

PCU STANDARD NOTES

1. A PRECONSTRUCTION MEETING IS REQUIRED BEFORE BEGINNING WORK. THE MEETING MUST BE SCHEDULED WITH PENDER COUNTY UTILITIES (PCU) AT LEAST ONE WEEK IN ADVANCE. ATTENDEES MUST INCLUDE PCU, THE SELECTED CONTRACTOR'S SUPERINTENDENT, THE SUPPLIER, AND THE CONSULTING ENGINEER.
2. ALL MATERIALS USED SHALL CONFORM TO PENDER COUNTY UTILITIES REQUIREMENTS. NON-CONFORMING MATERIAL WILL NOT BE ACCEPTED FOR FINAL CERTIFICATION.
3. ALL PIPE SHALL BE PVC. PVC PIPE WITHIN A CASING TO BE C900 DR 18 (SEE PCU STANDARD DETAIL). ALL OTHER PVC PIPE TO BE SDR 21. THE USE OF DIP PIPE IS NOT ALLOWED. PCU MUST APPROVE THE USE OF DIP IN THE FIELD BEFORE INSTALLATION AND ONLY WHEN THERE ARE NO OTHER OPTIONS.
4. PCU STANDARD WATERLINE PIPE RESTRAINING METHOD IS MJ GRIP RINGS. AT A MINIMUM ALL FITTINGS, VALVES, ETC. MUST BE RESTRAINED. (SEE PCU STANDARD DETAIL).
5. PCU MUST INSPECT CASING INSTALLATIONS PRIOR TO BACK-FILL. PCU MUST WITNESS PRESSURE TESTS, AND WITHDRAWAL OF BACTERIOLOGICAL SAMPLES. CONTACT BOB FORAND TO SCHEDULE 910-259-0212.
6. CLOSE-OUT DOCUMENTS WHICH MUST BE RECEIVED PRIOR TO PCU SIGNING THE NC PWSS APPLICANT CERTIFICATION INCLUDE: BACTERIOLOGICAL TESTS, PRESSURE TESTS, DEED OF DEDICATION, AFIDAVIT/RELEASE OF LIENS, WARRANTY, AND RECORD DRAWINGS (PDF & CAD).
7. AN 18 MONTH WARRANTY PERIOD APPLIES TO ALL WATERLINE CONSTRUCTION. THIS WARRANTY PERIOD DOES NOT BEGIN UNTIL FINAL APPROVAL OF THE SYSTEM HAS BEEN RECEIVED FROM NC PWSS.

PENDER COUNTY UTILITIES
605 EAST FREMONT STREET
BURGAW, NC 28425



STANDARD NOTES
PCU WATER SYSTEMS
VERSION #1 - OCTOBER 2015

PIPE DIAMETER (INCHES)	D. I. P.				P. V. C.			
	90°	45°	22 1/2°	11 1/4°	90°	45°	22 1/2°	11 1/4°
3"	30'	15'	10'	5'	40'	20'	10'	5'
4"	35'	15'	10'	5'	55'	25'	15'	10'
6"	55'	25'	10'	5'	80'	35'	20'	10'
8"	65'	30'	15'	10'	90'	40'	20'	10'
10"	80'	35'	20'	10'	110'	50'	25'	15'
12"	95'	40'	20'	10'	130'	55'	30'	15'
16"	120'	50'	25'	15'	165'	70'	35'	20'
20"	150'	65'	30'	15'	200'	85'	40'	20'
24"	180'	70'	35'	20'	210'	90'	45'	25'
30"	190'	80'	40'	20'	250'	100'	50'	25'
36"	220'	95'	45'	25'	0	0	0	0
42"	245'	105'	50'	25'	0	0	0	0
48"	250'	120'	60'	30'	0	0	0	0

Restrained lengths for valves, dead ends and branches from less shall be the same as for 90° (degree) bends

PIPE DIAMETER (INCHES)	Restrained Length In Feet For Reducer									
	3"	4"	6"	8"	10"	12"	16"	20"	24"	30"
3"	0	0	0	0	0	0	0	0	0	0
4"	40'	0	0	0	0	0	0	0	0	0
6"	50'	45'	0	0	0	0	0	0	0	0
8"	75'	70'	40'	0	0	0	0	0	0	0
10"	95'	90'	70'	40'	0	0	0	0	0	0
12"	120'	115'	100'	75'	40'	0	0	0	0	0
16"	160'	155'	140'	125'	100'	70'	0	0	0	0
20"	200'	195'	180'	170'	150'	130'	75'	0	0	0
24"	160'	155'	150'	140'	130'	120'	90'	50'	0	0
30"	195'	190'	185'	180'	170'	160'	120'	100'	70'	0
36"	225'	220'	215'	210'	205'	195'	180'	150'	125'	70'
42"	245'	240'	235'	230'	225'	220'	205'	180'	155'	105'
48"	255'	250'	245'	240'	235'	230'	215'	195'	175'	125'

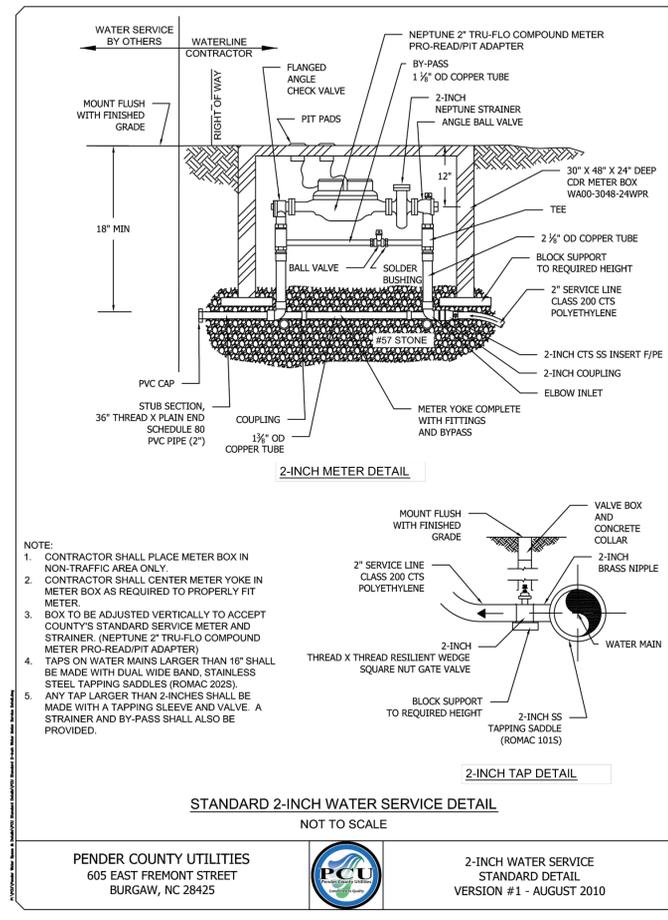
Length of restrained joint for larger diameter pipe

- NOTES:
1. PENDER COUNTY STANDARD RESTRAINT METHOD IS MJ "GRIP RING" TYPE. ALL RJ TO BE MJ "GRIP RING" TYPE, UNLESS SPECIFICALLY APPROVED BY PCU IN WRITING.
 2. ALL FITTINGS AND JOINTS SHALL BE RESTRAINED JOINT.
 3. "L" ABOVE IS GIVEN IN FEET FROM FITTING JOINT.

PENDER COUNTY UTILITIES
605 EAST FREMONT STREET
BURGAW, NC 28425

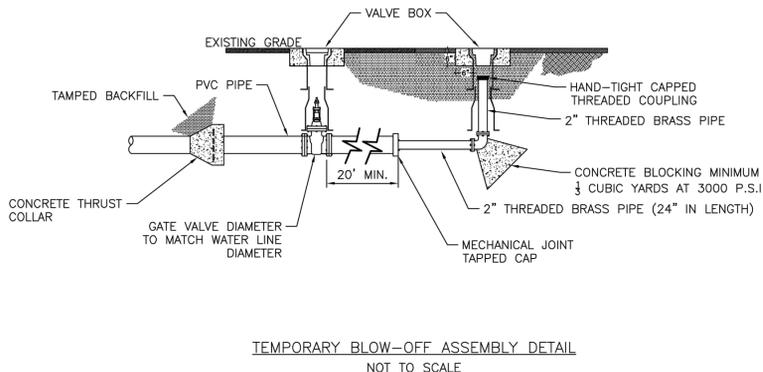


RESTRAINED JOINT TABLE
STANDARD DETAIL
VERSION #1 - OCTOBER 2015



NOTE:

1. ALL PVC SHALL BE RESTRAINED PER THE RESTRAINED LENGTH SCHEDULE PROVIDED ELSEWHERE.
2. A BLOW OFF MARKER SHALL BE PLACED ON THE RIGHT OF WAY AT EACH BLOW.
3. BLOW OFF MARKER TO BE SAME DESIGN AS VALVE MARKER EXCEPT DENOTE "BO" ON MARKER RATHER THAN "MV"



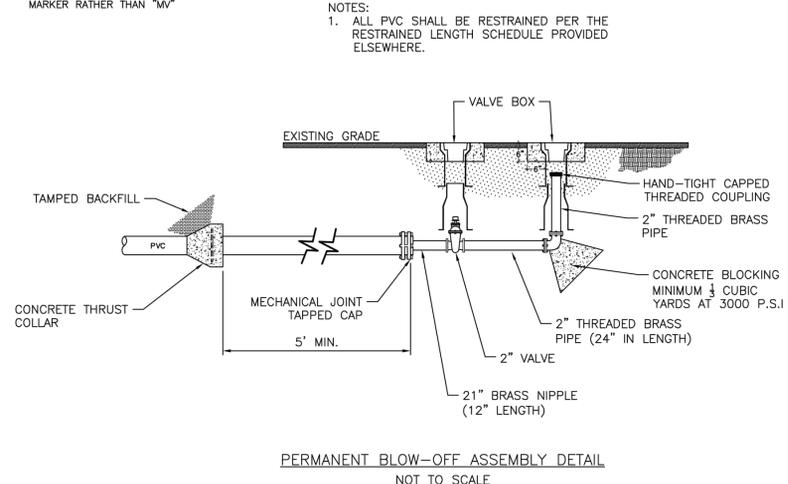
PENDER COUNTY UTILITIES
605 EAST FREMONT STREET
BURGAW, NC 28425



TEMPORARY BLOW-OFF ASSEMBLY
STANDARD DETAIL
VERSION #1 - SEPTEMBER 2015

NOTE:

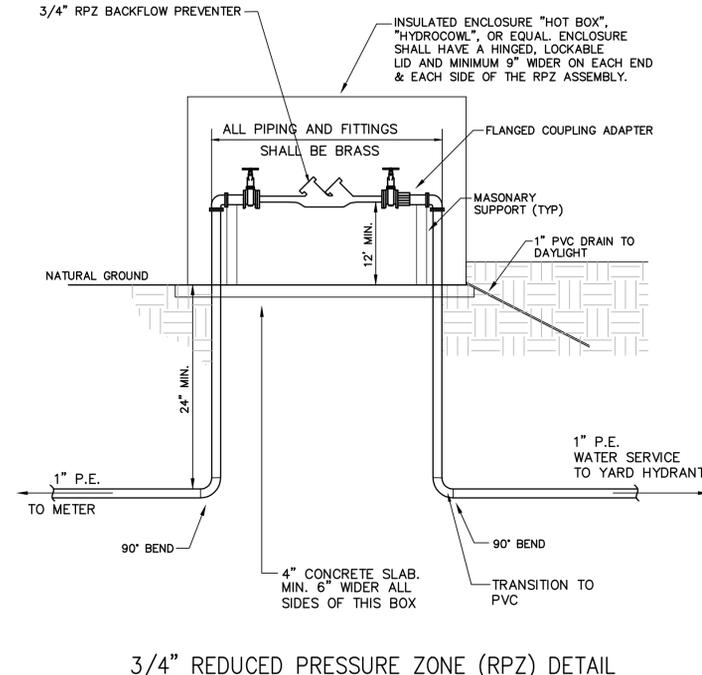
1. A BLOW OFF MARKER SHALL BE PLACED ON THE RIGHT OF WAY AT EACH BLOW.
2. BLOW OFF MARKER TO BE SAME DESIGN AS VALVE MARKER EXCEPT DENOTE "BO" ON MARKER RATHER THAN "MV"



PENDER COUNTY UTILITIES
605 EAST FREMONT STREET
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PERMANENT BLOW-OFF ASSEMBLY
STANDARD DETAIL
VERSION #1 - SEPTEMBER 2015



NOTE: 12 GAUGE THIN TRACER WIRE SHALL BE REQUIRED FOR WATERLINES.

REV. NO.	DESCRIPTIONS	DATE
1	BLAKE FARM SF-1 PHASE 1B, 2, and 3 LOT 5 (2025) SUBMITTAL TO PENDER TRC AND PERMITTING AGENCIES	05/13/2016
2	REVISIONS	

FINAL PLANS
DO NOT USE FOR
CONSTRUCTION

05/13/2016
022574
05/13/2016

MCKIM & CREED
243 North Front Street
Wilmington, North Carolina 28401
Phone: (910)343-1048, Fax: (910)251-8282
NC LIC. No. F-1222
www.mckimcreed.com

Trask Land CO INC
1202 Eastwood Road
Wilmington, NC 28403
(910) 799-8755

BLAKE FARM

BLAKE FARM SF-1 SUBDIVISION
TOPSAIL TOWNSHIP
PENDER COUNTY NORTH CAROLINA
WATER UTILITY DETAILS

DATE: 13 MAY 2016	SCALE: N/A	MAC FILE NUMBER: CU502
MCE PROJ # 06525-0004	HORIZONTAL: N/A	DRAWING NUMBER: 58
DRAWN: RMC, MAB, CDN	VERTICAL: N/A	
DESIGNED: RMC, MAB, CDN		
CHECKED: RMC, RAM, NJL		
PROJ. MGR. RMC		

STATUS: FINAL PLANS
NOT FOR CONSTRUCTION

REVISION: A