

# What the Track Team Does

The Goal of the Track Team is to do  
everything necessary before Ballasting

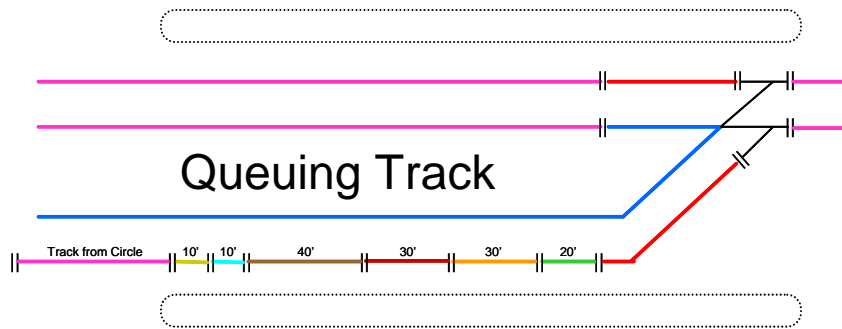
# Track Team

1. Basics
2. Lay Track Panels
3. Install Solar Posts
4. Install Enclosure
5. Install Intermediate Signals
6. Install Wyes
7. Install Sidings
8. Install Mainline Meet Tracks
9. Install Queuing Tracks
10. Witcombe
11. Ballast

## 2. Lay Track Panels

- **Mark Foul Points and Signal Points**
- **Make sure we have 140'**
  - Wyes must have 140 feet minimum of track beyond the switch at which the 2 legs of the Wye Join. The standard is 160' to allow 20' for storage of equipment.
  - Queuing Tracks must have 180 feet minimum length approaching the Signal Points (250' or more better)
  - Sidings & Mainline Meet Tracks must have 140' feet minimum between Signal Points
- **100' Radius Switches on Mainline**
  - Wyes
  - Mainline Meet Tracks
  - Queuing Tracks
- **75' Radius Switches on Sidings & Yards**
- **Spring Operated Switches - Mainline Meet Tracks & Queuing Tracks**
  - Switches on Mainline Meet Tracks & Queuing Track must be spring operated -- No Kick plates, No Switch Stands.
- **Switch Stands - Wyes & Sidings**
  - Mainline Switches to Wyes and Sidings get Switch Stands
  - Storage track off Sidings gets a kick plate operated switch

# 3. Install Solar Post



## Solar Post Must Be In The Sun

### Best Locations

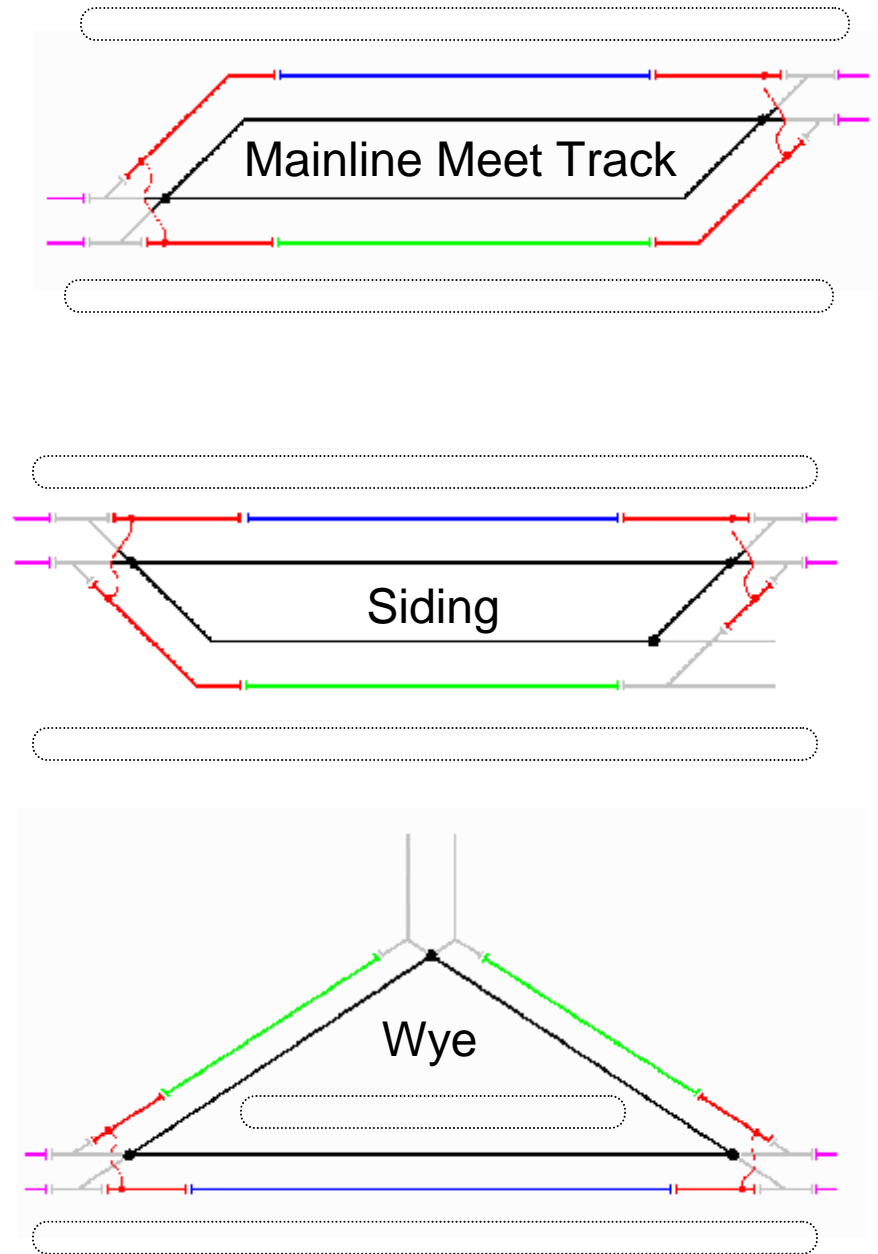
- Toward the center is easier

### Only One Solar Post is Needed.

- 8' from the Tracks, 10' Post
- 2' in Concrete, 8' above the ground.

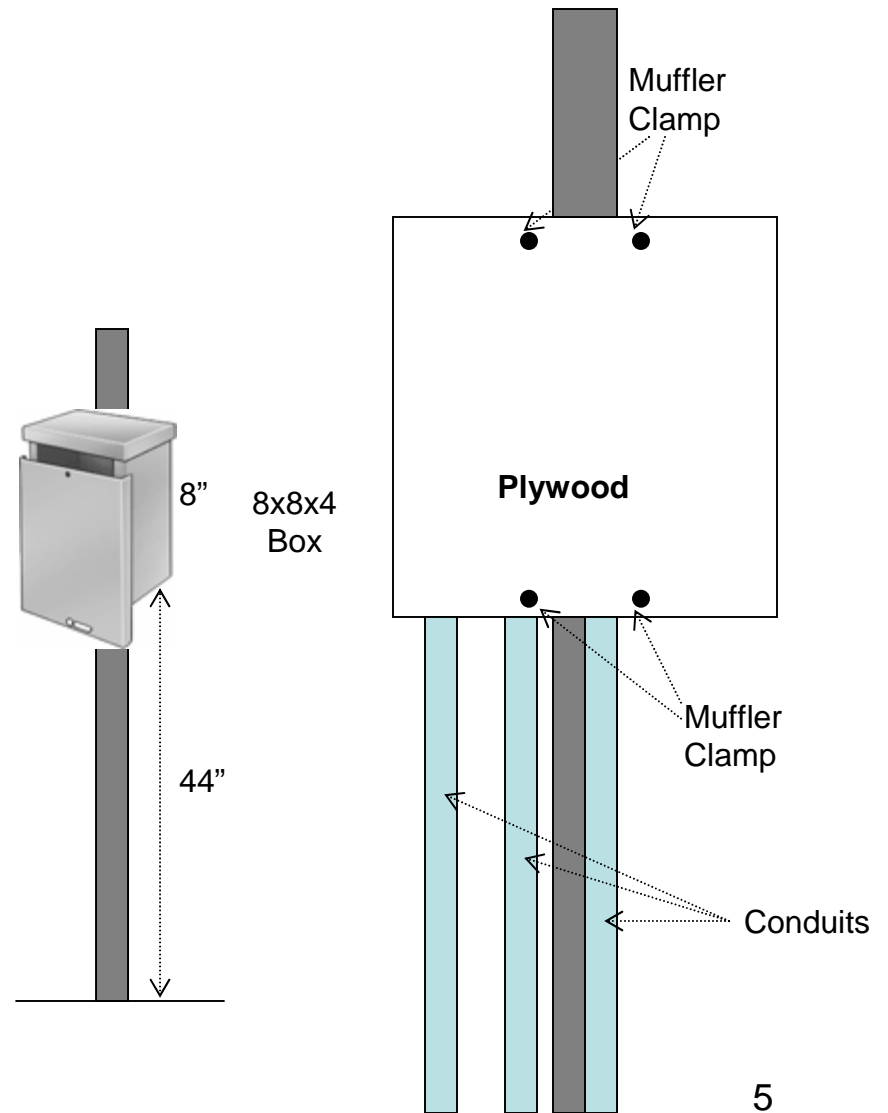
### If no Sun can be found in Best Locations, then :

- Put a Remote Solar Post in Nearby Sun
  - Put a Box for Battery on Post
    - Solar Panel must be within 20' of Battery
  - Run Red & Black 18 AWG in conduit to Enclosure
- Put an Enclosure Post in a Best Location
  - 8' from Tracks, 7' Post
  - 2' in Concrete, 5' above ground
  - Bottom out of Round so it won't Rotate



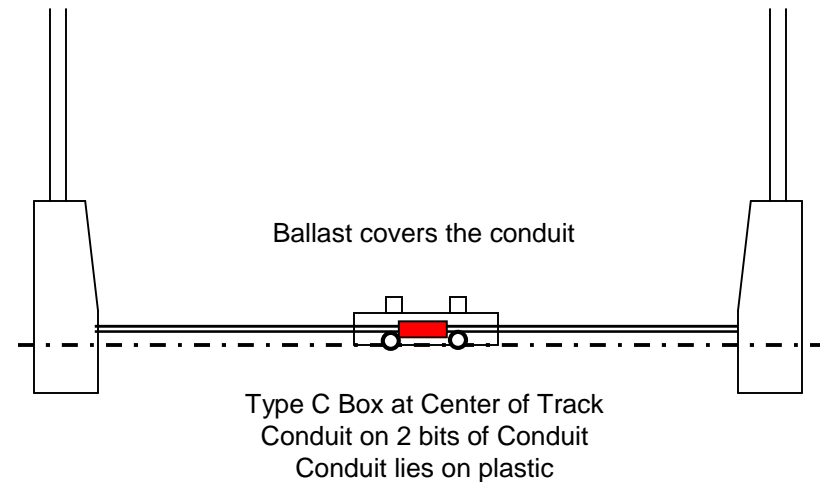
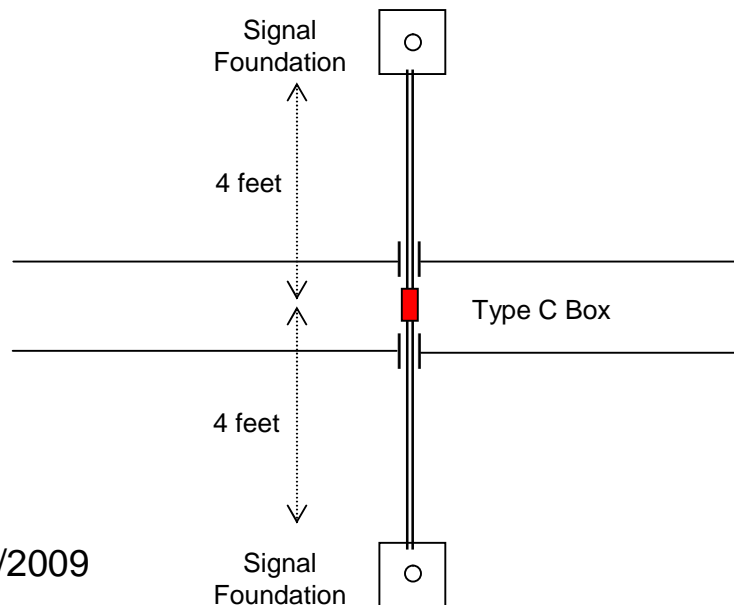
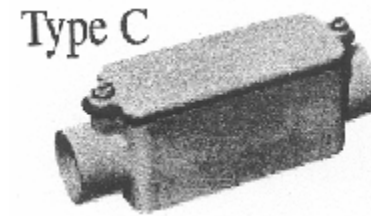
# 4. Install Enclosure

- On the Solar Post or Enclosure Post
- 8"x8"x4" Enclosure
- 44" above Ground
- Held to Posts with Muffler Clamps
- Conduits enter from Bottom



# 5. Intermediate Signals - Install Foundations, Insulators, and Conduit

- Intermediate Signals go at Block Boundaries
- One Signal Mast must be in Sun 4 hours a day
- Foundation Blocks 4' from center line of track
- Both rails get insulators
- Conduit lies directly on plastic
- Type C box at center of track
  - Conduit rests on two 2" bits of conduit
- Signal Mast screwed into top of Foundation Block
  - 18" rigid  $\frac{3}{4}$ " metal conduit threaded both ends



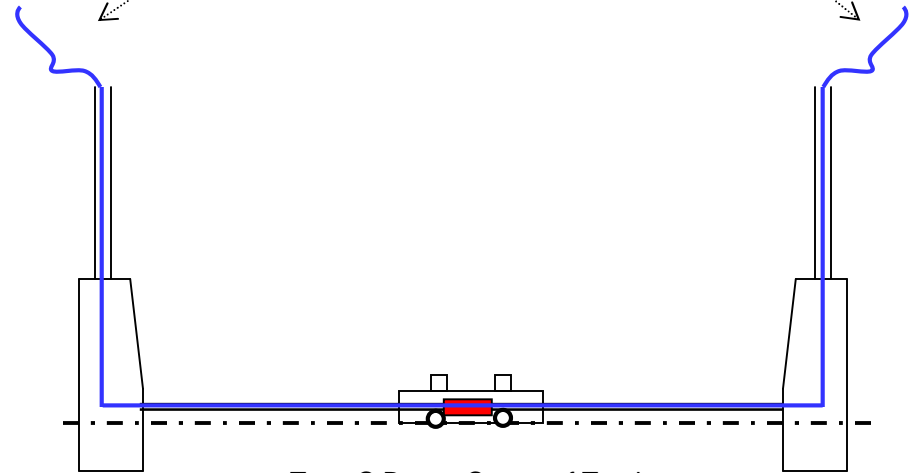
# 5. Intermediate Signals - Pull Wire

## Cat5 Pulls

- Signal Mast to Signal Mast - Blue Cat5

—— Blue Cat5 Wire

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



Type C Box at Center of Track  
Conduit on 2 bits of Conduit  
Conduit lies on plastic

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.

# 5. Intermediate Signals - Pre Ballast Checklist

## Insulators

Track Insulators Both Rails

## Signal Foundations

- 2 Foundation Blocks
- One Foundation in Sun 4+ hours a day
- 4' from centerline of Track
- 18" threaded Mast in each Foundation Block

## Flex Conduit

Between Joints

## Conduit

- Conduit between Foundation Blocks
- Conduit on top of Plastic
- Type C Track Box between rails
- Type C Track Box on 2" pieces of conduit

## Washers

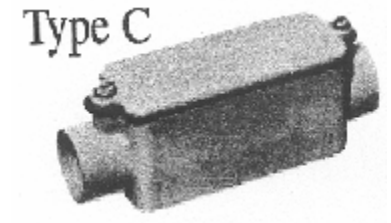
2" Washer marks Track Box - Top of Tie at End

## Wire Pull

- Blue Cat5 between Signal Masts
- String between Signal Masts
- 2' string & Cat5 on each end

## Plywood

Plywood over Type C box



Where \_\_\_\_\_

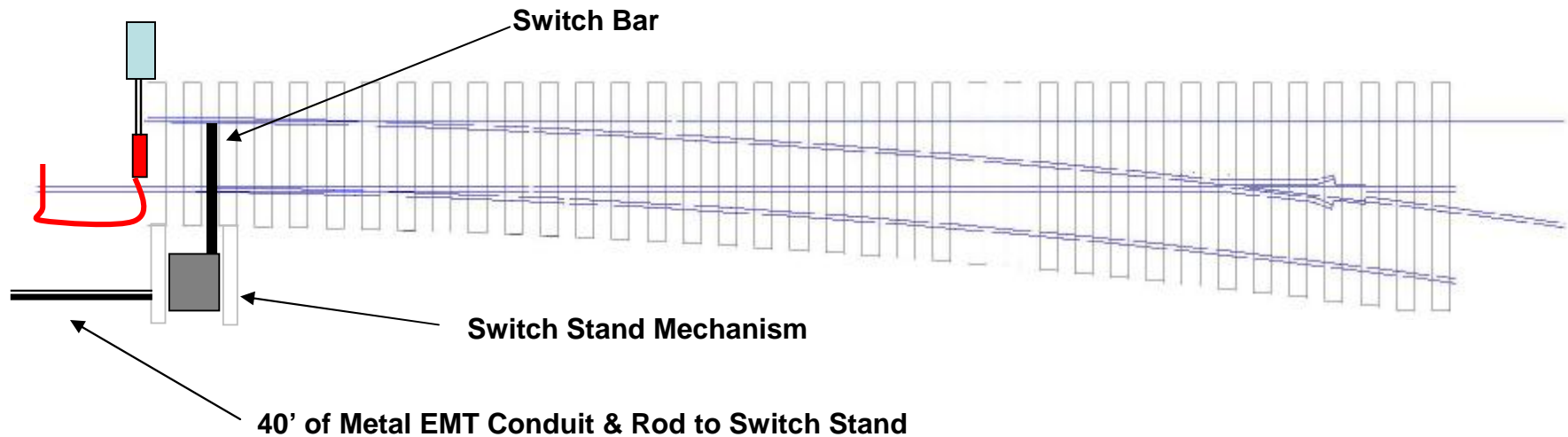
By \_\_\_\_\_

Date \_\_\_\_\_

4/5/2009

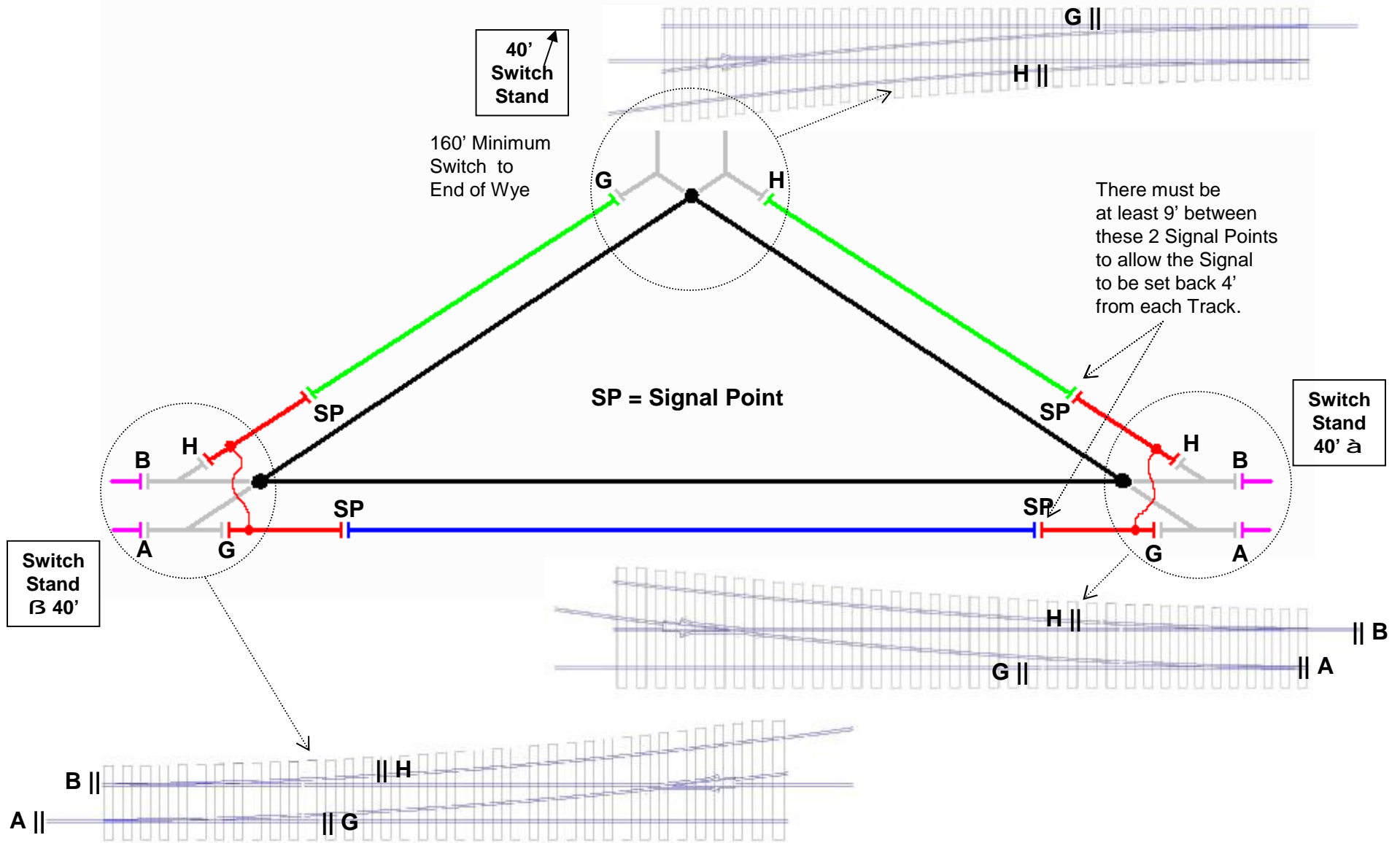


## 6. Wyes - Install 2 Mainline Switch Stands First

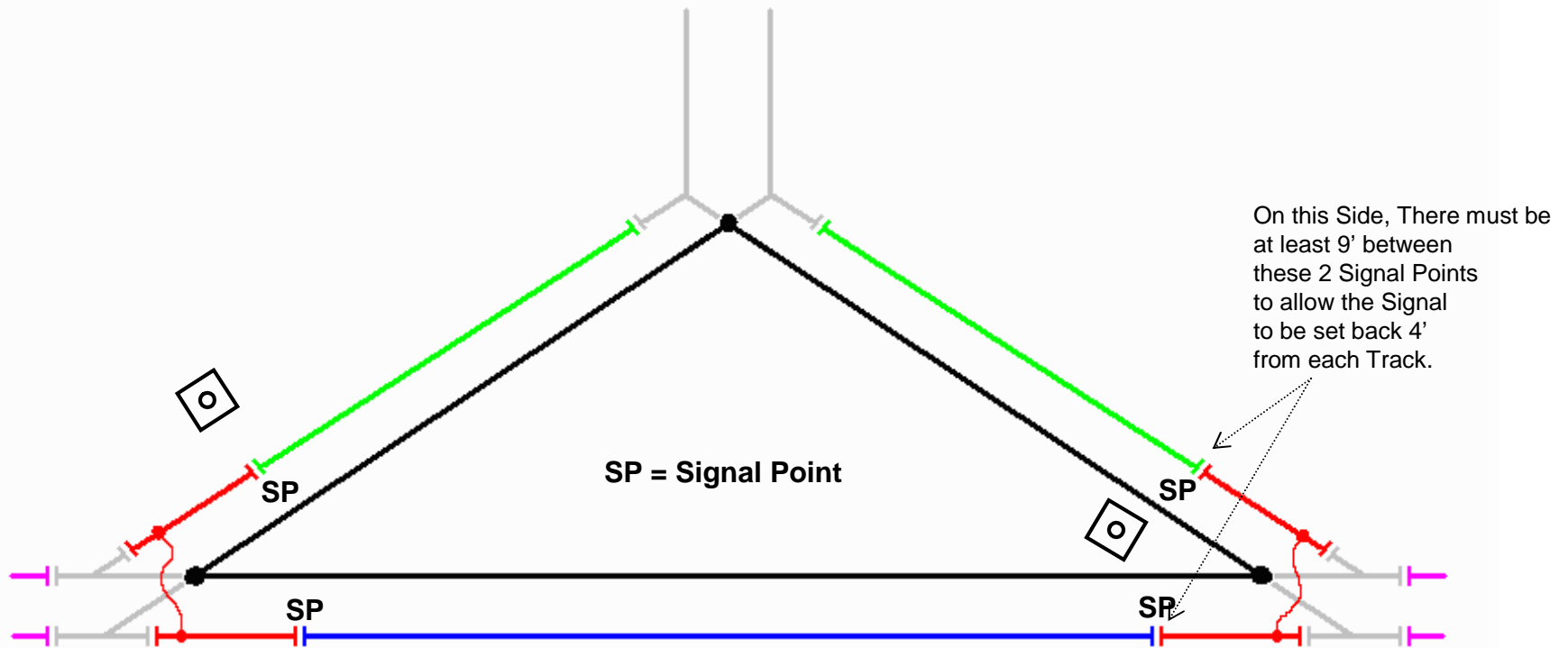


**Switch Stand Conduit normally runs away from Signal Conduit**

# 6. Wyes - Install 10 Track Insulators




# 6. Wyes - Install 2 Signal Foundations

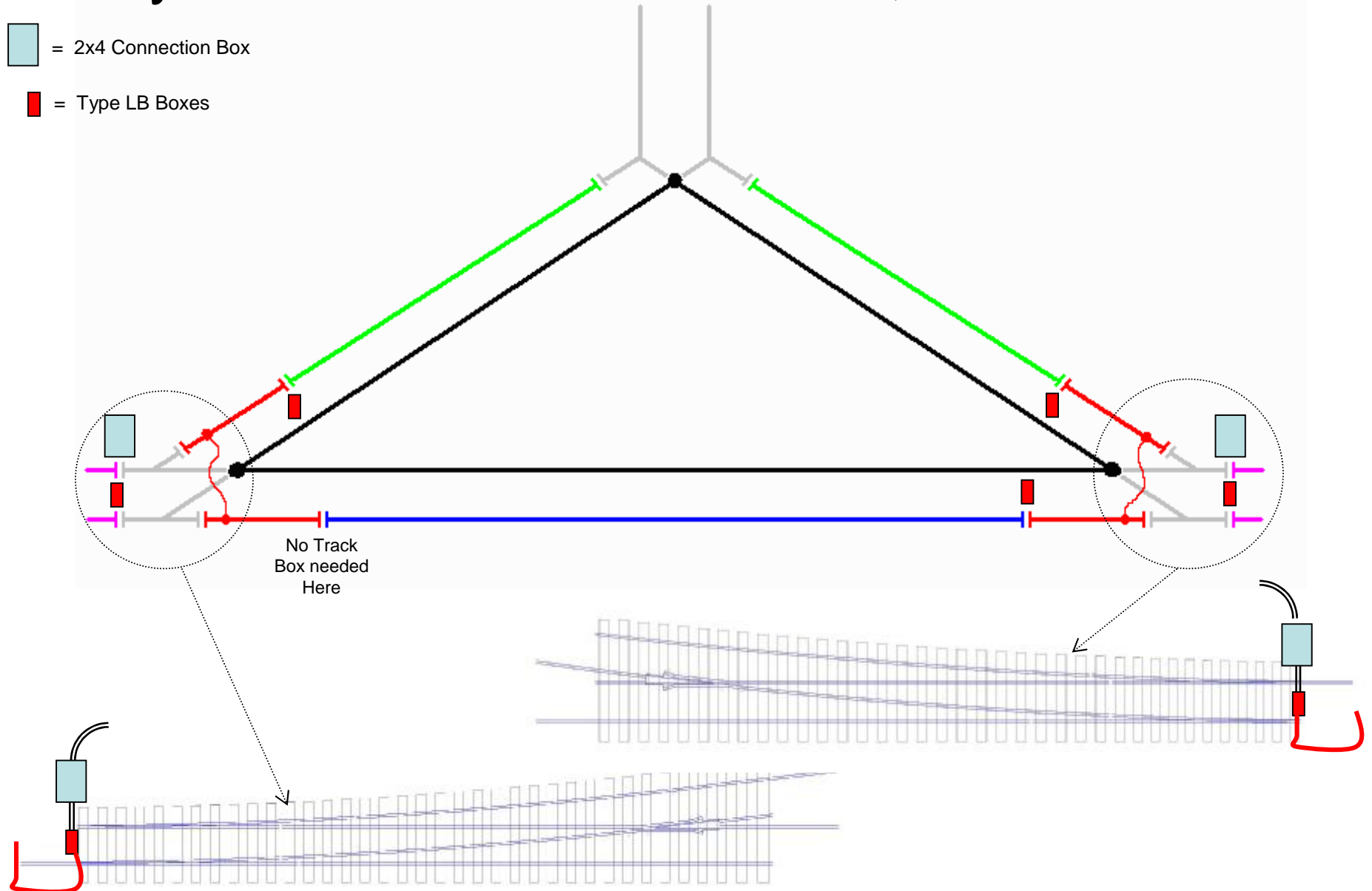


- Signal Foundation 4' from Center Line of Track
- Conduit on top of Plastic

# 6. Wyes - Install 5 Track Boxes, 2 Flex Conduit

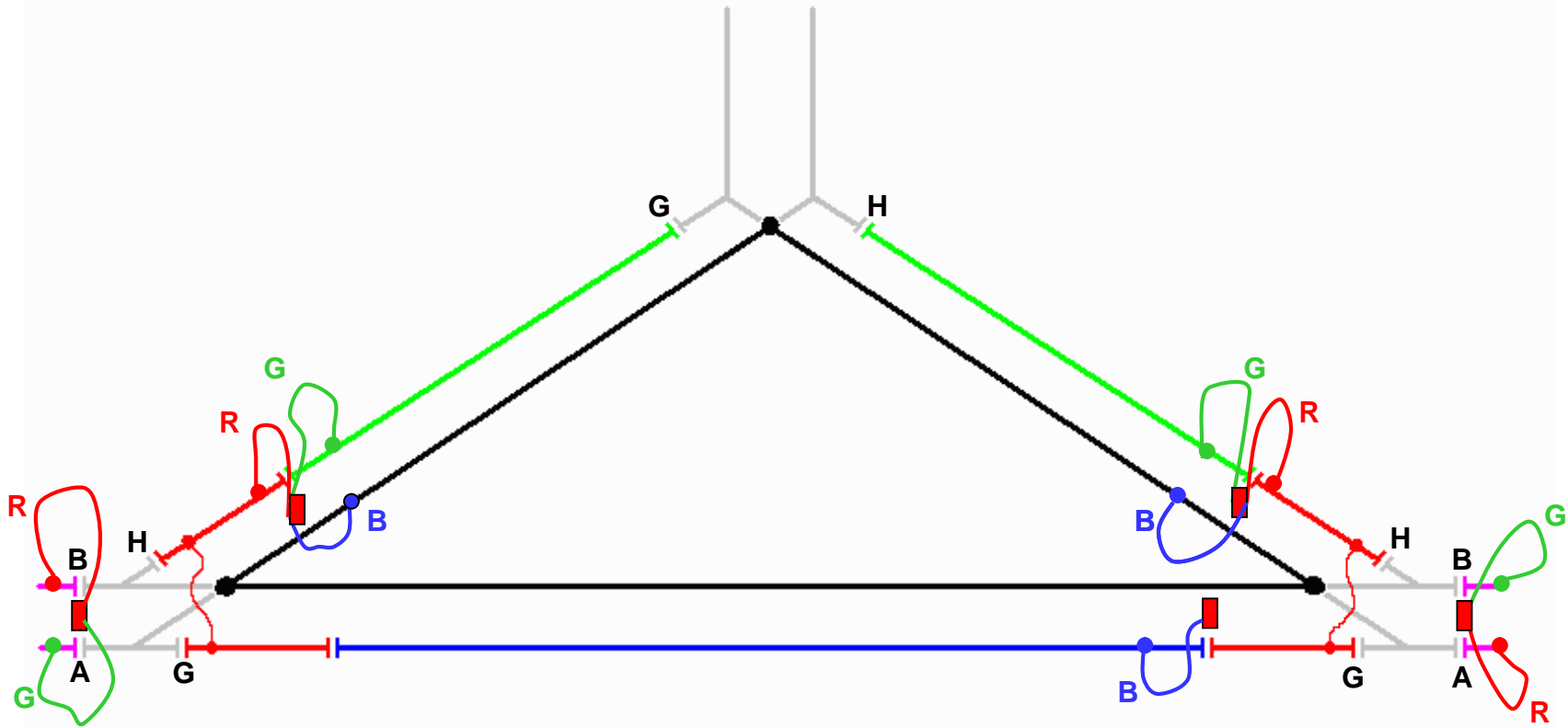
 = 2x4 Connection Box

 = Type LB Boxes



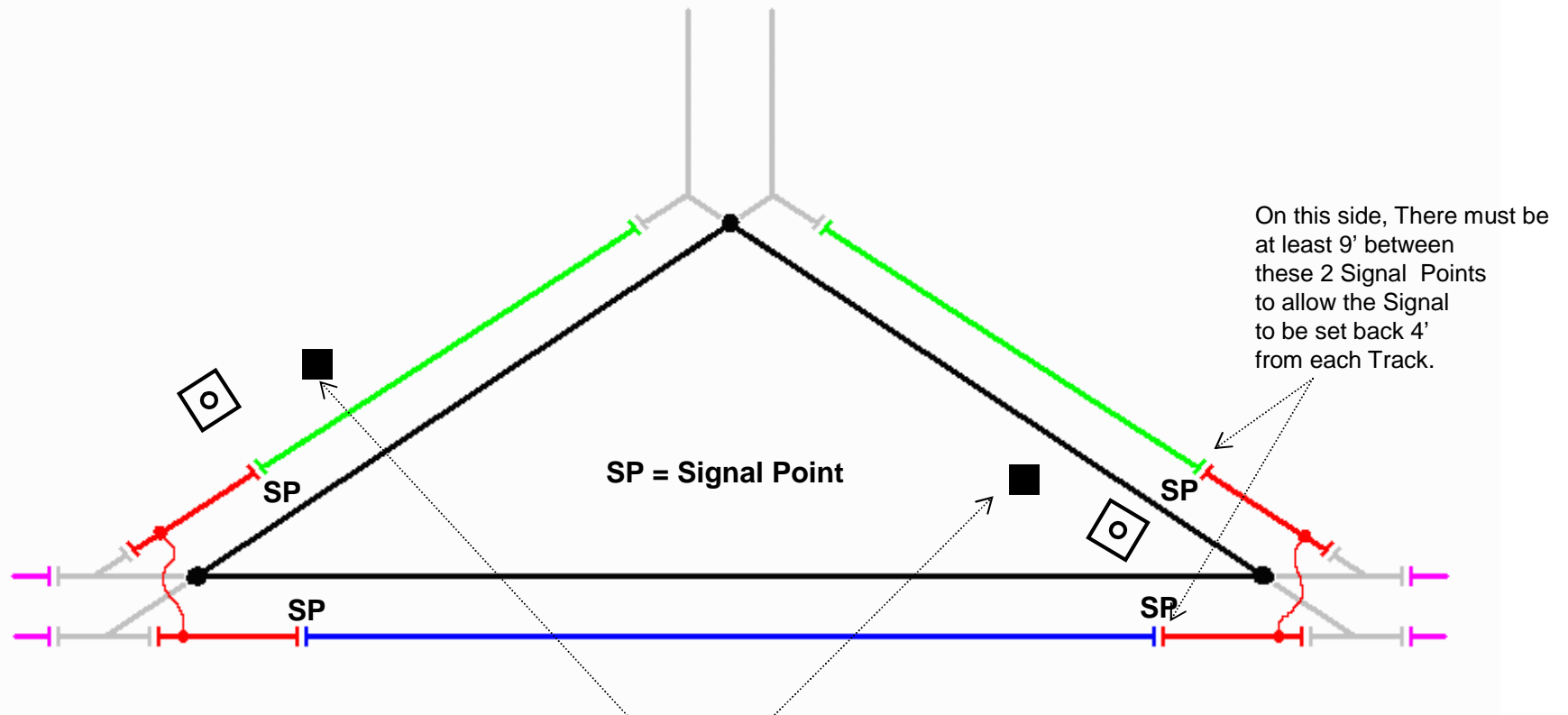
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# 6. Wyes - Where the Wires Go



**For Your Information -- No Action required**

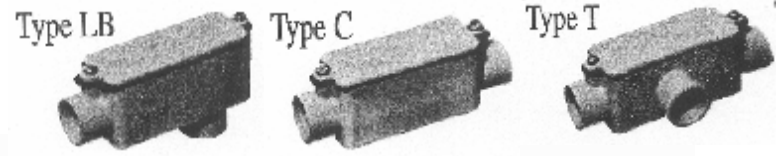
# 6. Wyes - Install 2 Push Buttons



## • Push Buttons

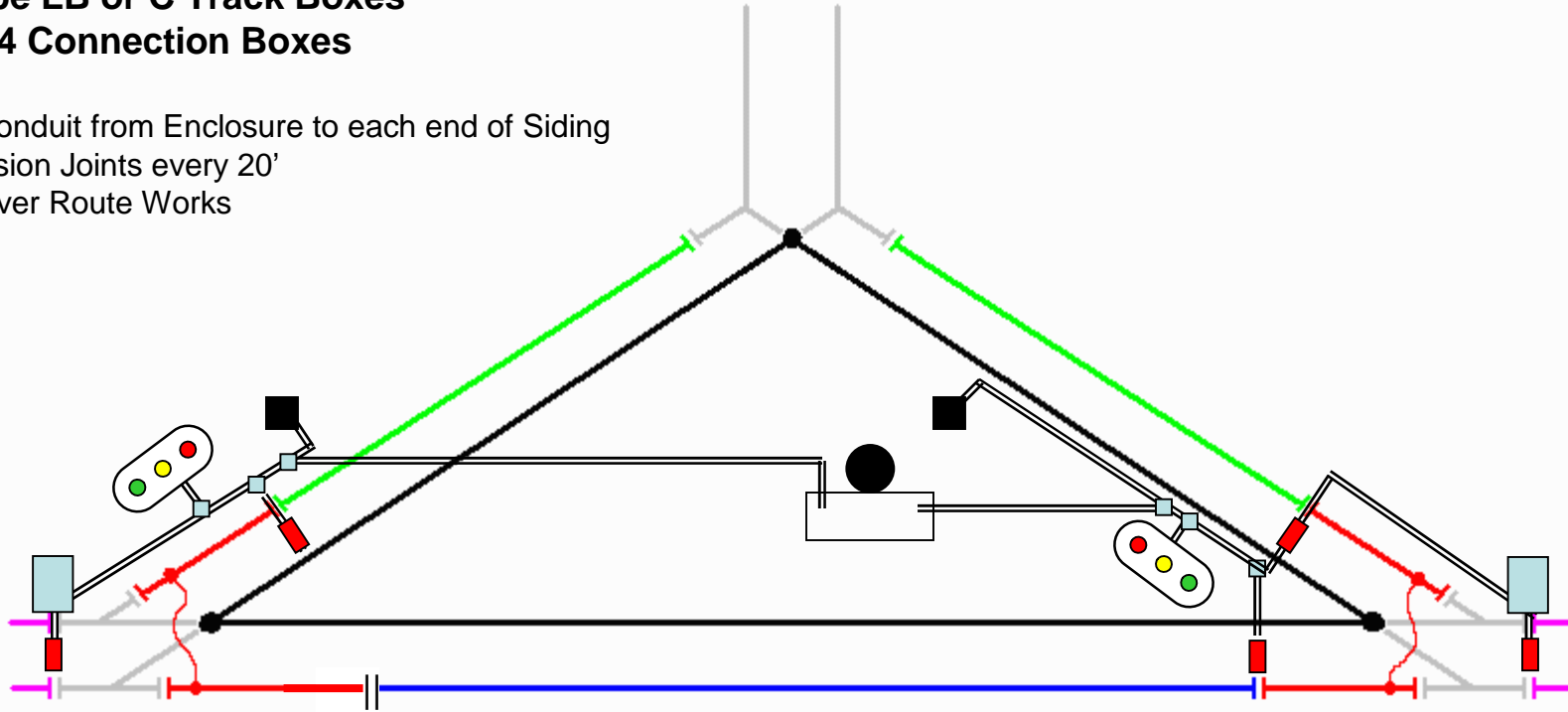
- 40' from Signal Foundation
- Post 27" from track center line
- All parts 24"+ from track center line
- 5' Post, Set in Concrete, 3' above ground
- Bottom out of round so it won't rotate




# 6. Wyes - Install Conduit



- 5 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



-  = 2x4 Connection Box
-  = Type T Box
-  = Type C or LB Box to let wires out between the Rails

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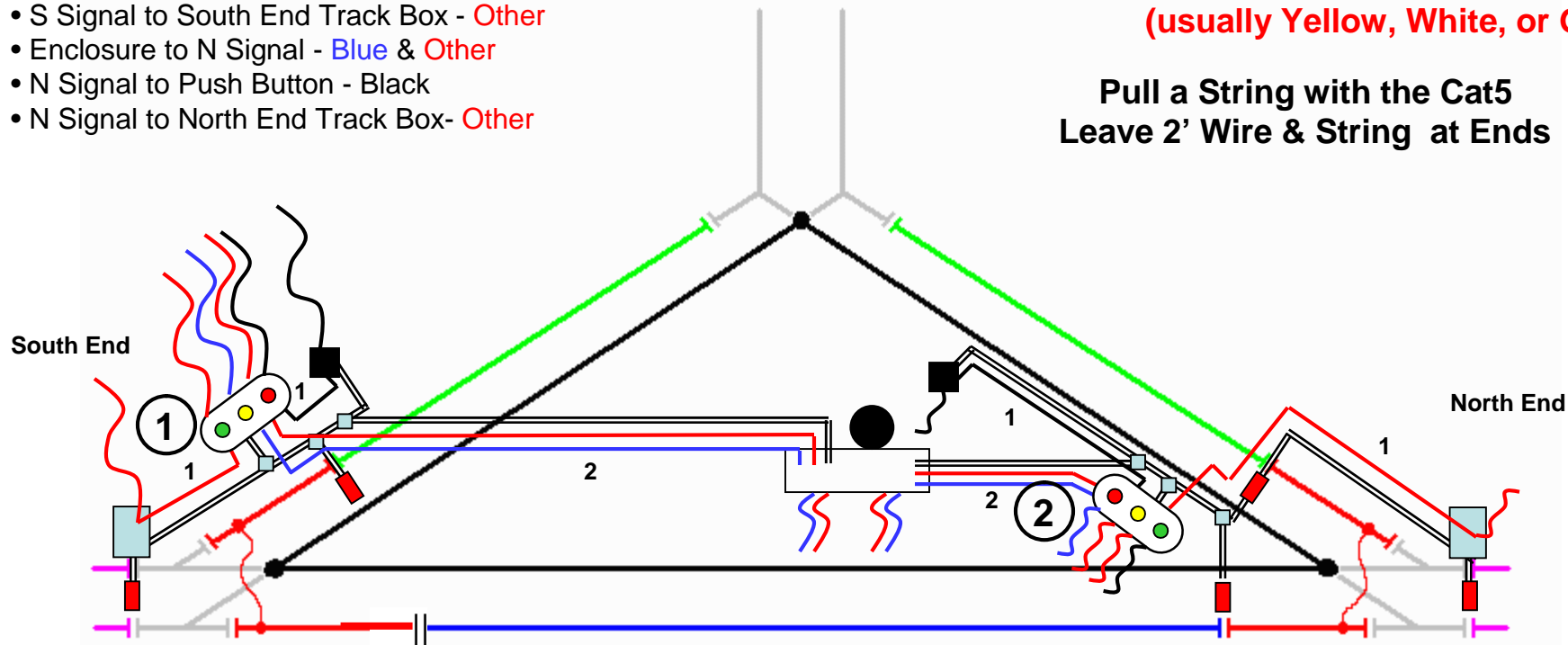
# 6. Wyes - Pull Wire

## 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

- 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**



- = Push Button
- = 2x4 Connection Box
- = Type T Box
- = Type C or LB Box to let wires out between the Rails

**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.

4/5/2009



# 6. Wyes - Pre Ballast Checklist

Where \_\_\_\_\_

By \_\_\_\_\_

Date \_\_\_\_\_

## Wye

- \_\_\_ 160' plus tail to Wye
- \_\_\_ Three 100' radius Switches

## Switch Stands

- \_\_\_ Switch Stands on all 3 Switches
- \_\_\_ Switch Stands 40' from Switch Boxes
- \_\_\_ Metal EMT Conduit & Rod in
- \_\_\_ "Back In Only" on Yellow Switch Stand Disk

## Insulators

- \_\_\_ 10 Track Insulators per diagram

## Track Boxes

- \_\_\_ 5 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

- \_\_\_ 4 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 5 Track Boxes
- \_\_\_ Connects Signals to Push Buttons
- \_\_\_ 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 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

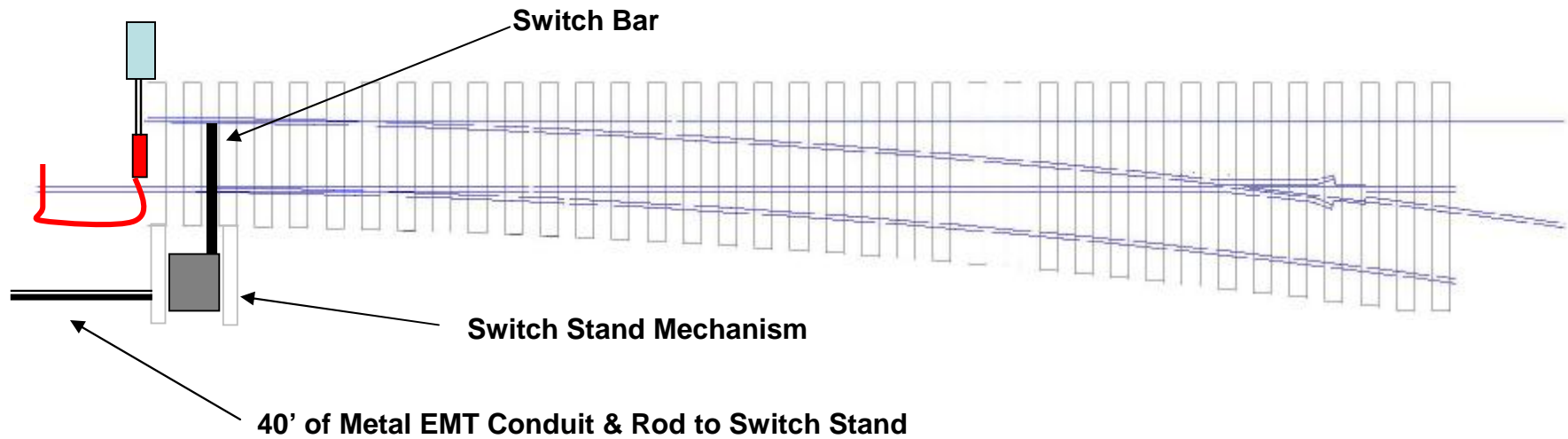
## Plywood

- \_\_\_ Plywood over Type C box

## As Builts

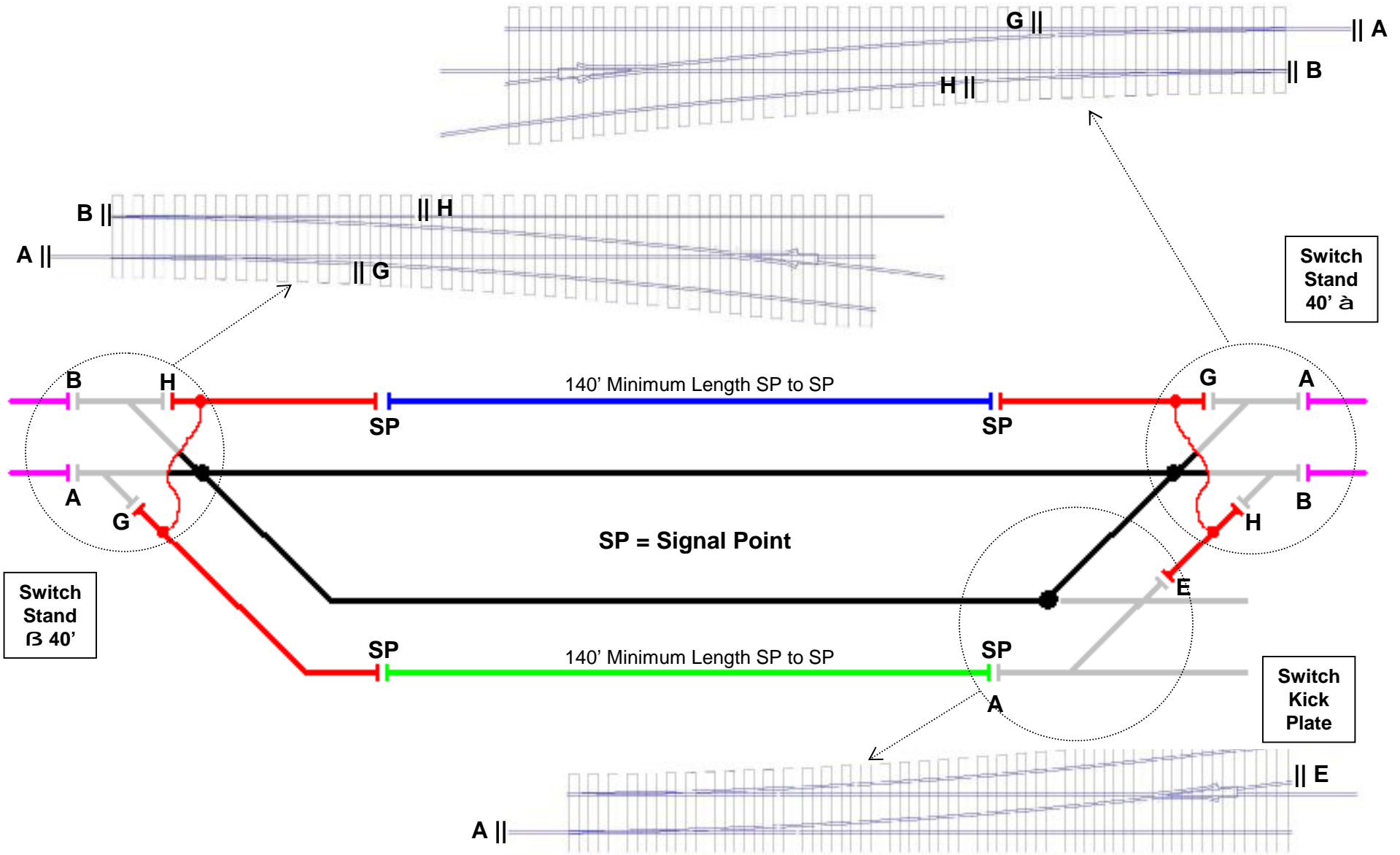
- \_\_\_ Map of Conduit
- \_\_\_ All Changes Noted
- \_\_\_ Delivered to Ross

## 7. Sidings - Install 2 Switch Stands First

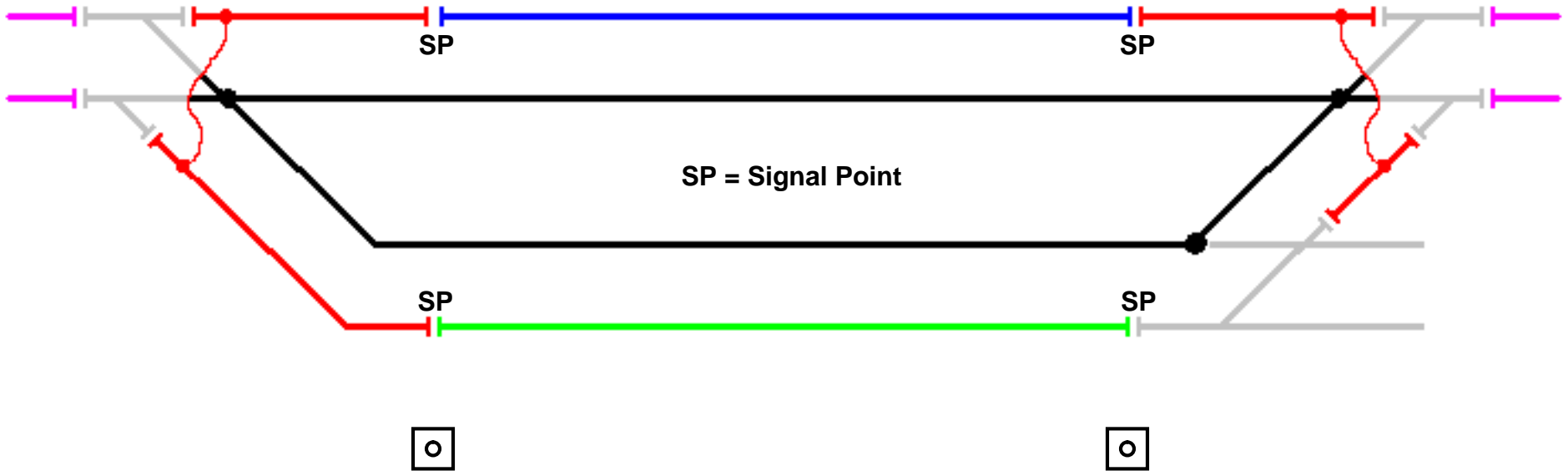


**Switch Stand Conduit normally runs away from Signal Conduit**

# 7. Siding - Install Track Insulators

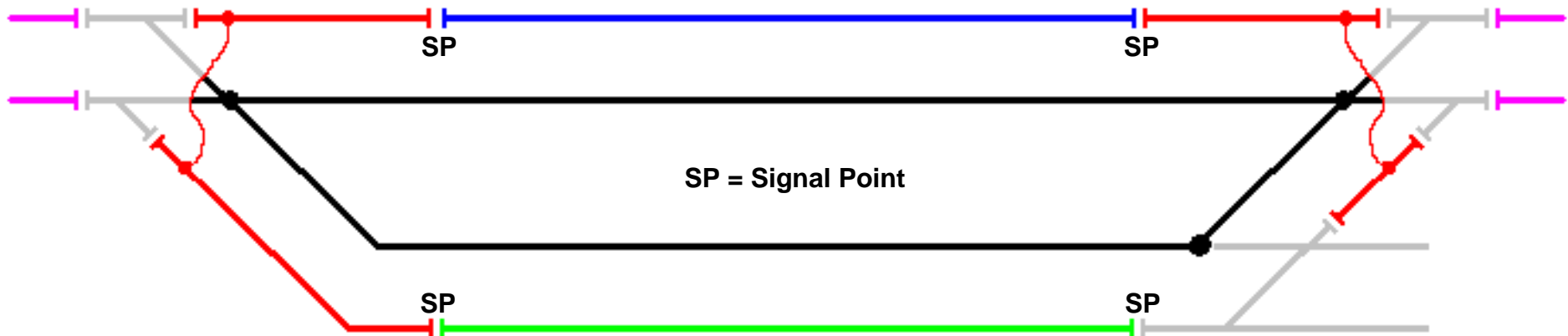


# 7. Siding - Install 2 Signal Foundations



- Signal Foundation 4' from Center Line of Track
- Conduit on top of Plastic

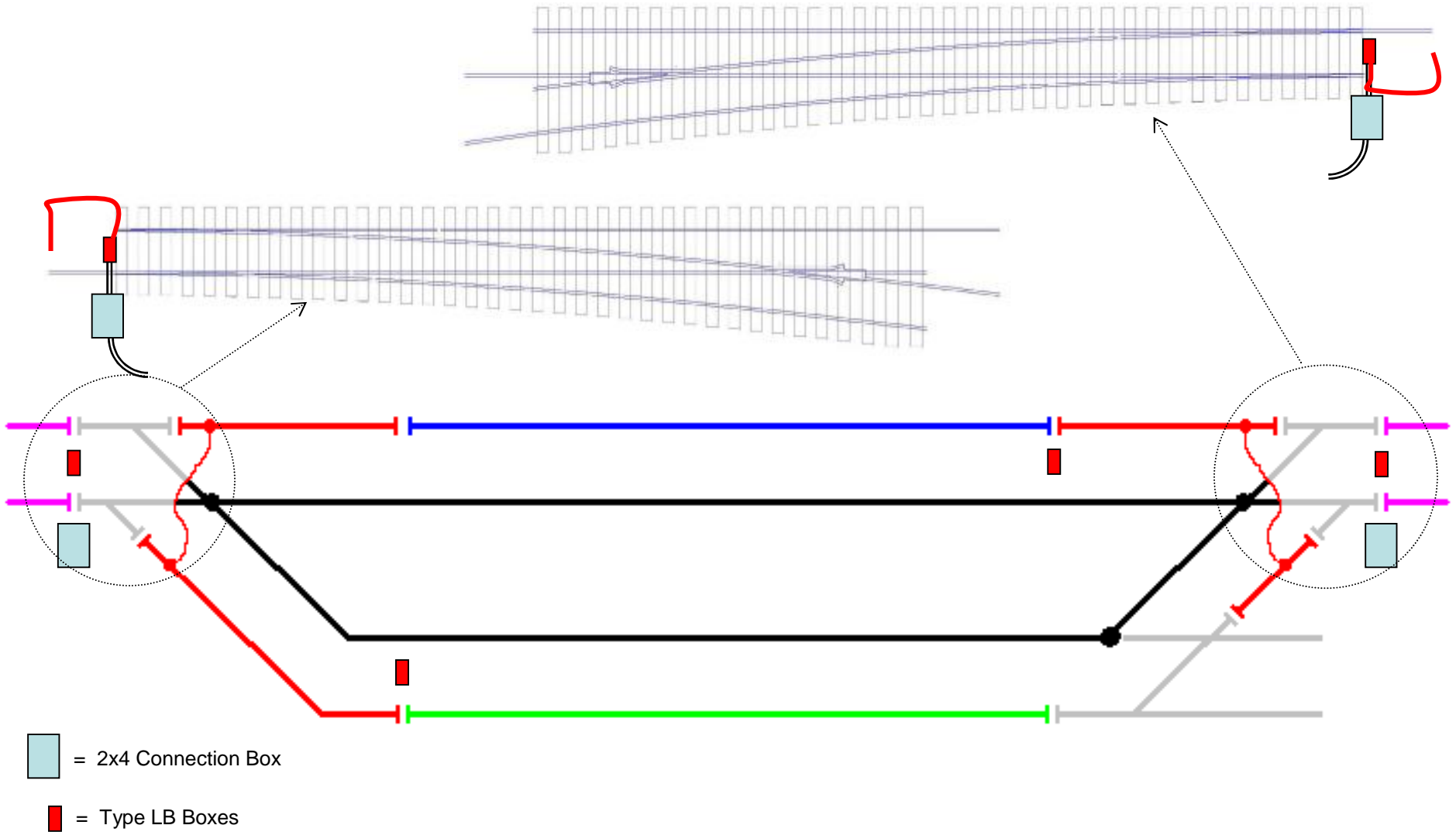
# 7. Siding - Install 2 Push Buttons



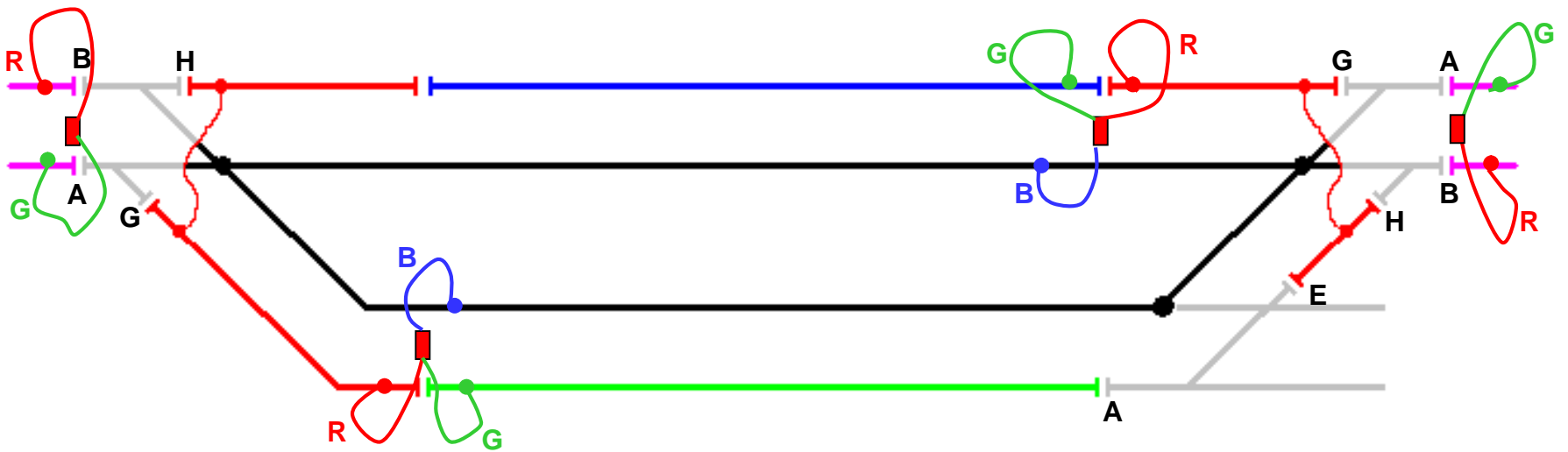
- **Push Buttons**

- 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 4 Track Boxes, 2 Flex Conduit

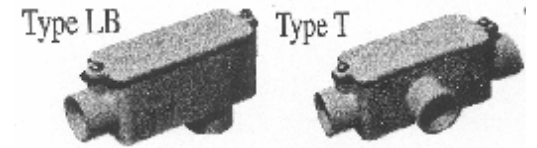


# 7. Sidings - Where the Wires Go



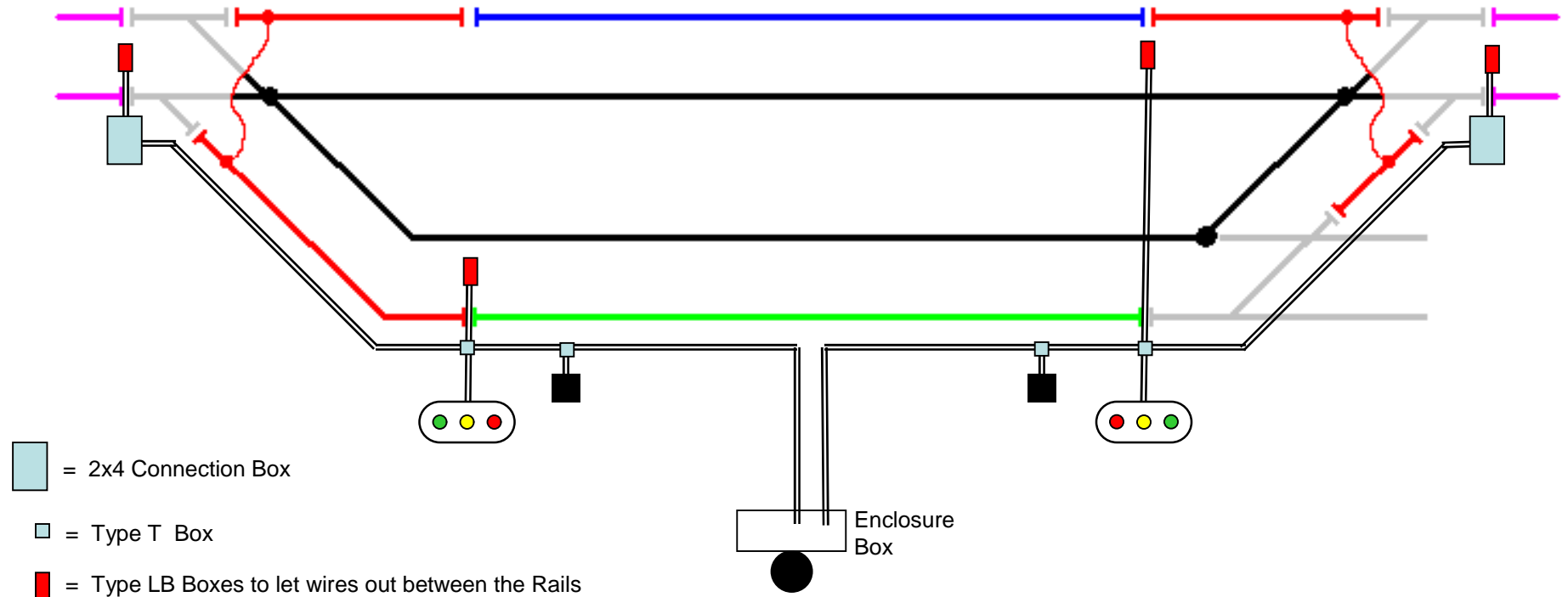
**For Your Information -- No Action required**

# 7. Siding - Install Conduit



- 4 Type LB Track Boxes
- 2 2x4 Connection Boxes

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





# 7. Siding - Pull Wire

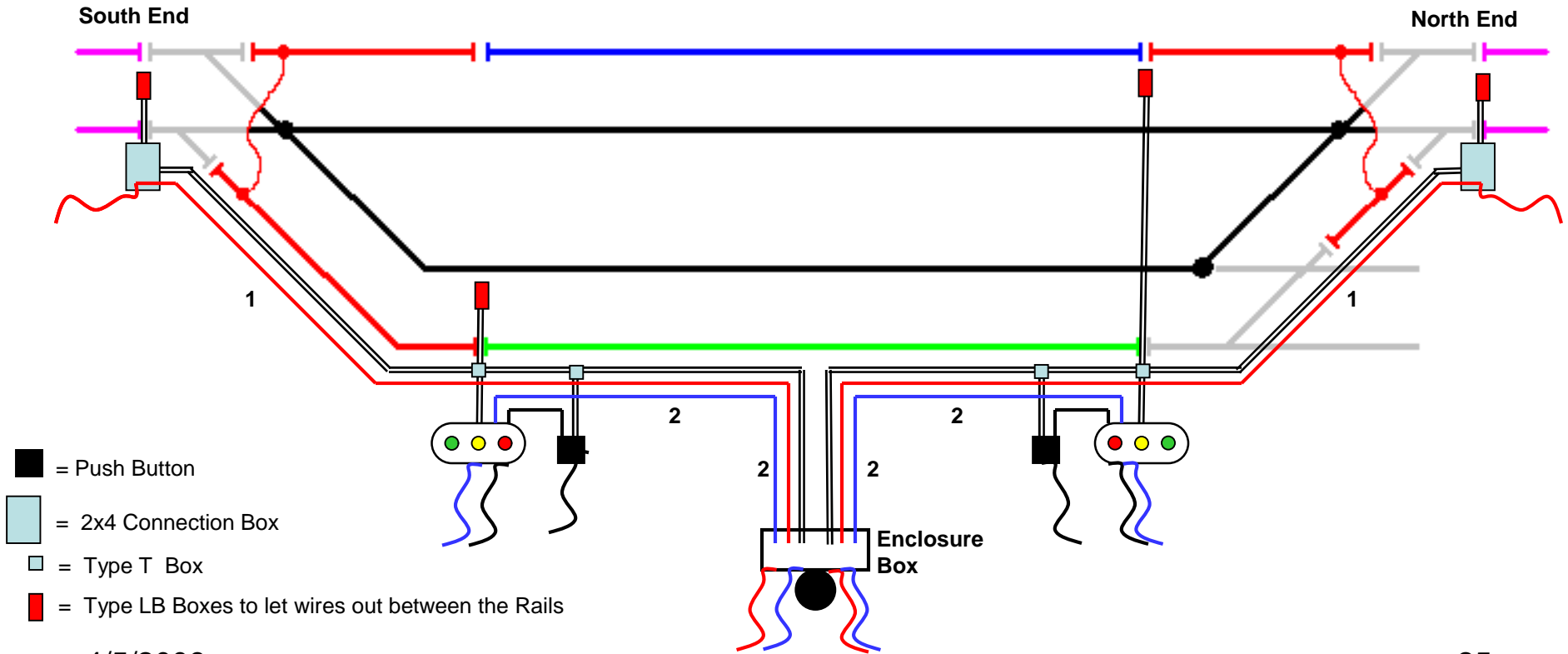
- Blue Cat5 Wire
- Black Cat5 Wire
- Other color Cat5  
(usually Yellow, White, or Grey)

## 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.



4/5/2009

# 7. Sidings - Pre Ballast Checklist

Where \_\_\_\_\_

By \_\_\_\_\_

Date \_\_\_\_\_

## 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 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 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

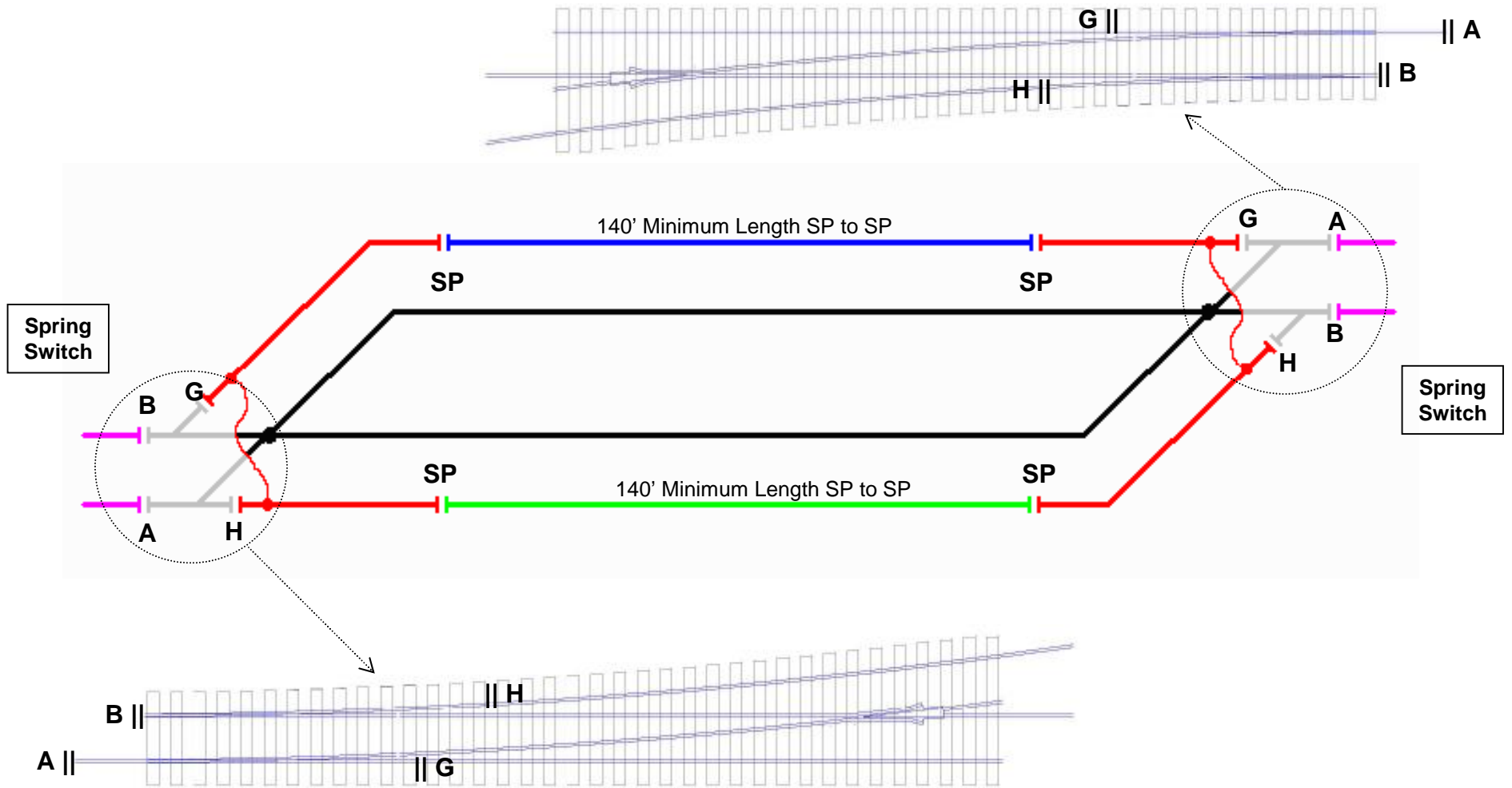
## As Built

- \_\_\_ Map of Conduit
- \_\_\_ All Changes Noted
- \_\_\_ Delivered to Ross

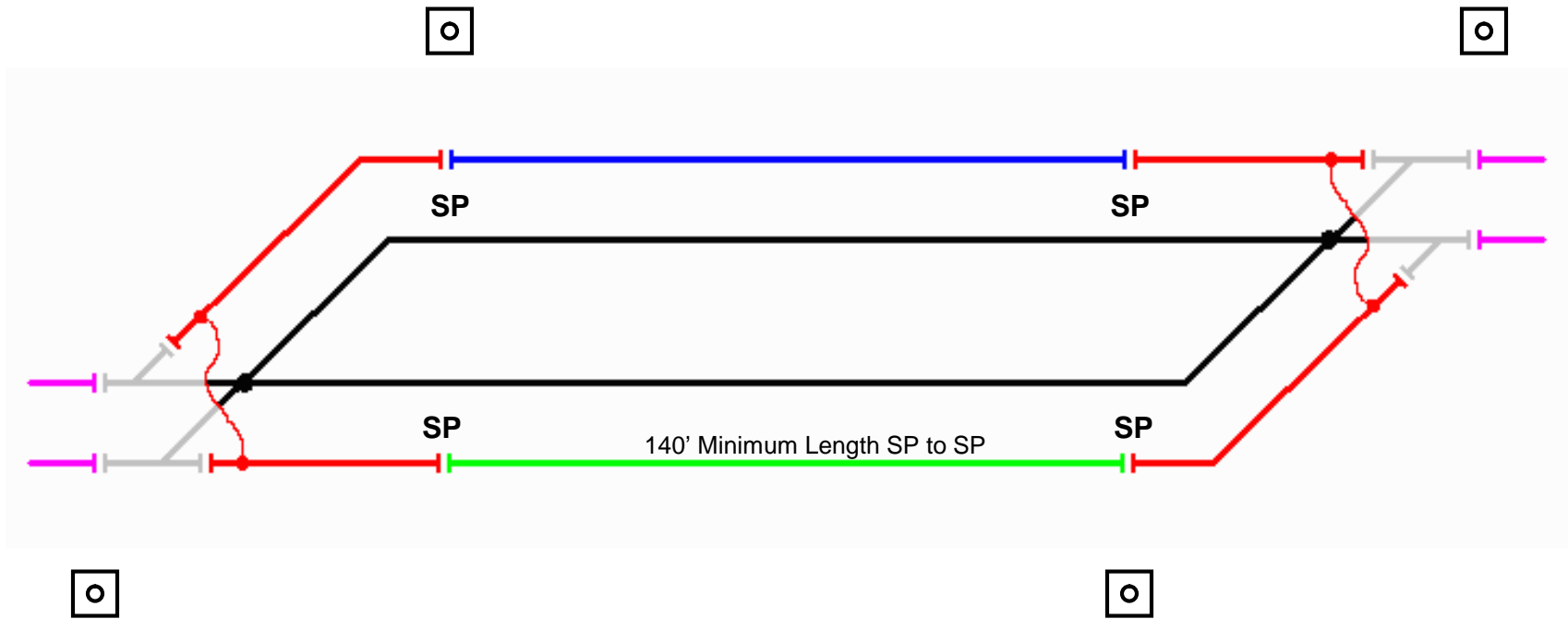
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# 8. Mainline Meet Track - Track Insulators



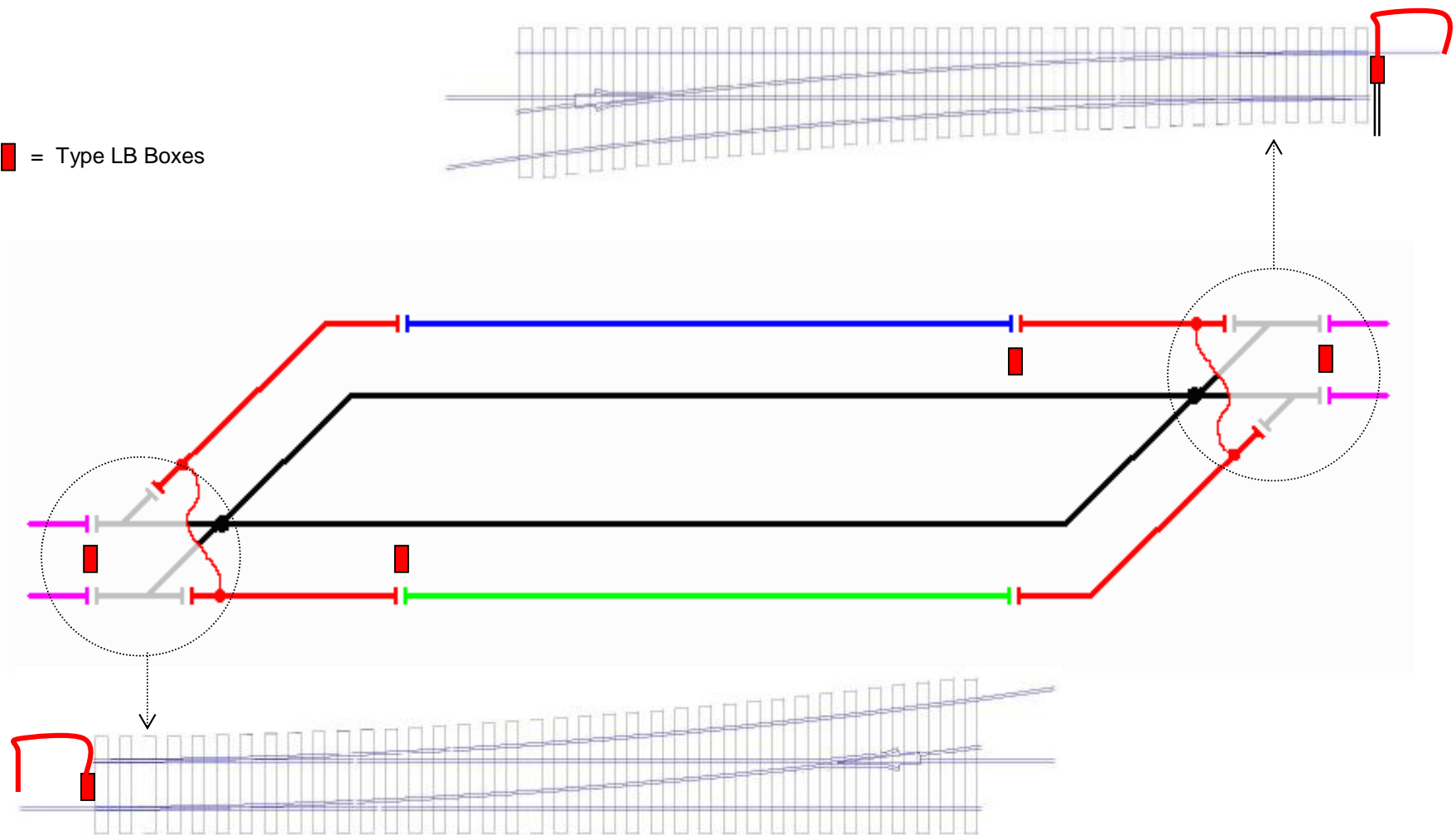
## 8. Mainline Meet Track - Install 4 Signal Foundations



- Signal Foundation 4' from Center Line of Track
- Conduit on top of Plastic

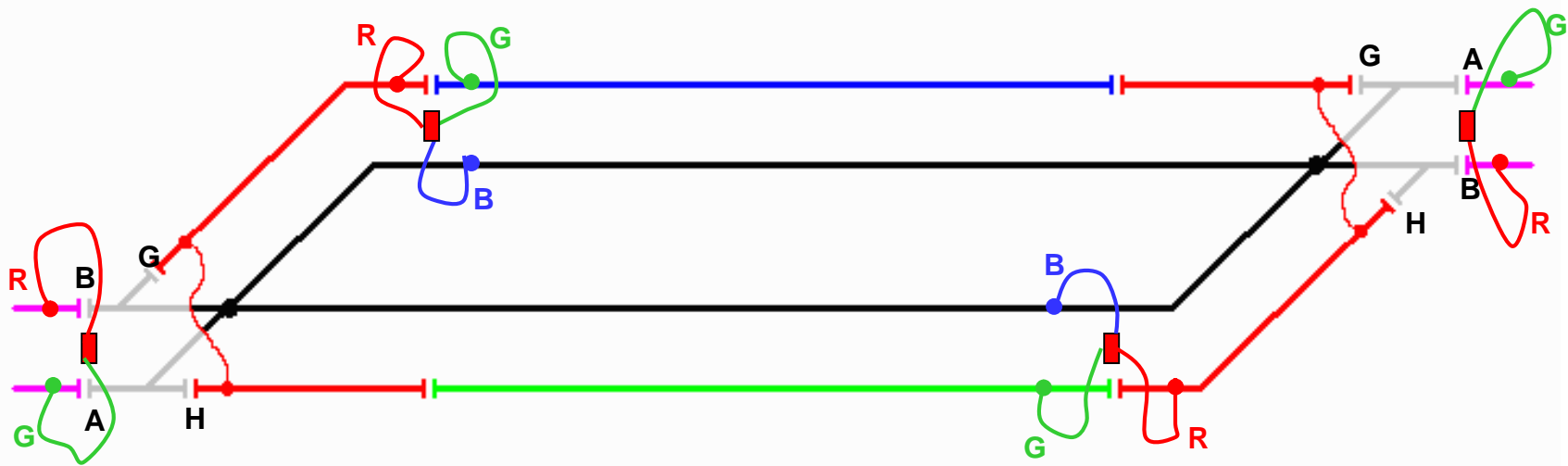
# 8. Mainline Meet Track - Install 4 Track Boxes and 2 Flex Conduits

■ = Type LB Boxes



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# 8. Mainline Meet Track - Where the Wires Go

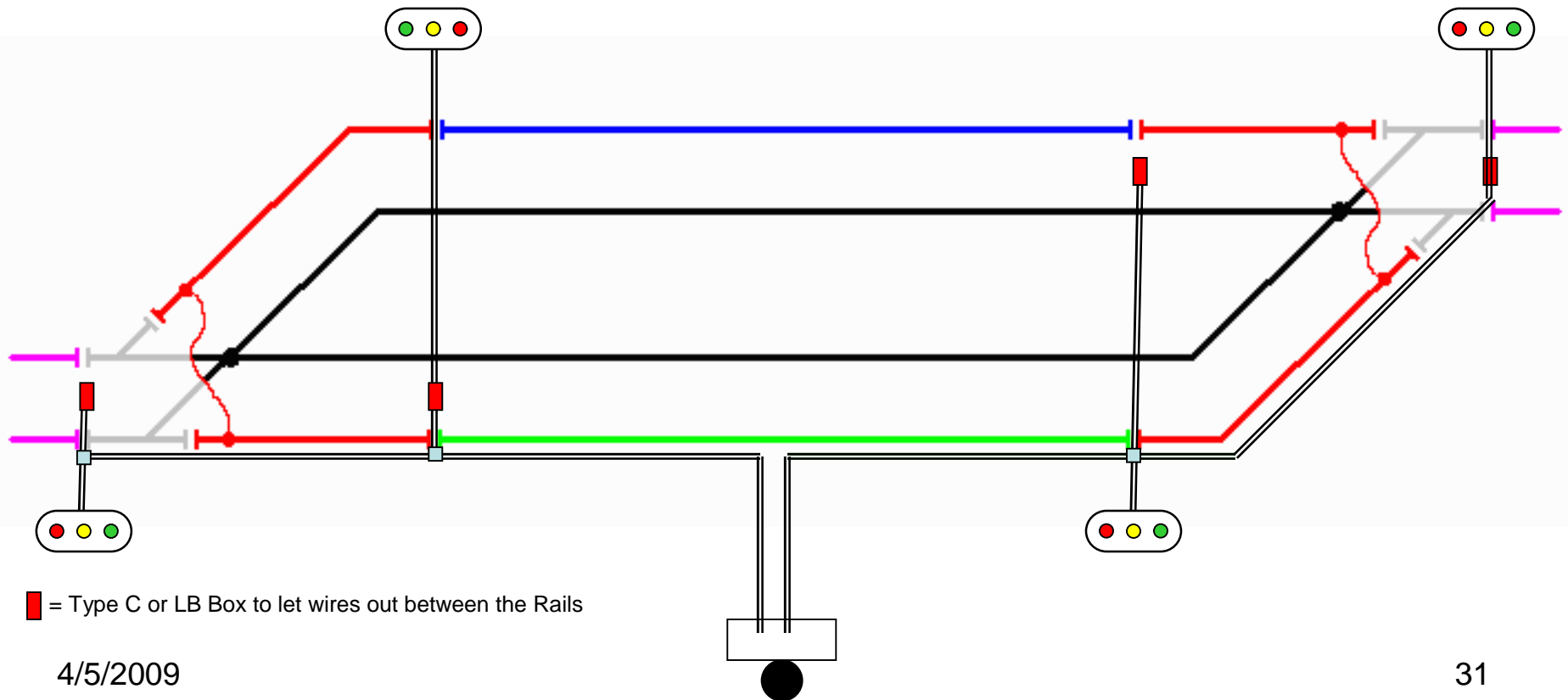
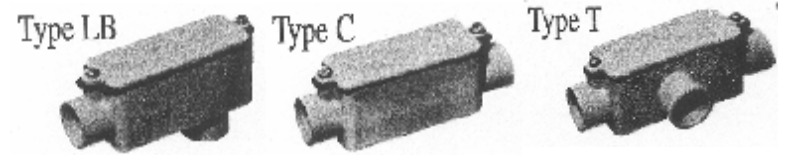


**For Your Information -- No Action required**

# 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



# 8. Mainline Meet Track - Pull Wire

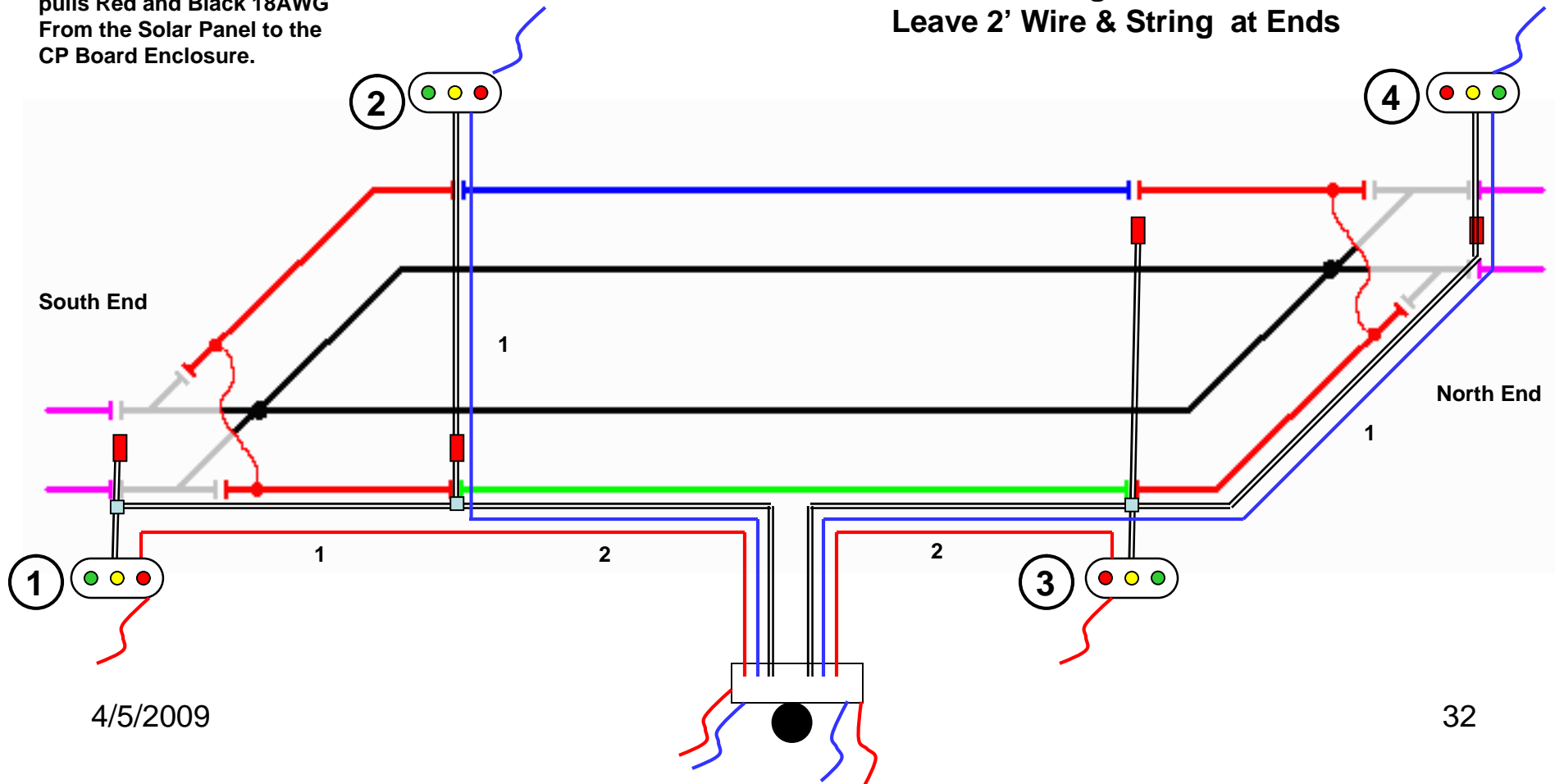
Note : The Track Team pulls all the wire that goes through an Expansion Joint. The Signal Team pulls the rest of the wire which includes all the 18 AWG wire. If there is a Remote Solar Panel, the Track Team pulls Red and Black 18AWG From the Solar Panel to the CP Board Enclosure.

## 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

Where \_\_\_\_\_

By \_\_\_\_\_

Date \_\_\_\_\_

4/5/2009

## 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

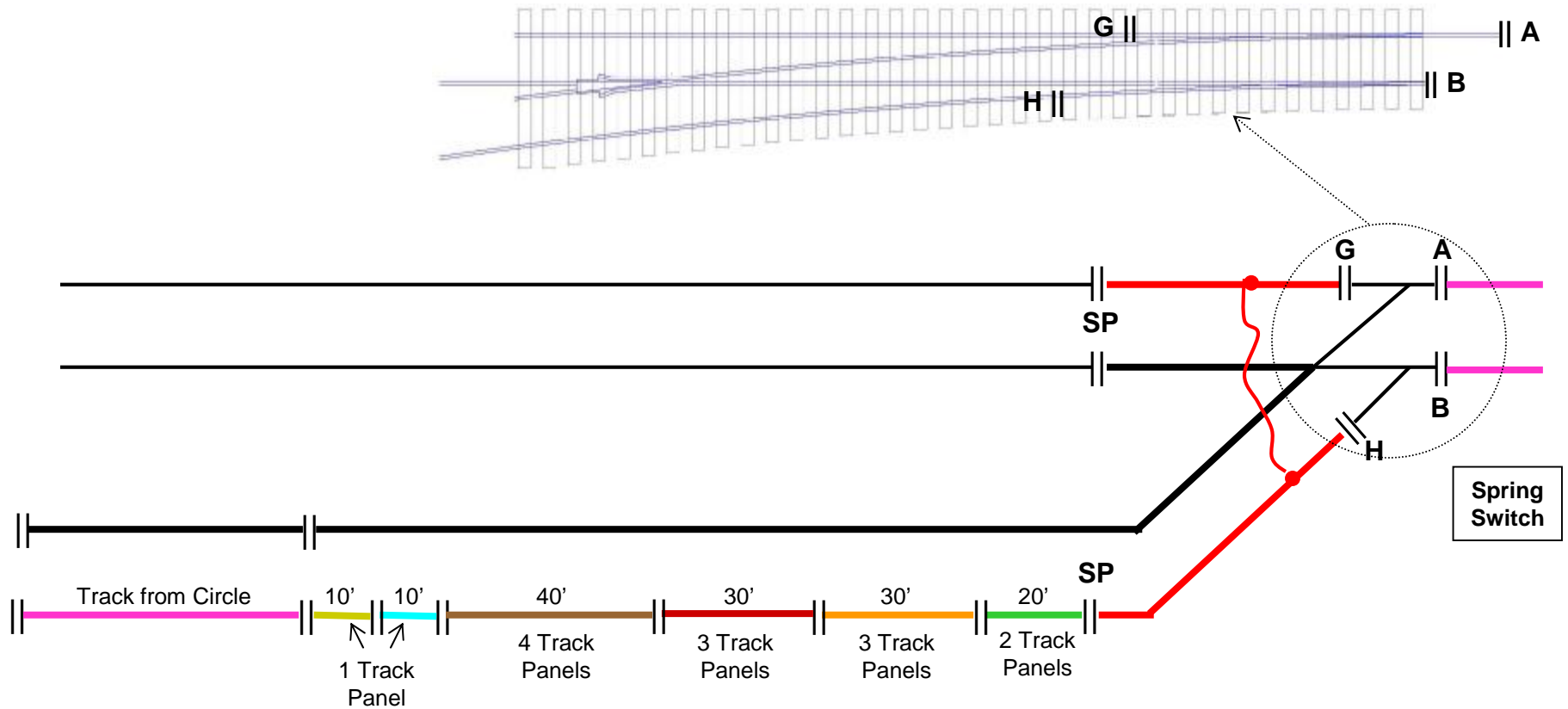
## Plywood

- Plywood over Type C box

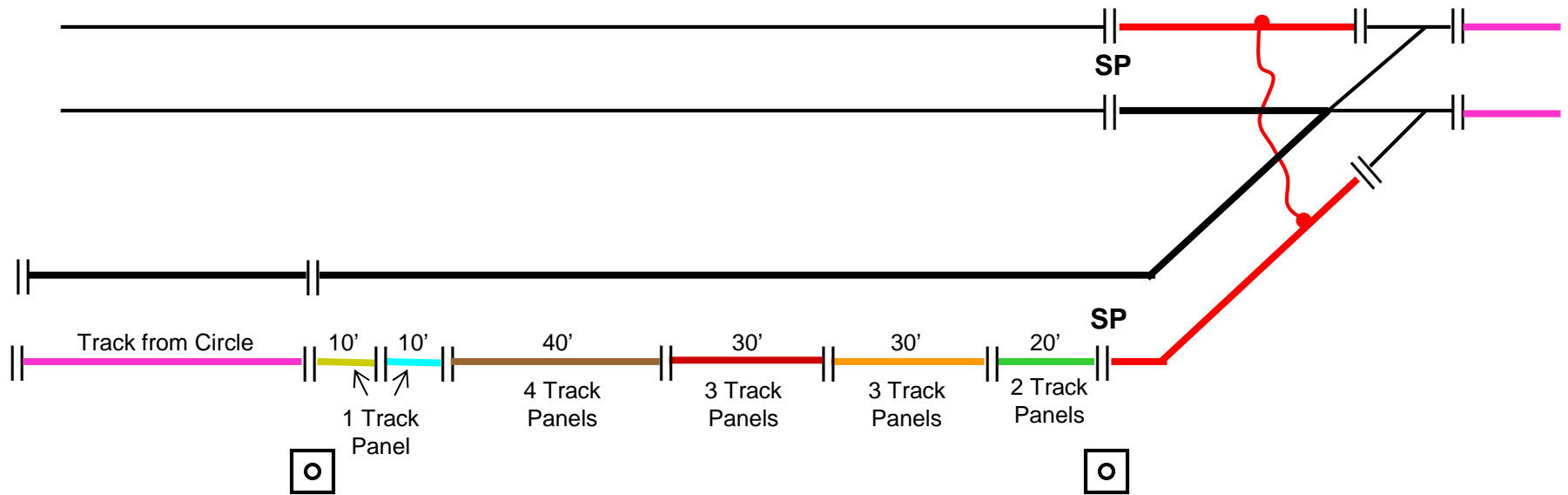
## As Built

- Map of Conduit
- All Changes Noted
- Delivered to Ross

# 9. Queuing Track - Install Track Insulators




# 9. Queuing Track - Install 2 Signal Foundations

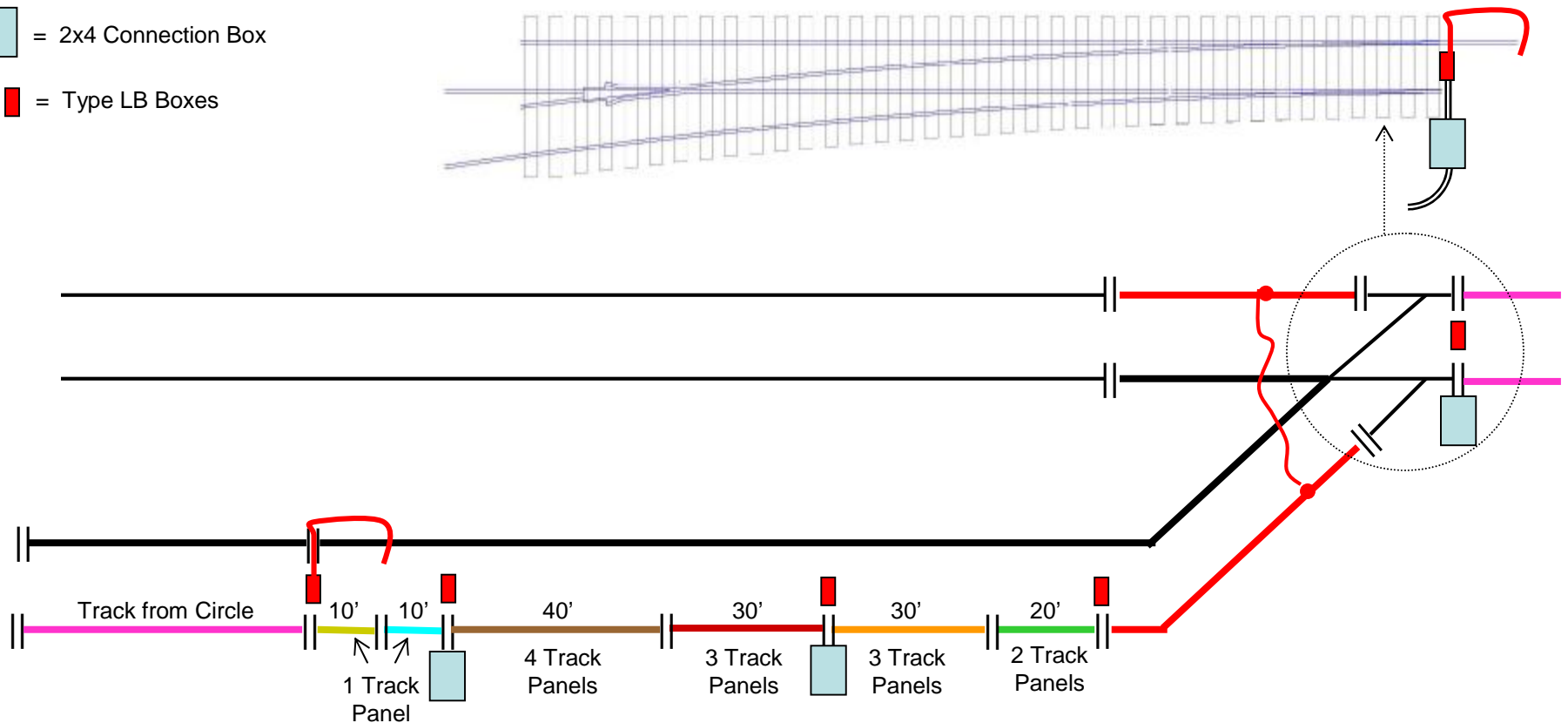


- Signal Foundation 4' from Center Line of Track
- Conduit on top of Plastic

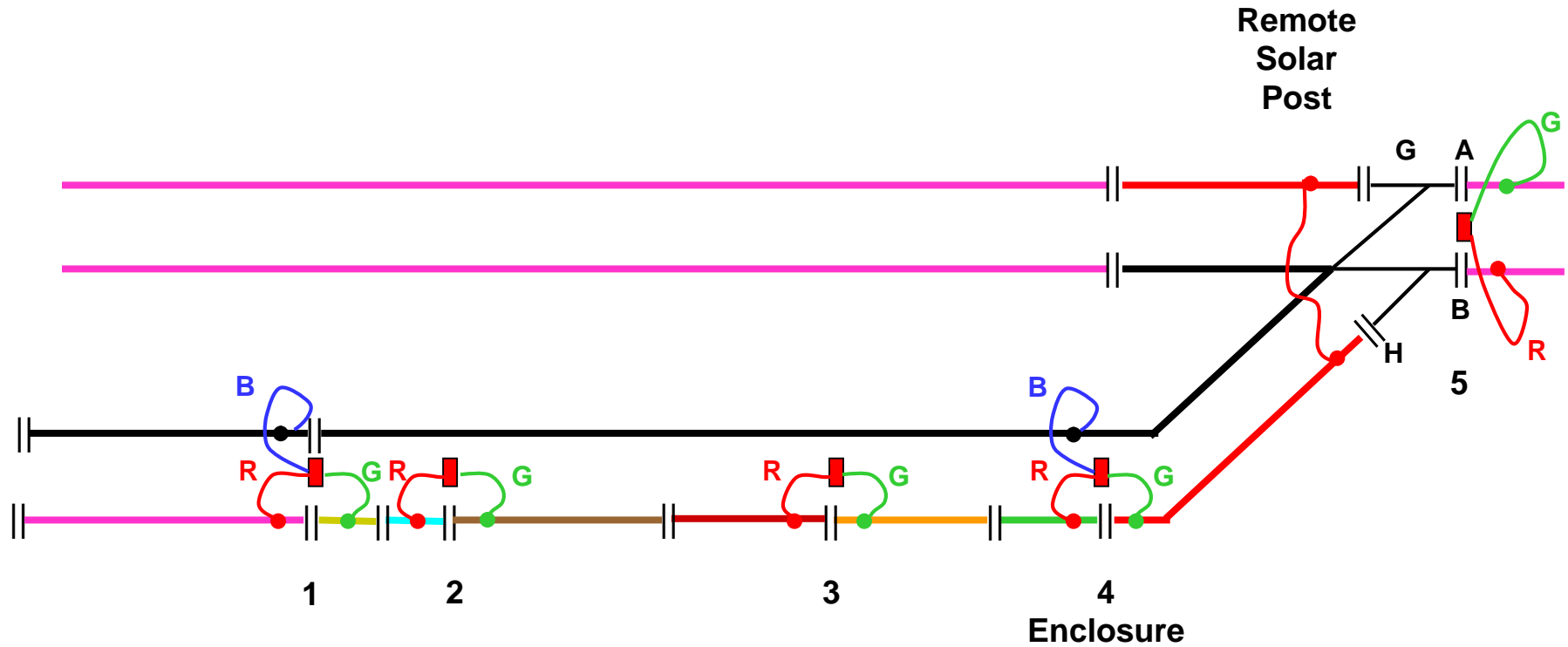
# 9. Queuing Track - Install 5 Track Boxes and 2 Flex Conduits

 = 2x4 Connection Box

 = Type LB Boxes



# 9. Queuing Track - Where the Wires Go



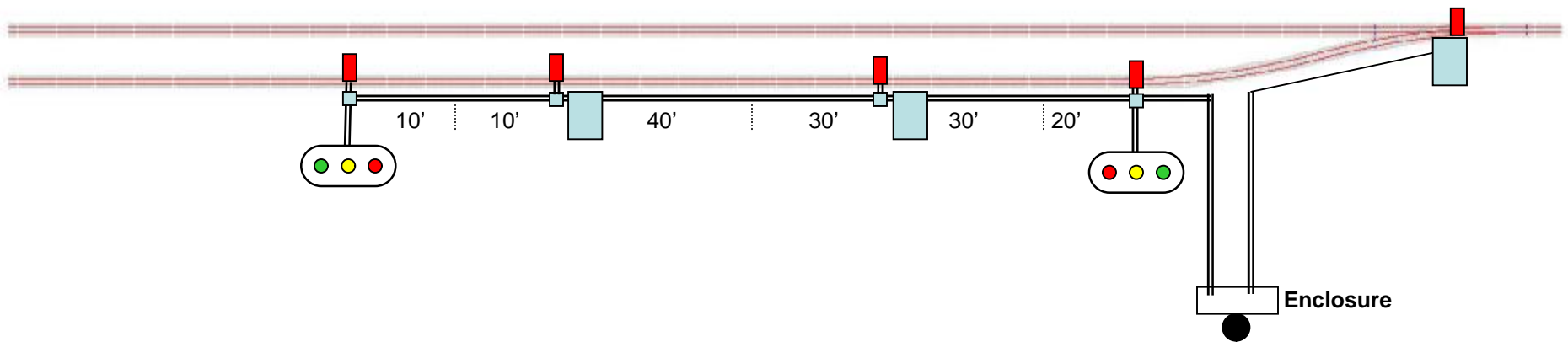
For Your Information -- No Action required

# 9. Queuing Track - Install Conduit

- 5 Type LB or C Track Boxes
- 3 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 C or LB Box to let wires out between the Rails

4/5/2009

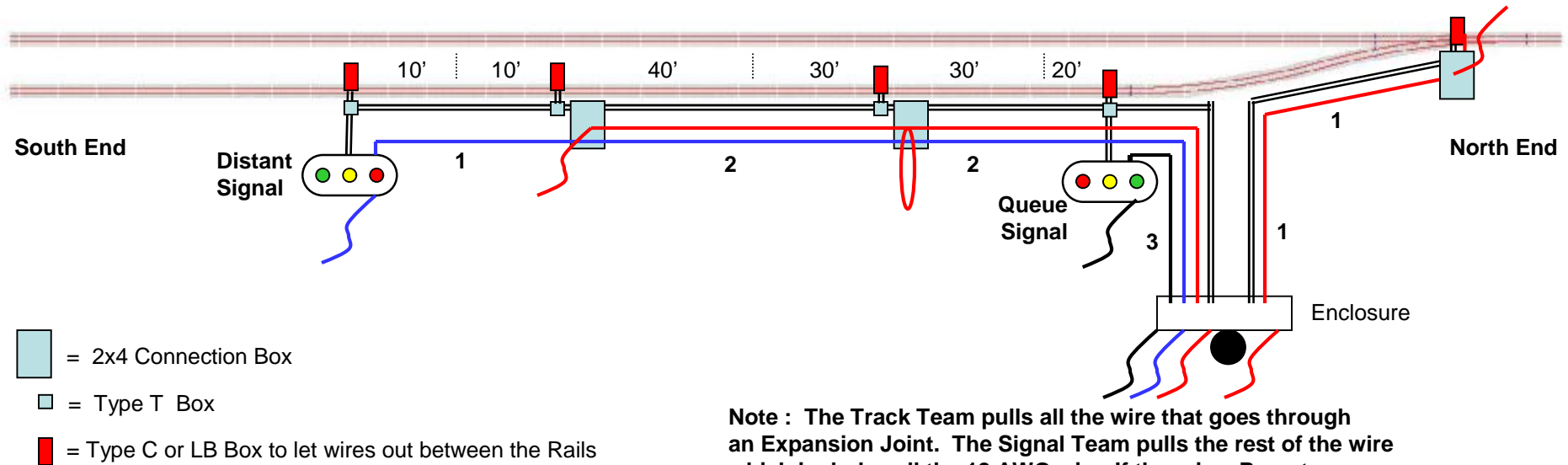
# 9. Queuing Track - Pull Wire

## Cat5 Pulls

- Enclosure to Queue Signal - Black
- Enclosure to N Track Box - Other
- Enclosure to Dist Signal - Blue & Other
- 6" Loops of wire in 2 Track Connection Boxes

- 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**



**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.

4/5/2009

# 9. Queuing Tracks - Pre Ballast Checklist

## Queuing Track

- \_\_\_ 140' plus to Signal Point
- \_\_\_ Two 100' radius Switches

## Spring Switches

- \_\_\_ 1 Spring Switch

## Insulators

- \_\_\_ 10 Track Insulators per diagram

## Track Boxes

- \_\_\_ 5 Track Boxes
- \_\_\_ All Type C or Type LB
- \_\_\_ All on 2" pieces of conduit

## Connection Boxes

- \_\_\_ 3 or more 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

Where \_\_\_\_\_

By \_\_\_\_\_

Date \_\_\_\_\_

## Flex Conduit

- \_\_\_ Flex Conduits per diagram

## Conduit

- \_\_\_ Enclosure to Dist Signal
- \_\_\_ Enclosure to Queue Signal
- \_\_\_ Enclosure to Remote Solar Panel (If Any)
- \_\_\_ Connects to 5 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 Queuing Signal - Black
- \_\_\_ Enclosure to N Track Box - Other
- \_\_\_ Enclosure to Dist Signal - Blue & Other
- \_\_\_ String in every Conduit
- \_\_\_ 2' wire & string at each end

## Wire Pull - If Remote Solar Panel

- \_\_\_ Red 18AWG wire
- \_\_\_ Black 18AWG wire
- \_\_\_ String
- \_\_\_ 2' wire & string at each end

## Plywood

- \_\_\_ Plywood over Type C box

## As Built

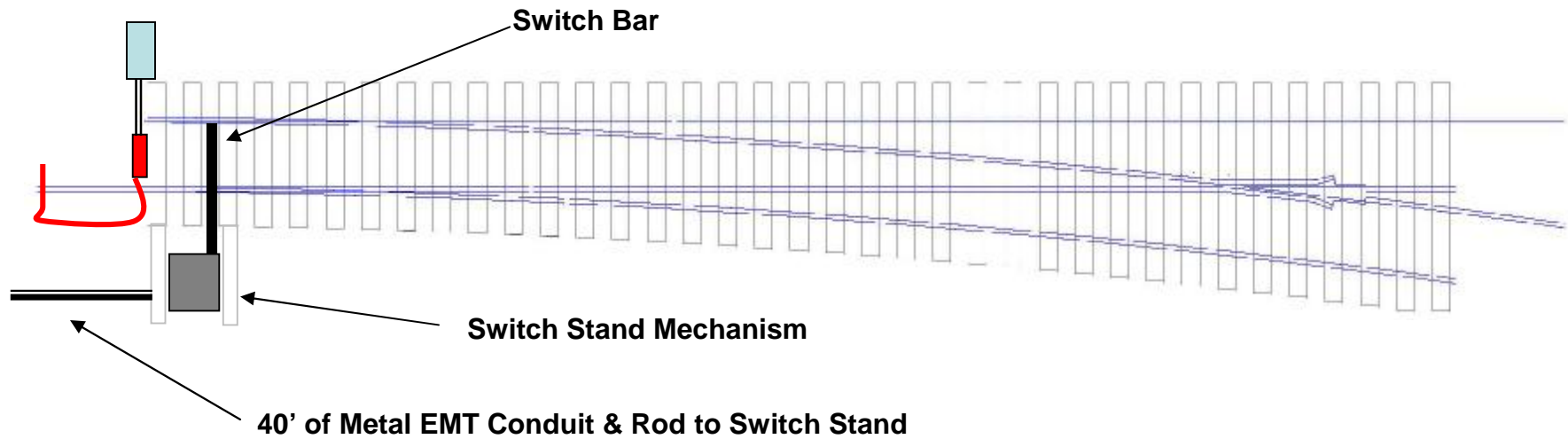
- \_\_\_ Map of Conduit
- \_\_\_ All Changes Noted
- \_\_\_ Delivered to Ross

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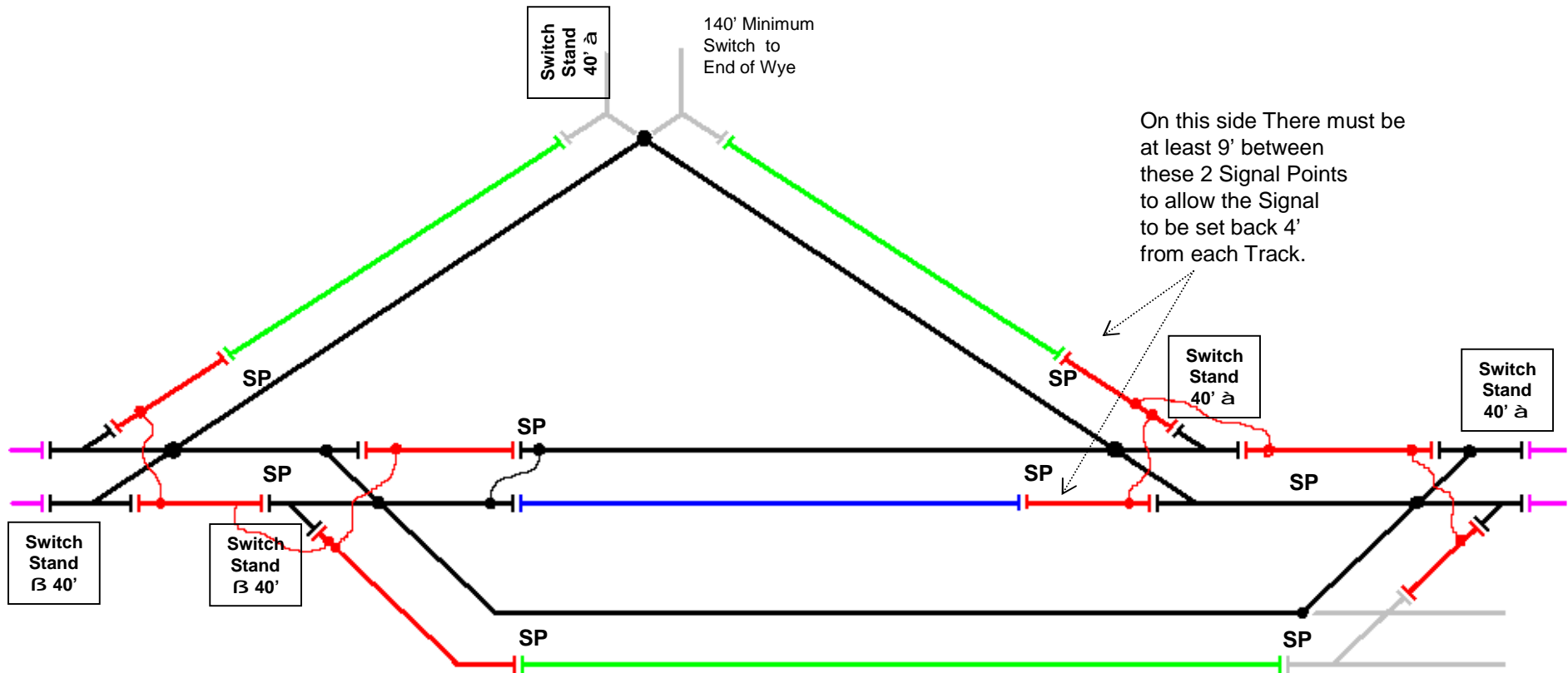


# 10. Witcombe - Install 4 Switch Stands First

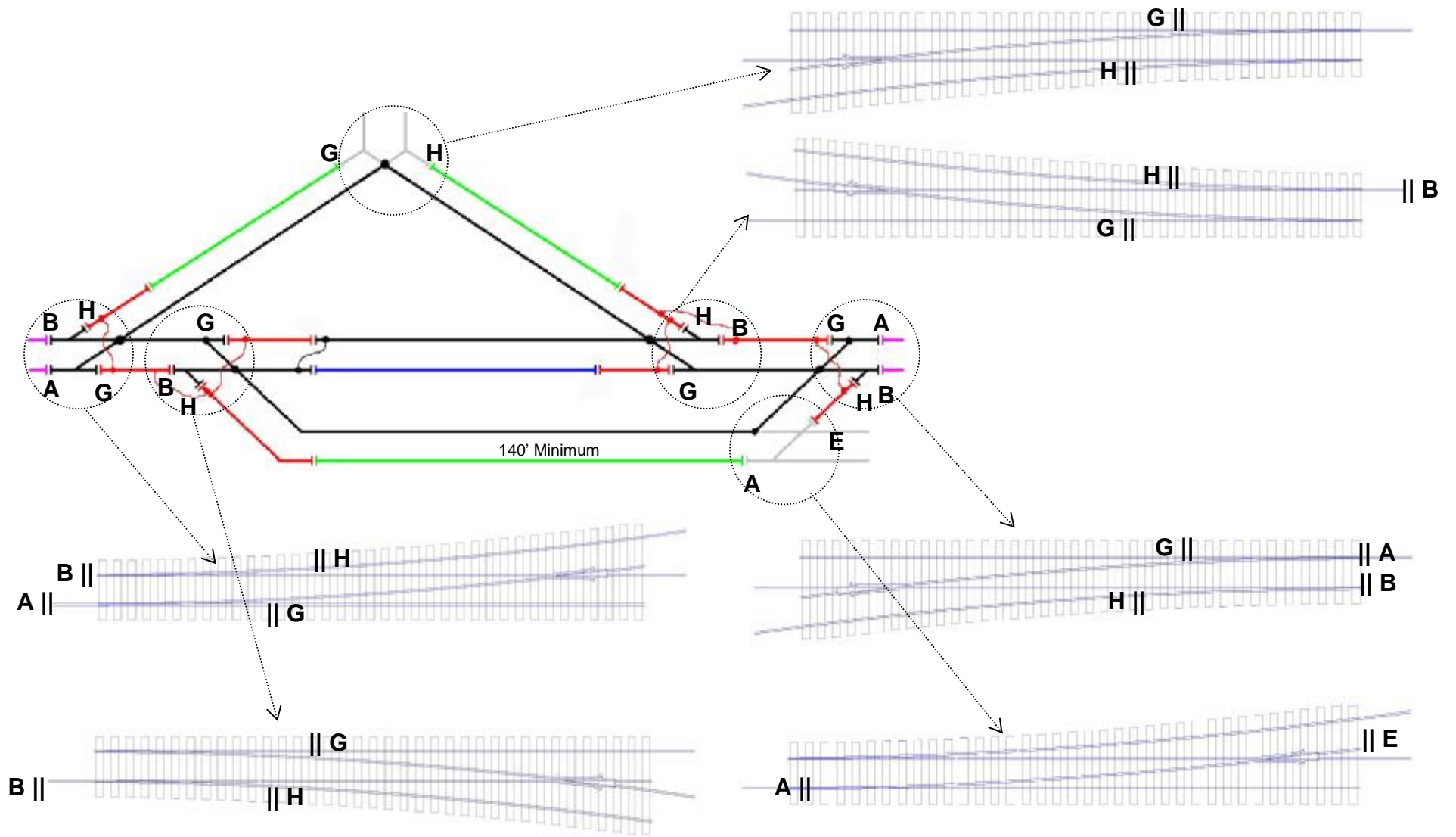


**Switch Stand Conduit normally runs away from Signal Conduit**

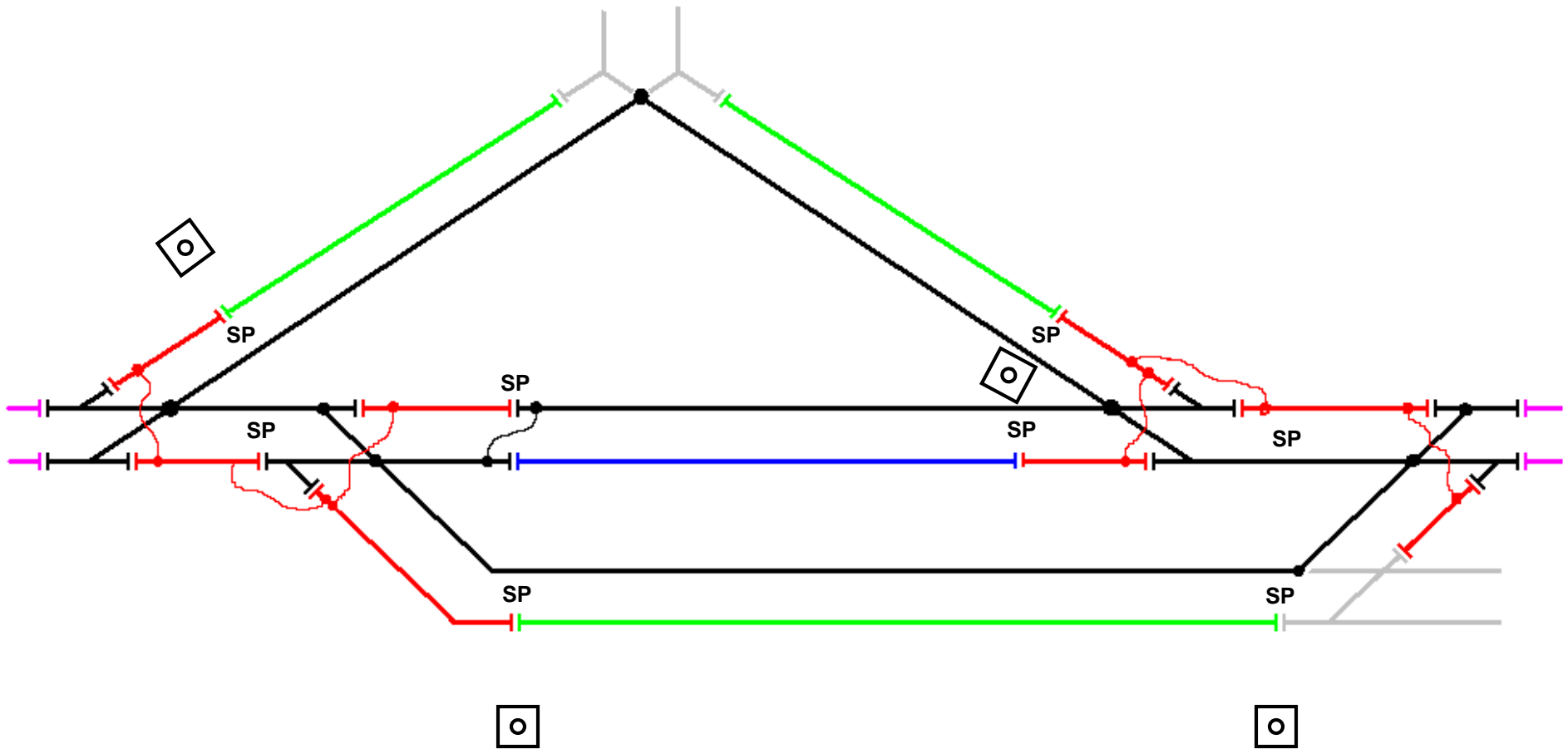
# 10. Witcombe - Design



# 10. Witcombe - Install 18 Track Insulators

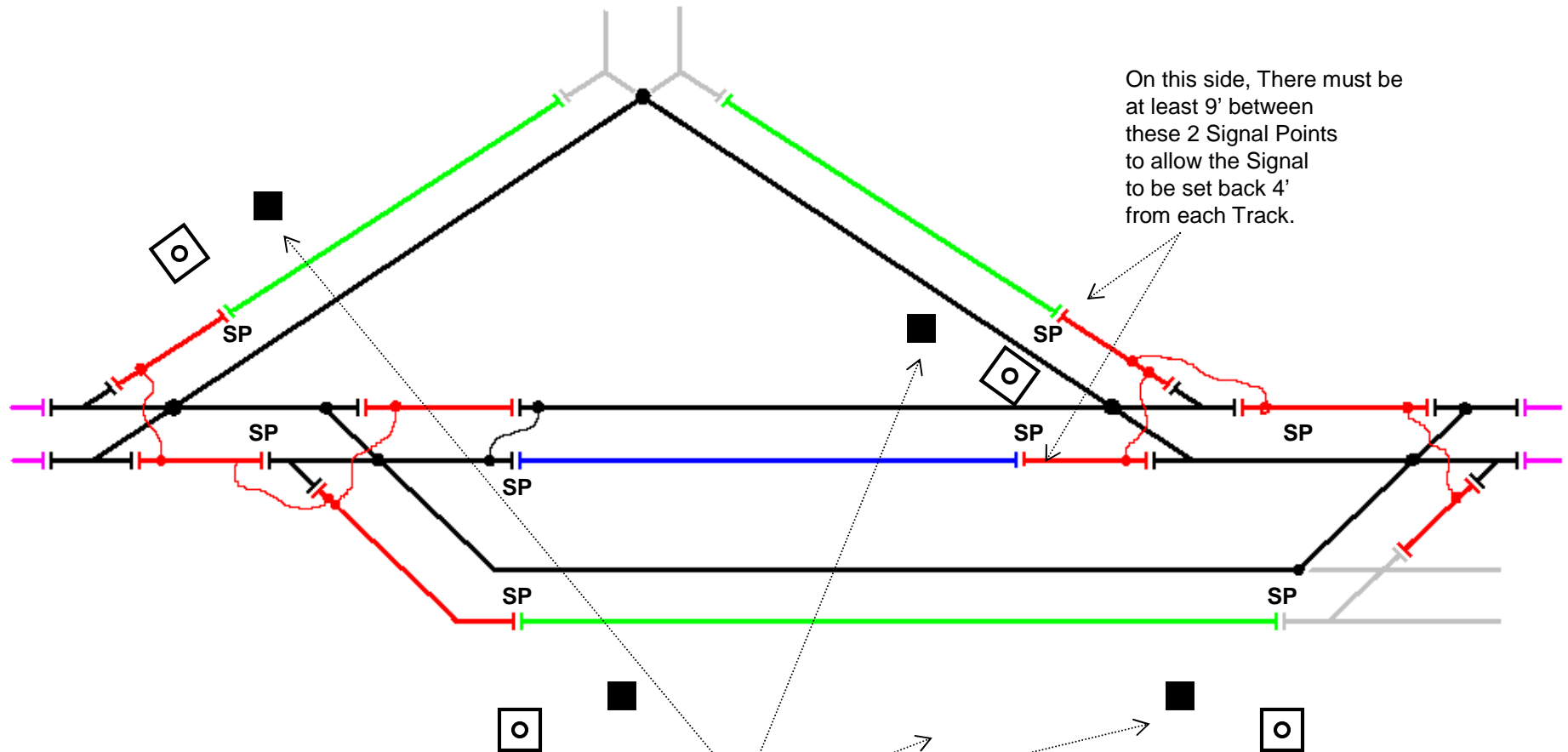


# 10. Witcombe - Install 4 Signal Foundations



- Signal Foundation 4' from Center Line of Track
- Conduit on top of Plastic


# 10. Witcombe - Install 4 Push Buttons



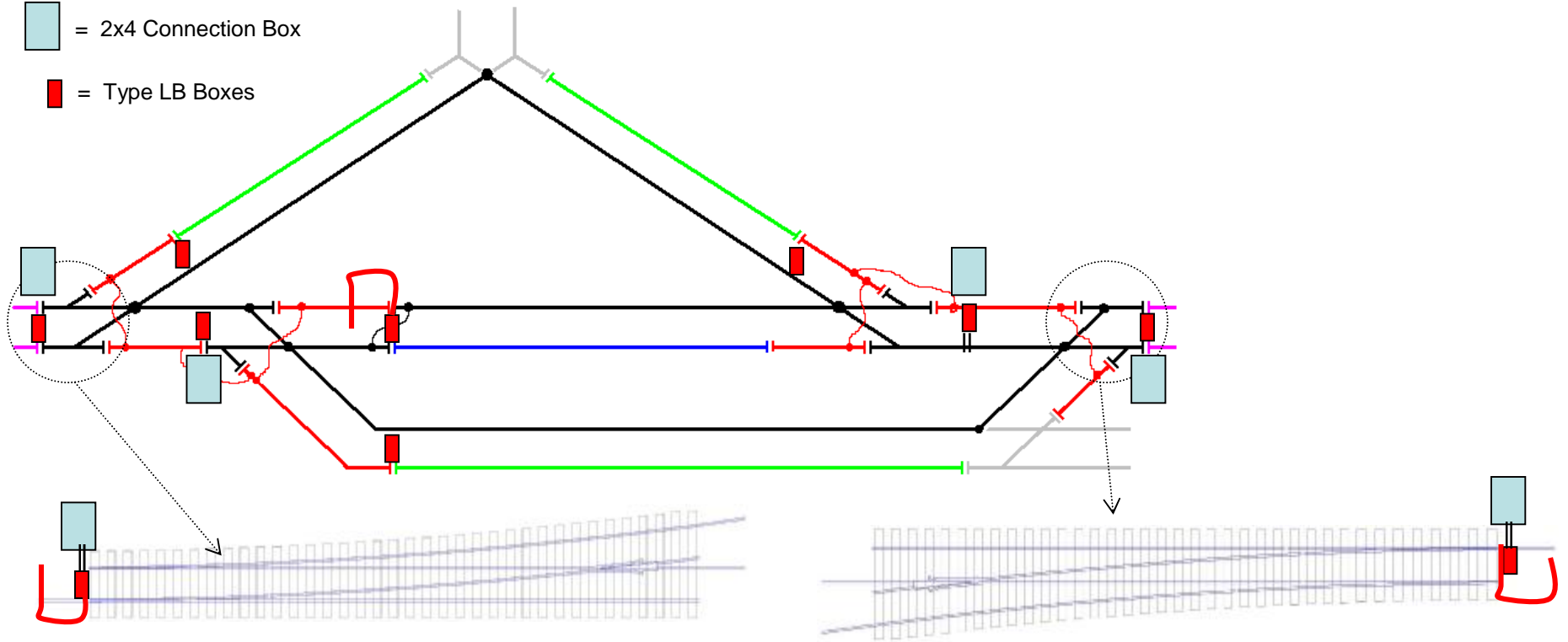
- **Push Buttons**

- 40' from Signal Foundation
- Post 27" from center line track
- All parts 24"+ from center line track
- 5' Post, Set in Concrete, 3' above ground
- Bottom out of round so it won't rotate

# 10. Witcombe - Install 8 Track Boxes and 3 Flex Conduits

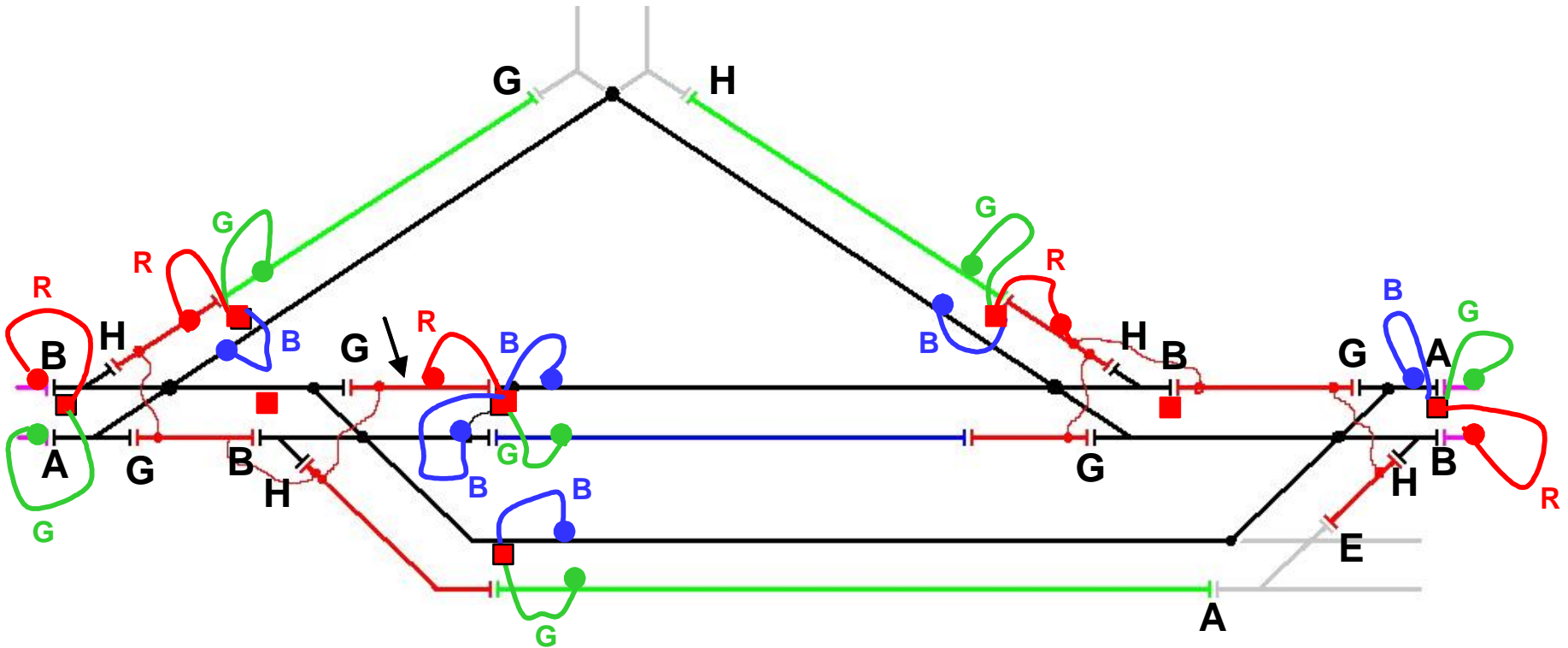
 = 2x4 Connection Box

 = Type LB Boxes



# 10. Witcombe - Where the Wires Go

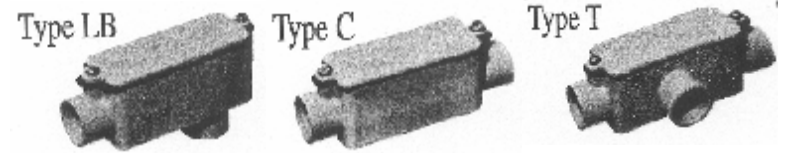
|| = Insulated Joint



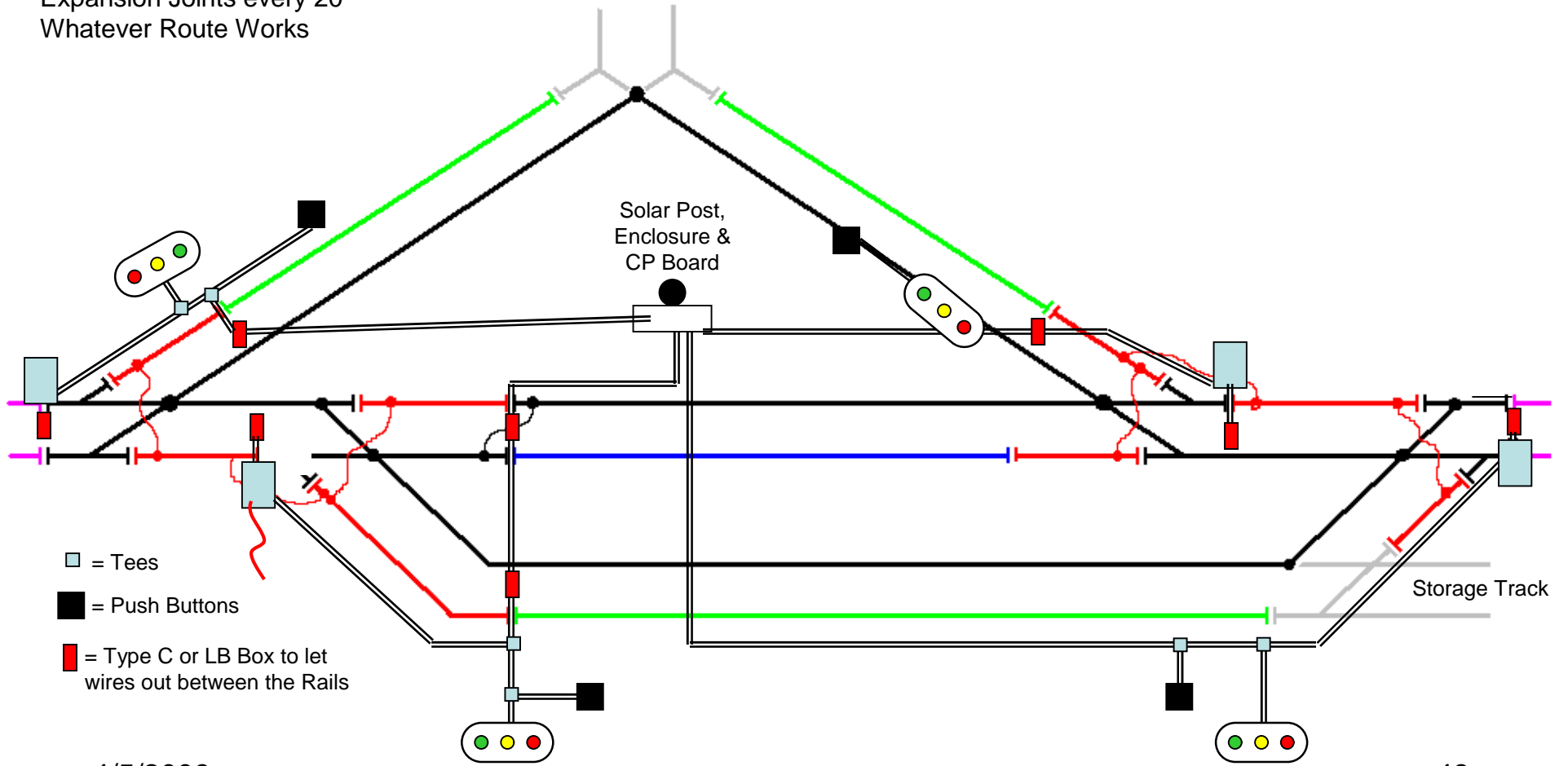
**For Your Information -- No Action required**

# 10. Witcombe - Install Conduit

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



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



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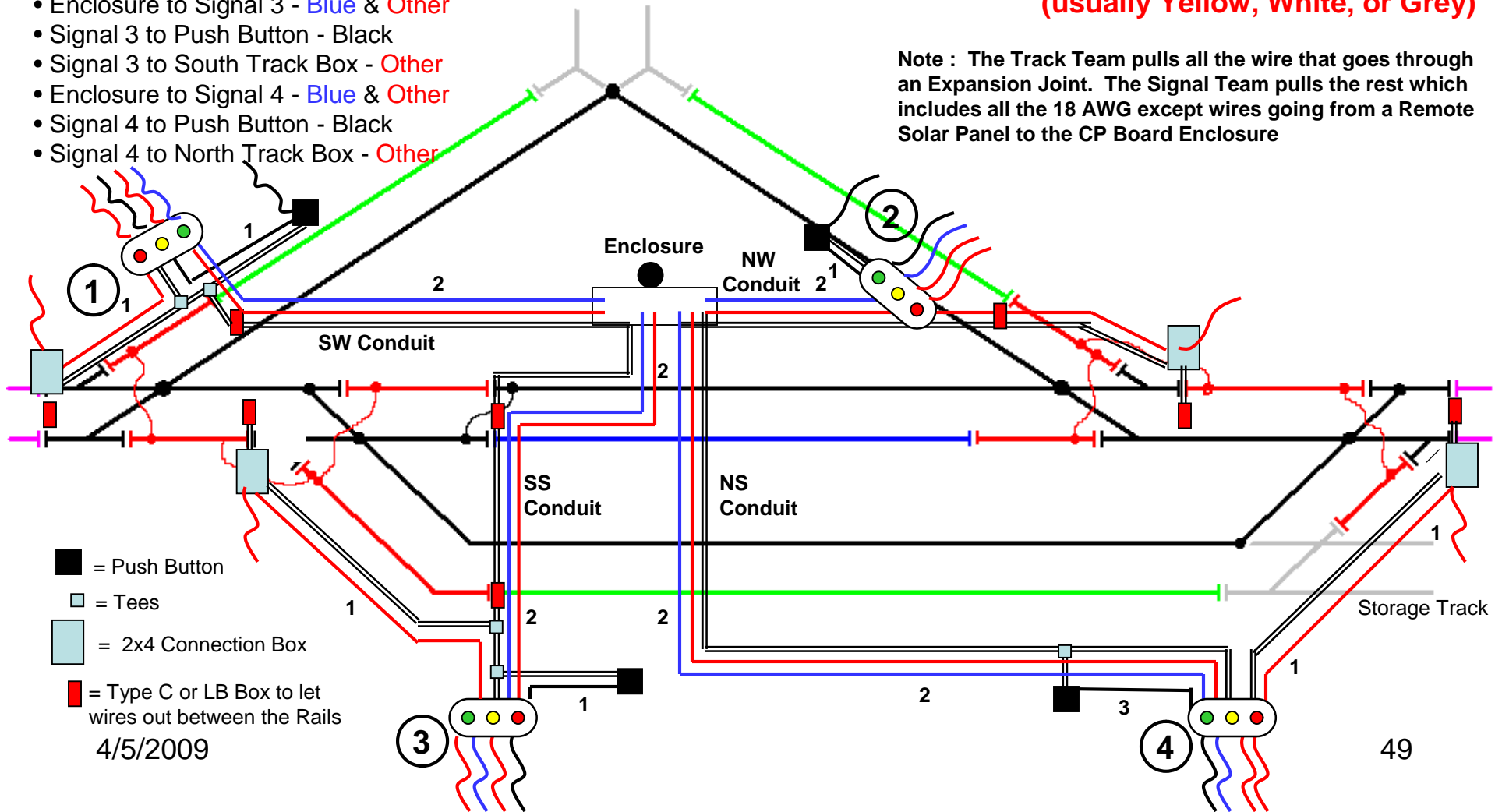
# 10. Witcombe - Pull Wire

## Cat5 Pulls

- Enclosure to Signal 1 - Blue & Other
- Signal 1 to Push Button - Black
- Signal 1 to South Track Box - Other
- Enclosure to Signal 2 - Blue & Other
- Signal 2 to Push Button - Black
- Signal 2 to North Track Box - Other
- Enclosure to Signal 3 - Blue & Other
- Signal 3 to Push Button - Black
- Signal 3 to South Track Box - Other
- Enclosure to Signal 4 - Blue & Other
- Signal 4 to Push Button - Black
- Signal 4 to North Track Box - Other

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

Note : The Track Team pulls all the wire that goes through an Expansion Joint. The Signal Team pulls the rest which includes all the 18 AWG except wires going from a Remote Solar Panel to the CP Board Enclosure



# 10. Witcombe - Pre Ballast Checklist

## Sidings

- \_\_\_ 140' plus Switch Point to Switch Point
- \_\_\_ Five 75' radius Switches

## Switch Stands

- \_\_\_ Switch Stands on 4 Mainline Switches
- \_\_\_ Switch Stands 40' from Switch Boxes
- \_\_\_ Metal EMT Conduit & Rod in
- \_\_\_ "Back In Only" on Wye Switch Stands

## Insulators

- \_\_\_ 18 Track Insulators per diagram

## Track Boxes

- \_\_\_ 8 Track Boxes
- \_\_\_ All Type C or Type LB
- \_\_\_ All on 2" pieces of conduit

## Connection Boxes

- \_\_\_ 4 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

- \_\_\_ 4 Foundation Blocks
- \_\_\_ All at Signal Points
- \_\_\_ All 4' from Center Line(s) of Track(s)
- \_\_\_ 18" threaded Mast in each Foundation Block

## Push Buttons

- \_\_\_ 4 Push Button Posts
- \_\_\_ 40' from Signals
- \_\_\_ No part <24" from Center Line Track

Where \_\_\_\_\_

By \_\_\_\_\_

Date \_\_\_\_\_

## Wye

- \_\_\_ 160' tail on Wye

## Flex Conduit

- \_\_\_ Flex Conduits per diagram

## Conduit

- \_\_\_ Enclosure to N End Siding
- \_\_\_ Enclosure to S End Siding
- \_\_\_ Enclosure to N End Wye
- \_\_\_ Enclosure to S End Wye
- \_\_\_ Enclosure to Remote Solar Panel (If Any)
- \_\_\_ Connects to 7 Track Boxes
- \_\_\_ Connects Signals to 4 Push Buttons
- \_\_\_ 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 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

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# 11. Ballast

- Please, No Ballast where a box is between the Ties. Plywood pieces should assure this.
- Keep Gators off Conduit till there is Ballast over it
- Cover Conduit crossings with Ballast before driving over
- Ballast 3" deep... 2" over Conduit

# Signage

# Signage

- At Farmersville Queuing Tracks At first Signal
  - A Box for Information Flyers for Northbound Track
  - A recycling box for Southbound Track
- “Back In Only” on Yellow Disk of Switch Stands on Wyes
- “Push When Ready to Depart” on Push Button Posts
- “End of Track” signs
  - Tail of Wyes
  - End of Storage Tracks
- Mileposts
- Place Names