SITE SET UP

DATE/TIME	MMDDYYYY HH:MM:SS
AUTOMATIC DST ADJUSTMENT	YES
TIME ZONE?	CENTRAL
SITE NAME?	PTH 1 EASTBOUND
MILE POST	67.28
DOT#?	000000A
TESTER TYPE?	CROSSING
DATE FORMAT?	DDMMYYYY
TEMP. FORMAT?	CELSIUS
INDICATE HOLD	1
INDICATE REFRESH	60
SITE (ATCS) ADDRESS	2 620 100 100 99.01
SITE TYPE?	COLLECTOR
OFFICE (ATCS) ADDRESS	7 620 00 0000
POLL ID	1
MODE	GEN/ATCS
WAMS XID	DISABLED
OFFICE COMM. DEVICE	DIRECT (RS232)
MCM (RS232) PORT	AUX
FIELD COMM. DEVICE?	NONE
USER PORT BAUD	57600
USER PORT DATA BITS	8
USER PORT PARITY	NONE
USER PORT STOP BITS	1
USER PORT FLOW CONTROL	NONE
AUX PORT BAUD	9600
AUX PORT DATA BITS	8
AUX PORT PARITY	NONE
AUX PORT STOP BITS	1
AUX PORT FLOW CONTROL	NONE
COMM PORT BAUD	9600
COMM PORT DATA BITS	8
COMM PORT PARITY	NONE
COMM PORT STOP BITS	1
COMM PORT FLOW CONTROL	NONE

RESET NAMES MODULES	YES OR NO	YES
AC OFF ALARM TIME	(1–180) MINUTES	60 MINUTES
MINIMUM WARNING TIME	(20–90 DEF:20)SECONDS	35 SECONDS
DESIRED WARNING TIME	(20–99 DEF:25)SECONDS	35 SECONDS
IGNORE WARNING TIME BELOW	(0–10 DEF:3)SECONDS	3 SECONDS
XR IS UP WHEN INPUT IS	NOT ENERGIZED–ENERGIZED–UNUSED	NOT ENERGIZED
HOW MANY GATES ?	(0–4)	0
GATE 1 DOWN	NOT ENERGIZED–ENERGIZED	N/A
GATE 2 DOWN	NOT ENERGIZED–ENERGIZED	N/A
GATE 3 DOWN	NOT ENERGIZED–ENERGIZED	N/A
GATE 4 DOWN	NOT ENERGIZED–ENERGIZED	N/A
HOW MANY TRACK ?	(1 – 2)	1
IF TRACKS = 1	ISAND ONLY OPPERATION	NO
IF TRACKS = 2	ISAND ONLY OPPERATION	N/A
HOW MANY ILODS ?	(0 – 2)	2
IF 1 OR 2 IS SELECTED	MINIMUM FL. RATE (35–55)	55
GATE NOT DOWN ALARM TIME	(8 – 30 DEF:15)	N/A
CROSSING ACTIVE ALARM AFTER	(20 – 60 DEF:20)	20 MINUTES
FLASHING TROUBLE LIGHT OUTPUT ?	YES OR NO	YES
DEGITAL INPUTS NAMES		USER DEFINED
XB12 LOW VOLTAGE ALARM	(90 – 150) IN TENTHS	136
B12 LOW VOLTAGE ALARM	(90 – 150) IN TENTHS	107
B14 LOW VOLTAGE ALARM	(90 – 150) IN TENTHS	107

EDIT DIGITAL INPUTS	YES OR NO	YES	
INPUT 1 ALGRTHN	DISCRETE – MTSS – GFT	DISCRETE	XK
INPUT 2 ALGRTHN	DISCRETE – MTSS – GFT	DISCRETE	DEFAULT
INPUT 3 ALGRTHN	DISCRETE – MTSS – GFT	DISCRETE	DEFAULT
INPUT 4 ALGRTHN	DISCRETE – MTSS – GFT	DISCRETE	DEFAULT
INPUT 5 ALGRTHN	DISCRETE – MTSS – GFT	DISCRETE	DEFAULT
INPUT 6 ALGRTHN	DISCRETE – MTSS – GFT	DISCRETE	DEFAULT
INPUT 7 ALGRTHN	DISCRETE – MTSS – GFT	DISCRETE	W–BELLK
INPUT 8 ALGRTHN	DISCRETE – MTSS – GFT	DISCRETE	WT
INPUT 9 ALGRTHN	DISCRETE – MTSS – GFT	DISCRETE	ISL
INPUT 10 ALGRTHN	DISCRETE – MTSS – GFT	DISCRETE	ET
INPUT 11 ALGRTHN	DISCRETE – MTSS – GFT	DISCRETE	DEFAULT
INPUT 12 ALGRTHN	DISCRETE – MTSS – GFT	DISCRETE	DEFAULT
INPUT 13 ALGRTHN	DISCRETE – MTSS – GFT	DISCRETE	DEFAULT
INPUT 14 ALGRTHN	DISCRETE – MTSS – GFT	DISCRETE	DEFAULT
INPUT 15 ALGRTHN	DISCRETE – MTSS – GFT	DISCRETE	DEFAULT
INPUT 16 ALGRTHN	DISCRETE – MTSS – GFT	DISCRETE	DEFAULT
INPUT 17 ALGRTHN	DISCRETE – MTSS – GFT	DISCRETE	DEFAULT
INPUT 18 ALGRTHN	DISCRETE – MTSS – GFT	DISCRETE	TESTSW

EDIT BATTERY	YES OR NO	YES
BATT 1	XB12 – B12 – B14 – AC/POR	XB12
BATT 2	XB12 – B12 – B14 – AC/POR	B12
EDIT RELAY	YES OR NO	NO
EDIT INDICATOR LEADS	YES OR NO	NO
EDIT TEST LEADS	YES OR NO	NO
EDIT ISLOD SENSORS	YES OR NO	NO

LED	LABEL	OFF=	ON=	LED	LABEL	OFF=	ON=
01	CROSSING ACTIVE	XR / NXT / SXT ALL UP OR 1BELLK DOWN	XR / NXT / SXT DOWN OR 1BELLK UP	09	ET 1 OCCUPIED	EAST TRACK 1 NOT OCCUPIED	EAST TRACK 1 OCCUPIED
02	GATE OFF	GODK ON	GODK OFF	10	WT 1 OCCUPIED	WEST TRACK 1 NOT OCCUPIED	WEST TRACK 1 OCCUPIED
03	GATE CONTROL 1	1GCK ON	1GCK OFF	11	ISL 2 OCCUPIED	ISLAND 2 NOT OCCUPIED	ISLAND 2 OCCUPIED
04	GATE UP	GPK ON (GATE UP)	GPK OFF	12	ET 2 OCCUPIED	EAST TRACK 2 NOT OCCUPIED	EAST TRACK 2 OCCUPIED
05**	GATE DOWN 1	1GDK OFF (GATE 1 NOT DOWN)	1GDK ON (GATE 1 DOWN)	13	WT 2 OCCUPIED	WEST TRACK 2 NOT OCCUPIED	WEST TRACK 2 OCCUPIED
06**	GATE DOWN 2	2GDK OFF (GATE 2 NOT DOWN)	2GDK ON (GATE 2 DOWN)	14	GATE CONTROL 2	2GCK ON	2GCK OFF
07	BELL CONTROL 1	1BELLK DOWN	1BELLK UP	15	BELL CONTROL 2	2BELLK DOWN	2BELLK UP
08	ISL 1 OCCUPIED	ISLAND 1 NOT OCCUPIED	ISLAND 1 OCCUPIED	16	AC POWER	POR ON	POR OFF

(FOR ADDING SSCC IN SEAR)

MENU SELECTIONS

CONFIGURATION / MODULES /

ADD MODULES / SSCC / SSCC1 / ATCS ADDRS / ADDRS (NOTE 1)

EXIT TO MENU BACK TO CONFIGURATION

SAVES CHANGES

COMPILE

CURRENT SOFTWARE REVISION: EXECUTIVE: 9v645a01.w APPLICATION: CNDC005.cdl

ALARM CONDITIONS

AC POWER ALARM (T1)

GREEN UPON START OF THE APPLICATION PROGRAM.
YELLOW FLASHING IF AC POWER IS LOST FOR LESS THAN 180 MINUTES.
YELLOW STEADY IF AC POWER LOST FOR LESS THAN 180 MINUTES AND THEN RESTORED.
RED FLASHING IF AC POWER IS LOST FOR 180 MINUTES OR MORE.
RED STEADY IF AC POWER LOST FOR 180 MINUTES OR MORE AND THEN RESTORED FOR A MINIMUM OF 5 MINUTES.

BATTERY ALARM (T2)

GREEN UPON START OF THE APPLICATION PROGRAM.
YELLOW FLASHING IF BATT. POWER MOVES OUT OF RANGE,BUT NOT LONG ENOUGH FOR ALARM.
YELLOW STEADY IF BATT. POWER MOVED OUT OF RANGE,NO ALARM GENERATED AND IS NOW BACK IN RANGE.
RED FLASHING IF BATTERY HAS BEEN OUT OF RANGE FOR OVER 5 SECONDS.
RED STEADY IF POWER MOVED OUT OF RANGE, GENERATED ALARM AND IS NOW BACK IN RANGE FOR 10 SEC.

LIGHT OUT DETECTED (T3)

GREEN UPON START OF THE APPLICATION PROGRAM.
FLASHER FAILURE:
YELLOW FLASHING IF THE FLASH RATE OF ANY LAMP DURING THE LAST ACTIVATION IS ABOVE 65 FPM
OR BELOW THE MENU SETTING OF 35 OR 55 FPM.
YELLOW STEADY IF THE FLASH RATE HAS RETURNED TO NORMAL SINCE THE FLASH RATE WAS LAST IN ERROR

BULB FAILURE:
RED FLASHING IF ANY NUMBER OF BURNT BULB IS DETECTED.

WARNING TIME TRACK 1 OR TRACK 2 ALARM (T4)

GREEN UPON START OF THE APPLICATION PROGRAM.
YELLOW FLASHING IF LAST TRAIN BY CROSSING HAD A WARNING TIME LESS THAN DW BUT GREATER THAN MW.
YELLOW STEADY IF PRIOR TRAIN HAD A WARNING TIME LESS THAN DW AND LAST TRAIN HAD NORMAL WARNING TIME.
RED FLASHING IF LAST TRAIN BY CROSSING HAD A WARNING TIME ALARM (LESS THAN MW)
RED STEADY IF PRIOR TRAIN HAD ALARM AND LAST TRAIN HAD NO ALARM.

CROSSING ACTIVE TOO LONG (T5)

GREEN UPON START OF THE APPLICATION PROGRAM.
RED FLASHING IF CROSSING ACTIVE IS TRUE FOR USER SPECIFIED NUMBER OF MINUTES.
RED STEADY IF ALARM CONDITION OCCURRED AND IS CURRENTLY NOT IN ALARM.

GATE REMAINS DOWN ALARM (T6)

GREEN UPON START OF THE APPLICATION PROGRAM.
RED FLASHING IF CURRENTLY IN ALARM.
RED STEADY IF ALARM OCCURRED AND IS PRESENTLY CLEARED.

GATE NOT DOWN ALARM (T7)

GREEN UPON START OF THE APPLICATION PROGRAM.
RED FLASHING IF CURRENTLY IN ALARM.
RED STEADY IF ALARM OCCURRED AND IS PRESENTLY CLEARED AFTER PROPER GATE OPERATION.

GATE NOT RECOVERD ALARM (T8)

GREEN UPON START OF THE APPLICATION PROGRAM.
RED FLASHING IF GATE OFF IS DETECTED.
YELLOW FLASHING IF CURRENTLY IN ALARM FOR GATE UP INPUT REMAINS
LOW FOR >20 SEC. AFTER GATE CONTROL HAS ENERGIZED OR IF GATE UP INPUT REMAINS LOW FOR 30 MINUTES
WITH ALL GCK's UP.
YELLOW STEADY IF THE YELLOW FLASHING ALARM OCCURRED AND IS PRESENTLY CLEARED.

TROUBLE INDICATION (RELAY OUTPUT 2 USED TO POWER TRBR RELAY)

TROUBLE RELAY ENERGIZED :
– AC POWER OK
– BATTERIES OK

TROUBLE RELAY DE–ENERGIZED :
– AC POWER OFF FOR OVER AC OFF ALARM TIME
– ONE OR MORE OF BATTERY BANKS IS OUT OF RANGE FOR OVER 5 SECONDS

NOTES:
1– USED SAME ATCS ADDRS ON SSCCIV

** THE GATE DOWN LEDS WILL ALWAYS BE ON WHEN GATE IS DOWN. THE LOGIC TAKES CARE OF MAPPING NORMALLY–OPEN OR NORMALLY–CLOSED INPUTS TO TRUE AND FALSE CONDITIONS. LEDS 01–16 ALL OFF IN NORMAL LOGIC STATE (NO TRAIN)

BATTERY INPUT CONFIGURATION

INPUT	USAGE	LABEL	NORMAL RANGE
1	LIGHT BATTERY	XB12/XN12	MINIMUM LEVEL – 18 VDC
2	STANDBY BATTERY	B12/N12	MINIMUM LEVEL – 18 VDC
3	POR	POR	POWER ON > 0.5 VDC

(WHEN REQUIRED)

NOT FOR CONSTRUCTION

B.M.
ELEV.

CONSTRUCTION COMPLETION DATE: YYYY MM DD

NO.	REVISIONS	DATE	BY
0	ISSUED FOR TENDER	2020–01–31	WSP

DESIGNED BY JAB(WSP) | CHECKED BY HH(WSP)
DRAWN BY JAB(WSP) | APPROVED BY RY(WSP)
SCALE: HORIZONTAL NTS VERTICAL NTS | RELEASED FOR CONSTRUCTION
DATE 2020 01 31 | DATE YYYY–MM–DD
PLOT DATE: 2020 01 31

ENGINEER'S SEAL

CONSULTANT DRAWING NUMBER
GWWD067.23PA014_SW

BID OPPORTUNITY: XXX–20XX
CONTRACT NUMBER: X

FILE PATH: C:\Users\cajb069559\OneDrive – WSP O365\My Documents\5 – Winnipeg Crossings\Design\CAD\
FILE NAME: GWWD067.23PA014_SW.dwg

THE CITY OF WINNIPEG
WATER AND WASTE DEPARTMENT
ENGINEERING DIVISION

THE GREATER WINNIPEG WATER DISTRICT RAILWAY
PTH 1 HIGHWAY CROSSING WARNING SYSTEMS Mi.67.18 & Mi.67.28

Mi.67.28 EASTBOUND SEARII PROGRAM DATA

SHEET 14 OF 20

CITY DRAWING NUMBER
1-0754R-E0014-001