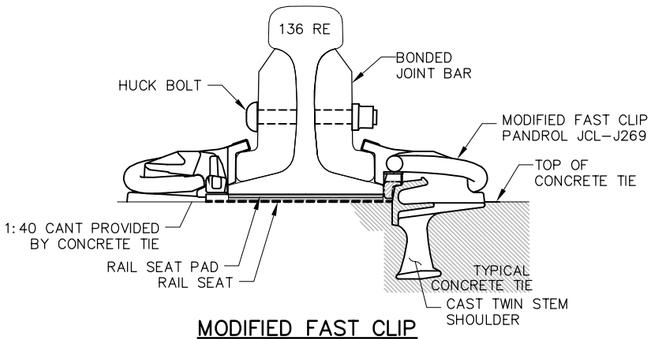
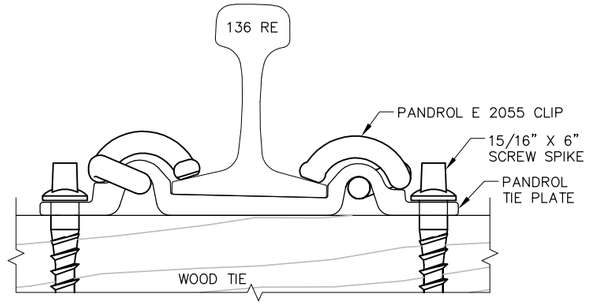
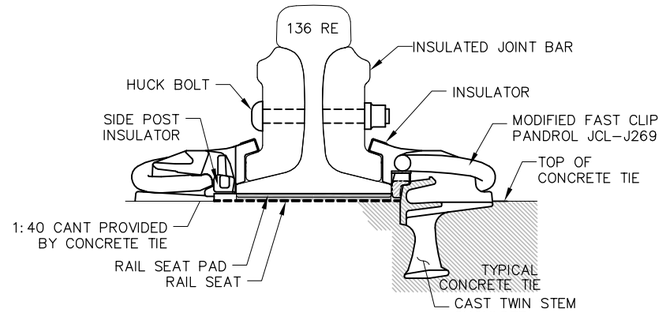


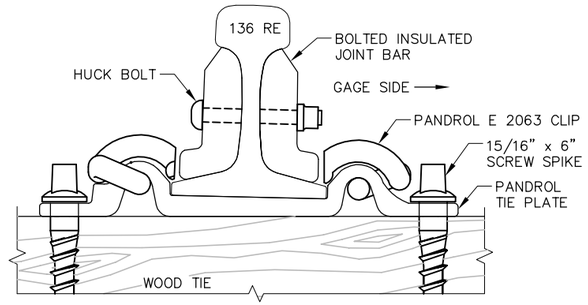
MODIFIED FAST CLIP
FOR STANDARD JOINTS
ON CONCRETE TIE



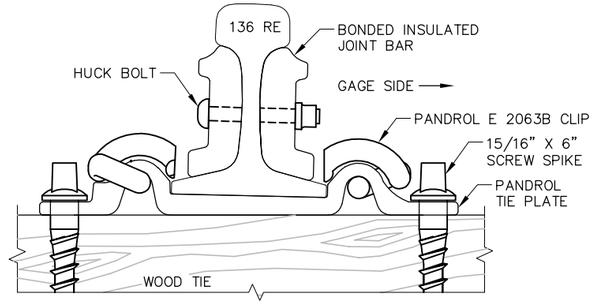
PANDROL E 2055 CLIP
ON TIMBER TIE



MODIFIED FAST CLIP
FOR INSULATED JOINTS
ON CONCRETE TIE



PANDROL E 2063 CLIP
FOR STANDARD JOINT
ON TIMBER TIE



PANDROL E 2063B CLIP
FOR INSULATED JOINTS
ON TIMBER TIE

GENERAL NOTE:

IN THE EVENT OF SUBSEQUENT PRODUCTION CHANGE, SUBMIT (IN WRITING) FOR ENGINEER'S APPROVAL PANDROL RECOMMENDED REPLACEMENT WHICH EQUALS OR EXCEEDS THE PART NUMBER SPECIFIED HEREIN

FOR CONCRETE TIE FASTENERS:

1. FOR ALL LOCATIONS OTHER THAN JOINTS AND TRANSITION ZONE. SEE SD–2211. NOMINAL TOE LOAD 2,400 TO 3,000 LBS, AND NORMAL RAIL SEAT CLAMPING FORCE 4,800 TO 6,000 LBS
2. USE MODIFIED FAST CLIPS JCL–J269 AT JOINT LOCATIONS (STANDARD JOINTS AND INSULATED JOINTS)
3. FAST CLIPS FOR INSULATED JOINTS ARE PAINTED YELLOW FOR QUICK VISUAL IDENTIFICATION

FOR TIMBER TIE FASTENER:

1. USE PANDROL E CLIPS WITH PANDROL 7 3/4" X 16" PLATE AND SCREW SPIKES
2. USE E 2055 CLIPS AT ALL LOCATIONS OTHER THAN JOINT BAR OR INSULATED JOINT LOCATIONS. NOMINAL TOE LOAD 2,750 LBS. AND NOMINAL RAIL SEAT CLAMPING FORCE 5,500 LBS
3. BEARING AREA OF TOE FOR E 2055 CLIP IS 0.7 SQ IN
4. E 2055 CLIPS SHALL BE GALVANIZED WHEN PLACING IN ROAD CROSSINGS, PEDESTRIAN CROSSINGS, PLATFORMS, AREAS COVERED WITH ASPHALT OR BASED MATERIAL, AND LOCATIONS WHERE CORROSION IS A PROBLEM
5. USE E–2063 CLIP ON ALL STANDARD JOINT BARS
6. USE E–2063B CLIP AND OVERDRIVE PROTECTORS ON TIMBER TIES FOR INSULATED JOINT LOCATIONS
7. PAINT E 2063B CLIP FOR INSULATED JOINTS YELLOW FOR QUICK VISUAL IDENTIFICATION

REV	DATE	BY	CHK	APP	DESCRIPTION

REV	DATE	BY	CHK	APP	DESCRIPTION

PENINSULA CORRIDOR JOINT POWERS BOARD

APPROVED BY:

ENGINEERING MANAGER

DEPUTY DIRECTOR OF ENGINEERING

Caltrain
1250 San Carlos Avenue
San Carlos, CA 94070

STANDARD DRAWINGS

TRACK
RAILS, TIES, AND FASTENERS
FASTENING ASSEMBLIES
FOR STANDARD AND INSULATED JOINTS

CADD FILE NO.:	SD–2222
REV: 0	DATE: 093011
TRACK	
STANDARD NO.:	SD–2222