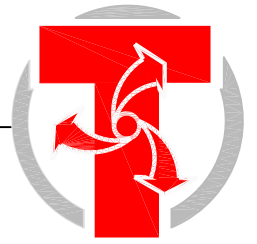


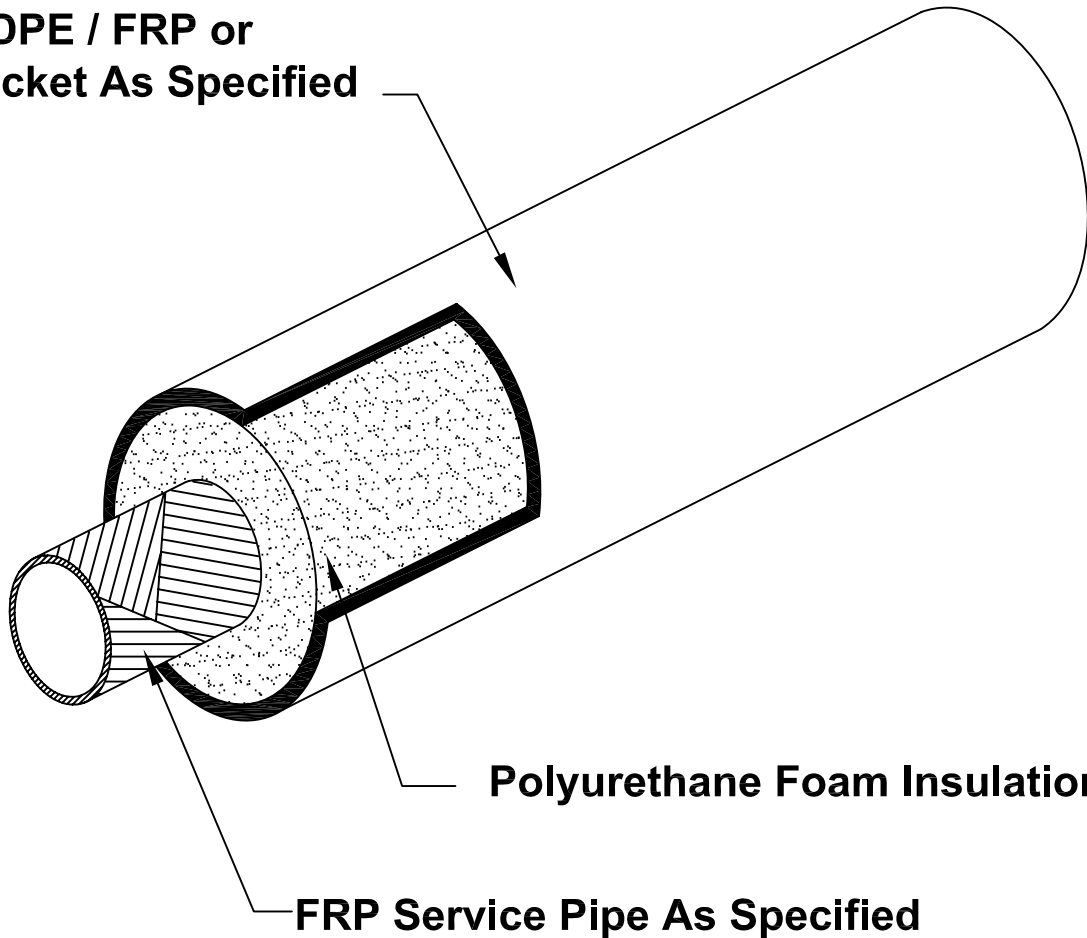
TRICON FRP PIPE SYSTEM



For Applications Up To 250° F Below And Above Ground

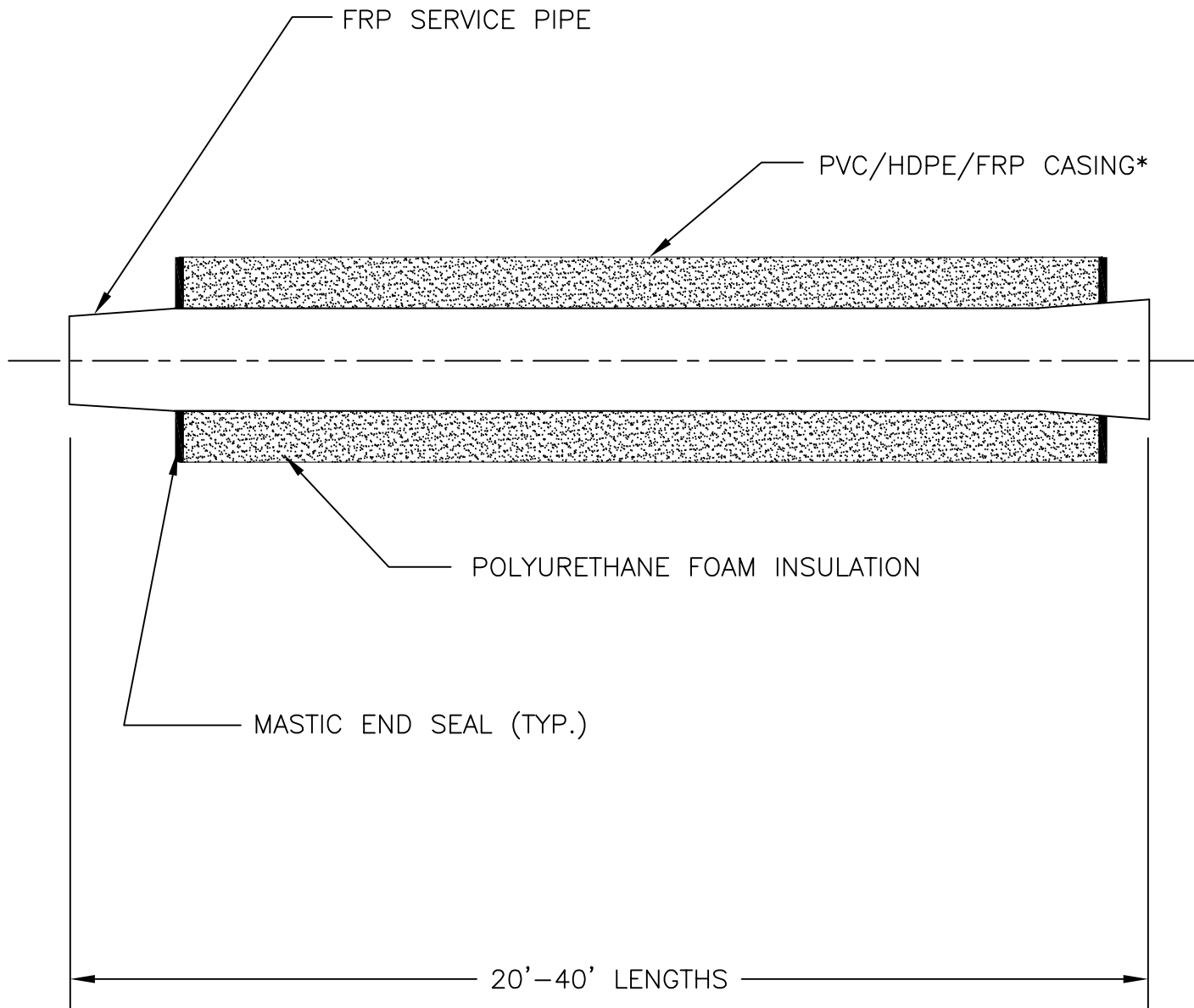
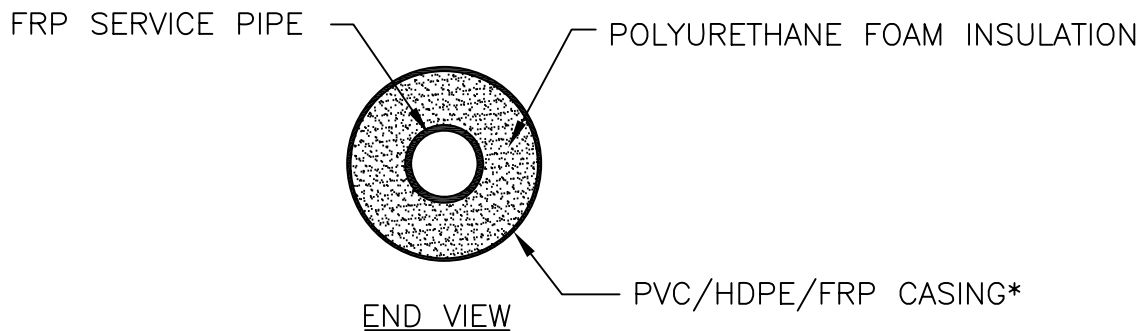
- Chilled Water
- Condensate
- Fuel Oil
- Heating Hot Water
- Potable Water
- Process Piping
- Waste Water

**PVC / HDPE / FRP or
Metal Jacket As Specified**



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* OPTIONAL METAL JACKET AVAILABLE FOR ABOVE GRADE APPLICATION.

FRP STRAIGHT LENGTH DETAIL - BELL x PLAIN END

TRICON FRP

Date: 03/09/06

Dwg. No. FRP-1A

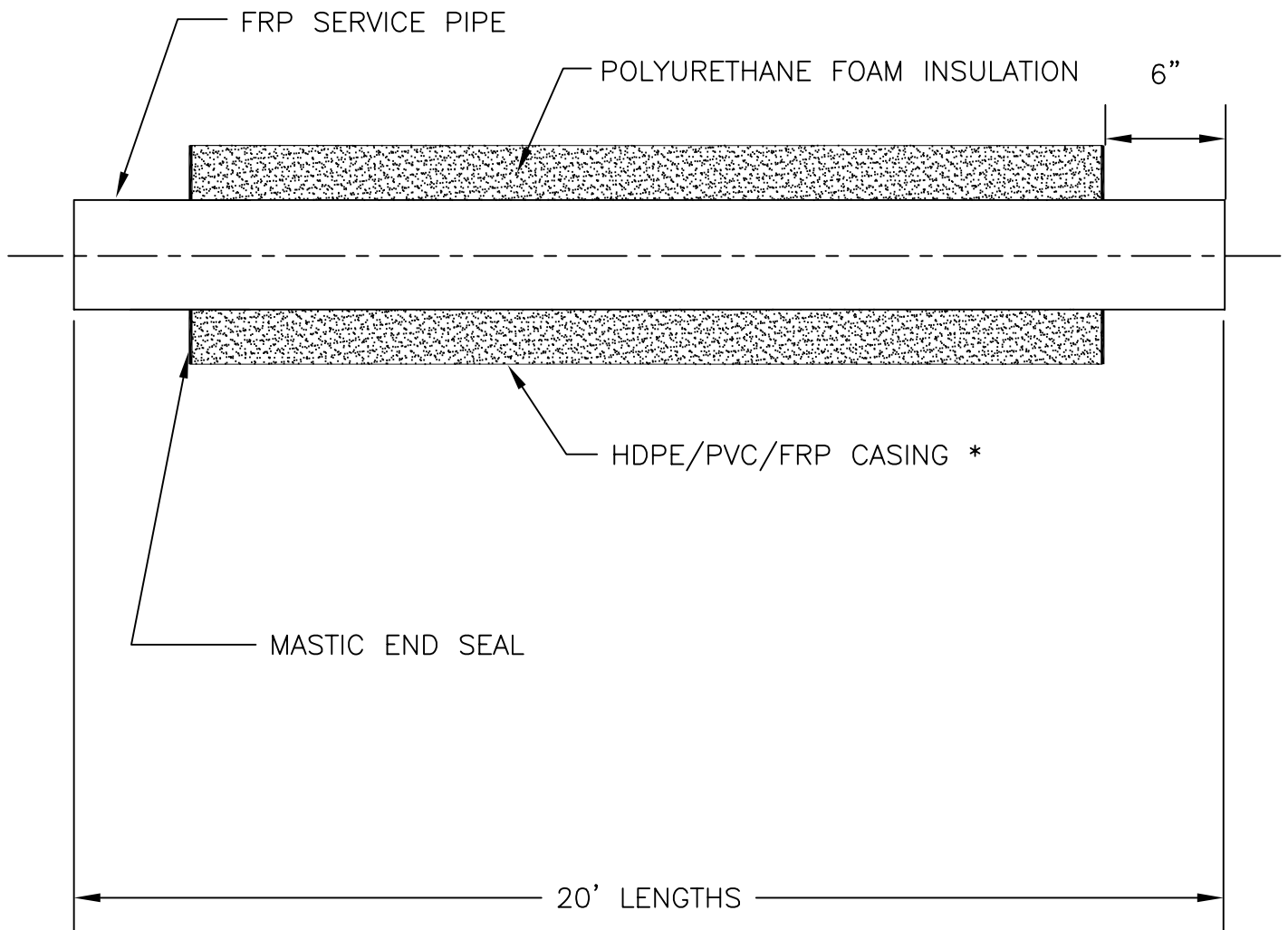
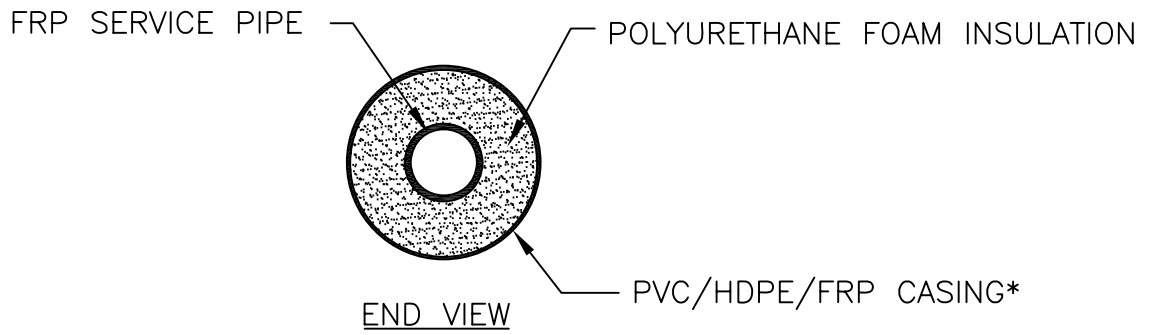
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* OPTIONAL METAL JACKET AVAILABLE FOR ABOVE GRADE APPLICATION.

FRP STRAIGHT LENGTH DETAIL - PLAIN END x PLAIN END

TRICON FRP

Date: 03/09/06

Dwg. No. FRP-1B

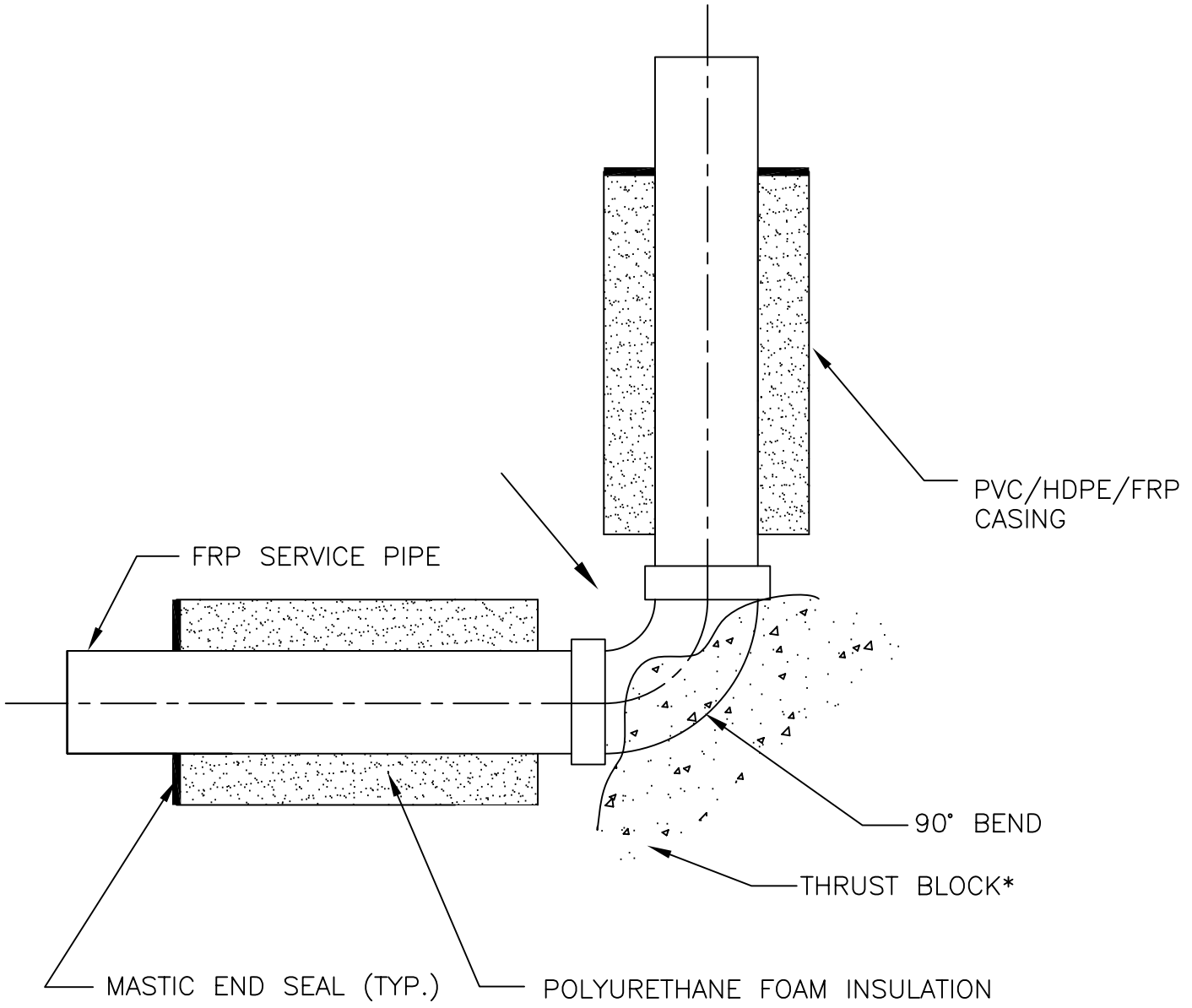
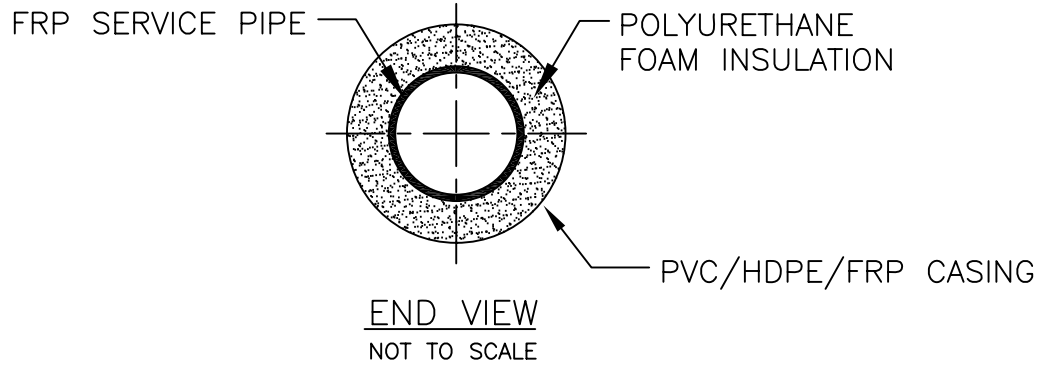
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* THRUST BLOCKING MAY BE REQUIRED FOR HOT WATER SYSTEMS
CONTACT DESIGN ENGINEER FOR THRUST BLOCK DESIGN, SIZING,
AND SOIL CONDITIONS.

FRP 90° BEND DETAIL



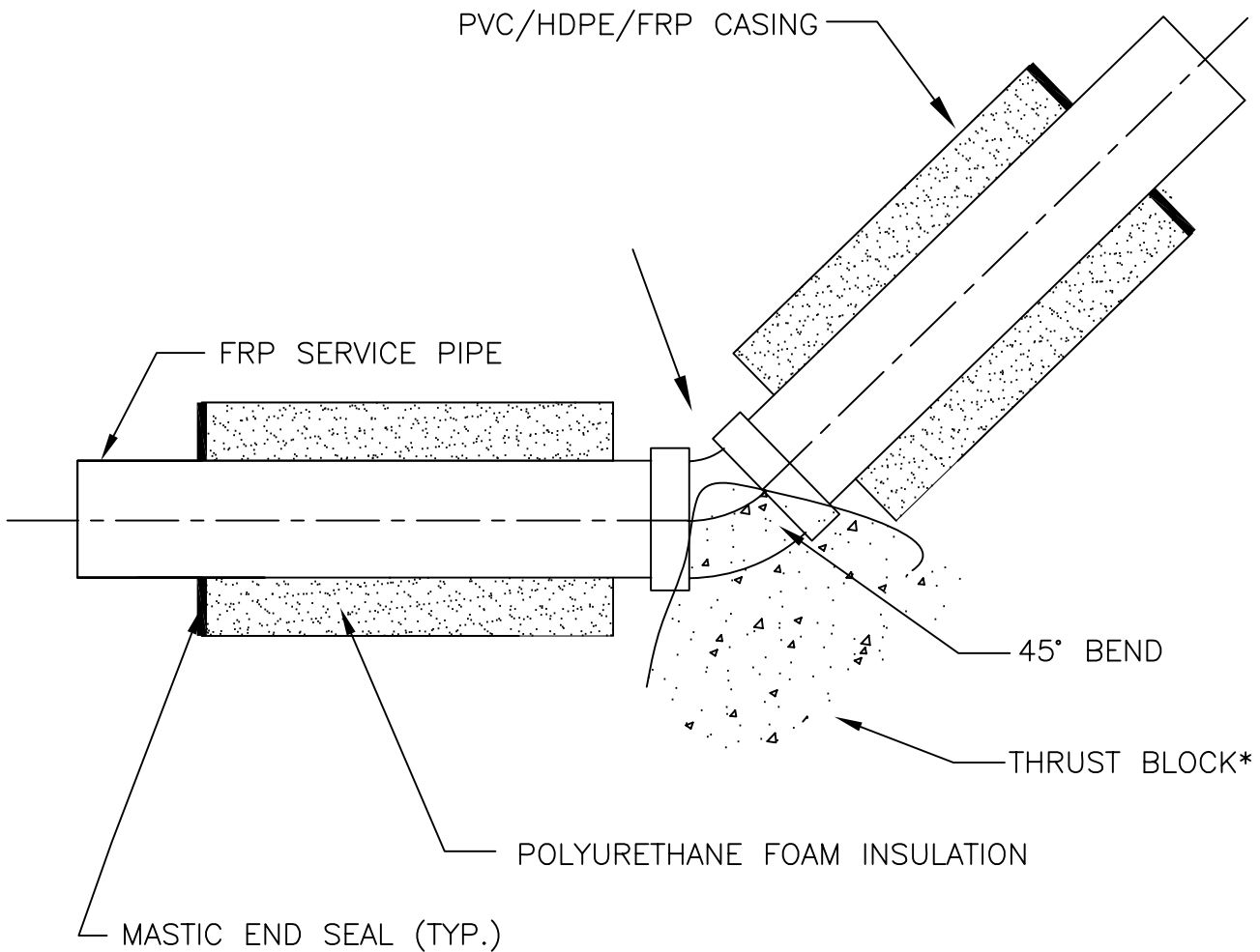
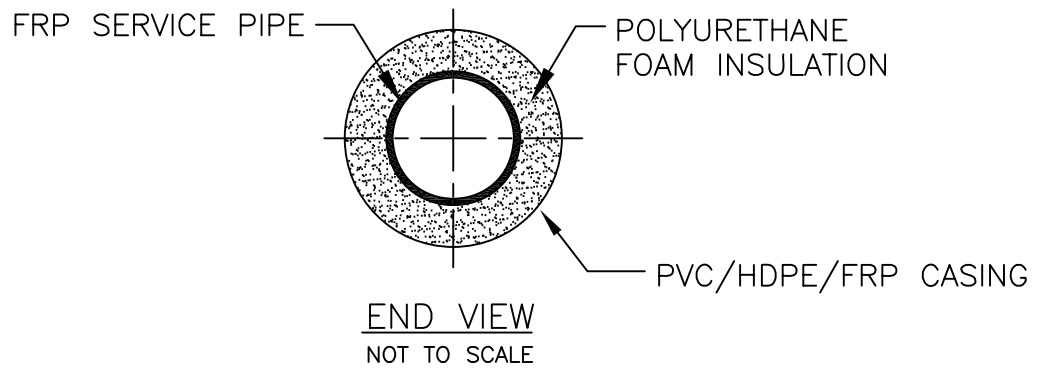
TRICON FRP

Date: 03/09/06

Dwg. No.: FRP-2

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AND SOIL CONDITIONS.

FRP 45° BEND DETAIL

TRICON FRP

Date: 03/09/06

Dwg. No.: FRP-3

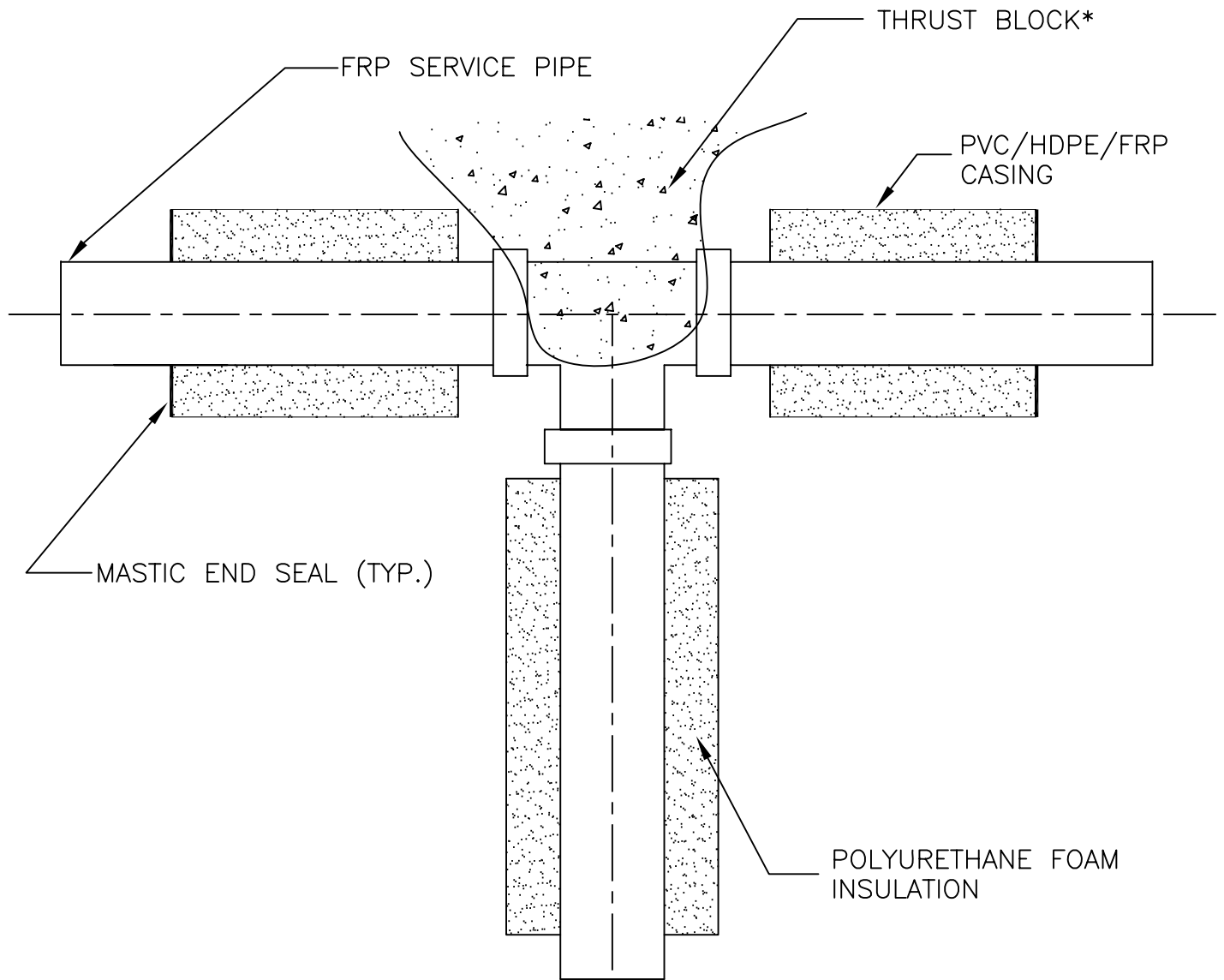
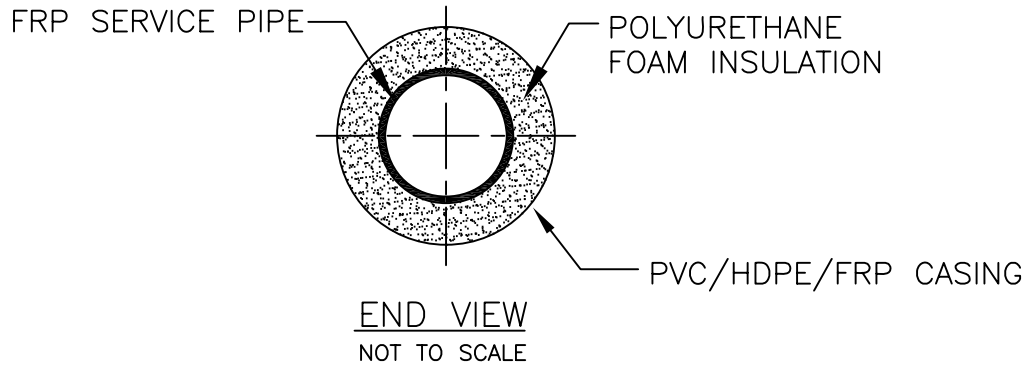
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* THRUST BLOCKING MAY BE REQUIRED FOR HOT WATER SYSTEMS
CONTACT DESIGN ENGINEER FOR THRUST BLOCK DESIGN, SIZING,
AND SOIL CONDITIONS.

FRP TEE DETAIL

TRICON FRP

Date: 03/09/06

Dwg. No.: FRP-4

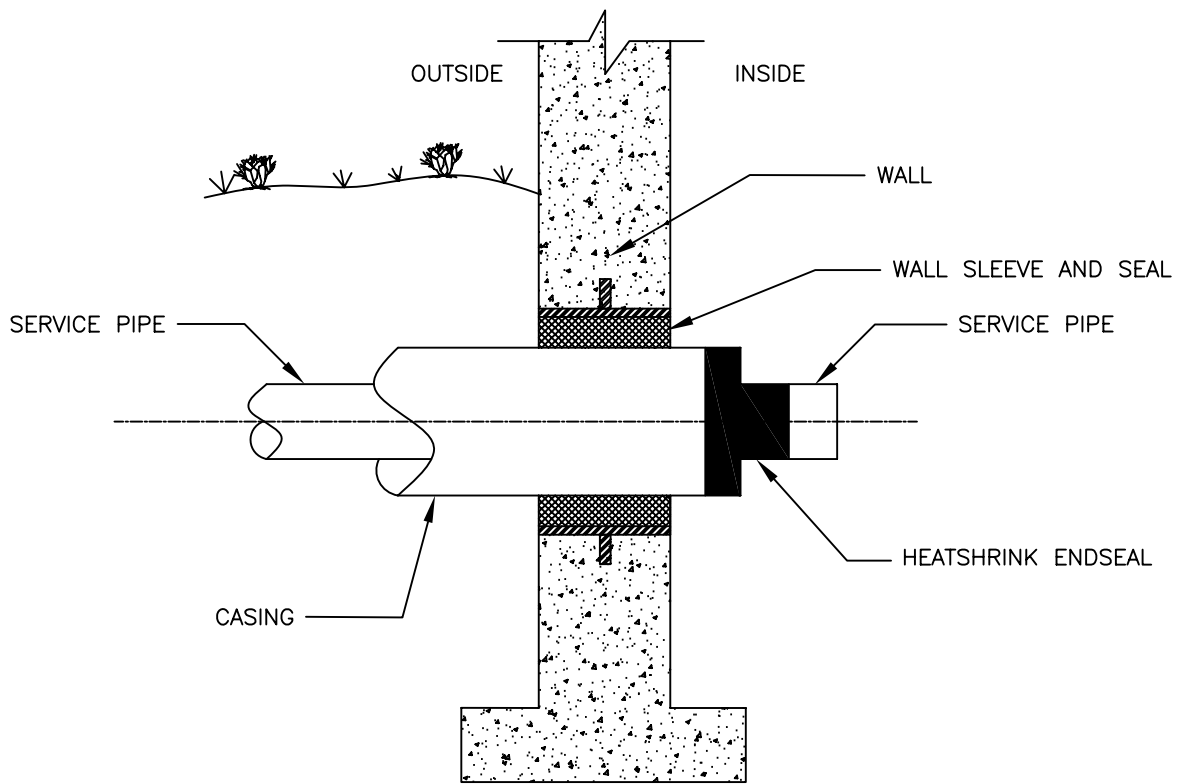
Rev.:



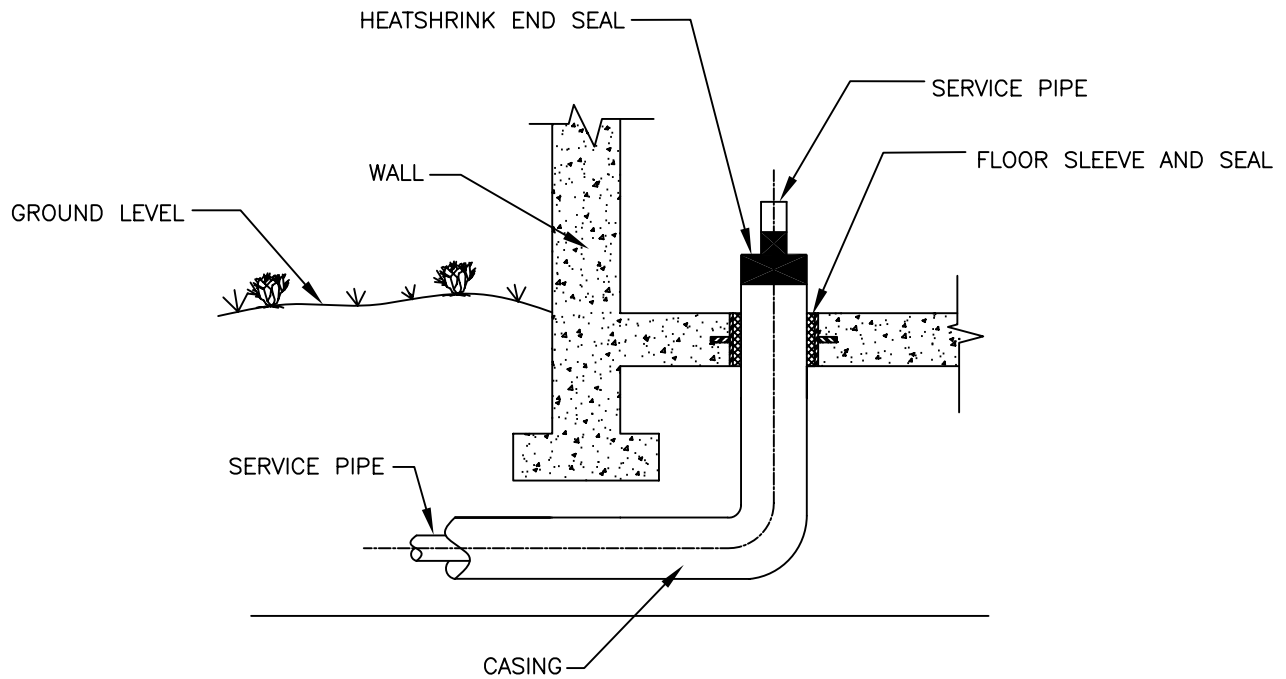
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WALL PENETRATION DETAIL



BUILDING RISER DETAIL

HEATSHRINK END SEAL DETAIL

TRICON FRP

Date: 03/09/06

Dwg. No.: FRP-5

Rev.:



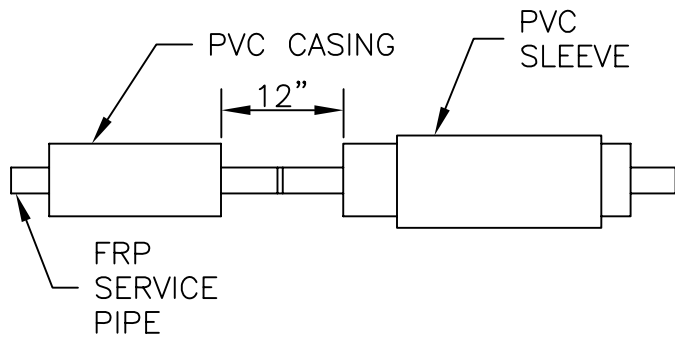
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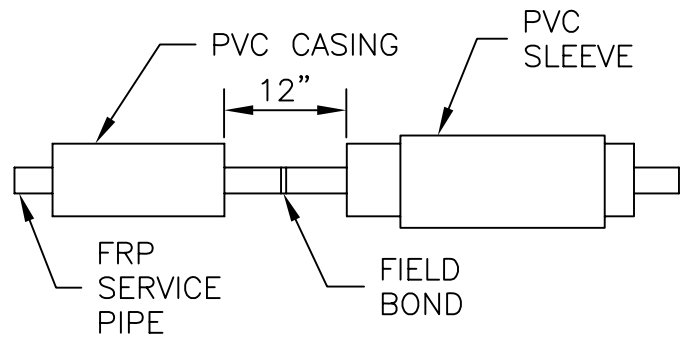
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PHASE 1



PRIOR TO BONDING FRP SERVICE PIPE, SLIDE PVC SLEEVE OVER PVC CASING.

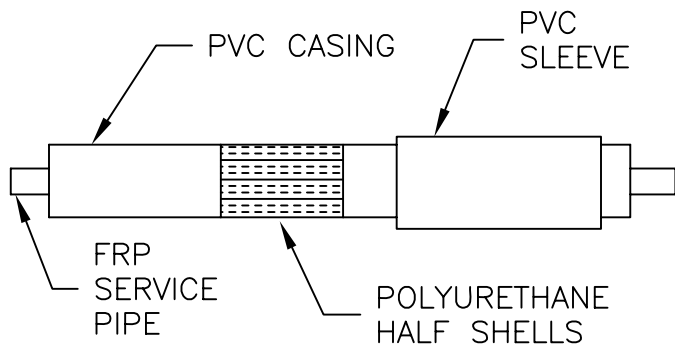
PHASE 2



HYDRO TEST ALL JOINTS AS REQUIRED.

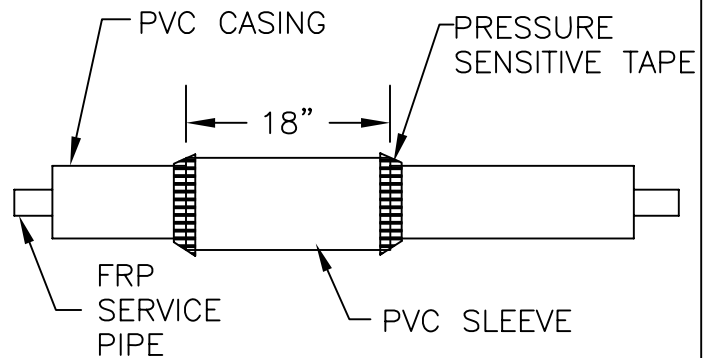
DO NOT TEST WITH AIR OR GAS

PHASE 3



FIT POLYURETHANE FOAM HALF SHELLS OVER SERVICE PIPE AND SECURE IN PLACE. SLIDE PVC SLEEVE ONTO CENTER OF JOINT OVER INSULATION.

PHASE 4



APPLY A WRAP OF PRESSURE SENSITIVE TAPE AROUND THE AREA WHERE THE CASING AND SLEEVE MEET. ALLOW A 2" OVERLAP OF TAPE ONTO BOTH SURFACES.

IN COLDER WEATHER, TAPE MUST BE KEPT WARM UNTIL TIME OF USE.

TRICON FRP FIELD JOINT KIT DETAIL WITH RIGID POLYURETHANE FOAM & PVC CASING



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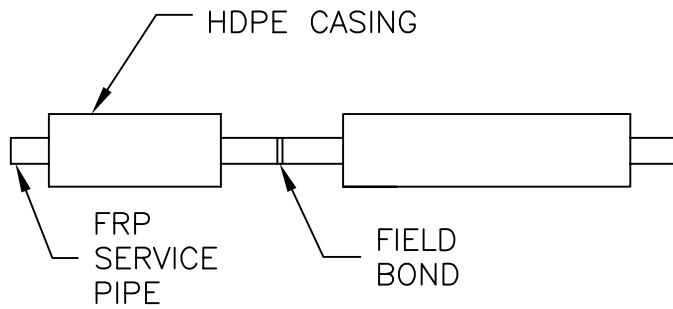
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Date: 03/09/06 Dwg. No. FRP-6A

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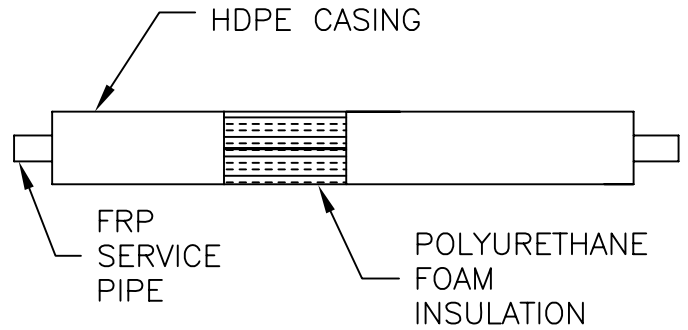
PHASE 1



AFTER BONDING SERVICE PIPE, HYDRO TEST PER RECOMMENDATIONS.

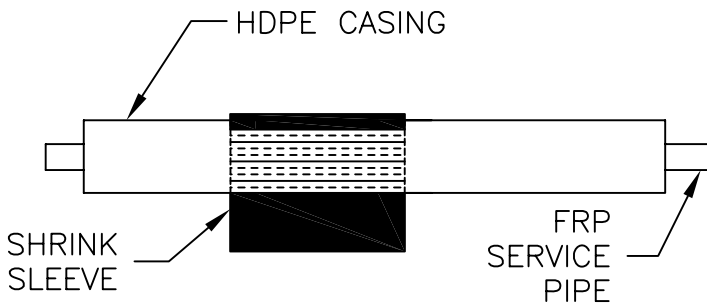
DO NOT TEST WITH AIR OR GAS

PHASE 2



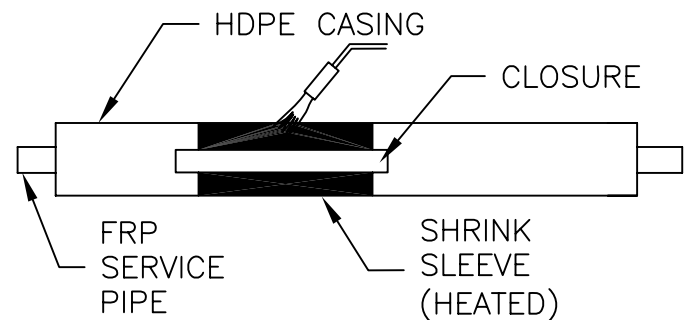
INSTALL RIGID URETHANE INSULATION IN PLACE TO PIPE AND SECURE.

PHASE 3



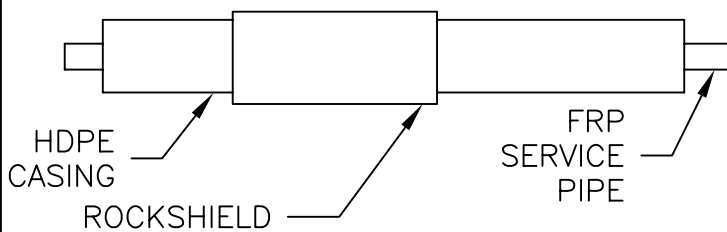
REMOVE RELEASE LINER AND PLACE SHRINK SLEEVE AROUND JOINT AND PIPE INSULATION. OVERLAP SLEEVE AT THE 10 TO 12 O'CLOCK POSITION. GENTLY HEAT BACKING OF SLEEVE AND CLOSURE. PRESS THE CLOSURE FIRMLY INTO PLACE. GENTLY HEAT CLOSURE AND PAT DOWN WITH HAND

PHASE 4



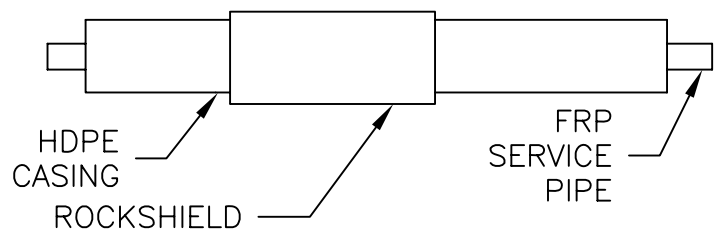
WITH LOW YELLOW FLAME, HEAT THE SHRINK SLEEVE FROM THE MIDDLE TOWARD EACH SIDE OF THE SLEEVE UNTIL RECOVERY IS COMPLETE. SHRINKING HAS BEEN COMPLETED WHEN ADHESIVE OZZES FROM SIDES. AVOID EXCESSIVE HEAT TO OVERLAP AREA.

PHASE 5



SLIDE HDPE ROCKSHIELD OVER JOINT SO THAT SHRINK SLEEVE IS COMPLETELY COVERED.

PHASE 6



SECURE HDPE ROCKSHIELD IN PLACE. FIELD JOINT IS NOW COMPLETE.

TRICON FRP FIELD JOINT KIT DETAIL WITH RIGID POLYURETHANE FOAM & HDPE CASING



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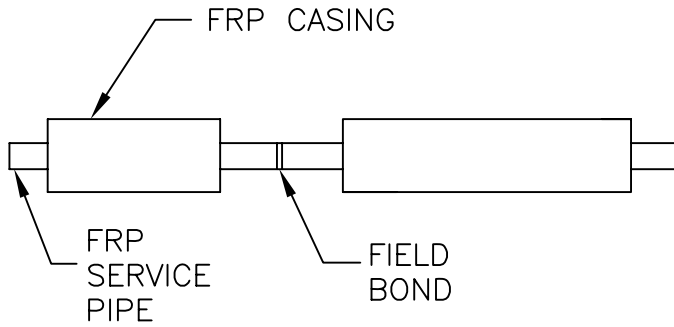
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TRICON FRP

Date: 03/09/06 Dwg. No. :FRP-6B

Rev.:

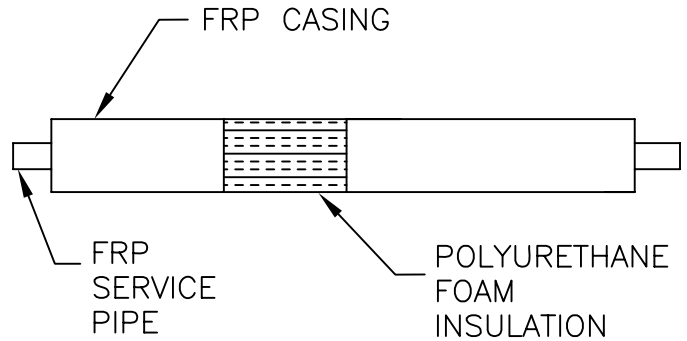
PHASE 1



AFTER BONDING SERVICE PIPE, HYDRO TEST PER RECOMMENDATIONS.

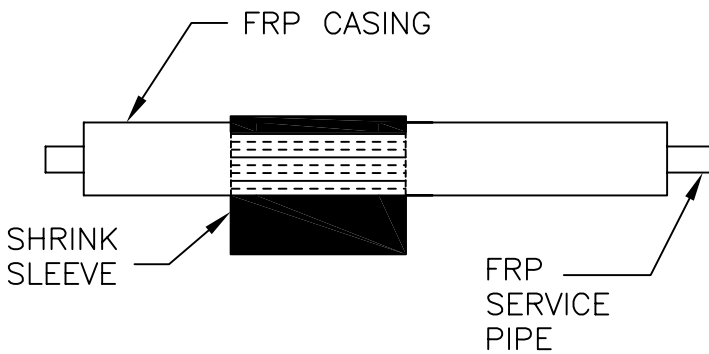
DO NOT TEST WITH AIR OR GAS

PHASE 2



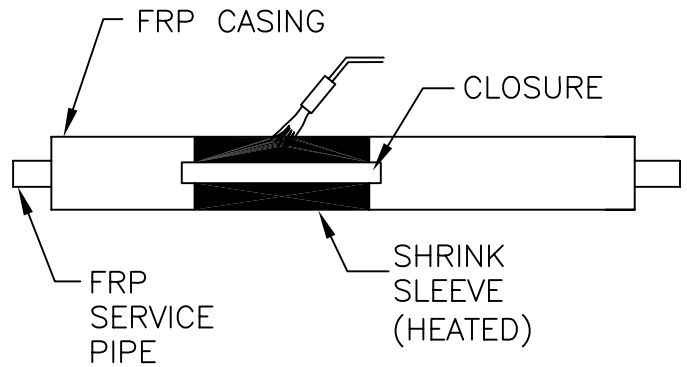
INSTALL RIGID URETHANE INSULATION IN PLACE TO PIPE AND SECURE.

PHASE 3



REMOVE RELEASE LINER AND PLACE SHRINK SLEEVE AROUND JOINT AND PIPE INSULATION. OVERLAP SLEEVE AT THE 10 TO 12 O'CLOCK POSITION. GENTLY HEAT BACKING OF SLEEVE AND CLOSURE. PRESS THE CLOSURE FIRMLY INTO PLACE. GENTLY HEAT CLOSURE AND PAT DOWN WITH HAND

PHASE 4



WITH LOW YELLOW FLAME, HEAT SHRINK SLEEVE USING CIRCUMFERENTIAL STROKES. SHRINKING HAS BEEN COMPLETED WHEN ADHESIVE OOZES FROM SIDES. AVOID EXCESSIVE HEAT TO OVERLAP AREA. DO NOT BACKFIL UNTIL SHRINKSLEEVE IS COOL TO THE TOUCH.

TRICON FRP FIELD JOINT KIT DETAIL WITH RIGID POLYURETHANE FOAM & FRP CASING



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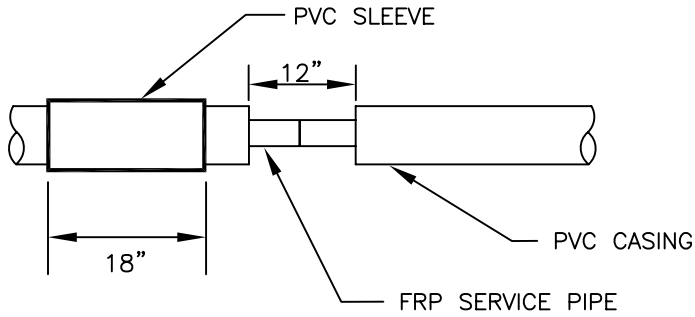
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TRICON FRP

Date: 03/09/06 Dwg. No.:FRP-6C

Rev.:

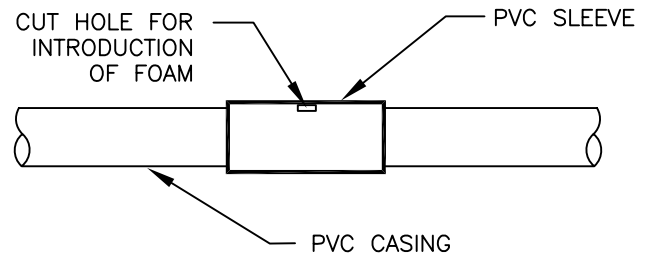
STEP 1



SLIDE PVC SLEEVE OVER END OF PIPE CASING. HYDRO-TEST ALL BONDED JOINTS AS REQUIRED.

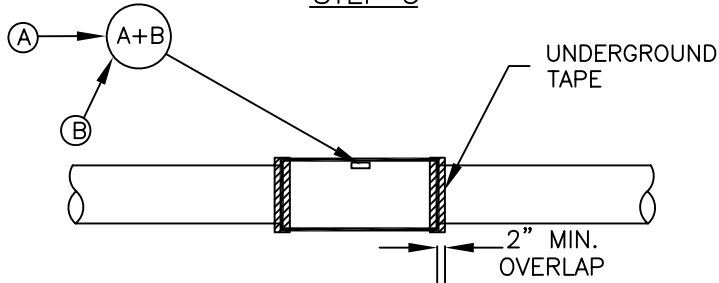
DO NOT TEST WITH AIR OR GAS

STEP 2



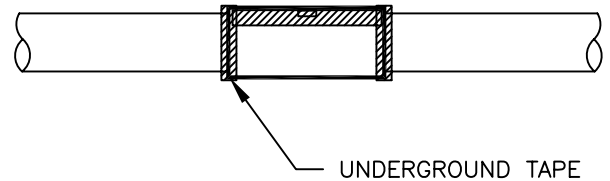
CENTER PVC SLEEVE OVER JOINT AND SECURE IN PLACE. CUT HOLE IN TOP OF PVC SLEEVE FOR INTRODUCTION OF POLYURETHANE FOAM MIXTURE.

STEP 3



APPLY UNDERGROUND TAPE WHERE PVC SLEEVE AND CASING MEET. PROVIDE FOR A MINIMUM OVERLAP OF 2". REFER TO CHART BELOW FOR FOAM AMOUNT BASED ON JACKET SIZE. POUR FOAM INTO OPENING. WHEN FOAM REACTS, TEMPORARILY SEAL THE OPENING WITH DUCT TAPE TO MAXIMIZE INSULATION IN CAVITY.

STEP 4



TRIM OFF EXCESS MATERIAL AFTER CURING IS COMPLETE. APPLY ADDITIONAL UNDERGROUND TAPE TO HOLE IN PVC SLEEVE.

POLYURETHANE FOAM MIXTURE CHART

JACKET SIZE	FIELD JOINT
3	3
4	4
5	5
6	6
8	8
10	10
12	12
14	14
16	16

CHART INDICATES THE PROPORTIONS OF EACH COMPONENT (NAMESLY "A" & "B") TO BE MIXED PRIOR TO INTRODUCTION INTO PIPE CAVITY. A NOMINAL INSULATION THICKNESS OF 1-1/2" IS ASSUMED FOR THE PURPOSES OF THIS CHART. FOR THICKNESS OTHER THAN 1-1/2", CONTACT TRICON FOR QUANTITIES. EXAMPLE: FOR AN 8 INCH JACKET, 8 OUNCES OF "A" AND 8 OUNCES OF "B" ARE REQUIRED. REQUIRED PROPORTIONS MAY VARY AS A RESULT OF CHANGES IN WEATHER CONDITIONS. NOTE THAT CHEMICAL REACTION WILL TAKE LONGER IN COLDER WEATHER. CONTACT TRICON FOR ADVICE DURING INCLEMENT WEATHER.

IN COLDER WEATHER, TAPE MUST BE KEPT WARM UNTIL TIME OF USE.

FRP FIELD JOINT DETAIL – POUR IN PLACE INSULATION

TRICON FRP

Date: 03/09/06

Dwg. No. FRP-6D

Rev.:

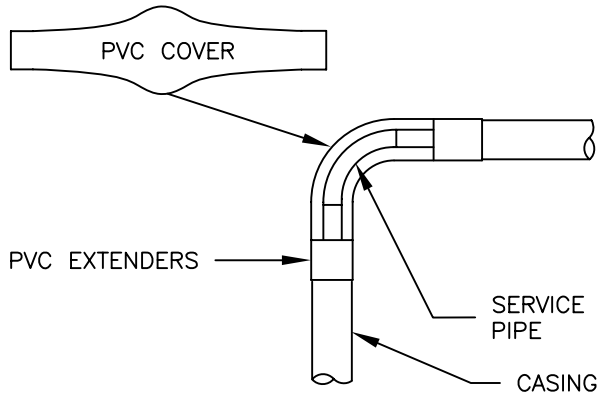


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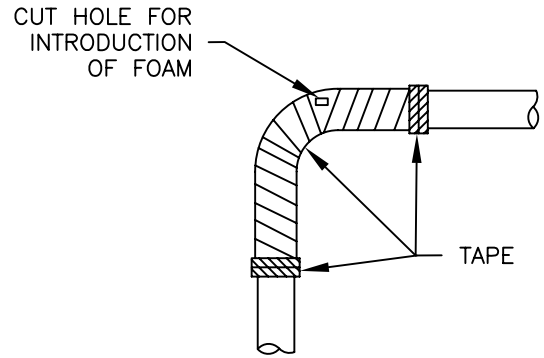
STEP 1



IF REQUIRED, SLIDE PVC EXTENDERS OVER END OF PIPE PRIOR TO ELBOW BEING BONDED INTO POSITION. TEST JOINT AS REQUIRED.

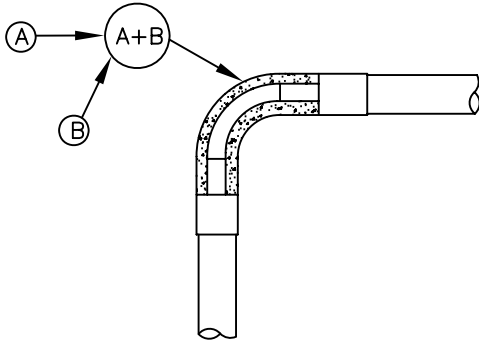
DO NOT TEST WITH AIR OR GAS

STEP 2



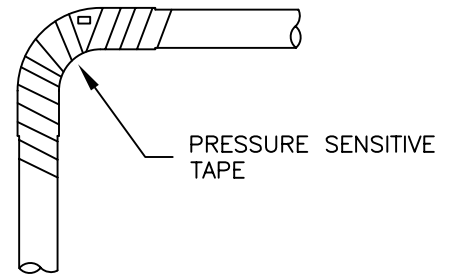
POSITION AND SECURE PVC ELBOW COVER. CUT SMALL OPENING IN COVER FOR INTRODUCTION OF FOAM.

STEP 3



REFER TO CHART BELOW FOR FOAM AMOUNT BASED ON JACKET SIZE. POUR FOAM INTO OPENING. WHEN FOAM REACTS, TEMPORARILY SEAL THE OPENING WITH DUCT TAPE TO MAXIMIZE INSULATION IN CAVITY

STEP 4



TRIM OFF EXCESS MATERIAL AFTER CURING IS COMPLETE. WRAP FITTING WITH PRESSURE SENSITIVE TAPE AS SHOWN.

IN COLDER WEATHER, TAPE MUST BE KEPT WARM UNTIL TIME OF USE.

POLYURETHANE FOAM MIXTURE CHART

JACKET SIZE	ELBOW
3	7
4	7
5	9
6	6
8	6
10	20
12	30
14	40
16	50

CHART INDICATES THE PROPORTIONS OF EACH COMPONENT (NAMELY "A" & "B") TO BE MIXED PRIOR TO INTRODUCTION INTO PIPE CAVITY. EXAMPLE: FOR AN 8 INCH JACKET.

6 OUNCES OF "A" AND 6 OUNCES OF "B" ARE REQUIRED. REQUIRED PROPORTIONS MAY VARY AS A RESULT OF CHANGES IN WEATHER CONDITIONS. NOTE THAT CHEMICAL REACTION WILL TAKE LONGER IN COLDER WEATHER.

CONTACT TRICON FOR ADVICE DURING INCLEMENT WEATHER.

TRICON LOW TEMP FIELD INSULATED ELBOW FITTING KIT DETAIL WITH PVC JACKET

TRICON FRP

Date: 03/09/06

Dwg. No. FRP-7A

Rev.:

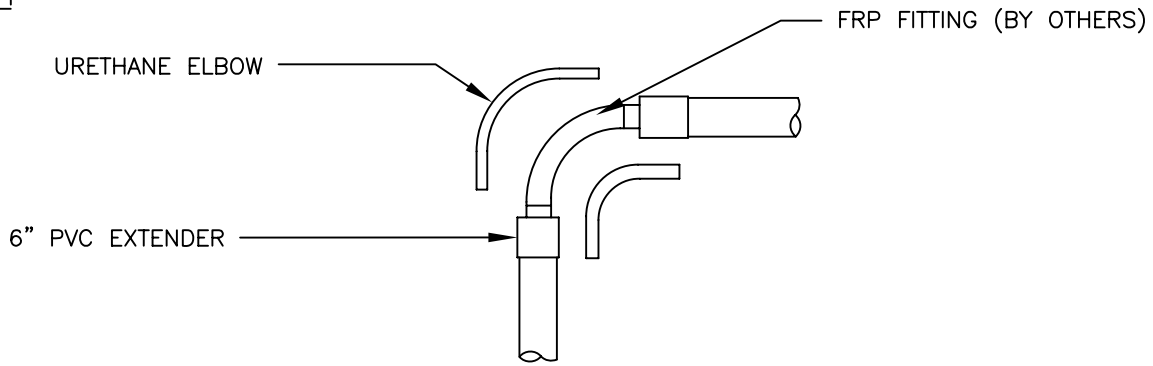


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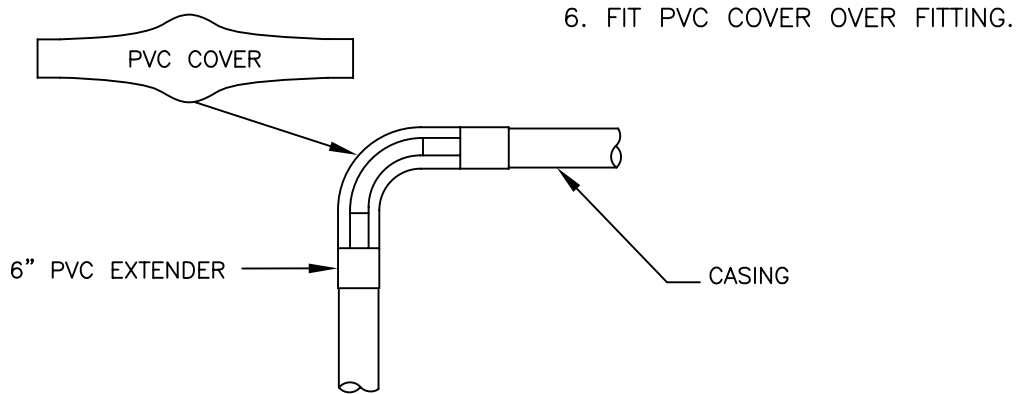
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STEP 1



1. SLIDE 6" PVC SLEEVE EXTENDERS ONTO END OF PIPE CASING BEFORE ELBOW IS BONDED.
2. TEST ALL BONDED JOINTS AS REQUIRED. **DO NOT TEST WITH AIR OR GAS**
3. FIT POLYURETHANE FOAM INSULATION OVER FITTING AND SECURE IN PLACE.
4. CUT AND FIT STRAIGHT PIPE COVERING INTO PLACE THAT URETHANE ELBOW DOES NOT COVER.
5. SLIDE EXTENDERS IN PLACE AND SECURE WITH POLYKEN TAPE.

STEP 2



STEP 3



7. WRAP FITTING WITH PRESSURE SENSITIVE TAPE AS SHOWN.

TRICON FRP FIELD INSULATED ELBOW
FITTING KIT DETAIL WITH RIGID INSULATION.

TRICON FRP

Date: 03/09/06 Dwg. No. FRP-7B

Rev.:

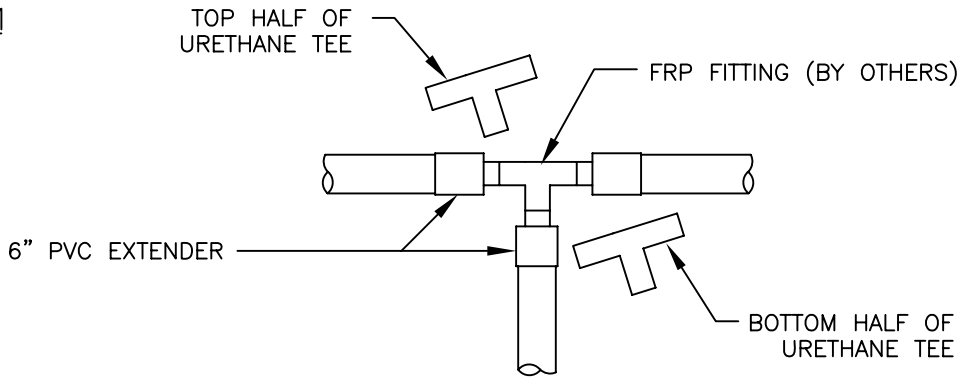


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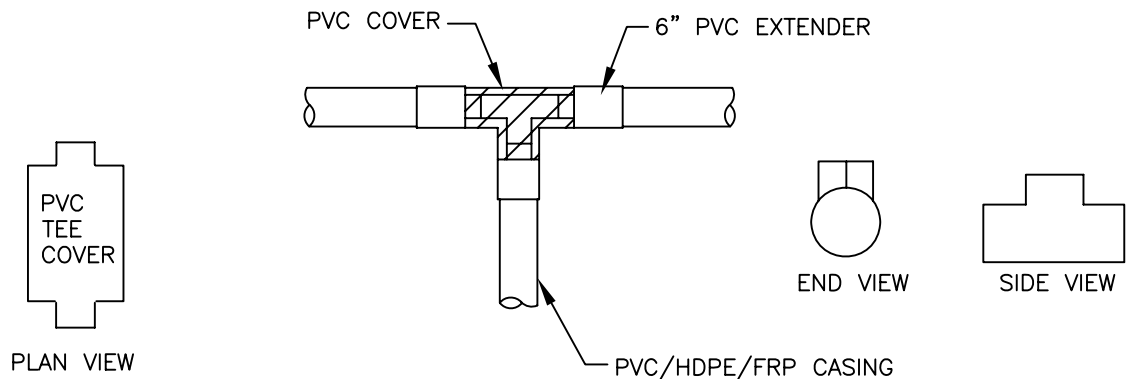
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STEP 1



1. SLIDE 6" PVC EXTENDERS ONTO END OF PIPE CASING BEFORE TEE IS BONDED.
2. HYDRO-TEST ALL BONDED JOINTS AS REQUIRED. **DO NOT TEST WITH AIR OR GAS**
3. FIT POLYURETHANE FOAM INSULATION OVER FITTING AND SECURE IN PLACE.
4. CUT AND FIT STRAIGHT PIPE COVERING INTO PLACE THAT URETHANE TEE DOES NOT COVER.
5. SLIDE EXTENDERS IN PLACE AND SECURE WITH POLYKEN TAPE.

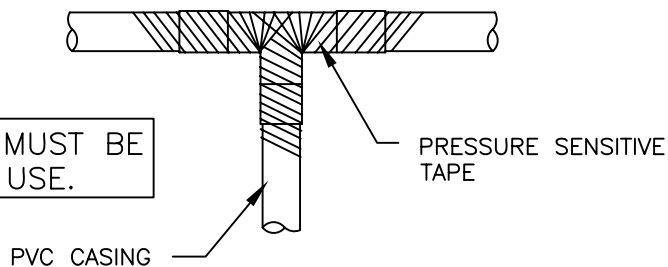
STEP 2



6. FIT PVC COVER OVER FITTING.

STEP 3

IN COLDER WEATHER, TAPE MUST BE KEPT WARM UNTIL TIME OF USE.



7. SPIRALLY WRAP FITTING WITH PRESSURE SENSITIVE TAPE AS SHOWN.

FRP FIELD INSULATED TEE
FITTING KIT DETAIL WITH RIGID INSULATION



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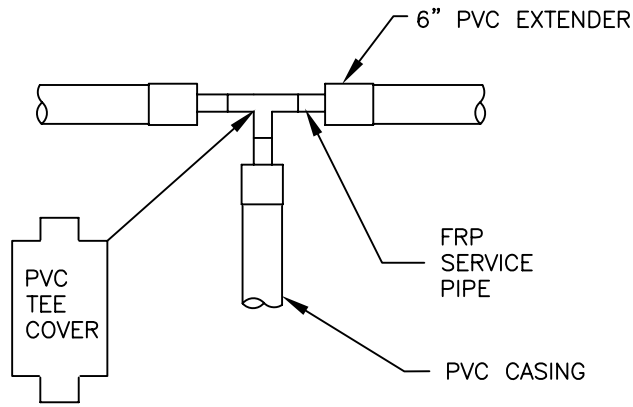
TRICON FRP

Date: 03/09/06

Dwg. No. FRP-8A

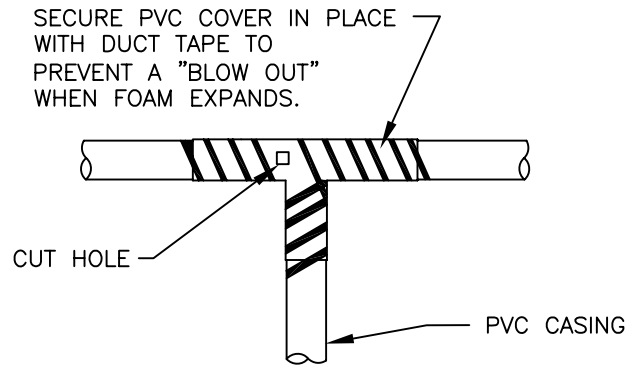
Rev.:

STEP 1



IF REQUIRED, SLIDE PVC EXTENDERS OVER END OF PIPE PRIOR TO ELBOW BEING BONDED INTO POSITION.

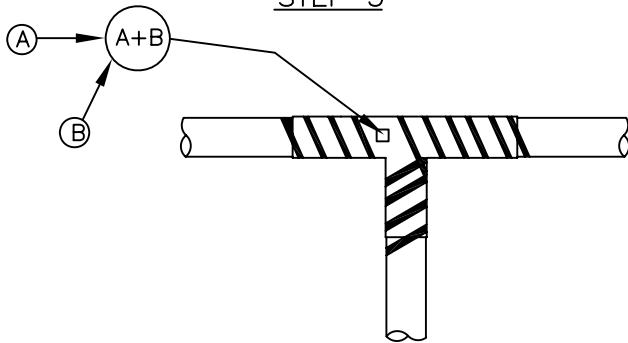
STEP 2



HYDRO-TEST ALL JOINTS AS REQUIRED. POSITION AND SECURE PVC TEE COVER. CUT SMALL OPENING IN COVER FOR INTRODUCTION OF FOAM.

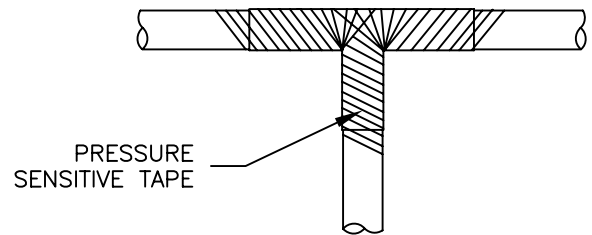
DO NOT TEST WITH AIR OR GAS

STEP 3



REFER TO CHART BELOW FOR FOAM AMOUNT BASED ON JACKET SIZE. POUR FOAM INTO OPENING. WHEN FOAM REACTS, TEMPORARILY SEAL THE OPENING WITH DUCT TAPE TO MAXIMIZE INSULATION IN CAVITY.

STEP 4



TRIM OFF EXCESS MATERIAL AFTER CURING IS COMPLETE. WRAP FITTING WITH PRESSURE SENSITIVE TAPE AS SHOWN

IN COLDER WEATHER, TAPE MUST BE KEPT WARM UNTIL TIME OF USE.

POLYURETHANE FOAM MIXTURE CHART

JACKET SIZE	TEE
4	4
5	6
6	8
8	14
10	20
12	32
14	41
16	55

CHART INDICATES THE PROPORTIONS OF EACH COMPONENT (NAMELY "A" & "B") TO BE MIXED PRIOR TO INTRODUCTION INTO PIPE CAVITY. EXAMPLE: FOR AN 8 INCH JACKET, 14 OUNCES OF "A" AND 14 OUNCES OF "B" ARE REQUIRED. PROPORTIONS MAY VARY AS A RESULT OF CHANGES IN WEATHER CONDITIONS. NOTE THAT CHEMICAL REACTION WILL TAKE LONGER IN COLDER WEATHER. CONTACT TRICON FOR ADVICE DURING INCLEMENT WEATHER

TRICON FRP FIELD INSULATED TEE DETAIL

TRICON FRP

Date: 03/09/06

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