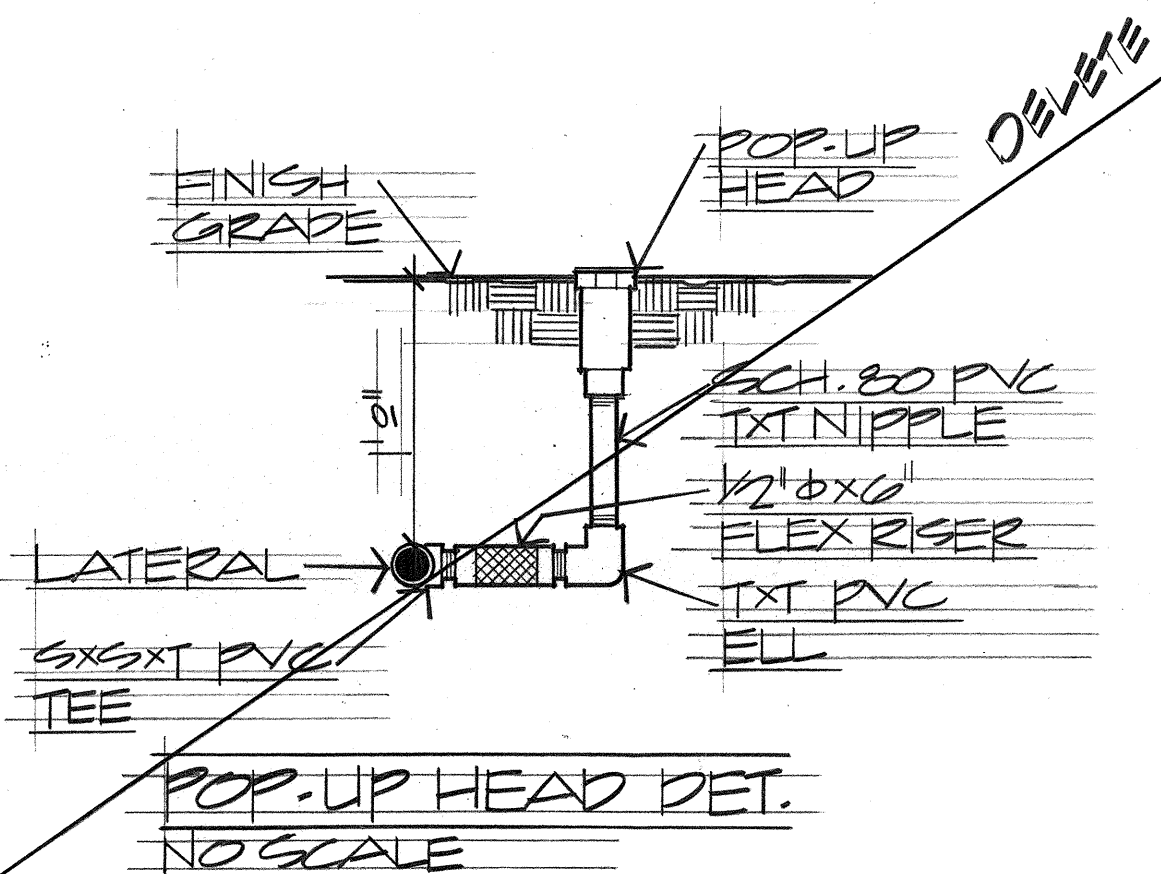


| FED. ROAD DIST. NO. | STATE | PROJ. NO.  | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
|---------------------|-------|------------|-------------|-----------|--------------|
| HAWAII              | HAW.  | LT-K-05-78 |             | 15        | 18           |

PHASE II-A

FULL CIRCLE HEADS IN CENTER OF PLANTING STRIP, 12" MAX. FROM EDGE OF PAVEMENT. PART CIRCLE HEADS 12" FROM EDGE OF PLANTING AREA OR RIGHT-OF-WAY.



POP-UP HEAD DET.  
NO SCALE

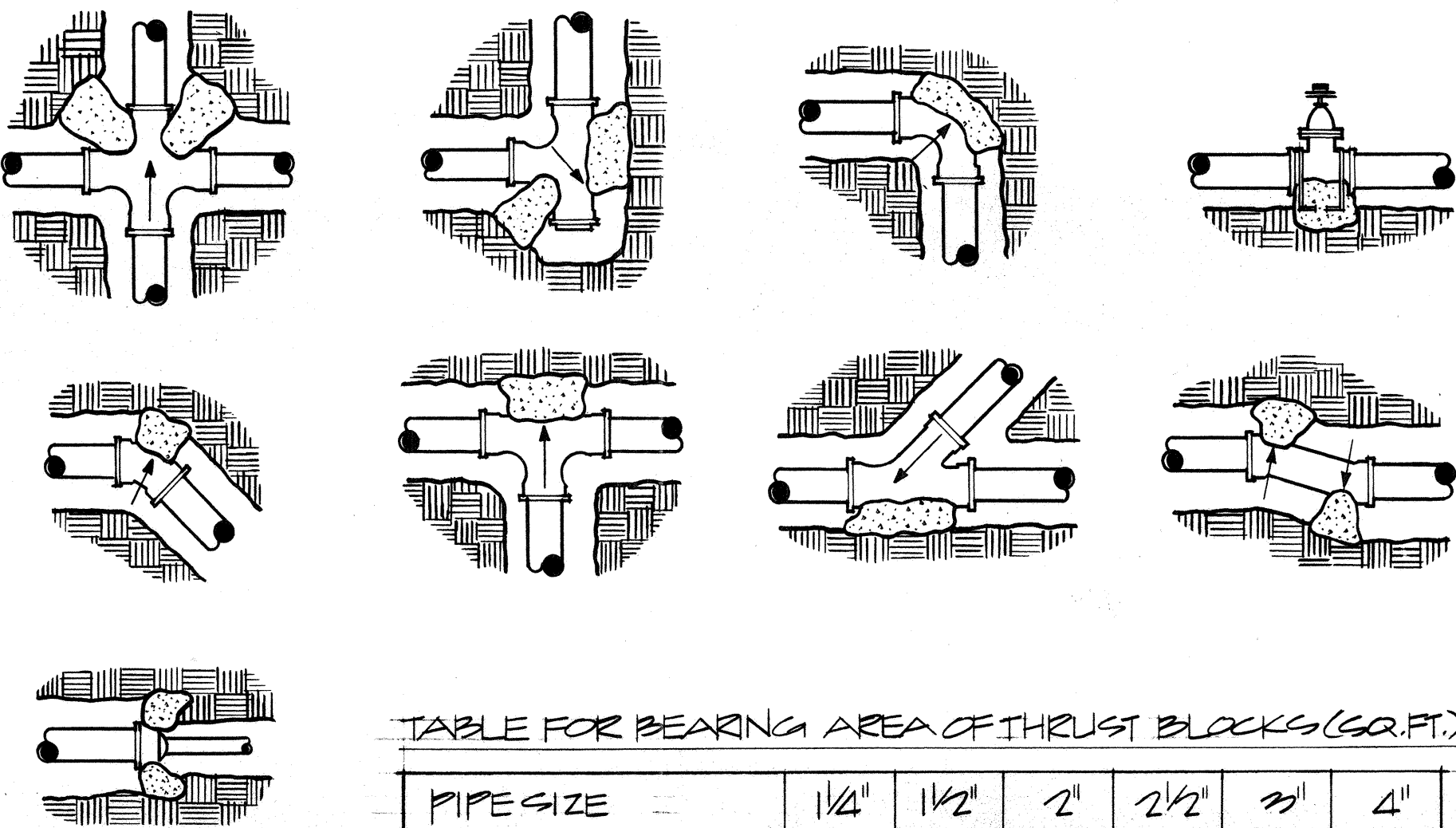
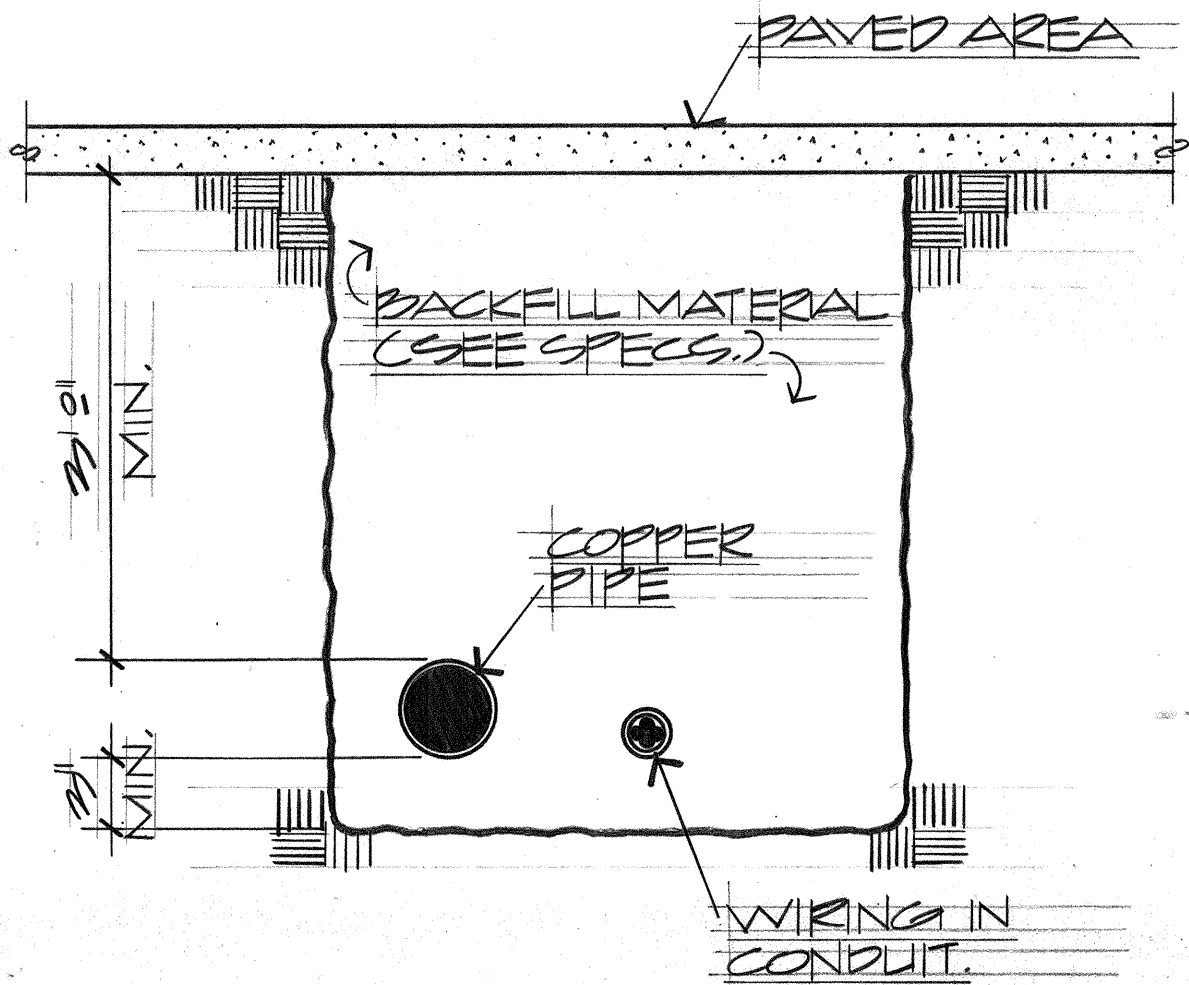


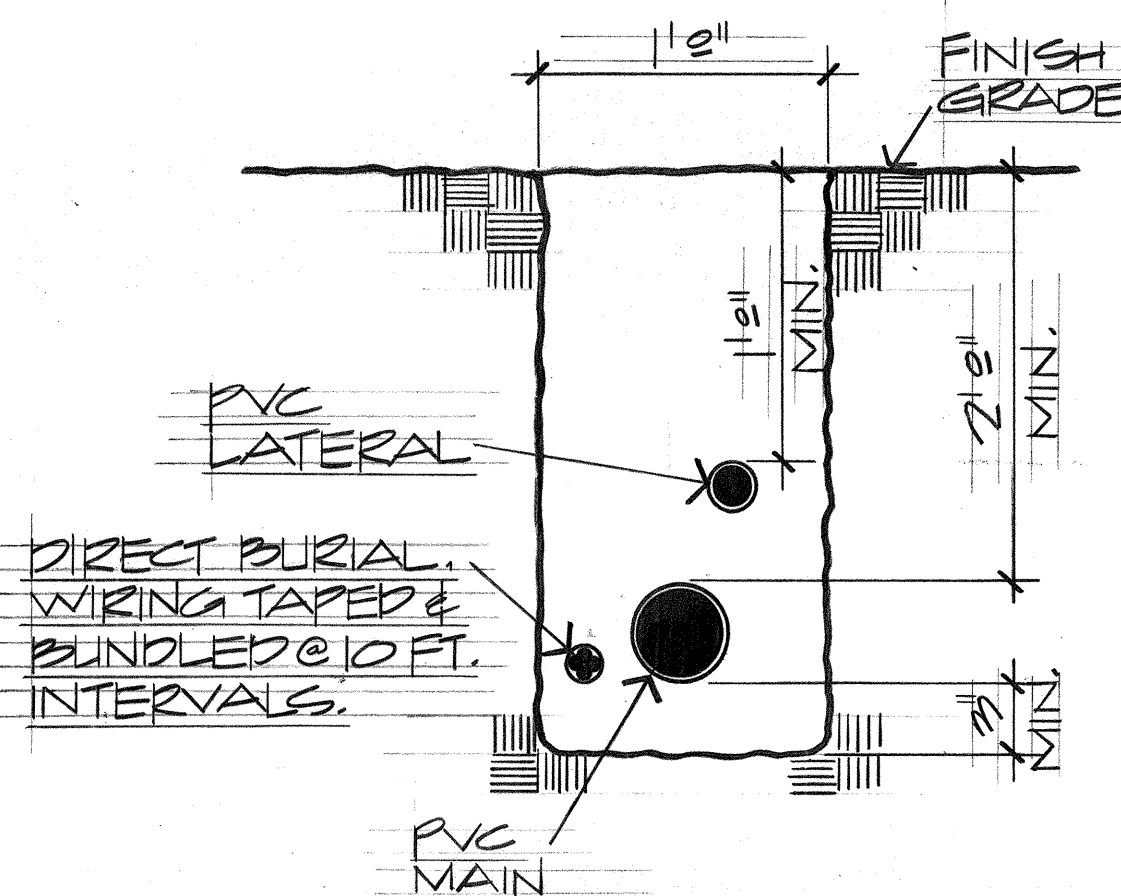
TABLE FOR BEARING AREA OF THRUST BLOCKS (SQ. FT.)

| PIPE SIZE      | 1/4"  | 1/2"  | 3/4"  | 1"    | 1 1/2" | 2"   |
|----------------|-------|-------|-------|-------|--------|------|
| TEES & CROSSES | 0.150 | 0.150 | 0.150 | 0.150 | 1.00   | 1.25 |
| 90° BEND       | 0.150 | 0.150 | 0.150 | 0.150 | 1.25   | 2.00 |
| 45° BEND       | 0.150 | 0.150 | 0.150 | 0.150 | 0.150  | 1.00 |

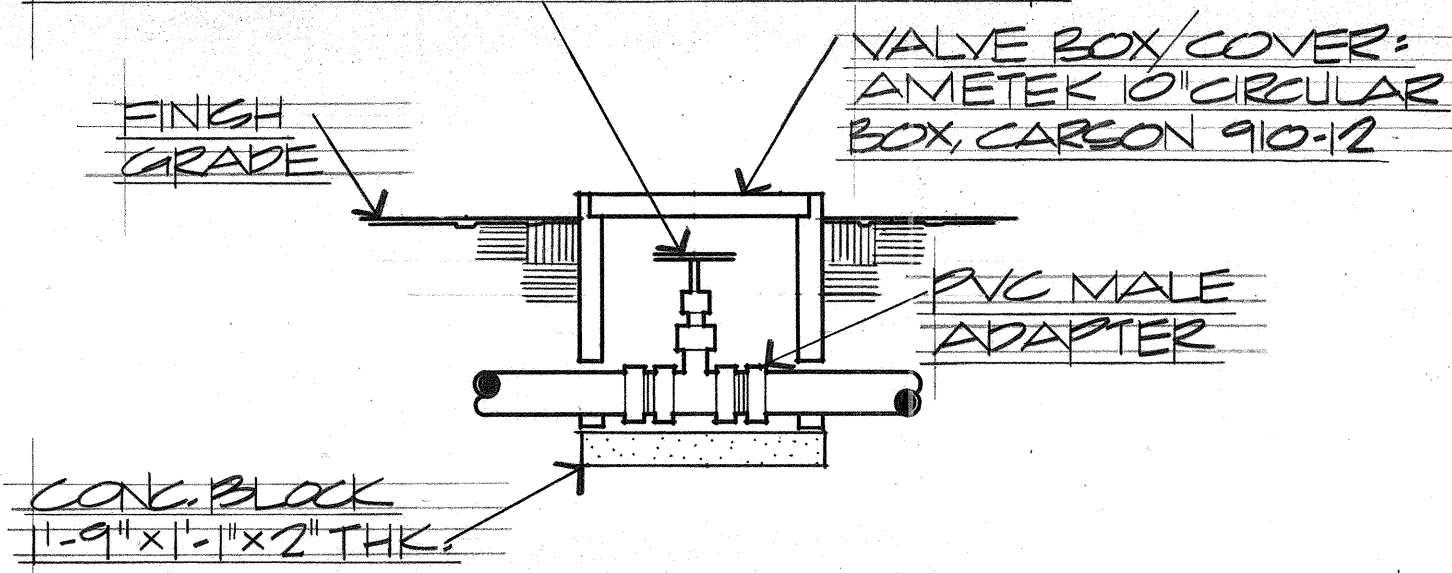
TYP. THRUST BLOCK DETS.  
NO SCALE



TYP. PIPE TRENCH DET.  
NO SCALE

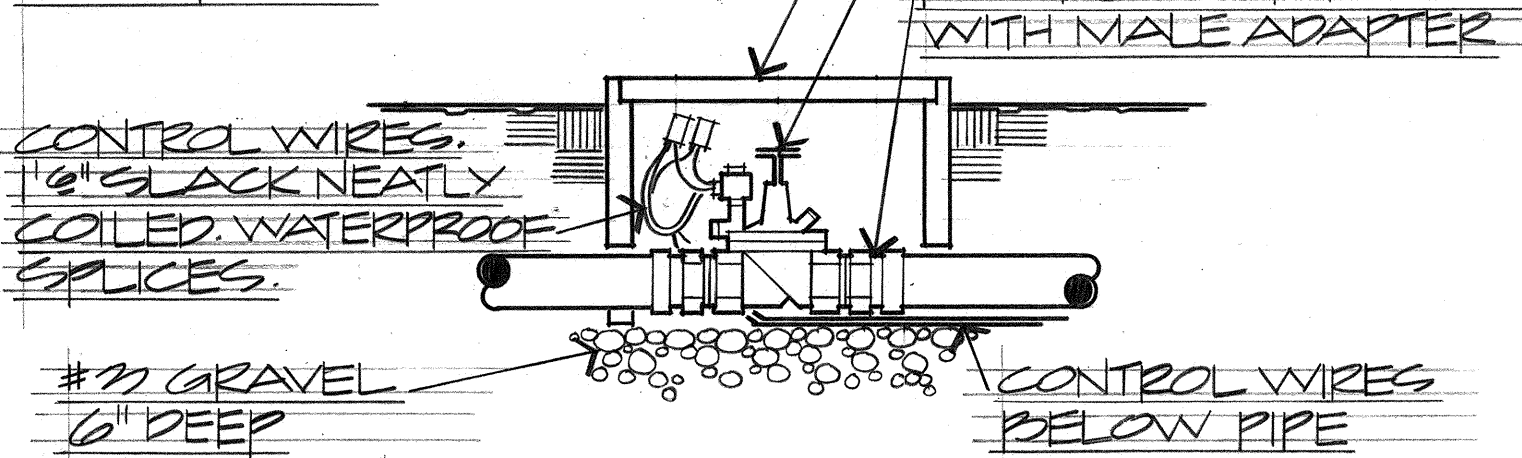


DO NOT INSTALL VALVES IN DRAINAGE SWALE  
BRONZE GATE VALVE  
2" SQUARE NUT - 2" VALVE & LARGER  
HANDWHEEL - 1 1/2" VALVE & SMALLER

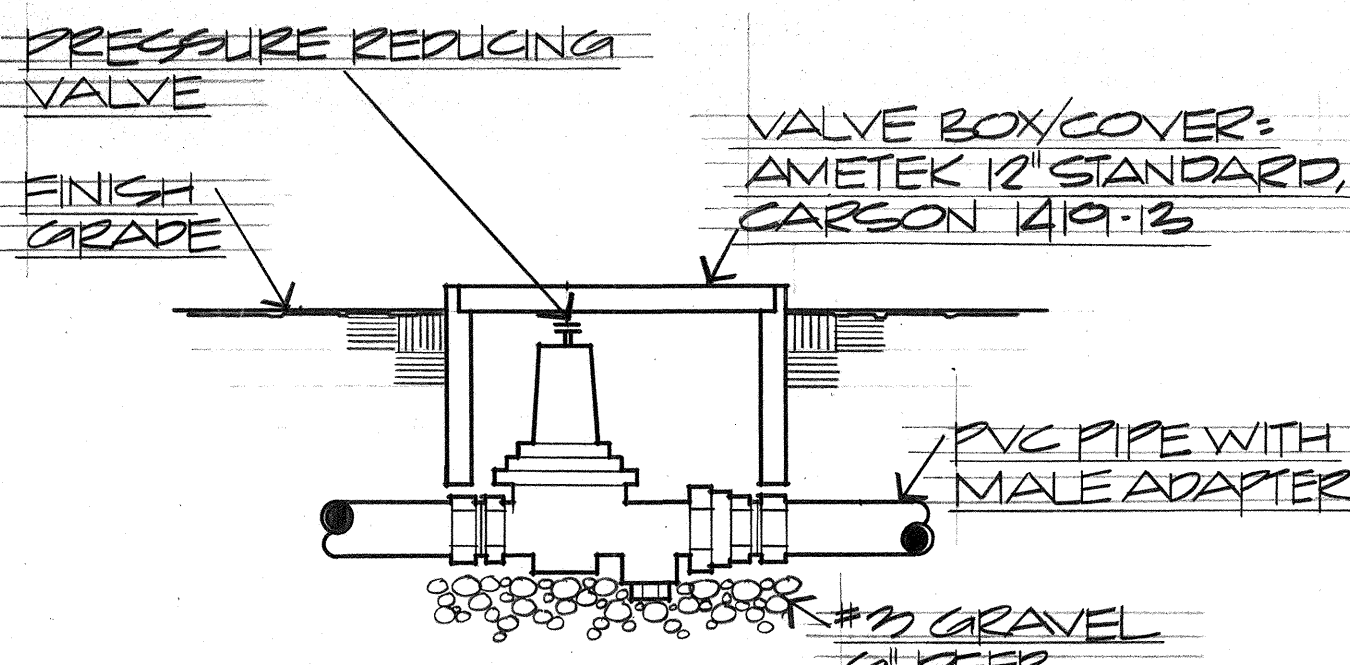


GATE VALVE DET.  
NO SCALE

VALVE PER VALVE BOX  
STENCIL CONTROLLER  
DESIGNATION & STATION  
NUMBER ON VALVE BOX  
COVER WITH 2" HIGH  
LETTERS & NUMBERS IN  
YELLOW EPOXY RESIN  
BASE PAINT.

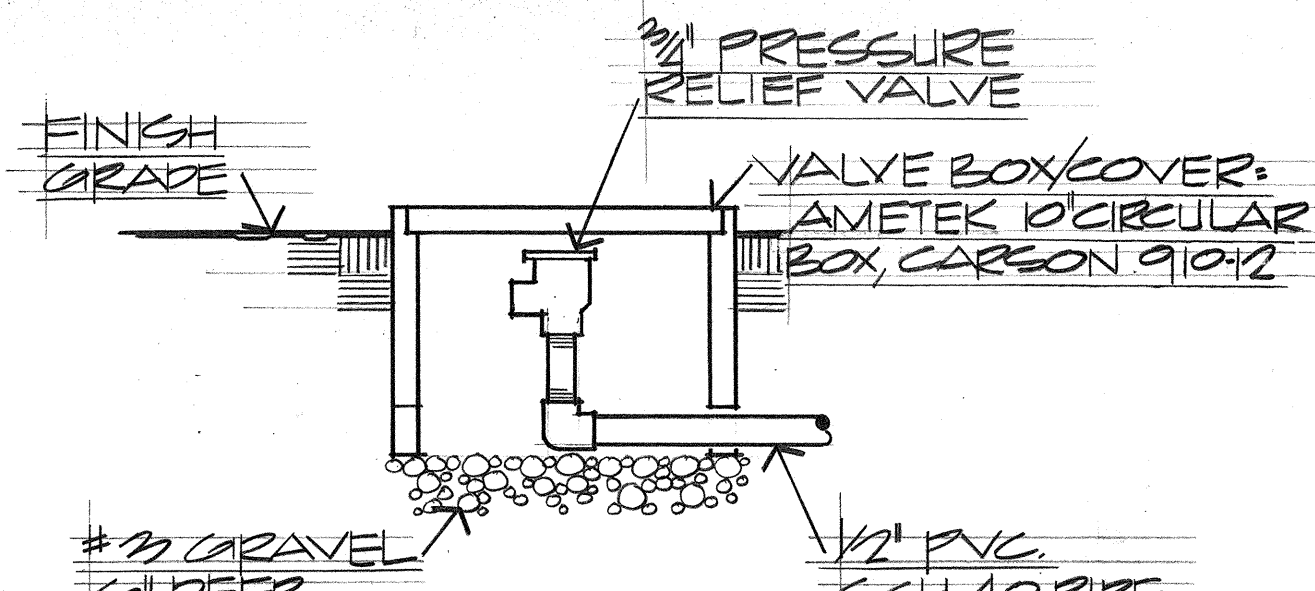


ELECTRIC VALVE DET.  
NO SCALE



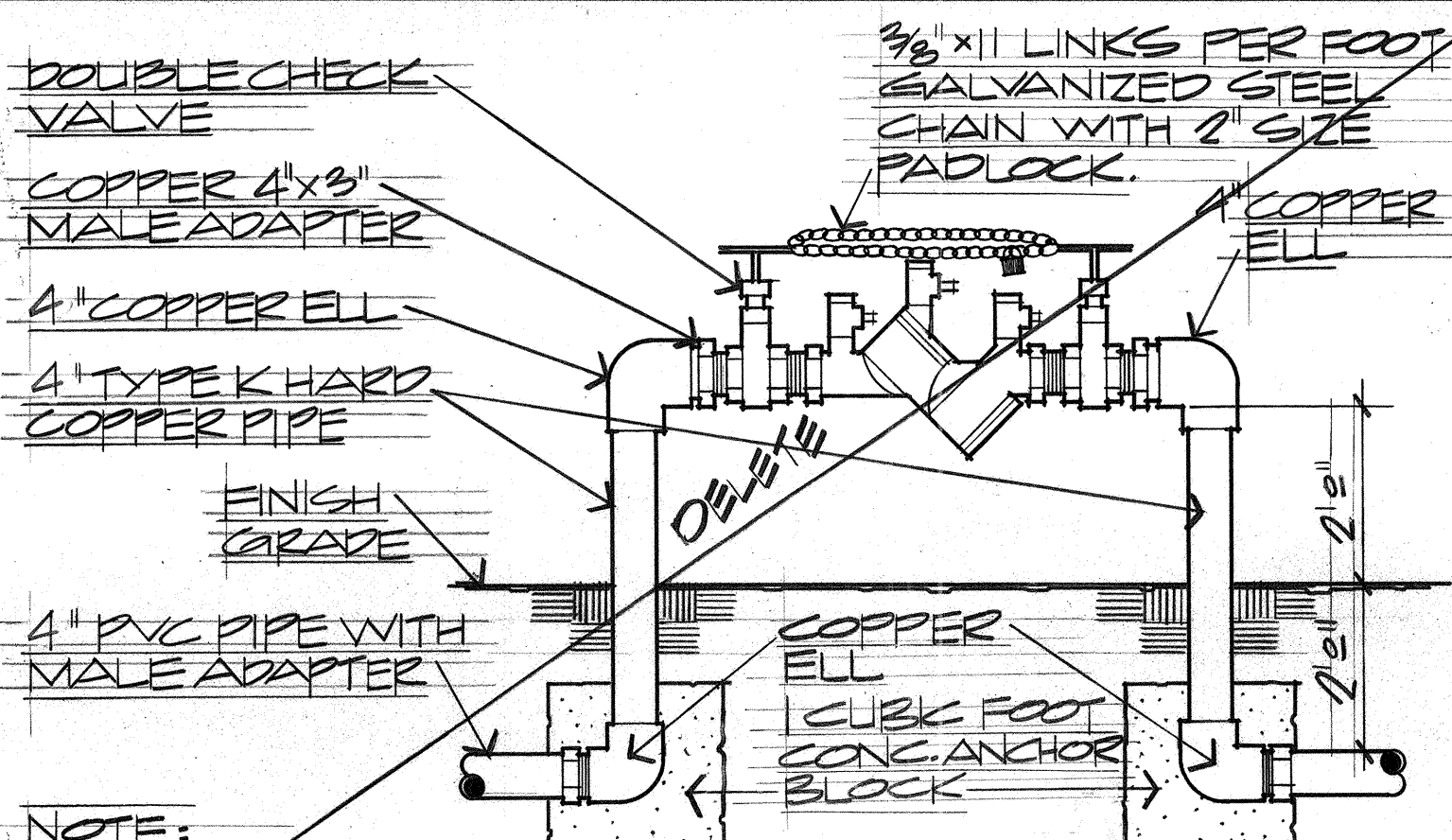
PRESSURE REDUCING VALVE DET.  
NO SCALE

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

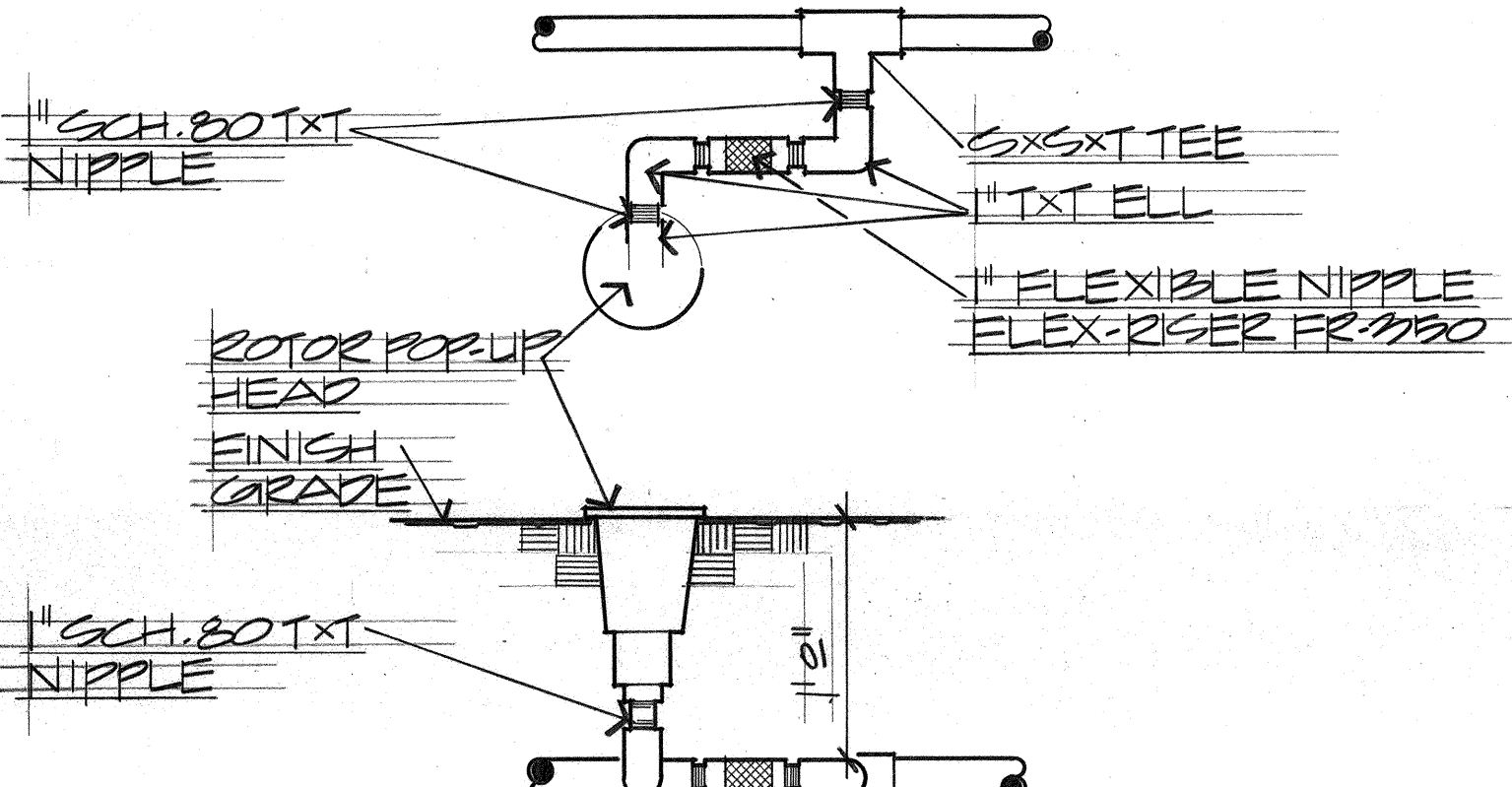


RELIEF VALVE DET.  
NO SCALE

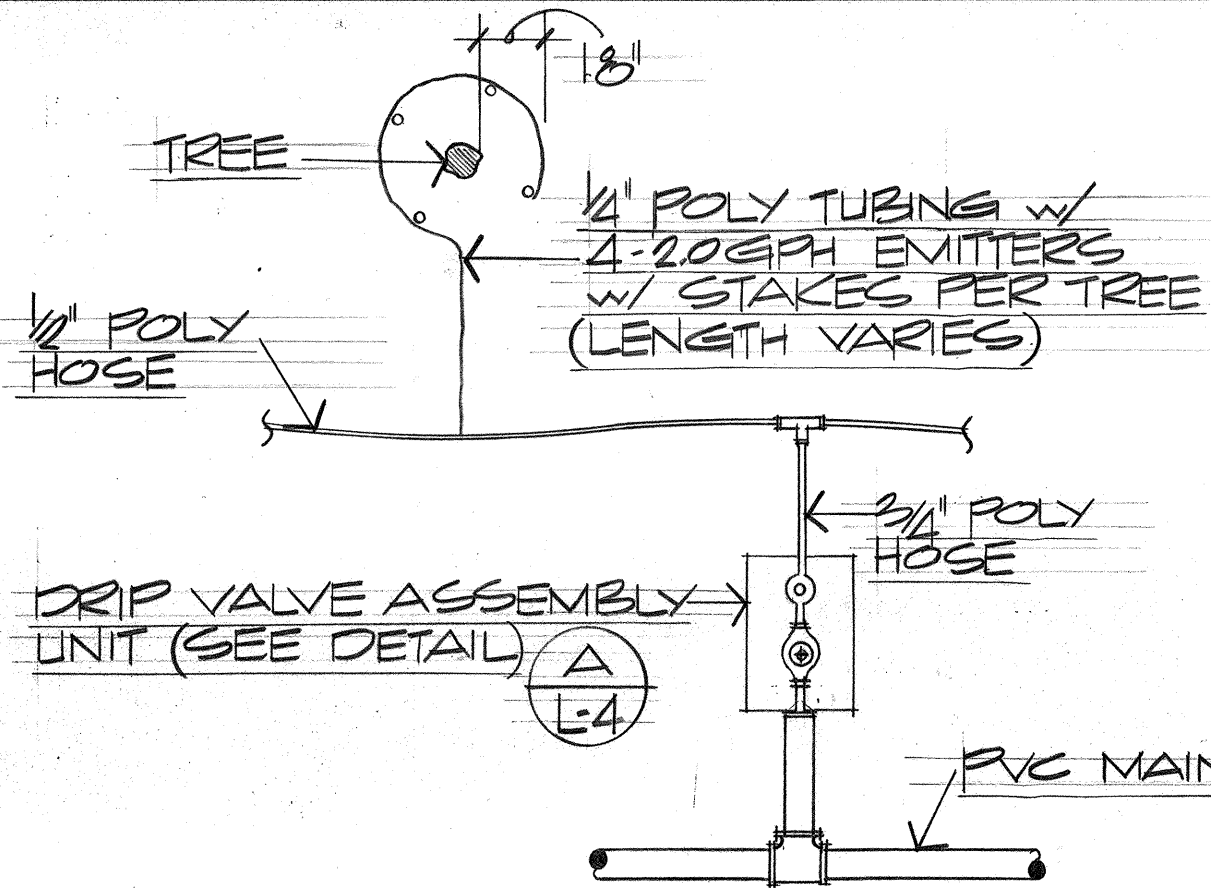
NOTE:  
INSTALL ALL VALVES 12" MIN. TO 24" MAX.  
FROM EDGE OF RIGHT-OF-WAY.



BACKFLOW PREVENTER DET.  
NO SCALE



ROTOR POP-UP HEAD DET.  
NO SCALE



TYP. DRIP IRRIGATION SYSTEM DET.  
NO SCALE



THIS WORK WAS PREPARED BY  
ME OR UNDER MY SUPERVISION.  
Signature

STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

IRRIGATION DETAILS

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

SCALE: NO SCALE DATE:

SHEET NO. L-3 OF 6 SHEETS