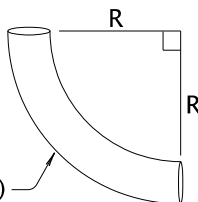


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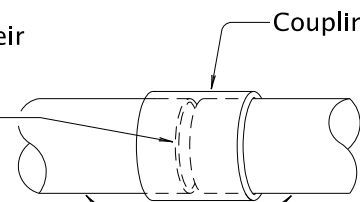
Standard Factory Fiberglass Bend
(No Crimping, Flattening, Field Manipulation, Or Cutting In The Field)



Conduit Diameter	R (min.)
1 1/2"	10"
2"	12"
2 1/2"	15"
3"	18"

CONDUIT ELBOWS

Make Cuts Square And True So Conduit Ends Fit Together For Their Full Circumference. Use Solvent Weld To Connect Conduit As Per Manufacturer's Recommendation.



Notes:
1. Slip Joints, Running Threads Or Reducing Couplings Not Allowed. Use The Same Size Conduit For The Entire Length, Outlet To Outlet.

CONDUIT COUPLINGS

Cables/Wires
(Or Pull Line In Conduit For Future Use Only)

Install Push-On PVC End Bell Conduit Bushings Before Installing Wire

Install Foam Conduit Plug After Wiring (Or Pull Line) Is Installed

1/2" To 1" Above Conduit Bushing

PVC Riser (In Junction Boxes) Or Fiberglass Riser (In Foundations)

Foam Conduit Plug

1/2" Larger Than Riser Diameter

3" Min.

Notes:
1. Ream Conduit Ends To Remove Rough Edges And Burrs
2. Temporarily Plug Or Cap Conduit Ends At All Times To Keep Debris Out

CONDUIT ENDS AND BUSHINGS

2" Min. To 3" Max.

Fiberglass Riser (Install Plumb)

Top Of Foundation

Concrete Foundation

Fiberglass Elbow

Coupling

Conduit (Size As Shown On Plans)

Extend Fiberglass Conduit 10" To 12" Beyond Foundation

CONDUIT INSTALLATIONS IN FOUNDATIONS

Junction Box Type	Max. Sum Of Conduit Diameters
JB1	12"
JB2	18"
JB3	34"

Junction Box

2" To 3" Typ. From End Wall

2" Min. To 3" Max.

PVC Riser (Install Plumb)

Conduit (Size As Shown On Plans). Enter Through The Bottom Of The Box Near The End Wall From The Direction Of The Conduit Run

(Direction Of Conduit Run)

Fiberglass Conduit Elbow

Coupling

CONDUIT INSTALLATION IN JUNCTION BOXES

Pull All Wires And Cables By Hand Only

Pull In A Straight Line With The Conduit Opening*

Temporarily Bundling Cables Or Wire (Tapes, Straps, Ties, Or Other Binding Material) Allowed Only At The Terminating End Points For Pulling Only

LUBRICANT

Use Electrical Lubricants When Inserting Wires And Cables In Conduit

* Use A Pulley Device To Achieve A Straight Line If Pulls Are Made With Poles Or Controller Cabinets In Place

WIRE & CABLE INSTALLATION IN CONDUITS

Wire & Cable Installation General Notes:

1. See TM470 For Additional Wire/Cable Installation Requirements That Apply To Specification Section 00990 Bid Items.

2. Label Wires And Cables With Permanent Tags As Shown Or Directed. Use Handheld Labeler (Brady M210 Label Maker With Vinyl B-595 Tape) Unless Otherwise Shown.

3. Install No. 16 AWG TFFN Orange Base With Blue Tracertone Wire In All Conduits As A Locate Wire. Leave Slack As Shown Or Directed And Install A Wire Nut. Do Not Join Multiple Locate Wires Under A Common Wire Nut Unless Otherwise Shown.

4. Tape The Ends Of Unused Conductors With Insulated Vinyl Plastic Tape.

5. Leave A Minimum Of 2 Feet Slack In Each Wire And Cable In Junction Boxes, Poles, Cabinets Unless Otherwise Shown.

6. Install Polyethylene Pull Line In All Conduits Noted On The Plans For Future Use (No Wires/Cables In Conduit). Leave 6 Feet Of Slack Pull Line.

Conduit Installation General Notes:

1. Install Non-Metallic Conduit Unless Otherwise Shown. Conduit Runs Shall Be Continuous Between Any Pole, Junction Box, Or Cabinet.

2. Larger Conduit Than Specified May Be Used At The Option And Cost Of The Contractor If Max. Sum Of Conduit Diameters In Junction Box Is Not Exceeded.

The selection and use of this Standard Drawing, while designed in accordance with generally accepted engineering principles and practices, is the sole responsibility of the user and should not be used without first consulting a Registered Professional Engineer.

All materials shall be in accordance with the current Oregon Standard Specifications.

OREGON STANDARD DRAWINGS

GENERAL CONDUIT & WIRE/CABLE INSTALLATION

2024

DATE	REVISION	DESCRIPTION
01-2025		NEW DRAWING (CONTENT FROM RETIRED TM470 & TM471)
01-2026		DELETED APPLICABILITY LANGUAGE IN CONDUIT IN FOUNDATIONS DETAIL
CALC. BOOK NO.	N/A	SDR DATE

13-JAN-2026

TM701