

## EXPLANATION OF THE FOLLOWING PLANS

ON THE FOLLOWING PAGES ARE SAMPLE PLANS FOR A DRIP IRRIGATION SYSTEM ON A STEEP SLOPE ABOVE A RETAINING WALL.

1. THE PLANTING PLAN IS TO PROVIDE REFERENCE FOR HELP UNDERSTANDING THE DRIP SYSTEM DESIGN.
2. THE EMITTERS ARE PRESSURE COMPENSATING TYPE IN ORDER TO CREATE BETTER UNIFORMITY OF FLOW ON THE SLOPED AREAS. IF NON-COMPENSATING EMITTERS WERE USED THE EMITTERS AT THE BOTTOM OF THE SLOPE WOULD PUT OUT A LOT MORE WATER THAN THOSE AT THE TOP, DUE TO GREATER WATER PRESSURE AT THE BOTTOM.
3. THE CHECK VALVES PREVENT THE WATER IN THE TUBES LOCATED HIGHER ON THE SLOPE FROM DRAINING DOWN TO THE LOWER LEVEL, WHERE THE WATER WOULD RUN OUT OF THE EMITTERS AND CREATE WET SPOTS.
4. THE EMITTERS ARE 1/2 GPH FLOW, WHICH IS LOWER THAN THE NORMAL 1 GPH OFTEN USED. ON SLOPES IT IS ADVISABLE TO USE A LOWER FLOW RATE EMITTER TO REDUCE THE POSSIBILITY OF THE WATER RUNNING OFF. THE SOIL AT THIS SITE HAS GOOD PERMEABILITY. WITH CLAY SOILS IT WOULD BE ADVISABLE TO USE AN EVEN LOWER FLOW RATE THAN USED HERE.
5. THE DRIP TUBES ARE STAKED TO THE GROUND USING METAL STAPLES. THIS IS VERY IMPORTANT ON SLOPES IN ORDER TO KEEP THE DRIP TUBES IN PLACE.
6. THIS SYSTEM USES A "REDUCED PRESSURE TYPE" BACKFLOW PREVENTER BECAUSE THE EMITTERS ARE HIGHER THAN THE BACKFLOW PREVENTER. USE OF THE PROPER TYPE OF BACKFLOW PREVENTER IS CRITICAL.
7. A FILTER IS INSTALLED TO REDUCE EMITTER CLOGGING FROM PARTICULATES IN THE WATER SUPPLY.
8. THE PRESSURE REGULATOR REDUCES THE WATER PRESSURE TO THE PROPER LEVEL FOR BEST EMITTER OPERATION. USE A TOP QUALITY PRESSURE REGULATOR FOR DRIP IRRIGATION SYSTEMS ON SLOPES.
9. IT IS CRITICAL THAT THE PROPER SIZE FITTINGS BE USED FOR THE DRIP TUBING. IF THE FITTING SIZE IS OFF BY EVEN A MILIMETER THE TUBES WILL BLOW OUT OF THE FITTINGS.
10. THE PURPOSE OF THE JUTE EROSION CONTROL FABRIC IS TO PREVENT EROSION OF THE SLOPE. THE FABRIC CATCHES THE WATER AND HOLDS IT SO THAT IT HAS A BETTER CHANCE TO SOAK IN TO THE SOIL WITHOUT RUNNING OFF. USE OF JUTE FABRIC IS RECOMMENDED WITH MOST DRIP SYSTEMS ON SLOPES.
11. THE TUBES ARE PLACED ON TOP OF THE JUTE FABRIC. THE FABRIC UNDER THE TUBES HELPS PREVENT WATER FROM RUNNING ALONG THE BOTTOM OF THE TUBE TO THE LOWEST POINT.
12. SEE THE DRIP IRRIGATION GUIDELINES AT [IRRIGATIONTUTORIALS.COM](http://IRRIGATIONTUTORIALS.COM) FOR ADDITIONAL IMPORTANT INFORMATION.

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**Sample Drip System on Slope**

SAMPLE PLAN ONLY - NOT FOR CONSTRUCTION



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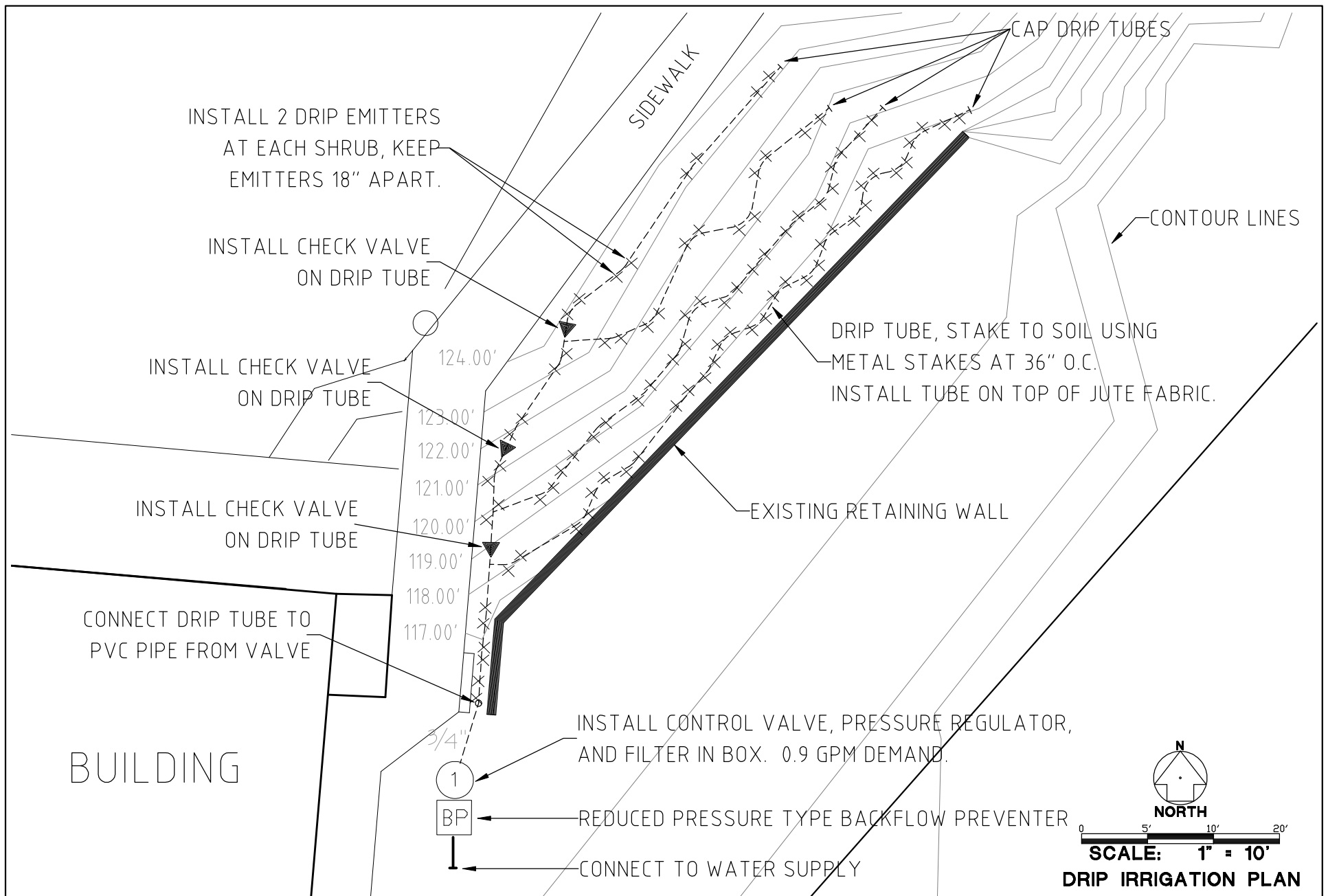
## PLANT LEGEND

	AGAVE ATTENUATA AGAVE	1 GALLON	2 EACH
	BACCHARIS PILULARIS 'TWIN PEAKS' DWARF COYOTE BUSH	1 GALLON	13 EACH
	CEANOTHUS 'SIERRA BLUE' SIERRA BLUE WILD LILAC	1 GALLON	5 EACH
	MYOPORUM PARVIFOLIUM 'PUTAH CREEK' PROSTRATE MYOPORUM	1 GALLON	16 EACH
	RHAMNUS CALIFORNICA COFFEEBERRY	1 GALLON	1 EACH
	RHUS INTEGRIFOLIA LEMONADE BERRY	1 GALLON	3 EACH
	ROMNEYA COULTERI MATILJA POPPY	1 GALLON	5 EACH

NOTE: THIS PLANTING SELECTION IS FOR THE SOUTHERN CALIFORNIA AREA.

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# IRRIGATION LEGEND

SYMBOL	DESCRIPTION	ESTIMATED QUANTITY
×	PRESSURE COMPENSATING EMITTER, 0.5 GPH AT 20-50 PSI. INSTALL 2 EMITTERS AT EACH SHRUB. USE OF 1/4" DISTRIBUTION TUBE IS PROHIBITED.	90 EACH
①	1" REMOTE CONTROL VALVE 200 MESH WYE FILTER 0.1 - 5.0 GPM PRESSURE REGULATOR, 30 PSI.	1 EACH
▼	1/2" SPRING CHECK VALVE. SET SPRING AT LOWEST TENSION THAT WILL CLOSE THE VALVE.	3 EACH
-----	15mm or 16mm DRIP TUBE. MAKE SURE FITTINGS USED ARE SAME SIZE AS TUBE. USE METRIC SIZE TUBE & FITTINGS.	
—————	SCH 40 PVC PIPE (MAINLINE), 18" BELOW FINISH GRADE.	
-----	SCH 40 PVC PIPE (LATERALS), 12" BELOW FINISH GRADE. 3/4" SIZE UNLESS NOTED. NO 1/2" PIPE PERMITTED.	

## DRIP IRRIGATION LEGEND

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