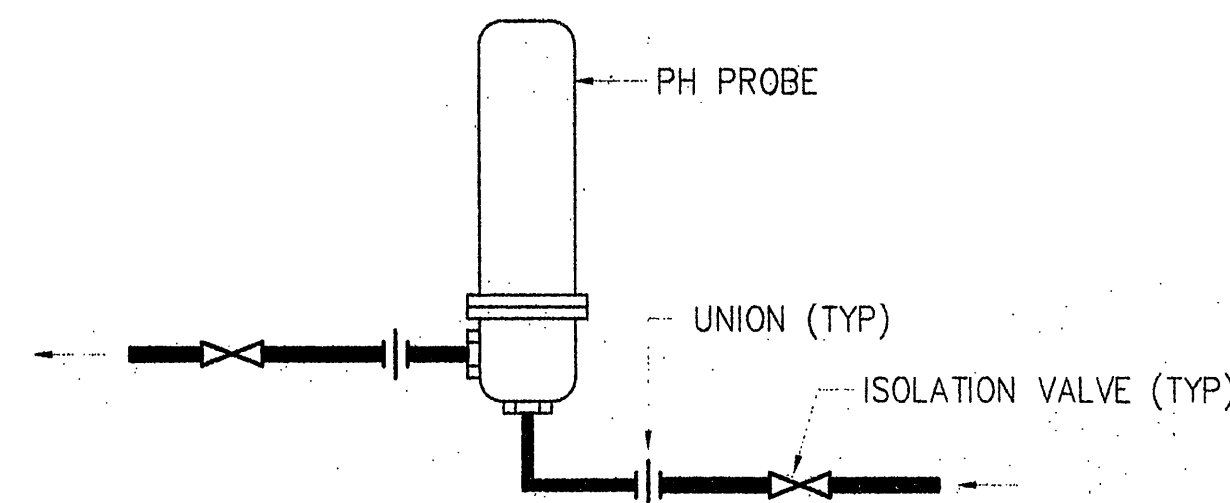
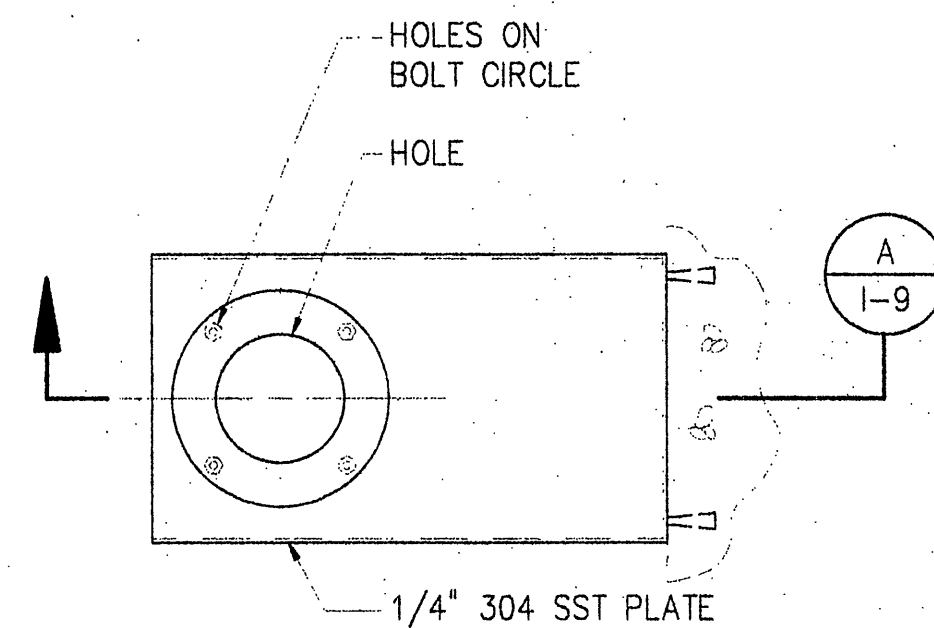




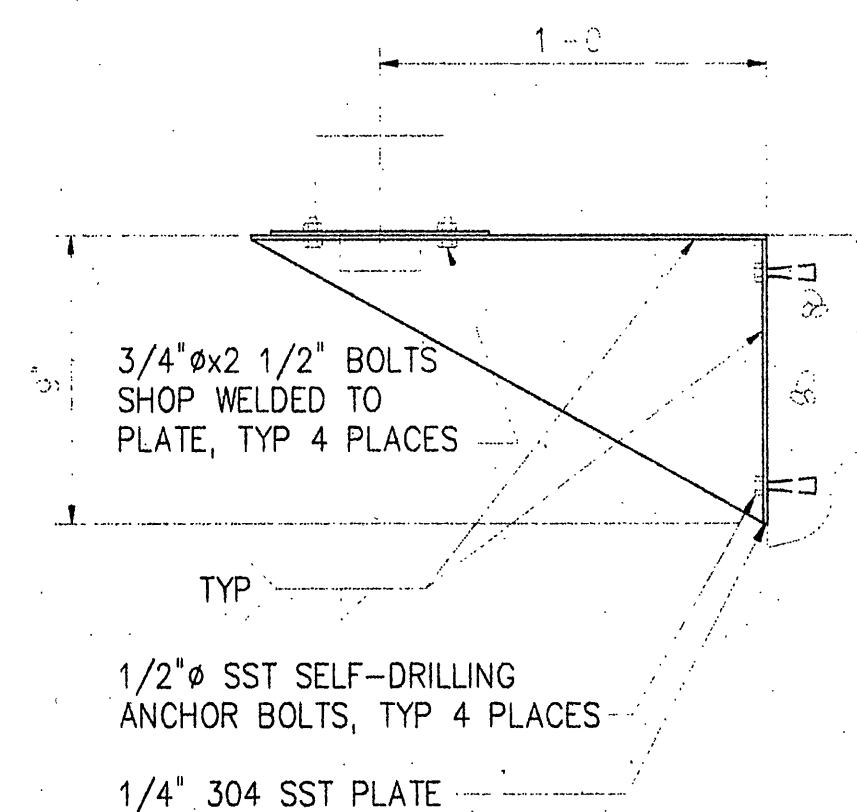
IN-LINE PH PROBE

DETAIL 2
NOT TO SCALE STD



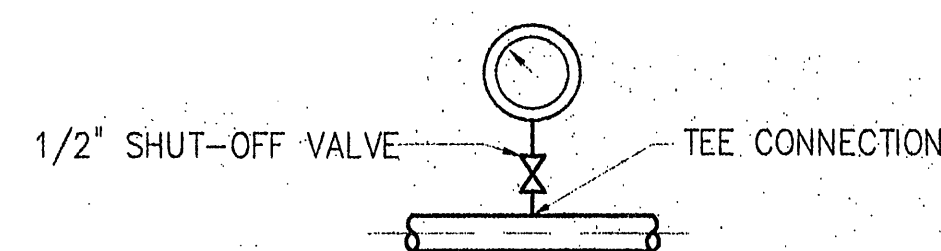
LEVEL TRANSDUCER
WALL MOUNTING DETAIL

DETAIL 1
NOT TO SCALE STD



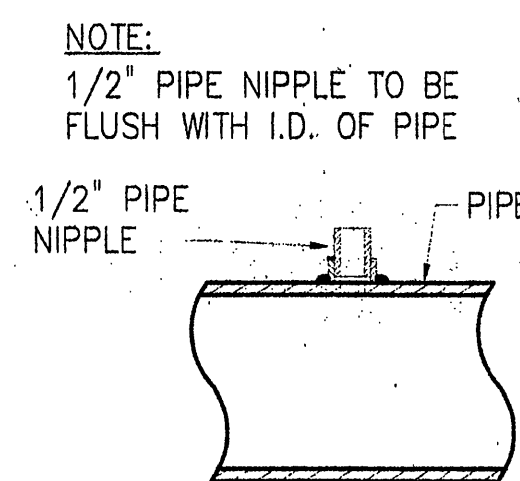
NOTE: VERIFY FLANGE MOUNTING REQUIREMENTS WITH INSTRUMENT MANUFACTURER.

SECTION A
NOT TO SCALE 1-9



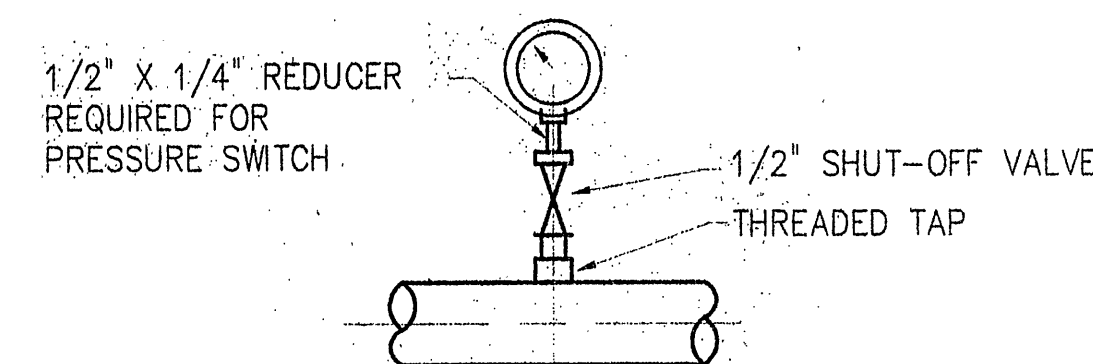
PRESSURE GAUGE OR SWITCH
INSTALLATION WITH TEE CONNECTION
(SHOWN W/O DIAPHRAGM SEAL)
USED FOR PIPES UNDER 2"

DETAIL 3
NOT TO SCALE STD



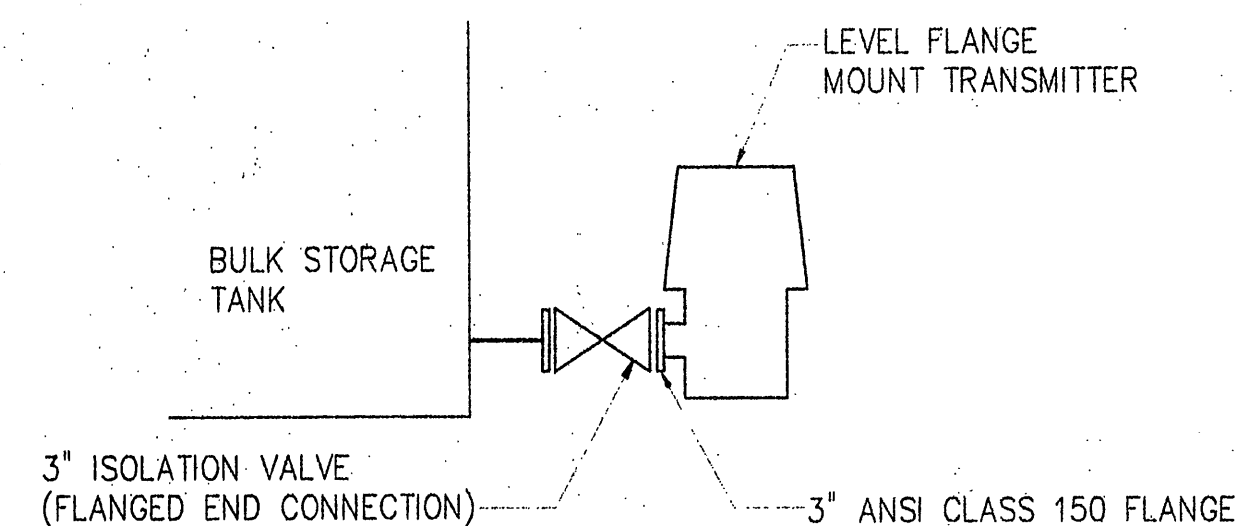
PRESSURE TAP

DETAIL 4
NOT TO SCALE STD



PRESSURE GAUGE OR SWITCH
INSTALLATION WITH THREADED CAP
(SHOWN WITHOUT DIAPHRAGM SEAL)
USED FOR PIPES 2" AND LARGER

DETAIL 5
NOT TO SCALE STD

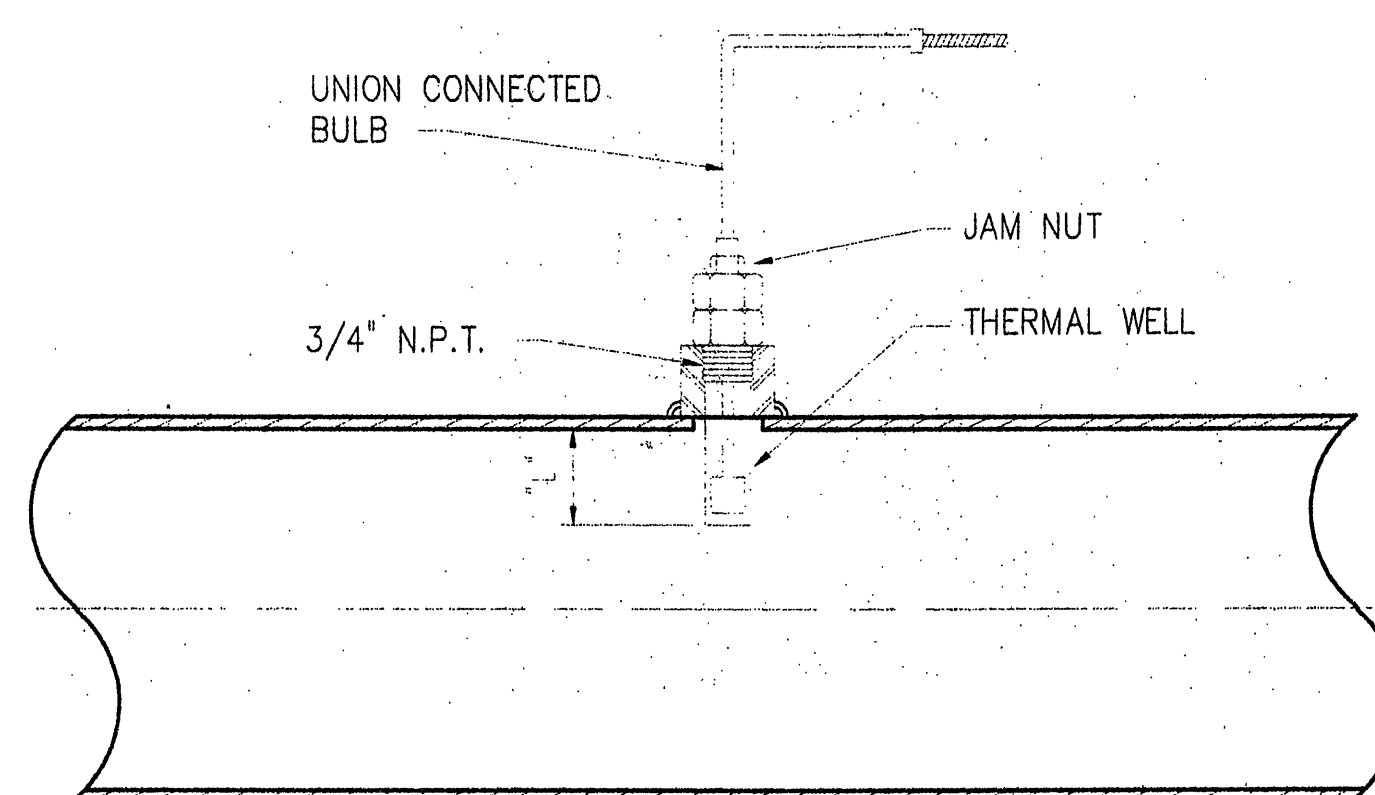


TYPICAL LIQUID LEVEL TRANSMITTER
FOR CHEMICAL BULK STORAGE TANK

DETAIL 8
NOT TO SCALE STD

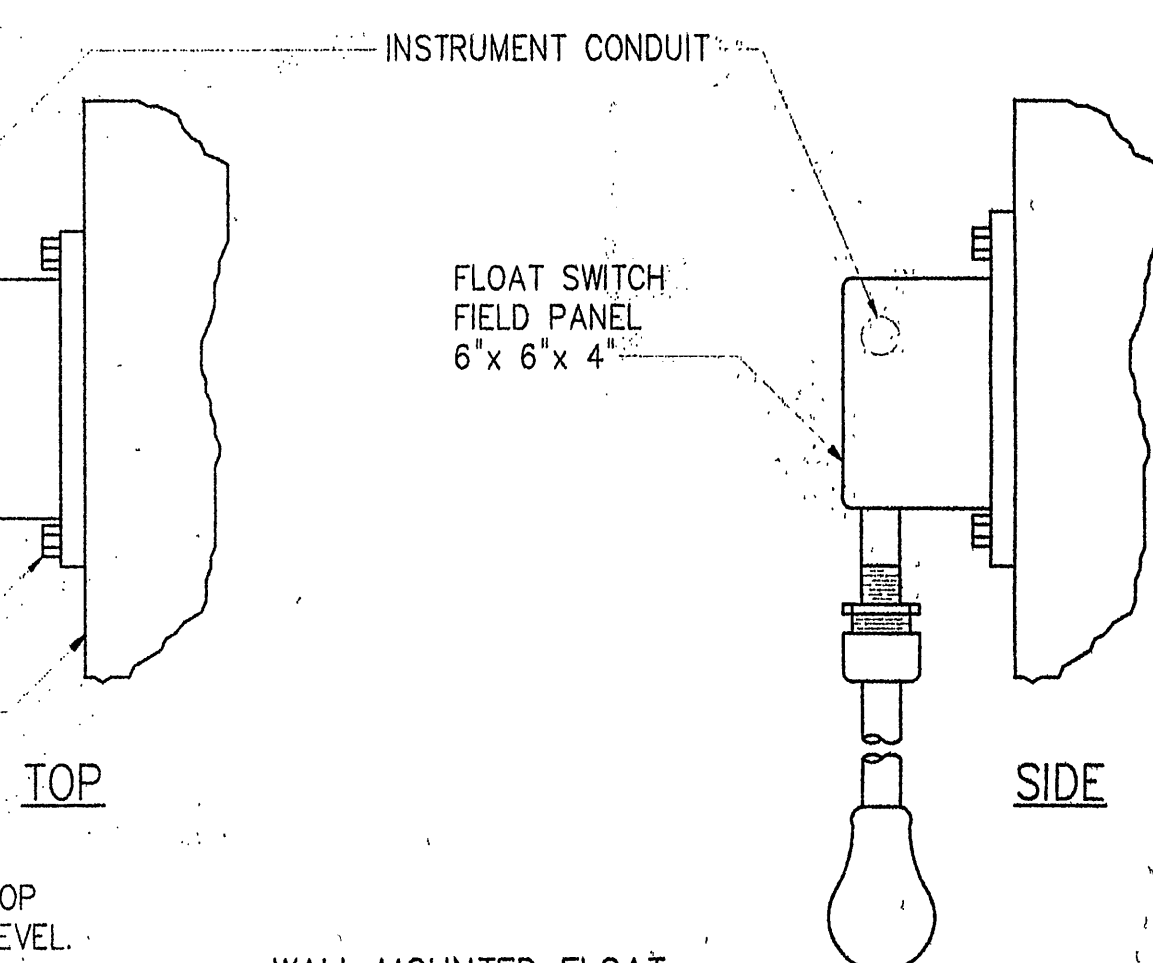
NOTES

1. TRANSMITTERS SHOWN WITHOUT INDICATORS TO SIMPLIFY DRAWING. EACH UNIT SHALL BE FURNISHED WITH INDICATORS AS SPECIFIED.
2. INSERTION LENGTH "L" SHALL BE AS FOLLOWS:
FOR PIPES UP TO 12 INCHES "L" SHALL EQUAL 1/3 THE DIAMETER OF THE PIPE.
FOR LARGER PIPES AND VESSELS, "L" SHALL BE SIZED SO THAT IT EXTENDS 4 INCHES INTO THE PROCESS.



TYPICAL TEMPERATURE SENSOR

DETAIL 7
NOT TO SCALE STD



NOTE: PROVIDE WALL HOOK AND CABLE LOOP FOR FIELD ADJUSTMENT OF FLOAT LEVEL.

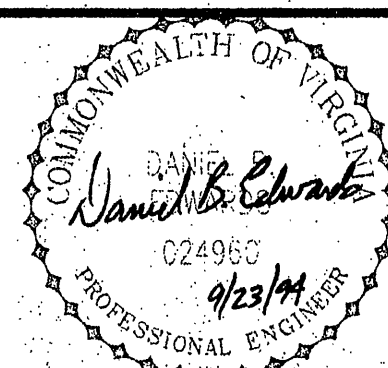
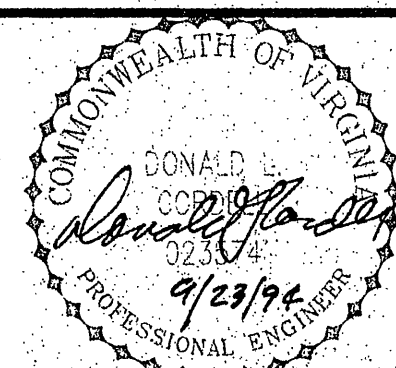
WALL MOUNTED FLOAT
SWITCH DETAIL

DETAIL 9
NOT TO SCALE STD

INSPECTOR'S AS-BUILTS 1995

WWW.ID# 8LDLUIZ

DESIGNED	DBE
DRAWN	AMD
CHECKED	DBE
PROJ. ENGR.	DBE
APPROVED	<i>[Signature]</i>
DATE	9-23-94
BY	DBE
ISSUED FOR	CONSTRUCTION
NO.	1



HAZEN AND SAWYER
Environmental Engineers & Scientists
RALEIGH, NC CHARLOTTE, NC RICHMOND, VA

ROANOKE COUNTY, VIRGINIA
UTILITY DEPARTMENT

WATER TREATMENT FACILITY

INSTRUMENTATION
INSTALLATION DETAILS

THE SCALE BAR SHOWN BELOW MEASURES ONE INCH LONG ON THE ORIGINAL DRAWING	DATE SEPT. 1994
CONTRACT NUMBER	H & S JOB NUMBER 3276
DRAWING NUMBER	1-9
SHEET	OF