Junction Boxes

- 8-20.3(6)
- 9-29.2 junction boxes
- 9-29.2(3) structure mounted JBs
- 9-29.2(4) cover markings

Type 1 Junction Box



Type 2 Junction Box



Base Plate and JB Type 3,7,or 8



Type 7 JBs12-inch Deep18-inch Deep





Type 8 Junction Box

Type 4 Junction Box

112

ME S



Type 4 JB





Type 6 Junction Box



Traffic Temporarily Placed Over Traffic Bearing Boxes



Pull Box With Section Out



JB Too High

When existing boxes need to be adjusted. Adjustments requiring raising or lowering JBs shall require conduit modification if the resultant clearance from conduit top, to the lid, becomes less than 6-inches or more than **10-inches**. Special Provisions 8-20.3(6)



Secure the Boxes

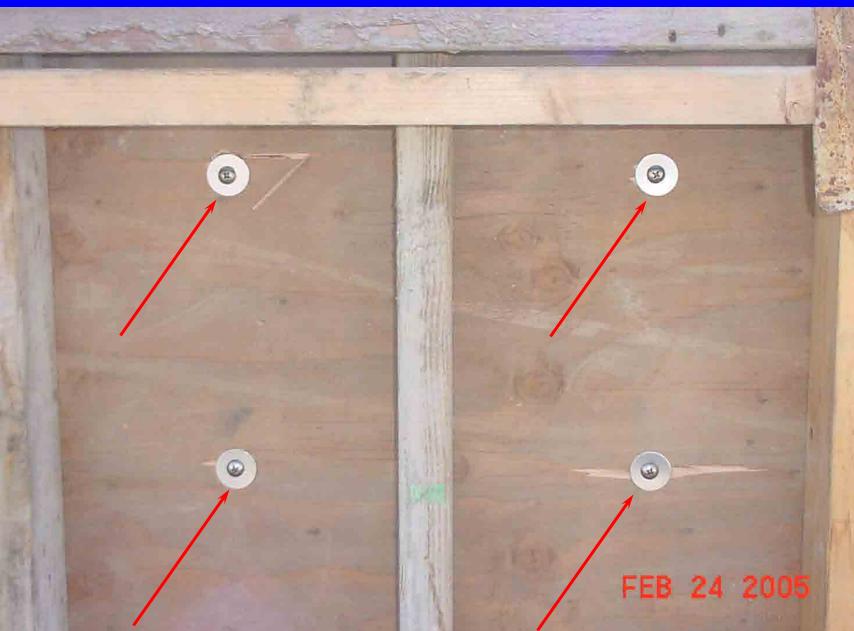




JB with Rail Form Face in Place

FEB 24 2005

JB Secured to Form Face



Adjustable JB With About 1.5-Inch of Adjustment NEMA 3X



NW Region requires adjustable boxes to be installed in "Slip Form Barriers" with adjustment bolts available with the construction lid in place. Special Prov. 9-29.2

Adjustable JB Video Clip Skip Still Pictures





Hold the Box Back to Let the Machine Start Over It

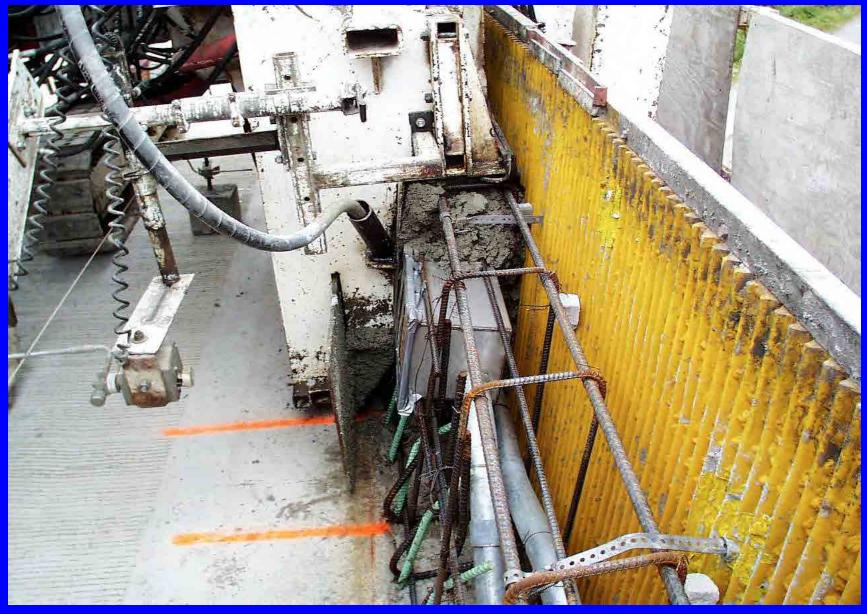




Holding the JB to Keep It Out Flush

A Close Watch Helps With a Good Product

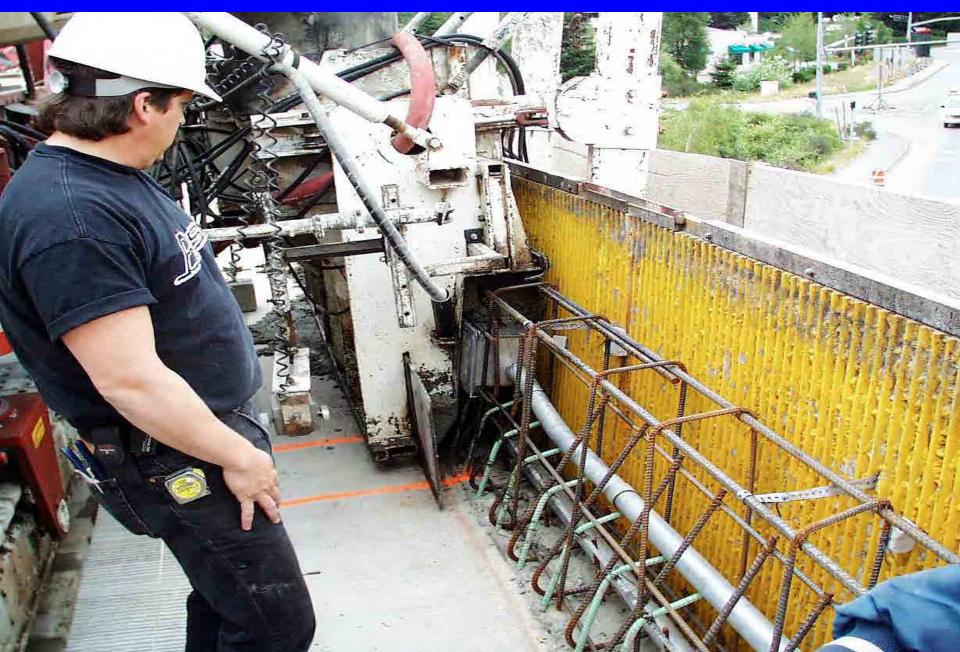
Looking Good

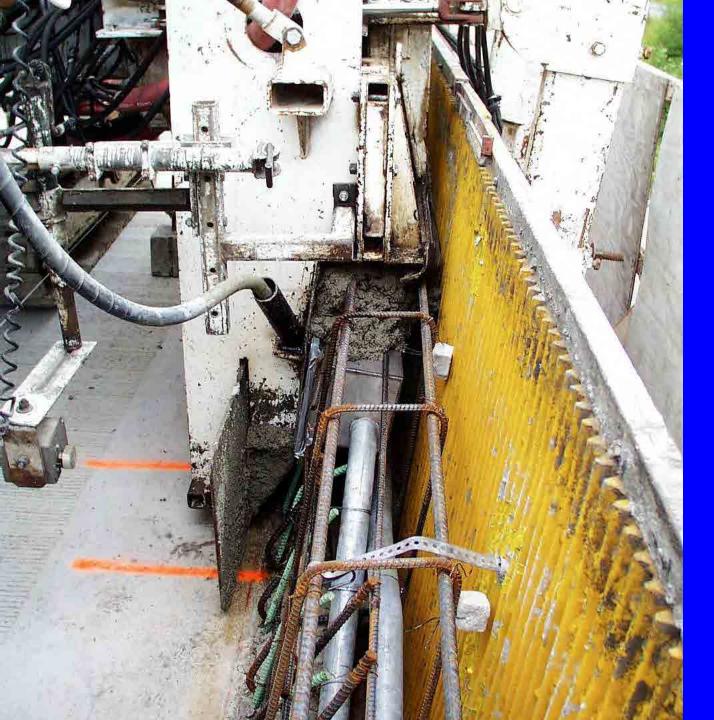


Box Looks Good



Pride in His Work





There It Goes



Last Minute Adjustment



After the Machine Extrudes It

I Know There Is a Box Here Someplace



Just a Little Too Deep



Pull It Out Just a Little More

Ok Stuff It Full of Mud

Now That Looks Great

RD



After the Pour



Inside the Box

(Se

2.

Colors,

Ground Lug Inside the Box Drain Hole Got Missed Box Has Been Hit



Lid After It Takes a Direct Hit



Barrier Box With Extension Added



Extension Installed With Epoxy



Plexiglas spacer and SS lid removed



Plexiglas spacer with SS lid removed



NW Region requires boxes in the barrier to be parallel to barrier top within 1-degree. The face shall not be more than 1/8-inch recessed. Special Provisions 8-20.3(6)

Concrete Made to Fit



Surface JB Hinge Lid



Surface Mount SS JB



Cable Vault Too High to Put on Traffic Bearing Lid ⁵ 1106PH

CV With Top 6 Inches Cut Off

:18AM

6 20 7



With Traffic Bearing Lid



Set Pull Box

60

Junction Box Inspection Checklist

Copy in your books

Messenger Cable Fittings

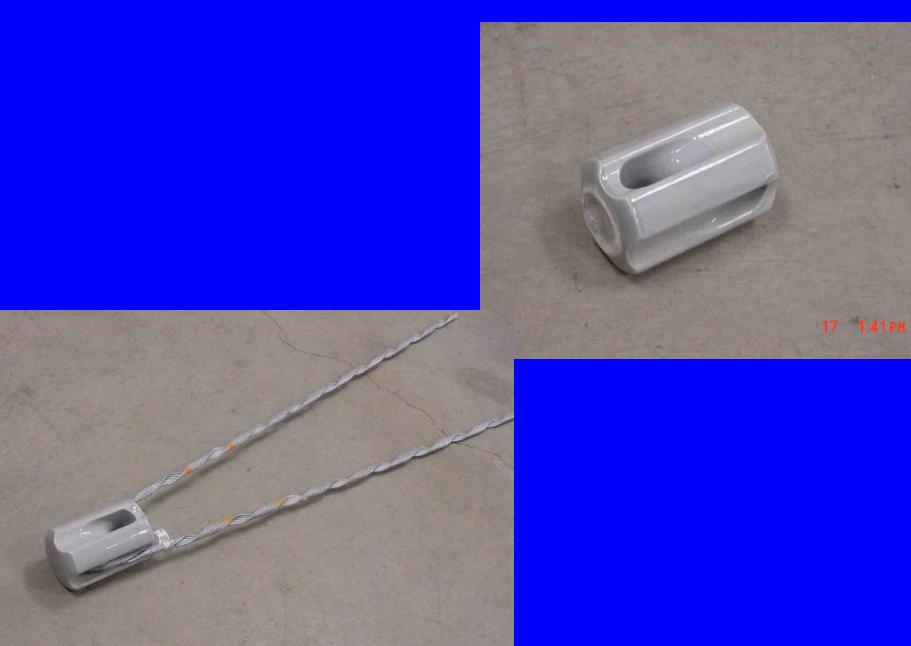
- 8-20.3(7)
- 9-29.4 messenger cable fittings
- 9.29.5 pole line hardware

Span System Parts

14 1:02 PH

Johnny Ball Insulator With Guy Wraps Installed

Johnny Ball Insulator



Aerial Terminal Box



Wiring

- 8-20.3(8)
- 9-29.3 conductors, cable
- 9-29.7 luminaire fusing and connections at light standards
- 9-29.12 electrical splice materials
- 9-29.12(1) illumination circuit splices

Mandrels



Pulling Wire



8-20.3(5) Conduit NW Region

In conduit less than 2-inch pull ropes for wire installation shall be not less than ¼-inch. In conduits 2-inch diameter or larger, pull ropes shall be not less than ½-inch.



Install Duct Seal

NW Region Requires Mechanical Conduit Plugs in All Cabinets



Make Sure They Are Ready Before The Pull Starts





Wire Connectors and Grounding Clamps

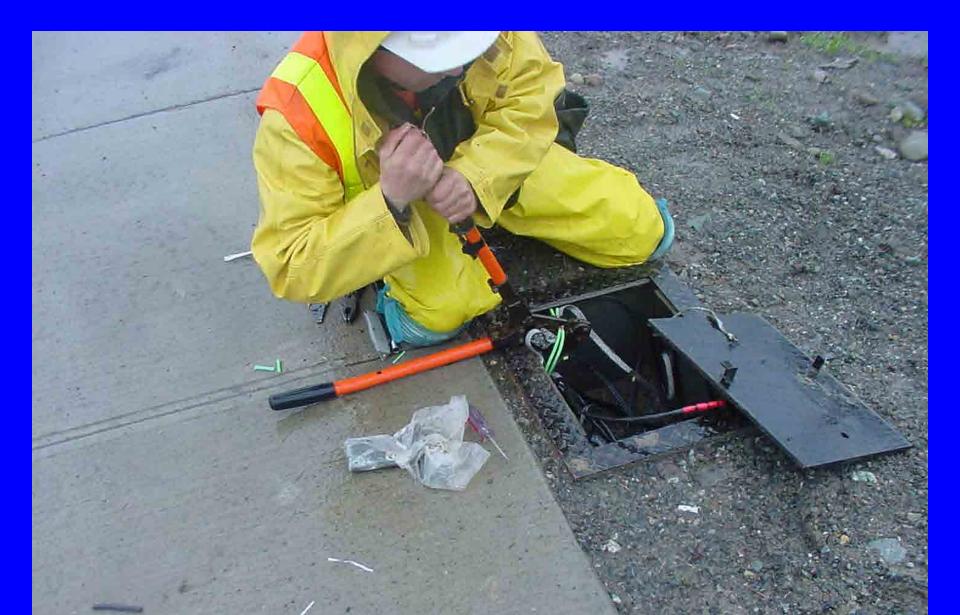


Burndy Crimp and Crimper





Crimping the Ground Wire



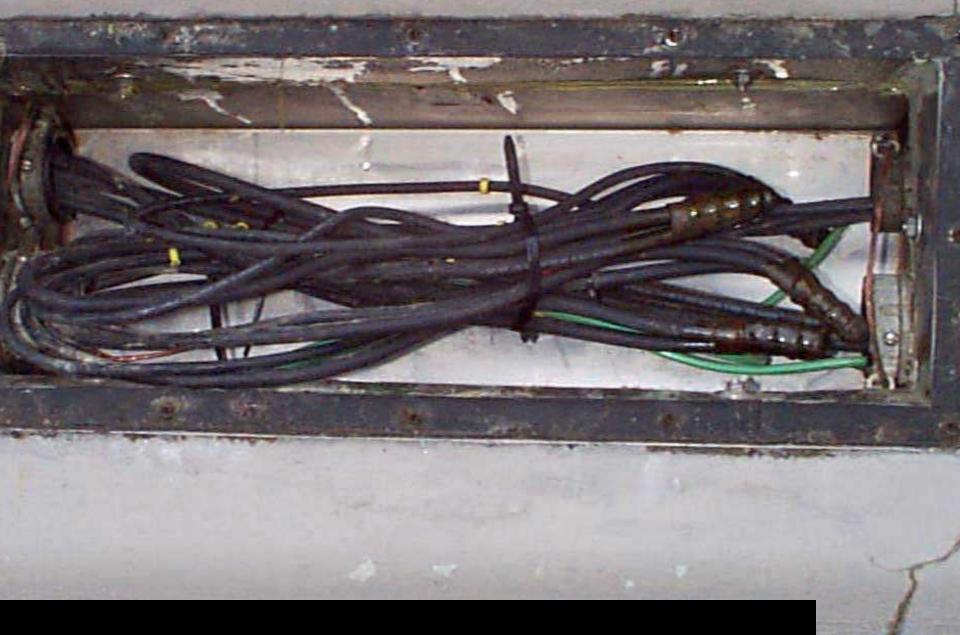
Epoxy Splice Kit



Heat Shrink

10001





Heat Shrink Splice

Heat Shrink Splices

in

A BIT DI STREET

25

Camera Cable Termination



Properly done



Corrosion Results

Poorly Done





Use Caution Where You Drive

Fiber Optic Tugger



Dynamometer on Control Unit

Pulling pressures on copper

8-20.3(8) Page 654

F.O. cable can be pulled at a maximum of 600 LBS. 9-29.3(1)

A12289E

Setting Up

Pulling Cable With Ease



Cable Is Out and Pulling Around the Puller Wheel



Racking Fiber Optic Cable

NW Region Require Stainless Steel Hangers

2:09 PM

Figure 8 Fiber Optic Rack in P.V.

NW Region Requires Stainless Steel Hangers

