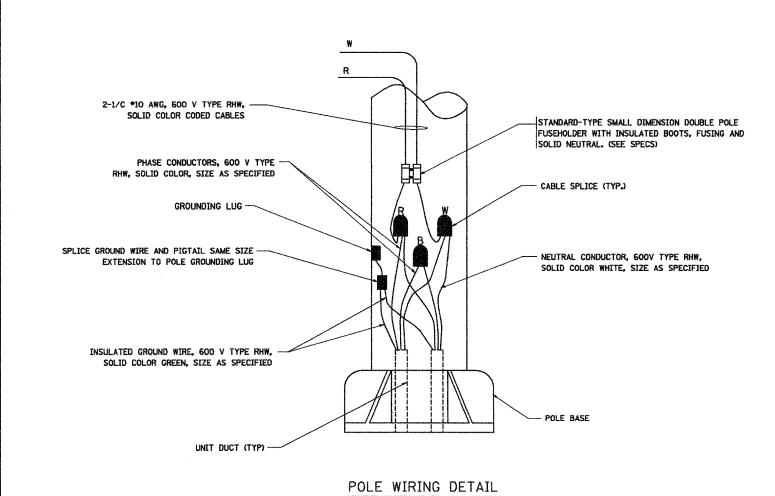
DATE = 2/15/2006
NAME = ulvdsstarbe7
SCALE = 58.068 // IN.
NAME = geglionobt

N.T.S.

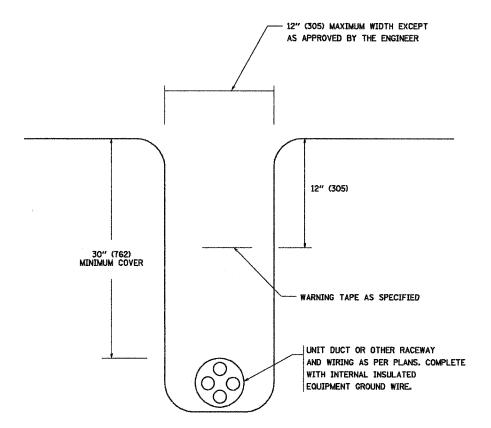
SIDE VIEW (SINGLE MEMBER OR DAVIT ARM)



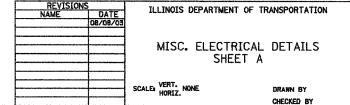
TYPICAL SPLICE DETAIL N.T.S.



N.T.S.



TYPICAL WIRING IN TRENCH DETAIL
N.T.S.



CHECKED BY BE-702

CONTRACT NO.

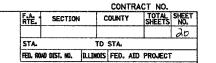
COUNTY

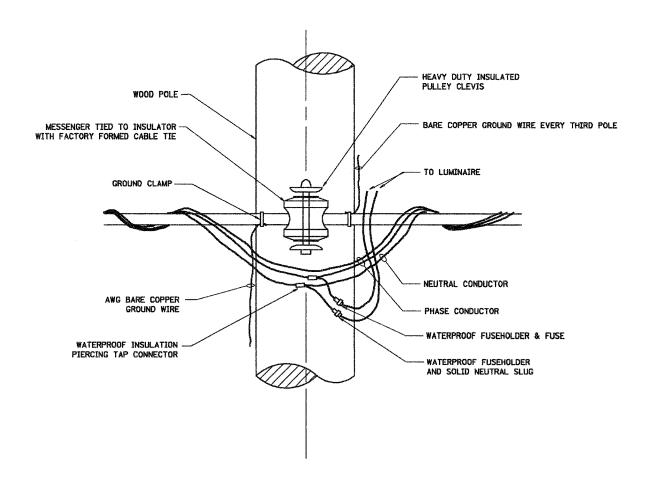
STA. TO STA.

FED. ROAD DIST. NO. | ILLENOIS | FED. AID PROJECT

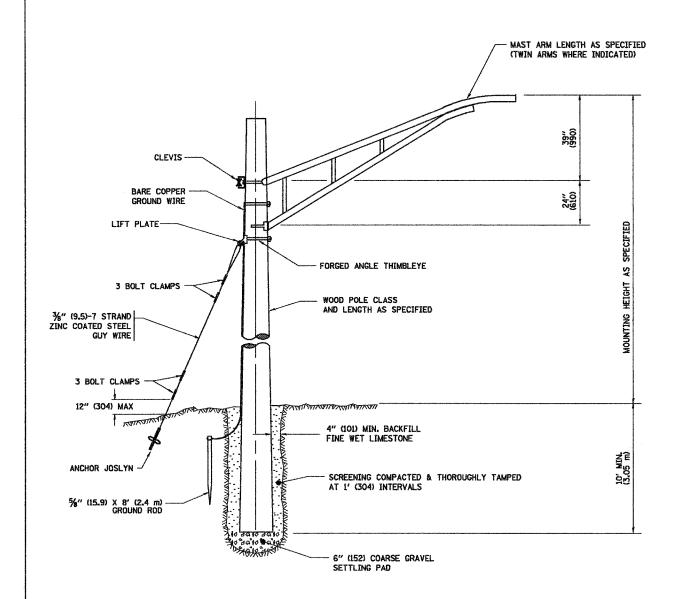
F.A. SECTION

IATE = 4/18/2087 NAME = KA\dastatdbo702.dgn SCALE = 68.008 / IN. NAME = beuserdl





TEMPORARY LIGHT POLE ATTACHMENT DETAIL



TEMPORARY LIGHT POLE DETAIL

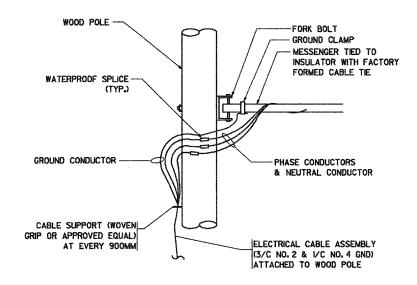
NOTES:

1. ALL DIMENSIONS IN INCHES (MILLIMETERS) UNLESS OTHERWISE INDICATED

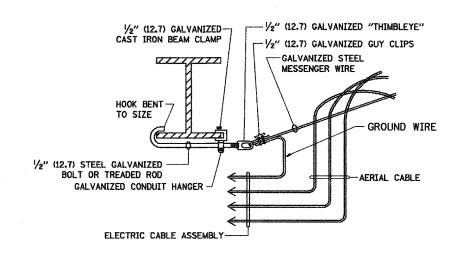
REVISIONS		THE THOT'S DEPARTMENT	NT OF TRANSPORTATION
NAME	DATE	ILLINOIS DE ANIME	RE OF TRANSFORTATION
	08/08/03		
		TEMPORARY	/ LIGHT POLE
		DE.	TAILS
		UL.	IMILO
		SCALE VERT. NONE	DRAWN BY
		HORIZ.	
			CHECKED BY
			BE-800

DT DATE = 4/18/2887 LE NAME = KI\datatat\be268.dgn DT SCALE = 08.888 / IN.

CONTRACT NO. F.A. SECTION COUNTY TO STA. FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT



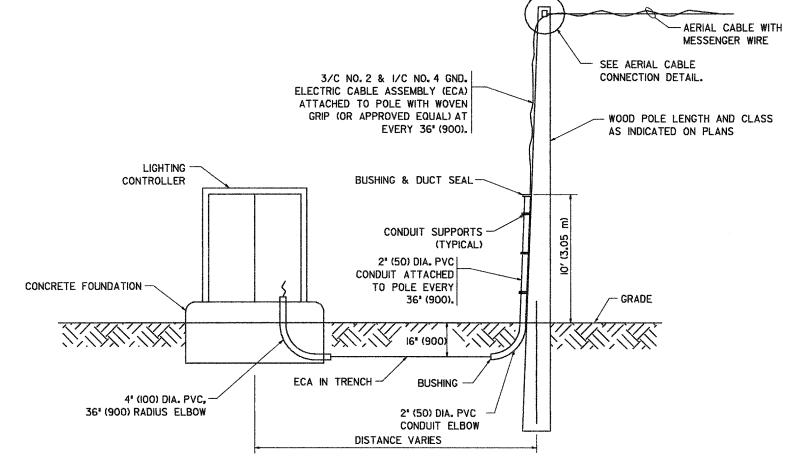
AERIAL CABLE CONNECTION DETAIL



AERIAL CABLE ATTACHED TO STRUCTURE NOT TO SCALE

NOTES:

- 1. ALL DIMENSIONS IN INCHES (MILLIMETERS) UNLESS OTHERWISE INDICATED.
- 2. SEE PROPOSED LIGHTING PLAN FOR CONDUIT, CABLE AND ROUTING.
- 3. THE CONTRACTOR SHALL PROVIDE INTERMEDIATE SUPPORTS TO MAINTAIN MINIMUM CLEARANCES. REFER TO AERIAL AERIAL CABLE ATTACHED TO STRUCTURE DETAIL.
- 4. COST OF SPLICES AND MOUNTING HARDWARE SHALL BE INCLUDED IN THE UNIT PRICE FOR AERIAL CABLE.



WOOD POLE TO LIGHTING CONTROLLER WIRING CONNECTION DETAIL N.T.S.

ILLINOIS DEPARTMENT OF TRANSPORTATION

TEMPORARY AERIAL CABLE INSTALLATION

SCALE VERT. NONE

DRAWN BY CHECKED BY BE-801

DATE MAKE BCALE NAME