Basics - Conduit Fittings & Tie Marking

**Conduit Boxes**
- Type LB
- Type C
- Type T

**Washers Locate Boxes**
- Two 2” Fender Washers means a Type T box is nearby.
- One 2” Fender Washer means a Type C or Type LB box between the tracks
- One 1” Washer means an Expansion Joint nearby

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[Diagram showing Conduit Boxes and washers for locating boxes]
8. Mainline Meet Track - Track Insulators

140’ Minimum Length SP to SP

Spring Switch

Spring Switch
8. Mainline Meet Track - Install 4 Signal Foundations

- Signal Foundation 4’ from Center Line of Track
- Conduit on top of Plastic
8. Mainline Meet Track - Install 4 Track Boxes and 2 Flex Conduits

= Type LB Boxes
8. Mainline Meet Track - Where the Wires Go

For Your Information -- No Action required
8. Mainline Meet Track - Install Conduit

4 Type LB or C Track Boxes
2 2x4 Connection Boxes

One Conduit from Enclosure to each end of Siding
Expansion Joints every 20’
Whatever Route Works

= Type C or LB Box to let wires out between the Rails
8. Mainline Meet Track - Pull Wire

Note: The Track Team pulls all the wire that goes through an Expansion Joint. The Signal Team pulls the rest of the wire which includes all the 18 AWG wire. If there is a Remote Solar Panel, the Track Team pulls Red and Black 18AWG From the Solar Panel to the CP Board Enclosure.

Cat5 Pulls
- Enclosure to Signal 1 - Other
- Enclosure to Signal 2 - Blue
- Enclosure to Signal 3 - Other
- Enclosure to Signal 4 - Blue

Blue Cat5 Wire
Black Cat5 Wire
Other color Cat5
(usually Yellow, White, or Grey)

Pull a String with the Cat5
Leave 2’ Wire & String at Ends
8. Mainline Meet - Pre Ballast Checklist

Mainline Meet Track
___ 140’ plus Switch Point to Switch Point
___ Two 100’ radius Switches

Spring Switches
___ 2 Spring Switches

Insulators
___ 10 Track Insulators per diagram

Track Boxes
___ 4 Track Boxes
___ All Type C or Type LB
___ All on 2” pieces of conduit

Fender Washers (FWs)
___ Expansion Joints - 1” FW on Top of Tie at End
___ Track Boxes - 2” FW on Top of Tie at End
___ T Boxes - Two 2” FWs on top of Ties at End
___ Foul Points - 2” FW on Top of Tie at Center
___ Signal Points - Two 2” FWs on Top of Tie at Center

Signal Foundations
___ 2 Foundation Blocks
___ All at Signal Points
___ All 4’ from Center Line(s) of Track(s)
___ 18” threaded Mast in each Foundation Block

Flex Conduit
___ Flex Conduits per diagram

Conduit
___ Enclosure to N End
___ Enclosure to S End
___ Enclosure to Remote Solar Panel (If Any)
___ Connects to 4 Track Boxes
___ Type C or LB Track Boxes between rails
___ Type C or LB Track Boxes on 2” pieces of conduit
___ Conduit on top of Plastic
___ Expansion Joints every 20’
___ 8”-10” from Tie Ends

Wire Pull
___ Enclosure to Signal 1 - Other
___ Enclosure to Signal 2 - Blue
___ Enclosure to Signal 3 - Other
___ Enclosure to Signal 4 - Blue
___ String in every Conduit
___ 2’ wire & string at each end

Wire Pull - If Remote Solar Panel
___ White & Black 18AWG wire
___ String
___ 2’ wire & string at each end

Plywood
___ Plywood over Type C box

As Builts
___ Map of Conduit
___ All Changes Noted
___ Delivered to Ross

Where_________________

By ____________________

Date___________________