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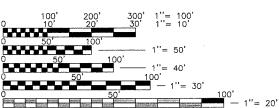
STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS**

PLANS FOR PROPOSED FEDERAL AID URBAN PROJECT

F.A.U. ROUTE 2736 SHERIDAN ROAD (BELVIDERE ROAD TO GRAND AVENUE) ROADWAY RECONSTRUCTION AND TRAFFIC SIGNALS **SECTION No. 03-00227-00-RS** PROJECT No. M-8003 (453) CITY OF WAUKEGAN LAKE COUNTY, ILLINOIS C-91-190-04

[123-126 Lighting Controller, Ouplex Type - Detail) Added 9-10-07 **DESIGN DESIGNATION: URBAN MINOR ARTERIAL**

> **SCALES** PLAN 1"=20 PROFILES 1"=20' (HORIZONTAL) 1"=2' (VERTICAL) CROSS SECTION 1"=5"



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.



GROSS LENGTH OF PROJECT = NET LENGTH OF PROJECT =

SPEED LIMIT POSTED SPEED: 30 MPH DESIGN SPEED: 35 MPH TRAFFIC DATA ADT: 7300 (2005) 11542 (2030)

LOCATION OF SECTION INDICATED THUS:

CITY OF WAUKEGAN 07/09/07 al More CITY OF WAUKEGAN, CITY ENGINEER CHRISTOPHER HOLT DISTRICT, ONE ENGINEER OF LOCAL ROADS & STREETS Dione O'Keekelons DEPUTY DIRECTOR OF HIGHWAYS, REGION ONE ENGINEER





DOUBD-

DANIEL B. DREW ILLINOIS LICENSED PROFESSIONAL ENGINEER NO. 062-055312

PROJECT ENDS STA. 47+90 GRAND AVE CLAYTON ST MADISON ST WASHINGTON ST **PROJECT** LOCATION WATER ST LAKE ST LIBERTY ST **PROJECT BEGINS** STA. 5+05

R 12 E

4285 FEET 4285 FEET

2736 03-00227-00-RS LAKE

COUNTY

SECTION

-W:\dwg\WK\SHERIDAN-RD\Sher-CvrNoteDet.dwg 7/6/2007 1:32:26 PM CDT

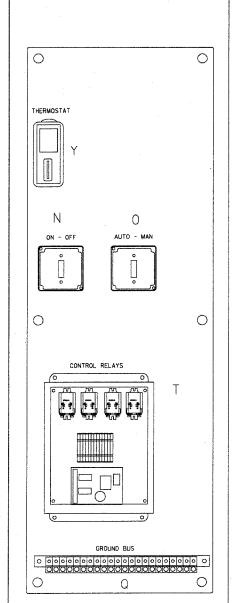
EXPIRATION DATE 11/30/07

PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

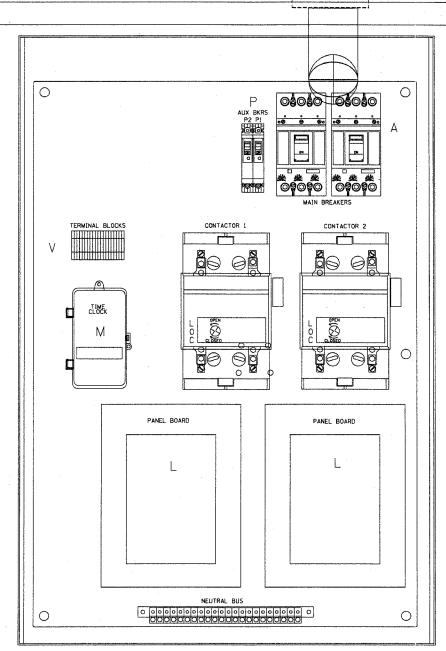
CONTRACT NO. 83829

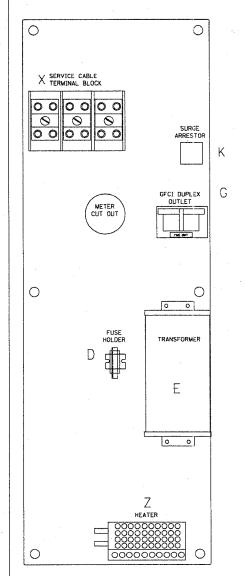
FILE SECTION COUNTY TOTAL SHEET

277603-00272-0-03 1045 271603-00227-00-RX LAKE STA. TO STA. TO STA. FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT



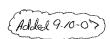
LEFT SIDE PANEL





RIGHT SIDE PANEL

I TEM *	OTY	DESCRIPITON
1124	<u> </u>	
A	2	FXD62B175 BREAKERS 2 POLE 175 AMP WITH AUX CONTACT
C1,C2	2	MECHANICAL CONTRACTOR 8903PBV10X11V39 2 POLE 200 AMP 240V COIL WITH AUX CONTACTS
D	1	SECTIONAL FUSE HOLDER
E	1	1.5 KVA 277V-240/120 TRASFORMER
G	1	15 AMP GFCI
н	2	DOOR SWITCH
I	1	LIGHT FIXTURE
J	1	METER FITTING 1 PHASE 3 WIRE 200 AMP
ĸ	,1	SURGE ARRESTER
L	2	PANEL BOARD 480/240V 1 PHASE, 250 AMP COPPER BUS
M	1	2 CHANNEL DIGITAL TIME CLOCK
N	1	MOMENTARY SWITCH ON - OF
0	1	DPDT 20 AMP AUTO-MANUAL
P1	1	BREAKER IP 15A
P2	1	BREAKER IP 15A
o	2	COPPER GROUND AND NEUTRAL BUS 1 X 16 X 1/4
.Т	, test	CONTROL RELAY ASSEMBLY 240V COILS WITH DPDT 25 AMP RELAYS (R1,R2,R3,R4). MOMENTARY CONTACT ADAPTER. OTY 12 TERMINAL BLOCKS
v	20	TERMINAL BLOCKS
x	1	620 AMP SPLICE BLOCK
Y	1	CHROMALOX WR 80, 40-80 DEG THERMOSTAT
Z	1	HEATREX 276-10 375 WATT HEATER

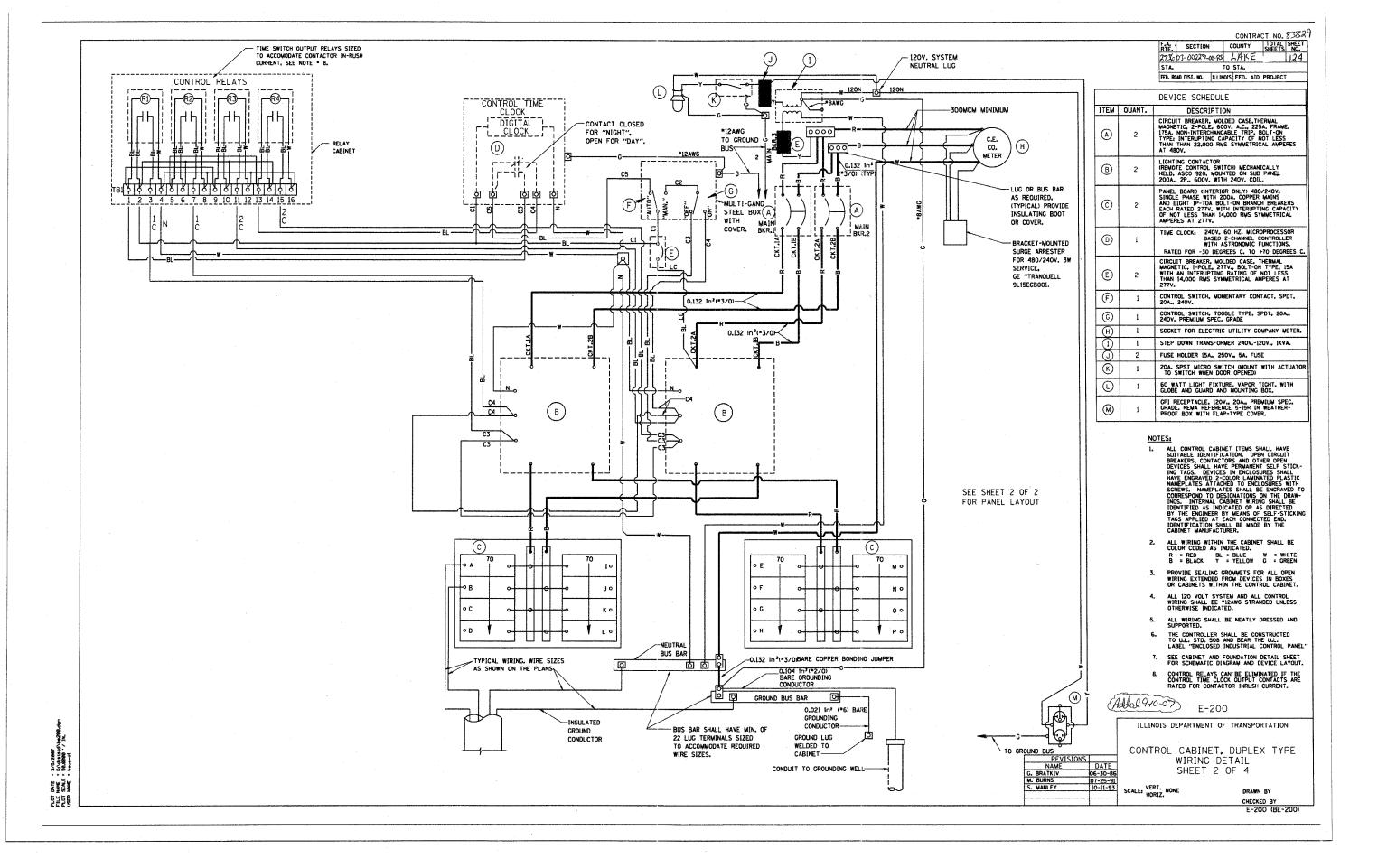


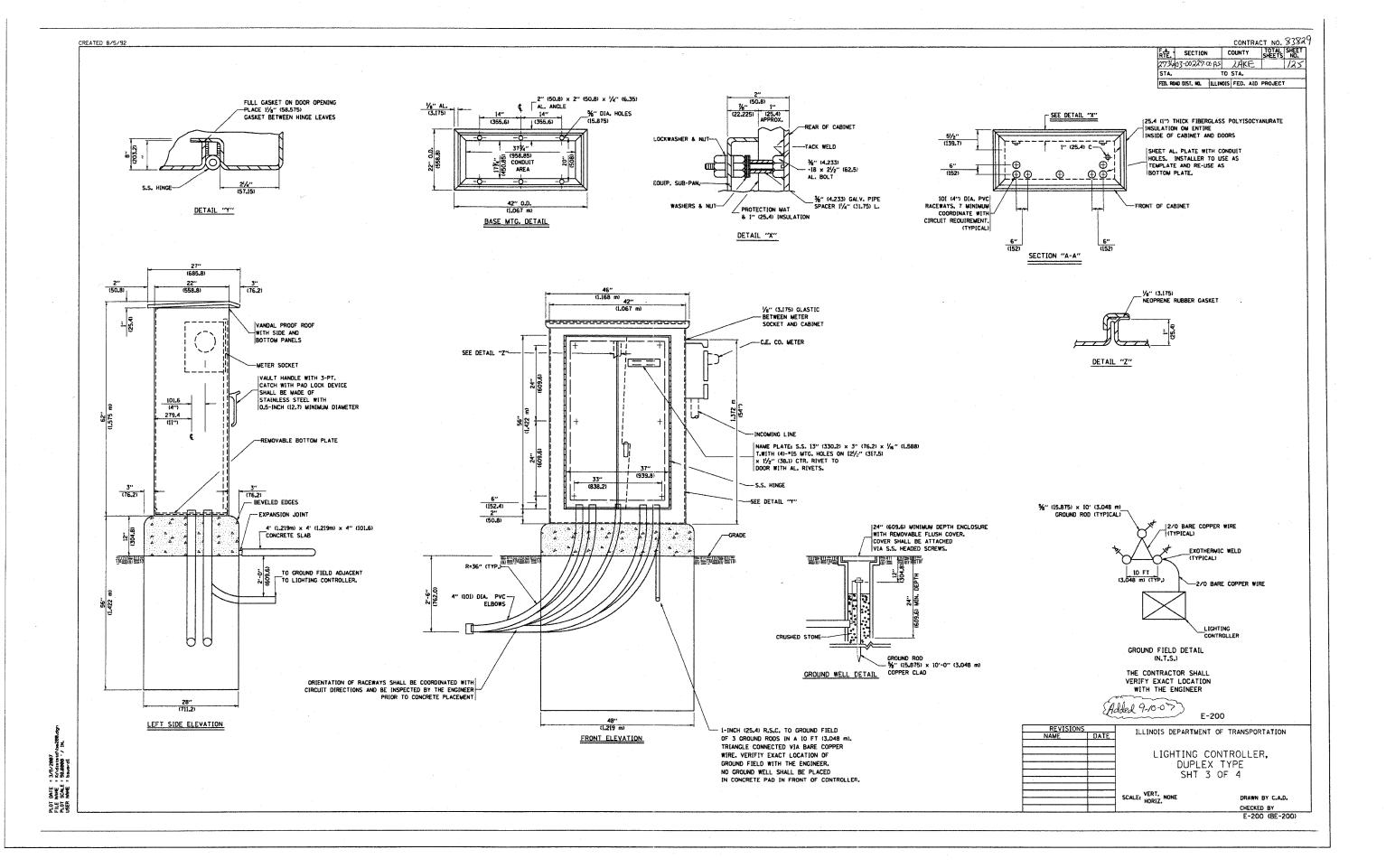
F-200

		SCALE: VERT. NONE	DRAWN BY CADD
			1 OF 4
			CONTROLLER EX TYPE
NAME	DATE 12/18/02	ILLINOIS DEPARTMEN	T OF TRANSPORTATION
REVISIONS		THE THORE OF BANKERS	T OF TRANSPORTATION
		L 200	

PLOT DATE - 4/18/2887 FILE NAME - KNOINESCANDEZ88.dgn PLOT SCALE - 49,5999 - / IM. USER NAME - bowardl

CHECKED BY E-200 (BE-200)





_	F.A. SECTION		COUNTY		Y	TOTAL	SHEE
	2706	03-00227-1	XX-RS				129
	STA.		TC	STA.			
	EED DO	AN DIST NO	TO A SMOOT	S EED	AID	PPA JECT	

NOTES

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

R - RED Y - YELLOW

B - BLACK W - WHITE

BL- BLUE G - GREEN

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

E-200

REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION
NAME	DATE	ILLINOIS DEFARIMENT OF TRANSFORTATION
		LIGHTING CONTROLLER
		DUPLEX TYPE
		SHT 4 OF 4
		5/13 1 0/ 1

DRAWN BY CADD E-200 (BE-200)

DATE NAME SCALE PLOT FILE USER