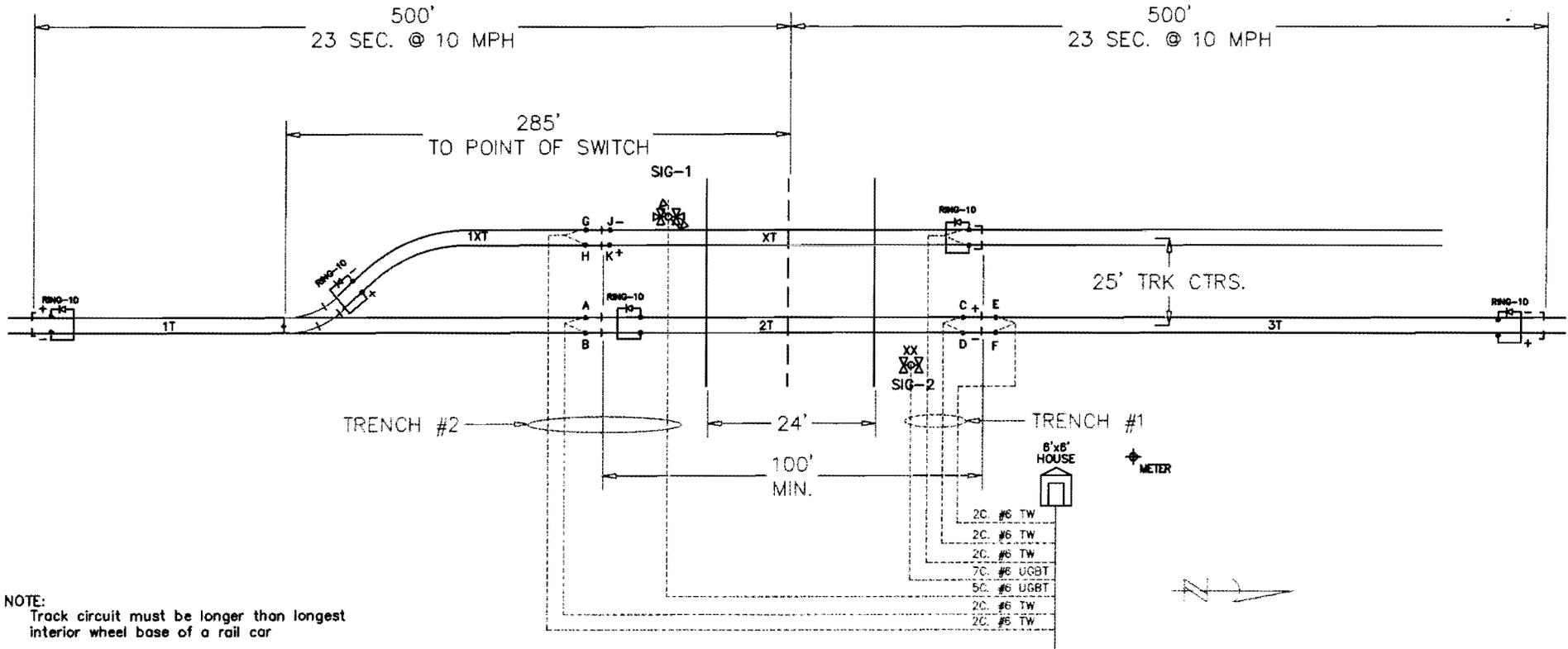


RECEIVED

MAY 6 2009

Illinois Commerce Commission  
RAIL SAFETY SECTION



NOTE:  
Track circuit must be longer than longest interior wheel base of a rail car

All traffic control devices shall be consistent with the design and application of the standards contained in the "Manual on Uniform Traffic Control Devices", provided by the U.S. Department of Transportation and Federal Highway Administration.

ESTIMATED TOTAL CABLE REQUIREMENTS  
200FT. 5-COND. #6 UGBT  
50FT. 7-COND. #6 UGBT  
500FT. 2-COND #6 TWISTED TRACK WIRE

LEGEND

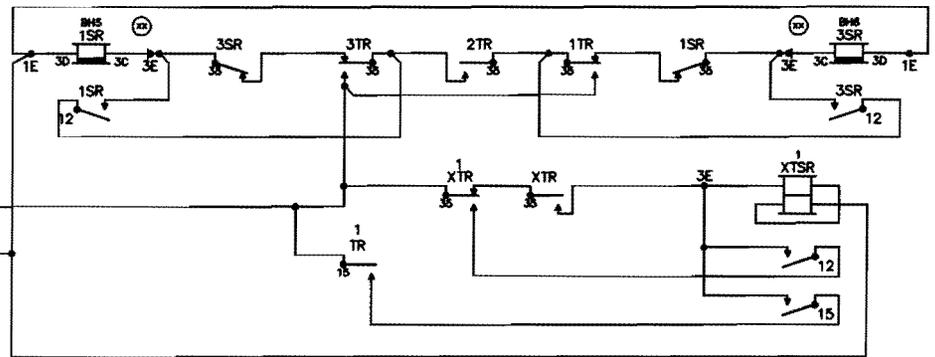
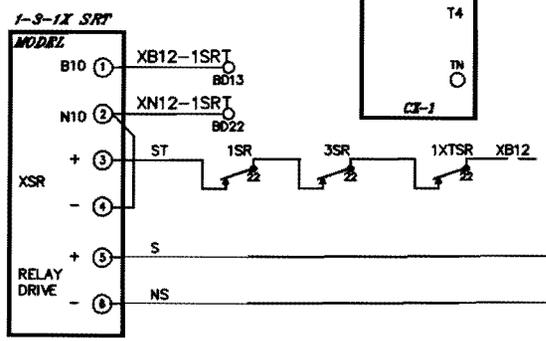
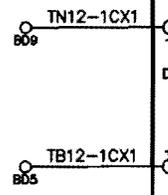
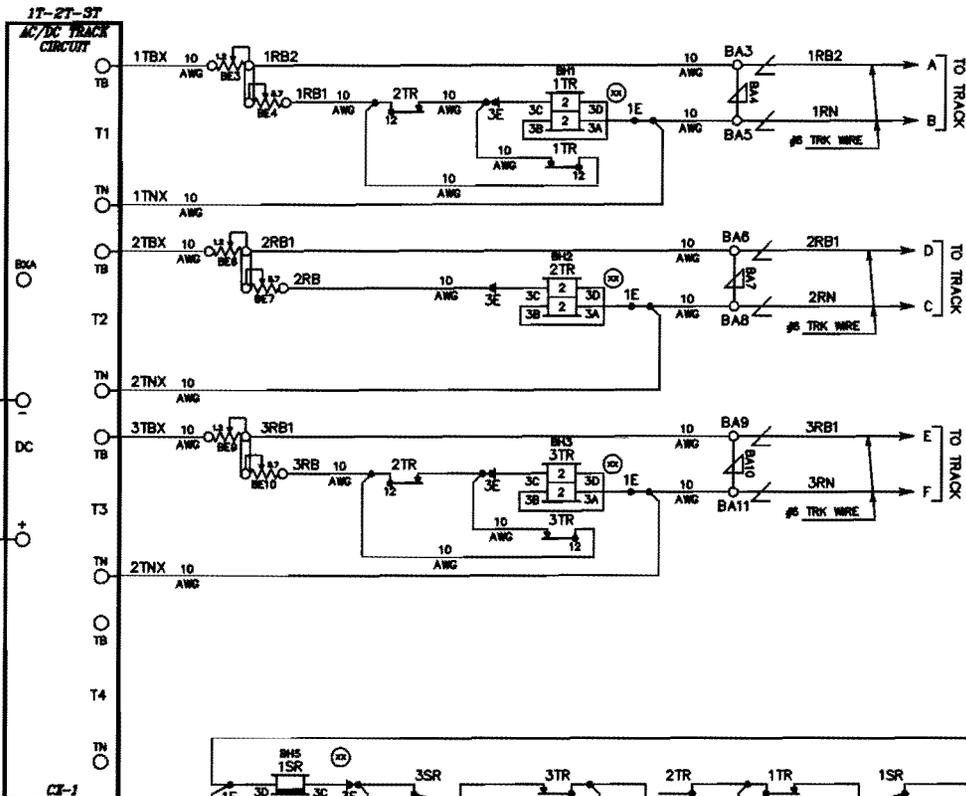
1. = ONE WAY INDICATION FLASHING LIGHT SIGNAL
2. = TWO WAY INDICATION FLASHING LIGHT SIGNAL
3. = THREE WAY INDICATION FLASHING LIGHTS WITH TRAIN SIGNAL LIGHTS
4. XX = BELL
5. = RING 10 TRACK RECTIFIER
6. = INSULATED RAIL JOINT

THE OPERATION OF THE CIRCUITS AND EQUIPMENT REPRESENTED CANNOT BE FINALLY CHECKED UNTIL CONNECTED TO FORM A COMPLETE SYSTEM OR PORTION OF SUCH SYSTEM. SUCH SYSTEM OR PORTION OF SUCH SYSTEM MUST UNDERGO A COMPLETE CIRCUIT CONTACT SELECTION (BREAKDOWN) & SERVICE (OPERATIONAL) TEST PRIOR TO BEING PLACED INTO SERVICE.

L&W INDUSTRIES, INC.  
SPRINGFIELD, MO

DATE	10/01/07
DESIGNED	L&W INDS.
DRAWN	L&W INDS.
CHECKED	

THE BLOOMER LINE GIBSON CITY, IL		ILLINOIS ROUTE 116 INSULATED JOINT LAYOUT DIAGRAM CULLOM, ILLINOIS	
DATE	01/01/07	SIZE	C
DRAWN	L&W INDS.	REF. No.	291 450X
CHECKED		DWG NO.	B012
APPROVED		REV	
		SHEET 1 OF 1	

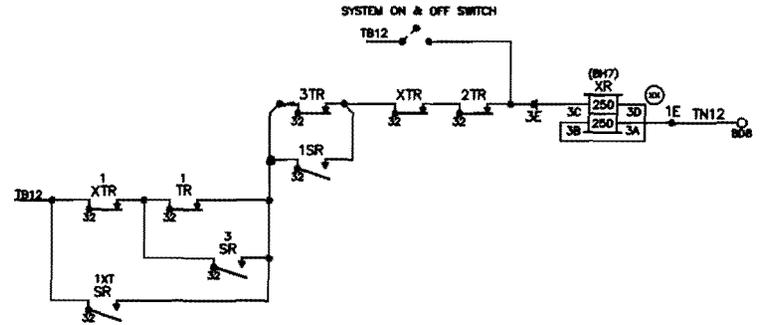
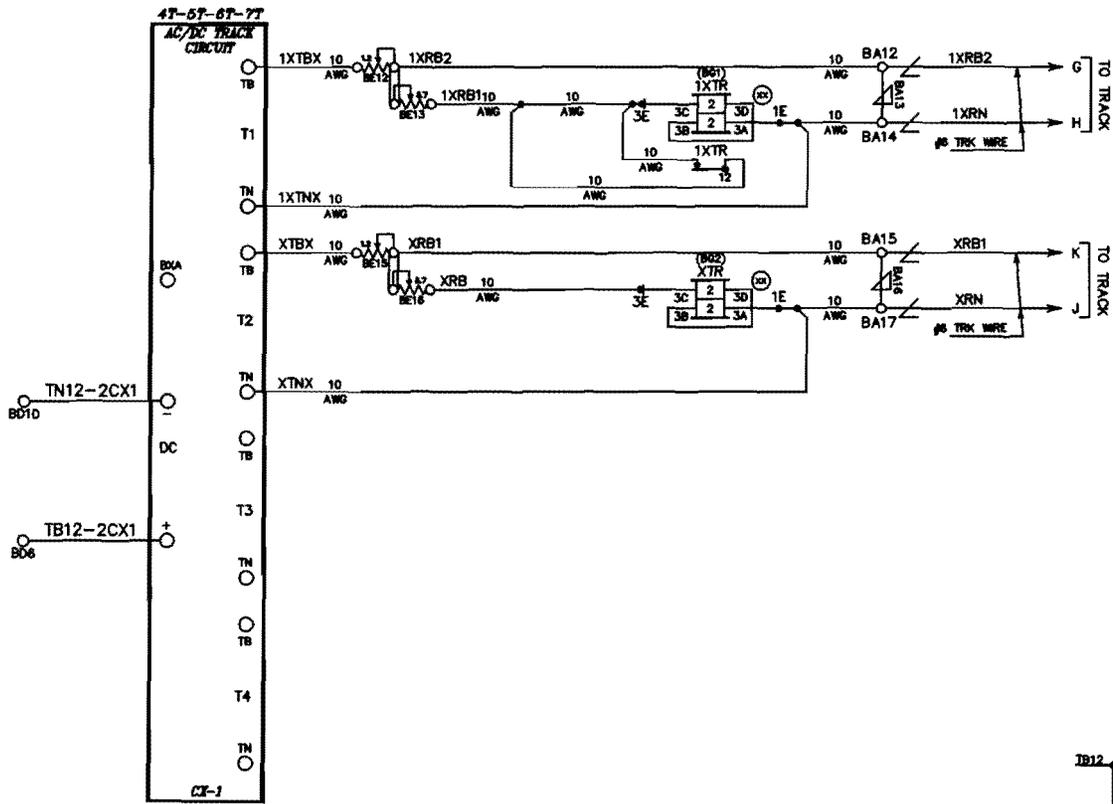


THE OPERATION OF THE CIRCUITS AND EQUIPMENT REPRESENTED CANNOT BE FINALLY CHECKED UNTIL CONNECTED TO FORM A COMPLETE SYSTEM OR PORTION OF SUCH SYSTEM. SUCH SYSTEM OR PORTION OF SUCH SYSTEM MUST UNDERGO A COMPLETE CIRCUIT CONTACT SELECTION (BREAKDOWN) & SERVICE (OPERATIONAL) TEST PRIOR TO BEING PLACED INTO SERVICE.

L&W INDUSTRIES, INC.  
SPRINGFIELD, MO

DATE	10/08/07
DESIGNED	LWI
DRAWN	LWI
CHECKED	

THE BLOOMER LINE GIBSON CITY, IL			
ILLINOIS ROUTE 116 RAIL-HIGHWAY GRADE CROSSING WARNING SYSTEM TRAIN DETECTION CIRCUITS			
DRAWN	LWI	DATE	10/28/07
CHECKED		SIZE	C
APPROVED		REF. No.	BL012
		DWG NO.	BL012-02
		REV	
		SHEET 2 of	

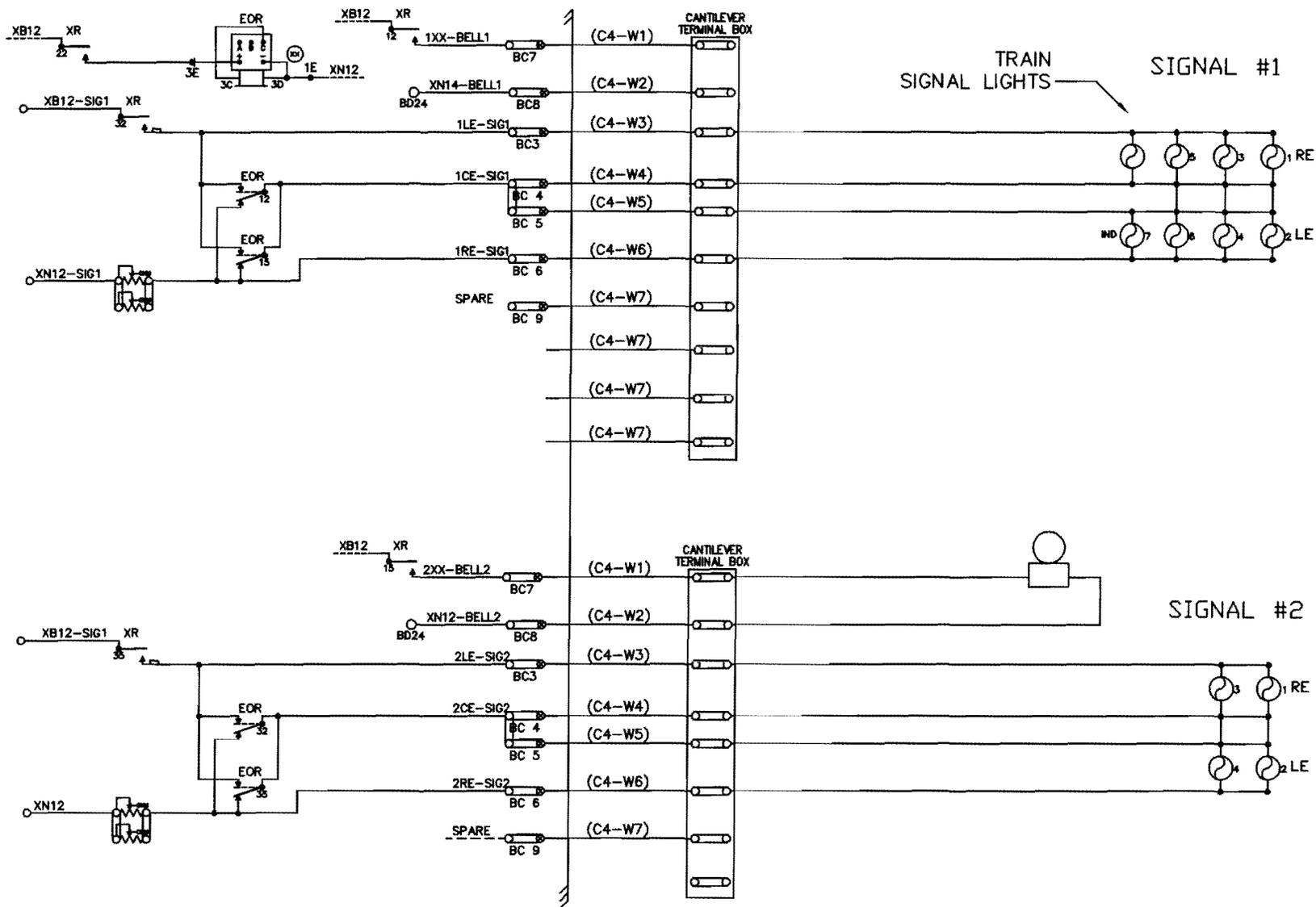


THE OPERATION OF THE CIRCUITS AND EQUIPMENT REPRESENTED CANNOT BE FINALLY CHECKED UNTIL CONNECTED TO FORM A COMPLETE SYSTEM OR PORTION OF SUCH SYSTEM. SUCH SYSTEM OR PORTION OF SUCH SYSTEM MUST UNDERGO A COMPLETE CIRCUIT CONTACT SELECTION (BREAKDOWN) & SERVICE (OPERATIONAL) TEST PRIOR TO BEING PLACED INTO SERVICE.

L&W INDUSTRIES, INC.  
SPRINGFIELD, MO

DATE	10/08/07
DESIGNED	LWI
DRAWN	LWI
CHECKED	

DRAWN		DATE		ILLINOIS ROUTE 118	
LWI		10/08/07		RAIL-HIGHWAY GRADE CROSSING WARNING SYSTEM	
CHECKED		C		TRAIN DETECTION & DIRECTIONAL STICK CIRCUITS	
APPROVED		REF. NO.	DWG. NO.	REV.	
		BLO12	BLO12-03		
				SHEET 3 OF	



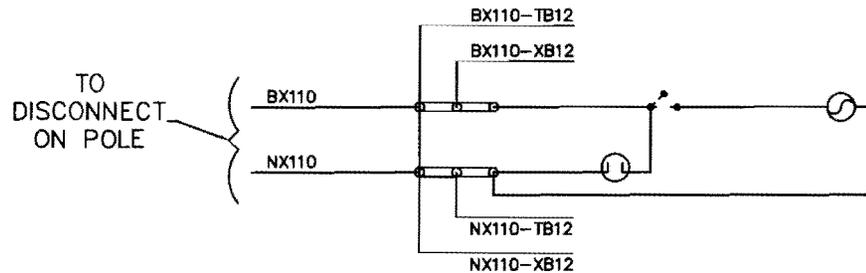
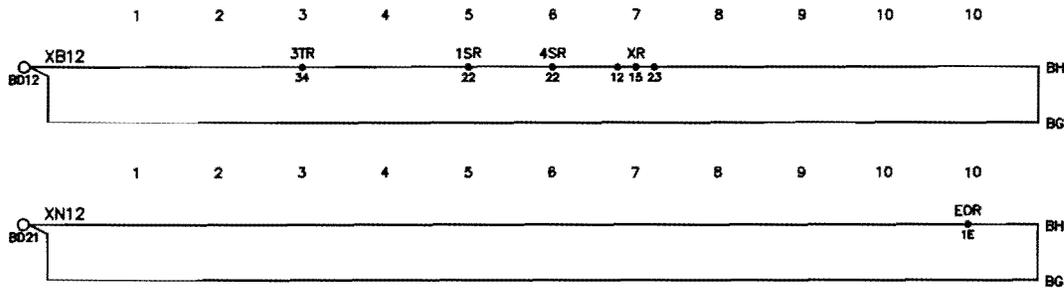
NOTE:  
USE #10 AWG WIRE FOR LIGHT CIRCUITS

THE OPERATION OF THE CIRCUITS AND EQUIPMENT REPRESENTED CANNOT BE FINALLY CHECKED UNTIL CONNECTED TO FORM A COMPLETE SYSTEM OR PORTION OF SUCH SYSTEM. SUCH SYSTEM OR PORTION OF SUCH SYSTEM MUST UNDERGO A COMPLETE CIRCUIT CONTACT SELECTION (BREAKDOWN) & SERVICE (OPERATIONAL) TEST PRIOR TO BEING PLACED INTO SERVICE.

L&W INDUSTRIES, INC.  
SPRINGFIELD, MO

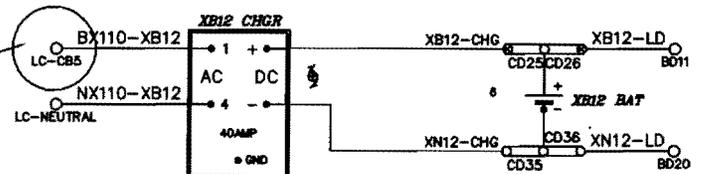
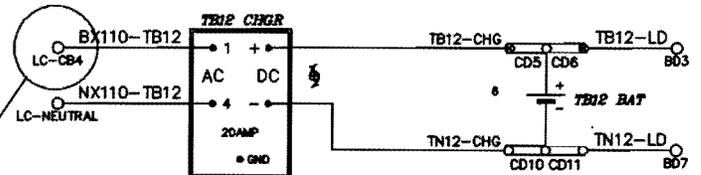
DATE	10/08/07
DESIGNED	ROLLO WATKINS
DRAWN	ROLLO WATKINS
CHECKED	

DRAWN		DATE		THE BLOOMER LINE GIBSON CITY, IL			
LM		10/08/07		ILLINOIS ROUTE 116 RAIL-HIGHWAY GRADE CROSSING WARNING SYSTEM FLASHING LIGHT SIGNAL CIRCUITS			
SIZE	REV. NO.	DWG. NO.	REV.				
C	BL012	BL012-04					
APPROVED				SHEET 4 OF			



TO  
DISCONNECT  
ON POLE

ROBERT NOTE  
WHICH BREAKER  
USED HERE



NOTES

- 1 - GROUND FAULT CIRCUIT-INTERUPPER (GFCI) MUST BE USED ON ALL CIRCUITS SERVING CONVENIENCE OUTLETS AND ANY EQUIPMENT OUTSIDE THE BUNGALOW.
- 2 - MINIMUM WIRE SIZE: 15 AMP - No. 14 AWG, THHN OR THWN SOLID.  
20 AMP - No. 12 AWG, THHN OR THWN SOLID.  
30 AMP - No. 10 AWG, THHN OR THWN SOLID.
- 3 - GENERAL COLOR CODE FOR ALL AC CIRCUITS, L1=RED, L2=BLACK, NEUTRAL=WHITE, SAFETY GROUND=GREEN.

THE OPERATION OF THE CIRCUITS AND EQUIPMENT REPRESENTED CANNOT BE FINALLY CHECKED UNTIL CONNECTED POWER IS AVAILABLE TO THE COMPLETE SYSTEM OR PORTION OF SUCH SYSTEM. SUCH SYSTEMS OR PORTIONS OF SUCH SYSTEM MUST UNDERGO A COMPLETE CIRCUIT CONTACT SELECTION (BREAKDOWN) & SERVICE (OPERATIONAL) TEST PRIOR TO BEING PLACED INTO SERVICE.

L&W INDUSTRIES, INC.  
SPRINGFIELD, MO

DATE	10/08/07
DESIGNED	LWI
DRAWN	LWI
CHECKED	

THE BLOOMER LINE  
GIBSON CITY, IL

ILLINOIS ROUTE 116  
RAIL-HIGHWAY GRADE CROSSING WARNING SYSTEM  
AC & DC POWER CIRCUITS

DRAWN	LWI	DATE	10/08/07
CHECKED		SIZE	C
APPROVED		REF. No.	BLO12
		DWG NO.	BLO12-05
		REV	
		SHEET	5 of