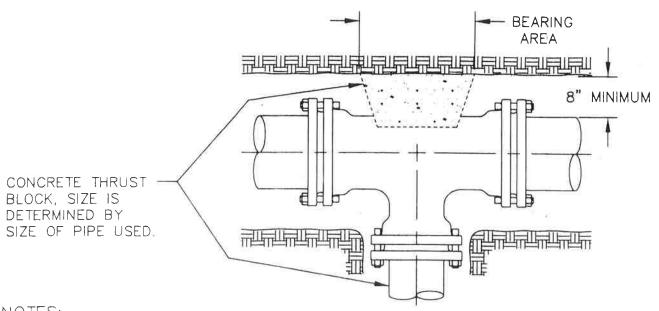
LAKELAND SOUTH BONNEY LAKE WATER SERVICE



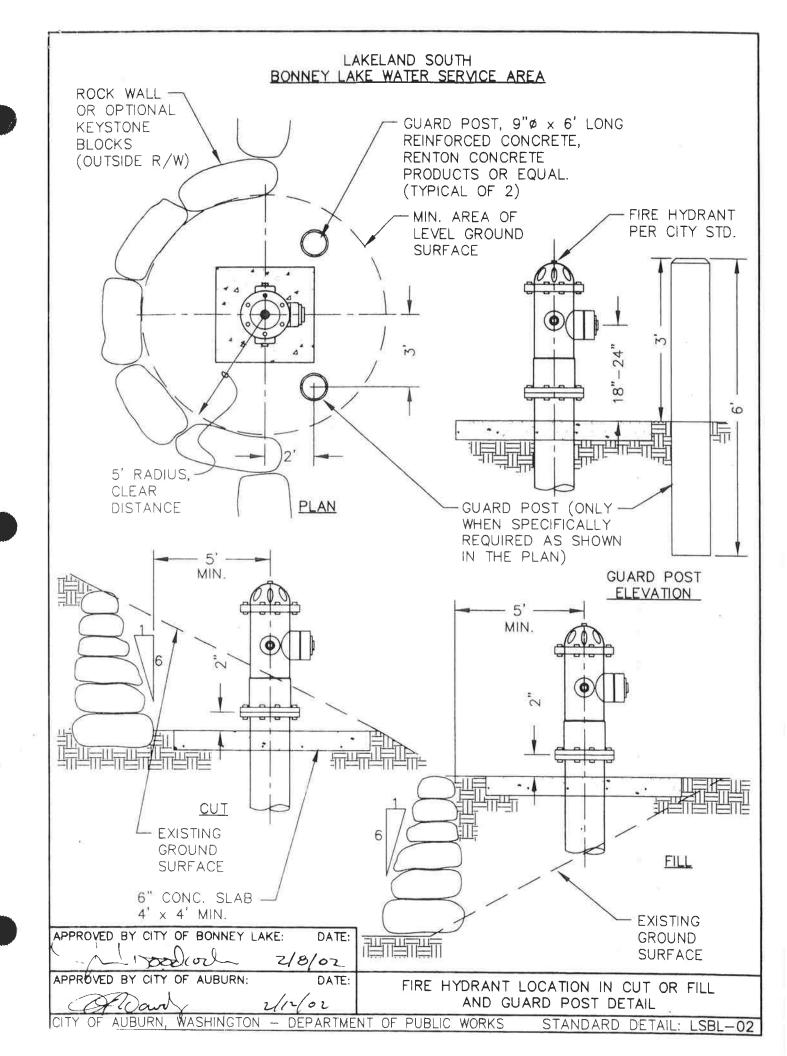
NOTES:

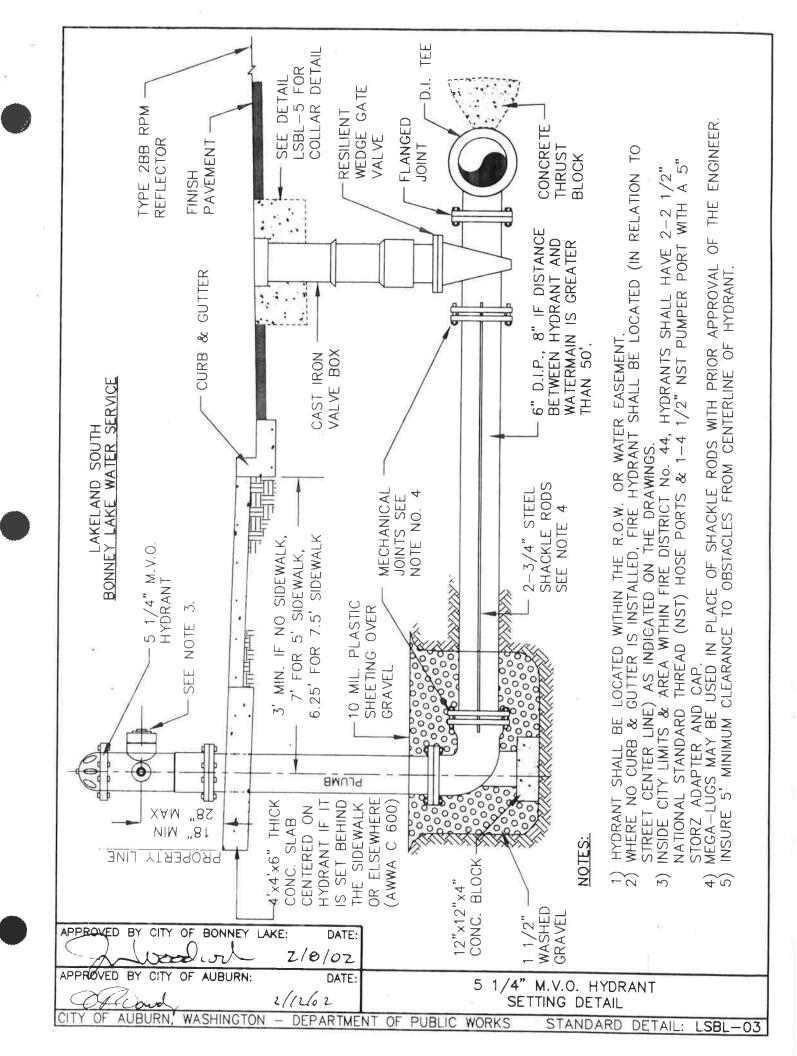
- 1) BLOCK HEIGHT SHALL BE EQUAL TO OR LESS THAN ONE HALF OF TOTAL DEPTH FROM GROUND SURFACE TO BLOCK BASE.
- 2) BLOCK SIZE BASED ON 250 PSI TEST PRESSURE.
- 3) WRAP FITTINGS WITH POLYETHYLENE PLASTIC BEFORE POURING CONCRETE THRUST BLOCK.

| FITTING SIZE | BEA | ARING AREA OF | BLOCK IN SQ | UARE FEET* | |
|--------------|-----------------------|---------------|--------------|-----------------|-----------------|
| (INCHES) | · TEES & PIPE ENDS | 90° BEND | 45° BEND | 22 1/2° BEND | 11 1/4° BEND |
| | 2000 F | SF SOIL BEAR | ING STRENGTH | | |
| | | | | | |
| 6 | 4 | 6 | 3 | 2 | 2 |
| 8 | 7 | 10 | 6 | 3 | 2 |
| 10 | 10 | 15 | 9 | 5 | 3 |
| 12 | 14 | 22 | 12 | 6 | 4 |
| 16 | 25 | 38* | 21 | 11 | 7 |
| 18 | 32* | 48* | 27* | 14 | 8 |

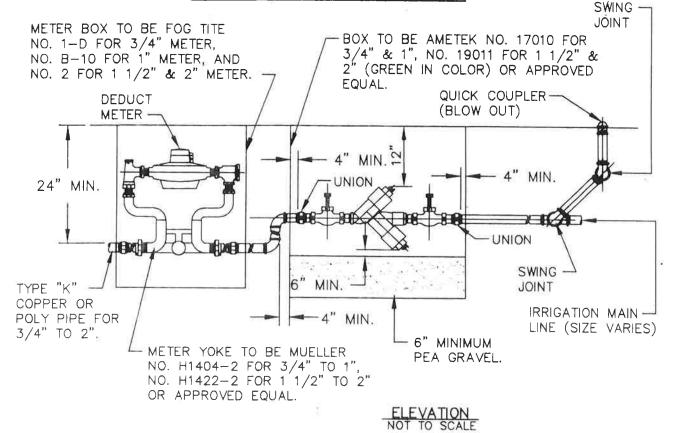
MAXIMUM BEARING AREA ALLOWED IS 25 S.F. BEARING AREA MAY BE REDUCED BY USING RODS, RESTRAINED JOINT PIPE OR CONDUCTING * SOILS TEST TO CONFIRM HIGHER SOIL BEARING

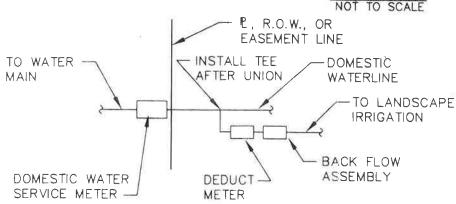
| APPROVED BY CITY OF BONNEY LAKE: DATE: | |
|--|---|
| 2/8/0Z | |
| APPROVED BY CITY OF AUBURN: DATE: | |
| AROUND 2/12/02 | WATER MAIN BLOCKING |
| CITY OF AUBURN, WASHINGTON - DEPARTMEN | NT OF PUBLIC WORKS STANDARD DETAIL: LSBL-01 |





LAKELAND SOUTH BONNEY LAKE WATER SERVICE AREA





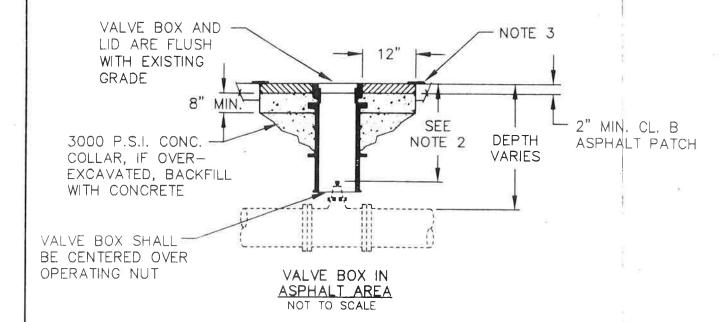
TYPICAL DEDUCT INSTALLATION PLAN
NOT TO SCALE

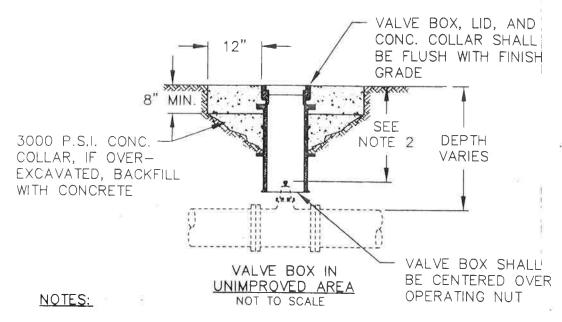
NOTES:

- 1) BACK FLOW ASSEMBLY SHALL HAVE A MINIMUM OF 12" CLEARANCE FROM ANY OBSTRUCTION ON THE TEST COCK SIDE. THERE SHALL BE A MAXIMUM OF 12" FROM TOP OF BOX TO TOP OF BACK FLOW ASSEMBLY.
 - 2) DOUBLE CHECK VALVE ASSEMBLY SHALL INCLUDE TWO RESILIENT SEATED SHUT OFF VALVES WITH TEST COCKS, AND BE ON THE LATEST D.S.H.S. AND CITY OF AUBURN APPROVED LIST.
 - 3) TEST COCKS SHALL BE PLUGGED WITH BRASS OR PLASTIC PLUGS.
 - 4) BACK FLOW ASSEMBLY SHALL BE TESTED BY A CERTIFIED TESTER UPON INSTALLATION AND ANNUALLY THEREAFTER AT OWNERS EXPENSE.

| APPROVED BY CITY OF BONNEY LA | | |
|-------------------------------|------------|--|
| Wadiorl | | |
| APPROVED BY CITY OF AUBURN: | DATE: | DEDUCT WETER WITH DOUBLE CHECK |
| CITY OF AUBURN, WASHINGTON | - DEPARTME | VALVE ASSEMBLY UP TO 2" NT OF PUBLIC WORKS STANDARD DETAIL: LSBL-04 |
| | | STATE BETAIL ESBE-04 |

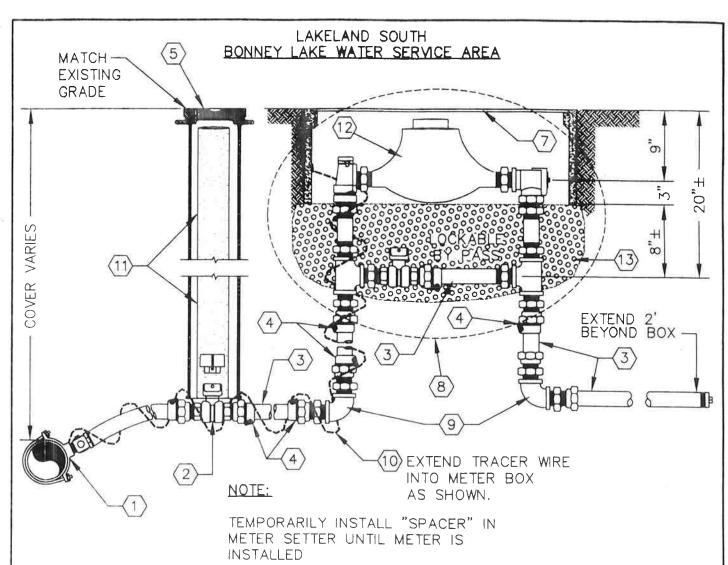
LAKELAND SOUTH BONNEY LAKE WATER SERVICE AREA





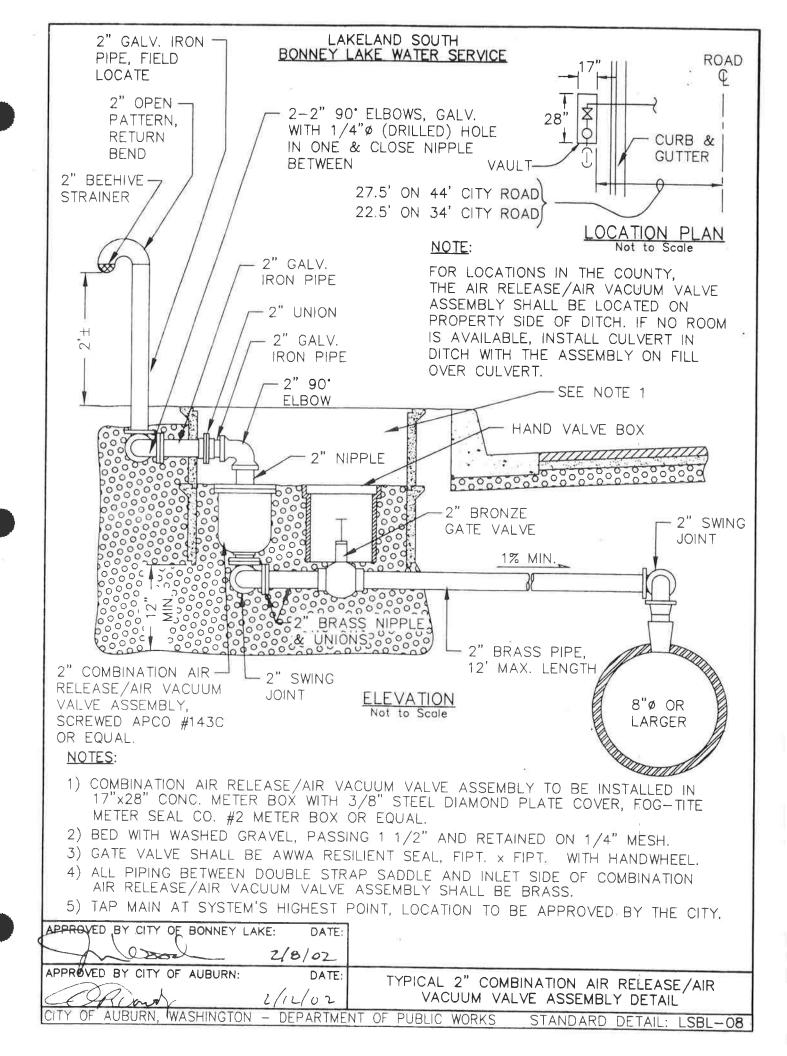
- 1) EACH VALVE BOX SHALL BE ADJUSTABLE CAST IRON OF 5" INSIDE DIAMETER, HAVE A TOP SECTION OF 18" MINIMUM LENGTH, AND SHALL BE RICH NO. 940 OR APPROVED EQUAL. EARS SHALL BE PLACED IN LINE WITH PIPE IT SERVES.
- 2) DEPTH OF OPERATING NUT SHALL BE 15" MINIMUM TO 36" MAXIMUM, INCLUDING EXTENSION WHEN REQUIRED.
- 3) SEAL CONCRETE COLLAR AND ASPHALT CONCRETE SEAMS WITH WITH AR 4000.

| APPROVED BY CITY OF BONNEY LAK | E: DATE: | | |
|--------------------------------|------------|---|----|
| A DOO W | - 2/8/02 | | |
| APPROVED BY CITY OF AUBURN: | DATE: | ADJUSTMENT OF NEW AND EXISTING UTILITY | |
| Tourk | 2/12/02 | STRUCTURES TO FINISH GRADE | |
| CITY OF AUBURN WASHINGTON - | - DEPARTME | NT OF PUBLIC WORKS STANDARD DETAIL: LSBL- | 05 |

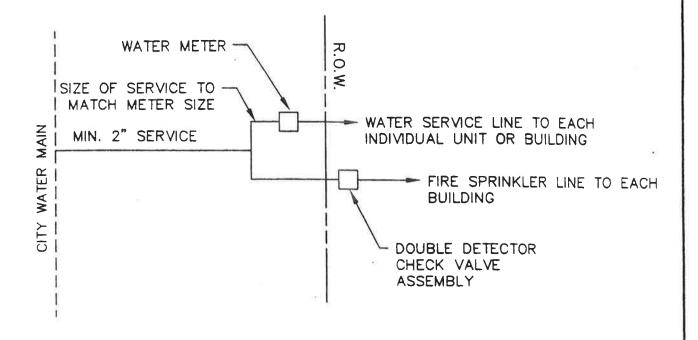


| | DESCRIPTION | MAKER OR RATING | 1 1/2" | 2" |
|-----------------------|---|----------------------|-----------------------|---------------------------|
| 1 2 | Double Strap Saddle Gate Or Ball Valve w/ 2" | Romac or Equal | 202 IPT Ball Valve | 202 IPT Resilient Seat |
| | ·Operating Nut | Ford or equal | B11-666 with | |
| (3) | Pipe — High Molecular Polyethylene Pipe (I.P.S.) | SDR7(200PSI) | Qt67 | |
| 4 | Coupling Male | Ford or Equal | C84-66 | C84-77 |
| (5) | Valve Box | Rich or Equal | (#) (| × |
| _ | Nipple Brass | | 1 1/2" × 6" | 2"x6" |
| $ \langle 7 \rangle$ | Meter Box | Fogtite#2 w/H2O Load | | |
| (8) | Meter Setter w/Lockable Bypass | Ford or Equal | VFH 66-12B | VFH 77-12B |
| 9 | Brass 90' Elbow | 5/0 | 1-1/2" | 2" |
| 10 | Tracer Wire | 14 Ga. Copper Wire | Solid | Solid |
| 1 | PVC Sleeve Beneath Pavement | PVC-Sch. 80 | 4"ø | 4"ø |
| 12 | SENSUS TOUCH-READ METER | | | 55 - 60 |
| 13 | 8" to 10" of 5/8" Minus Crushed Rock Top Course | - | | |
| | | | | |

| APPROVED BY CITY OF BONNEY LA | KE: DATE: | | | |
|-------------------------------|--------------|--------------------|----------------------|--|
| 1 woodcal | 2/8/02 | | | |
| APPROVED BY CITY OF AUBURN: | DATE: | 1 1/2" & 2" | WATER SERVICE and | |
| (Ofward) | 2/14/02 | | TERIAL LIST | |
| CITY OF AUBURN WASHINGTON | - DEPARTMENT | UE DIABITO, MUDING | STANDADD DETAIL LODI | |



LAKELAND SOUTH BONNEY LAKE WATER SERVICE AREA WATER DOUBLE SERVICE -MAIN STRAP, ROMAC -SWING-SADDLE WITH JOINTS 2" TAP & 3" LONG BRASS NIPPLE TO VALVE ∠2" BRASS PIPE, LENGTH VARIES CAP OR -17 1/4" × 28 5/8" METER PLUG BOX WITH 3/8" PLATE STEEL COVER, FOGTITE METER CO., CONCRETE . UNDISTURBED NO. 2 METER BOX OR APP-BLOCKING GROUND ROVED EQUAL. AS REQUIRED PLAN Not to Scale VALVE BOX, SEE-DETAIL LSBL-5 FOR DETAIL. ALLILLIA -2" BRASS 2" GATE VALVE -PIPE. -2" BRASS PIPE, WITH OPERATING NUT LENGTH VARIES 2" BRASS ELBOW WITH 1/4"ø (DRILLED) DRAIN HOLE. BRASS-THRUST SWING BLOCKING JOINTS 2 C.F. OF -1 1/2" ELEVATION 10 CU. FT. WASHED GRAVEL Not to Scale WASHED PASSING 1 1/2" AND RETAINED ROCK ON 1/4" MESH FOR DRAIN. NOTE: 1) THE OUTLET SHALL BE BRONZE 2 1/2 N.S.T. AND BE LOCKABLE TO PREVENT UNAUTHORIZED USE. APPROVED BY CITY OF BONNEY LAKE: DATE: sooda! 2/8/02 APPROVED BY CITY OF AUBURN: 2" BLOWOFF ASSEMBLY 2/12/02 DETAIL OF AUBURN, WASHINGTON - DEPARTMENT OF PUBLIC WORKS STANDARD DETAIL: LSBL-09



NOTES:

- 1) ABOVE DESIGN APPLICABLE TO SINGLE FAMILY.
- 2) CONNECTION TO CITY WATER MAIN PER CITY OF AUBURN REQUIREMENTS.
- 3) DOUBLE CHECK VALVE ASSEMBLY REQUIRED ON FIRE SPRINKLER LINE.
- 4) PLANS FOR SEPARATE FIRE SPRINKLER LINE MUST BE SUBMITTED AND APPROVED BY FIRE MARSHAL PRIOR TO INSTALLATION.

APPROVED BY CITY ENGINEER:

DATE:

3/4" TO 3" FIRE SPRINKLER LINES WITH DOMESTIC SERVICE LINE

URN, WA. - DEPT. OF PUBLIC WORKS STANDARD DETAIL: WATER-09

