Sidings
Field Kit
1. 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

Optional 2x4 Connection Box

Expansion Joint

Optional 2x4 Connection Box

Foul Point

Switch Point

2" Conduit pieces under Conduit
7. Sidings - Install 2 Switch Stands First

Switch Bar

Switch Stand Mechanism

40’ of Metal EMT Conduit & Rod to Switch Stand

Switch Stand Conduit normally runs away from Signal Conduit
7. Siding - Install Track Insulators

SP = Signal Point

140’ Minimum Length SP to SP

Switch Stand 40’

Switch Kick Plate
7. Siding - Install 2 Signal Foundations

- Signal Foundation 4' from Center Line of Track
- Conduit on top of Plastic
7. Siding - Install 2 Push Buttons

• Push Buttons
  • 40’ from Signal Foundation
  • Post 27” from track center line
  • All Parts 24”+ from track center line
  • 5’ Post, Set in Concrete, 3’ above ground
  • Bottom out of round so it won’t rotate
7. Siding - Install Track Boxes, Flex Conduit

= Type LB Boxes

= 2x4 Connection Box
7. Sidings - Where the Wires Go

For Your Information -- No Action required
7. Siding - Install Conduit

Type LB Track Boxes
2x4 Connection Boxes

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

= 2x4 Connection Box
= Type T Box
= Type LB Boxes to let wires out between the Rails
7. Siding - Pull Wire

Cat 5 Pulls
- Enclosure to S Signal - Blue & Other
- S Signal to Push Button - Black
- S Signal to South End Track Box - Other
- Enclosure to N Signal - Blue & Other
- N Signal to Push Button - Black
- N Signal to North End Track Box - Other

Pull a String with the Cat5
Leave 2’ Wire & String at Ends

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.
7. Sidings - Pre Ballast Checklist

Sidings
___ 140’ plus Switch Point to Switch Point
___ Three 75’ radius Switches

Switch Stands
___ Switch Stands on 2 Mainline Switches
___ Switch Stands 40’ from Switch Boxes
___ Metal EMT Conduit & Rod in Insulators
___ 10 Track Insulators per diagram

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

Connection Boxes
___ 2 Connection Boxes (2”x4”)

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

Push Buttons
___ 2 Push Button Posts
___ 40’ from Signal
___ No part <24” from Center Line Track

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
___ Connects Signals to Push Buttons
___ 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 S Signal - Blue & Other
___ S Signal to Push Button - Black
___ S Signal to South End Track Box - Other
___ Enclosure to N Signal - Blue & Other
___ N Signal to Push Button - Black
___ N Signal to North End Track Box - Other
___ 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