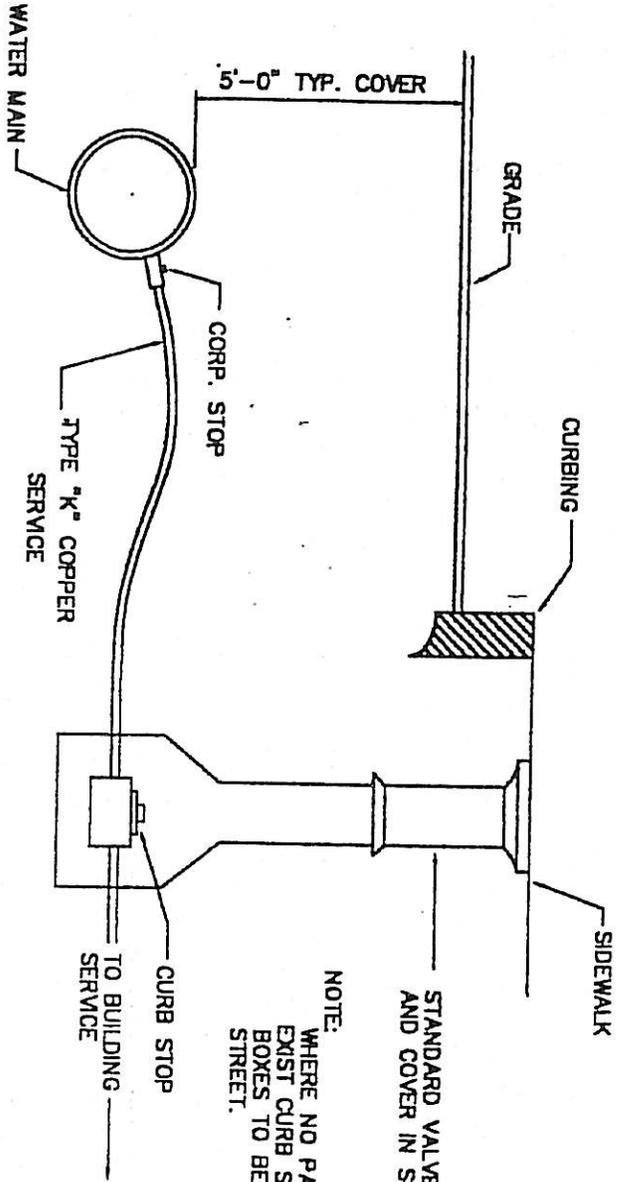


## XI. ILLUSTRATIONS

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NOTE:  
 WHERE NO PAVED SIDEWALKS  
 EXIST CURB STOPS AND VALVE  
 BOXES TO BE INSTALLED IN  
 STREET.

TYPICAL COPPER SERVICE CONNECTION

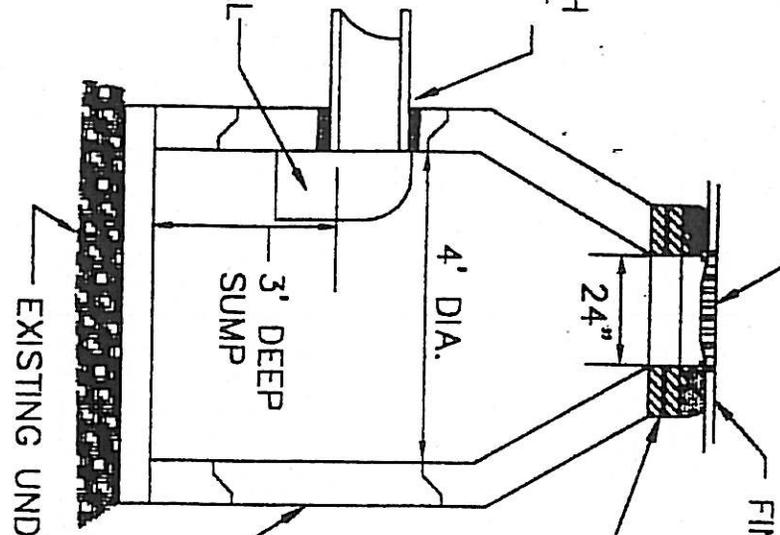
N.T.S.



STANDARD MASS. DPW  
CATCH BASIN FRAME AND  
GRATE SET IN FULL  
MORTAR BED

12" RCP CATCH  
BASIN LEAD WITH  
MORTARED JOINT

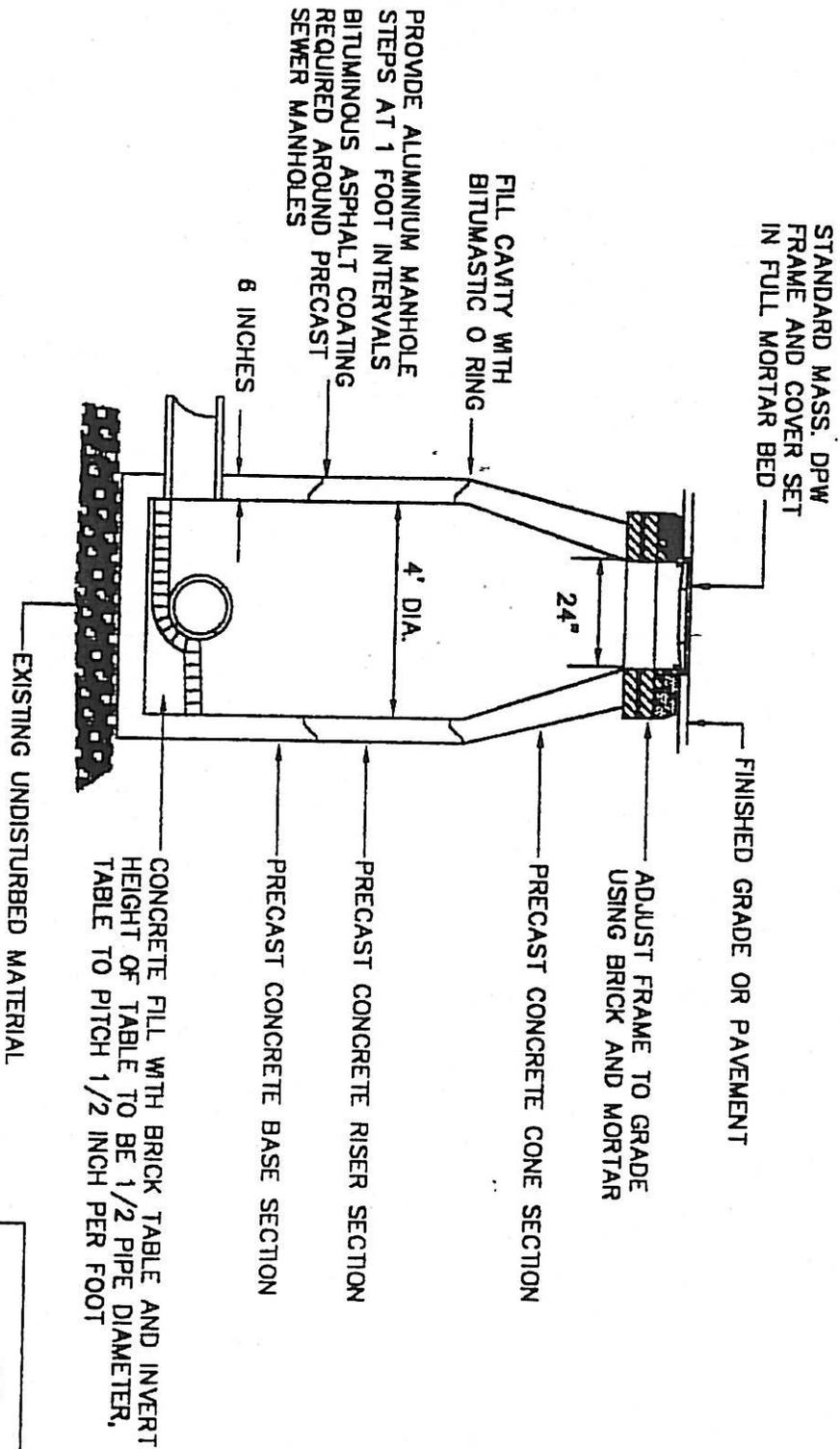
NOTE:  
GREASE TRAP TO  
BE E.L. LEBARON  
FOUNDARY CO.  
L-204 BROOKLYN  
STANDARD OR EQUAL



# CATCH BASIN DETAIL

NTS



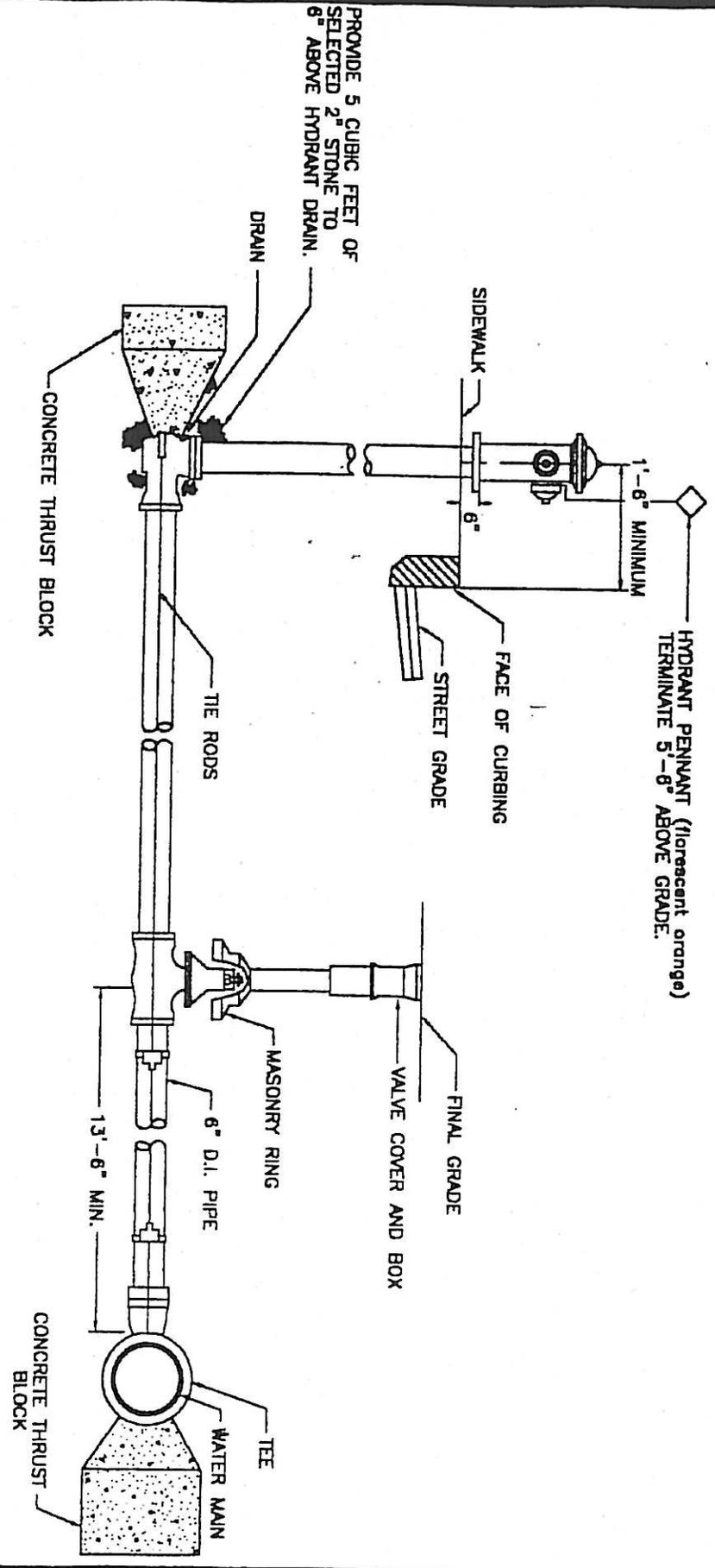


# PRECAST CONCRETE MANHOLE

NTS

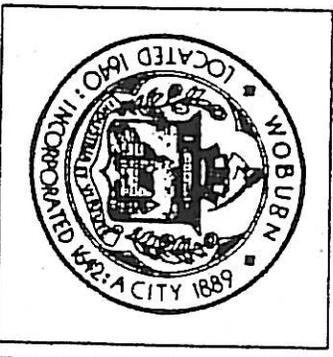
NOTE: MANHOLES SHALL CONFORM TO ASTM C478 AND ASTM C185

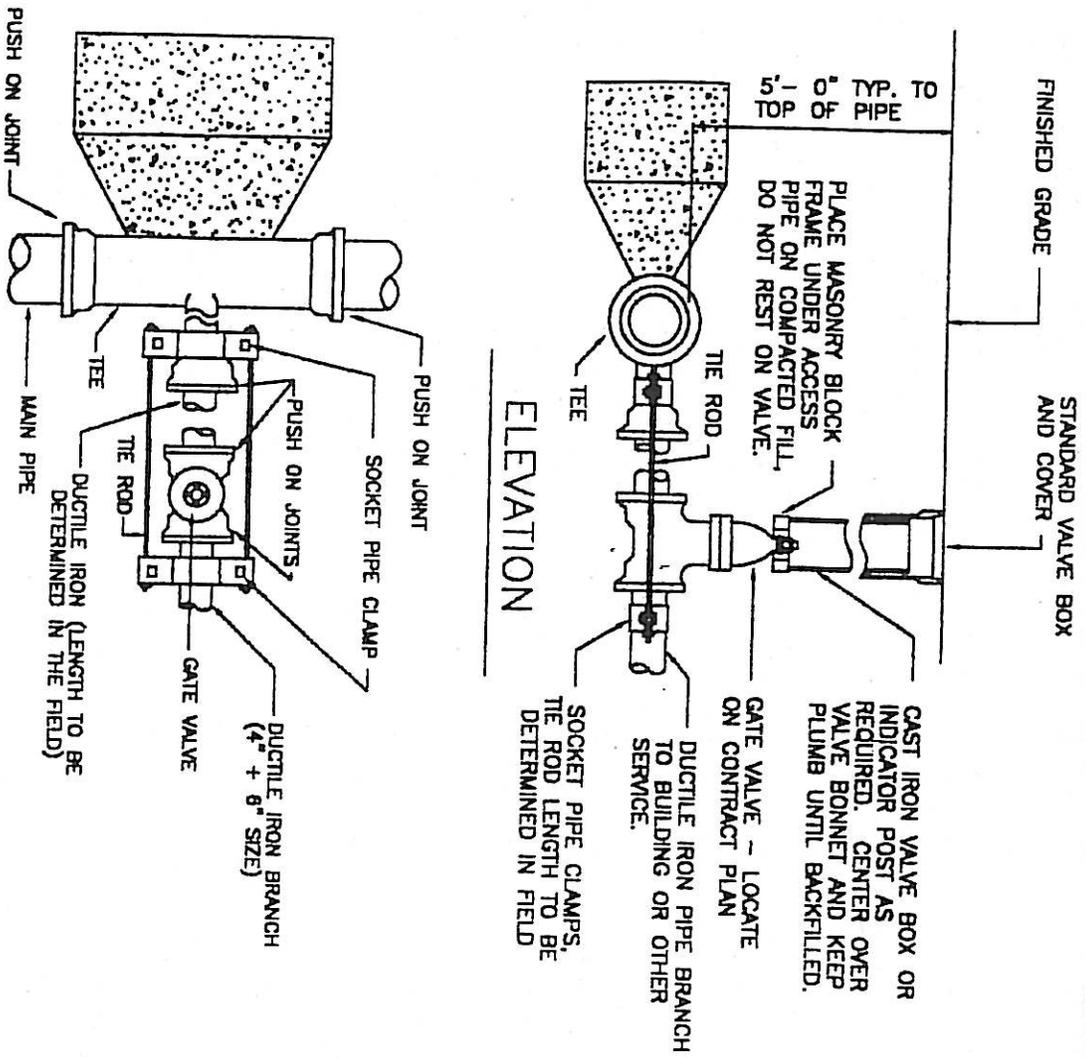




TYPICAL FIRE  
HYDRANT CONNECTION

N.T.S.



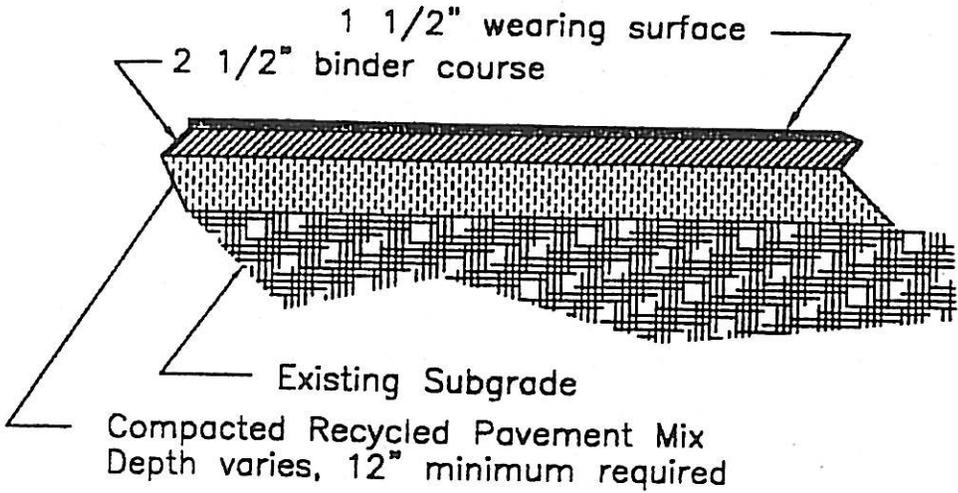


TYPICAL SERVICE  
BRANCH CONNECTION

N.T.S.

PLAN

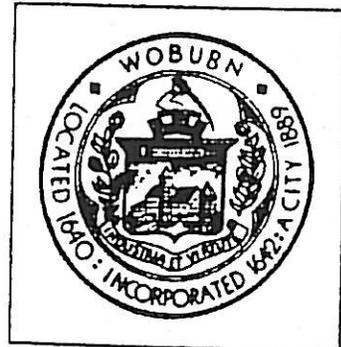


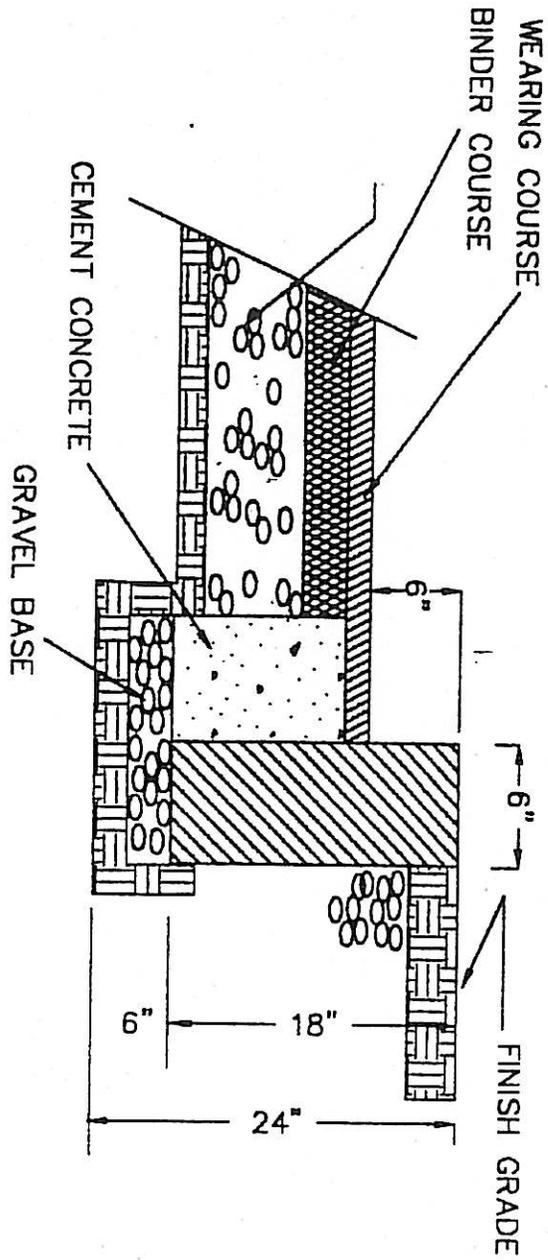


PAVEMENT DETAIL

NTS

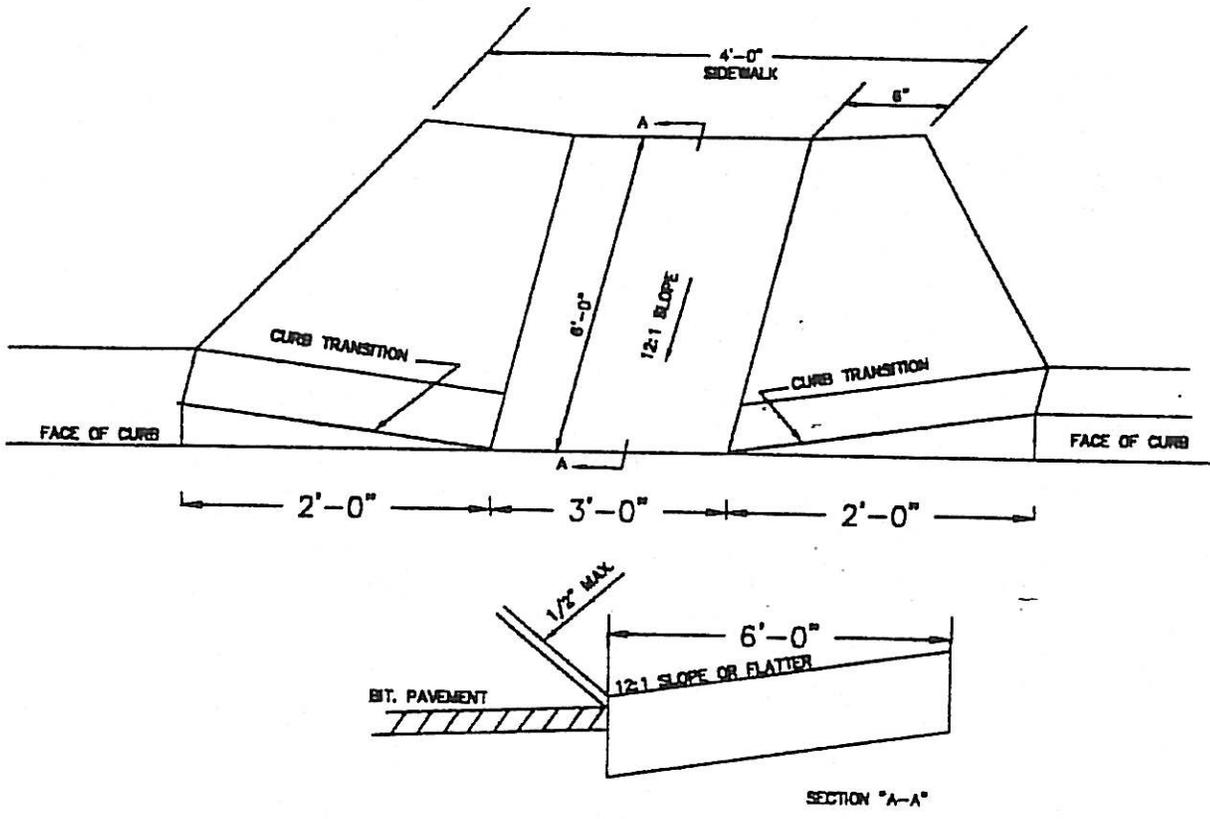
NOTE: Provide a minimum of 12 inches of reclaimed pavement base in areas of existing pavement. In areas for new pavement depth may be greater to accommodate removal of organic soils and other deliterious materials.



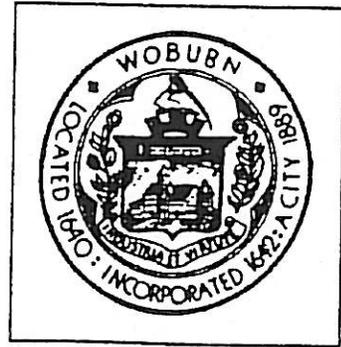


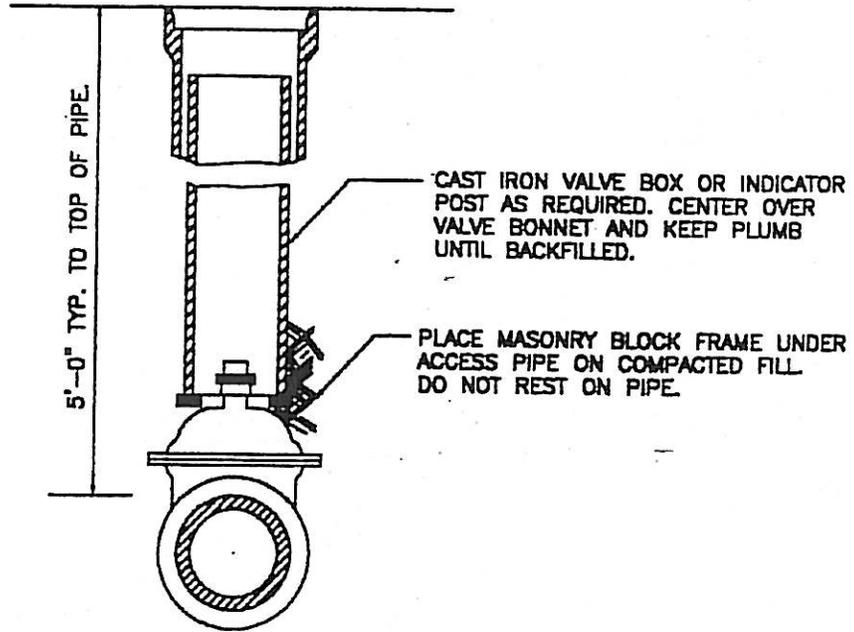
VA-4 VERTICAL CURB DETAIL  
NTS





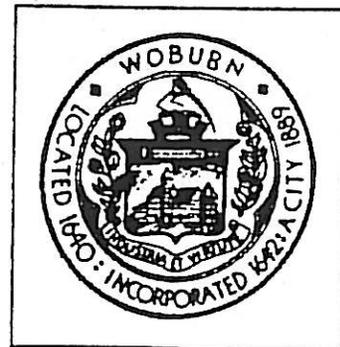
TYPICAL HANDICAP RAMP DETAIL  
NTS

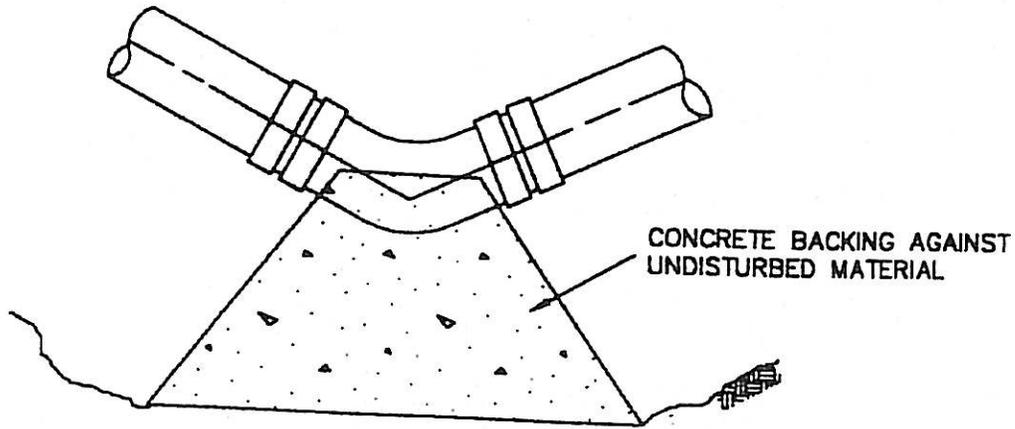




TYPICAL GATE VALVE  
INSTALLATION IN TRENCH

N.T.S.

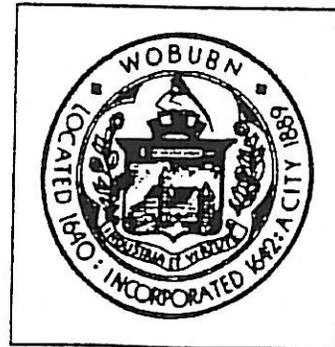


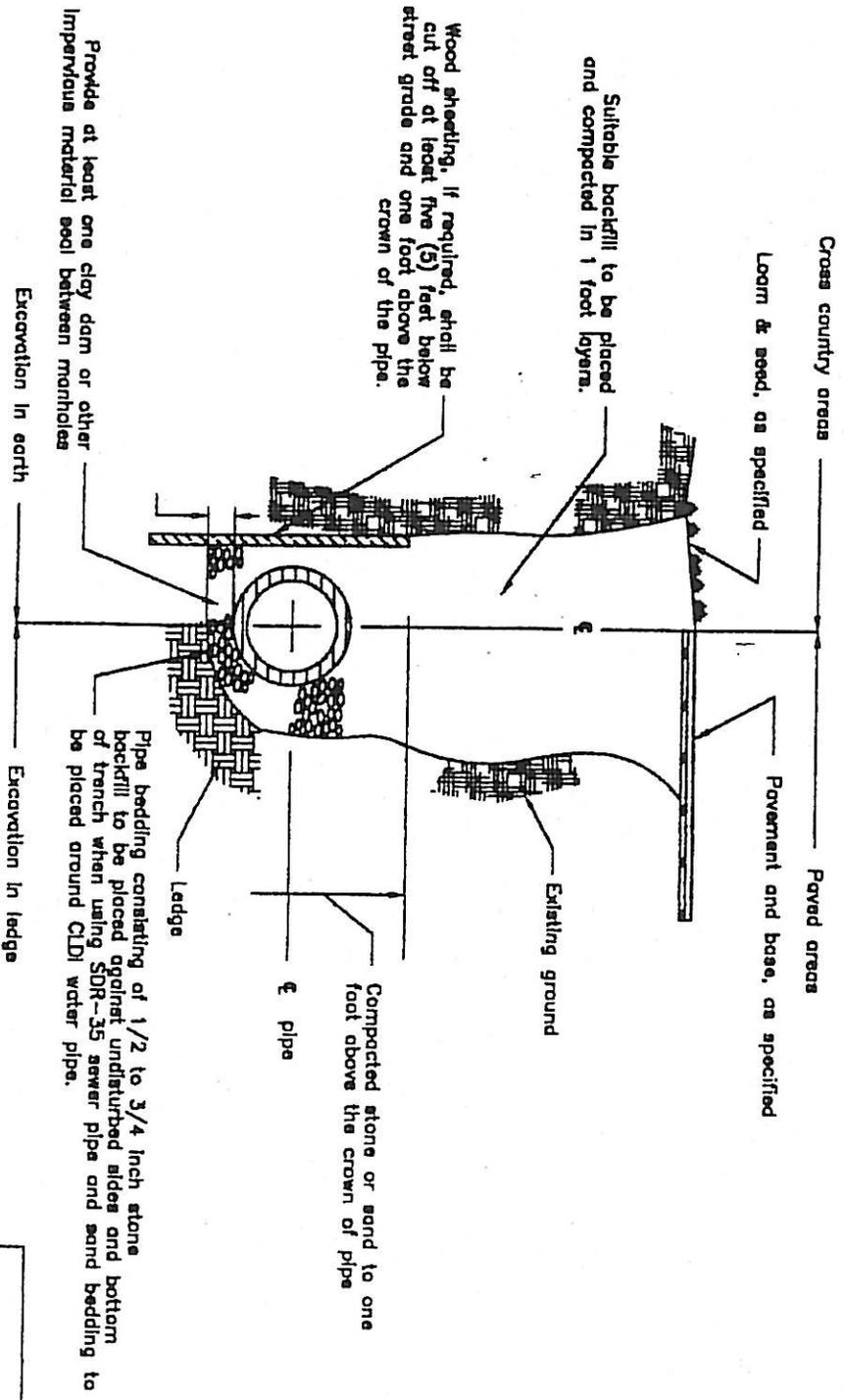


TYPICAL BEND DETAIL  
NTS

TABLE OF BEARING AREAS IN SQUARE FEET AGAINST UNDISTURBED MATERIAL FOR WATER MAIN FITTINGS			
SIZE OF MAIN (IN)	45° BEND	TEES & PLUGS	22 1/2° BEND
8" & LESS	8	10	8
10" & 12"	22	16	13

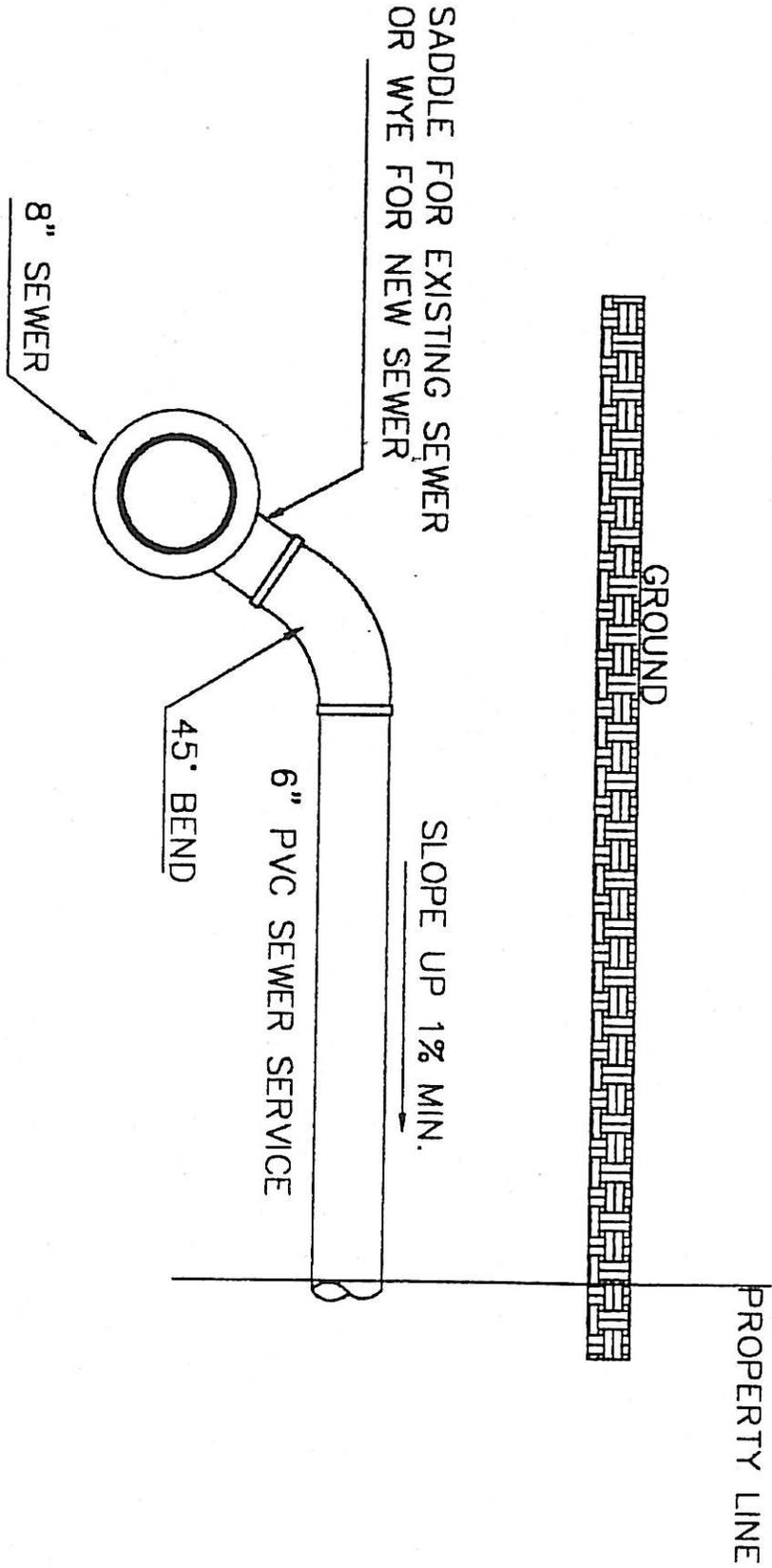
CONCRETE BACKING FOR WATER PIPE





TYPICAL TRENCH DETAIL  
N T S



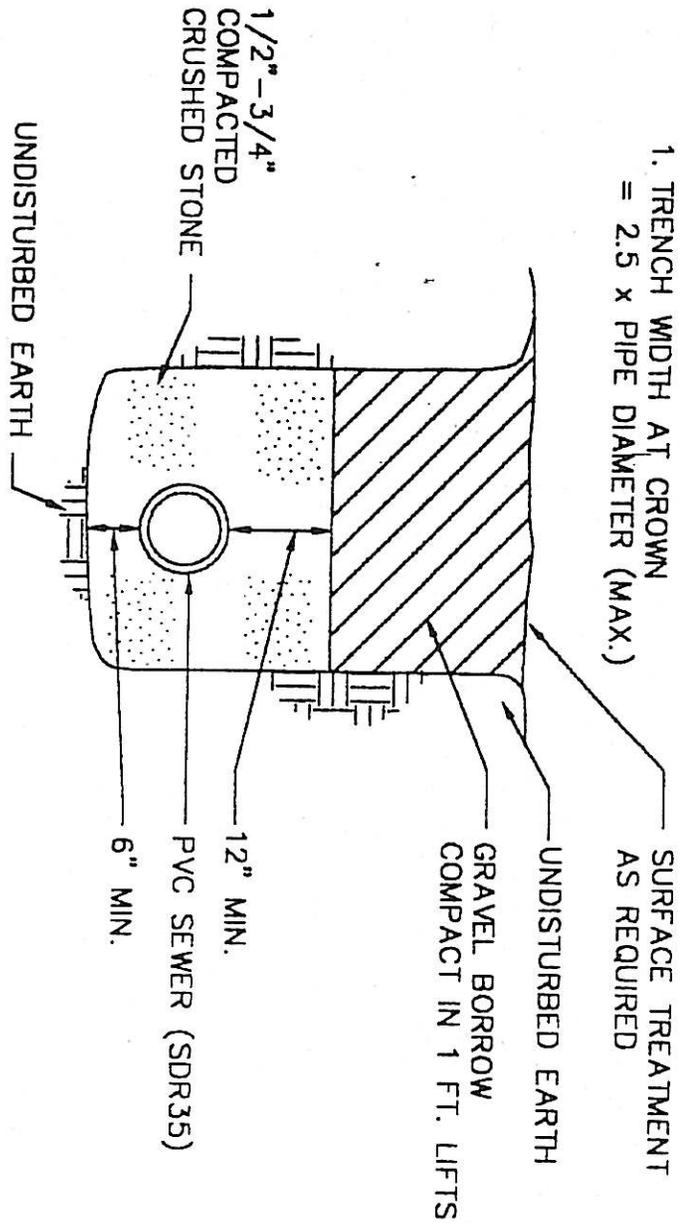


TYPICAL SEWER SERVICE DETAIL  
N T S



NOTES

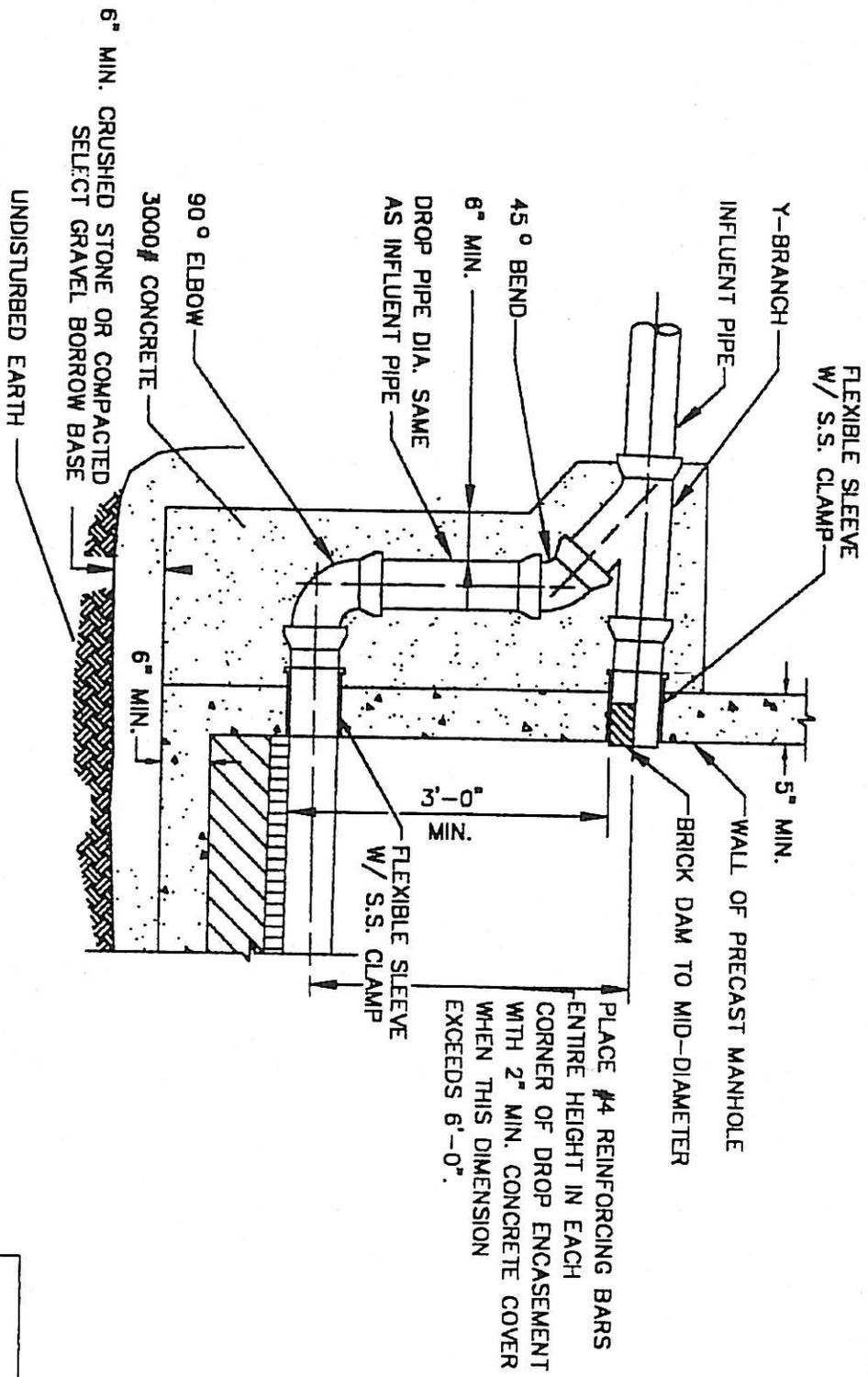
- 1. TRENCH WIDTH AT CROWN  
= 2.5 x PIPE DIAMETER (MAX.)



SEWER PIPE TRENCH DETAIL

N.T.S.



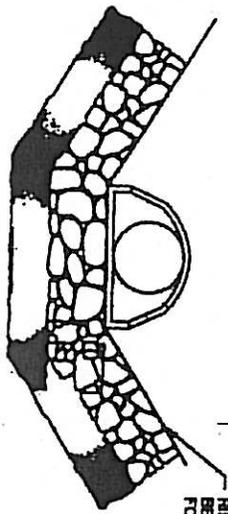


OUTSIDE DROP MANHOLE  
CONNECTION DETAIL

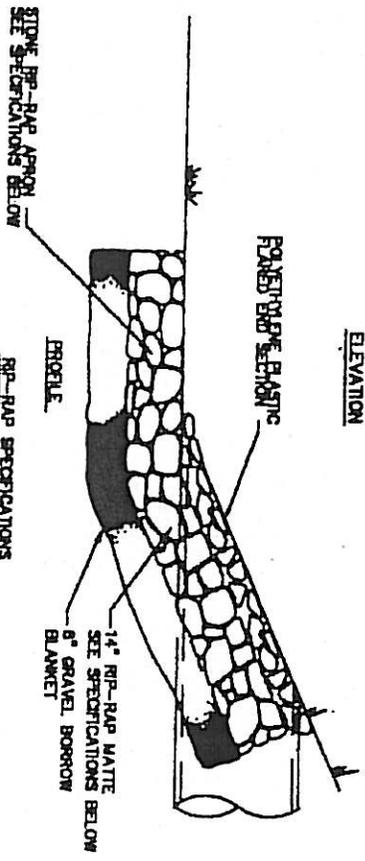
N.T.S.

- NOTES:
1. DROP MANHOLE INSIDE DIAMETER IS TO BE 4 FT.
  2. DIMENSIONS AND CONSTRUCTION OF DROP MANHOLE TO BE SIMILAR TO TYPICAL MANHOLE EXCEPT AS SHOWN.





RR-RAP SHALL EXTEND 24" BEYOND WIDTH OF FLARED END FOR ENTIRE LENGTH.



1. THE RR-RAP SHALL BE COMPOSED OF DURABLE STONE WHICH MEETS THE FOLLOWING GRADATION REQUIREMENTS:

STONE SIZE	STONE DIAMETER	TOTAL WEIGHT	PERCENT
120 LB.	1.2 FT	1000	100
60 LB.	0.8 FT	500	50

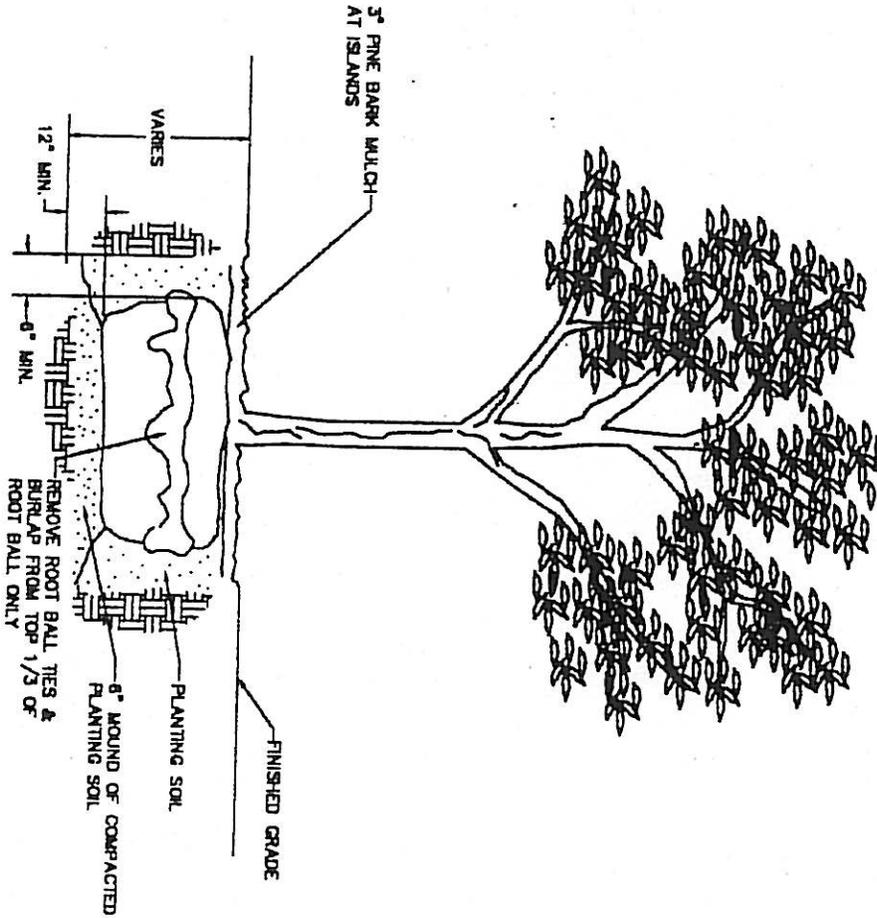
2. THE RR-RAP SHALL BE UNDERLAIN WITH A GRAVEL BORROW BLANKET CONSISTING OF CLEAN, COARSE GRAVEL WITH NO STONES OVER 3" AND FEWER THAN 10% PASSING A #200 SIEVE.

3. THE GRAVEL BORROW BLANKET NEED NOT BE COMPACTED, BUT SHALL BE GRADED TO A UNIFORM SURFACE WITH A MINIMUM THICKNESS OF 6".

**FLARED END SECTION DETAIL.**

N.T.S.





TYPICAL TREE PLANTING DETAIL

