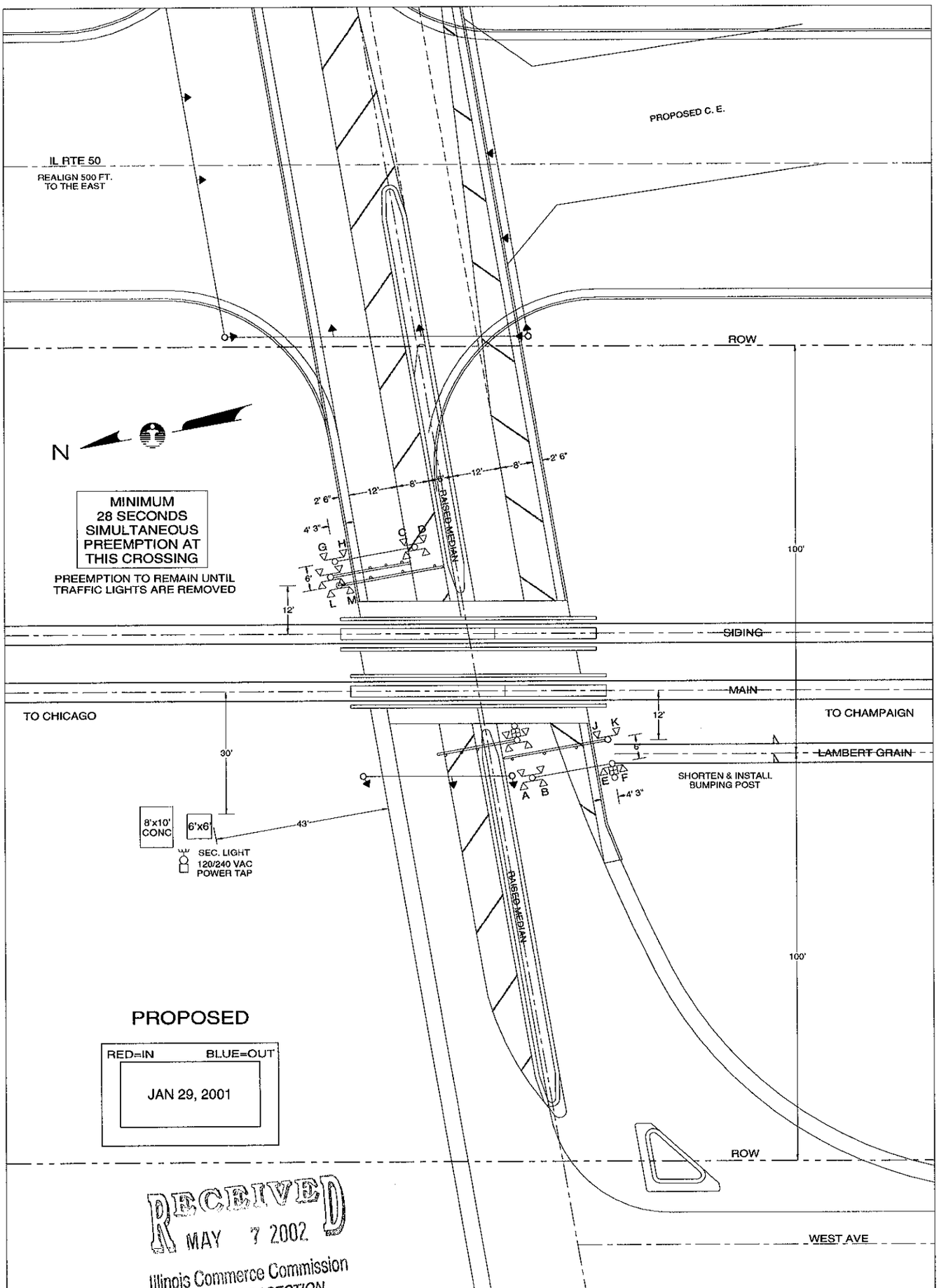


RECEIVED
MAY 7 2002
Illinois Commerce Commission
RAIL SAFETY SECTION

QUADRANT	NE	SW
STANDARD AFLS	LED	LED
CANTILEVER, FT.	20	20
GATE, FT.	26	26
ADDED LIGHTS	-	-
BARRICADE	-	-
MULTI-TK SIGN	-	-
BELL	-	X
REVISIONS		

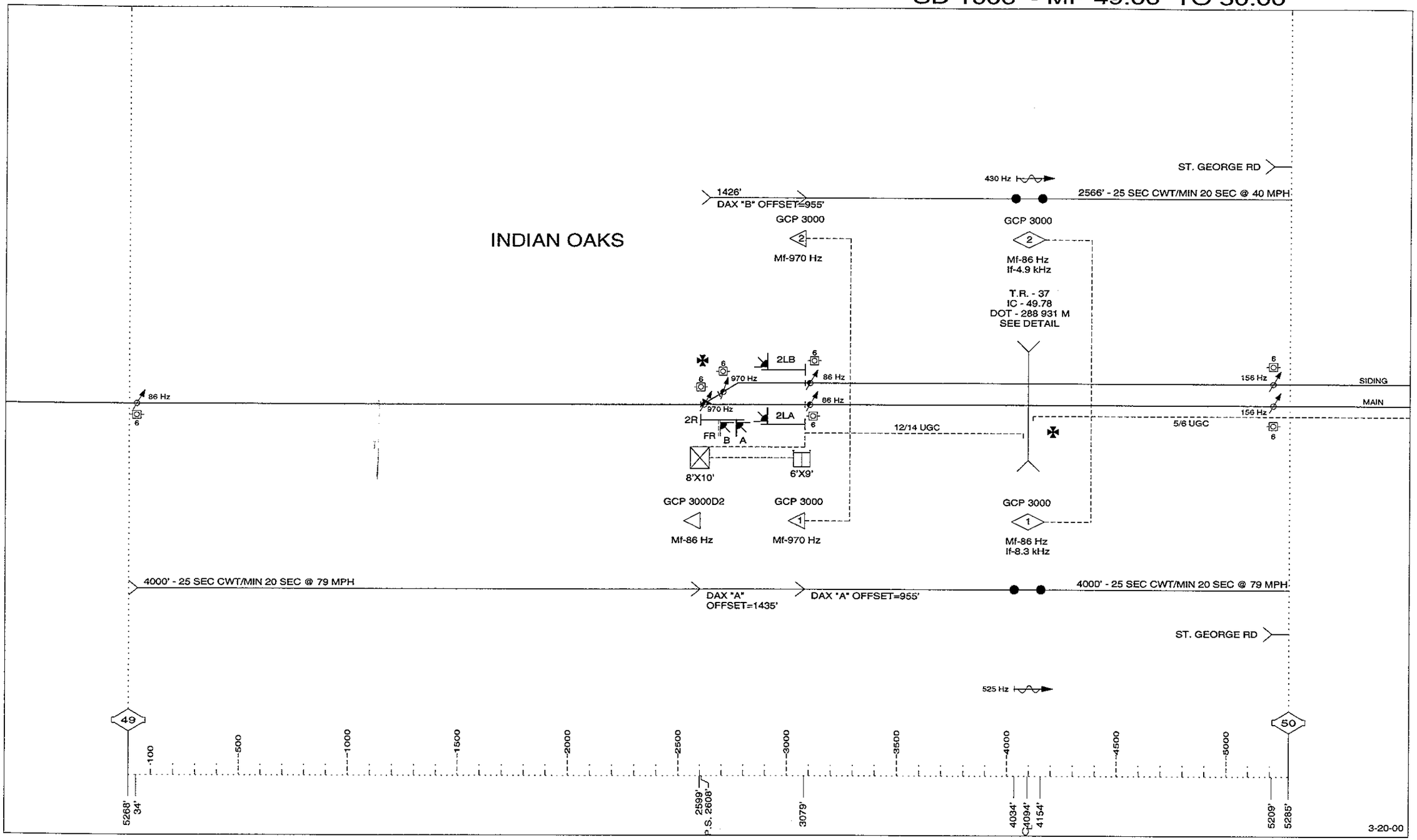
Illinois Central

COMMUNICATIONS & SIGNALS,
ENGINEERING DEPARTMENT

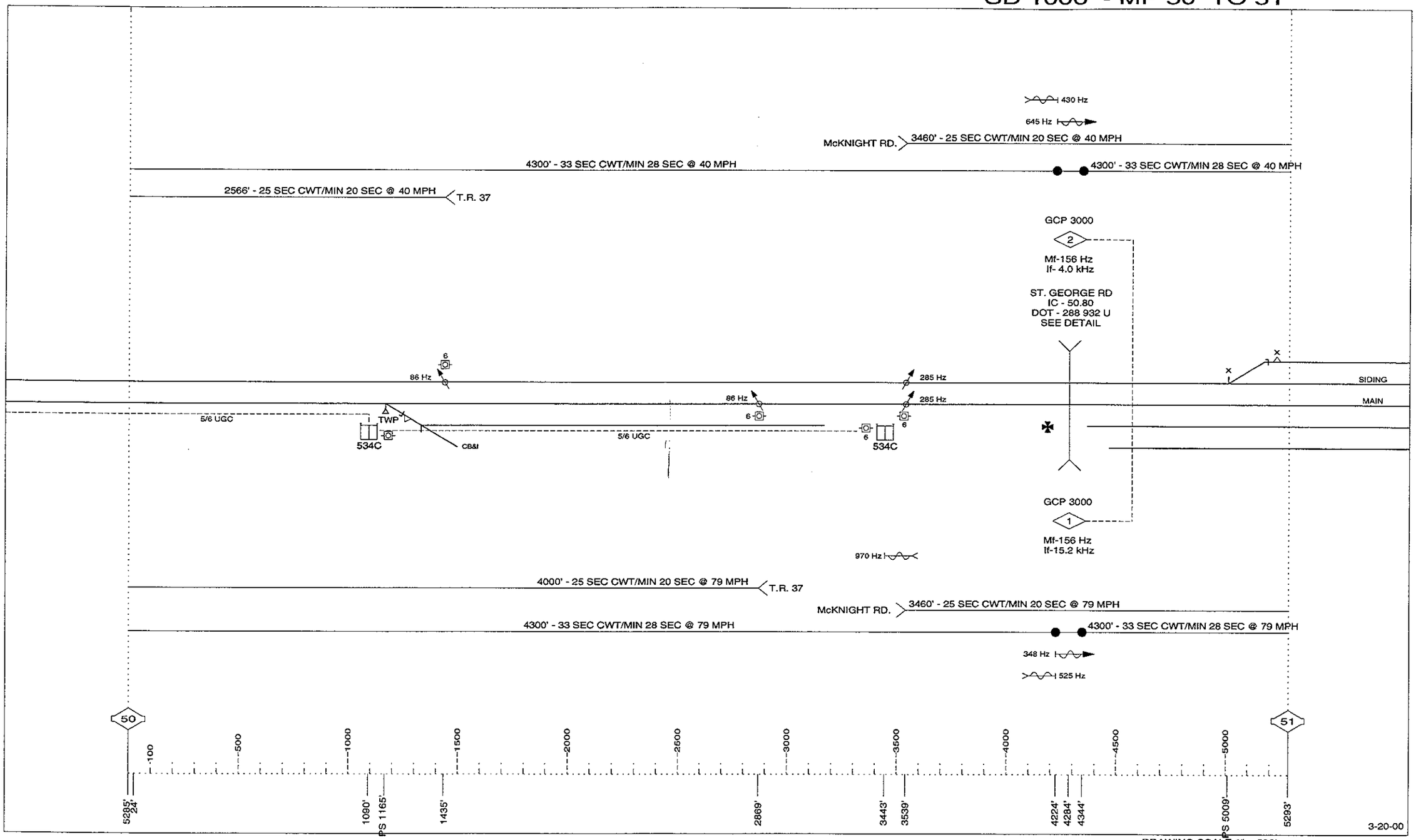
CITY & STATE: BOURBONNAIS, IL	SD 1006X
CROSSING: ST GEORGE ROAD - C.H. 8	DATE: DEC 10, 2000
IC - 50.80	DOT - 288 932U
MIDWEST DIVISION	CHICAGO SUBDIVISION

E:\DWG\CHI\05080X.CAD	IN SERVICE: 10/2/1923	SCALE: 1"=30'	DRAWN BY: AVS

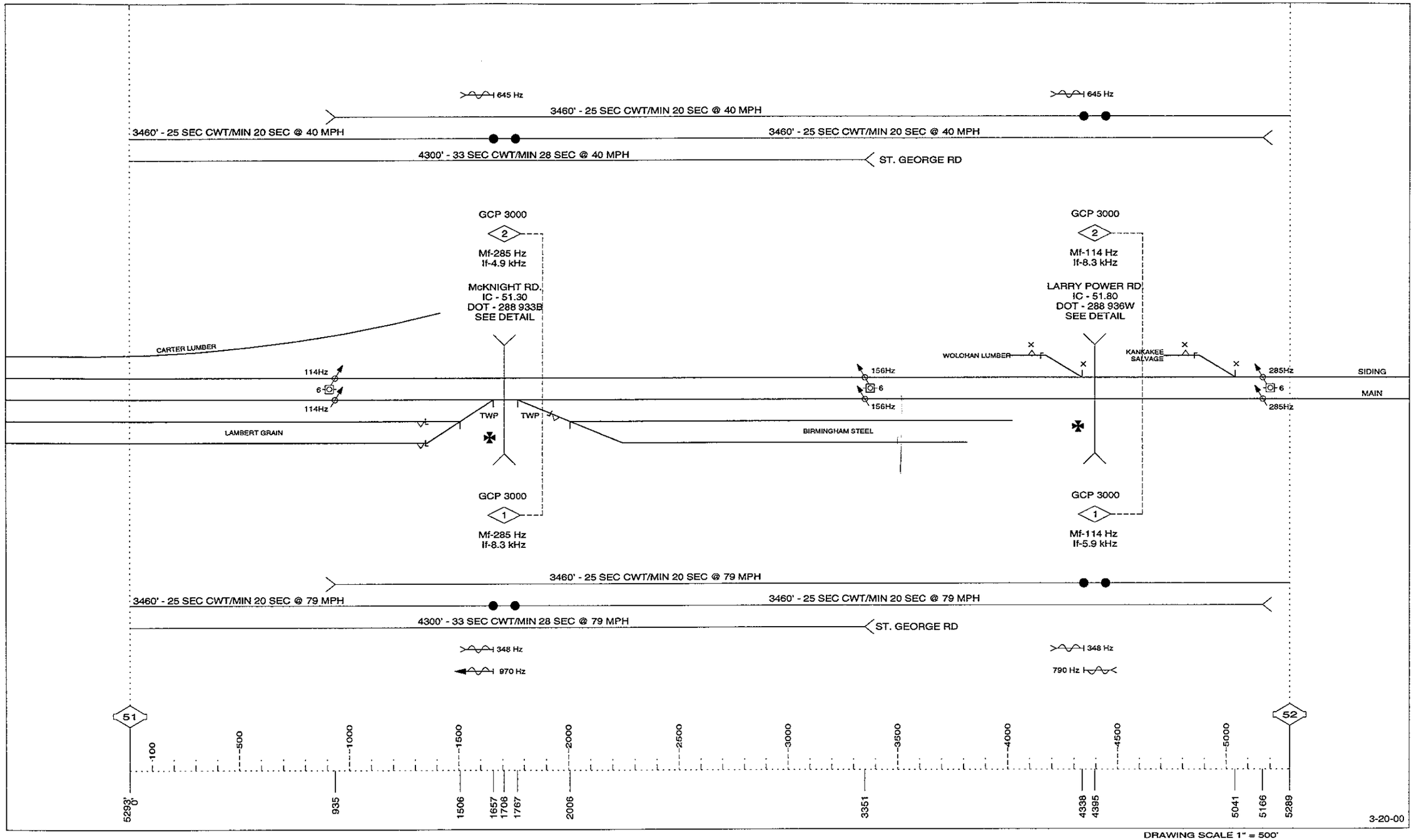
SD 1006 - MP 49.00 TO 50.00



SD 1006 - MP 50 TO 51



SD 1006 - MP 51 TO 52



REVISIONS			
NO.	DATE	BY	DESCRIPTION	APP. BY
1			
2			
3			
4			
5			

■ PRESS PROGRAM KEY

NUMBER OF TRACKS (NUMBER OF TRANSCEIVER MODULES)	1 ☐	2 ☑
FREQUENCY (WS/GCP)	T1: 156 Hz	
	T2: 156 Hz	
UNIDIRECTIONAL/BIDIRECTIONAL	T1: UNI ☐	BI ☑
	T2: UNI ☐	BI ☑
XMIT LEVEL	T1: MAX ☑	MED ☐
	T2: MAX ☑	MED ☐
PREDICTOR/MOTION SENSOR	T1: PRED ☑	WS ☐
	T2: PRED ☑	WS ☐
WARNING TIME SELECTED	T1: 33 SEC.	
	T2: 33 SEC.	
APPROACH DISTANCE SELECTED (NOTES 2,4 & 6)	T1: 4300 FT.	
	T2: 4300 FT.	
APPROACH DISTANCE COMPUTED (NOTES 1,4,6 & 9)	T1: ____ FT.	
	T2: ____ FT.	
UAX PICKUP DELAY (UAX 1) (0 = OFF)	0 SEC.	
ENA / UAX2 DELAY (0 = ENA)	0 SEC.	
ISLAND DISTANCE (BETWEEN ISLAND TRACK WIRE CONNECTIONS) (NOTES 2,4 & 6)	T1: 120 FT.	
	T2: 120 FT.	
NUMBER OF DAXS	0 ☐ 1 ☐ 2 ☑ 3 ☐ 4 ☐	
DAX A TRACK ASSIGNMENT	T1 ☑	T2 ☐
DAX A DISTANCE (0 = PREEMPT) (NOTES 2,4 & 6)	0 FT.	
DAX A WARNING TIME	33 SEC.	
DAX B TRACK ASSIGNMENT	T1 ☐	T2 ☑
DAX B DISTANCE (0 = PREEMPT) (NOTES 2,4 & 6)	0 FT.	
DAX B WARNING TIME	33 SEC.	
DAX C TRACK ASSIGNMENT	T1 ☐	T2 ☐
DAX C DISTANCE (0 = PREEMPT) (NOTES 2,4 & 6)	N/A FT.	
DAX C WARNING TIME	N/A SEC.	
DAX D TRACK ASSIGNMENT	T1 ☐	T2 ☐
DAX D DISTANCE (0 = PREEMPT) (NOTES 2,4 & 6)	N/A FT.	
DAX D WARNING TIME	N/A SEC.	
SLAVING MASTER/SLAVE	MASTER ☑	SLAVE ☐
PASSWORD ENABLED	DISABLED ☐ ENABLED ☑	
RECORDER INSTALLED (NOTE 11)	NOT INSTALLED ☐ INSTALLED ☑	
RS-232-C BAUD RATE	____ BPS	
RS-232-C DATA BITS	7 ☐	8 ☐
RS-232-C STOP BITS	1 ☐	2 ☐
RS-232-C PARITY	NONE ☐ ODD ☐ EVEN ☐	MARK ☐ SPACE ☐
DATE (E.G., MON 16 NOV 1987) (NOTE 2)	____	
TIME (E.G., 11:25:43 AM) (NOTE 2)	____	
DAYLIGHT SAVINGS	ON ☐	OFF ☐

■ PRESS FUNCTION KEY

SWITCH TO MS (ENTER EZ VALUE) (NOTES 2,4 & 5)	T1: 7 EZ	
	T2: 7 EZ	
TRANSFER DELAY MS TO GCP (0 = OFF)	T1: 0 SEC.	
	T2: 0 SEC.	
PRIME PREDICTION OFFSET (0 = OFF) (NOTES 2,4 & 6)	T1: 0 FT.	
	T2: 0 FT.	
PICKUP DELAY PRIME	AUTOMATIC ☐ FIXED ☑	15 SEC.
PICKUP DELAY DAX A	AUTOMATIC ☐ FIXED ☑	15 SEC.
PICKUP DELAY DAX B	AUTOMATIC ☐ FIXED ☑	15 SEC.
PICKUP DELAY DAX C	AUTOMATIC ☐ FIXED ☐	N/A SEC.
PICKUP DELAY DAX D	AUTOMATIC ☐ FIXED ☐	N/A SEC.
COMPENSATION VALUE (NOTES 3 & 4)	T1: ____	
COMPENSATION VALUE (NOTES 3 & 4)	T2: ____	
ENHANCED DETECTION (NOTES 6 & 9)	T1: ON ☐	OFF ☑
ENHANCED DETECTION (NOTES 6 & 9)	T2: ON ☐	OFF ☑
BACK TO BACK T1 & T2 (WHEN ENHANCED DETECTION IS ON)	NO ☐	YES ☐
STATION STOP TIMER (WHEN ENHANCED DETECTION IS ON)	T1: N/A SEC.	
	T2: N/A SEC.	
NUMBER OF TRACK WIRES	T1: 4 ☑	6 ☐
NUMBER OF TRACK WIRES	T2: 4 ☑	6 ☐
LOW EX ADJUSTMENT (NOTES 2,4,6 & 7)	T1: 0 EX	
	T2: 0 EX	
LOW EZ DETECTION	T1: ON ☐	OFF ☑
	T2: ON ☐	OFF ☑
LOW EZ DETECTION TIMER (WHEN LOW EZ DETECTION IS ON)	T1: N/A MIN.	
	T2: N/A MIN.	
POSITIVE START (0 = OFF) (ENTER EZ VALUE) (NOTES 2,4 & 10)	T1: ____ EZ	
	T2: ____ EZ	
POSITIVE START TIMEOUT (0 = NONE)	T1: 0 MIN.	
	T2: 0 MIN.	
SET "AT" OPERATION	NORMAL ☑	DIAGNOSTIC ☐
DIAGNOSTIC MESSAGES	ON ☐	OFF ☑
DAX MESSAGES	ON ☐	OFF ☑
ADVANCE PREEMPT TIMER	0 SEC.	

EXPANDED PROGRAMMING

1) COMPUTED BY SYSTEM DURING CALIBRATION

2) PROGRAMMED AT INSTALLATION DURING CALIBRATION PROCEDURE

3) THE COMPENSATION VALUE IS PROVIDED BY THE 3000 GCP SYSTEM AND NO ADDITIONAL PROGRAMMING IS NORMALLY REQUIRED. DO NOT CHANGE VALUE WITHOUT PROPER INSTRUCTION

4) INDICATE READING OR SELECTION IN SPACE PROVIDED

5) EACH CONSTANT WARNING DEVICE SYSTEM TO BE PROGRAMMED TO CONVERT TO A MOTION SENSOR 300 FEET FROM EDGE OF ROAD TRAVELLED WAY.
SHUNT TRACK 300 FEET FROM EDGE OF ROAD TRAVELLED WAY AND NOTE "EZ" VALUE.
PROGRAM EACH SYSTEM WITH THE INDICATED "EZ" VALUE +2.

6) REFER TO MODEL 3000 GCP INSTRUCTION AND INSTALLATION MANUAL FOR PROGRAMMING PARAMETERS.

7) "LOW EX" THRESHOLD IS FACTORY PRESET AND NO ADDITIONAL PROGRAMMING IS NORMALLY REQUIRED.
IMPROPER REDUCTION OF THE "LOW EX" THRESHOLD MAY CAUSE REDUCTION IN WARNING TIME.
DO NOT CHANGE VALUE WITHOUT PROPER INSTRUCTION.

8) T1-ISLAND FREQUENCY TO BE PROGRAMMED AT 15.2 KHz
T2-ISLAND FREQUENCY TO BE PROGRAMMED AT 4.0 KHz

9) **SET UP APPROACH LENGTH AND LINEARIZATION CALIBRATION**
VERIFY THAT "ENHANCED DETECTION" MODE IS PROGRAMMED "OFF" BEFORE ATTEMPTING LINEARIZATION PROCEDURES.

10) EACH CONSTANT WARNING DEVICE SYSTEM TO BE PROGRAMMED USING POSITIVE START FUNCTION.
SHUNT TRACK 300 FEET FROM EDGE OF ROAD TRAVELLED WAY AND NOTE "EZ" VALUE.
PROGRAM THE SYSTEM WITH THE INDICATED "EZ" VALUE.

11) GCP/WS NODES MUST BE INSTALLED ON THE SEA/R BEFORE RECORDER MODULE 80255 CAN BE INSTALLED.

CALIBRATION HISTORY

CALIBRATION HISTORY						LINEARIZATION HISTORY (NOTE 9)									
		EZ/EX VALUES (TRACK UNOCCUPIED)				HARDWIRE SHUNT AT TERMINATION SHUNT				HARD WIRE SHUNT AT 50 PERCENT POINT OF SHUNT					
		EZ		EX		EZ VALUE		50 PERCENT OF EZ VALUE		NO LINEARIZATION		LINEARIZATION COMPLETE			
										EZ VALUE		STEP±		EZ	
		NORMAL	STANDBY	NORMAL	STANDBY	NORMAL	STANDBY	NORMAL	STANDBY	NORMAL	STANDBY	NORMAL	STANDBY	NORMAL	STANDBY
EAST	TRACK 1		N/A		N/A		N/A		N/A		N/A		N/A		N/A
WEST	TRACK 1		N/A		N/A		N/A		N/A		N/A		N/A		N/A
EAST	TRACK 2		N/A		N/A		N/A		N/A		N/A		N/A		N/A
WEST	TRACK 2		N/A		N/A		N/A		N/A		N/A		N/A		N/A

PROPOSED
DES. No. ____
RED-IN YELLOW-OUT
AS INSTALLED
DATE ____
BY ____

PROPOSED			REVISIONS	D	C	COMPLETED			C
D	M	Y				D	M	Y	

DIVISION MIDWEST
SUB. CHICAGO
SD. 1006 C
MP. 50.70 TO 50.90

SIGNALS AND COMMUNICATIONS MONTREAL — DES. JDT
1 FEBRUARY 2002 — CH. JEM

GCP 3000
PROGRAM DATA (MODULE #80214)
ST. GEORGE RD.
BOURBONNAIS, IL

05070C06

SAFETRAN SYSTEMS CORPORATION
DES. : JDT — DATE: 2/1/02 — JOB NO. : 02012010
CKD. : JEM — ISSUE DATE: N/A — EST. NO. : N/A
DRN. : JDT — PLAN NO. : N/A — SHEET N/A OF N/A
P TIME: 08:46 — P DATE: 11-MAR-2002 — CAD ID. : 05070C06.DGN

SAFETRAN SYSTEM CORP.
LOUISVILLE DIVISION, LOUISVILLE, KY