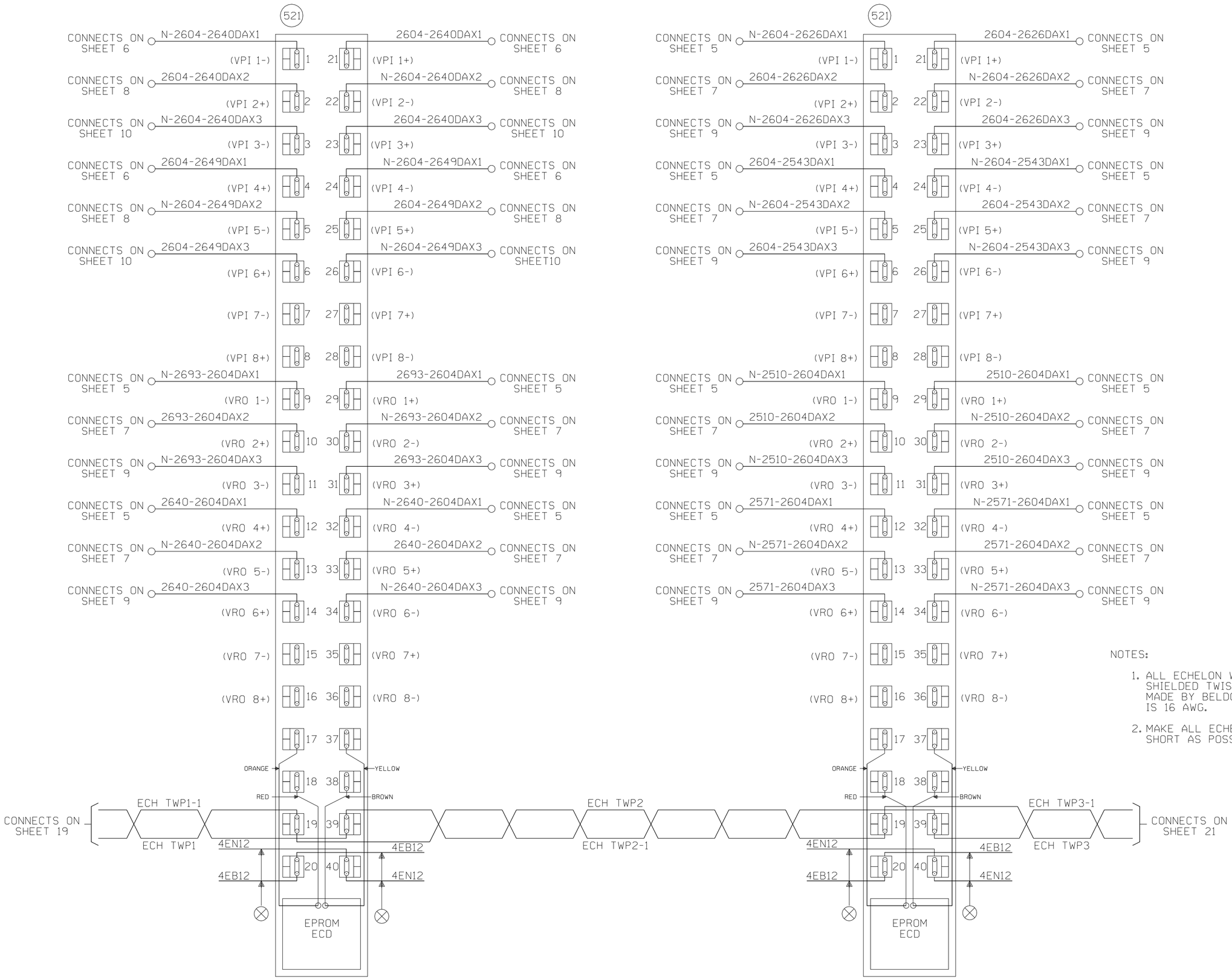


NOTES:

1. ALL ECHELON WIRES MUST BE A SHIELDED TWISTED PAIR, PREFERABLY MADE BY BELDON. MAXIMUM WIRE SIZE IS 16 AWG.
2. MAKE ALL ECHELON WIRES AS SHORT AS POSSIBLE.

~~X~~ ~~X~~ = OUT

◯ = EXISTING/REVISE IF AC'D

PALATINE, ILLINOIS
PALATINE ROAD
M.P. 26.04
HARVARD SUBDIVISION
D.O.T.#176 938A

D.O.T.#176937T

Designed: 08-06-09
INSTALL CANTILEVER AND MEDIAN GATES FOR ROAD EXPANSION.
Rec#:
IS:
WO#: 87693
/WSD
/JMM/JTB

REV. 11-15-02
UPGRADED CROSSING CONTROL AS PER THE PALATINE, IL CORRIDOR PROJECT
REC. #11126
5-30-02 JJF
JLK/WITT/WITT/JNM

MODIFICATION LEVEL	
Q.A. LAST LEVEL CHK'D.	CY
LAST LEVEL MOD. THIS TYP.	CK
LAST LEVEL BY DESIGNER.	CZ
CHANGED FROM TYP.? Y/N	Y

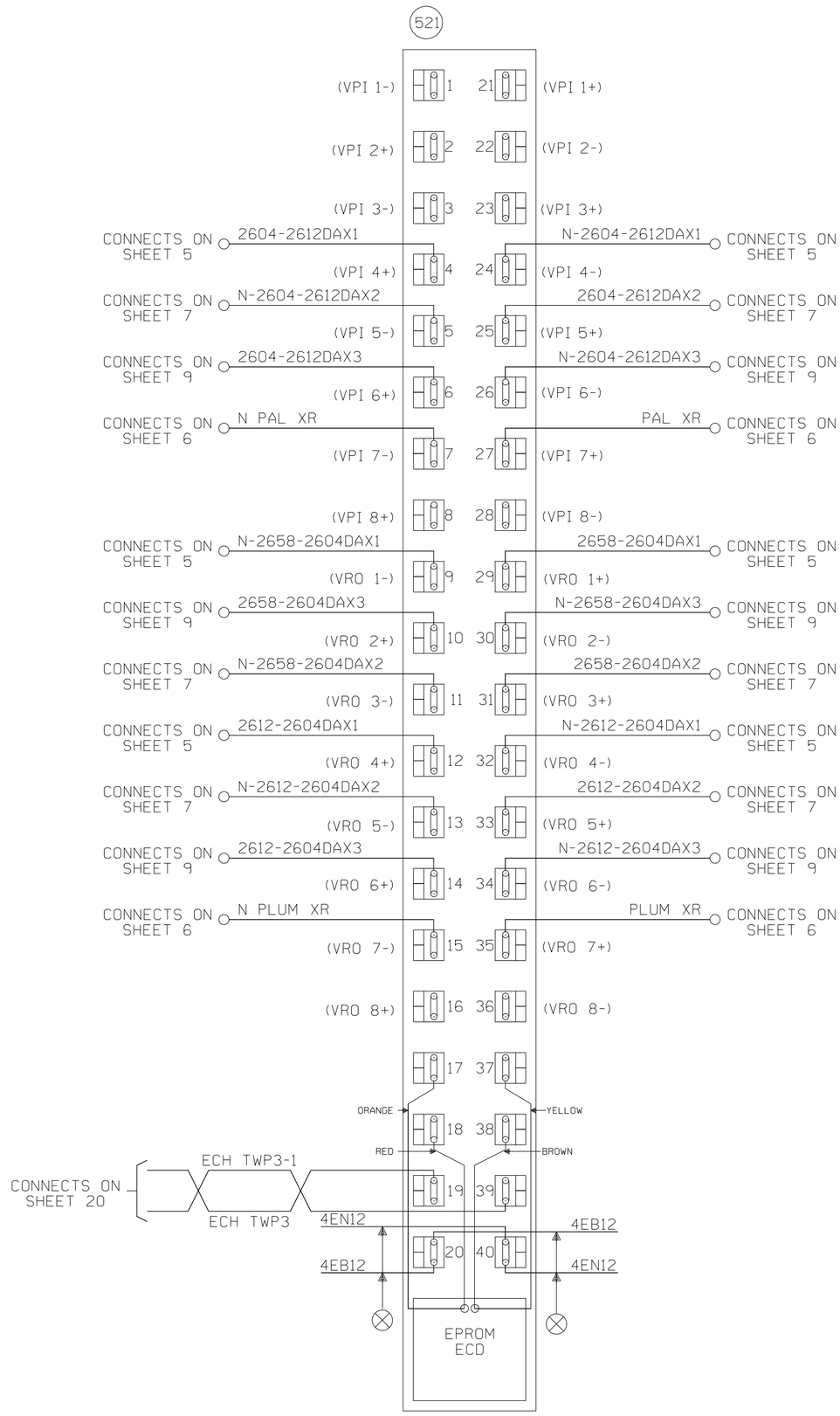
UNION PACIFIC
QUALITY PRODUCTIVITY SAFETY
SIGNAL DESIGN

DES: WITT.IND.
DIG: WITT.IND.
CHK: J.J.F.
A.F.E. 34166
ID= HAR2604.20X

UNION PACIFIC RAILROAD
EVANSVILLE, WISCONSIN TO CHICAGO, ILLINOIS
C.T.C. CIRCUITS
Office of Sr.AVP Engineering - Signal/TCO OMAHA NEBR.

DATE 3-21-00
SHEET 20
DWG 26.04
HAR

(REV. 4-4-00)(CIRCUIT.TYP)



MATING CONNECTOR & ECD
EXTERNAL 40-PIN WAGO
HD/LINK MODULE A53201

HD/LINK 05

NOTES:

1. ALL ECHELON WIRES MUST BE A SHIELDED TWISTED PAIR, PREFERABLY MADE BY BELDON. MAXIMUM WIRE SIZE IS 16 AWG.
2. MAKE ALL ECHELON WIRES AS SHORT AS POSSIBLE.

~~X~~ ~~X~~ = OUT

◯ = EXISTING/REVISE IF AC'D

PALATINE, ILLINOIS
PALATINE ROAD
M.P. 26.04
HARVARD SUBDIVISION
D.O.T.#176 938A
D.O.T.#176937T

Designed: 08-06-09
INSTALL CANTILEVER AND MEDIAN GATES FOR ROAD EXPANSION.
Rec#: WO#: 87693
IS: /WSD /JMM/JTB

REV. 11-15-02
UPGRADED CROSSING CONTROL AS PER THE PALATINE, IL CORRIDOR PROJECT
REC. #11126
5-30-02 JJF
JLK/WITT/WITT/JNM

MODIFICATION LEVEL	
Q.A. LAST LEVEL CHK'D.	CY
LAST LEVEL MOD. THIS TYP.	CK
LAST LEVEL BY DESIGNER.	CZ
CHANGED FROM TYP.? Y/N	Y

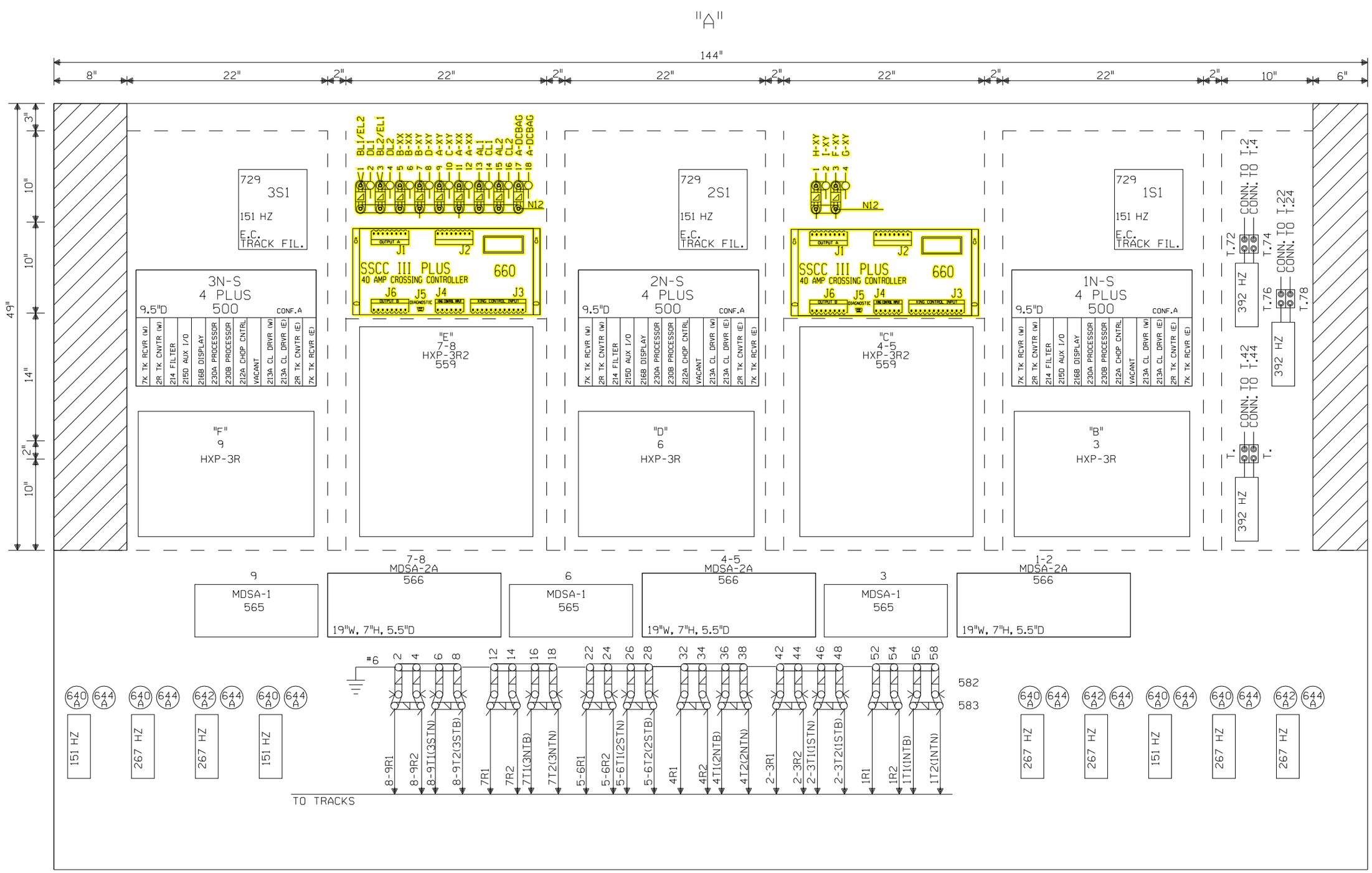
UNION PACIFIC
QUALITY PRODUCTIVITY SAFETY
SIGNAL DESIGN

DES: WITT.IND.
DIG: WITT.IND.
CHK: J.J.F.
A.F.E. 34166
ID= HAR2604.21X

UNION PACIFIC RAILROAD
EVANSVILLE, WISCONSIN TO CHICAGO, ILLINOIS
C.T.C. CIRCUITS
Office of Sr.AVP Engineering - Signal/TCO OMAHA NEBR.

DATE 3-21-00
SHEET 21
DWG 26.04
HAR

(REV. 4-4-00)(CIRCUIT.TYP)



0 1 2 3 4 FEET

SCALE: 1.5 INCHES = 1 FOOT

= IN
= OUT
= EXISTING/REVISE IF AC'D

PALATINE, ILLINOIS
PALATINE ROAD
M.P.26.04
HARVARD SUBDIVISION
D.O.T.#176 938A
D.O.T.#176937T

Designed: 08-06-09
INSTALL GATES, CANT. AND MEDIAN GATES FOR ROAD EXPANSION.
Rec#: WO#: 87693
IS: / /MSO
/JMM/JTB

REV. 11-15-02
UPGRADED CROSSING CONTROL AS PER THE PALATINE, IL CORRIDOR PROJECT
REC. #11126
5-30-02 JJF
JLK/WITT/WITT/JNM

MODIFICATION LEVEL	
Q.A. LAST LEVEL CHK'D.	CY
LAST LEVEL MOD. THIS TYP.	CX
LAST LEVEL BY DESIGNER.	CZ
CHANGED FROM TYP.? Y/N	Y

UNION PACIFIC
QUALITY PRODUCTIVITY SAFETY
SIGNAL DESIGN

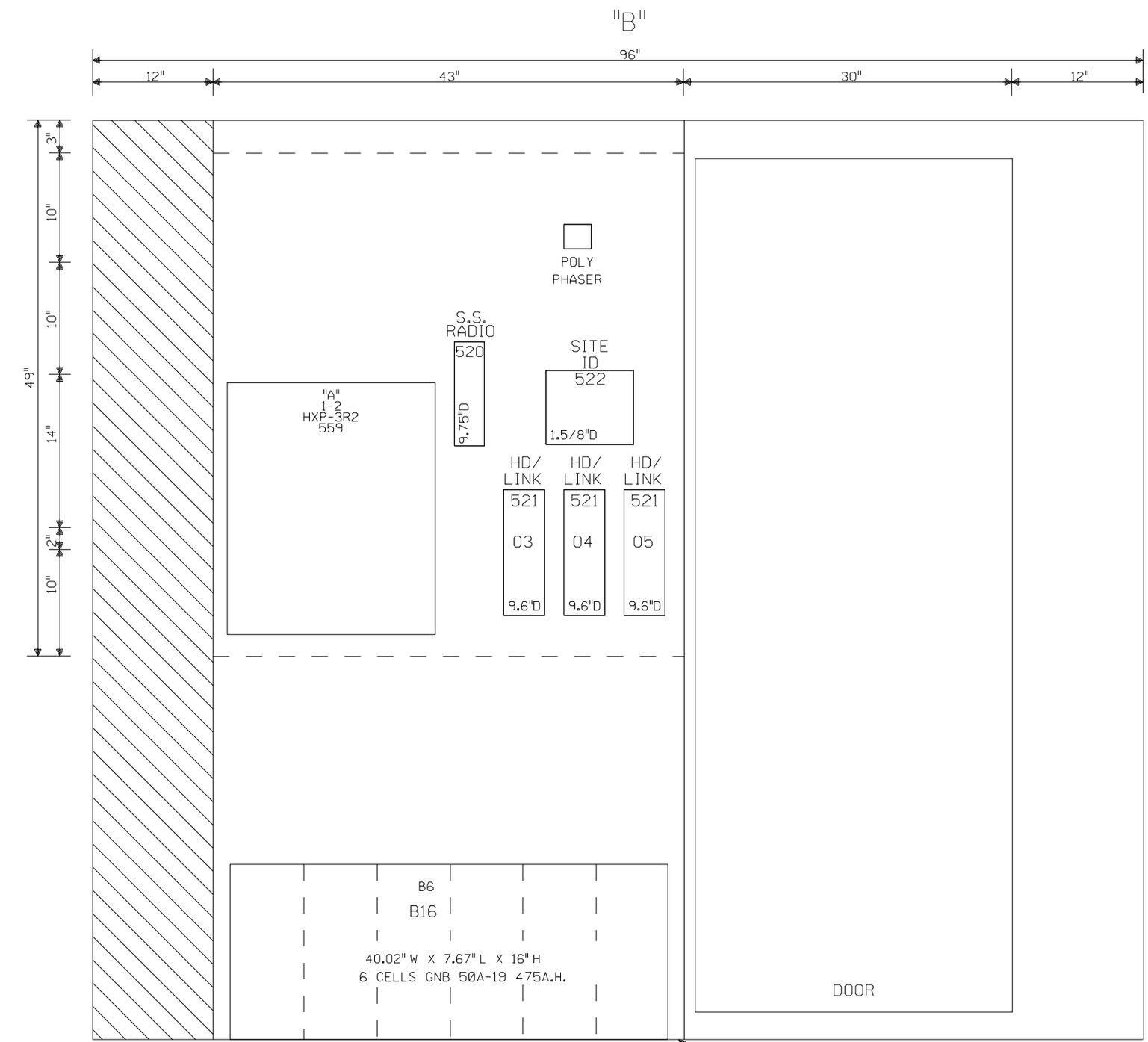
DES: WITT.IND.
DIG: WITT.IND.
CHK: J.J.F.
A.F.E. 34166
ID= HAR2604.22X

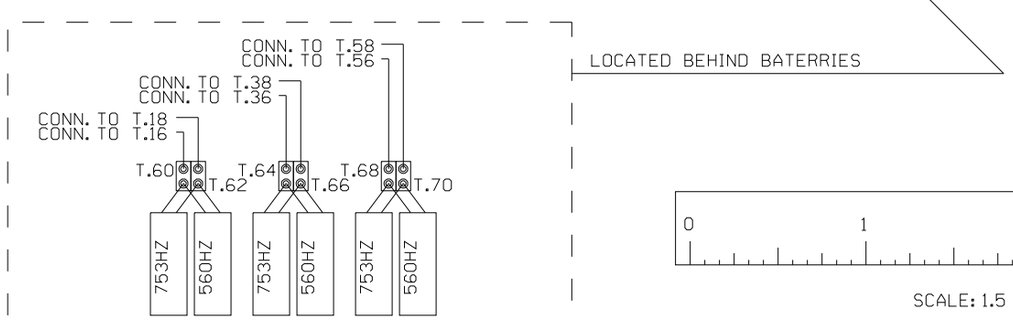
UNION PACIFIC RAILROAD EVANSVILLE, WISCONSIN TO CHICAGO, ILLINOIS C.T.C. CIRCUITS

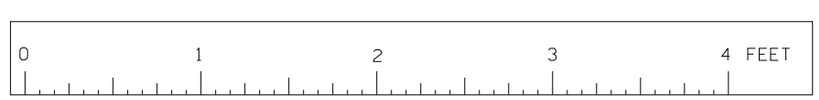
Office of Sr.AVP Engineering - Signal/TCO OMAHA NEBR.

DATE 3-21-00
SHEET 22
DWG 26.04
HAR

(REV. 4-4-00)(A8X12HSE.TYP)







SCALE: 1.5 INCHES = 1 FOOT

= OUT

= EXISTING/REVISE IF AC'D

PALATINE, ILLINOIS
PALATINE ROAD
M.P.26.04
HARVARD SUBDIVISION
D.O.T.#176 938A
D.O.T.#176937T

Designed: 08-06-09
INSTALL CANTILEVER AND MEDIAN GATES FOR ROAD EXPANSION.

Rec#: 15: WO#: 87693 /WSO / /JMM/JTB

REV. 11-15-02
UPGRADED CROSSING CONTROL AS PER THE PALATINE, IL CORRIDOR PROJECT
REC. #11126
5-30-02 JJF
JLK/WITT/WITT/JNM

MODIFICATION LEVEL	
Q.A. LAST LEVEL CHK'D.	CY
LAST LEVEL MOD. THIS TYP.	CK
LAST LEVEL BY DESIGNER.	CZ
CHANGED FROM TYP.? Y/N	Y

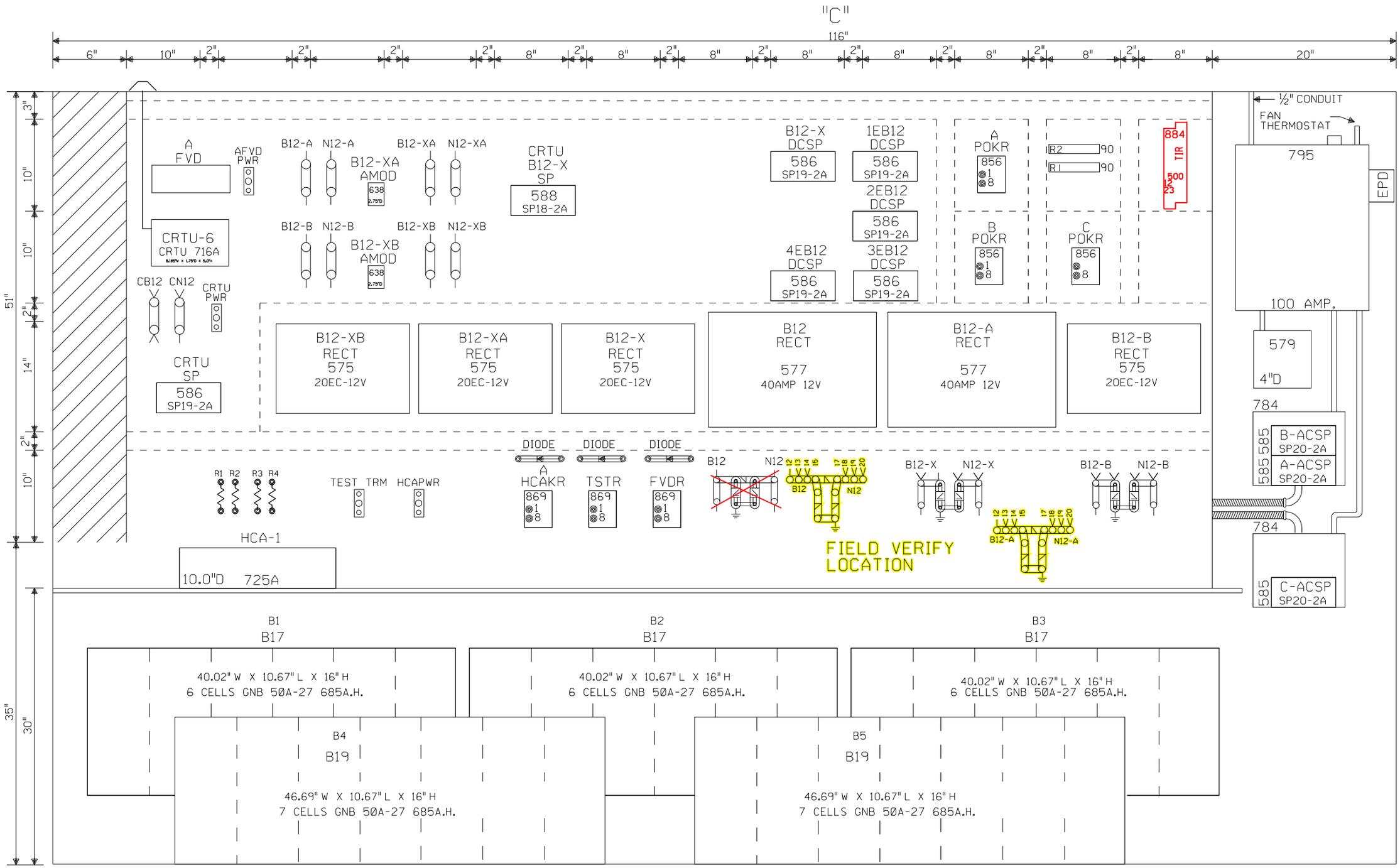
UNION PACIFIC
QUALITY PRODUCTIVITY SAFETY
SIGNAL DESIGN

DES:	WITT.IND.
DIG:	WITT.IND.
CHK:	J.J.F.
A.F.E.	34166
ID= HAR2604.23X	

UNION PACIFIC RAILROAD
EVANSVILLE, WISCONSIN TO
CHICAGO, ILLINOIS
C.T.C. CIRCUITS
Office of Sr.AVP Engineering - Signal/TCO OMAHA NEBR.

DATE	3-21-00
SHEET	23
DWG	26.04
	HAR

(REV. 4-4-00) (B8X12HSE.TYP)



0 1 2 3 4 FEET

SCALE: 1.5 INCHES = 1 FOOT

= IN

= OUT

= EXISTING/REVISE IF AC"D

PALATINE, ILLINOIS
PALATINE ROAD
M.P.26.04
HARVARD SUBDIVISION
D.O.T.#176 938A
D.O.T.#176937T

Designed: 08-06-09
INSTALL GATES, CANT, AND MEDIAN GATES FOR ROAD EXPANSION.
Rec#: WO#: 87693
IS: /WSD /JMM/JTB

REV. 2-17-09
LODS REMOVED AND POK STROBE INSTALLED.
REC. #15606
I.S. 12-5-08
JAM/WITT

REV. 11-15-02
UPGRADED CROSSING CONTROL AS PER THE PALATINE, IL CORRIDOR PROJECT
REC. #11126
5-30-02 JJF
JLK/WITT/WITT/JNM

MODIFICATION LEVEL	
Q.A. LAST LEVEL CHK'D.	CY
LAST LEVEL MOD. THIS TYP.	CK
LAST LEVEL BY DESIGNER.	CZ
CHANGED FROM TYP.? Y/N	Y

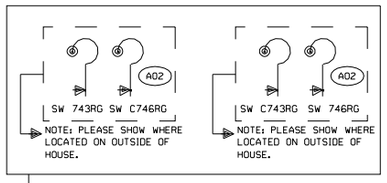
UNION PACIFIC
QUALITY PRODUCTIVITY SAFETY
SIGNAL DESIGN

DES: WITT.IND.
DIG: WITT.IND.
CHK: J.J.F.
A.F.E. 34166
ID= HAR2604.24X

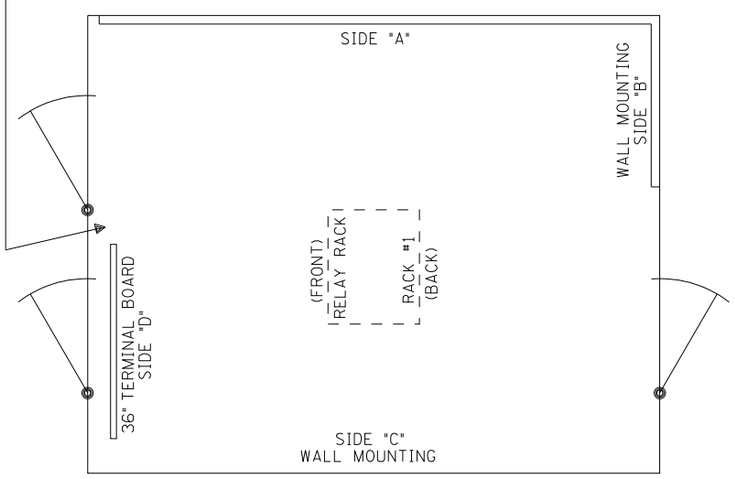
UNION PACIFIC RAILROAD
EVANSVILLE, WISCONSIN
TO CHICAGO, ILLINOIS
C.T.C. CIRCUITS
Office of Sr.AVP Engineering - Signal/TCO OMAHA NEBR.

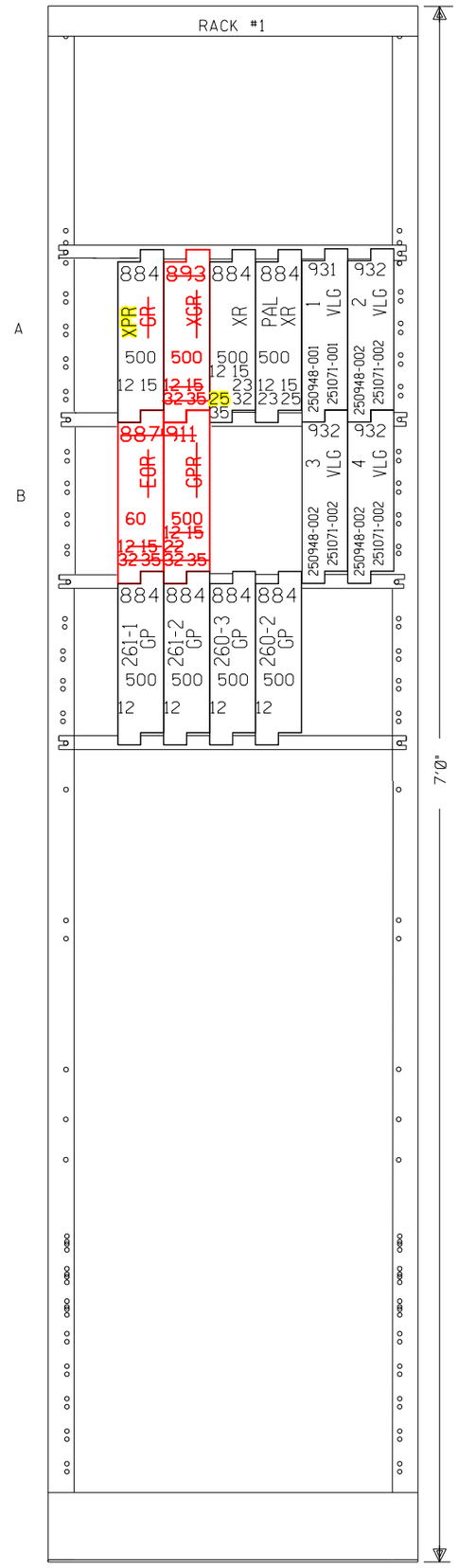
DATE 3-21-00
SHEET 24
DWG 26.04
HAR

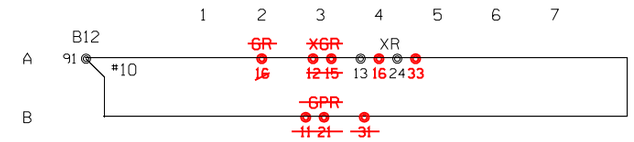
(REV. 4-4-00) (C8X12HSE.TYP)

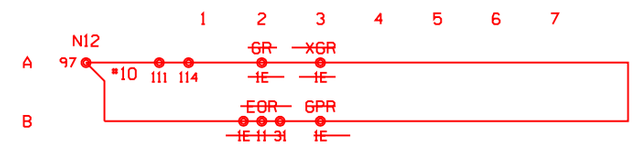


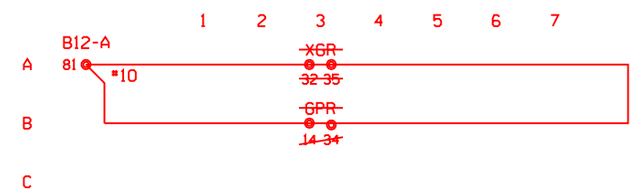
PLAN VIEW
8'x12' HOUSE
—NO SCALE—

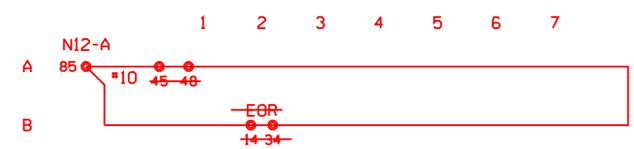




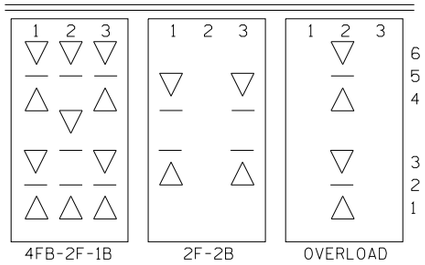








TYPICAL CONTACT CONFIGURATIONS
FOR PLUG-IN RELAYS



LEGEND

— = CONTACT HEEL

▽ = CONTACT FRONT

△ = CONTACT BACK

—— = IN

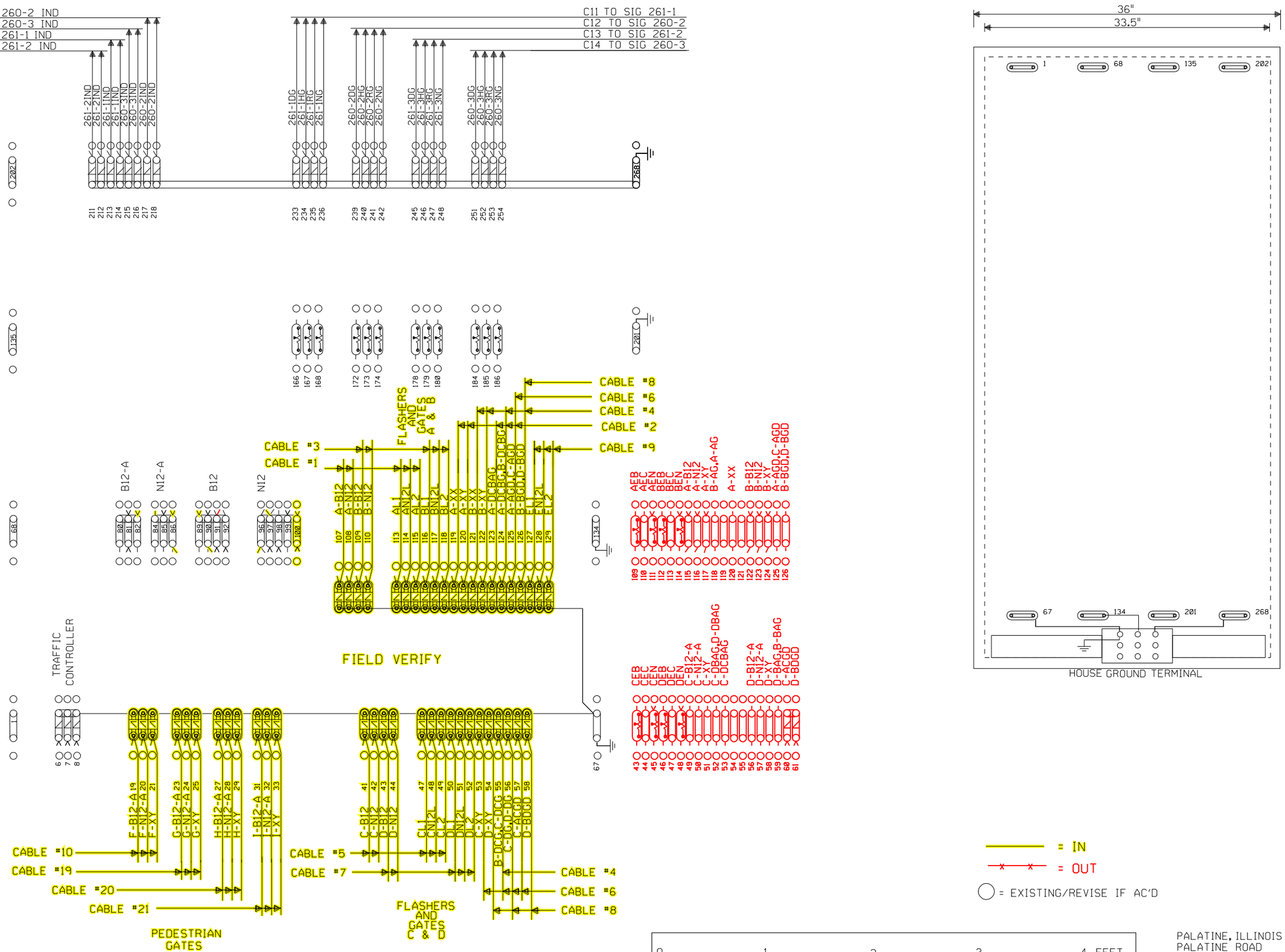
~~—x—x—~~ = OUT

○ = EXISTING/REVISE IF AC'D

PALATINE, ILLINOIS
PALATINE ROAD
M.P.26.04
HARVARD SUBDIVISION
D.O.T.#176 938A
D.O.T.#1769371

			Designed: 08-06-09 INSTALL GATES, CANT. AND MEDIAN GATES FOR ROAD EXPANSION. Rec#: WO#: 87693 IS: /WSD / /JMM/JTB	REV. 2-17-09 LODS REMOVED AND POK STROBE INSTALLED. REC. #15606 I.S. 12-5-08 JAM/WITT	REV. 11-15-02 UPGRADED CROSSING CONTROL AS PER THE PALATINE, IL CORRIDOR PROJECT REC. #11126 5-30-02 JJF JLK/WITT/WITT/JNM	MODIFICATION LEVEL		UNION PACIFIC SAFETY SIGNAL DESIGN	DES: WITT.IND. DIG: WITT.IND. CHK: J.J.F. A.F.E. 34166 ID= HAR2604.25X	UNION PACIFIC RAILROAD EVANSVILLE, WISCONSIN TO CHICAGO, ILLINOIS C.T.C. CIRCUITS Office of Sr.AVP Engineering - Signal/TCO OMAHA NEBR.	DATE 3-21-00 SHEET 25 DWG 26.04 HAR
						Q.A. LAST LEVEL CHK'D.	CY				
						LAST LEVEL MOD. THIS TYP.	CS				
						LAST LEVEL BY DESIGNER.	CZ				
						CHANGED FROM TYP.? Y/N	Y				

(REV. 4-4-00) (WELOG30.10)



Designed: 08-06-09
INSTALL CANTILEVER AND MEDIAN GATES FOR ROAD EXPANSION.
Rec#: WO#: 87693
IS: / /WSD / /JMM/JTB

REV. 2-17-09
LODS REMOVED AND POK STROBE INSTALLED.
REC. #15606
I.S. 12-5-08
JAM/WITT

REV. 11-15-02
UPGRADED CROSSING CONTROL AS PER THE PALATINE, IL CORRIDOR PROJECT
REC. #11126
5-30-02 JJF
JLK/WITT/WITT/JNM

MODIFICATION LEVEL	
Q.A. LAST LEVEL CHK'D.	CY
LAST LEVEL MOD. THIS TYP.	CK
LAST LEVEL BY DESIGNER.	CZ
CHANGED FROM TYP.? Y/N	Y

UNION PACIFIC
QUALITY PRODUCTIVITY SAFETY
SIGNAL DESIGN

DES: WITT.IND.
DIG: WITT.IND.
CHK: J.J.F.
A.F.E. 34166
ID= HAR2604.26X

UNION PACIFIC RAILROAD
EVANSVILLE, WISCONSIN TO CHICAGO, ILLINOIS
C.T.C. CIRCUITS
Office of Sr.AVP Engineering - Signal/TCO OMAHA NEBR.

DATE 3-21-00
SHEET 26
DWG 26.04
HAR

(REV. 4-4-00) (D8X12HSE.TYP)