



DLS

**DATE:** August 22, 1988

**TO:** Distribution

**FROM:** J.R. Clark  
Chief Engineer - M.W.

**LOCATION:** P-1634

**SUBJECT:** Revised and New Standard Maintenance of Way Plans

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Attached are the following New and Revised Standard Plans:

70051-D	MINIMUM CLEARANCES
70123-E	BLACKTOP HIGHWAY GRADE CROSSING
70124-C	FARM GRADE CROSSING
71008-C	119-RE RAIL
71010-C	140-RE RAIL
71015-C	132-RE RAIL
71500-D	TRACK BOLTS
71501-E	RBM FROG BOLTS
71502-E	SGM FROG BOLTS
73157-D	13'-0" CURVED SPLIT SWITCH
73180-I	16'-6" WELDED STRAIGHT SPLIT SWITCH (NO. 8)
73184-I SH. 1	NO. 8 WELDED TURNOUT
73198-C	NO. 10 LAP TURNOUT
73501-D	SWITCH AND GAGE PLATES, 16'-6" SWITCH
73513-F	SWITCH AND GAGE PLATES, 39'-0" SWITCH
73514-F	VERTICAL SWITCH RODS AND CLIPS, 39'0" SWITCH
73515-H	HEEL BLOCK, ADJUSTABLE RAIL BRACE, STOP 132-RE
73516-F	VERTICAL SWITCH RODS AND CLIPS, 26'-0" SWITCH
73517-E	SWITCH AND GAGE PLATES, 26'0" SWITCH
73518-F	VERTICAL SWITCH RODS, 16'-6" SWITCH
73519-D	SWITCH AND GAGE PLATES, 16'-6" SWITCH
73602-D	HEEL BLOCK, ADJUSTABLE RAIL BRACE, STOP 119-RE
73700-E SH. 1	ELECTRIC SWITCH HEATERS
74160-E	NO. 8 RBM FROG
74161-E	NO. 10 RBM FROG
74162-E	NO. 15 RBM FROG
74163-E	NO. 20 RBM FROG
78410-D	WHISTLE SIGN
78700-A	WETLANDS DELINEATION SIGNS (FOR USE ONLY IN MASSACHUSETTS)



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**FROM:** *J. R. Clark*  
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**SUBJECT:** Conrail Standard Maintenance of Way Plans  
Standard Plan Check List, August, 1988

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The plans listed comprise a complete MofW Standard Plan Book. Original plans carry the letter suffix "A". Revisions are indicated alphabetically by letter suffix. Date of each revision is noted in the upper left hand corner of the plan.

Attached to the check list are the Revised Remark Sheets which describe by note the revisions made to date on each plant.

The check list should be used to ensure that you have a complete and up-to-date standard plan book. Check list and remarks should be inserted in the standard plan book.

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MW PLANS

REMARKS

- Note 1 - Rev. B, 11-79  
Reference 2 revised from "on one side only" to read "on one side of such tracks only".
- Rev. C, 5-86 Thru bridge dimensions changed to AREA recommendations 3rd rail and trolley wires removed.
- Rev. D, 3-87 Date of AREA page 28-3-25 changed to 1986.
- Note 2 - Rev. B, 4-79  
Install bolts with heads in alternate position. Section of Allegheny Drop Forge Co. added. "Manufactured by Portec" deleted from title block. Huck fastener approved in lieu of A490 bolt in Allegheny Drop Forge Joint.
- Rev. C, 8-79  
Insulated "D" Bar changed to Bonded Joint Bar. "When spiking joint place head in reverse position" taken from beneath both section views and made Note 5.
- Rev. D, 9-81  
5½" bolt length added. 2¼" thread length added.
- Rev. E, 2-84  
Added Note 1
- Note 3 - Bolt hole spacing of 6" on end of rail drilling corrected to 7".
- Note 4 - 7/8" x 5½" bolt changed to 7/8" x 5" with Account and Reference No. changed to 01-226347. Dimension "L" extended to under side of bolt head.
- Rev. C, 8-84  
Added Conrail MW Spec. Numbers
- Rev. D, 9-86  
Add Spring Washer Spec. and "free" fit. "P" dimension changed to 5/16".
- Note 5 - Rev. B, 10-80  
Dimension "L" on Elliptical Neck extended to underside of bolt head.
- Rev. C, 10-82  
Notes 1 and 2 Revised.
- Rev. D, 9-85  
Note 1 added.

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Rev. E, 9-86  
Add Conrail MW Spec Numbers and "free" fit.

Note 6 - Rev. B, 3-78  
Notes 1-2-3 added. Dimension for 119 and 132 removed from bottom of Section A-A.

Rev. C, 1-83  
1" x 4 $\frac{1}{2}$ " bolt changed to 1" x 4 1/8"

Note 7 - Rev. B, 4-78  
Title block changed to indicate for 132RE rail.

Rev. C, 3-79  
Bearing area on tie changed from 114.3 sq. in. to 110.17 sq. in.

Rev. D, 8-84  
Added Conrail MW Spec Numbers.

Note 8 - 132RE added to title block and elsewhere.

Note 9 - Notes were rearranged and closure length dimensions added. 119RE added to title block. Sheet 2, which showed offsets for 119RE housed switch was deleted, housed switches no longer used. On 73010-B to C revision Point of Switch to P.C. dimension changed from 19'-6-15/15" to 19'-7".

Note 10 - Radius designation changed from outer rail to center line of track Note 2 revised.

Note 11 - Rev. B, 3-80  
Inside radius, tangent distance and offsets changed.

Rev. C, 5-80  
Note 2 revised to indicate fully heat treated rail.

Rev. D, 5-81  
Note 2 revised to include 119 lb. rail. Note 4 revised.

Rev. E, 6-83  
Note 5 revised. Distances ahead of point revised.

Note 12 - Rev. B, 2-81  
Note 6 added indicating fully heat treated stock and switch rail.

Rev. C, 5-81  
119 lb. rail added to Note 6.

Note 13 - Rev. B, 2-81

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Note added indicating fully heat treated 132 lb. stock and switch rail. Note added indicating switch to be used only in Lap Turnout.

Rev. C, 5-81  
119 lb. rail added to Note 7.

Rev. D, 2-88  
Revised first line in Bill of Material.

Note 14 - Rev. B, 3-79  
Offsets for curved portion of stock rail removed and notes giving offset, rail and tie layout plan numbers put in same location. Tie spacing revised.

73167-A and 73189-A were the same, except one was for 140RE and the other for 132RE. They were combined into 73167-B and 73189-A was then designed to a #10 crossover plan, issued 9-10-79.

Rev. C, 5-80  
Note added indicating stock and switch rails to be fully heat treated. 15' headblock tie eliminated.

Rev. D, 7-81  
Tie spacing corrected.

Rev. E, 11-83  
Distances ahead of point revised.

Rev. F, 2-84  
140RE added to Note 2. Spring Washer identified.

Rev. G, 5-86  
Note 2 - All rails fully heat treated.

Note 15 - Rev. B, 2-79  
Offsets for curved portion of stock rail removed and notes giving offset, rail and tie layout plan numbers put in same location. Tie spacing revised.

Rev. C, 7-81  
Tie spacing corrected.

Note 16 - Rev. B, 3-79  
132RE added to title block. 60' stock rails replaced 39' stock rails. Added drilling for 132RE rail.

Rev. C, 8-79  
In Bill of Material last item changed to read 4 altered standard tie plates instead of 4 ft. plates.

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Rev. D, 5-80

Note 2 changed to indicate stock and switch rails to be fully heat treated. 15' Headblock Tie eliminated.

73178-A and 73190-B were the same except one was for 140RE and the other for 132RE. They were combined into 73178-B and 73190-A was assigned to a #15 crossover plan, issued 9-10-79.

Note 16 - Rev. E, 11-83

Distances ahead of point revised.

Rev. F, 2-84

140RE added to Note 2. Spring Washer identified.

Rev. G, 5-86

Note 2 - All rails fully heat treated. Switch offsets 73182-( )

Note 17 - Rev. B, 8-79

Note added to leave 2 front holes on switch rail open in shipment for use by Conrail C&S Department.

Rev. C, 5-80

Note 2 changed to indicate stock and switch rail to be fully heat treated. 15' headblock tie eliminated. Plan 73179-A and 73191-B were the same except one was for 140RE and the other for 132RE. They were combined into Plan 73179-A and 73191-B was changed to 73191-A and assigned to #20 crossover plan issued 9-10-79.

Rev. D, 11-83

Distances ahead of point revised.

Rev. E, 2-84

140-RE added to Note 2.  
Spring Washer identified.

Rev. F, 5-86

Note 2 - All rails fully heat treated. Switch offsets 73183-( ).

Note 18 - Rev. B, 3-79

On Plan 73180-A for No. 8 T.O. radius behind floating heel block changed from 460.3717' to 443.81'.  
On Plan 73181-A for No. 10 T.O. radius behind floating heel block changed from 722.80' to 704.611'.

Rev. C, 1-80

Added 3rd switch rod. Distance of vertical bend from heel of switch rail changed to 2'-3½" from end of rail.

Rev. D, 5-80

Note 8 changed to indicate stock and switch rails to be

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fully heat treated. Words "straight" and "curved" deleted from 27' RH or LH Switch Rail. Side planing added. On Plan 73180 the dimension 2'-10-3/8" tangent from floating heel block to the P.C. changed to 2'-10 1/2".

Note 18 - Rev. E, 12-81  
Note 11 added 140RE removed.

Rev. F, 6-83  
Stock Rail Distances ahead of point changed to 5'-0" and 10'-0". Max. and min. removed.

Rev. G, 9-85  
Note 12 added.

Rev. H, 5-86 Notes - All rails fully heat treated. Added switch offsets on Plan 73181-( ). Reference Note on Plan 73180-( ). Additional dimensions added to heel block on Plan 73180-( ).

Rev. I, 12-87  
Tie spacing beyond heel revised.

Note 19 - Rev. B, 5-80  
Note 8 changed to indicate stock and switch rails to be fully heat treated. Side planing added.

Rev. C, 12-81  
Note 11 added 140RE removed.

Rev. D, 6-83  
Stock Rail Distances ahead of point changed to 5'-0" and 10'-0". Max. and Min. removed.

Rev. E, 9-85  
Note 12 added.

Rev. F, 5-86  
Note all rails fully heat treated. Added switch offsets.

Note 20 - Rev. B, 8-78  
Note 11 added. Notes under legend changed concerning rails to be furnished by manufacturer.

Rev. C, 1-80  
Number of FT plates required corrected.

Rev. D, 5-80  
Note 1 changed to indicate stock and switch rails to be fully heat treated and all other rails end hardened.

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Rev. E, 12-81  
Note 12 added. "Sheet 1 of 2" added to title block.  
140RE removed.

Note 20 - Rev. F, 6-83  
Stock Rail Distances ahead of point changed to 5'-0"  
and 10'-0". Added bonded insulated joints. Revised  
insulated joint stagger.

Rev. G, 2-84  
"Glued Joint" changed to "Bonded".

Rev. H, 5-86  
Note 1 - All rails fully heat treated.

Rev. I, 12-87  
Note 1 revised to include beveling. Spacing at heel  
revised.

Note 21 - Rev. B, 8-78  
Radius corrected on Plan 73185. Note 11 added. Notes  
under legend changed concerning rails to be furnished  
by manufacturer.

Rev. C, 5-80  
Note 1 changed to indicate stock and switch rails to be  
fully heat treated and all other rails to be end hardened.

Rev. D, 12-81  
Note 12 added. 140RE removed.

Rev. E, 6-83  
Stock rail distances ahead of point changed to 5'-0"  
and 10'0". Added bonded insulated joints. Revised  
insulated joint stagger.

Rev. F, 2-84  
Note 11 removed.

Rev. G, 5-86  
Note 1 - All rails fully heat treated.

Note 22 - This number 73188-A was for a 16'-6" switch for No. 8  
or No. 10 T.O., housed for 132RE. Housed switches no  
longer used. Number reassigned to a No. 8 crossover tie  
layout. Issued on 9-10-79.

Note 23 - This number 73189-A was for a 16'-6" switch for No. 8 or  
No. 10 T.O., undercut, for 132RE. Plan 73167-A was same  
except for 140RE. On 4-6-79 Plan 73167-A was revised to  
73167-B to include the 132RE. Number 73189-A was re-  
assigned to a No. 10 crossover tie layout and issued on



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9-10-79.

Note 24 - This number 73190-A was for a 26'-0" switch for No. 15 T.O., undercut, for 132RE Plan 73178-A was same except for 140RE. On 4-6-79 Plan 73178-A was revised to 73178-B to include the 132RE. Number 73190-A was reassigned to a No. 15 crossover tie layout and issued on 9-10-79.

Note 25 - This number 73191-A was for a 39'-0" switch for No. 20 T.O., undercut, for 132RE. Plan 73179-A was same except for 140RE. On 4-6-79 Plan 73179-A was revised to 73179-B to include the 132RE. Number 73191-A was re-assigned to No. 20 crossover tie layout and issued on 9-10-79.

Note 26 - Rev. B, 10-79.

Note added that insulated joints must be ordered separately. Conrail Plan number 73189-( ) in first line of "Material included in Panel T.O., Panel Switch or Packaged Switch" changed to 73167-( ) on Plan 73193-A.

Rev. C, 5-80.

Note 5 changed to indicate stock and switch rails to be fully heat treated and all other rails to be end hardened.

Rev. D, 9-83.

FTH 23 Mod. changed to FT 23 Mod. Plan number and reference number added for abrasion plate. Plan rearranged reference numbers for turnouts revised.

Rev.E, 5-86

Note 5 - All rails fully heat treated.

Note 27 - Rev. B, 10-79.

Note added that insulated joints must be ordered separately. Conrail Plan number 73190-( ) in first line of "Material included in Panel or Packaged Switch" changed to 73178-( ).

Rev. C, 5-80

Note 5 added to indicate stock and switch rails to be fully heat treated; all other rails to be end hardened.

Rev. D, 9-83

Reference Numbers for turnouts revised. Plan rearranged.

Rev. E, 5-86.

Note 5 - All rails fully heat treated.

Note 28 - Rev. B, 10-79.

Conrail Plan number 73191-( ) in first line of "Material Included in Panel or Packaged Switch" changed to 73179-( ).

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Rev. C, 5-80

Note 5 changed to indicate stock and switch rails to be fully heat treated and all other rails to be end hardened. Reference number for 0-G Plate changed to same as for 26'-0" Switch 01-504024.

Note 28 - Rev. D, 9-83.

Reference numbers for turnouts revised. Plan rearranged.

Rev. E, 5-86.

Note 5 - All rails fully heat treated.

Note 29 - Rev. B, 10-79.

On Plan 73196-A Radius changed from 443.6801, to 443.808'.  
On Plan 73197-A Radius changed from 704.5501 to 704.611'.

Rev. C, 7-81.

Note 5 revised to indicate heat treating of stock and switch rails.

Note 30 - Rev. B, 7-79

Plates 3H-4H and 5H eliminated. Replaced with SH Plates (under heel of switch). Note 2 changed to indicate this change.

Rev. C, - 12-81.

Cone neck drive spike note added. Rail and plate holding spike holes reversed on heel plate. Plate marking note added.

Note 31 - Rev. B, 1-78.

Title block changed to include 132RE rail.

Rev. C, 3-80.

OG-1G and 2G Plate dimensions (gage to gage and center to gage) added and revised. Same OG Plate can be used on either 26' or 39' switch.

Rev. D, 12-81.

Cone neck drive spike note added. Rail and plate holding spike holes reversed on heel plates. 140RE removed.

Rev. E, 12-87.

Change hole diameter to 13/16".

Note 32 - Rev. B, 1-78.

Title block changed to include 132RE rail.

Rev. C, 3-80.

Note 4 added. Serration length changed from 7" to 8".  
Mounting hole in clip changed from 1-1/16" dia. to 1-7/16" dia. 3-5/8" dimension on clip changed to 3-1/4".

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Rev. D, 10-83.

Rod dimensions revised to conform to Beth.Steel Co.

Rev. E, 5-86.

3 1/8" dimension added to rocker clip.

Rev. F, 9-87.

"Castellated" added to rod bolts.

Note 33 - Rev. B, 1-78.

132RE added to title block.

Rev. C, 8-78

Heel block dimensions added. Length of shoulder bolt changed from 13-1/2" to 13-3/4".

Rev. D, 5-80

Shoulder bolt changed from 13-3/4" to 13 1/2".

Rev. E, 12-81

Cone neck drive spike note added. Dia. of round holes added.

Rev. F, 2-84.

Dimensions for 11'0" heel block added.

Rev. G, 1-85

Brace altered to provide clearance for snow melter.

Rev. H, 12-87.

Change hole diameter to 13/16".

Note 34 - 132RE added to title block. "X" dimension for drilling rods for 132RE added to table.

Note 35 - Rev. B, 5-80

Cotter pin hole changed 5/16" dia.

Rev. C, 12-81.

Cone neck drive spike note added. Dia. of round holes added.

Note 36 - Sheet 1 of 2.

Note added for location of switch stands. Section C-C of target adapter removed. Target adapter changed to target support. Top view of target support on left deleted.

Sheet 2 of 2 "Model 50-B" added under Target Adapter. "For Models 50-A and 50-B" added after Throw Lever.

Note 37 - Note No. 5 added.

Smutco No. 1 changed to Oakite 33.

Proper manufacturer's description of Scotchlite for Targets added.

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- Note 38 - Rev. B, 3-78  
132RE added to title block and to the notes. 132RE drilling added.
- Rev. C, 5-83  
FTH 23 Mod. Plate replaced by FT 23 Mod. and FTH 27 Mod. replaced by FT 27 Mod. and FT 20 Mod. replaced by FT 23 Mod.
- Rev. D, 9-85  
FTH-23 plate changed to FT-23 Mod.
- Note 39 - Rev. B, 6-78.  
Note 4 revised. Frog plate requirements revised.
- Rev. C, 1-82.  
Note 1 added.
- Note 40 - Reference to groove in filler block as an alternate at Section G-G deleted.
- Note 41 - Rev. B, 6-78.  
On Plan 74160-A Section J-J revised to indicate depth of groove for bonding.
- Rev. C, 10-80.  
Note 6 added indicating casting to be Explosive Depth Hardened. Quantity FT-23 plates changed from 4 to 6 and FT-27 changed from 12 to 10.
- Rev. D, 5-86.  
Heat treat wing and heel rails - Note 6.
- Rev. E, 12-86.  
Added chamfer note.
- Note 42 - Rev. B, 6-78.  
Reference to groove in filler block as an alternate in Section G-G (Plan 74162-A) and Section J-J (Plan 74163-A) deleted.
- Rev. C, 10-80.  
Note 6 added indicating casting to be Explosive Depth hardened. Wall thickness changed to 1-1/4" on various sections and vertical rib added to Section F-F (Plan 74162-C) and H-H (Plan 74163-C).
- Rev. D, 5-86.  
Heat treat wing and heel rails - Note 6.
- Rev. E, 12-86.  
Added chamfer note.

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Note 43 - Rev. B, 10-80.

All references to thickness of sign plate changed from 0.125" to 0.081".

Rev. C, 7-82.

6'-0" sign post changed to 4'-0".

Note 44 - Rev. B, 1-80.

Approach speed sign changed from Figure A-1 to A.  
Speed limit sign changed from Figure B-1 to C.  
Resume speed sign changed from Figure C-1 to D.  
Approach Speed Sign Figure D changed to Diverting  
Approach Speed Sign Figure B.

Rev. C, 10-80.

Sign plate thickness changed from 0.125" to 0.081".

Note 45 - Rev. B, 10-80.

Sign plate thickness changed from 0.125" to 0.081".  
Note 5 added. Black Disc and Border added. Bottom  
bolt height changed from 2-11/16" to 1-11/16".

Rev. C, 7-82.

Note 2 revised.

Rev. D, 6-83.

Note 5 revised. Black Disc and Border removed.

Note 46 - Rev. B, 3-79.

Prescribed bolt sizes for each rail section and rail  
drilling added. Page 1 through 7.

Rev. C, 6-79.

Notes and catalog references for prescribed bolts  
added to Page 7.

Rev. D, 9-80.

Bolt size changed from 7/8" x 5-1/2" to 7/8" x 5"  
for following rail sections:

Page 2 - RDG 90# ASCF, NYNH&H 100#, NYC 100# DY

Page 3 - NYC 105# DY, NYNH&H 100#

Page 4 - NYC 115# DY, NYC 127# DY

Page 7 - Catalog reference changed to 01-226347

Note 47 - Rev. B, 7-81.

Note added about special requirements in Indiana and  
Illinois.

Note 48 - Rev. B, 8-81.

Note 3 changed to read: "Lettering to be as shown on  
Plan 78010-( ), for the vertical sign and in the condensed

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form for the horizontal sign".

Note 49 - Rev. B, 8-81.  
140RE removed from title block.

Note 50 - Rev. B, 1-78.  
132RE added to title block.

Rev. C, 10-81.  
Length of adjustable brace slide plates changed  
to 26" 140RE removed.

Rev. D, 12-87.  
Add dimensions for 11' and 13'. Change hole diameter to  
13/16".

Note 51 - Rev. B, 11-81.  
Timber length changed to 8' - 1½". Location of drive spikes  
changed. Header timber removed. Section A-A added and bevel  
note added. End view of Timber C added. Dimensions changed  
on end view of Timber A. Dowel location changed. "Z" dimen-  
sions removed and "H" revised. Part of Note 3 removed.

Rev. C, 8-82.  
Notes 1, 6 and 10 revised. Rail section table revised.  
Location of drive spike holes changed. Bevel note revised.

Rev. D, 2-84.  
Note 9 removed. Ballast note added.  
Table for minimum widths added.

Rev. E, 11-86.  
Regroup sections under Timbers 2 & 4. Add 2" to Section  
A-A.

Note 52 - Rev. B, 7-82.  
Sign mounting note revised.

Rev. C, 3-88. (never published)  
First paragraph under Location revised. Fourth paragraph  
added. Virginia dropped. Maximum added to Ohio.

Rev. D, 5-88.  
Tables labeled A and B. Maximum removed from Ohio.

Note 53 - Rev. B, 7-82.  
1st note revised. Account & reference numbers added.  
Additional lengths added.

Note 54 - Rev. B, 1-83.  
Reference No. 4A revised. 2" dimension removed from end  
view of header and Section A-A. Gage dimension added to  
Section X-X.

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- Rev. C, 11-86.  
Regroup Sections under Timbers 2 & 4. Add 2" to Section A-A.
- Note 55 - Rev. B, 10-82.  
Notes 1 and 2 revised.
- Rev. C, 9-85.  
Note 1 added.
- Rev. D, 5-86.  
9" bolt added.
- Rev. E, 9-86.  
Add Conrail MW Spec. Numbers and "free" fit.
- Note 56 - Rev. B, 7-83.  
Note 7 revised  
FTH 23 Mod. Plate replaced with FT 23 Mod.
- Rev. C, 4-87.  
Change Note 13 to all Rail H.T. Remove reference to Switch  
Point Guard.
- Note 57 - Rev. B, 8-83.  
"Panels to be fastened by Lewis Dome Head Drive  
Spikes" added to Plan.
- Rev. C, 2-84.  
Tie pad note added.
- Note 58 - Rev. B, 9-83.  
Account and reference numbers revised. Frogs and Frog  
Tie Plates included under material furnished by  
manufacturer.
- Rev. C, 6-84.  
Bonded Ins. Jt. note added for 15 & 20 turnouts.
- Rev. D, 5-86.  
Numbers revised in Notes 4, 5 & 6.
- Note 59 - Rev. B, 10-83.  
Switch stand location table revised to agree with  
MW 4. Reference to Bethlehem Steel removed.  
Padlock Pedestal added.  
"A" removed from "22-A" in title.
- Note 60 - Rev. B, 12-83.  
18" Stone ballast changed to "minimum".
- Note 61 - Rev. B, 8-84.  
Added Conrail MW Specs. Numbers.

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Rev. C, 5-87.  
Add chamfer note.

Note 62 - Rev. B, 1-85.  
Length and diameter of Drift Pin revised  
Acc't. and Ref. Nos. added.

Rev. C, 5-86.  
1/2" Dia. dimension added.

Note 63 - Rev. B, 1-85.  
Acc't. and Ref. Nos. added.

Note 64 - Rev. B, 1-85.  
Hot Cutter dimensions revised. Note 7 revised.  
Acc't. and Ref. Nos. added.

Note 65 - Rev. B, 1-85.  
Contour dimensions revised for Drift Pin and  
Hot Cutter.

Note 66 - Rev. B, 8-86.  
Fabrication notes 1 and 5 revised. 3/8" dimension on lock  
bolt changed to 3/4". "Rust Proof Welded Area" note added.

Note 67 - Rev. B, 9-87.  
Reference numbers removed from terminal support and heater  
support. "For Tubular Switch Heater" added.