### Table of Dimensions

<table>
<thead>
<tr>
<th>RAIL SECTION</th>
<th>ASSEMBLY DRAWING</th>
<th>A (m)</th>
<th>B (m)</th>
<th>C (m)</th>
<th>D (m)</th>
<th>E (m)</th>
<th>F (m)</th>
<th>G (m)</th>
<th>H (m)</th>
<th>J (m)</th>
<th>K (m)</th>
<th>L (m)</th>
<th>M (m)</th>
<th>N (m)</th>
<th>O (m)</th>
<th>P (m)</th>
<th>Q (m)</th>
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<tr>
<td>75 ft.</td>
<td>75-2900</td>
<td>2720</td>
<td>2765</td>
<td>1000</td>
<td>900</td>
<td>900</td>
<td>700</td>
<td>900</td>
<td>630</td>
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<td>.900</td>
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<td>840</td>
<td>1005</td>
<td>635</td>
<td>1255</td>
<td>295</td>
<td>651</td>
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<td>62</td>
<td>58</td>
<td>22</td>
<td>41.5</td>
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NOTE:

The difference of 6 mm in the relative level of the tables of stock and tongue rails is run out gradually as indicated in the sections.

SECTION ON V.V.

SECTION ON Y.Y.

SECTION ON X.X. (AT HEEL)

SECTION ON Z.Z. (AT TOE)

TABLE OF DIMENSIONS

<table>
<thead>
<tr>
<th>RAIL SECTION</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>F</th>
<th>G</th>
<th>H</th>
<th>J</th>
<th>K</th>
<th>L</th>
<th>M</th>
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<th>O</th>
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<td>62</td>
<td>58</td>
<td>22</td>
<td>41-5</td>
<td>53-5</td>
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TYPICAL CURVED SWITCH B.G.
(For 1 in 8½ turnout)

Switch angle at toe = 0°35'0"
Divergence at heel = 182.5
Throw at toe = 115
Actual length of switch = 71.35
Surface to be machined shown thus -
NOTE: THE DIFFERENCE OF 6 mm IN THE RELATIVE LEVEL OF THE TABLES OF STOCK & TONGUE RAILS IS ROUNDED OFF GRADUALLY AS INDICATED IN THE SECTIONS.

SECTION ON V.V.

SECTION ON Y.Y.

SECTION ON X.X., (AT HEEL)

SECTION ON Z.Z., (AT TOE)

TABLE OF DIMENSIONS

<table>
<thead>
<tr>
<th>RAIL ASSEMBLY</th>
<th>DRAWING</th>
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<th>B</th>
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<th>G</th>
<th>H</th>
<th>J</th>
<th>K</th>
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<td>UIC 60k</td>
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<td>3500</td>
<td>1150</td>
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<td>550</td>
<td>752</td>
<td>1716</td>
<td>2200</td>
<td>1105</td>
<td>1145</td>
<td>1065</td>
<td>7625</td>
<td>6225</td>
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</table>
TYPICAL CURVED SWITCH B. G.

(FOR 1 IN 8½ TURNOUTS)

END OF UNDER-CUT OF FOOT OF TONGUE RAIL.
PLANING OF FOOT OF TONGUE RAIL ENDS.

BEND IN TONGUE & JUNCTION OF RAIL HEADS.

TOE.
THEO. TOE.

1820 TONGUE RAIL

A
B

1520
1070
350

7820 TONGUE RAIL

C
D
E
F
G
H

1600
635
635

1500

7000 STOCK RAIL

FIXED HEEL.

11000 STOCK RAIL

3100

J

K

M.S. FLAT BEARING PLATES.
DISTANCE BLOCK.
NOTCHED BEARING PLATES.

STOCK RAIL.

HEEL BLOCK.

M.S. SWITCH STOP.

STOCK RAIL.

M.S. PRESSED-UP LUG SLIDE CHAIRS.

EXTRA WIDE SLEEPER.

M.S. TIE PLATE.

SWITCH ANGLE AT TOE 0° 47' 21"
DIVERSION AT HEEL 182.5
THROW AT TOE 115
THD.-LENGTH OF SWITCH 6835
ACTUAL LENGTH OF SWITCH 6400
SURFACE TO BE MACHINED SHOWN THUS.

ENLARGED PLAN OF R. H. HEEL.
SECTION ON V. V.

SECTION ON X. X. (AT HEEL)

SECTION ON Y. Y.

SECTION ON Z. Z. (AT TOE)

TABLE OF DIMENSIONS

<table>
<thead>
<tr>
<th>RAIL</th>
<th>ASSEMBLY DRAWING NO.</th>
<th>A (mm)</th>
<th>B (mm)</th>
<th>C (mm)</th>
<th>D (mm)</th>
<th>E (mm)</th>
<th>F (mm)</th>
<th>G (mm)</th>
<th>H (mm)</th>
<th>J (mm)</th>
<th>K (mm)</th>
<th>L (mm)</th>
<th>M (mm)</th>
<th>N (mm)</th>
<th>O (mm)</th>
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<tbody>
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<td>74 20187</td>
<td>3395</td>
<td>3095</td>
<td>700</td>
<td>1175</td>
<td>1170</td>
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<td>1500</td>
<td>115.5</td>
<td>119.5</td>
<td>11.5</td>
<td>25</td>
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<td>73</td>
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<tr>
<td>90</td>
<td>74 20149</td>
<td>3408</td>
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<td>1147</td>
<td>773</td>
<td>115.8</td>
<td>120.2</td>
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<td>60</td>
<td>66</td>
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</table>
SECTION ON V. V.

SECTION ON Y. Y.

SECTION ON X. X. (AT HEEL)

SECTION ON Z. Z. (AT TOE)

TABLE OF DIMENSIONS

<table>
<thead>
<tr>
<th>RAIL SECTION</th>
<th>ASSEMBLY DRAWING NO.</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
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<td>115.8</td>
<td>120.2</td>
<td>111.2</td>
<td>25</td>
<td>60</td>
<td>66</td>
</tr>
</tbody>
</table>
TYPICAL CURVED SWITCH M.G.

FOR 1 IN 8 1/2 TURNOUTS

NOTE:-
BEARING PLATES MARKED THIS — & © ARE SIX HOLED
AND COMBINED BEARING PLATES RESPECTIVELY FOR TA 20 496.

END OF UNDER CUT OF FOOT OF TONGUE RAIL.
PLANING OF FOOT OF TONGUE RAIL ENDS.
BEND IN TONGUE & JUNCTION OF RAIL HEADS.
10' 000 STOCK RAIL.

8' 500 TONGUE RAIL.
3' 000.

A D E G
B C H

F 12' 000 RADIUS
R

5' 500 SWITCH.

9' 250 FOR TA 20 496.

T.W.N.

M.S. TIE PLATE.
M.S. FLAT BEARING PLATE.

EXTRA WIDE SLEEPER.

NORMAL FOR TA 20 498.

M.S. FLAT BEARING PLATES.
NOTCHED BEARING PLATES.
HEEL BLOCK.

DISTANCE BLOCK.

STOCK RAIL.
TONGUE RAIL.

END TO BE WREN AT SITE.

SWITCH ANGLE AT TOE
0° 29' 14"

DIVERGENCE AT HEEL
16° 16'

THROW AT TOE
10°

TIED LENGTH OF SWITCH
6 2006

ACTUAL LENGTH OF SWITCH
5 500

SLEEPLERS TO BE MACHINED SHOWN THIS... 5"
TYPICAL CURVED SWITCH M.G. WITH STEEL SLEEPERS

(FOR 1 IN 8½ TURNOUTS)

END OF UNDER-CUT OF FOOT OF TONGUE RAIL
PLANNING OF FOOT OF TONGUE RAIL ENDS
BEND IN TONGUE AND JUNCTION OF RAIL HEADS
TOE
TENDED TOE

10 LUG STOCK RAIL
3,000
600
8500 TONGUE RAIL
1500
705
8,500

BEND TO BE RUN IN SITE

NOTE:

1. Extra distance blocks for TA21026 only. Position and number of sleepers changed for TA21026.

SWITCH ANGLE AT TOE 0°-28°-16°
DIVERGENCE AT HEEL 169
THROW AT TOE 100
THEO. LENGTH OF SWITCH 6.206
ACTUAL LENGTH OF SWITCH 5.500
SURFACE TO BE MACHINED SHOWN thus - - -
### TABLE OF DIMENSIONS

<table>
<thead>
<tr>
<th>RAIL SECTION</th>
<th>ASSEMBLY</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
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<th>K1</th>
<th>L</th>
<th>M</th>
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<td>25</td>
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<td>26</td>
<td>65</td>
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<tr>
<td>75 ft</td>
<td>T9 2020</td>
<td>25</td>
<td>34</td>
<td>26</td>
<td>65</td>
<td>34</td>
<td>34</td>
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</table>
NOTE: THE DIFFERENCE OF 6mm IN THE RELATIVE LEVEL OF THE TABLES OF STOCK & TONGUE RAILS IS RUN OUT GRADUALLY AS INDICATED IN THE SECTIONS.

SECTION ON V.V.

SECTION ON Y.Y.

SECTION ON X.X. (AT HEEL)

SECTION ON Z.Z. (AT TOE)

TABLE OF DIMENSIONS

<table>
<thead>
<tr>
<th>RAIL SECTION</th>
<th>ASSEMBLY DRAWING</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
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<th>G</th>
<th>H</th>
<th>J</th>
<th>K</th>
<th>L</th>
<th>M</th>
<th>N</th>
<th>O</th>
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<td>100</td>
<td>76.25</td>
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### TABLE OF DIMENSIONS

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<td>63.5</td>
<td>25</td>
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</tbody>
</table>
SECTION ON V. V.

SECTION ON Y. Y.

SECTION ON X. X. (AT HEEL)

SECTION ON Z. Z. (AT TOE)

NOTE: THE DIFFERENCE OF 6 mm IN THE RELATIVE LEVEL OF THE TABLES OF STOCK & TONGUE RAILS IS RUN OUT GRADUALLY AS INDICATED IN THE SECTIONS.

TABLE OF DIMENSIONS

<table>
<thead>
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<th>RAIL SECTION</th>
<th>ASSEMBLY DRAWING</th>
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<td>715 1 612</td>
<td>730</td>
<td>877</td>
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<td>1 800 384</td>
<td>180</td>
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</tr>
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<td>66 68.5 63.5</td>
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### Table of Dimensions

<table>
<thead>
<tr>
<th>Rail Assembly</th>
<th>A</th>
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<th>C</th>
<th>D</th>
<th>E</th>
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<td>67.7</td>
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<td>69</td>
<td>66</td>
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</tbody>
</table>
TYPICAL CURVED SWITCH B. G. WITH STEEL SLEEPERS.

NOTE: OPERATION OF SWITCH AT TWO PLACES i.e.
LEADING AND 3\(\frac{3}{8}\) FOLLOWING STRETCHER BARS.

FOR 1 IN 16 TURNOUTS

END OF UNDER CUT OF FOOT OF TONGUE RAIL
FISHPLATES & FISHBOLTS.

PLAMING OF FOOT OF TONGUE RAIL ENDS
BEND IN TONGUE & JUNCTION OF RAIL HEADS.
12000 STOCK RAIL
11000 TONGUE RAIL

B

A

J

K

L

N

O

C

D

E

G

M

F

H

I

P

ENLARGED PLAN OF R.H. HEEL

SWITCH ANGLE AT TOE 0-24-27/16 IN

DIVERGENCE AT HEEL 133

THROW AT TOE 115

THEO-Length of Switch 10594

ACTUAL LENGTH OF SWITCH 3750

SURFACE TO BE MACHINED SHOWN thus \(\text{'$'}\)

STOCK RAIL

TONGUE RAIL

HEEL BLOCK

REINFORCING STRAP LEFT

REINFORCING STRAP RIGHT

1/4" FOLLOWING STR BAR

3/8" FOLLOWING STR BAR

M.S. PRESSED-UP LUG SLIDE CHAIRS

DISTANCE BLOCKS

SLIDE BLOCKS

HEEL BLOCK

BOLTS

P

\(\alpha\)
SECTION ON V. V.
(At Heel)

SECTION ON Y. Y.

SECTION ON X. X.
(At Heel)

SECTION ON Z. Z.
(At Toe)

TABLE OF DIMENSIONS

<table>
<thead>
<tr>
<th>RAIL SECTION</th>
<th>ASSEMBLY DRAWING NO.</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>F</th>
<th>G</th>
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<th>L</th>
<th>M</th>
<th>N</th>
<th>O</th>
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<tbody>
<tr>
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</tbody>
</table>

Note: The difference of 6 mm in the relative level of the tracks of stock & tongue rails is run out gradually as indicated in the sections.
NOTE: THE DIFFERENCE OF 6 mm IN THE RELATIVE LEVEL OF THE TABLES OF STOCK & TONGUE RAILS IS RUN OUT GRADUALLY AS INDICATED IN THE SECTIONS.

SECTION ON V. V.

SECTION ON Y. Y.

SECTION ON X. X. (AT HEEL)

SECTION ON Z. Z. (AT TOE)

TABLE OF DIMENSIONS

| RAIL SECTION | ASSEMBLY DRAWING | A  | B  | C  | D  | E  | F  | G  | H  | J  | K  | L  | M  | N  | O  | P  | Q  |
|--------------|------------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| 75 ft.      | TA 20465         | 2202 | 4498 | 780 | 887 | 630 | 685 | 228 | 772 | 55.1 | 56.2 | 52.2 | 54 | 25 | 60 | 2350 | 1550 |
| 60 ft.      | TA 20467         | 2437 | 4263 | 780 | 887 | 630 | 920 | 206 | 627 | 55.6 | 63 | 57 | 41.5 | 22 | 53.5 | 2300 | 990 |
TYPICAL PARTLY CURVED SWITCH M.G. WITH STEEL SLEEPERS

(For 11N 12 Turnouts)

End of Under-cut of Foot of Tongue Rail

Fixed Heel

Planning of Foot of Tongue Rail Ends

Bend in Tongue and Junction of Rail Heads

1000 Stock Rail

9500 Tongue Rail

720 Partly Curved Switch

1000 Stock Rail

256900 Radius

Divergence at Heel

Clearance

Distance Blocks

Heel Block

Slide Blocks

280 Following Strt Bar

Reinforcing Strap L.H

Reinforcing Strap R.H

M.S. Pressed Up Lug Slide Chairs

Treating Bar

To Be

Leader Bar

Bolts

Tongue Rail

Stock Rail

Heel Block

Enlarged Plan of R.H. Heel

Switch Angle at Toe

Divergence at Heel

Throw at Toe

Theo. Length of Switch

Actual Length of Switch

Surface to be Machined Shown Thus...
TYPICAL PARTLY CURVED SWITCH M.G. WITH STEEL SLEEPERS

NOTE: OPERATION OF SWITCH AT TWO PLACES
I.E. LEADING AND ONE FOLLOWING STRETCHER BARS.

PLANING OF FOOT OF TONGUE RAIL ENDS
END OF UNDER-LUIDE FOOT OF TONGUE RAIL
FIXED HEEL.

BEND IN TONGUE AND JUNCTION OF RAIL HEADS.
10,000 STOCK RAIL
8,500 TONGUE RAIL

TOE.
THEO-TOE.

FISHPLATES
FISHBOLTS
C
D
E
F
G
H
I
J
K
L
M
N
O

DISTANCE BLOCKS
HEEL BLOCK
CLEARANCE

1800
944
380

680
180
880
180
680
250
250
300
250
300

250 RADIUS
250 RADIUS
250 RADIUS
250 RADIUS
250 RADIUS

6700 PARTLY CURVED SWITCH
1ST FOLLOWING STB BAR
REINFORCING STRAP RIGHT
M.S. PRODUCED-UP LUG SLIDE CHAIRS

LEADING STB BAR
REINFORCING STRAP LEFT

SWITCH ANGLE AT TOE .......... 0°-24°-25°
DIVERGENCE AT HEEL ........... 117
THROW AT TOE ............... 100
THEO-LENGTH OF SWITCH .......... 7344
ACTUAL LENGTH OF SWITCH .......... 6700
SUBLACE TO BE MACHINED SHOWN THUS .... f
25 mm DIA: BOLTS FOR POINTS & CROSSINGS

TABLE OF DIMENSIONS.

<table>
<thead>
<tr>
<th>PART NUMBER</th>
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ALTERNATIVE DESIGN OF THE HEAD.
22 mm DIA: BOLTS FOR POINTS & CROSSINGS

**Table of Dimensions**

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**Alternative Design of the Head**
25 mm DIA: TURNED BOLTS
FOR POINTS & CROSSINGS

IN INDIAN STANDARD SCREW THREAD

LENGTH

TABLE OF DIMENSIONS

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22 mm DIA: TURNED BOLTS
FOR POINTS & CROSSINGS

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INDIAN STANDARD SCREW THREAD
22 mm DIA: SPECIAL BOLTS FOR SWITCHES

DETAIL OF SPLIT PIN

4 DIA: SPLIT PIN 50 LONG.

TABLE OF DIMENSIONS

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ALTERNATIVE DESIGN OF THE HEAD
25mm DIA: BOLTS WITH GROOVED NUTS FOR SWITCHES

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22 mm DIA: BOLTS WITH GROOVED NUTS FOR SWITCHES

DETAIL OF SPLIT PIN

TABLE OF DIMENSIONS

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<th>B</th>
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METRIC FISHBOLT NUT

MIDNAN STANDARD SCREW THREAD

SPLIT PIN "A" DIA HOLE IN BOLT

SPLIT PIN "B" LONG.
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<tr>
<th>RAIL SECTION</th>
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<th>PART NUMBER</th>
<th>GAUGE</th>
<th>DIMENSIONS (mm)</th>
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