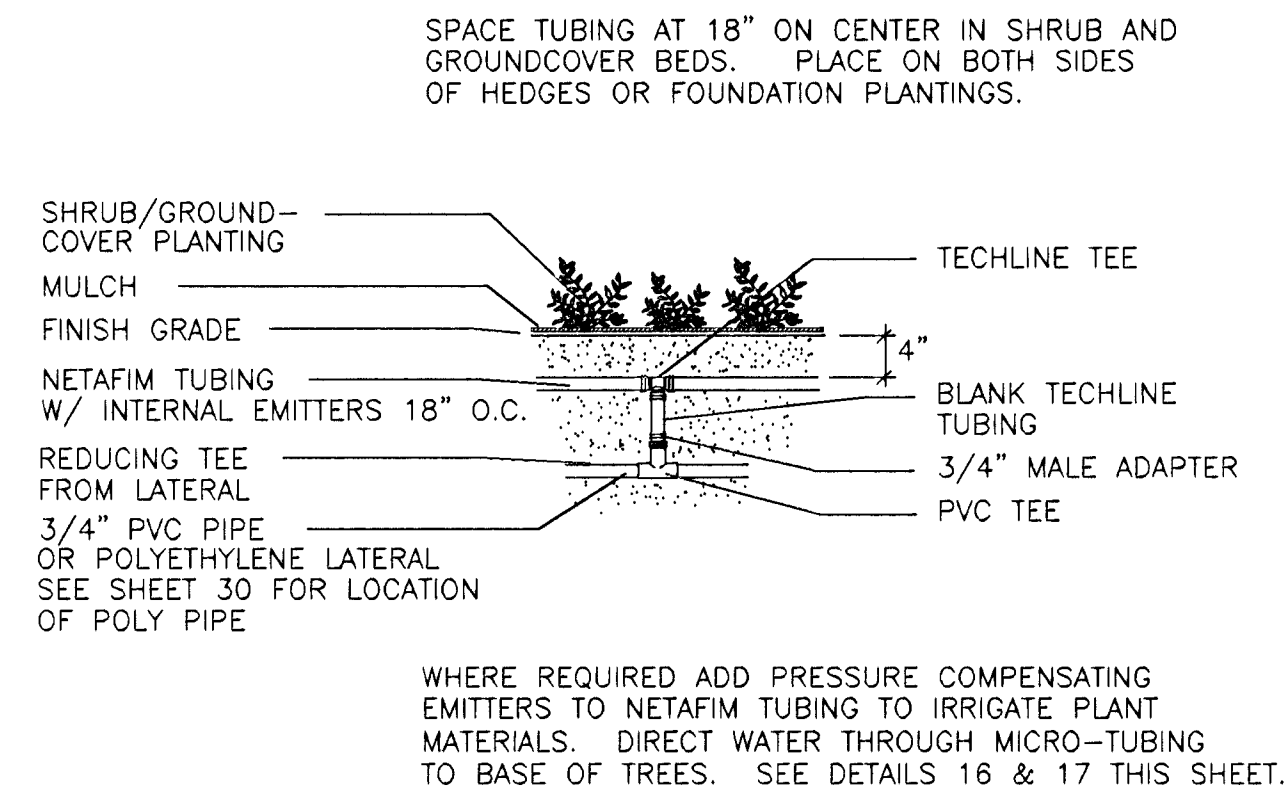
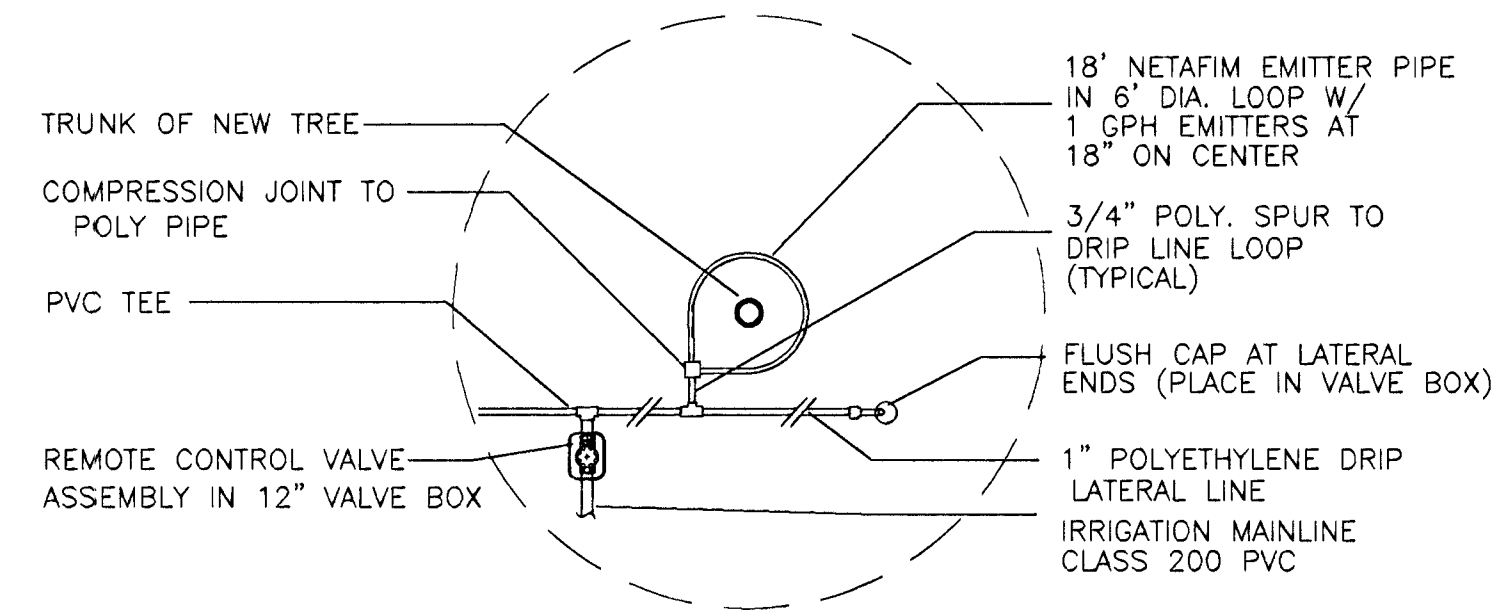


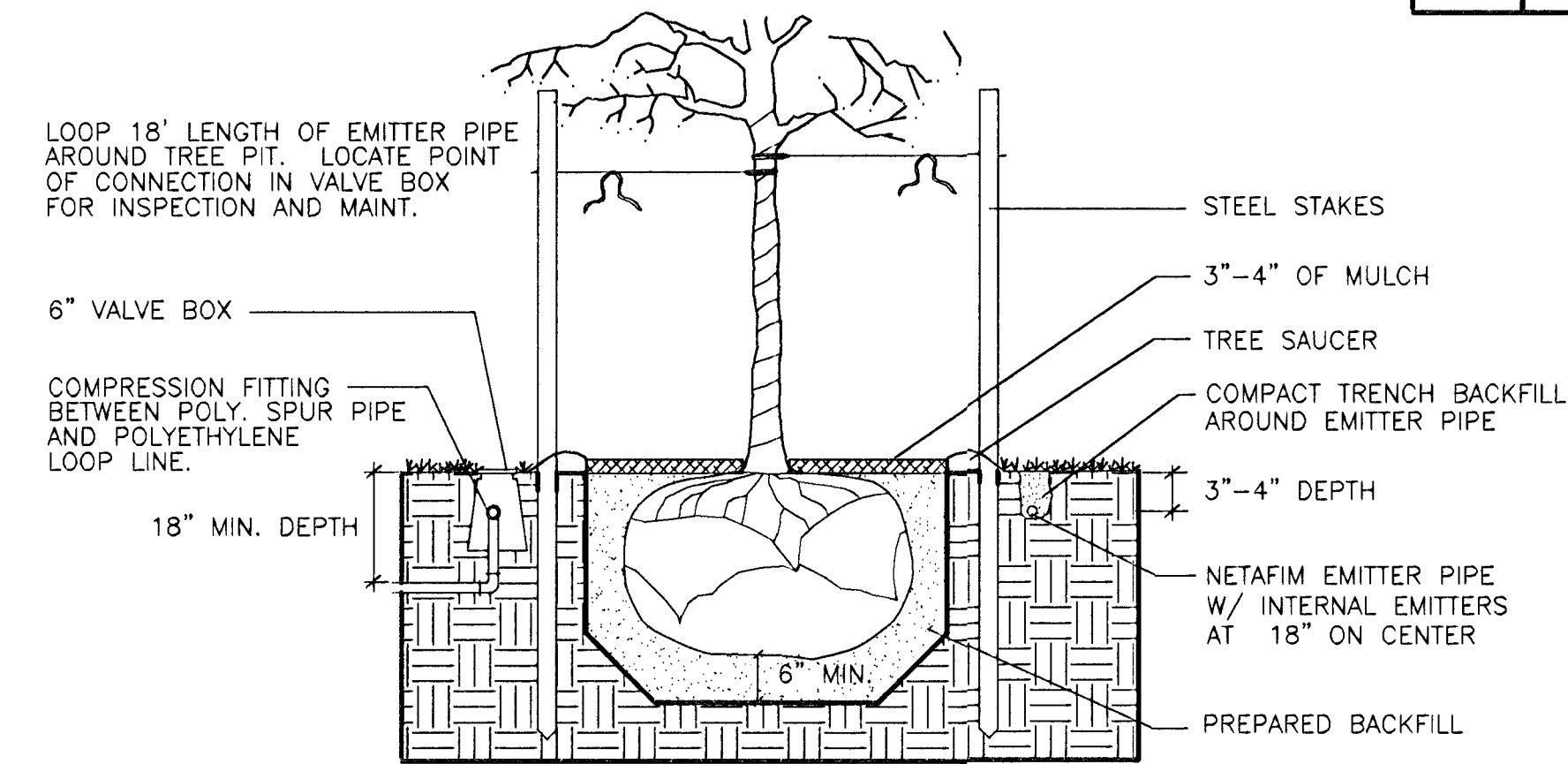
FHWA REG NO.	STATE	PROJECT NO.	YEAR	SHEET NO.	SHEETS
7	KANSAS	54-87-TE-0039-01	1997	36	43



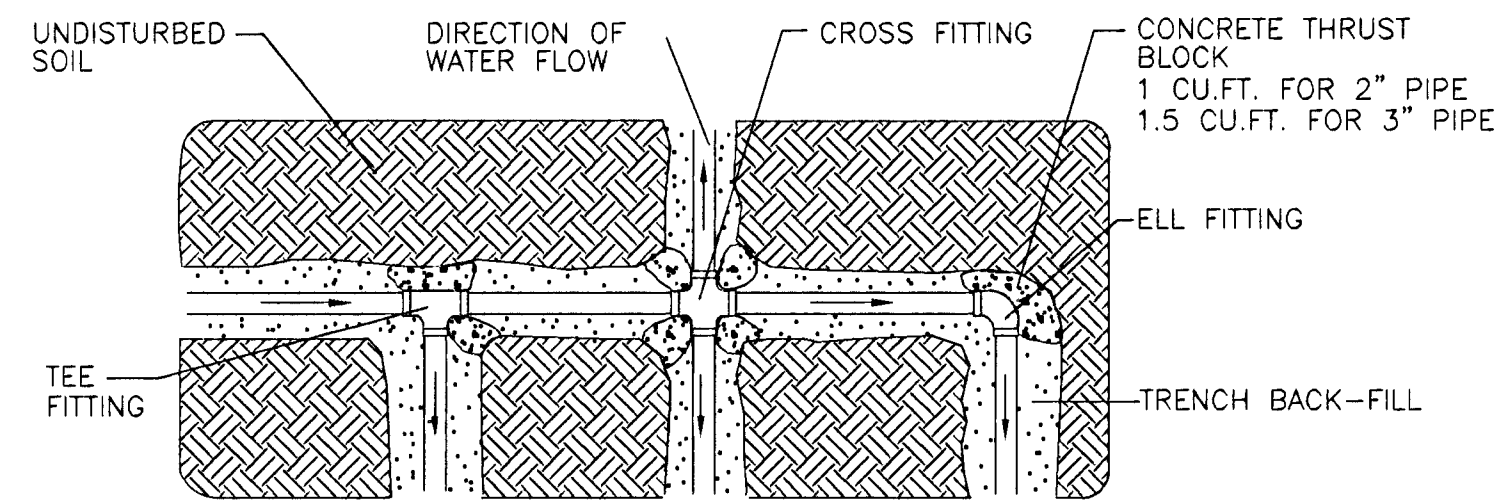
12 TECHLINE DRIP TUBE CONNECTION
NO SCALE



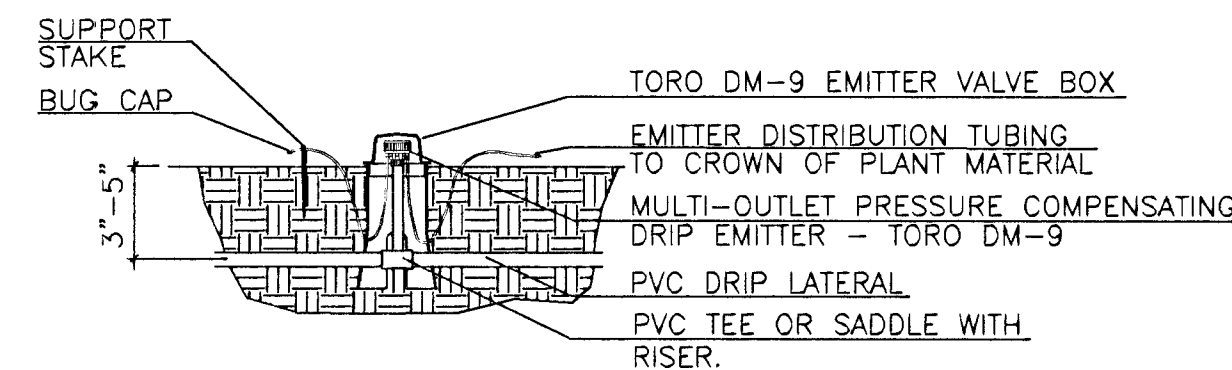
13 NETAFIM DRIPLINE LAYOUT AT NEW TREES
NO SCALE



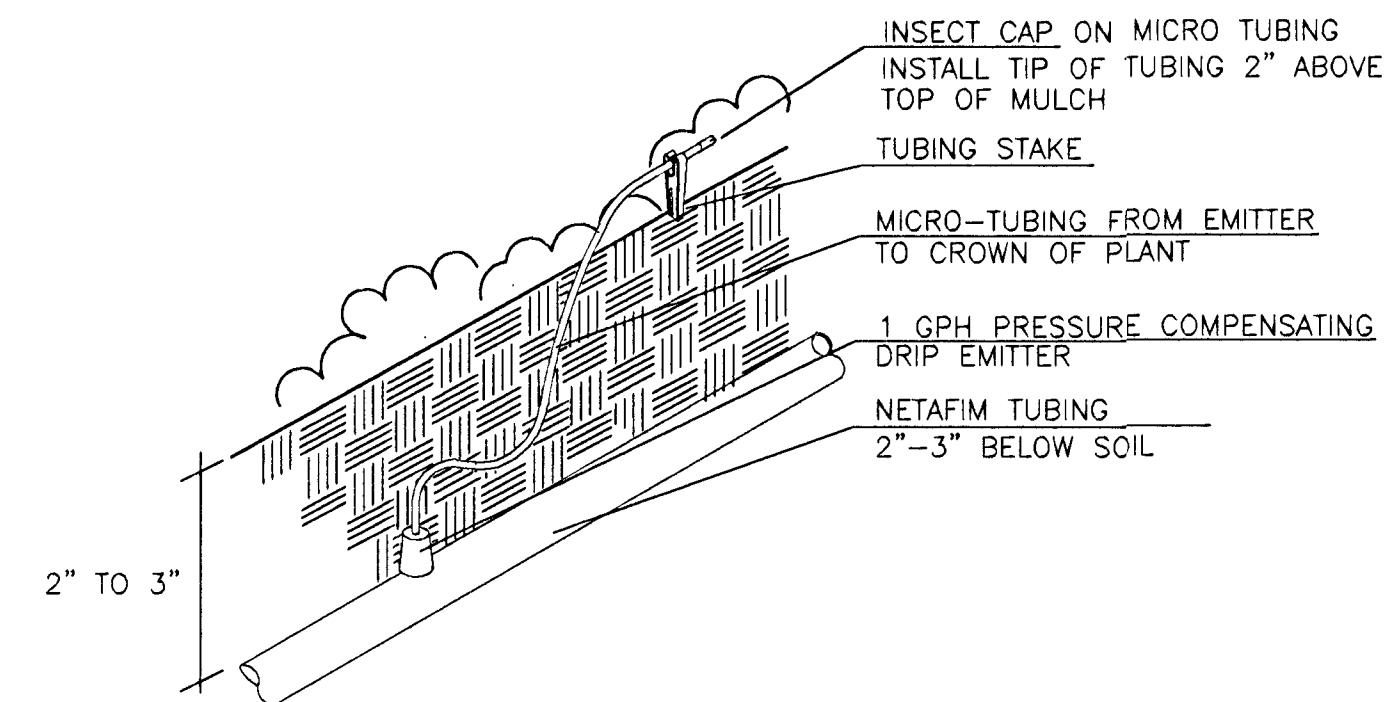
14 NETAFIM DRIPLINE LOOP AT NEW TREES - SECTION
DRIPLINE IRRIGATION ZONES ONLY
NO SCALE



15 CONCRETE THRUST BLOCKS AT MAINLINE
BOTH DRIP IRRIGATION MAINLINES AND IRRIGATION MAINLINES
NO SCALE



16 MULTI-OUTLET EMITTER INSTALLATION
SEE SHEETS 21 & 22 FOR LOCATIONS USING THIS DETAIL
NO SCALE



17 SINGLE DRIP EMITTER IN POLYETHYLENE PIPE
SEE SHEETS 21 & 22 FOR LOCATIONS USING THIS DETAIL
NO SCALE

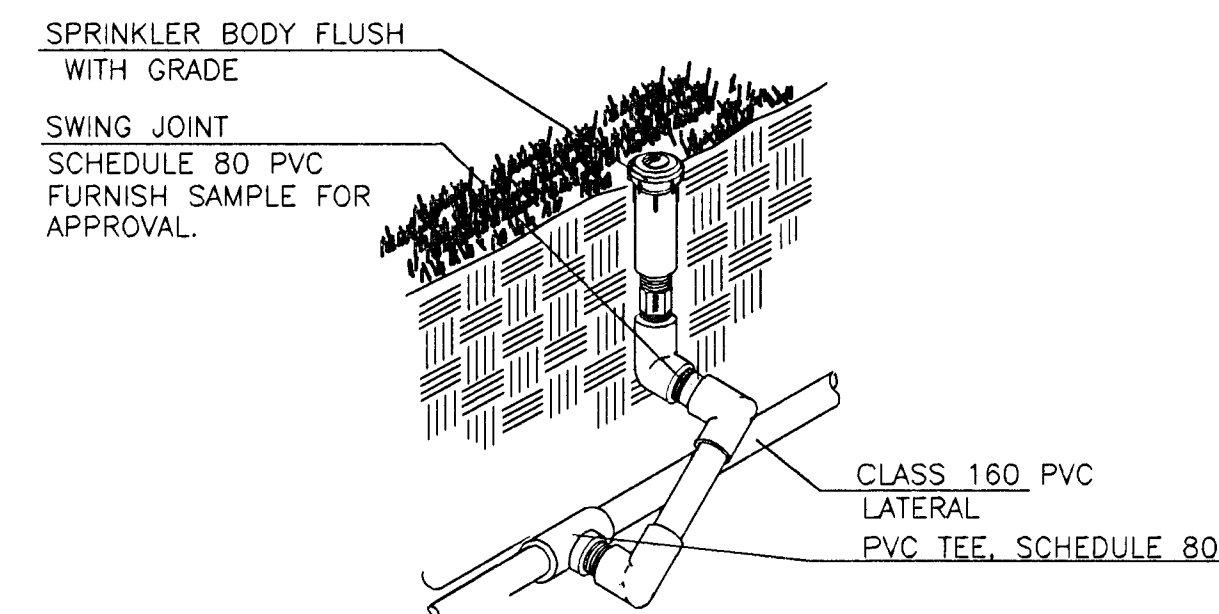
SUMMARY OF TYPES OF PIPE AND TUBING

MAINLINE - CLASS 200 PVC
LATERAL LINE - CLASS 160 PVC
LATERAL LINE - POLYETHYLENE (USE IN PLACE OF CLASS 160 PVC IN LIMITED LOCATIONS SHOWN ON SHEET 30)
DRIP MAINLINE - CLASS 160 PVC
NETAFIM - DRIP IRRIGATION LINE HAVING 1 GPH INTERNAL EMITTER SPACED 18" ON CENTER. NETAFIM IS NORMALLY SHOWN WITH A WAVY LINE PATTERN ON THE IRRIGATION PLANS.

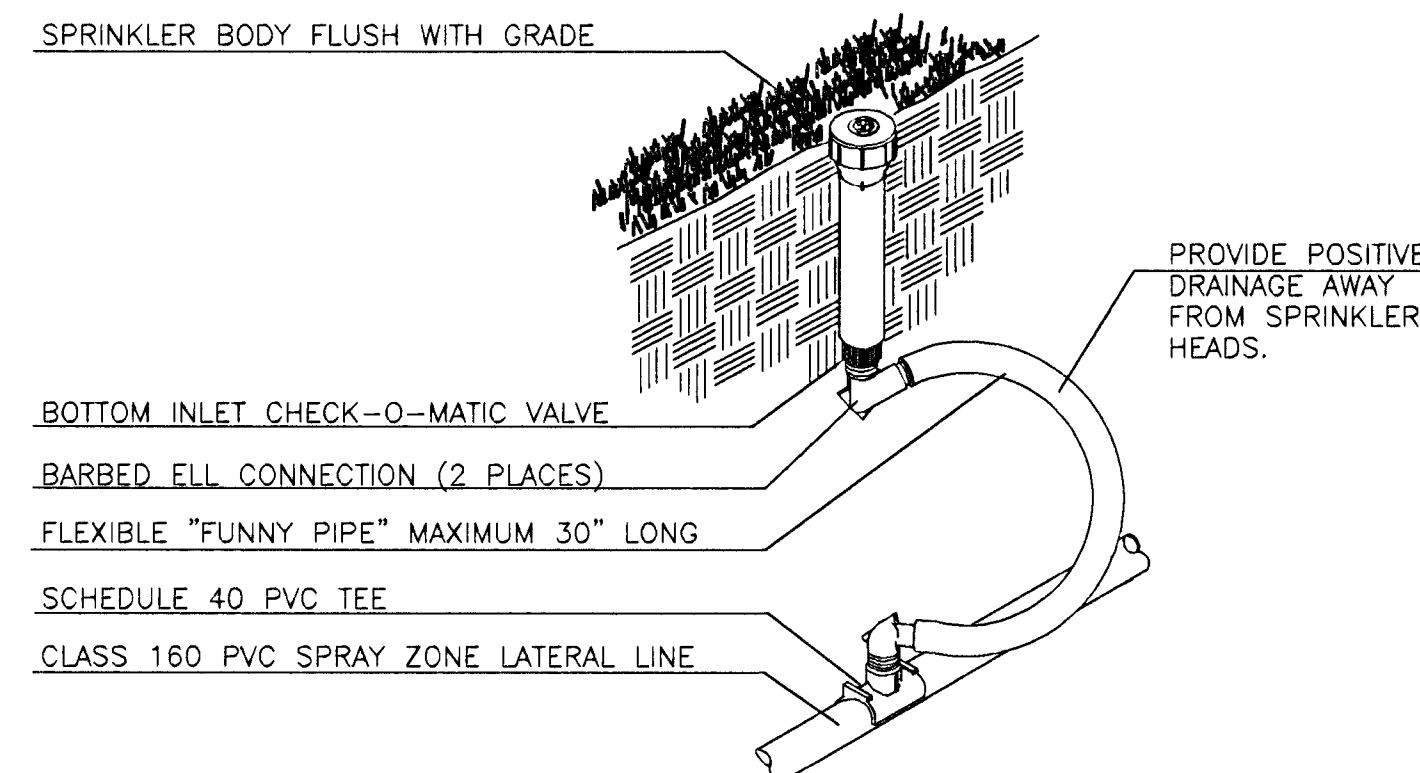
SPECIAL NOTE - DETAILS 12 AND 16 ON THIS SHEET SHOW THE USE OF NETAFIM WITH INTERNAL AND EXTERNAL EMITTERS. THE EXTERNAL EMITTERS ADD ADDITIONAL WATERING CAPACITY FOR THE TREES. LOCATED NETAFIM WITH EXTERNAL EMITTERS IN LOCATIONS SHOWN ON THE IRRIGATION PLANS.

FUNNY PIPE - USE FUNNY PIPE AS MANUFACTURED BY TORO ONLY FOR SPRAY HEADS AS SHOWN ON DETAIL 19, THIS SHEET. LIMIT FUNNY PIPE TO A MAXIMUM OF 30". PROVIDE POSITIVE DRAINAGE AWAY FROM SPRINKLER HEADS.

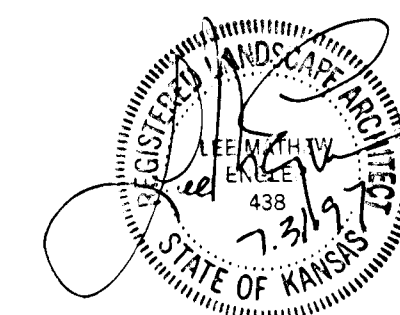
EMITTER DISTRIBUTION TUBING - COORDINATE SIZE OF TUBING WITH SIZE OF STAKES AND EMITTER OUTLETS.



18 S700 SERIES LAWN STREAM ROTOR SPRINKLER
WITH CHECK-O-MATIC CHECK VALVE
NO SCALE



19 570Z SERIES 4" POP-UP SPRAY SPRINKLER
WITH CHECK-O-MATIC CHECK VALVE
NO SCALE



KANSAS DEPARTMENT OF TRANSPORTATION			
KELLOGG AND WEST STREET IRRIGATION DETAILS			
PROJECT NO. # 101227			
Wilson Darnell Mann architecture site planning interiors Wichita, Kansas			
DESIGNED BY: WDM, PA	CHECKED BY: LME		
DRAWN BY: SKW	DATE: 7/31/97	SHEET 36 OF 43	