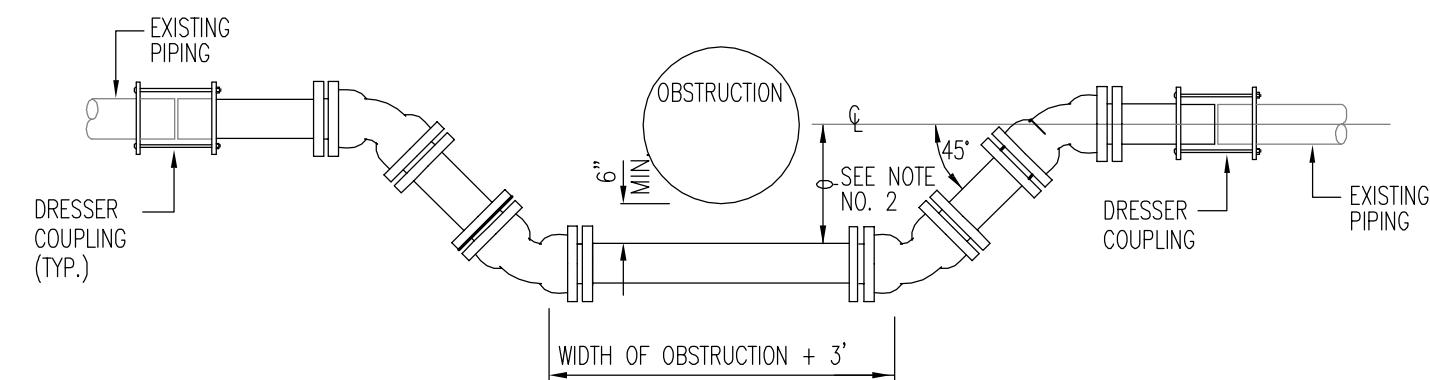


NOTE: WATER MAINS AND SERVICE MAINS SHALL BE INSULATED WITH A  
MINIMUM 3" URETHANE

### WATER PIPE JOINTS

SCALE: 1/2"=1'-0"

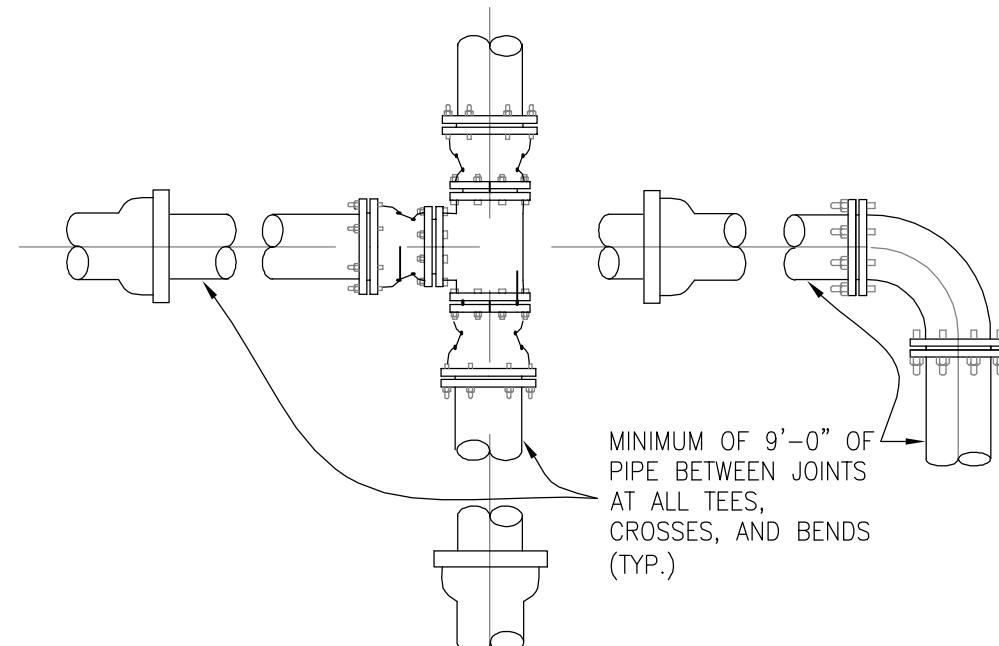
1  
W101



### TYPICAL RELOCATION DETAIL

SCALE: 1/2"=1'-0"

4  
W101

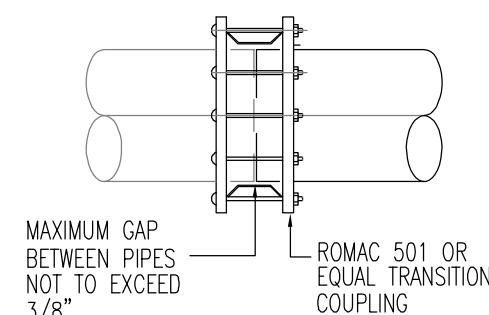


MINIMUM OF 9'-0" OF  
PIPE BETWEEN JOINTS  
AT ALL TEES,  
CROSSES, AND BENDS  
(TYP.)

### PIPE LENGTHS REQUIRED AT TEES AND ELBOWS

SCALE: 3/8"=1'-0"

2  
W101



### ADAPTATION - STEEL TO DUCTILE IRON PIPE

SCALE: 3/8"=1'-0"

3  
W101

### NOTES:

1. OFFSET DISTANCE SHALL BE MINIMUM NECESSARY  
TO ACHIEVE MINIMUM CLEARANCE.
2. ALL JOINTS SHALL BE RESTRAINED AS NECESSARY.
3. PROVIDE CONCRETE THRUST BLOCKS OR THRUST  
RODS BASED ON WATER PRESSURE, SOIL CONDITIONS  
AND DU STANDARDS.
4. PROVIDE TRACER WIRE FOR CONNECTION TO NEW/EXIST.  
WIRE.
5. FOR DIRECT BURIED PIPING REPAIR SEE DWG. W113