

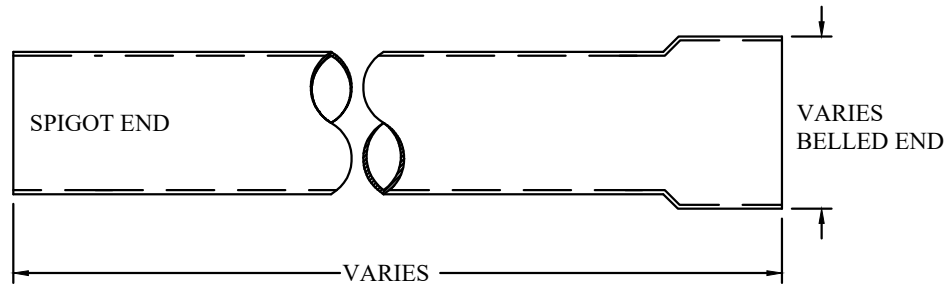
	CIVIL CONDUIT	SECTION:
		1418
		SHEET:
		1 OF 1
REV_DATE:		
04/01/26		

1418

CONDUIT

CONTAINS

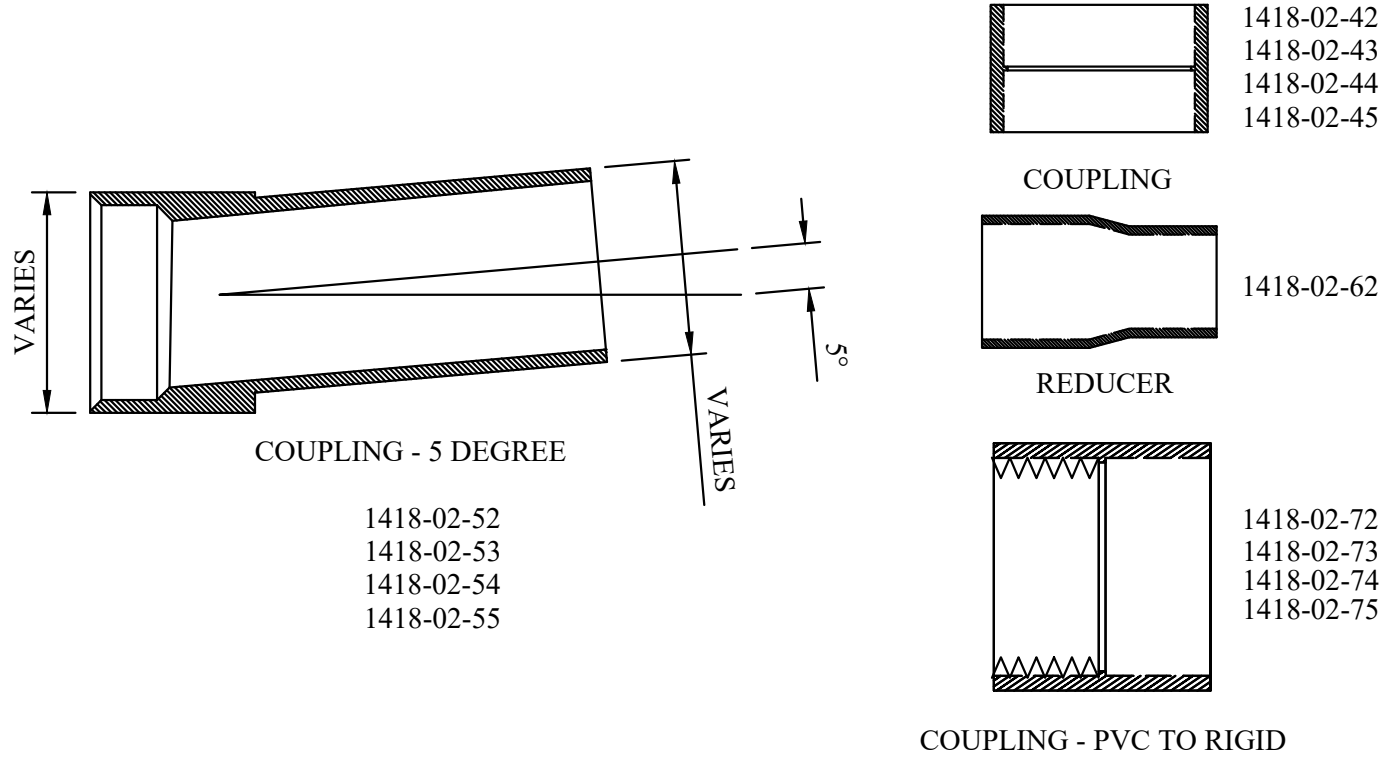
- 1418-00 CONDUIT PVC & GALVANIZED STEEL
- 1418-02 CONDUIT COUPLINGS & REDUCERS - SCHEDULE 40
- 1418-05 CONDUIT PLUGS, CAPS & BELL ENDS - SCHEDULE 40
- 1418-10 CONDUIT SPACERS
- 1418-11 CONDUIT SLEEVE & MULE TAPE
- 1418-19 CONDUIT BEND 90 AND 45 DEGREE <2' RADIUS
- 1418-21 CONDUIT BEND 22.5 DEGREE < 4' RADIUS
- 1418-22 CONDUIT BEND 45 DEGREE W/ 3'-12.5' RADIUS
- 1418-23 CONDUIT BEND 90 DEGREE W/ 2'-12.5' RADIUS (GALV.)
- 1418-25 CONDUIT WIRE BRUSH & MANDREL



1418-00-32 SCH 40 PVC 2"	1418-00-71 GALV IRON 1" 10FT
1418-00-33 SCH 40 PVC 3"	1418-00-72 GALV IRON 2" 10FT
1418-00-34 SCH 40 PVC 4"	1418-00-73 GALV IRON 3" 10FT
1418-00-62 SCH 80 PVC 2"	1418-00-74 GALV IRON 4" 10FT
1418-00-63 SCH 80 PVC 3"	1418-00-75 GALV IRON 5" 10FT
1418-00-64 SCH 80 PVC 4"	
1418-00-65 SCH 80 PVC 5"	

- * DIRECT-BURIED (DB) CONDUITS MAY BE USED IN RESIDENTIAL URD INSTALLATIONS FOR PRIMARY, SECONDARY AND SERVICE CONDUITS. THEY MAY ALSO BE USED FOR COMMERCIAL INSTALLATIONS WITH A 2-IN. RED CONCRETE CAP.
- * USE 2-IN. RED CONCRETE CAP WHEN YOU CANNOT SET IN FULL IF REQUIRED FOR SHALLOW DEPTHS.
- * ALWAYS USE TYPE PVC SCHEDULE 40 FOR ALL STREET CROSSINGS IN DB AND CONCRETE-CAPPED INSTALLATIONS.
- * USE ENCASED-BURIED (EB) CONDUIT FOR INSTALLATIONS REQUIRING CONCRETE ENCASEMENTS.
- * ALWAYS CONCRETE-ENCASE 5-IN. AND 6-IN. CONDUITS.
- * USE TYPE PVC SCHEDULE 40 FOR ALL PVC CONDUIT BENDS, CONNECTORS AND TERMINATIONS.
- * MAINTAIN ROUNDNESS OF CONDUIT AT ALL TIMES AND VERIFY AFTER INSTALLATION BY MANDRELLING.
- * DO NOT HEAT-BEND CONDUIT. STRAIGHT CONDUIT LENGTHS MAY BE COLD-BENT IN THE TRENCH IF THE RADIUS IS NOT LESS THAN 12.5 FT. FOR 2-IN. CONDUIT AND 65 FT. FOR CONDUITS 3-IN. OR LARGER IN DIAMETER.
- * PRIME AND CEMENT-WELD CONDUIT JOINTS. PRIMER AND CEMENT SHALL COMPLY WITH ASTM F656 AND ASTM D2565 RESPECTIVELY.
- * SURROUND DB CONDUIT WITH SAND OR BACKFILL MATERIAL CAPABLE OF PASSING THROUGH A 1/2-IN. SLEEVE. GRAVEL CONTENT IN BACKFILL MIX SHALL NOT BE MORE THAN 50% IN VOLUME. TO AVOID DAMAGE TO DB ELECTRICAL CONDUIT, GRADE BOTTOM OF TRENCH SMOOTH. TOP DB CONDUIT WITH 6-IN. (AFTER COMPACTION) OF THE SAME BASE MATERIAL. ACCEPTABLE BASE MATERIAL FOR DB INSTALLATIONS IS SAND, SANDY LOAM, NATIVE MATERIAL, OR A COMBINATION THEREOF. THE BACKFILL MATERIAL ABOVE THE 6-IN. LAYER SPECIFIED ABOVE SHALL BE FREE OF ROCKS LARGER THAT 6-IN. IN ANY DIMENSION.
- * SEE PAGE 1419-20 FOR CONCRETE BACKFILL MIXTURES.

CU-REF	CU-ID	CU-DESCRIPTION
14180012	CNDTEB35PVC1IN201BE	COND 2" PVC TP EB- 35, 20' SEC WBE
14180013	CNDTEB35PVC3IN20BE	COND 3" PVC TP EB- 35, 20' SEC W/BE
14180014	CNDTEB35PVC4IN20BE	COND 4" PVC TP EB- 35, 20' SEC W/BE
14180015	CNDTEB35PVC5IN20BE	COND 5" PVC TP EB- 35, 20' SEC W/BE
14180022	CNDTDB60PVC2IN201BE	COND 2" PVC TP DB- 60, 20' SEC W/BE
14180023	CNDTDB60PVC3IN20BE	COND 3" PVC TP DB- 60, 20' SECT W/BE
14180024	CNDTDB60PVC4IN20BE	COND 4" PVC TP DB- 60, 20'SEC W/BE
14180032	CNDT40PVC2IN101BE	COND 2" PVC SCH 40, 10' SEC W/BE
14180033	CNDT40PVC3IN101BE	COND 3" PVC SCH 40, 10' SEC W/BE
14180034	CNDT40PVC4IN101BE	COND 4" PVC SCH 40, 10' SEC W/BE
14180062	CNDT80PVC2IN101BE	COND 2 PVC SCH 80, 10' SEC W/BE
14180063	CNDT80PVC3IN101BE	COND 3 PVC SCH 80, 10' SEC W/BE
14180064	CNDT80PVC4IN101BE	COND 4" PVC SCH 80, 10' SEC W/BE
14180065	CNDT80PVC5IN101BE	COND 5" PVC SCH 80, 10' SEC W/BE
14180071	CNDTGALVIRON1IN10	COND GALV IRON 1" 10' LENGTH
14180072	CNDTGALVIRON2IN10	COND GALV IRON 2", 10' LENGTH
14180073	CNDTGALVIRON3IN10	COND GALV IRON 3", 10' LENGTH
14180074	CNDTGALVIRON4IN10	COND GALV IRON 4", 10' LENGTH
14180075	CNDTGALVIRON5IN10	COND GALV IRON 5", 10' LENGTH



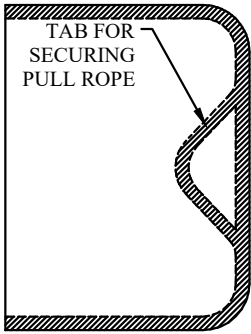
MAINTAIN ROUNDNESS OF CONDUIT AT ALL TIMES AND VERIFY AFTER INSTALLATION BY MANDRELLING.

DO NOT HEAT-BEND CONDUIT. STRAIGHT CONDUIT LENGTHS MAY BE COLD-BENT IN THE TRENCH IF THE RADIUS IS NOT LESS THAN 12.5 FT. FOR 2-IN. CONDUIT AND 65 FT. FOR CONDUITS 3-IN. OR LARGER IN DIAMETER.

PRIME AND CEMENT-WELD CONDUIT JOINTS. PRIMER AND CEMENT SHALL COMPLY WITH ASTM F656 AND ASTM D2565 RESPECTIVELY.

FOR 4" AND 5', MAINTAIN BY MANDRELLING.

CU-REF	CU-ID	CU-DESCRIPTION
14180242	COU2IN40PVC	COUPLING 2" PVC SCH 40
14180243	COU3IN40PVC	COUPLING 3" PVC SCH 40
14180244	COU4IN40PVC	COUPLING 4" PVC SCH 40
14180245	COU5IN40PVC	COUPLING 5" PVC SCH 40
14180252	COU5DEG2INPVC40	COUPLING 5- DEG ANGLE 2" PVC SCH 40
14180253	COU5DEG3INPVC40	COUPLING 5- DEG ANGLE 3" PVC SCH 40
14180254	COU5DEG4INPVC40	COUPLING 5- DEG ANGLE 4" PVC SCH 40
14180255	COU5DEG5INPVC40	COUPLING 5- DEG ANGLE 5" PVC SCH 40
14180262	CNDTPVC40RED3IN-2IN	REDUCER 3" TO 2" PVC SCH 40
14180272	COUFEM2INPVC-RDG	COUPLING FEMALE PVC TO RIGID COND 2"
14180273	COUFEM3INPVC-RDG	COUPLING FEMALE PVC TO RIGID COND 3"
14180274	COUFEM4INPVC-RDG	COUPLING FEMALE PVC TO RIGID COND 4"
14180275	COUFEM5INPVC-RDG	COUPLING FEMALE PVC TO RIGID COND 5"

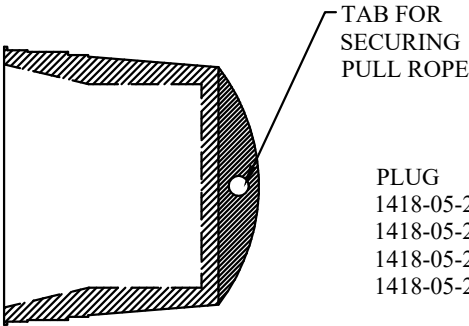


CAP PVC
1418-05-32
1418-05-33
1418-05-34
1418-05-35

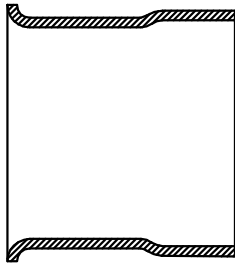
DO NOT USE REDUCERS WITHIN A CONDUIT RUN.

MAINTAIN ROUNDNESS OF CONDUIT AT ALL TIMES AND VERIFY AFTER INSTALLATION BY MANDRELLING.

PRIME AND CEMENT-WELD CONDUIT JOINTS. PRIMER AND CEMENT SHALL COMPLY WITH ASTM F656 AND ASTM D2565 RESPECTIVELY.



PLUG
1418-05-22
1418-05-23
1418-05-24
1418-05-25



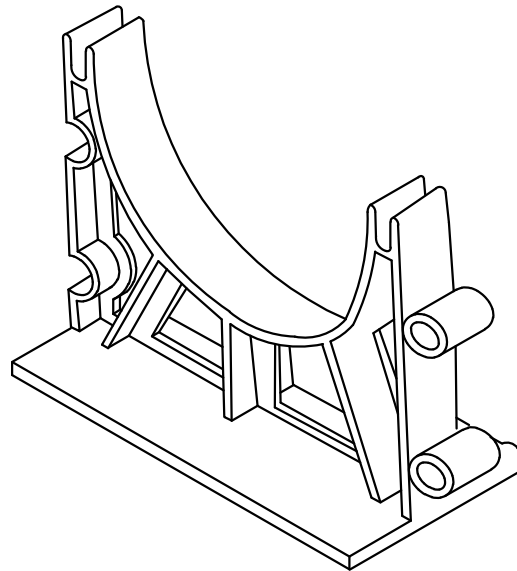
BELL END
1418-05-42
1418-05-43
1418-05-44
1418-05-45

PLUG ALL UNUSED CONDUITS IN ANY SUBSTRUCTURE. PRIME AND CEMENT-WELD CONDUIT JOINTS. PRIMER AND CEMENT SHALL COMPLY WITH ASTM F656 AND ASTM D2565 RESPECTIVELY.

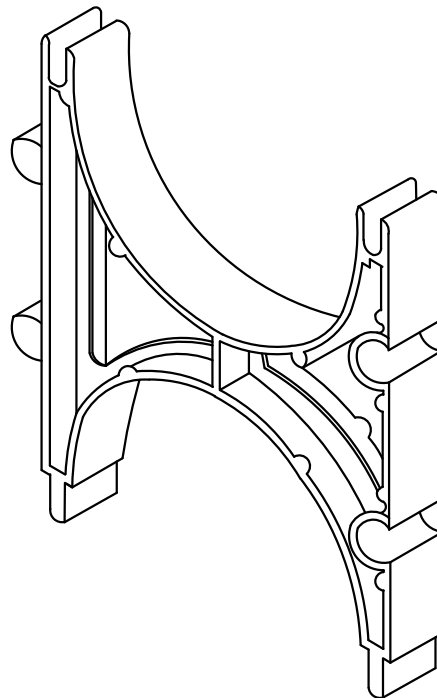
USE BELL ENDS ON ALL CONDUIT TERMINATIONS AT SUBSTRUCTURES TO FACILITATE INSTALLATION OF CABLE AND AVOID DAMAGE TO CABLES DURING PULLING.

PRIME AND CEMENT-WELD CONDUIT JOINTS. PRIMER AND CEMENT SHALL COMPLY WITH ASTM F656 AND ASTM D2565 RESPECTIVELY.

CU-REF	CU-ID	CU-DESCRIPTION
14180522	PL2INPVC40	PLUG 2" PVC SCH 40
14180523	PL3INPVC40	PLUG 3" PVC SCH 40
14180524	PL4INPVC40	PLUG 4" PVC SCH 40
14180525	PL5INPVC40	PLUG 5" PVC SCH 40
14180532	CAP40PVC2IN	CAP 2" PVC SCH 40
14180533	CAP40PVC3IN	CAP 3" PVC SCH 40
14180534	CAP40PVC4IN	CAP 4" PVC SCH 40
14180535	CAP40PVC5IN	CAP 5" PVC SCH 40
14180542	BELLEND40PVC2IN	BELL END 2" PVC SCH 40
14180543	BELLEND40PVC3IN	BELL END 3" PVC SCH 40
14180544	BELLEND40PVC4IN	BELL END 4" PVC SCH 40
14180545	BELLEND40PVC5IN	BELL END 5" PVC SCH 40

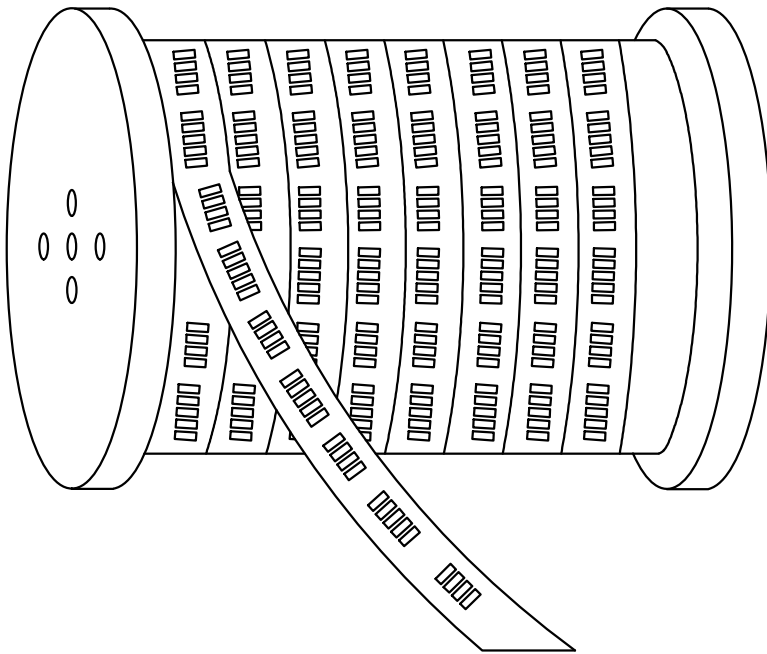


1418-10-21
1418-10-41
1418-10-51

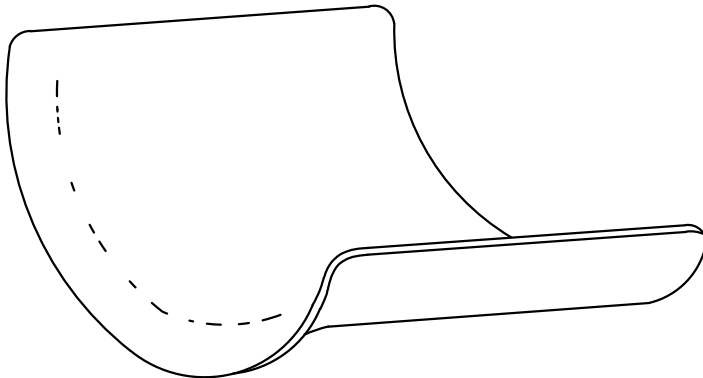


1418-10-22
1418-10-32
1418-10-42
1418-10-52

CU-REF	CU-ID	CU-DESCRIPTION
14181021	CNDTSPCB2IN	COND SPACER BASE 2"
14181022	CNDTSPCINT2IN	COND SPACER INTERMD 2"
14181032	CNDTSPCINT3IN	COND SPACER INTERMD 3"
14181041	CNDTSPCB4IN	COND SPACER BASE 4"
14181042	CNDTSPCINT4IN	COND SPACER INTERMD 4"
14181051	CNDTSPCB5IN	COND SPACER BASE 5"
14181052	CNDTSPCINT5IN	COND SPACER INTERMD 5"

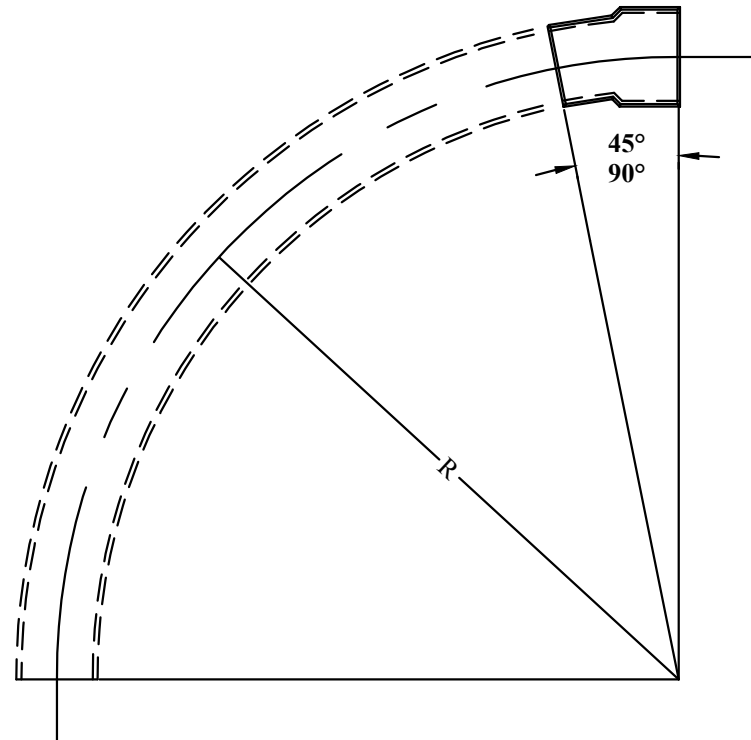


1418-11-05



1418-11-10

CU-REF	CU-ID	CU-DESCRIPTION
14181105	MULETAPE	MULETAPE POLY FLAT WOVEN LUB W/FT MARKIN
14181110	GARDSAVERVIRPL#LG-345	COND SLEEVE PROTECTOR CABLE 3- 6"



- 1418-19-01 2IN 9.5 IN RADIUS 90 DEG
- 1418-19-04 2IN 18 IN RADIUS 45 DEG
- 1418-19-07 3IN 18 IN RADIUS 45 DEG
- 1418-19-13 2IN 18 IN RADIUS 90 DEG
- 1418-19-16 3IN 18 IN RADIUS 90 DEG

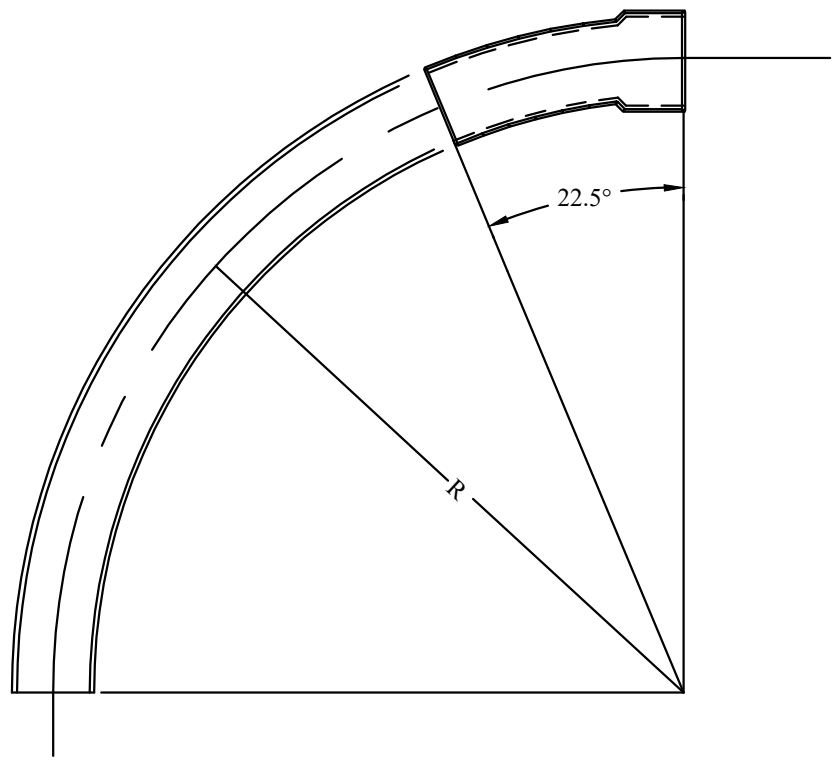
USE TYPE PVC SCHEDULE 40 FOR ALL PVC CONDUIT BENDS, CONNECTORS, AND TERMINATIONS EXCEPT FOR RISER BASE CONDUITS WHICH REQUIRE GALVANIZED.

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CU-REF	CU-ID	CU-DESCRIPTION
14181901	BEND40PVC2IN90DEG-9.5INR	COND BEND 90 DEG 2" PVC SCH 40 9.5"R
14181904	BEND40PVC2IN45DEG-18INR	COND BEND 45 DEG 2" PVC SCH 40 18"R
14181907	BEND40PVC3IN45DEG-18INR	COND BEND 45 DEG 3" PVC SCH 40 18"R
14181913	BEND40PVC2IN90DEG-18INR	COND BEND 90 DEG 2" PVC SCH 40 18"R
14181916	BEND40PVC3IN90DEG-18INR	COND BEND 90 DEG 3" PVC SCH 40 18"R
14182036	BEND40PVC3IN11DEG-12FTR	COND BEND 11.25- DEG 3" PVC SCH 40,12.5"R
14182046	BEND40PVC4IN11DEG-12FTR	COND BEND 11.25- DEG 4" PVC SCH 40,12.5"R
14182056	BEND40PVC5IN11DEG-12FTR	COND BEND 11.25- DEG 5" PVC SCH 40,12.5"R



- 1418-21-23 2 IN 36 IN RADIUS
- 1418-21-24 2 IN 48 IN RADIUS
- 1418-21-26 2 IN 12.5 FT RADIUS
- 1418-21-33 3 IN 36 IN RADIUS
- 1418-21-34 3 IN 48 IN RADIUS
- 1418-21-36 3 IN 12.5 FT RADIUS
- 1418-21-46 4 IN 12.5 FT RADIUS
- 1418-21-56 5 IN 12.5 FT RADIUS

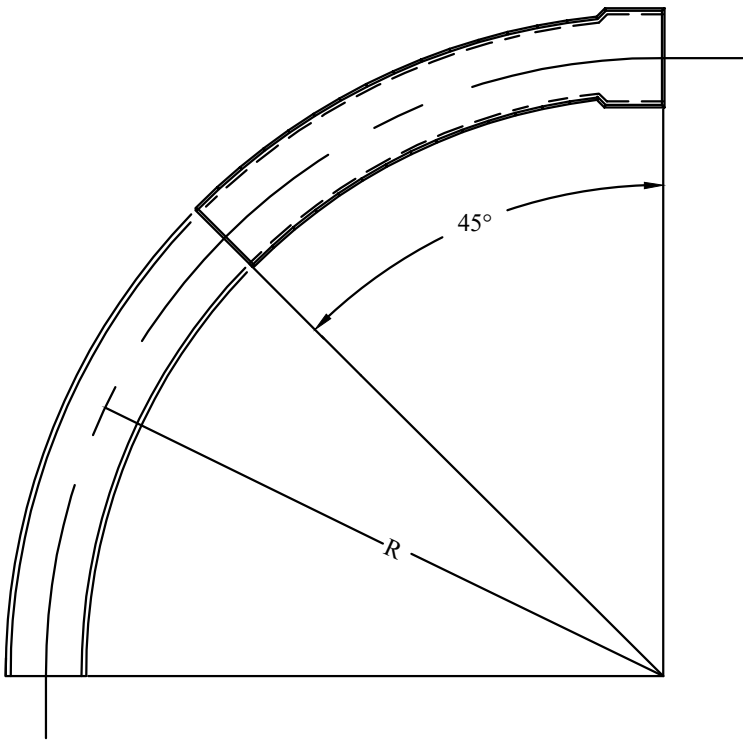
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CU-REF	CU-ID	CU-DESCRIPTION
14182123	BEND40PVC2IN22DEG-24INR	COND BEND 22.5- DEG 2" PVC SCH 40, 36" R
14182124	BEND40PVC2IN22DEG-48INR	COND BEND 22.5- DEG 2" PVC SCH 40, 48" R
14182126	BEND40PVC2IN22DEG-12FTR	COND BEND 22.5- DEG 2" PVC SCH 40, 12.5'R
14182133	BEND40PVC2IN22DEG-36IN	COND BEND 22.5- DEG 3" PVC SCH 40, 36" R
14182134	BEND40PVC3IN22DEG-48INR	COND BEND 22.5- DEG 3" PVC SCH 40, 48" R
14182136	BEND40PVC3IN22DEG-12FTR	COND BEND 22.5- DEG 3" PVC SCH 40, 12.5'R
14182146	BEND40PVC4IN22DEG-12FTR	COND BEND 22.5- DEG 4" PVC SCH 40, 12.5'R
14182156	BEND40PVC5IN22DEG-12FTR	COND BEND 22.5- DEG 5" PVC SCH 40, 12.5'R



1418-22-23	2 IN 36 IN RADIUS
1418-22-24	2 IN 48 IN RADIUS
1418-22-26	2 IN 12.5 FT RADIUS
1418-22-33	3 IN 36 IN RADIUS
1418-22-34	3 IN 48 IN RADIUS
1418-22-36	3 IN 12.5 FT RADIUS
1418-22-44	4 IN 48 IN RADUIS
1418-22-46	4 IN 12.5 FT RADIUS
1418-22-56	5 IN 12.5 FT RADIUS

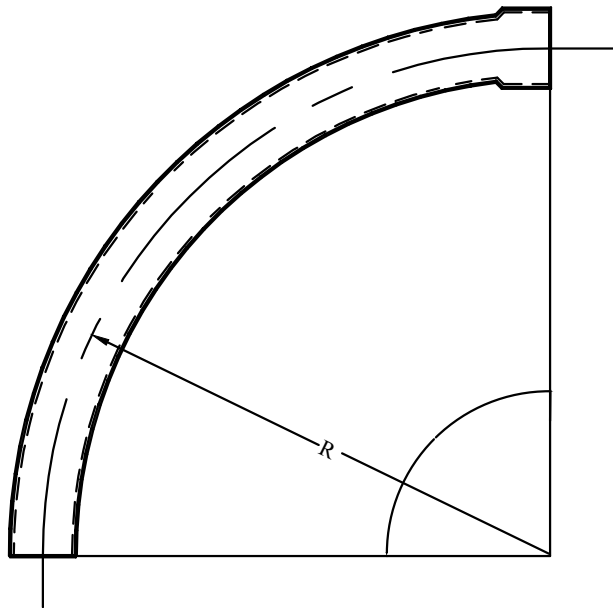
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CU-REF	CU-ID	CU-DESCRIPTION
14182223	BEND40PVC2IN45DEG-36INR	COND BEND 45- DEG 2" PVC SCH 40, 36" R
14182224	BEND40PVC2IN45DEG-48INR	COND BEND 45- DEG 2" PVC SCH 40, 48" R
14182226	BEND40PVC2IN45DEG-12FTR	COND BEND 45- DEG 2" PVC SCH 40, 12.5'R
14182233	BEND40PVC3IN45DEG-36INR	COND BEND 45- DEG 3" PVC SCH 40, 36"R
14182234	BEND40PVC3IN45DEG-48INR	COND BEND 45- DEG 3" PVC SCH 40, 48"R
14182236	BEND40PVC3IN45DEG-12FTR	COND BEND 45- DEG 3" PVC SCH 40, 12.5'R
14182244	BEND40PVC4IN45DEG-48INR	COND BEND 45- DEG 4" PVC SCH 40, 48"R
14182246	BEND40PVC4IN45DEG-12FTR	COND BEND 45- DEG 4" PVC SCH 40, 12.5'R
14182256	BEND40PVC5IN45DEG-12FTR	COND BEND 45- DEG 5" PVC SCH 40, 12.5'R



- 1418-23-12 2IN GALV 36" RAD
1418-23-13 3IN GALV 36" RAD
1418-23-14 4IN GALV 24" RAD
1418-23-15 5IN GALV 24" RAD
1418-23-23 2IN PVC 24" RAD
1418-23-24 2IN PVC 48" RAD
1418-23-26 2IN PVC 12.5' RAD
1418-23-33 3IN PVC 24" RAD
- 1418-23-34 3IN PVC 36" RAD
1418-23-36 3IN PVC 12.5' RAD
1418-23-41 4IN PVC 24" RAD
1418-23-43 4IN PVC 36" RAD
1418-23-44 4IN PVC 48" RAD
1418-23-46 4IN PVC 12.5' RAD
1418-23-54 5IN PVC 36" RAD
1418-23-56 5IN PVC 12.5' RAD

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CU-REF	CU-ID	CU-DESCRIPTION
14182312	BENDGALV2IN90DEG-24INR	COND BEND, 90- DEG 2" GALV, 24"R
14182313	BENDGALV3IN90DEG-36INR	COND BEND, 90- DEG 3" GALV, 36"R
14182314	BENDGALV3IN90DE-24INR	COND BEND, 90- DEG 4" GALV, 24"R
14182315	BENDGALV5IN90DEG-24INR	COND BEND, 90- DEG 5" GALV, 24"R
14182323	BEND40PVC2IN90DEG-24INR	COND BEND, 90- DEG 2" PVC SCH 40, 24"R
14182324	BEND40PVC2IN90DEG-48INR	COND BEND, 90- DEG 2" PVC SCH 40, 48"R
14182326	BEND40PVC2IN90DEG-12FTR	COND BEND, 90- DEG 2" PVC SCH 40, 12.5'R
14182333	BEN40PVC3IN90DEG-24INR	COND BEND, 90- DEG 3" PVC SCH 40, 24"R
14182334	BEND40PVC3IN90DEG-36INR	COND BEND, 90- DEG 3" PVC SCH 40, 36"R
14182336	BEND40PVC3IN90DEG-12FTR	COND BEND, 90- DEG 3" PVC SCH 40, 12.5'R
14182341	BEND40PVC4IN90DEG-24INR	COND BEND, 90- DEG 4" PVC SCH 40, 24"R
14182343	BEND80PVC4IN90DEG-36INR	COND BEND, 90- DEG 4" PVC SCH 80, 36"R
14182344	BEND40PVC4IN90DEG-48INR	COND BEND, 90- DEG 4" PVC SCH 40, 48"R
14182346	BEND40PVC4IN90DEG-12.5FTR	COND BEND, 90- DEG 4" PVC SCH 40, 12.5'R
14182354	BEND40PVC5IN90DEG-36INR	COND BEND, 90- DEG 5" PVC SCH 40, 36"R
14182356	BEND40PVC5IN90DEG12.5FTR	COND BEND, 90- DEG 5" PVC SCH' 40, 12.5'R

1418-30 PVC SCHEDULE 40 & 80 WIRE BRUSH & MANDREL



WIRE BRUSH



MANDREL

MANDREL AND WIRE BRUSH SHALL BE SIZED TO FIT THE DIAMETER AND TYPE OF CONDUIT BEING USED.

MANDREL SHALL BE A MINIMUM OF 12" LONG AND WITH A DIAMETER APPROXIMATELY ¼" LESS THAN THE INSIDE DIAMETER OF THE CONDUIT.

MAINTAIN ROUNDNESS OF CONDUIT AT ALL TIMES AND VERIFY AFTER INSTALLATION BY MANDRELLING.

AFTER COMPLETION OF THE DUCTBANK MANDREL EACH CONDUIT TO CONFIRM ROUNDNESS AND DETERMINE THERE ARE NO OBSTRUCTIONS.

AFTER MANDRELLING, WIRE BRUSH EACH CONDUIT TO LOOSEN ALL DIRT AND SEDIMENT AND TO CLEAN THE CONDUIT.

FAILURE OF ANY CONDUIT TO PASS THE MANDREL SHALL BE SUFFICIENT REASON TO REJECT THE ENTIRE DUCT RUN.

FAILURE OF THE DUCT RUN SHALL BE CORRECTED AT NO EXPENSE TO AUSTIN ENERGY.