**Work Order Tracking**

- **Work Order:** 2854280
- **Classification:** MTA \ METRO
- **Asset:** 1246897
- **Alias:** TMW2RP21A
- **Location:** METROMOW
- **Work Location:**
- **Work Type:** PM
- **Status:** APPR
- **Status Date:** 05/09/17 04:58:17 PM
- **Reported By:** MTACRON
- **Reported Date:** 04/03/17 04:15:48 AM
- **On Behalf Of:**
- **Consist:**

---

### Asset Details

<table>
<thead>
<tr>
<th>Year</th>
<th></th>
</tr>
</thead>
</table>

### Costs

- **Total Planned Cost:** 165.78

---

**Attachments**

- **Site:**
- **Failure Class:**
- **Problem Code:**
- **Priority:**
- **Asset/Location Priority:**
- **Is Task:**
- **Parent WO:**
- **Warranty Situation Present:** N
- **Maintenance Alert:**
- **Repair Order:**
- **Has Follow-up Work:**
- **Quick PM:**

---
<table>
<thead>
<tr>
<th>Mainline</th>
<th>1</th>
<th>2</th>
<th>Yard</th>
<th>WO #</th>
<th>2854280</th>
</tr>
</thead>
<tbody>
<tr>
<td>Date:</td>
<td>6-21-17</td>
<td>Inspection Crew</td>
<td>S. Ackley, P. Perkins, R. Nelson, M. Pichin</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

1 Location: RP
2 Switch I.D. #: 19B
3 Facing: X Trailing

**Rail Points**
4 Point to Point: 50 2
5 Point Condition: Y R
6 Point Throw, nothing less than 4 3/4 inches: N R 5 7/16
7 Point Opening: N R 5 7/16
8 Fit: Y R
9 General Condition of the Points: Y R

**Gage**
10 Heel of Switch:
   a) Main: 5 6 3/4
   a) Turnout: 5 6 3/4
11 Gage ahead of Bend: 5 6 3/4
   Must not be less than 56 inches or more than 57 inches for "S"
12 Heel Spread in Inches:
   a) Turnout: 6 4
   a) Main: 6 4

**Stock Rail**
13 Bend: Y R
14 Condition: S R

**Bolts**
15 Loose: N/A
16 Missing: N/A

**Rivets (Huck Bolts)**
17 Loose: N/A
18 Missing: N/A
19 Cotter Pins missing: N/A
20 Jam Nuts Loose: N/A
21 Washers: Broken: N/A

**Switch Rods**
22 Standard Joints: S Y R N/A
23 Switch Plates: S Y R N/A
24 Adjustable Braces: S Y R N/A
25 Non-Adjustable Braces: Y R N/A

**Switch Ends**
26 Front Rod: Y R N/A
27 #1 Rod (Basket Rod): Y R N/A
28 #2 Rod: Y R N/A
29 #3 Rod: Y R N/A
30 #4 Rod: S Y R N/A
31 Closure Rail: Y R N/A
32 Surface of Switch: Y R N/A
33 Using a 62' cord: S= Up to 1" Max allowed Speed
   Y= 1" to 1 1/2" 40 MPH
   R= 1 1/2" to 1 3/4" 12 MPH
   Greater than 1 3/4" = Out of Service
34 Head Block ties: Y R
35 Switch Adjustments: Yes
36 Lubrication: Dry
37 Switch Target / Lamps:
38 Latches: Broken N/A
38 Locks: Broken N/A
39 General Condition: Y R
40 Insulated Joints: Y R

Remarks on Page 3

MWEM Mod. 09-15-08
Mainline | 1  | 2 | Yard | WO # | 2854280
---|---|---|---|---|---
Date: | 6-21-72 | Inspection Crew: | Brockmeier & Perkins, R. Nelson, M. Ch.
1 Location | RP | |
2 Switch I.D. # | 19B | |
3 Facing | X | Trailing |
44 Frog Tread | N | Y R |
| | R | S Y R |
45 Frog # | | |
46 Frog Point Condition | S Y R | |
47 Condition of Frog | S Y R | |
48 Surface of Frog | Y R | |
49 Throat in Inches | 3 1/2 | |
50 Flangeway Depth | 1 1/2 |
Flangeway Depth must not be less than 1 1/2" |

**Gage**
51 Main Track | 56 3/4 |
52 Turnout Track | 56 3/4 |
Gage must not be less than 56" any Class |

**Guard Rails**
53 Guard Rail Gage | N 54 3/4 R 54 1/2 |
Guard Rail Gage must be less than 54 3/8" |
54 Back to Back | N 52 3/4 R 52 1/4 |
Back to Back must be less than 53 1/8" |
54 Condition | Y R |
55 Location of Guard Rail (Relation to Point) | Y R |

**Guard Rail Clamps**
56 Main Track | Y R |
57 Turnout Track | Y R |

Class 1 Gage 56" to 57 1/2"
More than 57 1/2" Out of Service
Class 3 Gage 56" to 57"
More than 57" to 57 1/4" downgrade to
Class 2 and gets a Y

Remarks on page 3

**Turnout Ties**
58 Condition | Y R |
59 Rail Movement | Y R |

**Tie Plates**
60 Lead | Y R |
61 Guard Rail Flangeway | Y R N 2 R 1 3/4 |
Guard Rail Flangeway can not be less 1 1/2" |
62 Guard Rail Plates | Y R |
63 Frog Plates | Y R |

**Bolts**
64 Loose | i |
65 Missing | |

**Rivets (Huck)**
66 Loose | |
67 Missing | |
68 Nuts Missing | |
69 Cotter Pins Missing | |
70 Washers | OK |
Broken | |
Missing | |

**Hold Down Devices**
71 | Y R |

**Spring Housing**
72 | Y R |

**Derails**
73 | |

74 Maximum difference in any 31' in Cross Level on the siding from the Frog Point to 50' beyond last long tie
OK Difference |

75 Condition of Line thru entire turnout | Y R |
Buckles on Closure Rail

All rules comply with the MTA Field Guide for Track Inspections updated April 2006

All rules are class 3 for Mainline track and class 1 for Yard tracks

S All items inspected are in compliance

Y Attention needed

R Immediate attention required or Out of Service

Reviewed by:
Work Order Tracking (Tr)

Work Order: 2654264
Classification: MTA \ METRO
Classification Description: MTA - METRO
Asset: 1246466
Alias: TMW1RP19B
Location: METROMOW
Work Location:
Work Type: PM
Status: APPR
Status Date: 05/09/17 04:58:25 PM
Reported By: MTACRON
Phone:
Reported Date: 04/03/17 04:15:51 AM
On Behalf Of:
Consist:

Asset Details

Costs

Total Planned Cost: 165.78

Attachments
Site:
Failure Class:
Problem Code:
Priority:
Asset/Location Priority:
Is Task?
Parent WO:
Warranty Situation Present: N
Maintenance Alert?
Repair Order?
Has Follow-up Work?
Quick PM?

http://mtassets/maximo/ui/?event=loadapp&value=plustwo&uisessionid=3125&csrftoken=... 5/24/2017
**Switch Inspection Report / Semi-Annual**

<table>
<thead>
<tr>
<th>Mainline</th>
<th>1</th>
<th>2</th>
<th>Yard</th>
<th>WO # 2854284</th>
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</thead>
<tbody>
<tr>
<td>Date:</td>
<td>6-21-17</td>
<td>Inspection Crew</td>
<td>J. Buckmeyer, H. Peters, M. Allen</td>
<td></td>
</tr>
</tbody>
</table>

1. **Location**: RP
2. **Switch I.D. #**: 21
3. **Facing**: X Trailing

### Rail Points

4. **Point to Point**: 5 1/4
5. **Point Condition**: S Y R
6. **Point Throw, nothing less than 4 3/4 inches**: N R
7. **Point Opening**: N R
8. **Fit**: S Y R
9. **General Condition of the Points**: S Y R

### Gage

10. **Heel of Switch**
   a) Main
   b) Turnout
11. **Gage ahead of Bend**: Not specified

### Stock Rail

13. **Bend**: S Y R
14. **Condition**: S Y R

### Bolts

15. **Loose**: N/A
16. **Missing**: N/A

### Rivets (Huck Bolts)

17. **Loose**: N/A
18. **Missing**: N/A
19. **Cotter Pins missing**: N/A
20. **Jam Nuts Loose**: N/A
21. **Washers**: OK Broken Missing

### Switch Rods

26. **Front Rod**: S Y R
27. **#1 Rod (Basket Rod)**: S Y R
28. **#2 Rod**: S Y R
29. **#3 Rod**: S Y R
30. **#4 Rod**: S Y R
31. **Closure Rail**: S Y R
32. **Surface of Switch**: S Y R

### Using a 62’ cord

- **S**: Up to 1" Max allowed Speed
- **Y**: 1" to 1 1/2" 40 MPH
- **R**: 1 1/2" to 1 3/4" 12 MPH

### Head Block ties

33. **Switch Adjustments**: Yes
35. **Lubrication**: Dry
36. **Switch Target / Lamps**: OK Missing N/A
37. **Latches**: OK Broken Missing
38. **Locks**: OK Broken Missing
39. **General Condition**: S Y R
40. **Insulated Joints**: S Y R

### Remarks on Page 3

WWEM Mod. 09-15-08
Frog Inspection Report / Semi-Annual

Mainline 1 2 Yard ____________

Date: 6-21-17 Inspection Crew: _______ _______ _______ _______ _______

<table>
<thead>
<tr>
<th>Location</th>
<th>RP</th>
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</thead>
<tbody>
<tr>
<td>2 Switch I.D. #</td>
<td>21</td>
</tr>
<tr>
<td>3 Facing</td>
<td>X</td>
</tr>
<tr>
<td>44 Frog Tread</td>
<td>N</td>
</tr>
<tr>
<td>R</td>
<td>S Y R</td>
</tr>
<tr>
<td>45 Frog #</td>
<td>8</td>
</tr>
<tr>
<td>46 Frog Point Condition</td>
<td>S Y R</td>
</tr>
<tr>
<td>47 Condition of Frog</td>
<td>S Y R</td>
</tr>
<tr>
<td>48 Surface of Frog</td>
<td>S Y R</td>
</tr>
<tr>
<td>49 Throat in Inches</td>
<td>3 3/8</td>
</tr>
<tr>
<td>50 Flangeway Depth</td>
<td>1 1/2</td>
</tr>
</tbody>
</table>

Flangeway Depth must not be less than 1 1/2"

**Gage**

| 51 Main Track | 56 3/8 |
| 52 Turnout Track | 56 3/8 |

Gage must not be less than 56" any Class

**Guard Rails**

| 53 Guard Rail Gage | N | 54 1/2 |
| 54 Back to Back | N | 52 1/8 |

Guard Rail Gage must be less than 54 3/8

**Turnout Ties**

| 58 Condition | S Y R |
| 59 Rail Movement | S Y R |

**Tie Plates**

| 60 Lead | S Y R |
| 61 Guard Rail Flangeway | S Y R N |

Guard Rail Flangeway can not be less 1 1/2"

| 62 Guard Rail Plates | S Y R |
| 63 Frog Plates | S Y R |

**Bolts**

| 64 Loose | 0 | N/A |
| 65 Missing | 0 | N/A |

**Rivets (Huck)**

| 66 Loose | 0 | N/A |
| 67 Missing | 0 | N/A |
| 68 Nuts Missing | 0 | N/A |
| 69 Cotter Pins Missing | 0 | N/A |
| 70 Washers | OK | Broken | N/A |

| 71 Hold Down Devices | S Y R | N/A |
| 72 Spring Housing | S Y R | N/A |
| 73 Derails | S Y R | N/A |

| 74 Maximum difference in any 31' in Cross Level on the siding from the Frog Point to 50' beyond last long tie | OK | Difference |

| 75 Condition of Line thru entire turnout | S Y R |

Remarks on page 3
1. Right hand straight switch point has no side wear.

2. Insulated joint ahead of right hand curved stock rail is battered and chipped out at the end of the stock rail. Was welded in 2014. But buck bolts are now loose also. Stock rail needs to be replaced and new T J made in field.

3. 18 hold down devices are loose or missing in frog area.

All rules comply with the MTA Field Guide for Track Inspections updated April 2006

All rules are class 3 for Mainline track and class 1 for Yard tracks

S  All items inspected are in compliance

Y  Attention needed

R  Immediate attention required or Out of Service

Reviewed by:
Work Order Tracking (Tr)

Work Order: 2854262
Classification: MTA \ METRO
Classification Description: MTA - METRO
Asset: 1246800
Alias: TMW2RP17A
Location: METROMOW
Work Location: Maintenance of Ways
Work Type: PM
Status: APPR
Status Date: 05/09/17 04:58:07 PM
Reported By: MTACRON
Phone:
Reported Date: 04/03/17 04:15:21 AM
On Behalf Of:
Consist:

Asset Details

Costs

Total Planned Cost: 165.78

Attachments

Site:
Failure Class:
Problem Code:
Priority:
Asset/Location Priority:
Is Task?
Parent WO:
Warranty Situation Present:
Maintenance Alert?
Repair Order?
Has Follow-up Work?
Quick PM?

http://mtassets/maximo/ui/?event=loadapp&value=plustwo&uisessionid=3125&csrftoken=...  5/24/2017
Mainline: 2
Location: Reistertown Plaza East
Switch I.D. #: RP-17A
Facing: Trailing

Inspection Crew: [Signature]

WO#: 2854262

1 Location
2 Switch I.D. #
3 Facing

Rail Points
4 Point to Point
5 Point Condition: Y R
6 Point Throw, nothing less than 4 3/4 inches
7 Point Opening
8 Fit: Y R
9 General Condition of the Points: Y R

Gage
10 Heel of Switch
11 Gage ahead of Bend

Stock Rail
13 Bend: Y R
14 Condition: Y R

Bolts
15 Loose: N/A
16 Missing: N/A

Rivets (Huck Bolts)
17 Loose: N/A
18 Missing: N/A
19 Cotter Pins missing: N/A
20 Jam Nuts Loose: N/A
21 Washers: OK

Remarks on Page 3

[Signature] WEM Mod. 09-15-08
Frog Inspection Report / Semi Annual

Date: 6-27-17  Inspection Crew: [Signature]

41 Location: Reistertown Plaza East
42 Switch I.D. #: RP-17A
43 Facing: Trailing
44 Frog Tread: N R S O R
45 Frog #: [Number]
46 Frog Point Condition: S O R
47 Condition of Frog: S Y R
48 Surface of Frog: S Y R

49 Throat in Inches: 3 1/2
50 Flangeway Depth: 7
Flangeway Depth must not be less than 1 1/2"

Gage
51 Main Track: 
52 Turnout Track: 
Gage must not be less than 56" any Class

Guard Rails
53 Guard Rail Gage: N R 4 1/2 R 54 1/2
Guard Rail Gage must be less than 54 3/8"
54 Back to Back: N 2 1/4 R 5 1/4
Back to Back must be less than 53 1/8"

54 Condition: S Y R
55 Location of Guard Rail (Relation to Point): S Y R

Guard Rail Clamps
56 Main Track: S Y R
57 Turnout Track: S Y R

Class 1 Gage 56" to 57 1/2"
More than 57 1/2" Out of Service
Class 3 Gage 56" to 57"
More than 57" to 57 1/4" downgrade to
Class 2 and gets a Y

Remarks on page 3

Turnout Ties
58 Condition: S Y R
59 Rail Movement: S Y R

60 Lead
61 Guard Rail Flangeway: S Y R N 1 15 1/2
Guard Rail Flangeway can be less than 1-1/2"
62 Guard Rail Plates: S Y R
63 Frog Plates: S Y R

Bolts
64 Loose: O N/A
65 Missing: O N/A

Rivets (Huck)
66 Loose: O N/A
67 Missing: O N/A
68 Nuts Missing: O N/A
69 Cotter Pins Missing: N/A
70 Washers OK Broken: Missing

71 Hold Down Devices: S Y R N/A
72 Spring Housing: S Y R N/A
73 Derails: S Y R N/A

74 Maximum difference in any 31' in Cross
Level on the siding from the Frog Point to
50' beyond last long tie
Difference: [Measurement]

75 Condition of Line thru entire turnout: S Y R
Striped shoulder bolt south heel block

All rules comply with the MTA Field Guide for Track Inspections updated April 2006

All rules are class 3 for Mainline track and class 1 for Yard tracks

S  All items inspected are in compliance

Y  Attention needed

R  Immediate attention required or Out of Service

Reviewed by: [Signature]