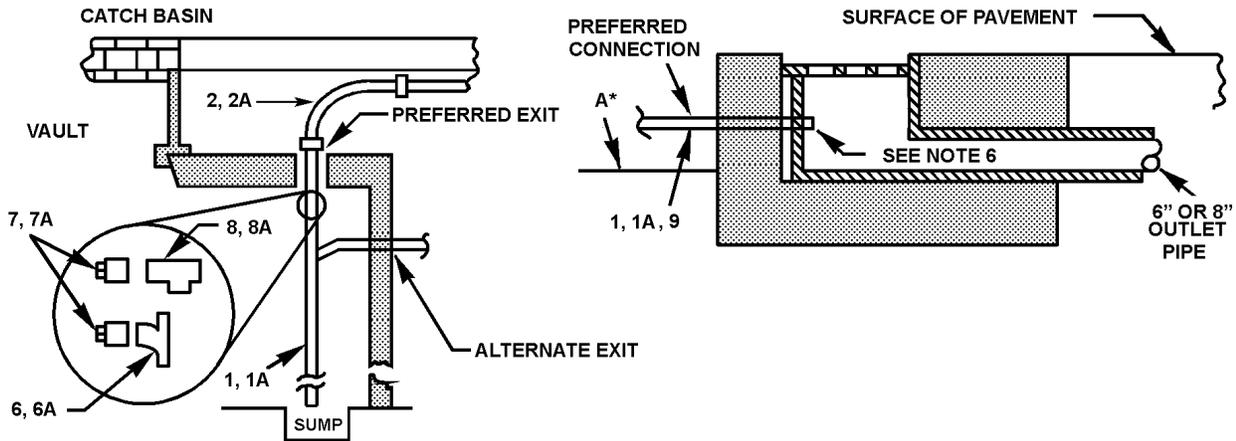


**SUMP PUMP PIPE INSTALLATION, VAULTS and MANHOLES
 NEW 2" or REPAIR 1-1/4"**



INLET TYPE	A*	OUTLET PIPE
Cast Iron	14-1/4"	6"
Concrete - Standard	20"	6"
Concrete - Large	23"	8"

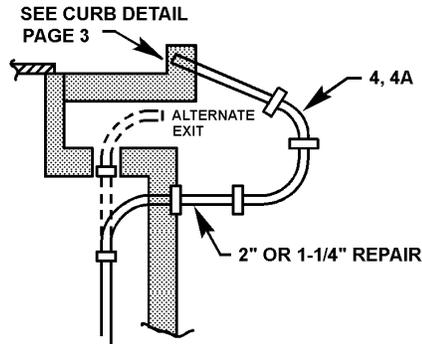
MATERIAL LIST

Item No.	Quantity	Description	Stock No.
1, 1A	as req'd	CONDUIT, PVC, Sched. 40 , 2" or 1-1/4"	734530, 734528
2, 2A	as req'd	ELBOW, PVC, Sched. 40 DWV, 90°, 2" or 1-1/4"	710101, 710116
3, 3A	as req'd	COUPLING, PVC, 2" or 1-1/4"	734517, 734515
4, 4A	as req'd	ELBOW, PVC, Sched. 40 DWV, 45°, 2" or 1-1/4"	710100, 710114
5	as req'd	ELBOW, PVC, Sched. 40, 22.5°, 2"	734561
6, 6A	1	TEE, SANITARY, 2", 1-1/4"	710118, 710110
7	1	PLUG, CLEANOUT 2"	710123
7	1	ADAPTER, CLEANOUT, 2"	710128
7A	1	PLUG & ADAPTER, CLEANOUT, 1-1/4"	710127
8	1	TEE, CLEANOUT, 2"	710122
9	as req'd	TAPE, MARKER/LOCATOR, Sump Pump Discharge	736900

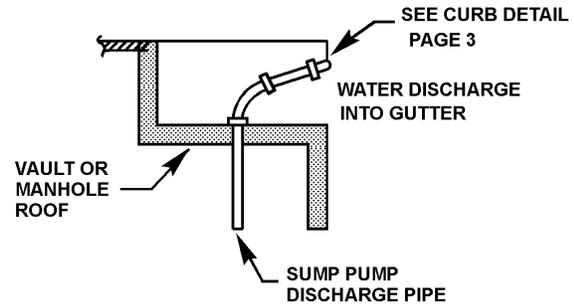
ORIGINATOR	STANDARDS COORDINATOR	STANDARDS SUPERVISOR	UNIT DIRECTOR
<i>Jim S. Horn</i>	<i>Charles L. Shaffer</i>	<i>John C. Skinner</i>	<i>Betty Robm</i>

**SUMP PUMP PIPE INSTALLATION, VAULTS and MANHOLES
DISCHARGE TO CURBS**

STREET INSTALLATION

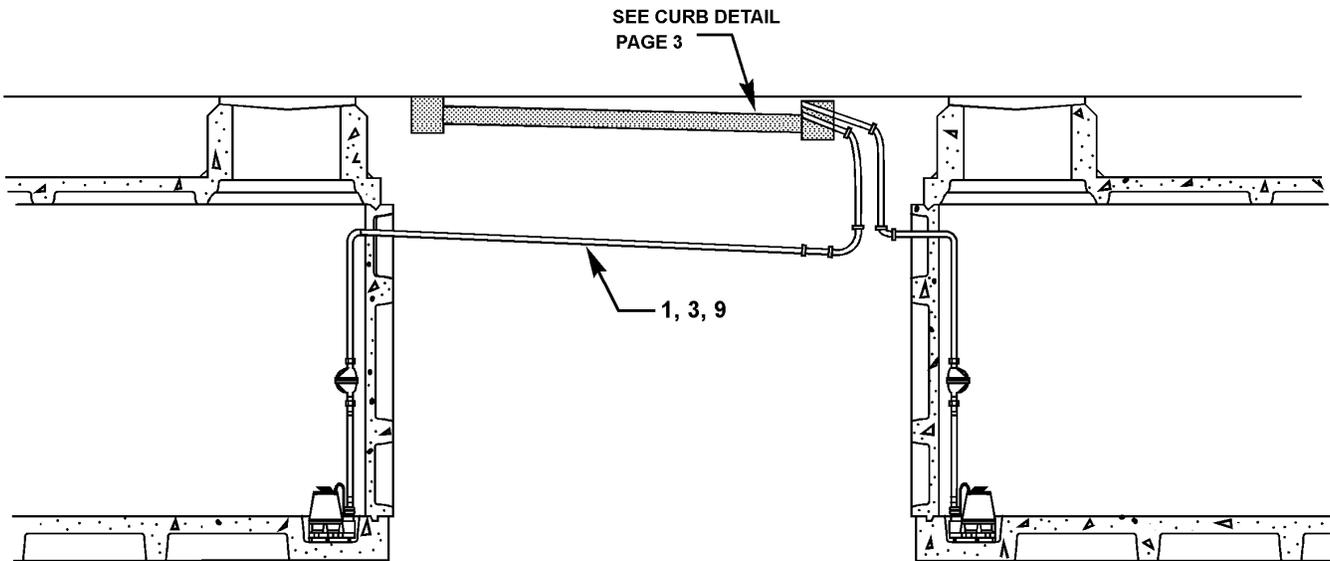


SIDEWALK INSTALLATION



**LOCATE CURB DISCHARGE
DOWNHILL FROM VAULT**

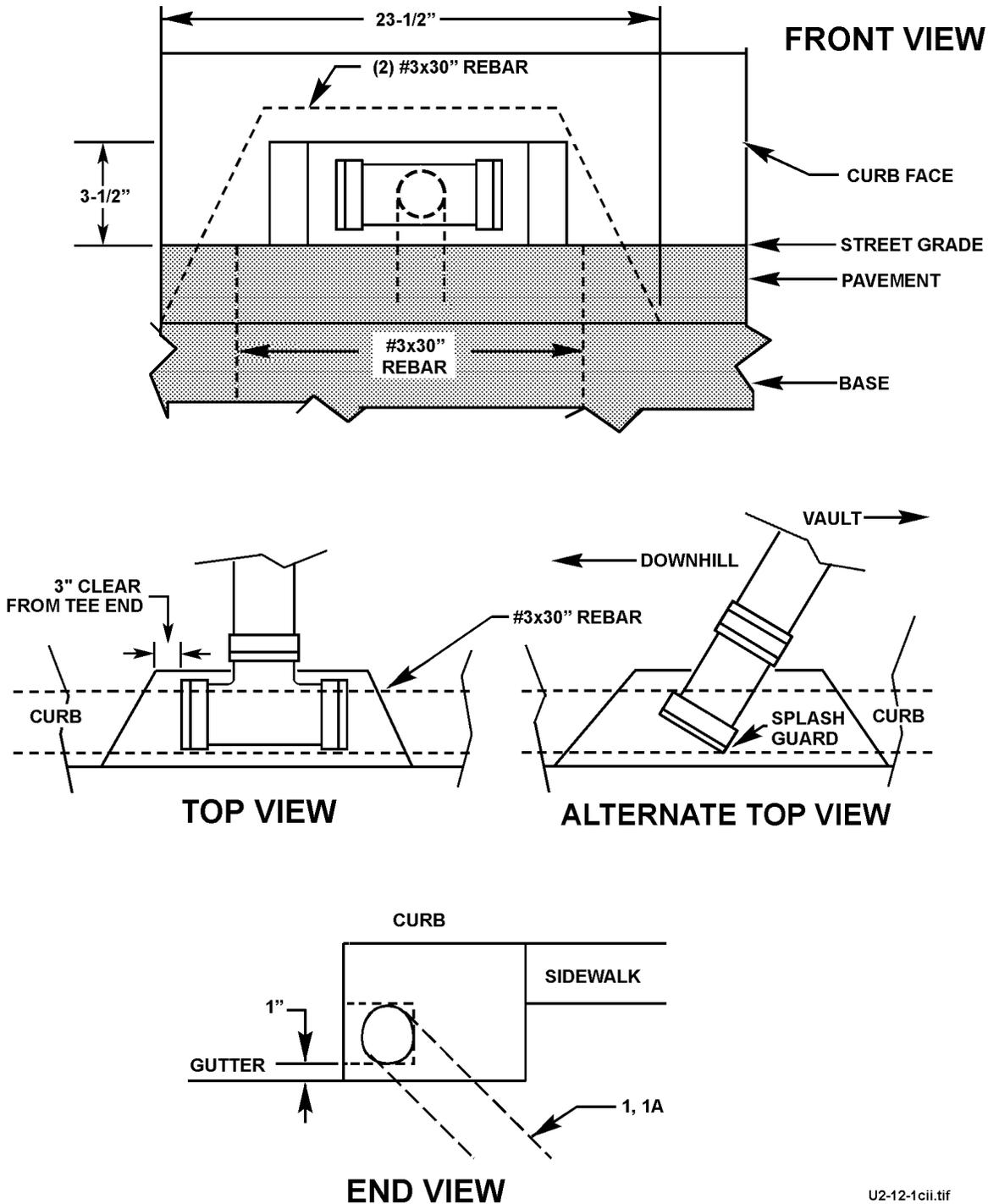
USE SWEEPS ONLY OUTSIDE VAULT



**Always install curb discharge on low side of sloping streets.
Curb discharge should be downgrade from manhole or vault so water cannot recirculate.
Aim discharge 90° downgrade.**

**NOTE: USE WHEN SEWER CONNECTION IS EXCESSIVELY REMOTE.
See page 3 for anti-splash discharge in new or rebuilt curbs.**

**SUMP PUMP PIPE INSTALLATION, VAULTS and MANHOLES
 ANTI-SPLASH DISCHARGE in NEW or REBUILT CURBS METHOD of CONSTRUCTION
 NEW 2" or REPAIR 1-1/4"**



See Note 8, next page

SUMP PUMP PIPE INSTALLATION, VAULTS and MANHOLES

1. The pump discharge pipe should be routed to the nearest catch basin downhill from the vault. The second choice is a catch basin uphill from the vault within the limitations of paragraph three below. If neither of these methods are possible, the 2" PVC conduit may be discharged to the curb. Locate the discharge point downhill of the vault to conserve pump head and to avoid refilling the vault. Install anti-splash guard on all curb discharge pipes. See details on the contract drawings. 1-1/4" PVC conduit may be used to repair existing discharge pipes.
2. The total vertical lift, from sump to discharge point, shall never exceed 25 feet.
3. The preferred exit from a transformer vault or manhole is the hole in the roof slab, core drill only if not provided. An alternate exit through a wall knockout may be used when the elevation of the transformer vault is considerably higher than the elevation of the discharge point. In either case, the exit is to be caulked after insertion of the 2" PVC conduit. When the conduit is to be stubbed off in the vault or manhole, it shall extend at least 4" into the structure.
4. The discharge pipe from the City Light manhole or transformer vault shall enter the sewer manhole or catch basin below the cone. An "ell" shall used inside the sewer manhole to divert the water through the conduit to the base of the sewer manhole. Similarly an "ell" shall be installed inside the catch basin to divert the water downward. It is not necessary to carry the pipe to the base of the catch basin.
5. When entering curb inlets, the preferred entrance is through the back (end plate) of the inlet box. The PVC conduit should be installed so that it is flush with the inside surface of the box and sealed in place with mortar. Entrance shall never be made into the side of the inlet box. An alternate to the above procedure is to terminate the discharge pipe in a "wye" grafted to the concrete tile leading from the inlet box. The annular space around the PVC pipe in the "wye" shall be mortared closed.
6. All work in sewer manholes, catch basins, or curb inlet outlet pipes shall be performed by the City of Seattle Engineering Department using contractor furnished materials. The only exception to this policy is the connection at the back of the inlet box which shall be made by the contractor.
7. Install plastic marker/locator tape (Item 9) above sump pump discharge conduit.