Public Utilities Commission of Ohio

Memo

To: Docketing Division

From: Jill Henry, Rail Specialist, Rail Division

Cc: PUCO Legal Department

Date: 10/25/17

Re: PUCO Case No. 17-2198-RR-FED- In the Matter of a Request for the Installation of Active Warning Devices and Surface Installation at the Wheeling & Lake Erie Railroad Grade Crossing, DOT# 472-675D, at Seasons Road/TR 157 in Portage County, Ohio.

On February 6, 2017, the Ohio Rail Development Commission (ORDC) authorized funding for Wheeling & Lake Erie Railroad (WE) to install lights and gates and a new surface at Seasons Road/TR 157 in Portage County, Ohio. The crossing was surveyed on October 11, 2016 and was found to warrant the upgrade. The electric utility provider for this crossing is Ohio Edison, First Energy Corporation.

The project will be paid for with federal funds and is actual cost. The plans and estimates for the project in the amount of \$291,994.79 have been approved. Construction may commence at once. **Staff requests a Finding & Order with completion of the project in nine months.** Staff requests that the following language be incorporated in the Finding & Order:

It is expected that all work necessary for FHWA acceptance of the warning devices will be completed by the in-service due date and that the <u>railroad will be responsible</u> for this work. This work includes, but is not limited to:

- Any ancillary work to make the warning devices function as designed and visible to the roadway user, and
- MUTCD compliance, including minor roadway work if necessary.

Please serve the following parties of record:

Wheeling & Lake Erie Railway Company Tim Andrews Signals & Communications Supervisor 100 E. First Street Brewster, Ohio 44613

Ohio Rail Development Commission Cathy Stout 1980 West Broad Street Mail Stop #3140 43223

Franklin Township, Portage County Ken Penix Township Administrator 218 Gougler Avenue P.O. Box 291 Kent, Ohio 44240

Ohio Edison/First Energy

OHIO RAIL DEVELOPMENT COMMISSION INTER-OFFICE COMMUNICATION

TO: Randall Schumacher, Rail Division, PUCO

FROM: Cathy Stout, Manager, Safety Section, ORDC

BY: James Tucker, Project Manager, ORDC

SUBJECT: Portage County, TR157/Seasons Rd. DOT #472675D

Wheeling & Lake Erie, PID 104305.

DATE: September 27, 2017

The Public Utilities Commission of Ohio (PUCO) established a diagnostic survey at the subject location on October 11, 2016. The Ohio Rail Development Commission (ORDC) attended the review. The Diagnostic Team recommended the improvement of warning devices to flashing lights and roadway gates, with the surface to be replaced as well. Copies of the diagnostic review form and the plan and estimate are attached.

PE has already been provided by the railroad. ORDC approves the site plans and estimates as provided. Please issue a construction-only order for the project outlined above for nine month's. This construction authorization is made with the stipulation and understanding that any field work needs prior approval before the work begins. This authorization is made with the stipulation and understanding that an approved estimate may contain entries for items or activities that may be cited and found to be ineligible for federal participation during the project audit.

It is expected that all work necessary for FHWA acceptance of the warning devices will be completed by the in-service due date and that the <u>railroad will be responsible</u> for this work. This work includes, but is not limited to:

- any ancillary work to make warning devices function as designed and visible to the roadway user, and
- MUTCD compliance including minor roadway work if necessary.

Thank you for your assistance with these matters.

Attachment: Diagnostic Review

Plan & Estimate

c: Jill Henry, PUCO

ORDC Project Manager (file)





Mail Stop #3140, 1980 West Broad Street, Columbus OH 43223 John R. Kasich, Governor • Mark Policinski, ORDC Chairman

September 27, 2017

Mr. Tim Andrews Wheeling & Lake Erie Railway (WLE) 100 East First Street Brewster, Ohio 44613

RE: Portage County, Seasons Rd. DOT 472675D, PID# 104305

Dear Mr. Andrews:

The plan and estimate dated June 26, 2017, for the referenced project has been reviewed and is acceptable. WLE may proceed with the construction of the proposed grade crossing warning system and surface replacement in accordance with the abbreviated plan. This authorization is made with the stipulation and understanding that the approved estimate may contain entries for items or activities that may be cited and found to be ineligible for federal participation during the project audit. Reimbursement of eligible actual cost is limited to \$291,994.79 split as follows \$197,432.54 for light and gates and \$94,562.25 split 50/50 for surface reconstruction. Additional costs must be approved in writing by the Ohio Rail Development Commission (ORDC) prior to being incurred. Emergency verbal authorizations by ORDC may be permitted and will be confirmed by ORDC in writing within ten (10) business days of the verbal approval.

This authorization is contingent upon WLE accepting the following instructions:

- 1. WLE's project foreman will furnish written notification five (5) working days prior to the date work will start at the project site to James Tucker, ORDC, email James.tucker@dot.state.oh.us and to the Public Utilities Commission of Ohio at jill.henry@puco.state.oh.us. WLE's project foreman will also notify the same of any stops and re-starts of the work activity and of the date work was completed for the project.
- 2. WLE will arrange for utilities to be located at the project site by the Ohio Utilities Protection Service (OUPS) prior to any construction activities at the site. Utilities that are not participating members of the service must be contacted directly by WLE.
- 3. WLE's project foremen will notify James Tucker at <u>James.tucker@dot.state.oh.us</u> (email) of any changes in the scope of work, cost overruns, material changes, etc. which are not included in the approved plan and estimate and secure approval of same before the work is performed.
- 4. Open cut of roadways is not permitted except in unusual circumstances and must be coordinated with the local highway authority and preapproved by ORDC.



www.rail.ohio.gov phone: 614.644.0306

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- 5. WLE will furnish two (2) copies of each partial bill to ORDC. Please find the enclosed ODOT Purchase Order to reference when billing.
- 6. WLE will furnish two (2) copies of the final all-inclusive bill to ORDC stating the exact dates of starting and completing work, the initial and final dates of construction and location where the accounts may be audited.
- 7. This installation will include any ancillary work to make the warning devices function as designed and meet MUTCD.

Thank you for your assistance with these matters.

Sincerely,

James Tucker

Project Manager

J. J.

C: Randall Schumacher, Rail Division Supervisor, PUCO Jill Henry, Grade Crossing Planner, PUCO Susan Arduini, ORDC ORDC (file)

OHIO RAIL DEVELOPMENT COMMISSION



Mail Stop #3140, 1980 West Broad Street, Columbus OH 43223 John R. Kasich, Governor • Mark Policinski, ORDC Chairman

August 3, 2017

Mr. Tim Andrews Wheeling & Lake Erie Railway 100 E. First St. Brewster, Oh 44613

RE: Portage County, Seasons Rd, DOT #472675D, PID#104305

Dear Mr. Andrews:

The plan and estimate transmitted June 26, 2017, for the referenced project has been reviewed and is acceptable. Wheeling & Lake Erie may proceed with soliciting bids for the proposed grade crossing warning system in accordance with the abbreviated plan. This authorization is made with the stipulation and understanding that the approved estimate may contain entries for items or activities that may be cited and found to be ineligible for federal participation during the project audit.

A construction authorization will be sent once the bid documents have been received and approved. No field work may be started without a construction authorization from this office.

Sincerely,

James Tucker, Project Manager

Ohio Railroad Development Commission

C: Randall Schumacher, Supervisor, Rail Division, PUCO Jill Henry, PUCO, Grade Crossing Planner ORDC (file)



www.rail.ohio.gov phone: 614.644.0306

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WHEELING & LAKE ERIE RAILWAY COMPANY

Tim Andrews
Signal & Communication Supervisor
Tel. 330-767-7255

tandrews@wlerwy.com

100 East First Street Brewster, OH 44613 Fax: 330-767-3213

June 26, 2017

Ohio Rail Development Commission Mr. Eric Neff 1980 West Broad Street, Room 2B Columbus, OH 43223

Re: Estimate for Railroad Crossing Warning System at Seasons Rd. DOT 472675D

Dear Mr. Neff,

I am providing this estimate for the crossing package and installation at Seasons Rd. The estimate also includes the crossing surface rehab. Award of the material package will be the result of a competitive bid; copies of the submitted quotes will be forwarded to your office when they are completed. Installation of the signals will be performed under our continuing construction agreement with CTC LLC.

Engineering Services, CTC (breakout attached)	\$156,069.99
Fill Materials, transport, hauling	\$13,000.00
Preliminary Installation Services, Crosier	\$20,488.34
Electric Service, Emery	\$3,950.00
Electric Utility fees	\$4,200.00
WLE Direct Signal & MOW Labor	\$19,379.67
Galvanized signal foundations	\$1,178.00
Wintrow Construction – Crossing Surface	\$94,562.25

TOTAL: \$312,828.25

Please contact me if additional details are required.

1/

Respectfully,

Tim Andrews

Direct purchase from Fabricated Metals, 60' galvanized gate foundation, \$589.00 ea.

673 Norton Ave. Barberton, Ohio 44203 Tele: (330) 753-2983 6/22/2017 REV 1

WLE

Seasons Rd.

Kent, Ohio

Attn: Dan Reinsel Email: dreinsel@wlerwy.com

Replace existing road crossing at Season's Rd with 47.5' Oldcastle Star Track Crossing

Saw cut existing roadway 10' out from proposed crossing panels Remove existing crossing structure and road approaches per Sheet 5 Infill drop off areas with excavated materials and dispose of all remaining debris off site

Excavate ballast from underneath ties to required depth Install drainage and conduit in open cut if requested (no materials included in this bid)

Install LSM base to within 1" of bottom of new precast panels Install one inch of sand for a leveling/bedding surface for the panels and set pre-cast panels

Weld 19'6 transition rails to the ends of the 80' sticks of 115 RE

Install 115RE as required for installation in the crossing panels

Re-tie in the rail to the existing line with joint bars

Install 8 Allegheny joints provided by others (4 for island circuit and 4 for approach circuits)

Both rail approaches will receive 10 new 9' approach timbers Place asphalt for road approaches

Total Cost Estimate \$94,562.25

Contingencies/Notes

Pricing is based on manufacturer's standard detail. No responsibility for design is to be assumed by Wintrow Construction.

No testing is included in this pricing.

Road Closures, MOT, and detour signage to be provided

Road approaches will be needed to stage material and project access.

Sales Taxes Not included in Quotation

No Bond Cost is included in above pricing

Railroad Protective Liability Insurance is NOT included

No Warranty or Guarantees are apart of this proposal

Any Flagman costs, straight or premium costs are NOT included

"Hard Excavation" will be performed on T&M

Weather conditions prevail and may affect the construction schedule.

Track must be free of rail cars and rail traffic.

One Mobilization is included in the quotation.

Engineering, plans and layout survey by others.

Wheeling and Lake Erie Railroad Stow, Ohio - Seasons Rd (TR 157) DOT# 472 675D Project Estimate - CN17035

ENGINEERING									
Description	Description Qty UOM Unit Price Amount								
SIGNAL DESIGNER	80	HR	32.69		\$2,615.20				
SIGNAL CHECKER, LEVEL 1	10	HR	39.66		\$396.60				
SIGNAL CHECKER, LEVEL 2/FIELD ENGINEER		HR	36.06		\$0.00				
SUBTOTAL					\$3,011.80				
G&A BURDEN FOR LABOR					\$5,511.59				
FIXED FEE					\$852.34				
ENGINEERING TOTAL					\$9,375.73				

PROJECT MANAGEMENT									
Description Qty UOM Unit Price Amount									
SENIOR SIGNAL ENGINEER	12	HR	\$75.48	\$905.76					
PROJECT MANAGER	24	HR	\$39.66	\$951.84					
CONSTRUCTION MANAGER	80	HR	\$39.66	\$3,172.80					
ACCOUNTING, LEVEL1	16	HR	\$39.81	\$636.96					
ADMINISTRATIVE	4	HR	\$25.48	\$101.92					
SUBTOTAL				\$5,769.28					
G&A BURDEN FOR LABOR				\$10,557.78					
FIXED FEE				\$1,632.71					
PROJECT MANAGEMENT TOTAL				\$17,959.77					

CONSTRUCTION LABOR									
Description Qty UOM Unit Price Amount									
SIGNAL FOREMAN	80	HR	\$29.04	\$2,323.20					
SIGNALMAN	80	HR	\$23.40	\$1,872.00					
SIGNAL HELPER	160	HR	\$19.00	\$3,040.00					
SUBTOTAL				\$7,235.20					
G&A BURDEN FOR LABOR				\$13,240.42					
FIXED FEE				\$2,047.56					
CONSTRUCTION LABOR TOTAL			-	\$22,523.18					

CONSTRUCTION LABOR EXPENSES								
Description	Description Qty UOM Unit Price Amount							
EMPLOYEE MEALS (PER DIEM)	32	EA	\$30.00	\$960.00				
EMPLOYEE TRAVEL & LODGING	32	EA	\$70.00	\$2,240.00				
SUBTOTAL				\$3,200.00				
CONSTRUCTION LABOR EXPENSES TOTAL				\$3,200.00				

4/26/2017

Wheeling and Lake Erie Railroad Stow, Ohio - Seasons Rd (TR 157) DOT# 472 675D Project Estimate - CN17035

CONSTRUCTION EQUIPMENT								
Description Qty UOM Unit Price Amount								
TRUCK, PU, 1 TON CREW CAB	80	HR	\$15.71	\$1,256.80				
TRUCK, BOOM, ART, TELESCOPING	0	HR	\$55.95	\$0.00				
TRAILER, UTILITY, 4 TIRE, 12,000lbs SC410	80	HR	\$7.55	\$604.00				
RENTAL EQUIPMENT (FORK LIFT/BACKHOE/SKYTRAK)	2	WK	\$1,200.00	\$2,400.00				
EQUIPMENT DELIVERY/PICKUP	1	LS	\$150.00	\$150.00				
SUBTOTAL				\$4,410.80				
CONSTRUCTION EQUIPMENT TOTAL				\$4,410.80				

MATERIAL						
Description	Qty	ИОМ	Unit Price	Amount		
HOUSE MATERIAL (SEE ATTACHED DETAIL)	1	LS		\$38,854.05		
FIELD MATERIAL(SEE ATTACHED DETAIL)	1	LS		\$44,876.46		
HOUSE AND SIGNAL WIRING	1	LS		\$8,000.00		
FILL DIRT	10	TN	\$7.50	\$75.00		
CONCRETE		YD	\$500.00	\$0.00		
COVER ROCK	30	TN	\$26.50	\$795.00		
BORING 4"		FT	\$35.00	\$0.00		
ELECTRICAL PERMITS		EA	\$3,500.00	\$0.00		
METER POLE ASSY AND INSTALLATION		EA	\$2,500.00	\$0.00		
FREIGHT & CONTAINER PRICE	1	LS		\$6,000.00		
SUBTOTAL				\$98,600.51		
MATERIAL TOTAL				\$98,600.51		

TOTAL PROJECT ESTIMATE	<i>\$156,069.99</i>
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4/26/2017 2

HOUSE MATERIALS								
Description	QTY	UOM	MANUFACTURER PN	Unit Price	Total Price			
HOUSE 6X6 AL WLE W/2-23" RKS	1	EA	PTMW	\$11,500.00	\$11,500.00			
ASSY TSA-1A W/TTA3 ARRESTORS	4	EA	250787-000	\$134.00	\$536.00			
EPC TD-4 TRACK DRIVER	1	EA	800-081033-100	\$712.00	\$712.00			
RECTIFIER 5/5 CRAGG 5LA-N1	1	EA	5LA-N1	\$348.00	\$348.00			
CHARGER 40A 12V CRAGG 40ETC12V	2	EA	017061-203	\$673.27	\$1,346.53			
RECTIFIER POWER CORD 14/4 SJE BLK	70	FT		\$1.00	\$70.00			
BATTERY GNB 150AH	1	EA		\$500.00	\$500.00			
BATTERY NICAD 250 AH SPL-250	19	EA		\$290.00	\$5,510.00			
TRAY BATTERY 12 X 27" POLYETHYLE	4	EA	7438-01	\$32.96	\$131.82			
THERMOSTAT SPDT REMOTE BULB 8A	1	EA	009186-004	\$73.94	\$73.94			
RLY DPDT 12VDC 5A OCT	4	EA	007192-032	\$13.22	\$52.89			
SCKT RLY 8-PIN OCT SCREW PNLMT	4	EA	132246-001	\$4.48	\$17.91			
POWER OFF LIGHT KIT	1	EA		\$116.40	\$116.40			
NUT INSULATED HARMON	20	EA	013986-000	\$2.97	\$59.40			
SSCCIII PLUS 40 AMP 19" BASE	1	EA	91190-0101	\$5,628.00	\$5,628.00			
PANEL LTG SURGE SSCC 91170-01	1	EA	201756-015	\$608.75	\$608.75			
MICRO DATA ANALYZER II WLE PK	1	EA	072113-100	\$3,450.00	\$3,450.00			
MDA CURRENT SENSOR	2	EA		\$220.00	\$440.00			
BATTERY GROUND DETECTOR	1	EA	NAS	\$1,250.00	\$1,250.00			
RELAY 500 OHM 6FB NEUTRAL	2	EA	ST1 400000	\$750.00	\$1,500.00			
RELAY 4 OHM 6FB NEUTRAL	3	EA	ST1 400010	\$870.00	\$2,610.00			
RELAY PLUGBOARD B1 W/10-14 CRIMP TERMINALS	5	EA		\$203.00	\$1,015.00			
WIRE 16AWG/19 TC EPR/PVC BLU	300	FT	012092-002	\$0.22	\$66.00			
WIRE 10AWG/19 TC EPR/PVC BLU	350	FT	012092-000	\$0.62	\$215.60			
WIRE 6AWG/19THHN BLK	50	FT	012253-000	\$0.79	\$39.60			
WIRE 6AWG/19 THHN RED	50	FT	012253-003	\$0.84	\$41.80			
WIRE 6AWG/19 THHN GRN	30	FT	012253-002	\$0.75	\$22.44			
CABLE RAW 3/14AWG PWR 300V	30	FT	012690-010	\$0.77	\$23.10			
RES ADJ WW 15W 10 OHM	2	EA		\$30.00	\$60.00			
RES ADJ WW 15W 5.69 OHM PNLMNT	5	EA	002238-101	\$26.09	\$130.46			
CONN PLUG L6-15 250V 15A 2P3W	3	EA	132286-001	\$11.53	\$34.58			
ASSY 2WAY TERM BLK W/AAR HARD	6	EA	202810-000	\$15.82	\$94.91			
ASSEMBLY, 4 POST TERMINALBLOCK	4	EA	203032-000	\$43.48	\$173.93			
ASSY TERM STRIP DBL POST 12	2	EA	250094-300	\$19.77	\$39.53			
GROUND POST P5-162	4	EA	113047-000	\$25.94	\$103.75			
WRENCH AAR TERMINAL	1	EA	095058-001	\$15.28	\$15.28			
LABEL, DANGER 240 V, 1.75 X 2.	1	EA	SQS109	\$3.86	\$3.86			
NOTIFICATION SIGN HSE	_	EA	HSE SIGN	\$312.55	\$312.55			

FIELD MATERIALS								
Description	QTY	иом	MANUFACTURER PN	Unit Price	Total Price			
KIT TORQUE WRENCH S/T 070981X	1	EA	2587-01	\$256.38	\$256.38			
SO CORD 10/3	60	FT		\$0.90	\$54.00			
GATE ARM 16-32' UHI LED LGHTS	2	EA	076045-014	\$613.73	\$1,227.47			
SLEEVE 4 ALUMINUM REC #92958	2	EA	14187-01	\$44.33	\$88.66			
LED INSERT DIALIGHT FLX4000	8	EA	076048-109	\$247.76	\$1,982.11			
CONDUIT PACKAGE	1	LOT		\$1,200.00	\$1,200.00			
DECAL, DOT STRIP	2	EA		\$16.00	\$32.00			
ASSY WLE STANDARD FLASHER/GATE W/O ARM, GATE ARM LIGHTS, GATE KEEPER	2	ASSY	стс	\$14,300.00	\$28,600.00			
TAPE MARKER BURIED RR CABLE	1	EA	029989-000	\$21.43	\$21.43			
CABLE UG 3 COND #6 AWG SOLID	150	FT	1013-02	\$4.06	\$608.85			
CABLE UG 7 COND #6 AWG SOLID	700	FT	1077-02	\$6.29	\$4,404.40			
CABLE UG 7 COND #14 AWG SOLID	700	FT	1023-02	\$2.22	\$1,555.40			
WIRE UG TRK #6 AWG DUPLEX	800	FT	1094-02	\$1.46	\$1,170.40			
PVC CEMENT, 1QT W/BRUSH TOP	1	EA		\$7.15	\$7.15			
GRINDING WHEEL 6IN X 1IN	4	EA		\$30.00	\$120.00			
BOOTLEG KIT/1 PR TRACKWIRE WLE STANDARD	4	EA	D&W SB7100090	\$184.00	\$736.00			
BOND JOINT 5/16" X 7" TAB ERICO #SB-	200	EA	2161-01	\$5.41	\$1,082.40			
WIRE #6 SOFT BARE COPPER	30	FT	1436-01	\$0.40	\$11.88			
CARTRIDGE SB25 POWDER W/ATTACHMETAL FOR	200	EA	1026-39	\$1.55	\$310.20			
ROD 5/8 X 8 NS GRD***USE-02***	6	EA	1357-01	\$14.72	\$88.31			
CONNECTION SBNT1-161G ONE-SHOTFOR 5/8 IN	6	EA	1029-01	\$6.17	\$37.03			
CADWELD TYPE GR 5/8GRDX#6WIRE	6	EA	005755-002	\$7.10	\$42.57			
BOND STRAND 8-STR 3/16" TINNEDSBS8TINSUL	100	FT	4133-01	\$1.21	\$121.00			
TRACK RECTIFIER, RING-10	2	EA	800-004080-000	\$119.00	\$238.00			
PLATE SHUNT 24"X26"X1/4" GALV.	2	EA	6193-01	\$67.06	\$134.11			
SCREW LAG 3/4" X 6" BLACK GRIMLET PO	8	EA	2000-01	\$0.81	\$6.51			
TAPE ELECTRICAL 3M #33+ 3/4" PLASTIC	2	RL	1190-01	\$3.62	\$7.24			
DUCTSEAL 1LB BLOCK	10	EA		\$3.30	\$33.00			
FOAM INSULATING SPRAY	4	EA		\$12.25	\$49.00			
STAPLE GROUND WIRE 1-1/16"X3"	50	EA	113005-000	\$0.32	\$15.95			
TIE CABLE .184 X 7.31" HIG TEMSELF LOCKI	100	EA	4125-01	\$0.04	\$4.40			
LUG RNG 1/4" 12-10AWG INS BLK	100	EA	032114-008	\$0.01	\$1.10			
TAG ST-5 SNAPOUT 11 TAGS/CARD MI# 010301	50	EA	2090-01	\$2.28	\$113.85			
STAPLE COPPERWELD 3/8 X 1-3/4 144 IN. RO	50	EA	1148-01	\$0.26	\$13.20			
GREASE RUST PREVENTIVE NO OXID"A SPECIAL	1	EA	1906-01	\$9.83	\$9.83			
SLEEVE NICO 3/16"-#6 AWG REDUC#2363-J	20	EA	1145-01	\$0.89	\$17.82			
CLIP TRACK WIRE RETAINER - ERICO #SBA	12	EA	1118-01	\$1.97	\$23.63			
COMPOUND DUCT SEAL 5 LB PLUG PERMAGUM #	5	PK	1179-01	\$10.68	\$53.41			
LOCK MASTER	4	EA	MLCK	\$28.41	\$113.65			
EMERGENCY SIGN SIGNAL	1	EA	SIG SIGN	\$113.65	\$113.65			
FIELD TAG KIT	1	EA	FLDTGKT	\$170.48	\$170.48			

DWG. NO.	DESCRIPTION		REV. GENERAL NOTES
00	INDEX		
01	SITE LAYOUT		
02	CROSSING SIGNAL ALIGNMENT		
03	SITE LAYOUT NOTES		
04	CROSSING CONTROL CIRCUITS		
05	RELAYS		
06	RECORDER		
07	BGD		
08	SSCC PLUS		
09	1LSP		
10	СТР		
11	GATE #1 MECHANISM (NEAR SIDE)		
12	GATE #1 LIGHTS (NEAR SIDE)		
13	GATE #2 MECHANISM (FAR SIDE)		
14	GATE #2 LIGHTS (FAR SIDE)		
15	BATTERY CHARGER	>	
16	AC POWER DISTRIBUTION		
17	RACK FRONT VIEW		
18	RACK BACK VIEW		
19	SIDE "A"		THE OPERATION OF THE CIRCUITS AND EQUIPMENT REPRESENTED HEREIN CANNOT BE FULLY CHECKED UNTIL ALL CIRCUITS
20	SIDE "C"		THE OPERATION OF THE CIRCUITS AND EQUIPMENT REPRESENTED HEREIN CANNOT BE FULLY CHECKED UNTIL ALL CIRCUITS AND DEVICES ARE CONNECTED TO FORM A COMPLETE SYSTEM, OR AN EFFECTIVE SUBSYSTEM. SUCH SYSTEM OR SUBSYSTEM MUST BE GIVEN COMPLETE CIRCUIT AND OPERATIONAL TESTS BEFORE BEING PLACED IN REGULAR OPERATION.

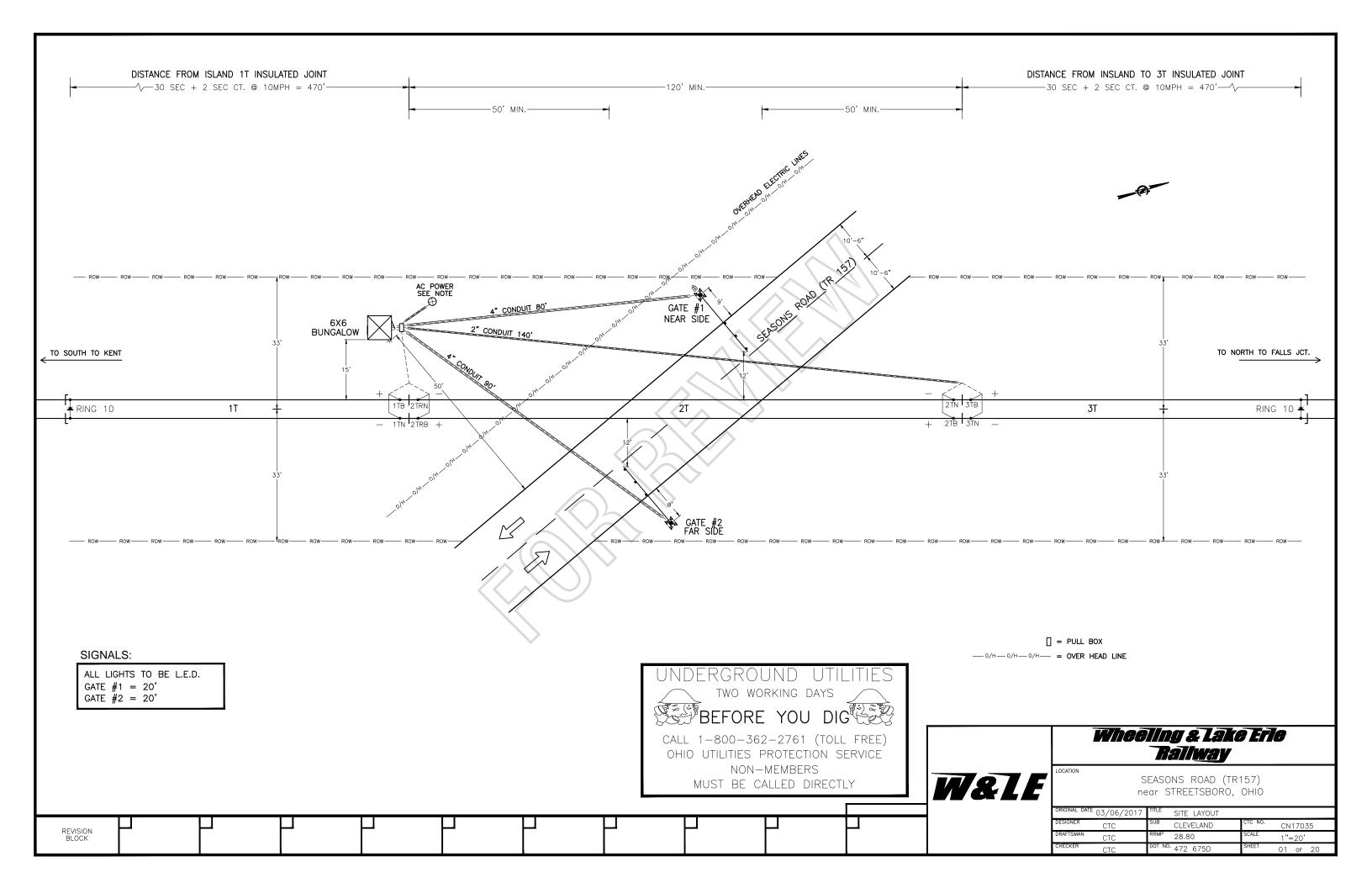
WELF LOCATION

Wheeling & Lake Erle Railway

SEASONS ROAD (TR157) near STREETSBORO, OHIO

ORIGINAL DATE	03/06/2017	TITLE	INDEX		
DESIGNER	CTC	SUB	CLEVELAND	CTC NO.	CN17035
DRAFTSMAN	CTC	RRMP	28.80	SCALE	N.T.S.
CHECKER	CTC	DOT NO.	472 675D	SHEET	00 of 20

CHANGE FROM TYPICAL: N



CONSTRUCTION NOTES 1.) INSTALL NEW 6' X 6' BUNGALOW IN SOUTHWEST QUADRANT. 2.) INSTALL (2) NEW FLASHING LIGHTS WITH GATES. 3.) METER POLE LOCATION SHOWN ON THE PLAN IS SUBJECT TO CHANGE WITHIN RAILROAD RIGHT-OF-WAY IF UNDERGROUND OBSTRUCTIONS PREVENT THE INSTALLATION OF THE POLE IN THE LOCATION SHOWN. 4.) BUNGALOW LOCATION SHOWN ON THE PLAN IS SUBJECT TO CHANGE WITHIN RAILROAD RIGHT-OF-WAY IF UNDERGROUND OBSTRUCTIONS PREVENT THE INSTALLATION OF THE BUNGALOW IN THE LOCATION SHOWN. INSTALL 8 INSULATED JOINTS. ALL GAUGE RODS TO BE INSTALLED OR REPLACED WITH TIES. Wheeling & Lake Erle Railway W&LE SEASONS ROAD (TR157) near STREETSBORO, OHIO ^{TE} 03/06/2017 CONSTRUCTION NOTES CLEVELAND CN17035 28.80 N.T.S. ^{NO.} 472 675D



CROSSING SIGNAL ALIGNMENT

LEGEND

\triangle	GATE #1 FRONT MAST LIGHTS
B	GATE #1 BACK MAST LIGHTS
0	GATE #2 FRONT MAST LIGHTS
(GATE #2 BACK MAST LIGHTS

ALIGNMENT

FRONT LIGHTS
ADJUST LIGHT UNIT VERTICALLY TO ALIGN AXIS OF BEAM 5FT. 6IN. ABOVE PAVEMENT AT SELECTED ALIGNMENT DISTANCE. BOTH LAMPS SHOULD BE ALIGNED TO SAME POINT.

ADJUST LIGHT UNIT HORIZONTALLY TO ALIGN AXIS OF BEAM TO CENTER OF APPROACH LANE IN APPROACH TO SIGNAL AT SELECTED ALIGNMENT DISTANCE, MAINTAINING VERTICAL ALIGNMENT. BOTH LAMPS SHOULD BE ALIGNED TO SAME POINT.

BACK LIGHTS
ADJUST LIGHT UNIT VERTICALLY TO ALIGN AXIS OF BEAM 5 FT. 6 IN. ABOVE PAVEMENT AT A POINT 50 FT. IN APPROACH TO THE SIGNAL ON OPPOSITE SIDE OF TRACK.

ADJUST LIGHT UNIT HORIZONTALLY TO ALIGN AXIS OF BEAM TO A POINT 50 FT. IN APPROACH TO THE SIGNAL ON OPPOSITE SIDE OF TRACK AND IN CENTER OF APPROACH TRAVEL WAY.

W&LE LOCATION

Wheeling & Lake Erle Railway

SEASONS ROAD (TR157) near STREETSBORO, OHIO

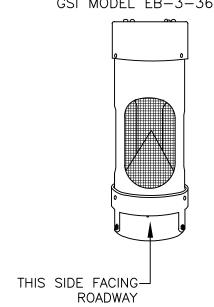
ORIGINAL DATE	03/06/2017	TITLE	CROSSING SIGNAL	ALIGNMEN'	T
DESIGNER	CTC	SUB	CLEVELAND	CTC NO.	CN17035
DRAFTSMAN	CTC	RRMP	28.80	SCALE	N.T.S.
CHECKER	CTC	DOT NO.	472 675D	SHEET	02 of 20

SITE LAYOUT NOTES

1.) CROSSING IS LOCATED: LATITUDE LONGITUDE

41.2012275 -81.3777716

ELECTRONIC CROSSING BELL GSI MODEL EB-3-360-5



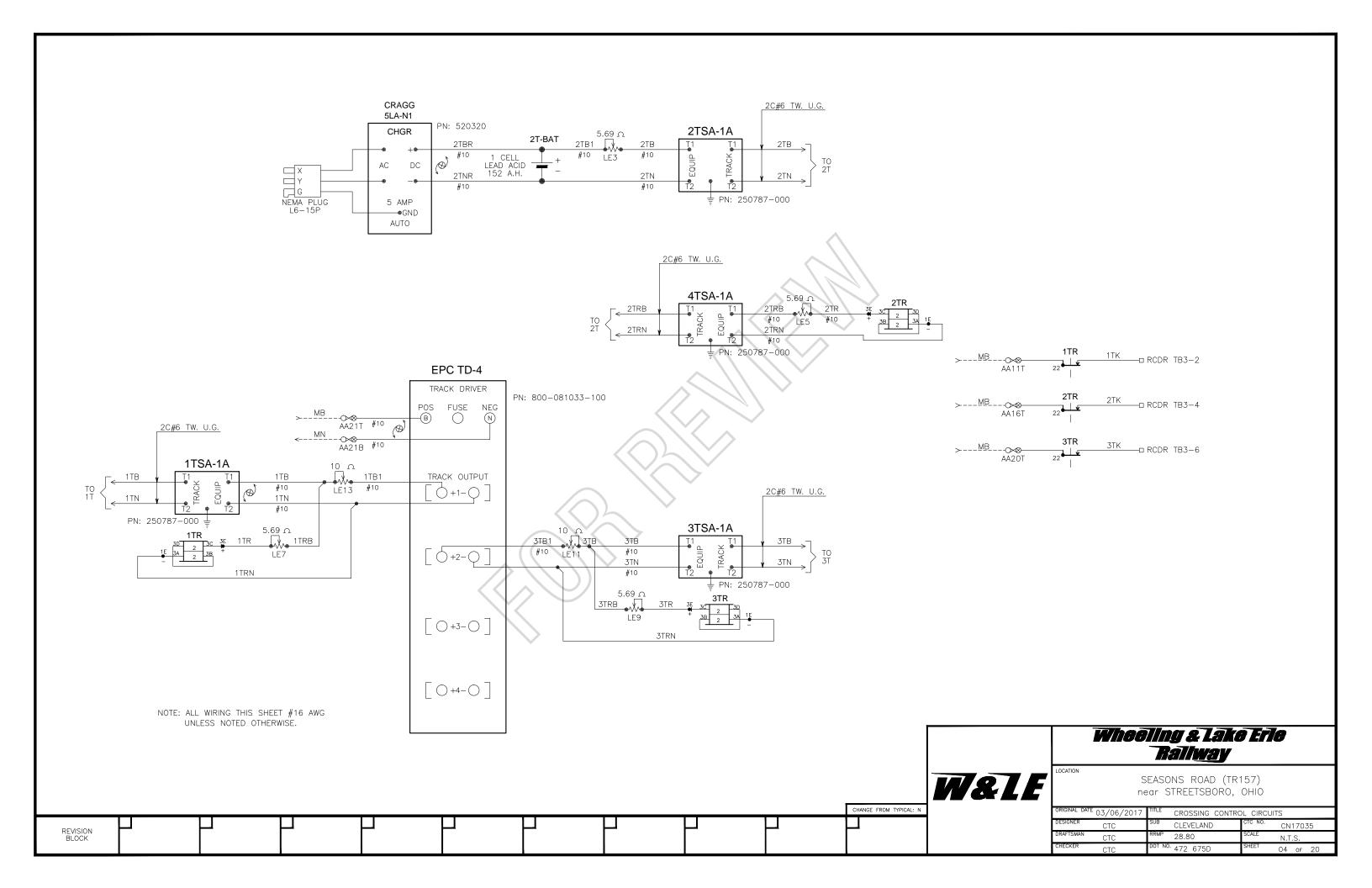
W&LE

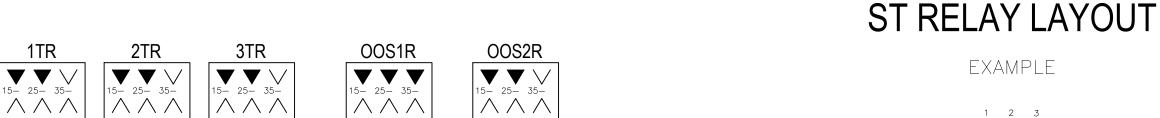
Wheeling & Lake Erle Railway

SEASONS ROAD (TR157) near STREETSBORO, OHÍO

ORIGINAL DATE (3/06/2017	TITLE	SITE LAYOUT NOTE	.s		
DESIGNER	CTC	SUB	CLEVELAND	CTC NO.	CN1703	5
DRAFTSMAN	CTC	RRMP	28.80	SCALE	N.T.S.	
CHECKER	CTC	DOT NO.	472 675D	SHEET	03 of	20

					CHANGE THOM TH
REVISION BLOCK					



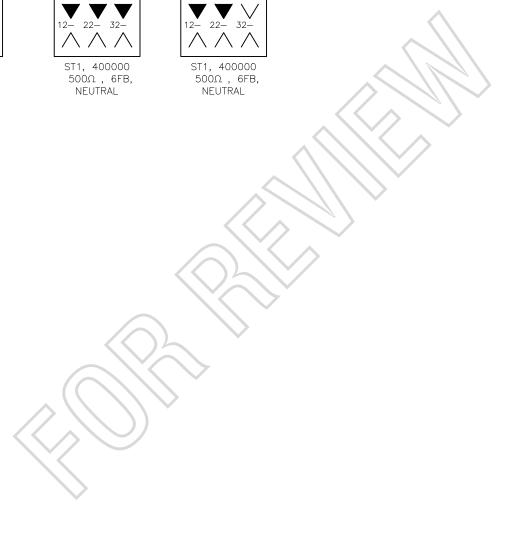


1 2 3 12- 22- 32-ST1, 400000 500Ω, 6FB, NEUTRAL

ST1, 400000 500Ω , 6FB, NEUTRAL

> CONTACT, NOT USED CONTACT, USED

FRONT HEEL BACK



LEGEND:

1TR = TRACK RELAY (1T)

2TR = TRACK RELAY (2T)

3TR = TRACK RELAY (3T)

OOS1R = OUT OF SERVICE RELAY

12- 22- 32-

ST1, 400010 4 Ω, 6FB,

NEUTRAL

12- 22- 32-

 $\wedge \wedge \wedge$

ST1, 400010 4 Ω, 6FB,

NEUTRAL

12- 22- 32-

 $\wedge \wedge \wedge$

ST1, 400010 4 Ω, 6FB,

NEUTRAL

OOS2R = OUT OF SERVICE RELAY

W& LE

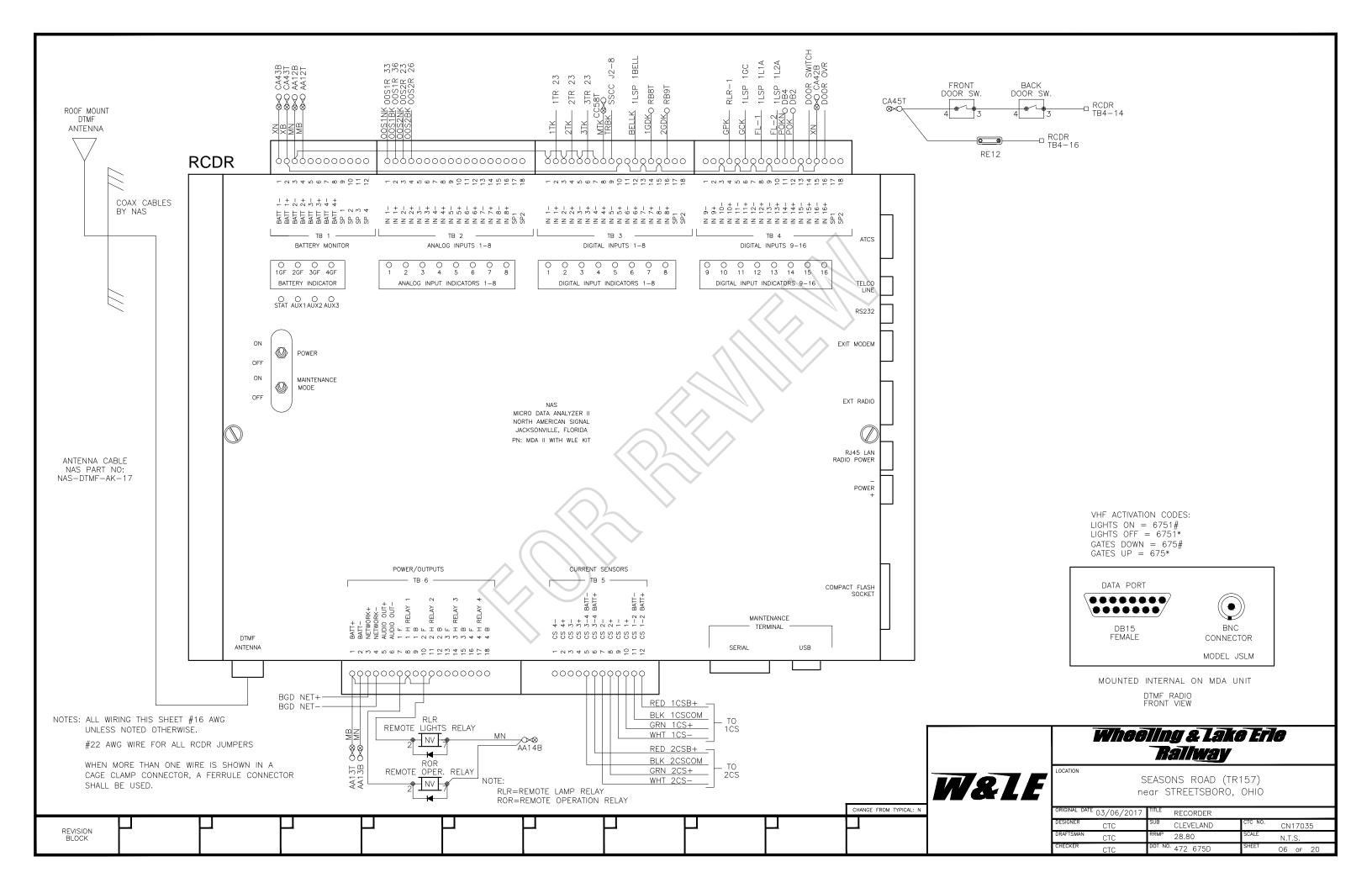
Wheeling & Lake Erie Railway

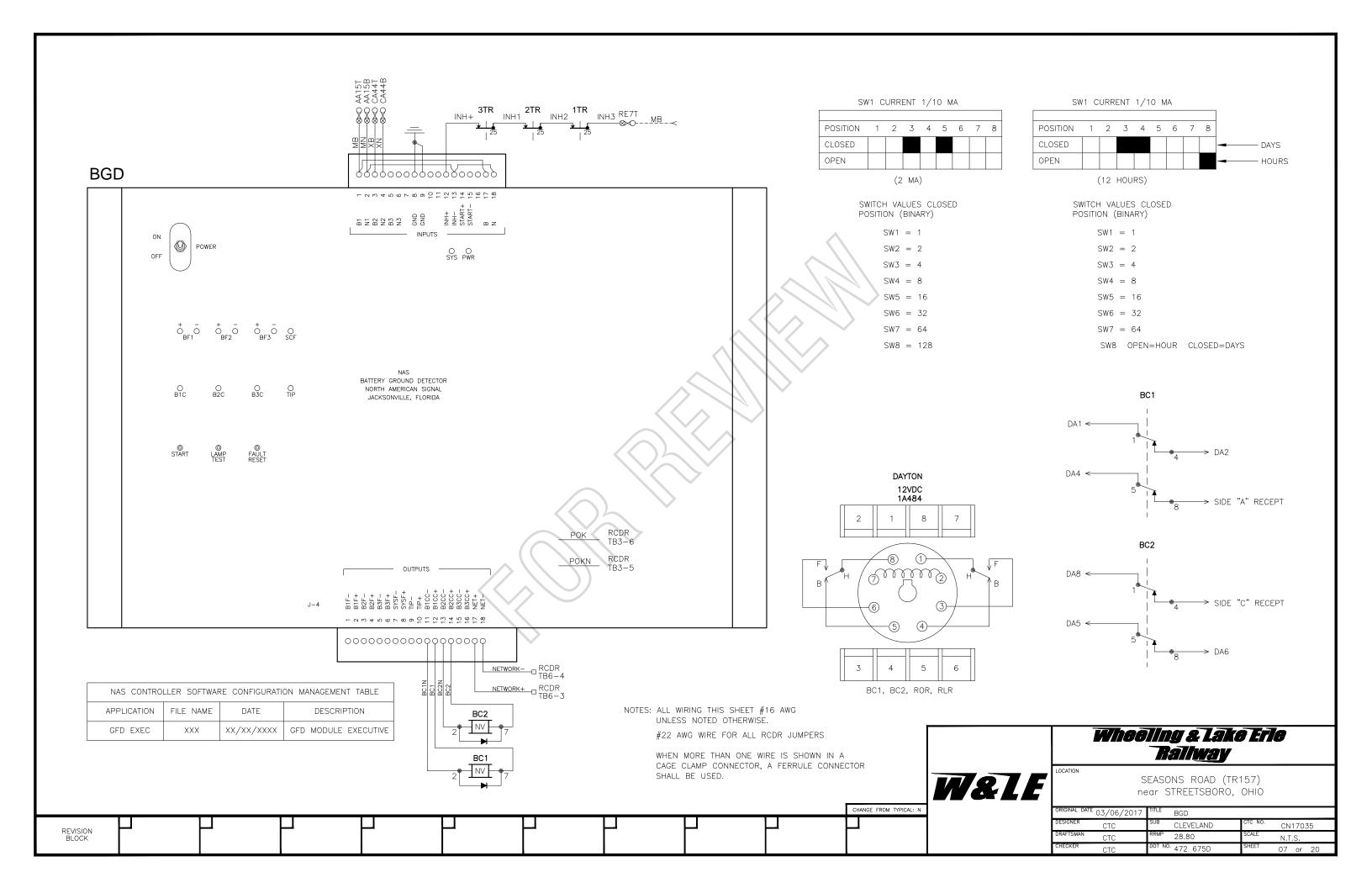
SEASONS ROAD (TR157) near STREETSBORO, OHIO

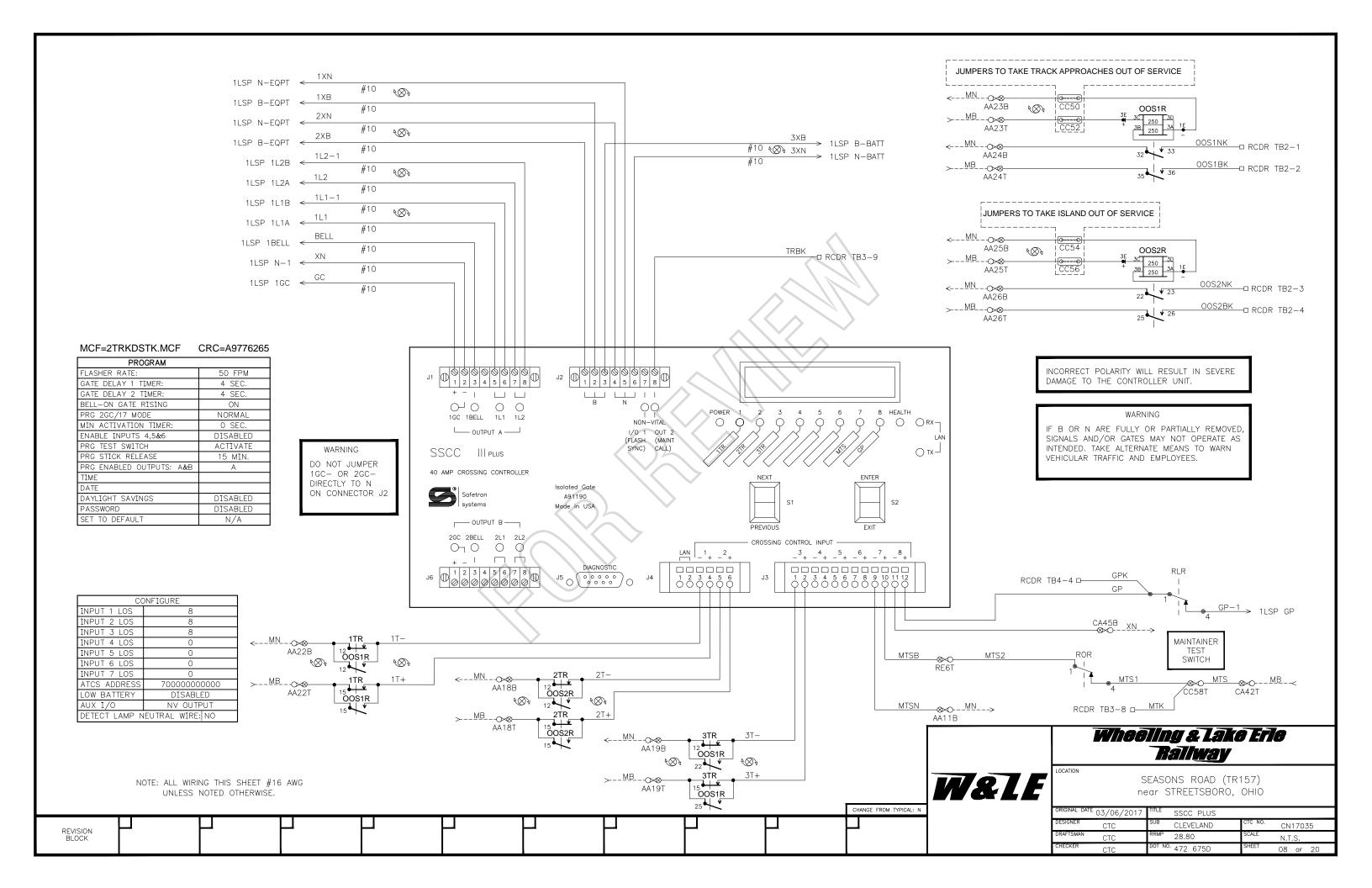
ORIGINAL DATE 03/06/2017	TITLE RELAYS	
DESIGNER CTC	SUB CLEVELAND	CTC NO. CN17035
DRAFTSMAN CTC	RRMP 28.80	SCALE N.T.S.
CHECKER	DOT NO. 472 675D	SHEET 05 OF 20

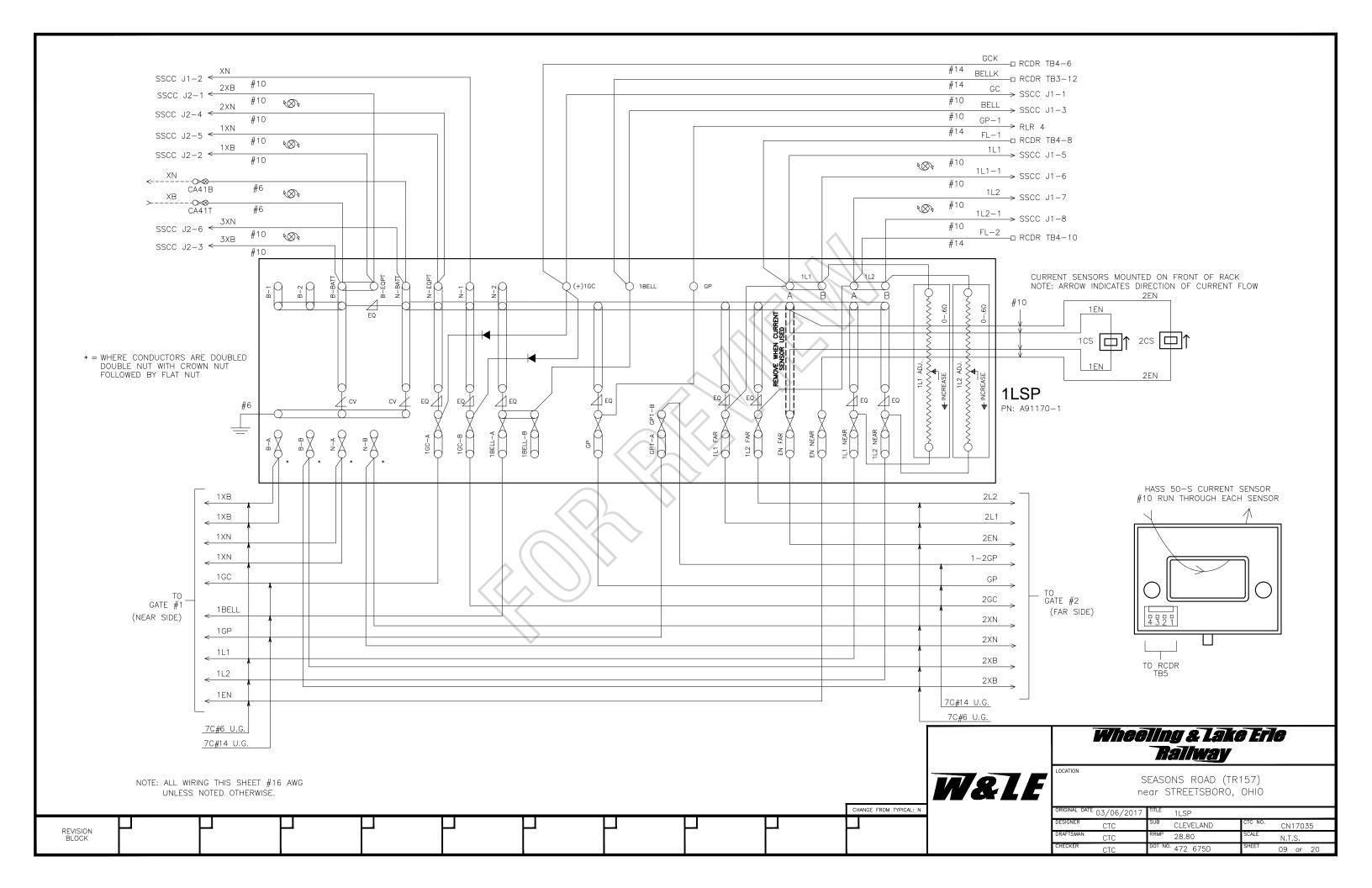
* = FIELD ADJUSTMENT NA = NOT APPLICABLE

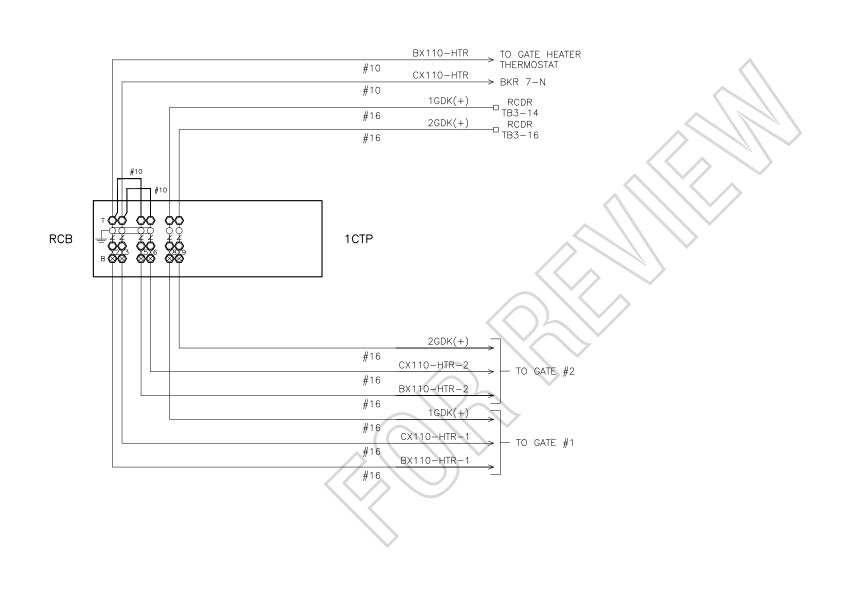
CHANGE FROM TYPICAL: Y











LEGEND:

= INSULATED NUT

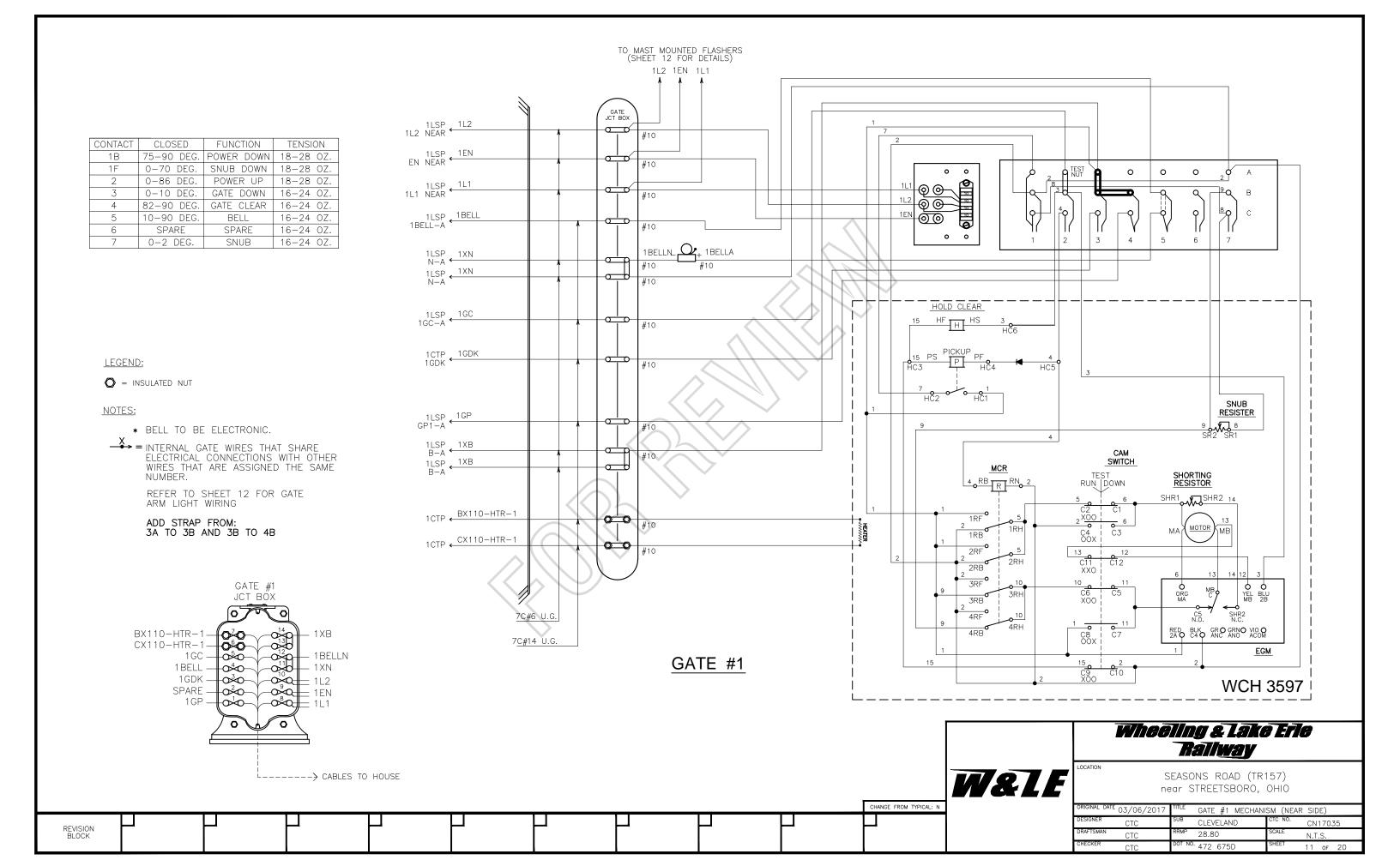
LOCATION SEASONS near STREE

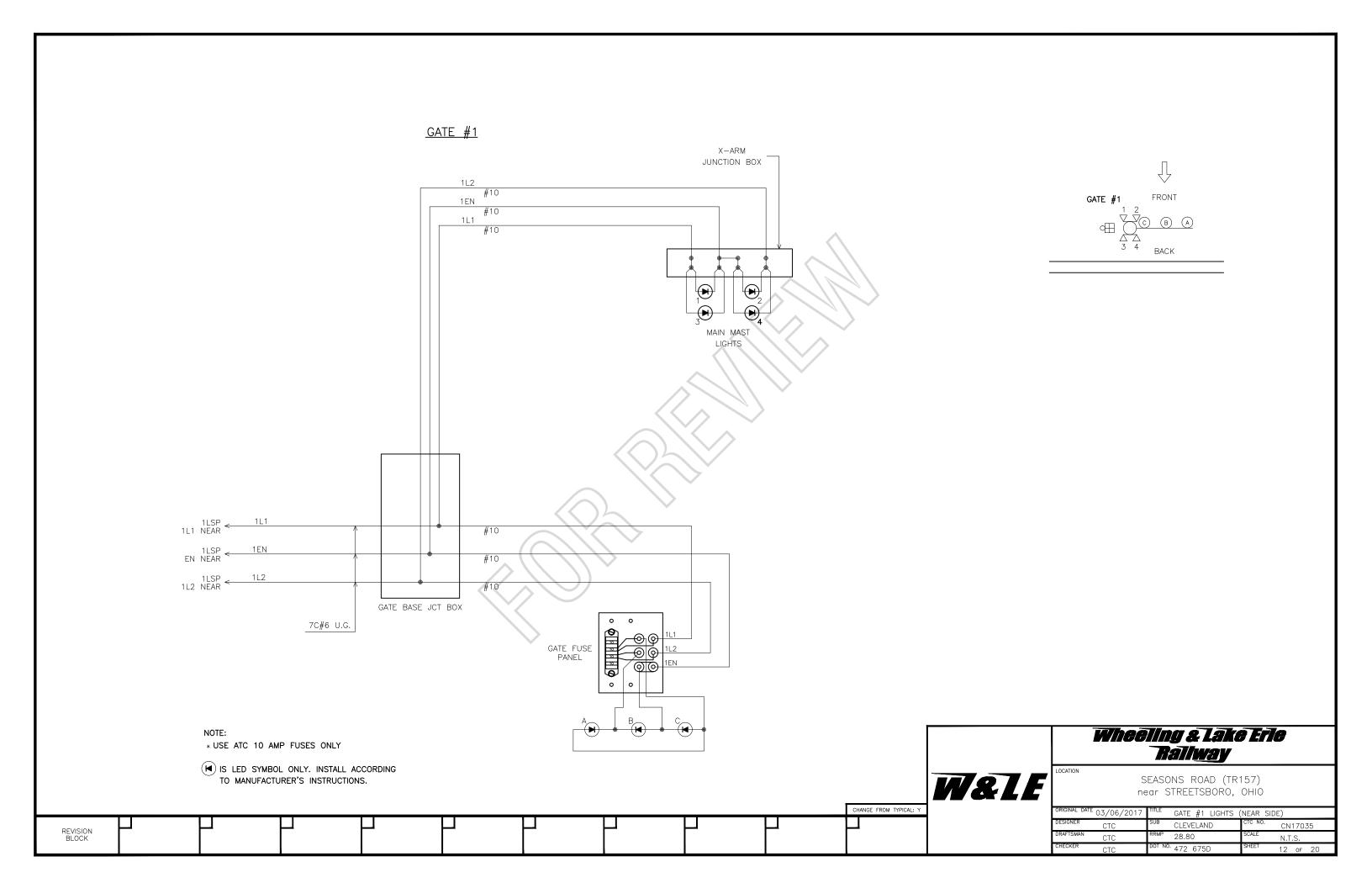
CHANGE FROM TYPICAL: N

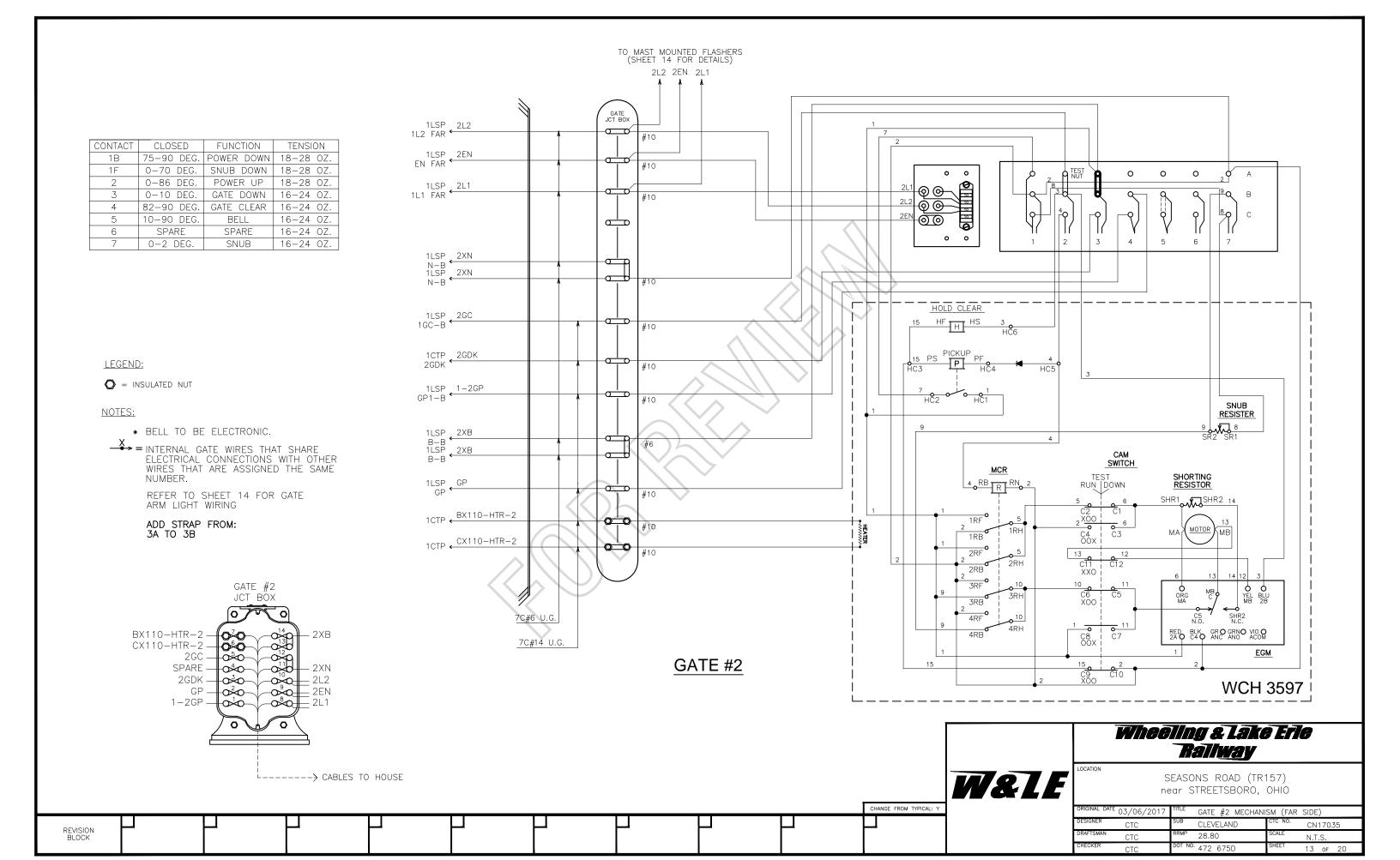
Wheeling & Lake Erle Railway

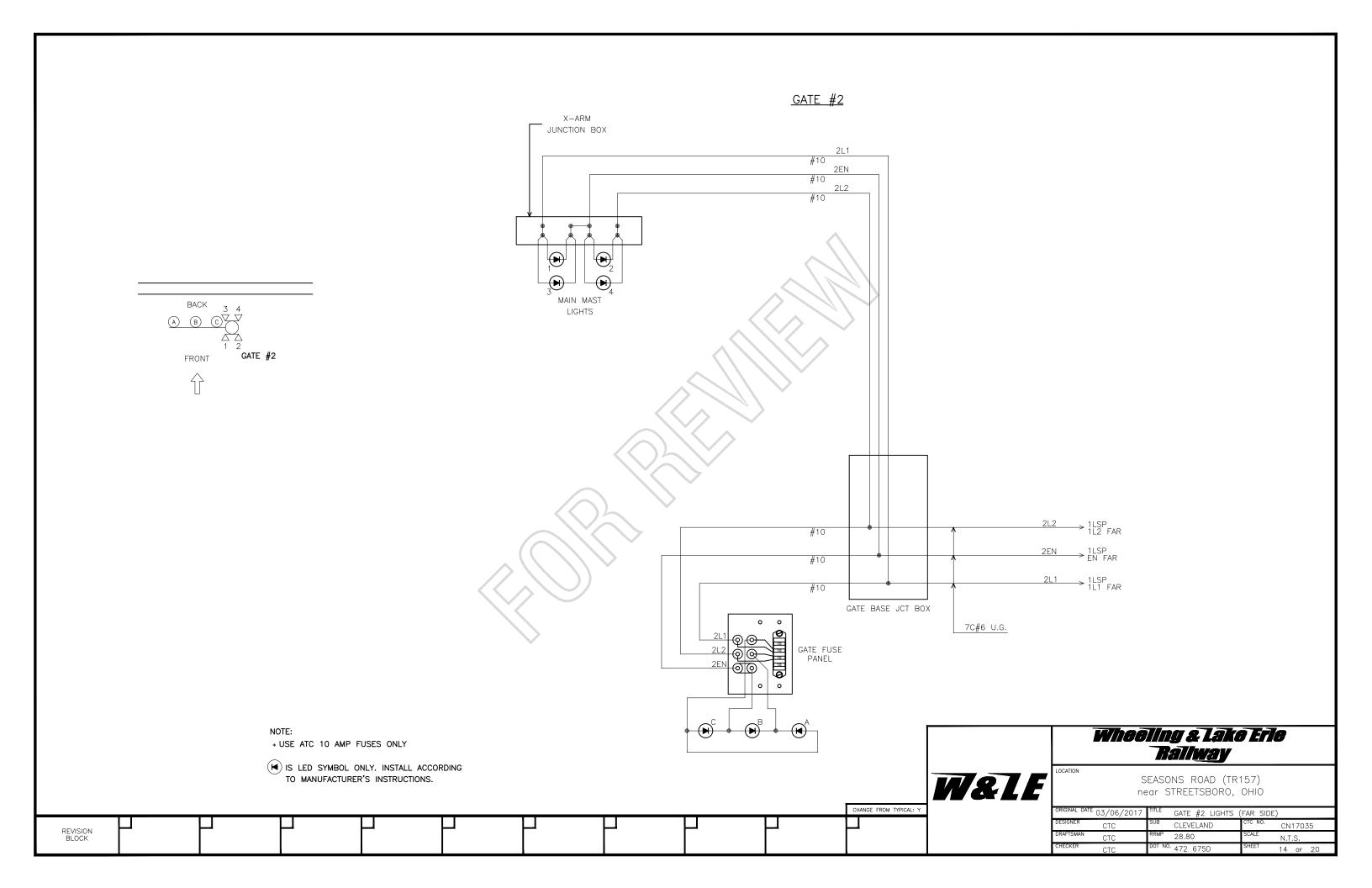
SEASONS ROAD (TR157) near STREETSBORO, OHIO

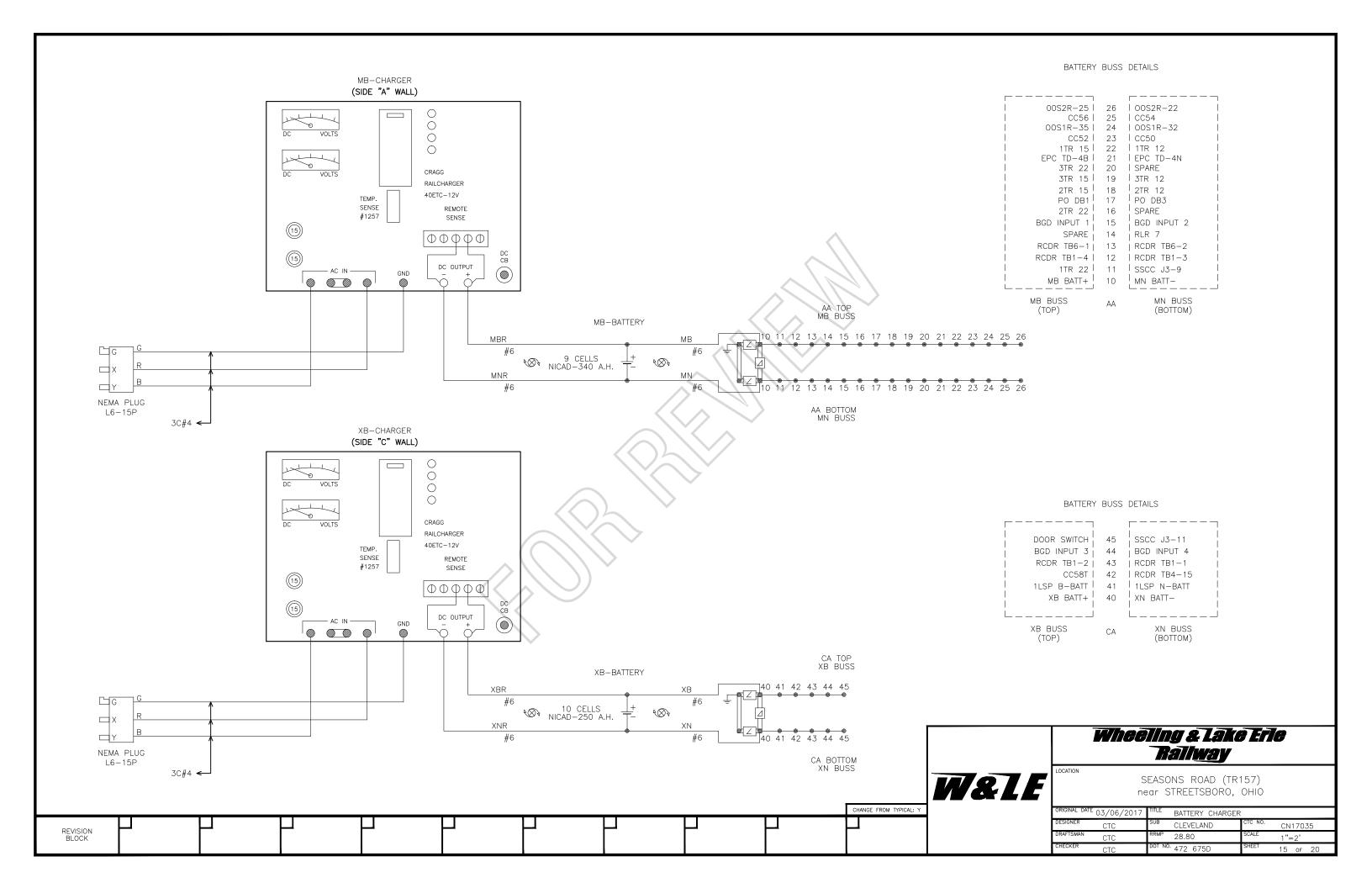
ORIGINAL DATE 03/06/20	D17 TITLE	CTP		
DESIGNER CTC	SUB	CLEVELAND	CTC NO.	CN17035
DRAFTSMAN CTC	RRMP	28.80	SCALE	N.T.S.
CHECKER CTC	DOT NO	· 472 675D	SHEET	10 or 20

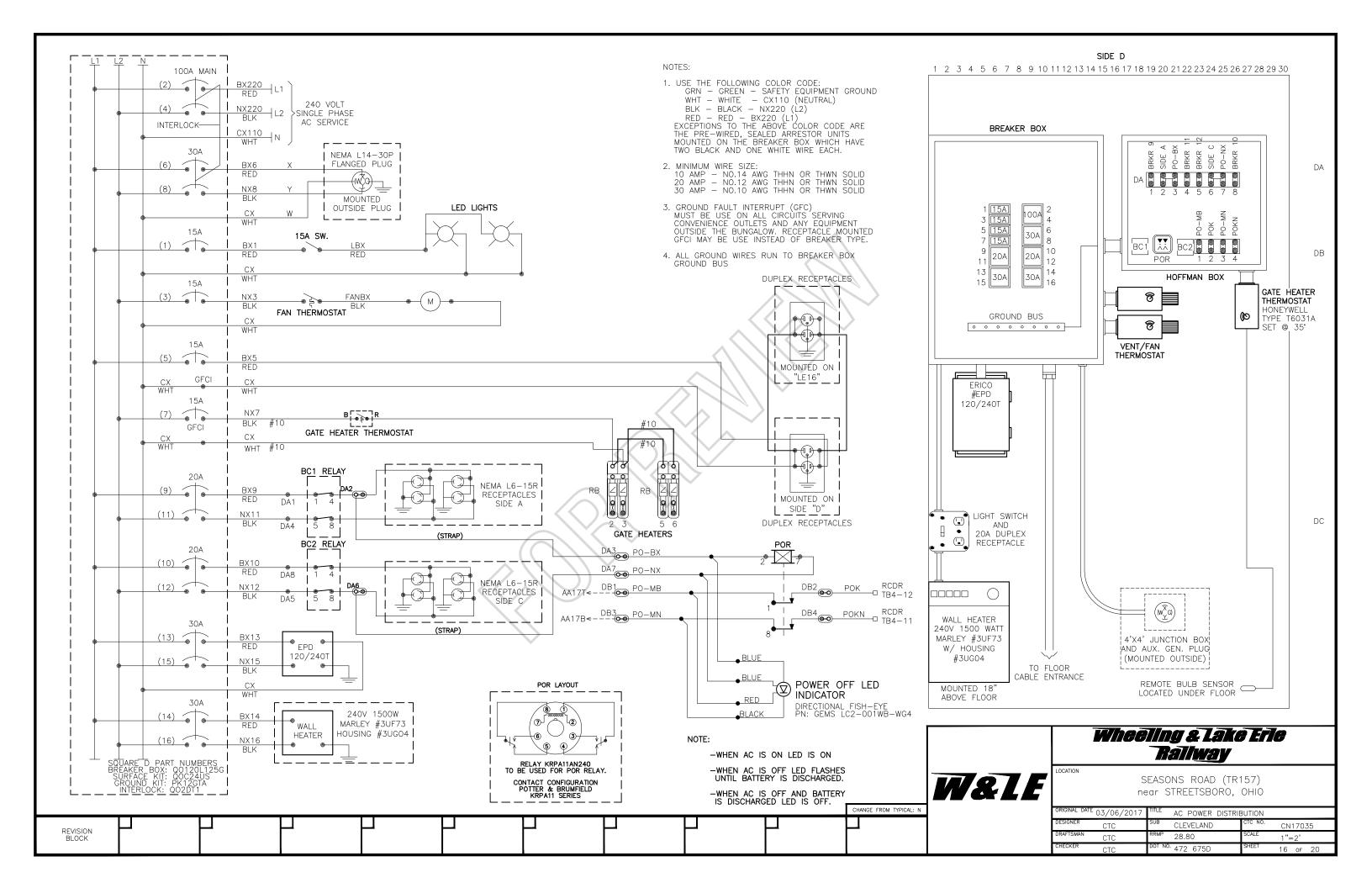


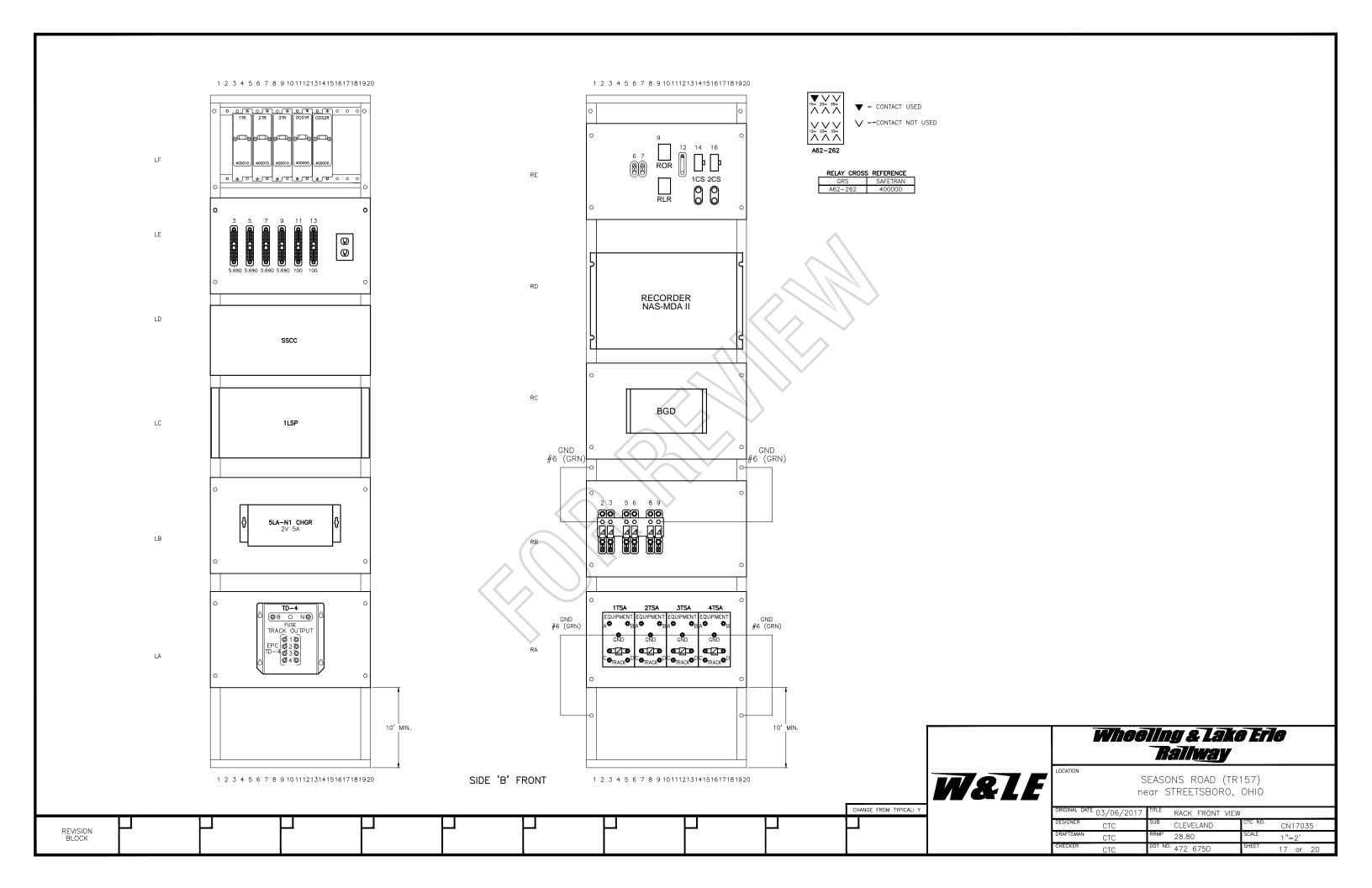


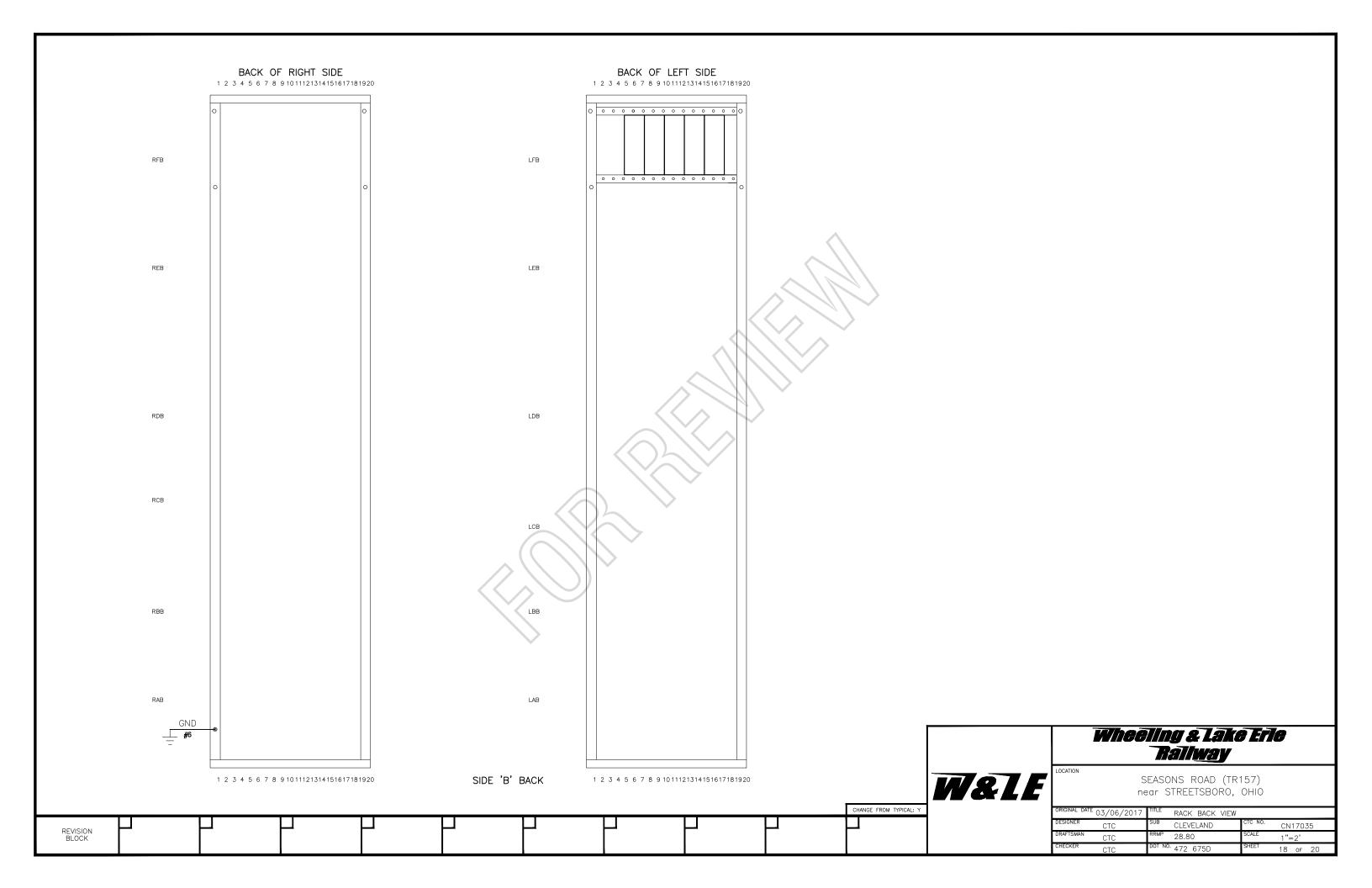


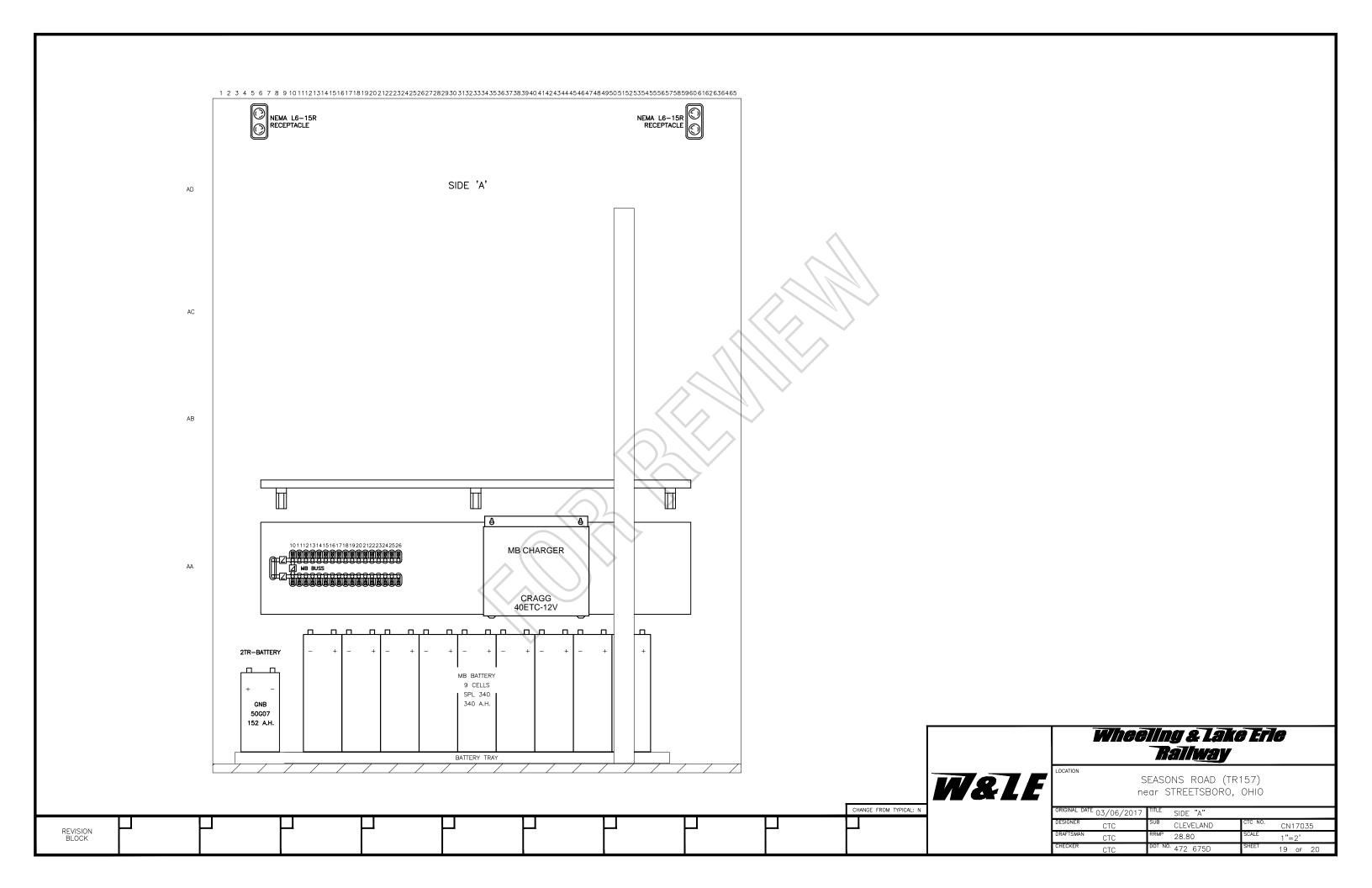


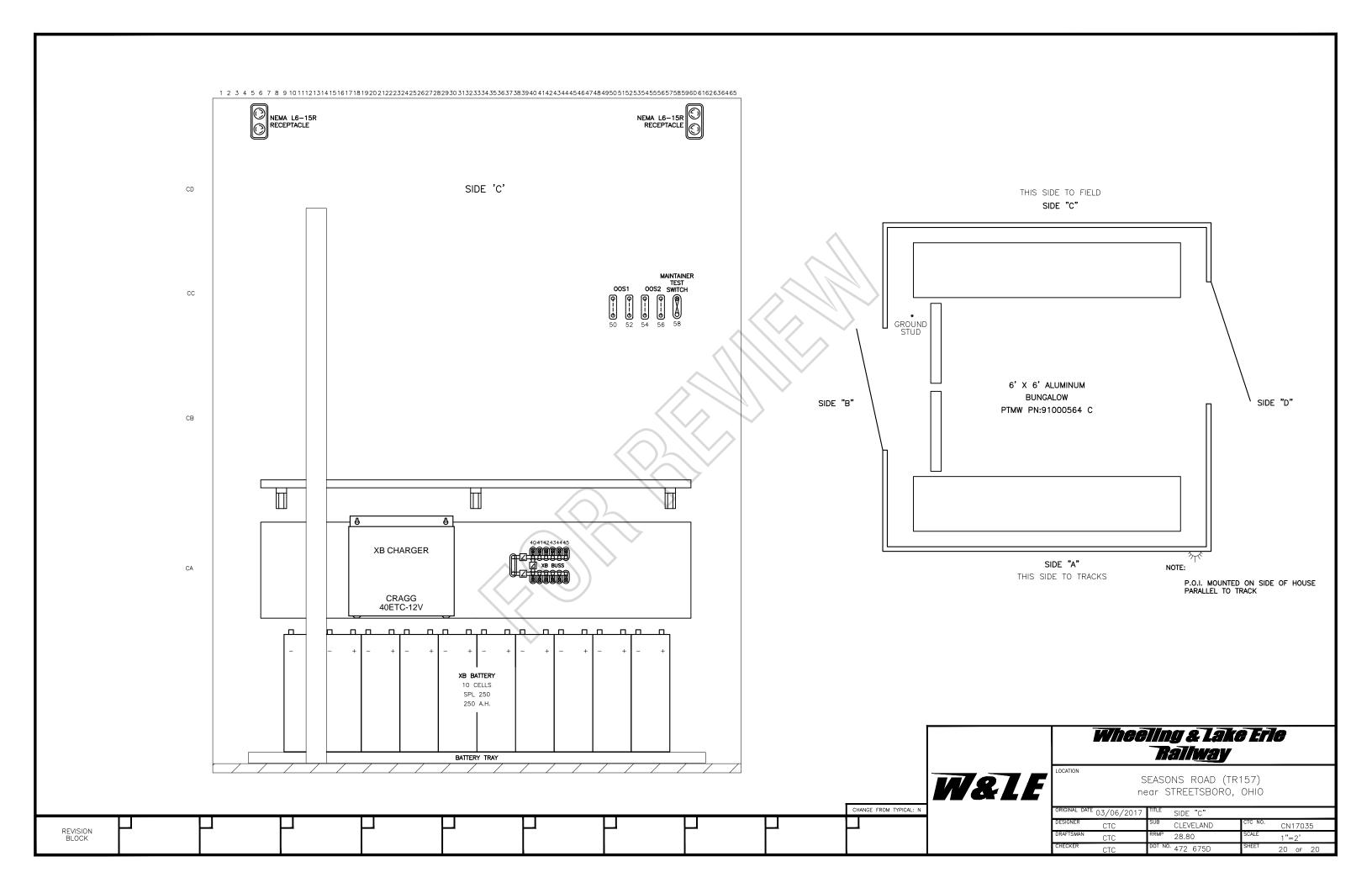














OHIO RAIL DEVELOPMENT COMMISSION

Mail Stop #3140, 1980 West Broad Street, Columbus OH 43223 John R. Kasich, Governor • Mark Policinski, ORDC Chairman

February 6, 2017

Mr. Tim Andrews Wheeling & Lake Erie 100 East First St. Brewster Oh, 44613

RE: Portage County, TR157/Seasons Rd, DOT# 472675D, PID# 104305

Dear Mr. Andrews:

A diagnostic review was held at the above grade crossing on October 11 2016. The crossing has been recommended for the installation of lights and gates. It was also determined that the surface will be replaced with that cost being split 50/50 between the ORDC and the Wheeling & Lake Erie.

Wheeling & Lake Erie (WE) is authorized to proceed with the site plans and cost estimates (PE) or bid package for this project. This authorization is made with the stipulation and understanding that any field work needs prior approval before work begins. This authorization is made with the stipulation and understanding that an approved estimate may contain entries for items or activities that may be cited and found to be ineligible for federal participation during the project audit.

The diagnostic review form is attached. Please note any recommendations (page 5), if any, made by the team with regard to requirements for this location. Any minor roadway work necessary for MUTCD compliance should be incorporated into the PE and such costs will flow through the railroad reimbursement process.

The Project Manager for this project is James Tucker. James can be reached at (614) 398-6897, or james.tucker@dot.ohio.gov, if you have any questions.

Sincerely

Project Manager

C: Randall Schumacher, Supervisor, Rail Division, PUCO

Jill Henry, Grade Crossing Planner, PUCO

Susan Arduini, ORDC

ORDC (file)

Attachment:

1 (diagnostic review form)



www.rail.ohio.gov phone: 614.644.0306

IMPROVING RAIL TODAY FOR TOMORROW'S ECONOMY

Commissioners

Lynn Slaby M. Beth Trombold Thomas W. Johnson Vacant

January 24, 2017

Wheeling & Lake Erie Railroad Mr. Tim Andrews Signals & Communications Supervisor 100 E. First Street Brewster, Ohio 44613

> Re: 1) Portage County, Seasons Road, DOT#472-675D, hereinafter referred to as the "Project"

Dear Mr. Andrews:

The Public Utilities Commission of Ohio (PUCO) has identified and the Ohio Rail Development Commission (ORDC) surveyed, on October 14, 2016, the above mentioned grade crossing for warning device upgrades. The location has been approved for flashing lights and roadway gates. In addition to the flashing lights and roadway gates, the location has been approved for a surface reconstruction.

The Project shall comply with Agreement No. 0001-A, dated September 17, 1990 and Reconstruction Agreement No. 6781, dated February 10, 1992, entered into by the State of Ohio and Wheeling & Lake Eric Railroad (WE). Furthermore, the RAILROAD shall comply with all applicable state and federal laws governing grade crossing safety programs.

Preliminary engineering (PE) and construction costs for the flashing lights and roadway gates shall be borne one hundred percent (100%) by ORDC. Preliminary engineering (PE) and construction costs for the surface reconstruction shall be borne fifty percent (50%) by ORDC and fifty percent (50%) by RAILROAD.

Reimbursable costs will be limited by ORDC based upon approved estimates and bid tabulations, if applicable. These limits will be quantified by the ORDC in its construction authorization to the RAILROAD and may be amended by the ORDC based upon revised estimates and bid tabulations. Additional costs must be approved in writing by the ORDC prior to being incurred. Emergency verbal authorizations by ORDC may be permitted but must be confirmed in writing within ten (10) business days of the verbal approval.

The RAILROAD shall complete plans and estimates for the Project within ninety (90) days after the RAILROAD is notified of authorization to proceed unless otherwise agreed by ORDC/PUCO and the RAILROAD.

The RAILROAD shall not commence construction prior to PUCO's Order or ORDC's construction authorization. The RAILROAD shall provide written notification of the

180 East Broad Street Columbus, Ohio 43215-3793

(614) 466-3016 www.PUCO_ohio.gov Page 2 of 2 Portage County WE Seasons Road Letter Agreement

construction start date to PUCO and ORDC no later than five (5) business days prior to such date.

Please indicate your acceptance of the terms and conditions of this Letter of Agreement by signing and returning one (1) copy to Ms. Jill Henry, Rail Specialist, Rail Division, Public Utilities Commission of Ohio, 180 E. Broad Street, Columbus, Ohio 43215-3793.

Sincerely,

Milan Orbovich

Director of Transportation

Public Utilities Commission of Ohio

nabellebornek

Date //34/17

Wheeling & Lake Eric Railroad

3y ___

Title S.A.C. Supervisor

Date /- 25-1/

Matthew Dietrich Executive Director

Ohio Rail Development Commission

Date 1-27-17

OHIO RAIL DEVELOPMENT COMMISSION

Diagnostic Review Team Survey

Reason for Survey: (e.g. formula, accident, constituent, etc.)	Formula	Date: 10/11/2016
Location Data	20 (20 (20 (20 (20 (20 (20 (20 (20 (20 (
Street or Road Name: Seasons Road	d	
Route/Road Number (i.e. Twp., Co., SR or US)		US DOT No.: 472675D
County: POR Townsh	· Franklin I /	r Near) Near Streetsboro
Railroad Name: Wheeling & Lake Erie	Railroad Division:	Branch/Line Main
Nearest RR Timetable Station: Streetsboro		RR Milepost: 28.75
On-Site Review Team		
(Include: Name - Organization - Phone Nu	mber – Email)	
1. James Tucker	ORDC 414-398-6	1897 James, Tucker@dot. OHio. 50
2. RANDY Johr	PUCO 330-495-3	•
3. Tim Andrews	WLE 330417-5	,
4. DOUG DIMAURO	P-C-E 330-296	6411 13/ MbecKnih @ neo. M. Com 687-8085 foxtwproad superegnation
5. Mark Becknip	Franklis Two, 330-	13/ Mbecknih @ neo. M. com
6. Jake Biltz	Franklin My 330-	687-8085 CCV LODGER & SURVER GHOW 1. 18#
7	7.00	The state of the s
·	•	
8		
.9	4.5.40	· · · · · · · · · · · · · · · · · · ·
Existing Traffic Control Dev	vices	
Type of Warning Devices	Installed?	Quantity/Comments
Advance Warning Signs (condition?)	Yes N	0 3
'Stop' Signs	▼ Yes	0 2
'Stop Ahead' Signs	☐ Yes 🔀 N	lo
Pavement Markings (condition?)	Y Yes □ N	0 2 3000
Crossbucks	✓ Yes ☐ N	0 2
Number of Tracks Signs	☐ Yes 🔀 N	0
Inventory Tags	ĭX Yes ☐ N	0
Interconnected Highway Traffic Signal	☐ Yes 🔀 N	lo
Mast-Mounted Flashing Lights	☐ Yes 📉 N	lo
Cantilever Flashing Lights		. •
Side Lights	Yes X	lo Number: Length:
Side Lights Automatic Gates	Yes X	lo Number: Length:
	Yes X N Yes X N Yes Yes	lo Number: Length: lo Number: Length:
Automatic Gates	Yes X N Yes X N Yes Yes Yes Yes X N	lo Number: Length: lo Number: Length: lo Number: Length:
Automatic Gates Bells Sidewalk Gate Arms	Yes X N Yes X N Yes Yes Yes N Yes X N Yes X N Yes X N Yes X N	lo Number: Length: lo Number: Length: lo Number: Length: lo Number:
Automatic Gates Bells	Yes X N	lo Number: Length: lo Number: Length: lo Number: Length: lo Number:
Automatic Gates Bells Sidewalk Gate Arms 'No Turn' Signs Illumination	Yes X N Yes N	lo Number: Length: lo Number: Length: lo Number: Length: lo Number:
Automatic Gates Bells Sidewalk Gate Arms 'No Turn' Signs	Yes X N	lo Number: Length: lo Number: Length: lo Number: Length: lo Number:

Safety Data (Obtain crash reports, if possible, prior to review)							
	Init	ial Information (from database)	Revised				
Number & dates of crashes	0						
in previous 5 years Hazard Ranking	1502	Date Run: 9/30/16	1517 10/22/10				
Railroad Data	13023	Date Run. 7/30/10	1017-10				
Railroad Character	ristics	Initial Information (from database)	Revised				
Total trains per day	130103	2	11011300				
< I per day		-	·				
Day thru trains		1					
Night thru trains		1					
Daytime switching moven	nents						
Nighttime switching move	ements						
Total number of tracks		1					
Number of main tracks		1					
Number of other tracks							
Maximum train speed		25	25				
Typical train speed		2 6	25				
Amtrak							
If non-gated crossing, is clear	ing sight distan	ce adequate in all quadrants? (See Table 1)	X Yes ☐ No				
If multiple tracks, can two tra	ains occupy cro	ossing at the same time? Yes No					
•		another train at crossing? Yes (Explain be	elow) 🔍 No				
Can one or more tracks be e			,				
	á.	roadway within 100 ft of this crossing?	Yes VINo				
If yes, Crossing DOT #(if			Allo				
If yes, distance	(take me	asurement between track centerlines at close	st point along roadway)				
Roadway Data							
Local Highway Authority:		Franklin Township					
Roadway Characte	ristics	Initial Information (from database)	Revised				
Average daily traffic		1840 (2012)	1778 (2616)				
Highway paved		X Yes No	☐ Yes ☐ No				
Roadway Surface: 🔀 Blackt	op Gravel						
		Concrete Coner					
Roadway width: ZO ft.	<u>-г —</u>	Concrete Cottlei					
Roadway width: <u>ZO</u> ft. Number of highway lanes	<u> </u>						
Number of highway lanes	<u> </u>	2					
Number of highway lanes Urban or Rural	97	2 Rural					
Number of highway lanes Urban or Rural Vehicle Speed:MPH		2 Rural 35					
Number of highway lanes Urban or Rural Vehicle Speed:MPH School Bus Operation:N	√o ½ .Y	2 Rural 35 es _Z_ Amount					
Number of highway lanes Urban or Rural Vehicle Speed:MPH School Bus Operation:N Hazardous Materials Trucks:	√o 万 -Y	2 Rural 35					
Number of highway lanes Urban or Rural Vehicle Speed:MPH School Bus Operation:N Hazardous Materials Trucks: Shoulders:No	√o 万 4 Yo : □ No) 'Yes	2 Rural 35 es					
Number of highway lanes Urban or Rural Vehicle Speed:MPH School Bus Operation:N Hazardous Materials Trucks: Shoulders:No	No [%] Yo > Yes	2 Rural 35 es					
Number of highway lanes Urban or Rural Vehicle Speed:MPH School Bus Operation:N Hazardous Materials Trucks: Shoulders:No	No Market You have a second of the second of	Rural 35 es Z_Amount Yes .05 Amount Yes crossing vicinity? No Yes					

F _ ·	
Quadrant Curb and Gutter:	Quadrant Curb and Gutter:
Functional (Curb height = 4" or more)	Functional (Curb height = 4" or more)
☐ Non-functional (Curb height = Less than 4")	☐ Non-functional (Curb height = Less than 4")
ズ. None	None
Pedestrians: No Yes	
Is sidewalk present? No Yes	
Is there a nearby intersection that could cause queuing over the could response the could represent the co	rossing? No Yes
Distance	
Is this intersection signalized? 🔼 No 🔲 Yes	*
Are the signals currently interconnected with the existing crossi	ing warning devices? No Yes
Is there a 'Do not Stop on Track' sign? 📈 No 📗 Yes	
location in the foreseeable future? 🔀 No 💮 Yes	by new or upgraded traffic signal, sidewalk) planned at or near this
If yes, Improvement type Lead Agency	Timeline/completion -
Is it the consensus of the Diagnostic Review Team that this is a po	otential closure project: K No Yes
Explain reasons:	And the project of th
Type of Development	
Topon Space Direction tipped Location of poorty	v schools:
Industrial Commercial Kent Cray	schools = 2 milt
Kesidential	
Utility Information	
Is commercial power available? 🔲 No 📈 Yes	
Utility Provider (Company Name) OHis Edison	Phone Number
Nearest Available Power Source	
What other utilities are present? Gas Cable	Telephone Fiber Optic Cable
(add locations to sketch) Petroleum Water Other	Sanitary Sewer
<u></u>	
	Unknown
Comments:	

Potential Red Flags / Project Challenges			
Traffic Signal Preemption (include traffic signal intersection	on name and LHA with juris	diction over traffic	signal, if known):
NIA			e.
Crossing Consolidation or Closure:			
NIA			
Real Estate or ROW:			
NIA		e P	•
Culverts / Drainage / Ballast Conditions:	navev.		
NIA			
•			
Surface is in poor Cond Circuitry (e.g. reaches out to other crossings, specific ne NIA	•		
Environmental:	···		
NIA		·	
Other:			
	,		

Field Sketch	n/a		
Crossing Angle 0-29° 30-59° 60-90° Meas	ured in _	Quadrant?	

Diagnostic Team Recommendations	
	Quadrants Needed
Install/upgrade active devices	
Automatic Flashing Lights (AFLS)	
AFLS /Cants	
▼ AFLS / Gates	
AFLS / Gates / Cants	
Bells / number	1
Upgrade circuitry / type	,
Sidelights	
Guardrail Needed	
☐ Install/Replace curb	
Bungalow placement & offset from rail & highway	NW Quad.
Other (define)	, a doza.
Comments: This crossing needs a	new Surface.
☐ Install/upgrade traffic signal preemption	
☐ No improvements needed	
Other (define)	
acknowledgement): Deny Dimann Lancy a Joh	1 Shital
Field Dimensions	
Sidewalk Show North	
Sidewalk	
Parkway ,	
Roadway	
₹Ö′ Roadway	
Parkway	
Sidewalk	

County: Por Route: Seasons R	d. DOT#: 472675 D
Surface type	Condition
 Rubber seal and asphalt 	☐ Good
▼ Timber and asphalt	☐ Fair
☐ Asphalt	SX Poor
☐ Composite	Comments: Rough W/ Potholes
☐ Concrete panel	
☐ Full-depth timber	
☐ Full-depth rubber	
□ O ther	
Is the surface good and sufficient?	Yes / (No)
Vehicle type (cars, trucks, etc.):	-
CARS	
Surface conditions:	la dia Sian O
can venicles cross at posted speed?	lere is a Stop Sign @
Local observations/driver behaviors: 4	his Location. Most drivers
do not stop	
Relevant crash history: NIA	,
Do existing surface conditions have negative effect Explain:	s on the current or proposed warning devices?
Explain:	
Comments:	
	•
<u>~</u>	

Date: 10-14-16

Form completed by: _

TABLE I

Clearing Sight Distances

Maximum Authorized Train Speed	Distance (dT) Along Railroad from Crossing (ft)
1 - 10	240
15	360
20	480
25	600
30	720
35	840
40	960
45	1080
50	1200
55	1320
60	1440
65	1560
70	1680
75	1800
80	1920
85	2040
90	2160

Source: R-H Grade Crossing Handbook Table 36 (pp. 132-133)

Notes:

All calculated distances are rounded up to the next higher 5-foot increment.

Distances indicated are for 65-ft double bottom semi-tractor trailers and level single track 90 degree crossings; and may need to be adjusted for multiple tracks, skewed crossings or approaches on grades.

Clearing Sight Distance is to be measured in each vehicle travel direction at <u>non-gated crossings</u> as viewed from a point 25 feet from centerline of nearest track in the center of whichever travel lane is nearest the direction along track being measured.

Table 2

Stopping Sight Distances

Highway Vehicle Speed	Distance (dH) Along Roadway from Crossing (ft)
0	n/a
5	50
10	70
15	105
20	135
25	180
30	225
35	280
40	340
45	410
50	490
55	570
60	660
65	760
70	865

Source: R-H Grade Crossing Handbook Table 36 (pp. 132-133)

Notes:

All calculated distances are rounded up to the next higher 5-foot increment.

Distances indicated are for 65-ft double bottom semi-tractor trailers on dry level pavements.

Stopping Sight Distance is to be measured on each roadway approach to crossing from stop bar.

This foregoing document was electronically filed with the Public Utilities

Commission of Ohio Docketing Information System on

10/25/2017 8:33:27 AM

in

Case No(s). 17-2198-RR-FED

Summary: Application In the Matter of a Request for the Installation of Active Warning Devices and Surface Installation at the Wheeling & Lake Erie Railroad Grade Crossing, DOT# 472-675D, at Seasons Road/TR 157 in Portage County, Ohio. electronically filed by Mrs. Jill A Henry on behalf of PUCO/Rail Division