

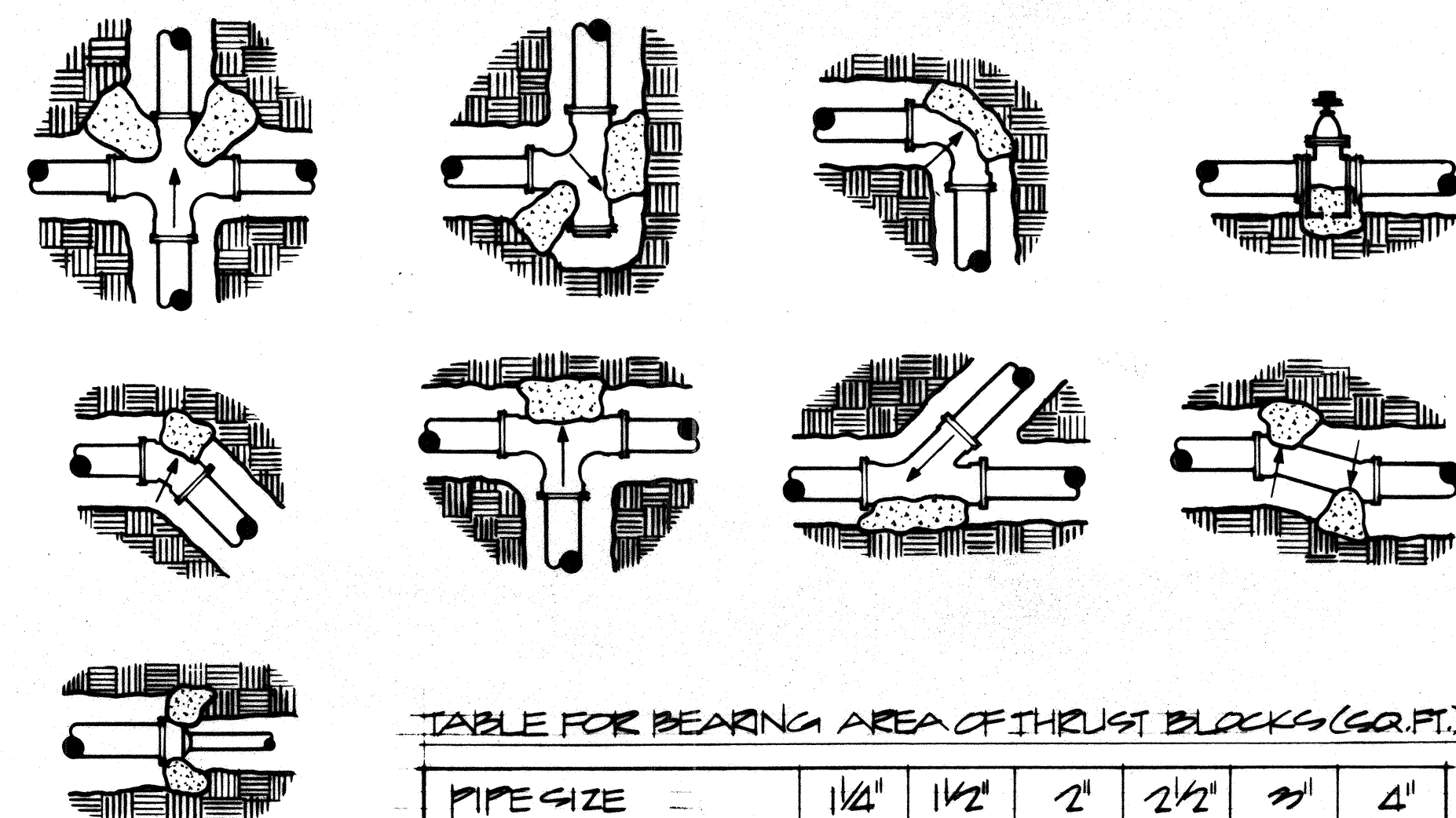
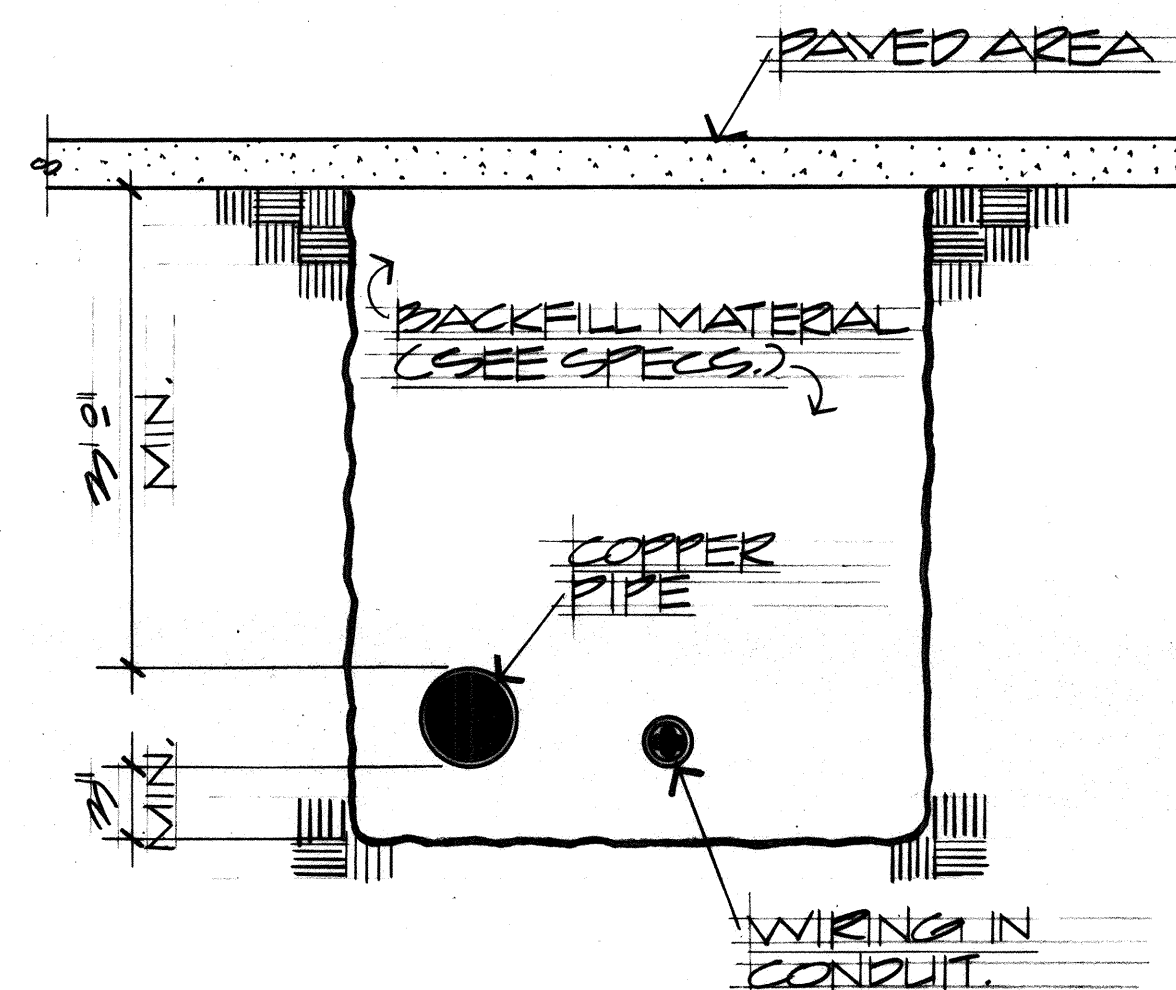


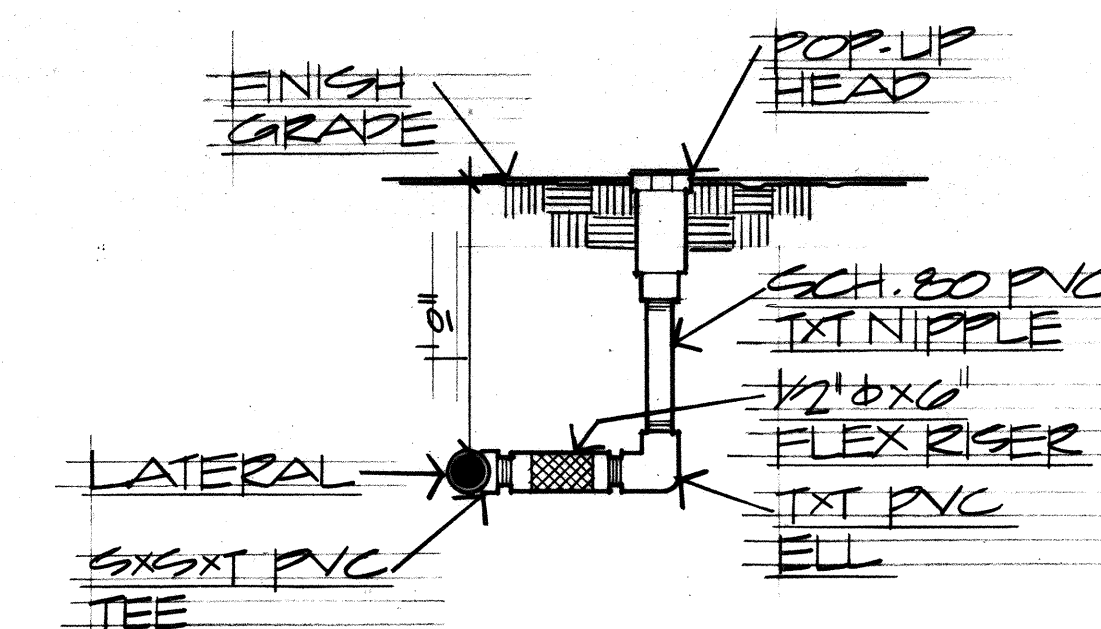
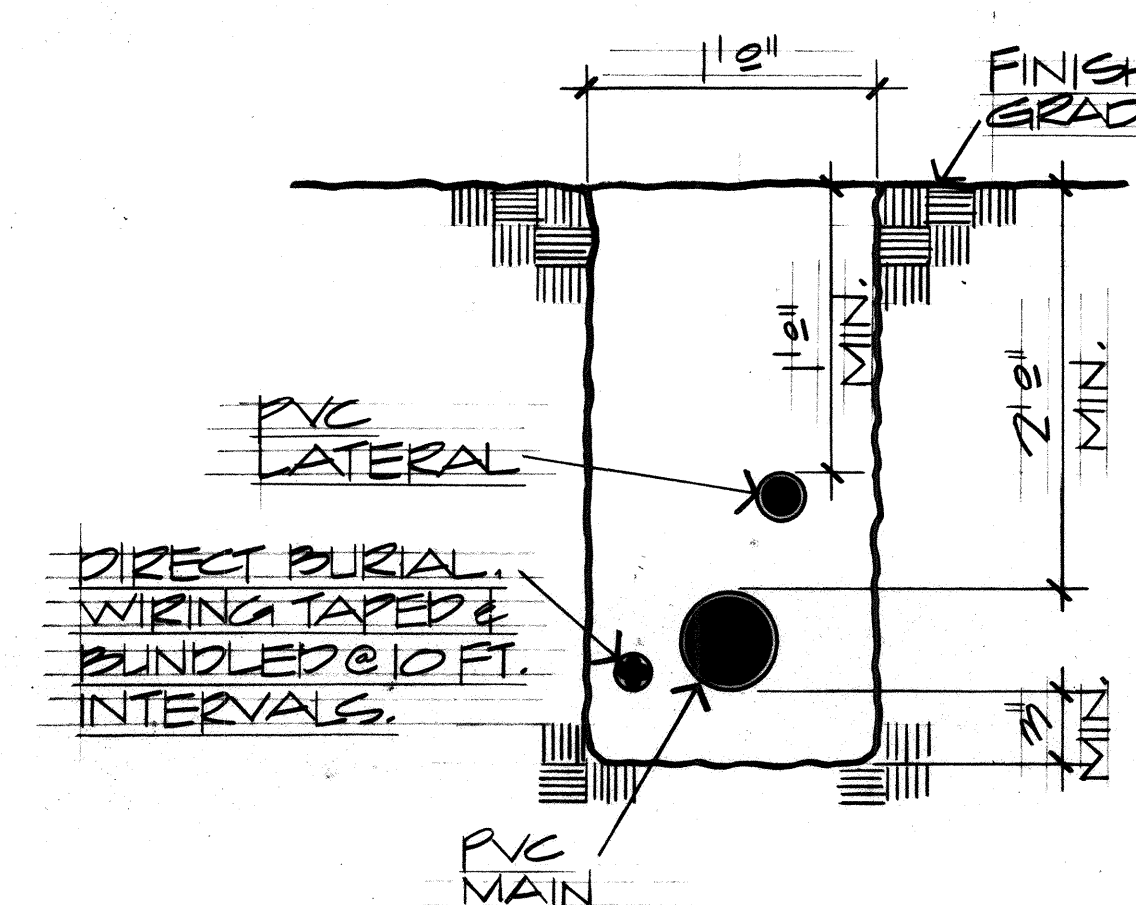
TABLE FOR BEARING AREA OF THRUST BLOCKS (SQ. FT.)

| PIPE SIZE      | 1 1/4" | 1 1/2" | 2"   | 2 1/2" | 3"   | 4"   |
|----------------|--------|--------|------|--------|------|------|
| TEES & CROSSES | 0.50   | 0.50   | 0.50 | 0.50   | 1.00 | 1.25 |
| 90° BEND       | 0.50   | 0.50   | 0.50 | 0.75   | 1.25 | 2.00 |
| 45° BEND       | 0.50   | 0.50   | 0.50 | 0.50   | 0.75 | 1.00 |

TYP. THRUST BLOCK DETS.  
NO SCALE

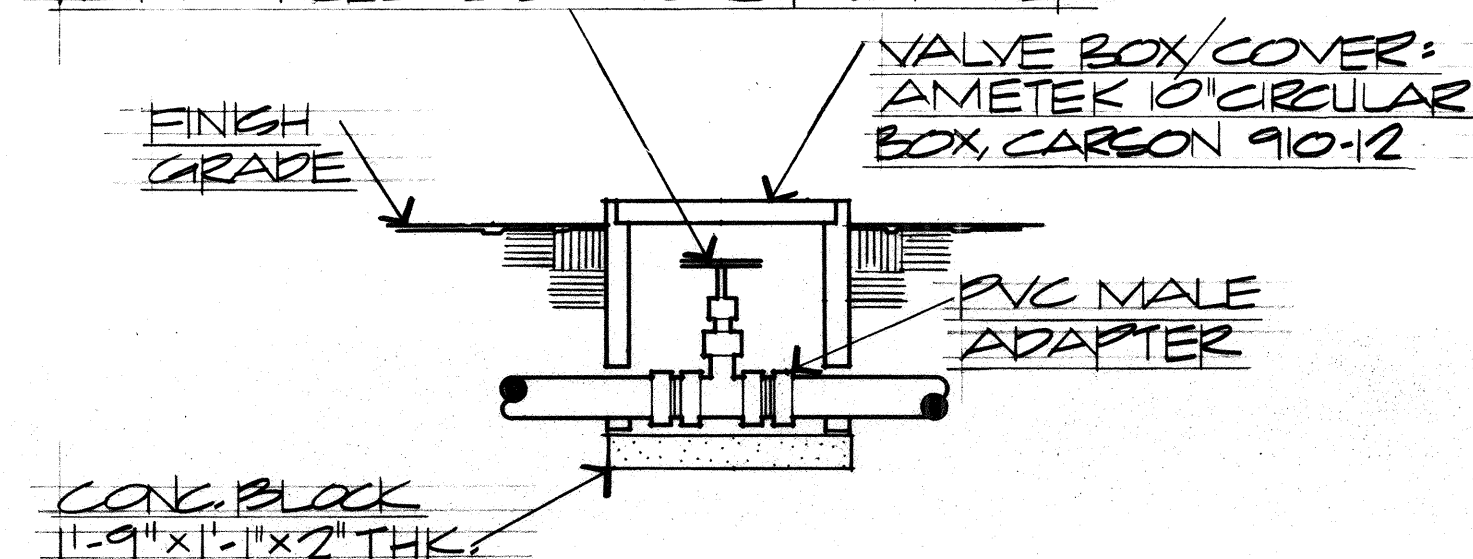


TYP. PIPE TRENCH DET.  
NO SCALE



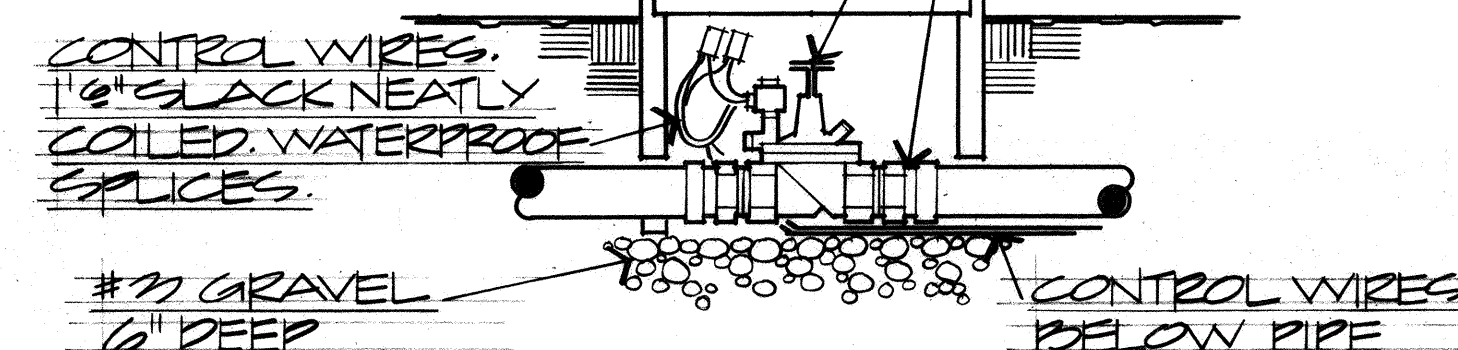
POP-UP HEAD DET.  
NO SCALE

DO NOT INSTALL VALVES IN DRAINAGE SWALE  
BRONZE GATE VALVE  
2" SQUARE NUT - 2" VALVE & LARGER  
HANDWHEEL - 2 1/2" VALVE & SMALLER

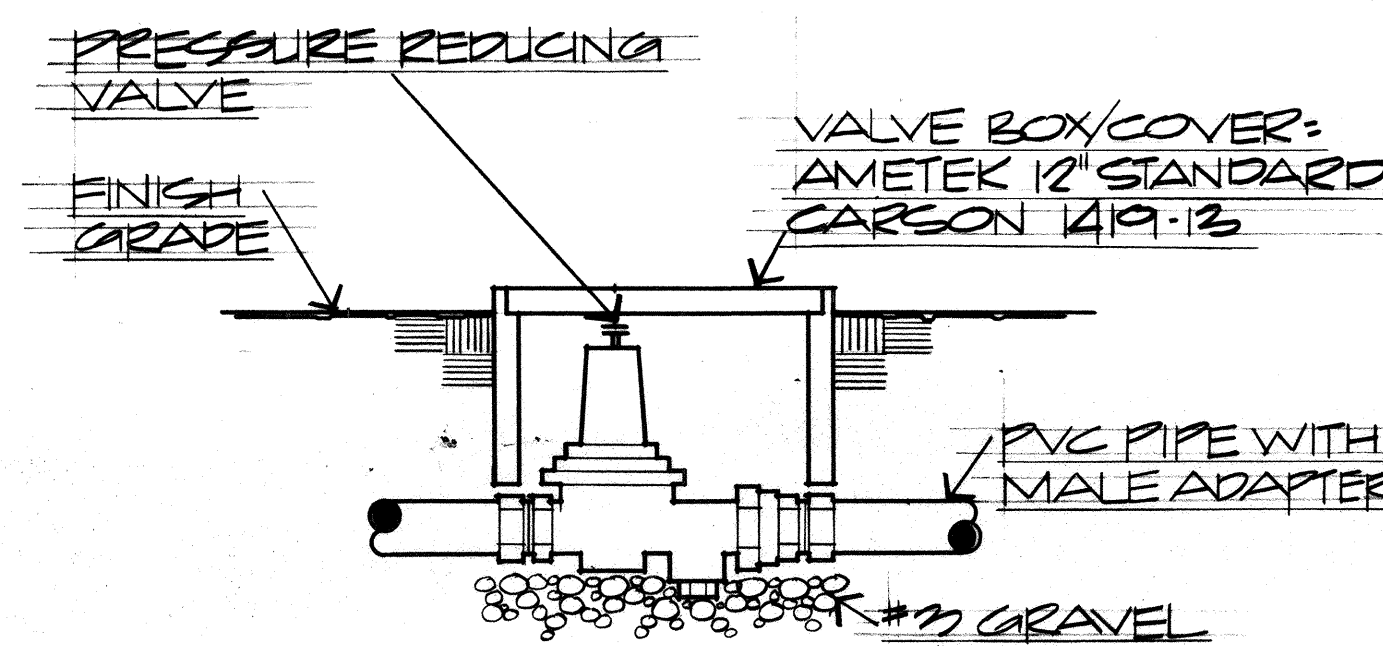


GATE VALVE DET.  
NO SCALE

1 VALVE PER VALVE BOX  
STENCIL CONTROL  
DESIGNATION & STATION  
NUMBER ON VALVE BOX  
COVER WITH 2" HIGH  
LETTERS & NUMBERS IN  
YELLOW EPOXY RESIN  
BASE PAINT.  
VALVE BOX/COVER:  
AMETEK 12" STANDARD  
CARSON 1419-13  
ELEC. GLOBE  
VALVE  
PVC REDUCER BUSHING  
WITH MALE ADAPTER

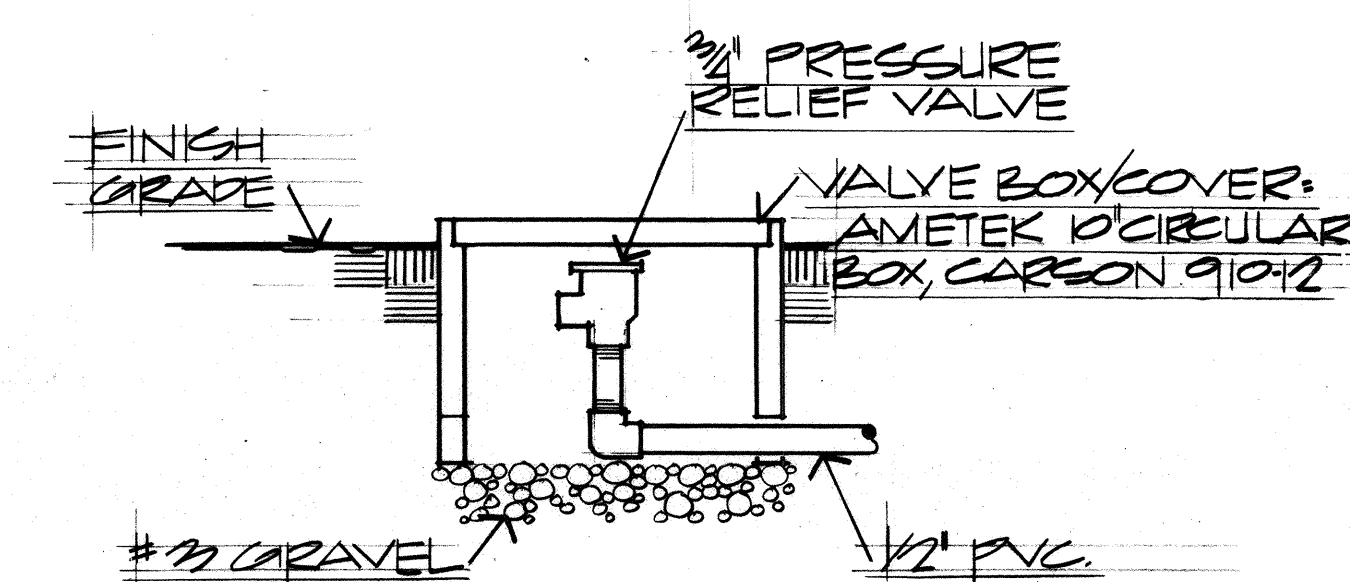


ELECTRIC VALVE DET.  
NO SCALE

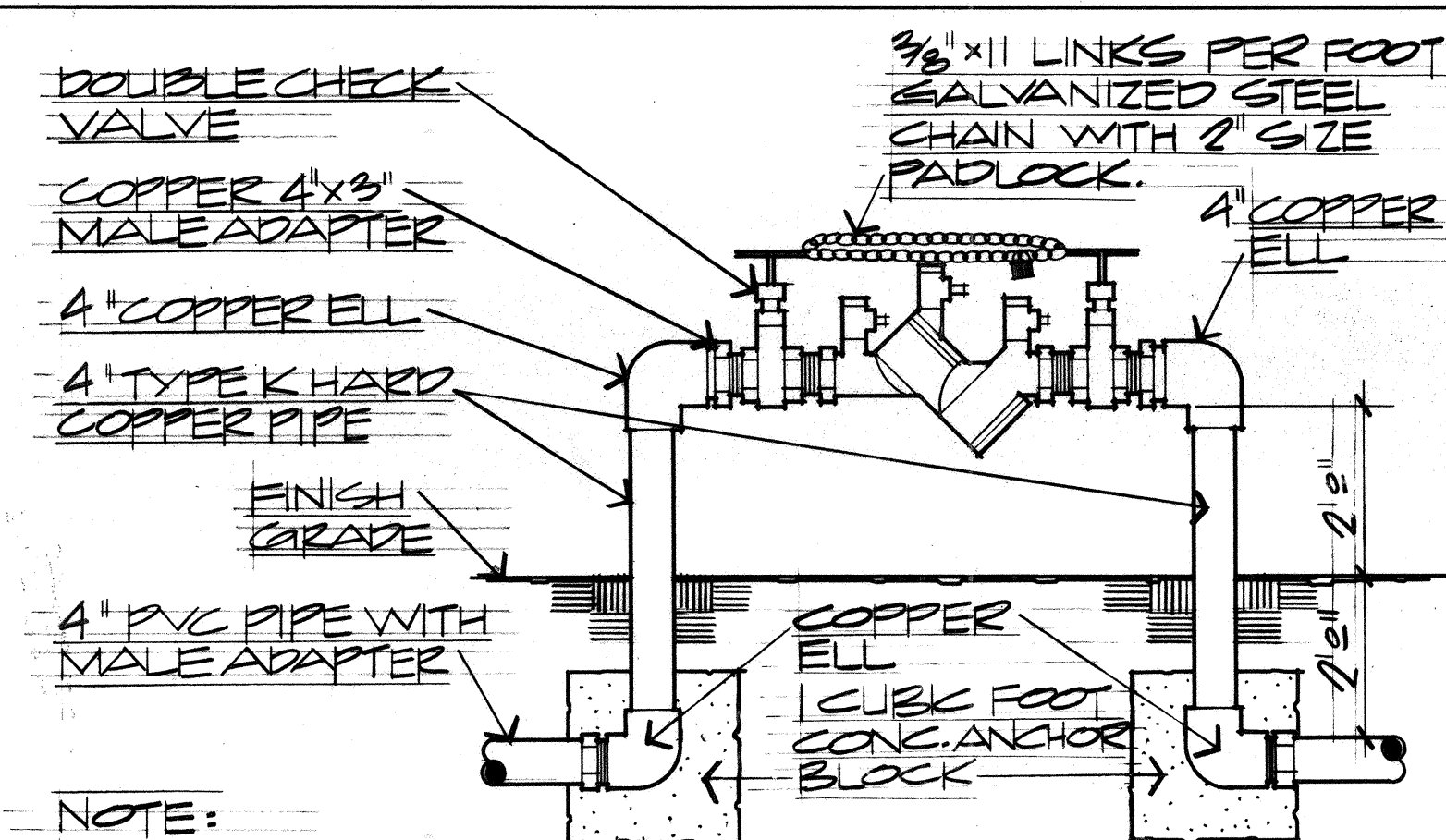


PRESSURE REDUCING VALVE DET.  
NO SCALE

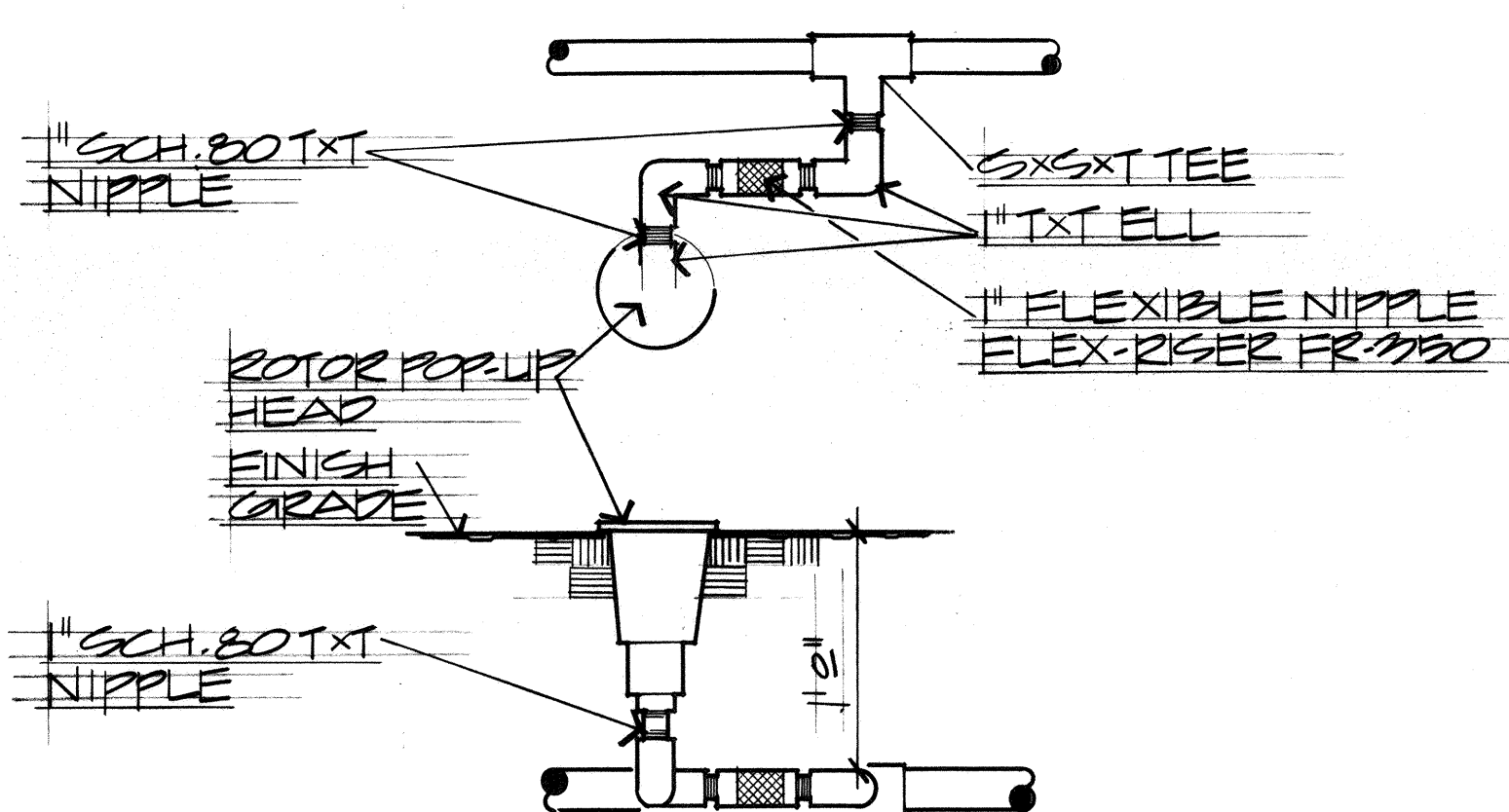
CONNECTION OF RELIEF VALVES TO MAIN:  
1. INSTALL PRESSURE RELIEF VALVE  
AT END OF IRRIGATION MAIN.



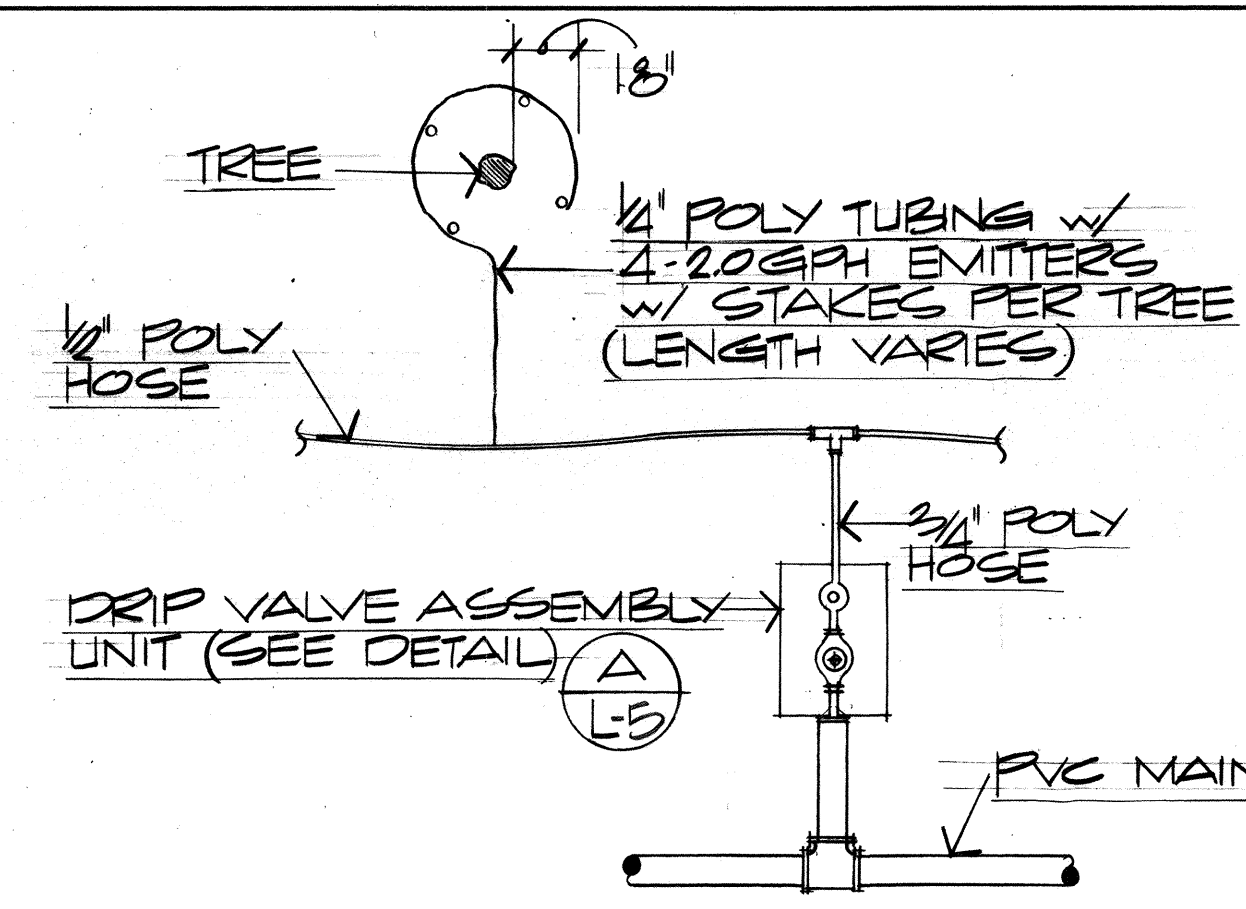
RELIEF VALVE DET.  
NO SCALE



NOTE:  
THERE SHALL BE NO OBSTRUCTION WITHIN A DISTANCE OF TWO (2) FEET SURROUNDING THE BACKFLOW PREVENTER.  
BACKFLOW PREVENTER DET.  
NO SCALE

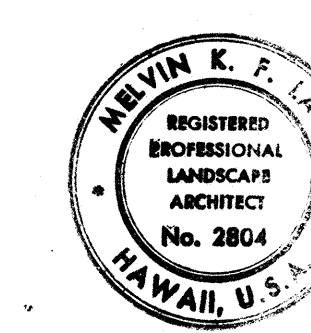


ROTOR POP-UP HEAD DET.  
NO SCALE



TYP. DRIP IRRIGATION SYSTEM DET.  
NO SCALE

NOTE:  
INSTALL ALL VALVES 1/8" MIN. TO 3/4" MAX.  
FROM EDGE OF RIGHT-OF-WAY.



THIS WORK WAS PREPARED BY  
ME OR UNDER MY SUPERVISION.  
Melvin K. F. Jao  
Signature

STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

IRRIGATION DETAILS

LIHUE AIRPORT  
GATEWAY BEAUTIFICATION  
PROJECT NO. LT-K-05-78 PHASE II

SCALE: NO SCALE DATE:

SHEET NO. 4 OF 7 SHEETS