



NOTES: 1. Operating gate arm mechanisms shall be electrically driven 5. Sidewalk gate arms shall have one light, item 10. up and down. Mechanisms shall conform to AAR Signal Manual mounted as shown on Standard Plan CS-1001, sheet 2. Part 3.2.15, except as follows: 6. Sidewalk gate arms are to be used only where required. (a) Motor control and gate control function(s) to be pro-7. All crossing gate masts shall be constructed of 5' diameter vided internally in the mechanism. Function(s) to be aluminum, 6061-76 alloy, schedule 40 pipe (1/4" wall). controlled by a double break circuit from the relay 8. Mast 16', item 13 is to be used on installations without (b) Hold clear device should adhere to AAR specifications flashing light signals where roadway gate arms are re-0 including as an acceptable alternative R-22-a with a quired. Mast extension with wind quard asssembly, item 12, minimum air gap of .02' instead of .015'; R-22-b, R-22-c, is to be adapted to existing 6' mast, item 11, when required. R-22-d, and R-22-h with a minimum coil resistance of 70 9. Wind brackets will be installed on all roadway gate masts 2' below pinnacle or bell. (c) In addition to the circuit controller contacts required 10. Flashing light units, items 19 and 20 to have high impact in the AAR Signal Manual Paragraph 3.2.15, one adlexan roundels, item 18, with 15 degrees vertical and 30 0 ditional contact which will close at 10 degrees or less degrees horizontal infraction with high intensity hot spot. is required. (d) Mechanism to include a 25 watt heater in the housing 11. Flashing light signals shall be synchronized with flashing gate arm lights. Highway gate tip light and sidewalk gate for moisture prevention on contacts. (e) Mechanism to also include counterweight mounting light to be a steady light. brackets complete and counterweights suitable for a 24' 12. All lamps for flashing light units and gate arms to be furfiberglass gate arm. nished by CONRAIL as shown on Standard Plan CS-4000. (f) Mechanism to include conduit for attachment between 13. Track signs shall be installed in accordance with state conduit entrance in the mechanism and conduit entrance and local agencie's requirements. See items 21, 22, and 23 in base as shown on Standard Plan CS-1001 sheets 1&2. as shown on Maintenance of Way drawing 78302. Base end of conduit should be 2 National Pipe Thread connector. 14. "Stop on Red" sign, item 25, is to be used only in the (g) Roadway mechanism, item 14 is to be used in combination State of Michigan. with roadway and sidewalk gate arms. Item 15 is to be 15. Bells are to be furnished per local or state requirements. used with roadway or sidewalk gate arm. 16. A shock absorber, item 1, is to be installed on all road-(h) Roadway and sidewalk mechanism, item 15, must include all way gate arms 34' in length or longer, 12' from end of parts for auxiliary gate arm assembly, 02-563953. second section. 2. Roadway and sidewalk crossing gates will be construct-0 17. Clearance distances shown on Highway crossing Signal ed of fiberglass and stripped as shown on Standard Plan Location Plan CS-1000. CS-1003. 18. Plate, cover, item 27, will be used to cover 2'x4' unused 3. When power lines pass highway gate arms extreme care must cable hole in 16 foot roadway gate mast. be exercised to make certain that gate arms will clear all power lines by 2 feet, providing that power lines cannot be relocated. At all locations, gate arms will be at 90 de-0 SHEET 3 grees when in clear position unless prevented by overhead CONRAIL clearance and then all gate arms will be at the same angle when in the clear position. STANDARD 4. Gate arms will have breakaway mounting adpters and shear REV DATE 87 AUTOMATIC CROSSING GATE bolts as shown on Standard Plan CS-1001 sheet 1. AND SIGNAL ASSEMBLY ISSUE DATE: Nov. & 1906 REV. Aug 7, 1987 COM CAD

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