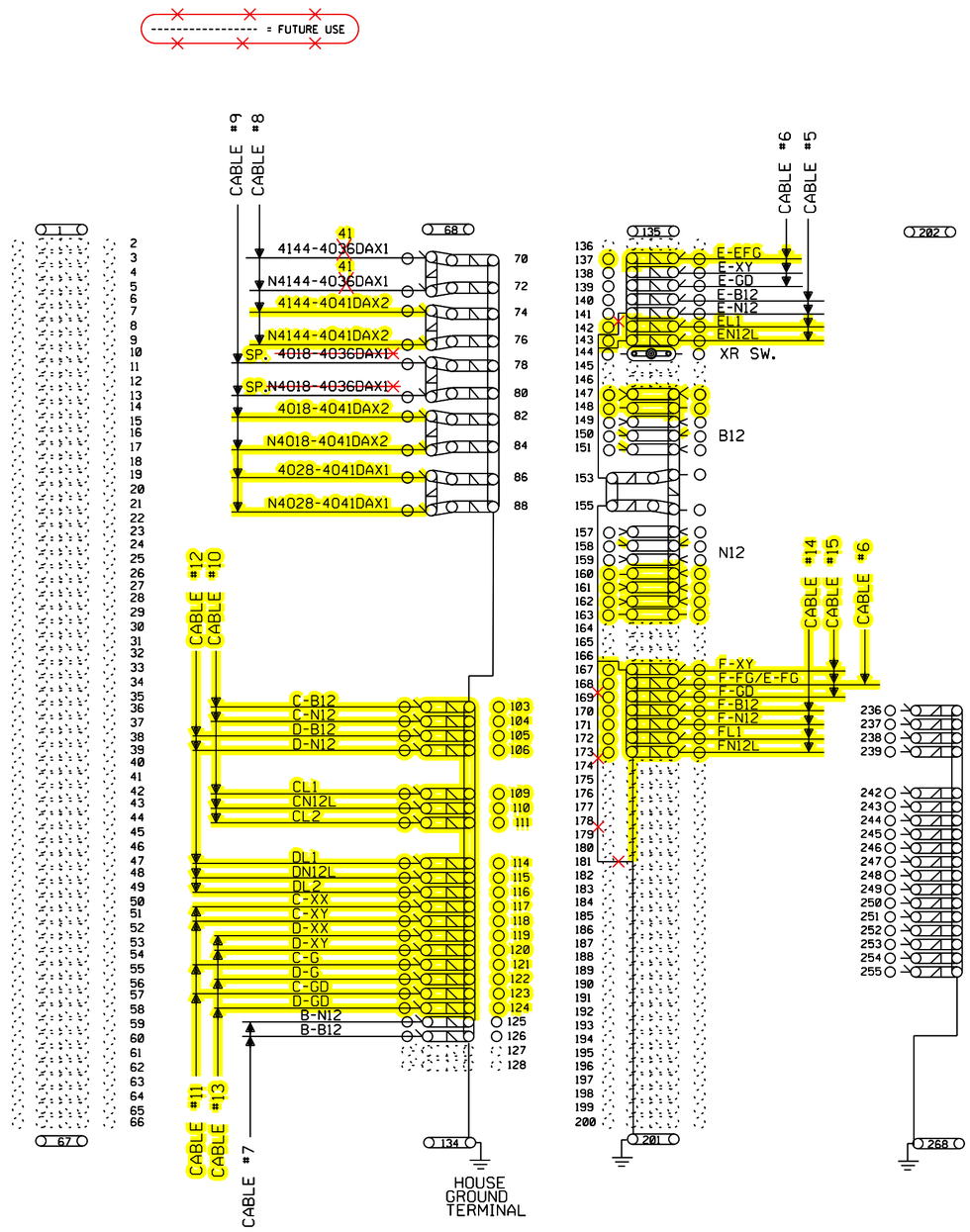

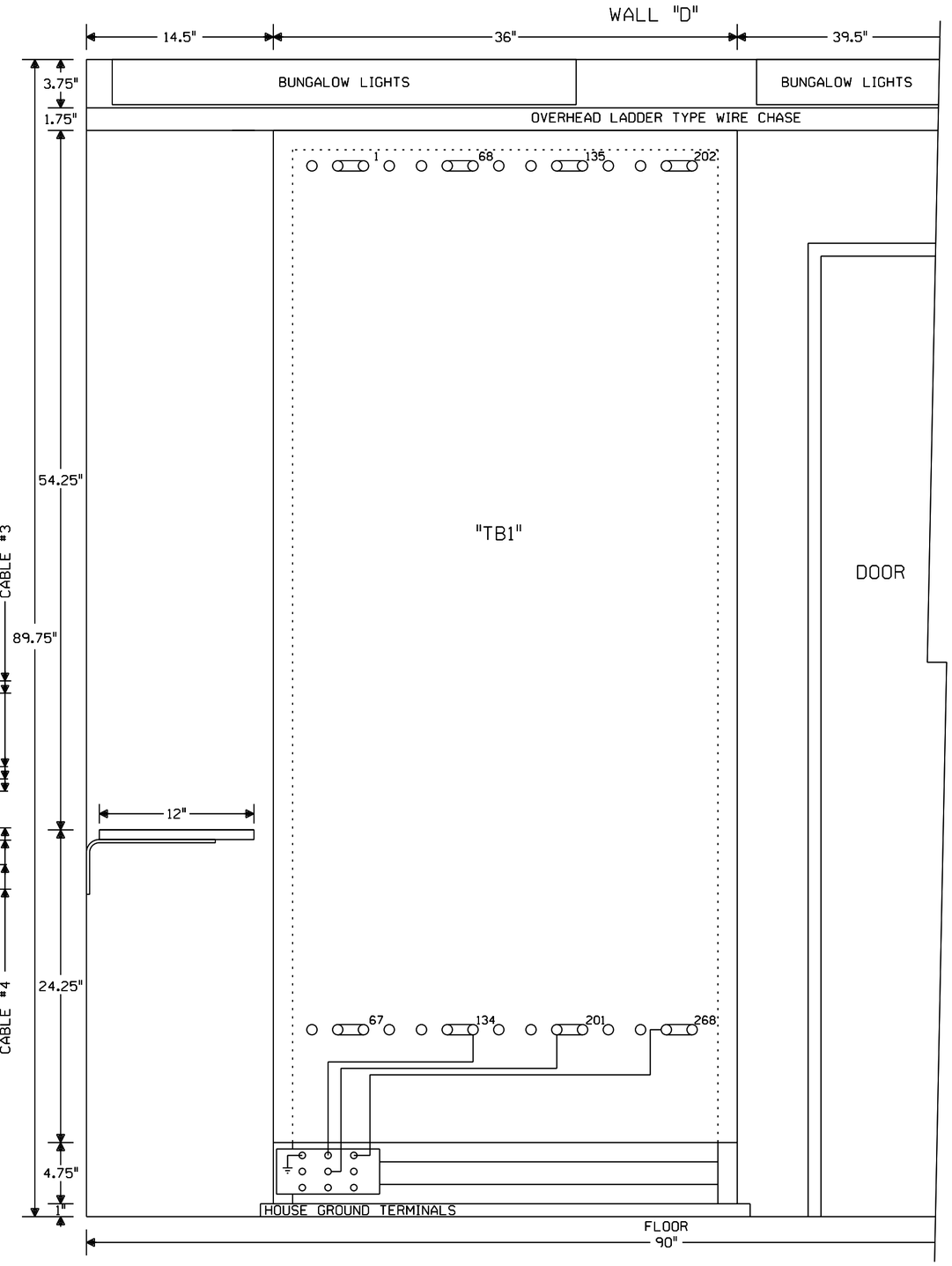

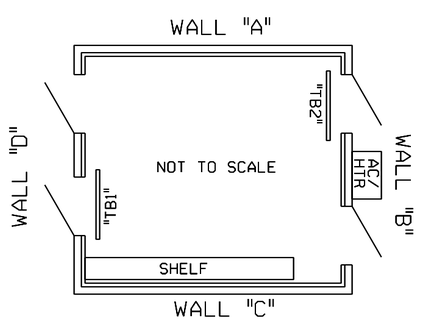

NOTE: ALL DIMENSIONS SHOWN ARE APPROXIMATE.

= IN

= OUT

Designed: 01/20/14
TIER 6
HIGH SPEED RAIL
M.P. 38 TO 48
Rec#: WO#: 10925
IS: WIT/MWK
RC/JVJ

Revised: 10/14/10
JOLIET INTERMODAL
REVISED PER TRACK
REDESIGN- FUTURE
DOUBLE TRACK #24
XOVERS JOLIET TO
ELWOOD
Rec#: 17182 WO#: 87545
IS: 09/09/10 MWK/MWK
JWS/WIT/EEM/RLL

CIRCUIT MODIFICATIONS ARE NOT TO BE MADE WITHOUT AUTHORITY FROM THE OFFICE OF SIGNAL DESIGN

Date:	9/1/09
Des:	WSD
Chk:	MWK
AFE:	87545

UNION PACIFIC RAILROAD

JOLIET, ILLINOIS
LARAWAY ROAD
JOLIET SUBDIVISION

Office of Sr AVP Engineering - Signal/TCO Omaha, Nebraska

Sh.:	~~11~~ 15
DOT	289771E
MP:	40.36
ID:	CSL4036.~~11~~

15X

Minimum Program Steps Report

Location and SIN

DOT Number: 289771E
Milepost Number: 40.41
Site Name: JOLIET, IL

SIN: 762010010016 *

* Parameter is part of office check number calculation.

MCF and Template Selection

MCF Name: GCP-T6X-02-1.mcf
MCF Revision: 021
MCFCRC: 6076E435

Template = 2G:Bi,4 Uni, Rem *

* Parameter is part of office check number calculation.

Minimum Program Steps

TEMPLATE: module configuration
Track 5/RIO 2 Slot = Track *
Track 6/RIO 3 Slot = Track *

TEMPLATE: track 1-Bi, Island
Track 1 : GCP Frequency = 645 Hz (See Plans)
Track 1 : Approach Distance = 1379 ft (See Plans)
Track 1 : Prime Warning Time = 42 sec (See Plans)
Track 1 : GCP Transmit Level = Medium (Set in Field)
Track 1 : Isl Frequency = 13.2 kHz (See Plans)

TEMPLATE: track 2-Uni, Island
Track 2 : GCP Frequency = 525 Hz (See Plans)
Track 2 : Approach Distance = 1821 ft (See Plans)
Track 2 : Prime Warning Time = 42 sec (See Plans)
Track 2 : Prime UAX = IP *
Track 2 : Prime UAX Pickup = 15 sec *
Track 2 : GCP Transmit Level = Medium (Set in Field)
Track 2 : Isl Frequency = 10.0 kHz (See Plans)
Track 2 : Island Distance = 189 ft (Verify in Field)

TEMPLATE: track 3-Uni,No Island
Track 3 : GCP Frequency = 86 Hz (See Plans)
Track 3 : Approach Distance = 4440 ft (See Plans)
Track 3 : Prime Warning Time = 42 sec (See Plans)
Track 3 : GCP Transmit Level = Medium (Set in Field)

TEMPLATE: track 4-Remote Prime
Track 4 : GCP Frequency = 790 Hz (See Plans)
Track 4 : Approach Distance = 423 ft (See Plans)
Track 4 : Prime Offset Distance = 347 ft (Verify in Field)
Track 4 : GCP Transmit Level = Medium (Set in Field)

TEMPLATE: track 4 Daxes
Track 4 : Dax A Used = Yes *
Track 4 : Dax A Warning Time = 42 sec (See Plans)
Track 4 : Dax A Offset Distance = 347 ft (Verify in Field)

```
TEMPLATE:  track 5-Uni, Island
Track 5 : GCP Frequency = 525 Hz (See Plans)
Track 5 : Approach Distance = 1821 ft (See Plans)
Track 5 : Prime Warning Time = 42 sec (See Plans)
Track 5 : Prime UAX = IP *
Track 5 : Prime UAX Pickup = 15 sec *
Track 5 : GCP Transmit Level = Medium (Set in Field)
Track 5 : Isl Frequency = 11.5 kHz (See Plans)
Track 5 : Island Distance = 189 ft (Verify in Field)

TEMPLATE:  track 6-Uni,No Island
Track 6 : GCP Frequency = 86 Hz (See Plans)
Track 6 : Approach Distance = 4440 ft (See Plans)
Track 6 : Prime Warning Time = 42 sec (See Plans)
Track 6 : GCP Transmit Level = Medium (Set in Field)

TEMPLATE:  track Anding
AND 2 Used = Yes *
AND 3 Used = Yes *

TEMPLATE:  AND 1 XR
AND 1 XR Track 4 = Dax A *
AND 1 Enable Used = Yes *

TEMPLATE:  AND 2
AND 2 Track 2 = Prime *
AND 2 Track 3 = Prime *

TEMPLATE:  AND 3
AND 3 Track 5 = Prime *
AND 3 Track 6 = Prime *

TEMPLATE:  SSCC
SSCC-2 Number of GPs = 2 *
SSCC-2 Number of GDs = 2 *
SSCC 1 : Lamp Neutral Test = Off (Set in Field)
SSCC 2 : Lamp Neutral Test = Off (Set in Field)

TEMPLATE:  OOS
OOS Control = OOS IPs *
T1 OOS Control = OOS Input 3 *
T2 OOS Control = OOS Input 1 *
T3 OOS Control = OOS Input 1 *
T4 OOS Control = None *

TEMPLATE:  OOS T5/T6
T5 OOS Control = OOS Input 2 *
T6 OOS Control = OOS Input 2 *

TEMPLATE:  OP assignment 1
OUT 1.1 = AND 1 XR *
OUT 2.1 = T2 Island *
OUT 2.2 = T5 Island *
OUT 3.1 = T1 Island *

TEMPLATE:  OP assignment 2
OUT 5.1 = AND 2 *
OUT 5.2 = AND 3 *
OUT 6.1 = T1 Prime *

TEMPLATE:  IP assignment 1
IN 1.1 = AND 1 XR Enable *
IN 1.2 = Out Of Service IP 1 *
```

IN 2.1 = Out Of Service IP 2 *
IN 2.2 = Out Of Service IP 3 *
IN 3.1 = T2 Prime UAX *
IN 3.2 = T2 Prime UAX *

TEMPLATE: IP assignment 2
IN 5.1 = GP 1.1 *
IN 6.1 = T5 Prime UAX *
IN 6.2 = T5 Prime UAX *

TEMPLATE: IP assignment SSCC
IN 7.1 = AND 1 XR Enable *
IN 7.2 = GD 1.1 *
IN 7.4 = GD 1.2 *
IN 8.2 = GD 2.1 *
IN 8.3 = GP 2.1 *
IN 8.4 = GD 2.2 *
IN 8.5 = GP 2.2 *

TEMPLATE: SEAR
SP 3.1 = General 3 *
SP 4.1 = General 4 *
SP 5.1 = General 2 *
SP 6.1 = General 3 *

PREDICTORS: track 4
Track 4 : Prime Used = No *

GCP: track 1
Track 1 : Island Distance = 189 ft *

GCP: track 4 prime
Track 4 : Prime Offset Distance = 347 ft (Hidden) *

ISLAND: track 1
Track 1 : Pickup Delay (2s +) = 2 sec *

ISLAND: track 2
Track 2 : Pickup Delay (2s +) = 2 sec *

ISLAND: track 5
Track 5 : Pickup Delay (2s +) = 2 sec *

ADVANCED: internal I/O 1
Int.1 Sets = AND 1 XR Enable *
Int.1 Set by = T4 Dax A *

SEAR
DI 1 = General 1 *
DI 2 = General 2 *

SEAR: slot 1-4 inputs
IN 4.1 = Vehicle Det Hlth *
IN 4.2 = 3 Vehicle Detect *

SEAR: inputs slot 5
IN 5.2 = General 1 *

* Parameter is part of office check number calculation.

Check Numbers

Office Check No. (DT 4.6.0): 22A0A79C

Office Check Number: 22A0A79C
Config. Check Number: 12774C6C
(Based on MCF Revision 021)

Parameters not part of office check number calculation:

Track 1 : GCP Frequency = 645 Hz
Track 1 : Approach Distance = 1379 ft
Track 1 : Prime Warning Time = 42 sec
Track 1 : GCP Transmit Level = Medium (Set in Field)
Track 1 : Isl Frequency = 13.2 kHz
Track 2 : GCP Frequency = 525 Hz
Track 2 : Approach Distance = 1821 ft
Track 2 : Prime Warning Time = 42 sec
Track 2 : GCP Transmit Level = Medium (Set in Field)
Track 2 : Isl Frequency = 10.0 kHz
Track 2 : Island Distance = 189 ft
Track 3 : GCP Frequency = 86 Hz
Track 3 : Approach Distance = 4440 ft
Track 3 : Prime Warning Time = 42 sec
Track 3 : GCP Transmit Level = Medium (Set in Field)
Track 4 : GCP Frequency = 790 Hz
Track 4 : Approach Distance = 423 ft
Track 4 : Prime Offset Distance = 347 ft
Track 4 : GCP Transmit Level = Medium (Set in Field)
Track 4 : Dax A Warning Time = 42 sec
Track 4 : Dax A Offset Distance = 347 ft
Track 5 : GCP Frequency = 525 Hz
Track 5 : Approach Distance = 1821 ft
Track 5 : Prime Warning Time = 42 sec
Track 5 : GCP Transmit Level = Medium (Set in Field)
Track 5 : Isl Frequency = 11.5 kHz
Track 5 : Island Distance = 189 ft
Track 6 : GCP Frequency = 86 Hz
Track 6 : Approach Distance = 4440 ft
Track 6 : Prime Warning Time = 42 sec
Track 6 : GCP Transmit Level = Medium (Set in Field)
SSCC 1 : Lamp Neutral Test = Off (Set in Field)
SSCC 2 : Lamp Neutral Test = Off (Set in Field)

Comments

Input DI1 assigned to general 1 for PED gate E GD.
Input DI2 assigned to general 2 for PED gate F GD.
Input 6.1 assigned to general 3 for PED gates GP.

Configuration Package File

Filename: CSL4041_289771E.pac
Path: C:\PAC File\
Date/Time: 4/29/2015 11:29:07