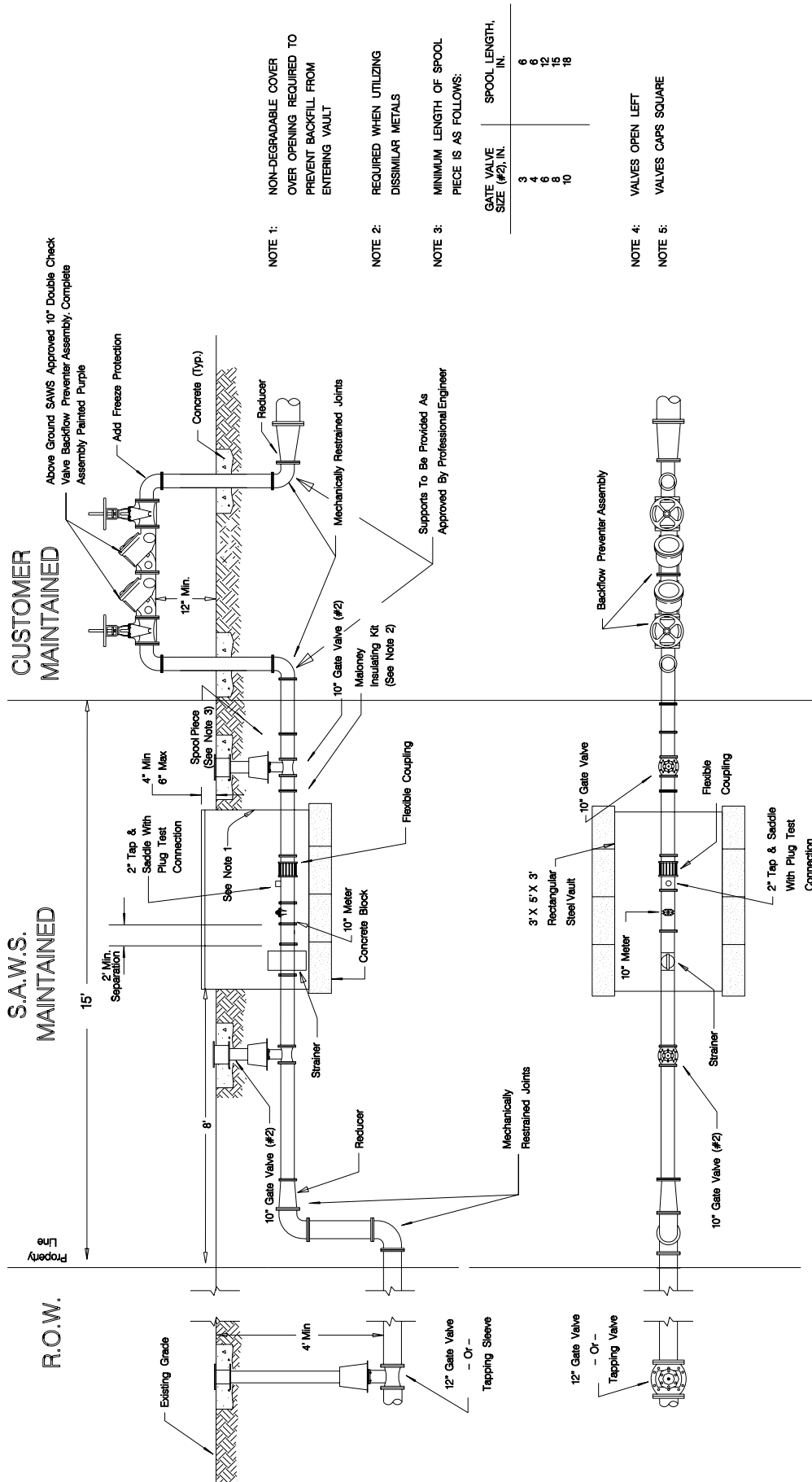


San Antonio Water System Standard Specifications for Construction

**ITEM NO. 110
RECYCLE WATER SYSTEM**

- 110.1** **DESCRIPTION:** Any work done on the existing or proposed recycled water distribution system shall be accomplished with the, SAWS Standard Specifications for Water, except as otherwise noted. All proposed construction plans and drawings must be reviewed and approved by the SAWS Backflow Prevention office prior to start of work.
- 110.2** **MATERIAL:** All material used in the improvement and/or construction of recycled water shall meet SAWS Standard Specifications for Water requirements and standards (i.e. uses of CSC pipe, trenching and excavation, etc...), except as otherwise noted, and must be wrapped or painted with pantone 512 color.
- 110.3** **INSTALLATION:** The installation of any recycle water main(s) shall be done in accordance with the SAWS Standard Specifications for Water, except as otherwise noted. Recycle mains shall also be installed with the TCEQ required separation distance between sewer and/or water mains as required by chapters 210, 290, and 317. (317 is under revision at present and will become 217.)
- 110.4** **PAYMENT:** All work shall be paid in accordance with the other applicable specifications.

12" pipe, 10" meter
TRAFFIC AREA



- NOTE 1: NON-DEGRADABLE COVER OVER OPENING REQUIRED TO PREVENT BACKFILL FROM ENTERING VAULT
- NOTE 2: REQUIRED WHEN UTILIZING DISSIMILAR METALS
- NOTE 3: MINIMUM LENGTH OF SPOOL PIECE IS AS FOLLOWS:

GATE VALVE SIZE (#2), IN.	SPOOL LENGTH, IN.
3	6
4	8
6	12
8	15
10	18

- NOTE 4: VALVES OPEN LEFT
- NOTE 5: VALVES CAPS SQUARE

PROPERTY OF
SAN ANTONIO WATER SYSTEM
SAN ANTONIO, TEXAS

RECYCLE WATER
12" X 10" METER AND
DOUBLE CHECK VALVE
BACKFLOW PREVENTER

APPROVED
March 2008

REVISED

DD-110-01

SHEET
1 OF 1

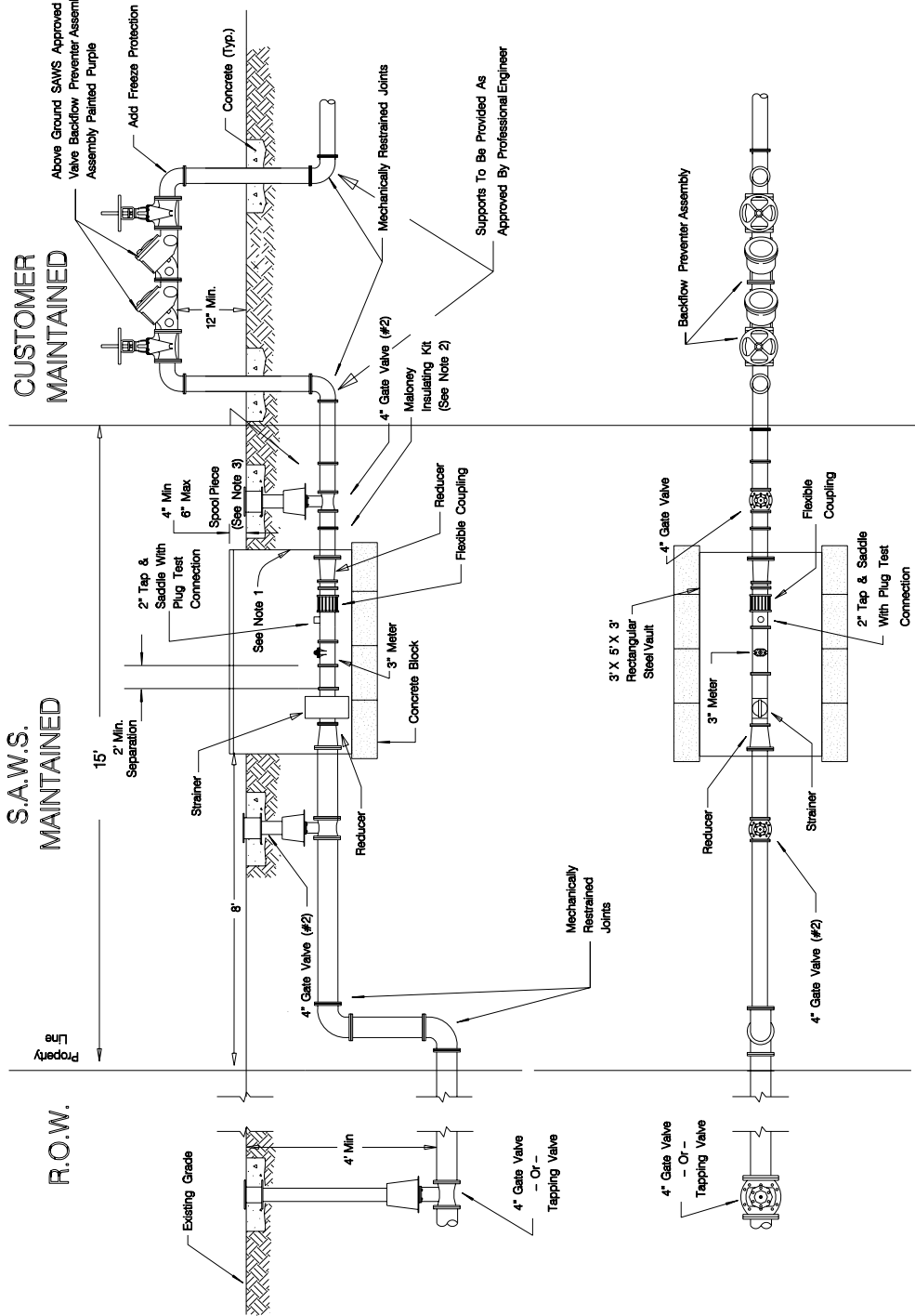
4" pipe, 3" meter
TRAFFIC AREA

CUSTOMER
MAINTAINED

S.A.W.S.
MAINTAINED

Property

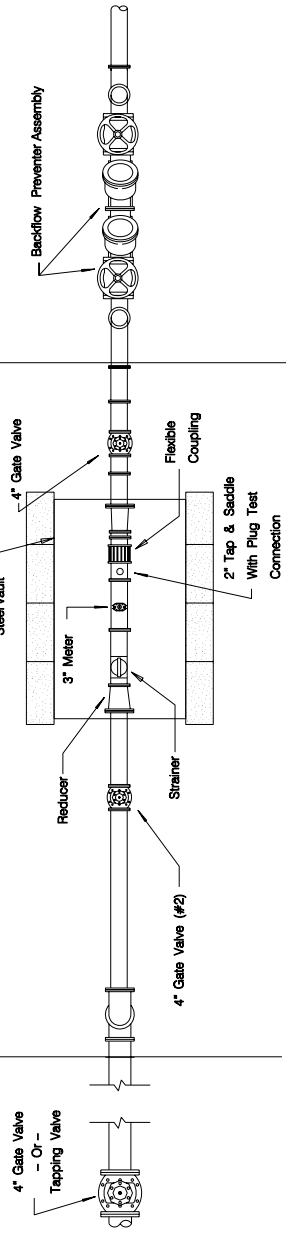
R.O.W.



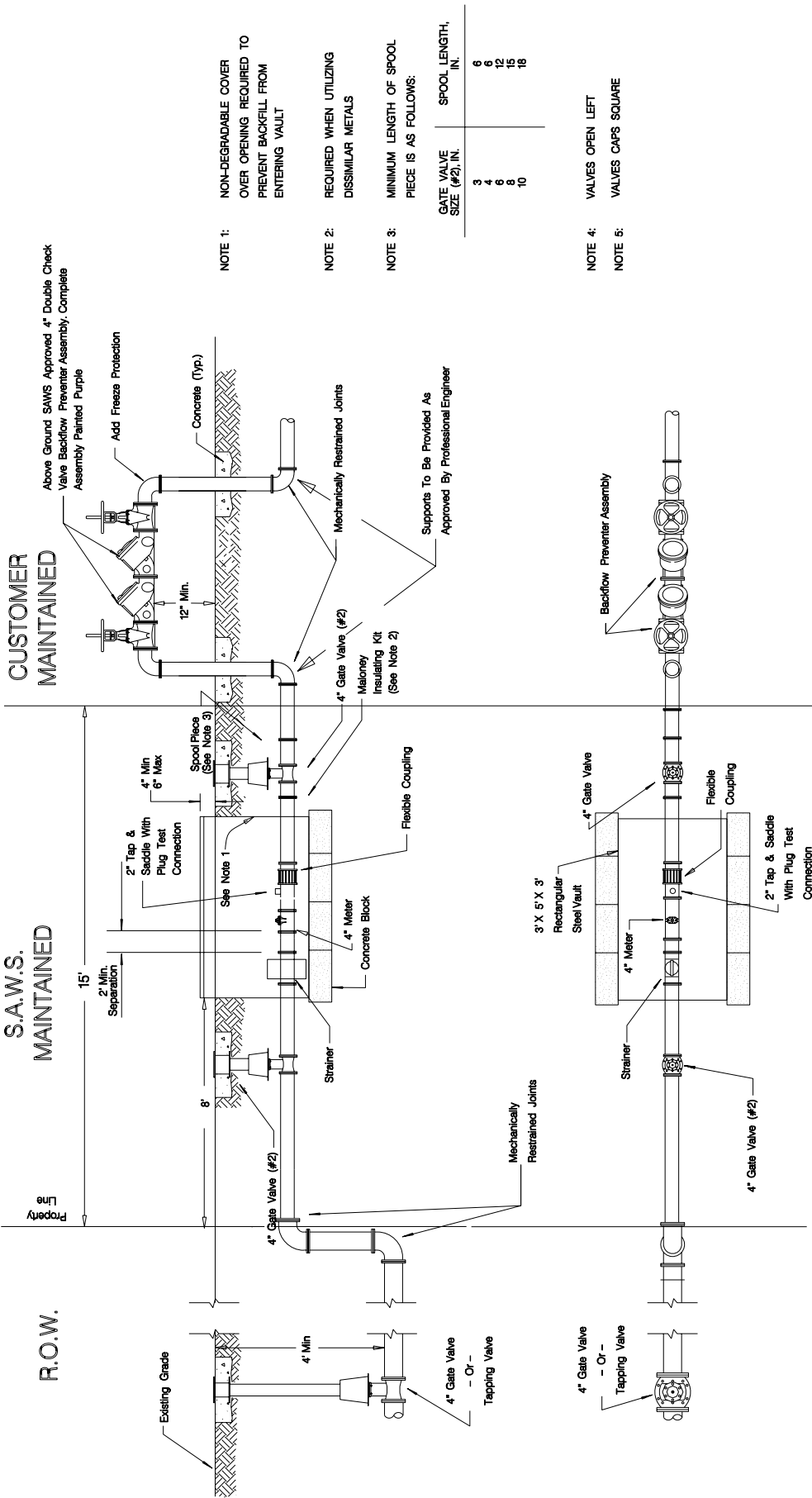
- NOTE 1: NON-DEGRADABLE COVER OVER OPENING REQUIRED TO PREVENT BACKFILL FROM ENTERING VAULT
- NOTE 2: REQUIRED WHEN UTILIZING DISSIMILAR METALS
- NOTE 3: MINIMUM LENGTH OF SPOOL PIECE IS AS FOLLOWS:

GATE VALVE SIZE (#2), IN.	SPOOL LENGTH, IN.
3	6
4	12
6	15
8	18
10	

- NOTE 4: VALVES OPEN LEFT
- NOTE 5: VALVES CAPS SQUARE



4" pipe, 4" meter
TRAFFIC AREA



NOTE 1: NON-DEGRADABLE COVER OVER OPENING REQUIRED TO PREVENT BACKFILL FROM ENTERING VAULT

NOTE 2: REQUIRED WHEN UTILIZING DISSIMILAR METALS

NOTE 3: MINIMUM LENGTH OF SPOOL PIECE IS AS FOLLOWS:

GATE VALVE SIZE (#2), IN.	SPOOL LENGTH, IN.
3	6
4	6
6	12
8	15
10	18

NOTE 4: VALVES OPEN LEFT

NOTE 5: VALVES CAPS SQUARE

PROPERTY OF
SAN ANTONIO WATER SYSTEM
SAN ANTONIO, TEXAS

RECYCLE WATER
4" X 4" METER AND
DOUBLE CHECK VALVE
BACKFLOW PREVENTER

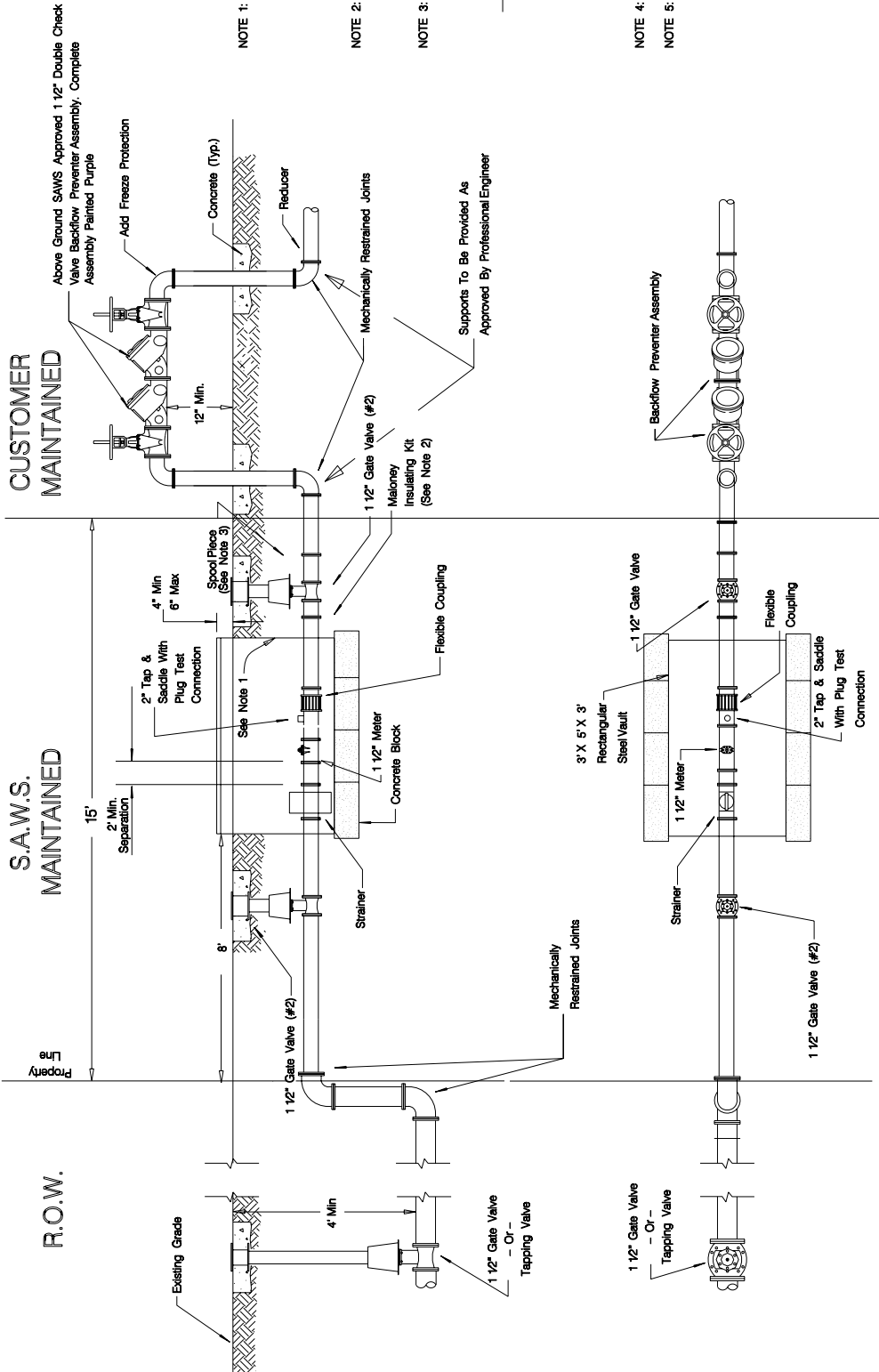
APPROVED
March 2008

REVISED

DD-110-04

SHEET
1 OF 1

1 1/2" pipe, 1 1/2" meter
TRAFFIC AREA



NOTE 1: NON-DEGRADABLE COVER OVER OPENING REQUIRED TO PREVENT BACKFILL FROM ENTERING VAULT

NOTE 2: REQUIRED WHEN UTILIZING DISSIMILAR METALS

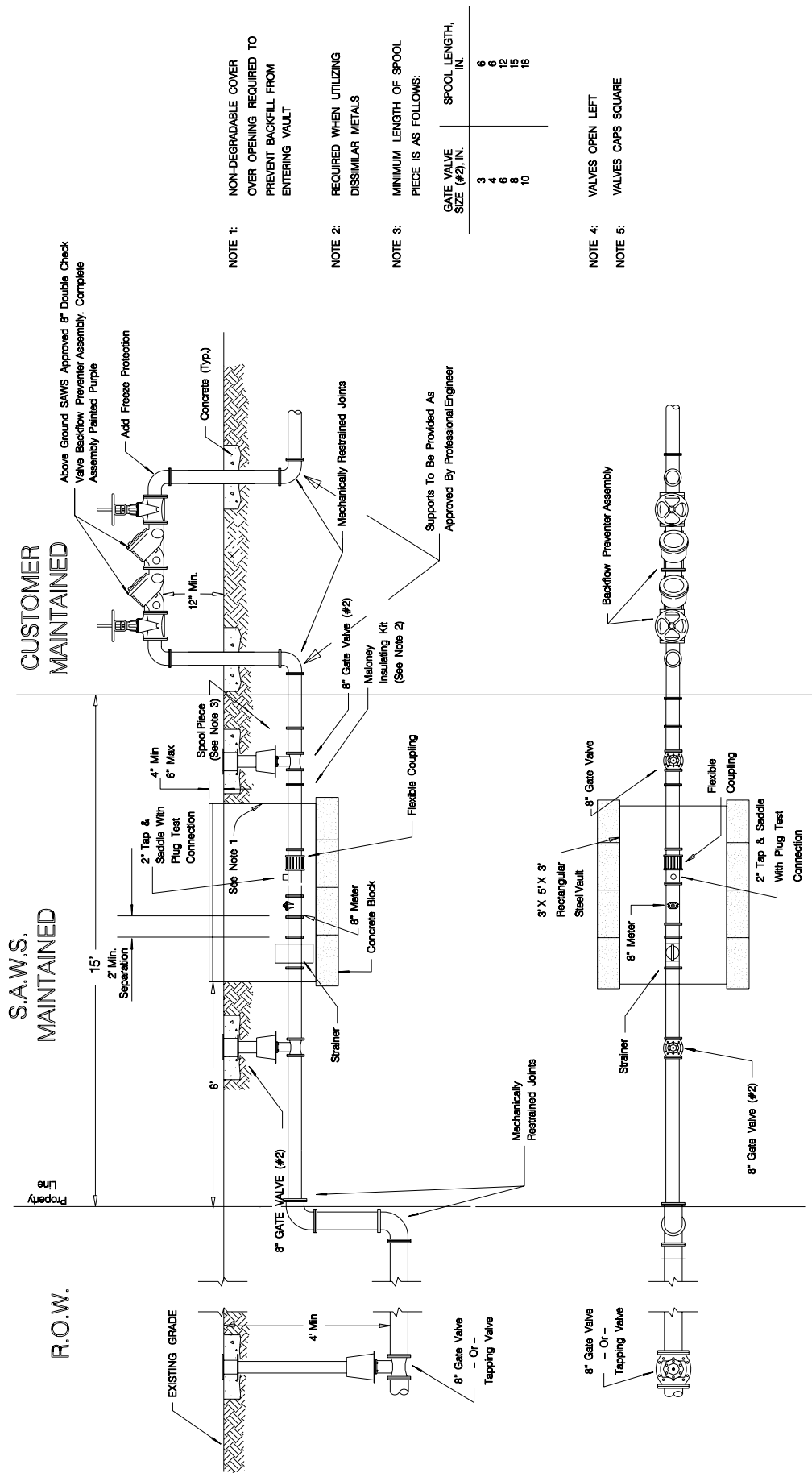
NOTE 3: MINIMUM LENGTH OF SPOOL PIECE IS AS FOLLOWS:

GATE VALVE SIZE (#2), IN.	SPOOL LENGTH, IN.
3	6
4	12
6	15
8	15
10	18

NOTE 4: VALVES OPEN LEFT

NOTE 5: VALVES CAPS SQUARE

8" pipe, 8" meter
TRAFFIC AREA



PROPERTY OF
SAN ANTONIO WATER SYSTEM
SAN ANTONIO, TEXAS

RECYCLE WATER
8" X 8" METER AND
DOUBLE CHECK VALVE
BACKFLOW PREVENTER

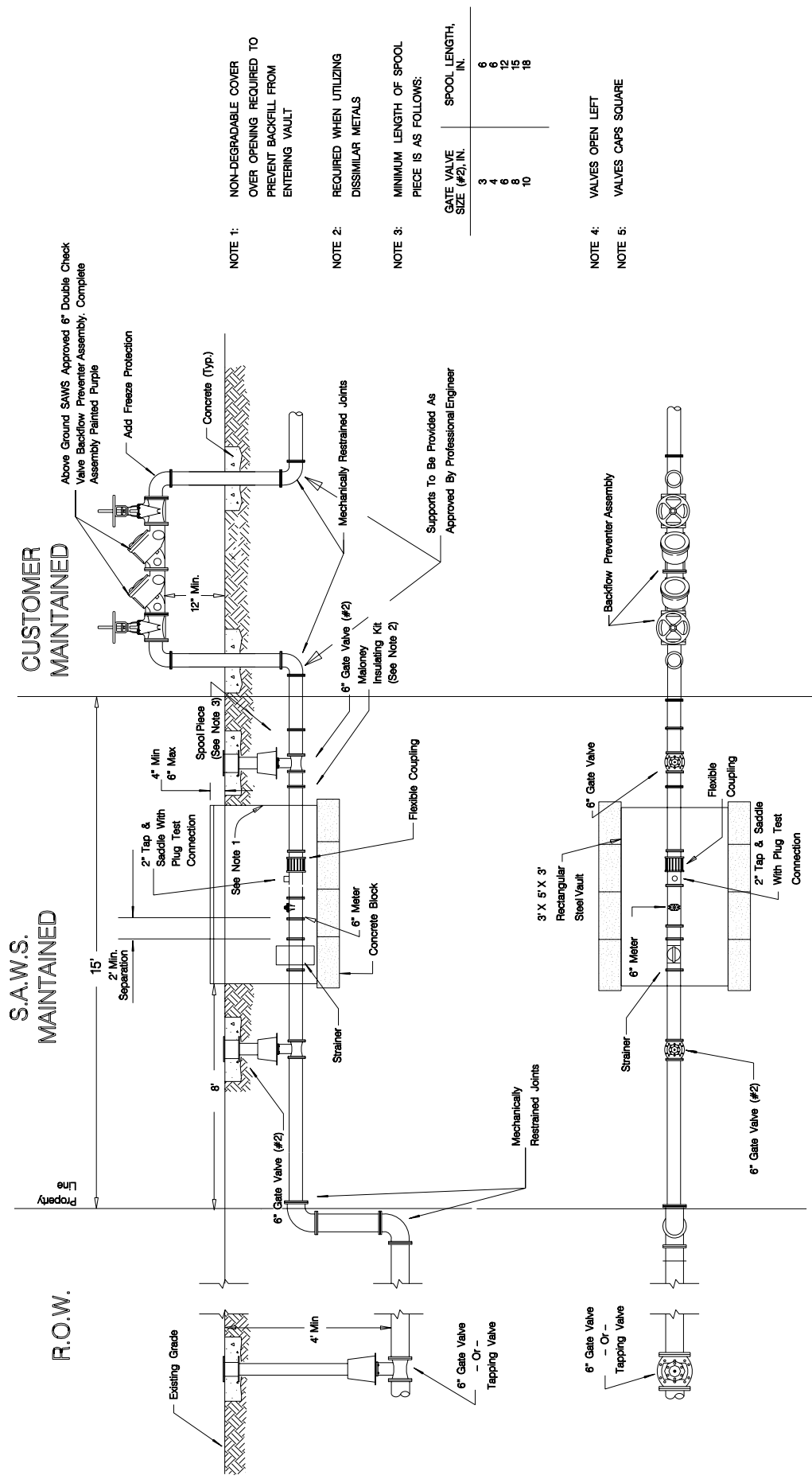
APPROVED
March 2008

REVISED

DD-110-06

SHEET
1 OF 1

6" pipe, 6" meter
TRAFFIC AREA



GATE VALVE SIZE (#2), IN.	SPOOL LENGTH, IN.
3	6
4	6
6	12
8	15
10	18

- NOTE 1: NON-DEGRADABLE COVER OVER OPENING REQUIRED TO PREVENT BACKFILL FROM ENTERING VAULT
- NOTE 2: REQUIRED WHEN UTILIZING DISSIMILAR METALS
- NOTE 3: MINIMUM LENGTH OF SPOOL PIECE IS AS FOLLOWS:
- NOTE 4: VALVES OPEN LEFT
- NOTE 5: VALVES CAPS SQUARE

PROPERTY OF
SAN ANTONIO WATER SYSTEM
SAN ANTONIO, TEXAS

RECYCLE WATER
6" X 6" METER AND
DOUBLE CHECK VALVE
BACKFLOW PREVENTER

APPROVED
March 2008

REVISED

DD-110-09

SHEET
1 OF 1