1. ALL RAILS SHALL HAVE IDENTIFICATION COLOR CODE PAINTED ON HEAD CLEAR OF JOINT AREA
2. RAIL LENGTHS ALLOW 1/8" GAP BETWEEN RAIL JOINTS FOR WELDING
3. GUARD RAILS ARE RATED 17" AND FORM A 1 1/2" FLATNESS
   COORDINATE SWITCH MACHINE AND MACHINE PLATE (WELD) WITH CALTRAIN
5. ALL THE LENGTHS SHALL BECOME TABLED 1 1/8" FROM THE END TO RAIL CENTRELINE, EXCEPT AS NOTED AND 1 1/8" CARRIER TIES
6. TRANSFER THE SPREAD WITH DOUBLE COIL SPRING WASHED IN PLACE
7. SPRING ROLLERS SHALL BE INSTALLED AND ADJUSTED IN THE FIELD

NOTES:

OPEN END JOINTS
WELDED JOINTS

TURNTOUT DATA

POE POE

ACTUAL LEAD 110-3/8"

SPECIAL TRACKWORK
NO 14 TURNOUT
WITH WSM FROG AND HST
SWITCH MACHINE ON MARINE SIDE

PENINSULA CORRIDOR JOINT POWERS BOARD
STANDARD DRAWINGS

DRAWN BY:
CHECKED:
APPROVED:

DATE:
0
08/31/01
SPECIAL TRACKWORK
NO 14 RH TURNOUT WITH WSM FROG AND HST
SWITCH MACHINE ON MARINE SIDE
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<th>DRG NO</th>
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NOTES:
1. SEE DRAWING SD-2015 FOR THE LOCATION DIMENSIONS
2. SWITCH MODELS SHOWN ARE PRELIMINARY TO SUBSEQUENT

SPECIAL TRACKWORK
NO. 14 TURNOUT
LH SWITCH PACK WITH HOLLOW STEEL TIES
SWITCH MACHINE ON MAINLINE SIDE

PENINSULA CORRIDOR JOINT POWERS BOARD
STANDARD DRAWINGS

SPECIAL TRACKWORK
NO. 14 TURNOUT
LH SWITCH PACK WITH HOLLOW STEEL TIES
SWITCH MACHINE ON MAINLINE SIDE
NOTE:
1. SEE DRAWING SD-2607 FOR THE LOCATION DIMENSIONS
2. SWIVEL HOSS SMALL BE PROPORTIONED TO Dimensions
   Shown in detail for basic location
  位置可能根据需要有不同大小
NOTES:
1. ALL BURRING METHODS PERMITTED.
2. ALL HOLE RILERS SHALL BE REVELED PER DETAIL.
3. PORT OF HOLE RILERS SHALL BE MACHED ON SURFACE SIDE OF RILER WITH A WHITE LINE USING WATERPROOF MARKER OR PAINT.
4. ANY RILER CAPTURED ON HEID OF RILER WITH WATERPROOF MARKER OR PAINT.

RAIL END/TOLE RIVETING DETAIL
RAIL HEAD ONLY - NOT BASE

57-8" ± 1/4" OVERALL LENGTH

MARK FOR P5

14-8 3/8" ± 1/4"
18-0" UNDERCUT (4") - 0"

1 1/4" OR (4/16" - 0")
4 1/2"
RUNOUT

SPECIAL TRACKWORK
NO 14, TURNOUT
SAWSON, STOCK RAIL FOR RH TURNOUT
1H STRAIGHT 57-8" LONG

SPECIAL TRACKWORK
ORD NO:
50-2015

CREDIT
0 090311
1102

PENINSULA CORRIDOR JOINT POWERS BOARD

STANDARD DRAWINGS

CALTRAIN

SPECIAL TRACKWORK
ORD NO:
50-2015
NOTES:
1. TIES SHALL INCLUDE TIES 3, 4, 5, 6, THROUGH 8 AND 10 THROUGH 93. TIES 1, 80 CANTED TIES. TIE PINS FOR ALL PLATED AND PIN INSERTS.
2. TIE LENGTHS ARE DETERMINED BY ADDING 1/2 IN. TO RAIL CLEARANCE FOR EACH 1/8 IN. FROM RAIL CENTERline. THE DISTANCE IS THE CENTERLINE BETWEEN TIES AT THE CENTERLINE OF EACH TIE LOCATION.
3. ALL TIES ARE FLAT (NON-CANTED) EXCEPT 1, 80 CANTED TIES.
4. TRANSITION TIES 70-75. TIE CANTING 1/8 IN. CANTAL RAIL EARS. USE 4 1/8 IN. BETWEEN TRANSITION RAIL TIES ALONGSIDE. LEADER TIE 8/35.
5. THIS DRAWING SHOWS TIE "O" PLACEMENT FOR SWITCH MACHINE ON LH/MACHINE TREE.
6. USE OPPOSITE HAND FOR SWITCH MACHINE ON RH/TURNOUT SIDE.
7. SEE BULK MATERIALS ABOVE FOR TIES 3, 4, 5 AND 9.
BILL OF MATERIALS

<table>
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<th>QTY</th>
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<tr>
<td>1</td>
<td>4</td>
<td>TIE 12.5, 15, 18, POWDERED SWITCH MACHINE ON MAINLINE SIDE FOR LH TURNOUT HOLLOW STEEL</td>
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<tr>
<td>2</td>
<td>4</td>
<td>TIE 12.5 AND 15, POWDERED SWITCH MACHINE ON MAINLINE SIDE FOR RH TURNOUT HOLLOW STEEL</td>
</tr>
</tbody>
</table>

NOTES:
1. SET SMALL SIZES TIES 3, 5, 6, 8, THROUGH 10, AND 12 THROUGH 30, TO BE NON-CANTIED TIES, THE REST FOR ALL PLANTS AND PAYMENTS.
2. THE LENGTHS ARE DETERMINED BY ADDING 4-1/2" TO THE MAIN GAUGE LINE FOR 2-1/2" FROM MAIN GAUGE LINE TO THE CENTERLINE OF EACH TIE LOCATION.
3. ALL TIES ARE FLAT (NON-CANTIED) EXCEPT TIES CANTIED TRANSITION TIES.
4. TRANSITION TIES (QUANTITY AS SMALL INDICATED) FOR CANTIED MAIN GAUGE TIES AND USE 4-1/2" BETWEEN SMALL MAIN GAUGE TIES. LENGTH SMALL GAUGE TIES 3-3.
5. THIS DRAWING SHOWS TIE 12" PLACEMENT FOR SWITCH MACHINE ON MAINLINE SIDE, USE OPPOSITE HAND FOR SWITCH MACHINE ON MAINLINE SIDE.
6. SEE BILL OF MATERIALS ABOVE FOR TIES 1, 2, 3, AND 18.

PENINSULA CORRIDOR JOINT POWERS BOARD
STANDARD DRAWINGS
SPECIAL TRACKWORK
NO 14 TURNOUT
HOLLOW STEEL TIE AND CONCRETE TIE LAYOUT FOR LH TURNOUT

DRAWN:

APPROVED:
[Signature]
[Signature]

DATE:
02/2011

SPECIAL TRACKWORK
NO 14 TURNOUT
HOLLOW STEEL TIE AND CONCRETE TIE LAYOUT FOR LH TURNOUT
NOTE:
1. COORDINATE Switch MACHINE AND MACHINE PLATES (NC) WITH CALTRAIN
NOTES:
1. COORDINATE SWITCH MACHINE AND MACHINE PLATES (MPC) WITH CALTRIM.
NOTE:
1. COORDINATE SWITCH MACHINE AND MACHINE PLATES (MC) WITH CALTRAIN
NOTES:
1. Retarder closing time range from 1 to 3 minutes.
2. Spring box load is 300 lbs/in.
3. Spring box shall be installed to a 1/4" clearance at the 2/4 point to determine the spring void in throw position.
4. Flat rail brackets (304436) shall be welded with a 3/4" travel up.
5. Rail box clearance shall be 0.03" and is set 3/32" above rail base.
6. Retarder bracket (304436) shall be welded as shown.
7. Rod shall be constructed to tolerances given on latest area plan site (variable conditions in completed projects).
8. Inset shall be used with 60s per area.
9. Rod tag shall be affixed to road rail near 1/2" below information shown.
10. Caltrain will consider a modified heel spring of same alignment and conditions to replace rod.
FORGED SHOULDER WELDING DETAIL

NOTES:
1. ED. CHARACTERS SHALL BE 1/2" MINIMUM HEIGHT CLEARLY STAMPED AS SHOWN
2. HOLES SHALL BE OVERSIZED ON ASSEMBLY AND TRIM TO PROPERLY EYE-HOLE FASTEN
3. SLotted HOLE CENTERS ARE DESIGNATED ON DRAWING

FROG BASE PLATE 14-136-52LC
Frog Base Plate 14-136-52RC

Notes:
1. Edges shall be dressed flush with shakers and strips and not to protrude into rail seat.
2. Slotted hole centers are indicated on drawing.

Forced Shoulder Welding Detail

Ensure clearance for 7/8" dial cup

Bill of Material

<table>
<thead>
<tr>
<th>MPX</th>
<th>GTY</th>
<th>DESCRIPTION</th>
<th>QTY</th>
<th>DOG NO</th>
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<tr>
<td></td>
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<td>BOLTING PLATE 1/8 THICK</td>
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<td>BOLTING STEP 1/8 THICK, TAPERED 1 3/16&quot; TO 1 3/4&quot; 2&quot; LONG</td>
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<tr>
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<td>BOLTING STEP 1/8 THICK, TAPERED 3 3/16&quot; TO 3 15/32&quot; 8&quot; LONG</td>
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<td>4</td>
<td>BOLTING FORGED, FORGED WING BOLT TYPE</td>
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</table>
NOTES:
1. ALL CHARACTERS SHALL BE 1/2" MINIMUM HEIGHT
CLEARLY STATED AS SHOWN.
2. WELDS SHALL BE CHECKED FLUSH WITH \( \theta \) PLATES
AND STEPS AND NOT TO PROTRUDE INTO BASE, SEAT
3. OPENINGS IN \( \theta \) PLATE BLOCKS SHALL BE FREE
OF NIPPED AND SPATTER
4. SLOTTED HOE CENTERS ARE INDICATED ON DRAWING

FORGED SHOULDER WELDING DETAIL

FROG BASE PLATE 14-136-5SLC
FORGED SHOULDER WELDING DETAIL

NOTES:
1. ED. CHARACTERS SHALL BE 1/2" MINIMUM HEIGHT CLEARLY STAMPED AS SHOWN
2. HEADS SHALL BE SMOOTHED FLUSH WITH SHOULDERS AND STOPS AND NOT TO PROJECT INTO WELD Joints
3. OPENINGS IN BOLT CAPTURE BLOCKS SHALL BE FREE OF WELD AND SPATTER
4. SLOT WELD CENTERS ARE INDICATED ON DRAWING

FROG BASE PLATE 14-136-55RC

PENINSULA CORRIDOR JOINT POWERS BOARD

STANDARD DRAWINGS

SPECIAL TRACKWORK
NO 14 TURNOUT
WSM FROG RH
FROG BASE PLATE 14-55RC

08-30-2011
SPECIAL TRACKWORK
SIGNATURE BLOCK
SPECIAL TRACKWORK
SD-2630
**NOTES:**

1. RED CHARACTERS SHALL BE 1/2" MINIMUM HEIGHT CLEARLY STAMPED AS SHOWN.
2. HEADS SHALL BE SHAPED FLUSH WITH SHOULDERS AND STEPS AND NOT PROTRUDE INTO RAIL SEAT.
3. OPENINGS IN BOLTED CAPTURE BLOCKS SHALL BE FREE OF HOLE AND SPAFF.
4. SLotted HOLE CENTERS ARE INDICATED ON DRAWING.

---

**SCHEDULE OF MATERIAL**

| ITEM | QTY FOR 14-136-62LC | QTY FOR 14-136-64LC | DESCRIPTION | ORGWID
|------|----------------------|----------------------|--------------|--------
| 1    | 1                    | 0                    | CAPTURE BLOCK, 3/8" RAIL | 0      |
| 2    | 3                    | 4                    | SHIELDED TUNGSTEN TROUBLES, TYPE 1 | 0      |
| 3    | 0                    | 3                    | FLAT BAR, 3/8" x 3" x 2' - 3/4" | 0      |

---

**WELDING DETAILS**

**FORGED SHOULDER WELDING DETAIL**

---

**SPECIAL TRACKWORK**

**NO. 14 TURNOUT**

**WSM FROG LHF**

**FROG BASE PLATES 14-62LC AND 14-64LC**
BILL OF MATERIAL

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<td>FLAT BAR, ASTM A36, 3/4&quot; x 8&quot; x 2'-6&quot; 1/4&quot; LONG</td>
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<td>4</td>
<td>SHOULDER PANSY, FORGED TUNNEL B. TYPE I</td>
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NOTES:

1. SECTIONS SHOWN TO BE 1/8" MINIMUM HEAT TREATED AS SHOWN
2. HEAT TREATED AND PANSY SPILL WITH SHOULDER AT
   3. SPACED HOLE CENTERS ARE DEPICTED ON DRAWING

FORGED SHOULDER WELDING DETAIL