

# Model AX – Special Products (1)

EDI can customize any of its anodes or design special anodes to meet the unique requirements of a particular application. These products are designated as Model AX followed by a sequence number. Contact us for additional information on any of these products.

## Special and Custom Impressed Current Anodes:

### Model    Description

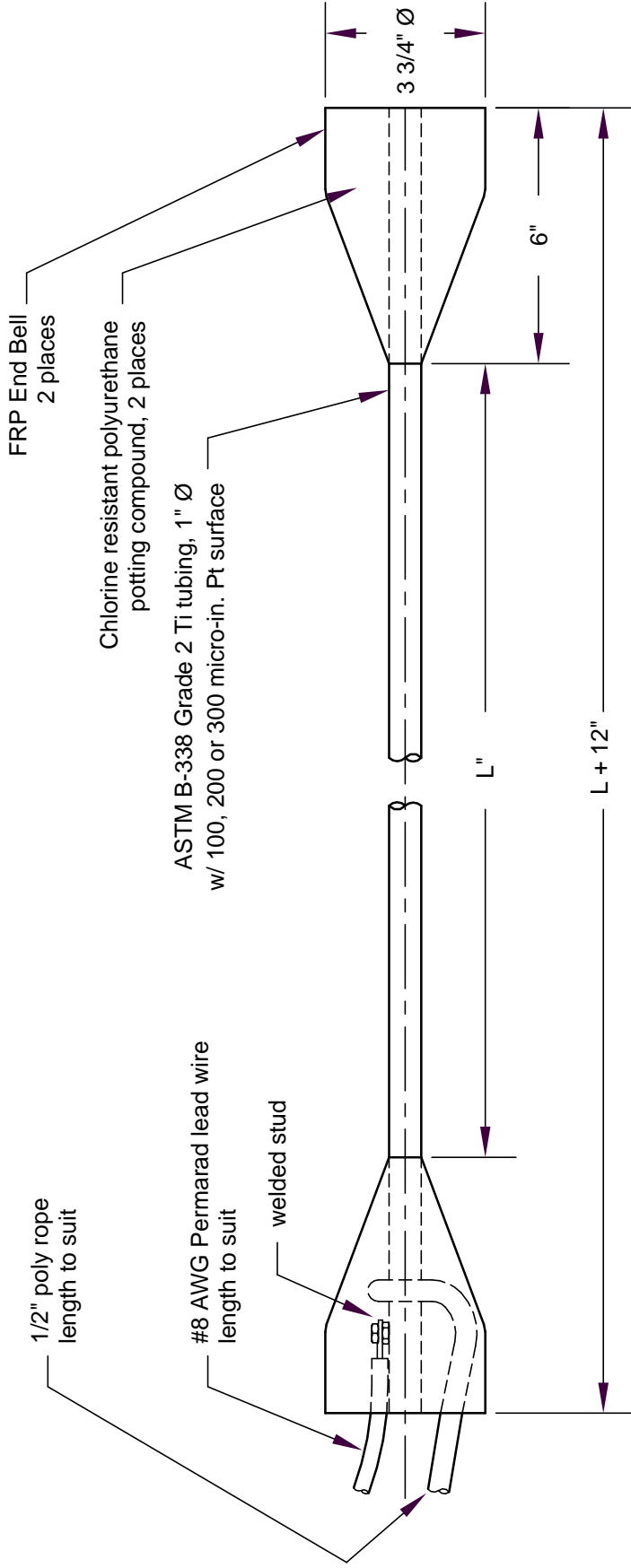
- |             |  |
|-------------|--|
| <b>AX01</b> | Model AX01 is a bell-end tubular anode designed to be suspended from an overhead structure. It is used to protect the interior of large tanks.                         |
| <b>AX02</b> | Model AX02 is flush mounted on the wall of a large diameter water tunnel. Dimensions are sized to suit the box recess.   |
| <b>AX03</b> | Model AX03 is a variant of the Model AL low profile strip anode. It uses a mounting system designed by Dennis.   |
| <b>AX04</b> | Model AX04 is a variant of the Model AR probe anode. It has a short extension with a hemispherical active surface and is used on large diameter pumps and piping.      |
| <b>AX05</b> | Model AX05 is a variant of the Model AR probe anode. It has multiple probes emanating from a single mounting point for use in impossible situations.                   |
| <b>AX06</b> | Model AX06 is a 2 inch (5 cm) dia pipe anode designed to span a condenser waterbox.  |
| <b>AX07</b> | Model AX07 is a variant of the Model AR probe anode. The round stainless steel mounting nipple has been replaced with a swaged steel hex nipple.                       |
| <b>AX08</b> | Model AX08 is a variant of the Model AR probe anode. The anode rod diameter has been increased to 1-¼ inches (3 cm).   |
| <b>AX09</b> | Model AX09 is a variant of the Model AR probe anode. The anode rod diameter has been increased to ¾ inches (2 cm).   |
| <b>AX10</b> | Model AX10 is a variant of the Model AR probe anode. It is attached to a small constant current rectifier (120 or 240 mA) and is used to protect heat exchanger heads. |

## electrochemical devices, inc.

**Sales office:** P.O. Box 355; Belmont, MA 02478-0003  
**Tel:** 617-484-9085    **Fax:** 617-484-3923  
**Main office:** P.O. Box 31; Albion, RI 02802-0031  
**Tel:** 401-333-6112    **Fax:** 401-333-9724

*A Series  
Impressed  
Current Anodes*





©EDI, 2002



electrochemical devices, inc.  
PO Box 31, Albion, RI 02802 401-333-6112

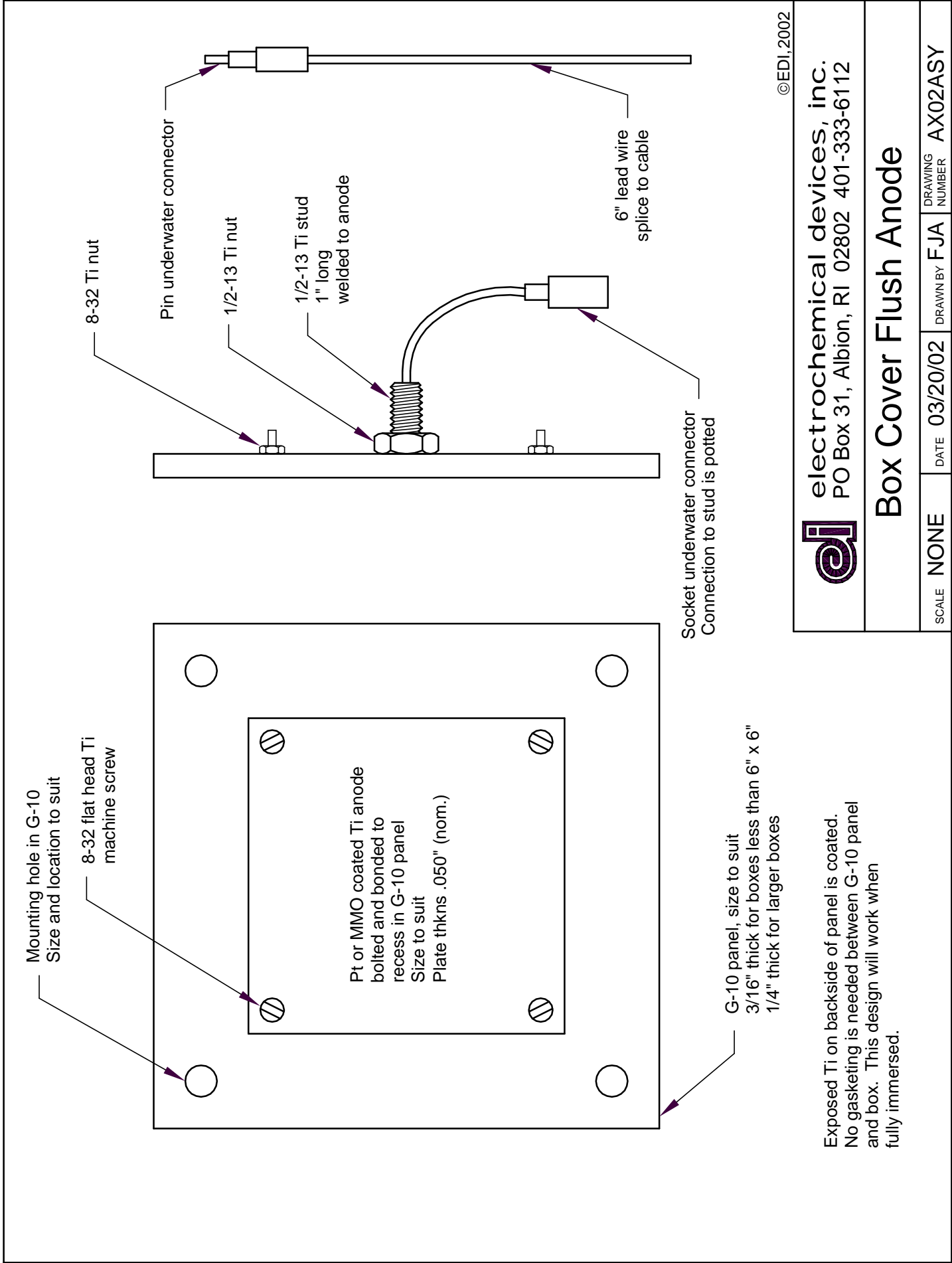
# Bell-end Tubular Anode

SCALE 1/4

DATE 03/26/02

DRAWN BY FJA

DRAWING NUMBER AX01ASY



Mounting hole in G-10  
Size and location to suit

8-32 flat head Ti  
machine screw

Pt or MMO coated Ti anode  
bolted and bonded to  
recess in G-10 panel  
Size to suit  
Plate thkns .050" (nom.)

G-10 panel, size to suit  
3/16" thick for boxes less than 6" x 6"  
1/4" thick for larger boxes

Exposed Ti on backside of panel is coated.  
No gasketing is needed between G-10 panel  
and box. This design will work when  
fully immersed.

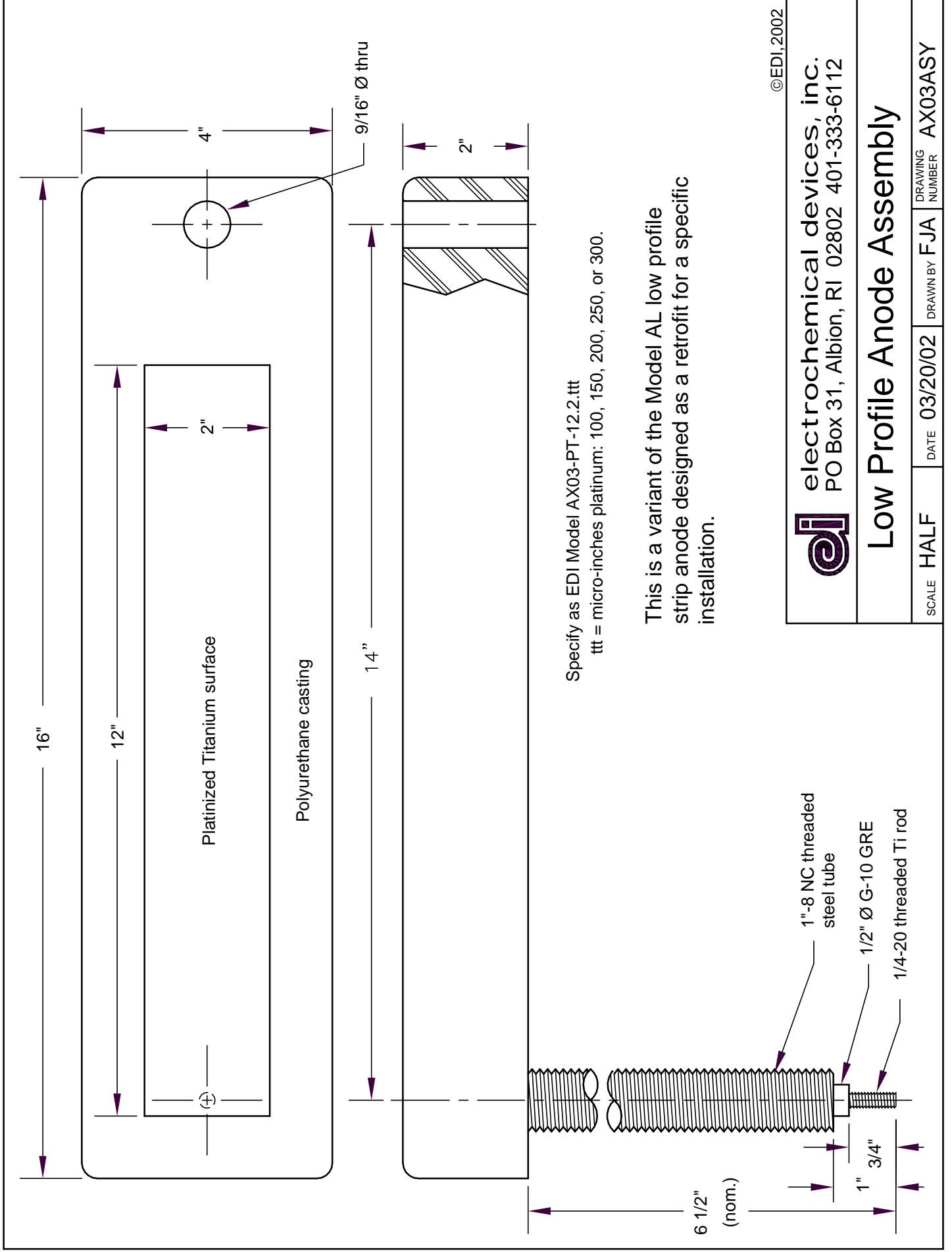
© EDI, 2002



electrochemical devices, inc.  
PO Box 31, Albion, RI 02802 401-333-6112

# Box Cover Flush Anode

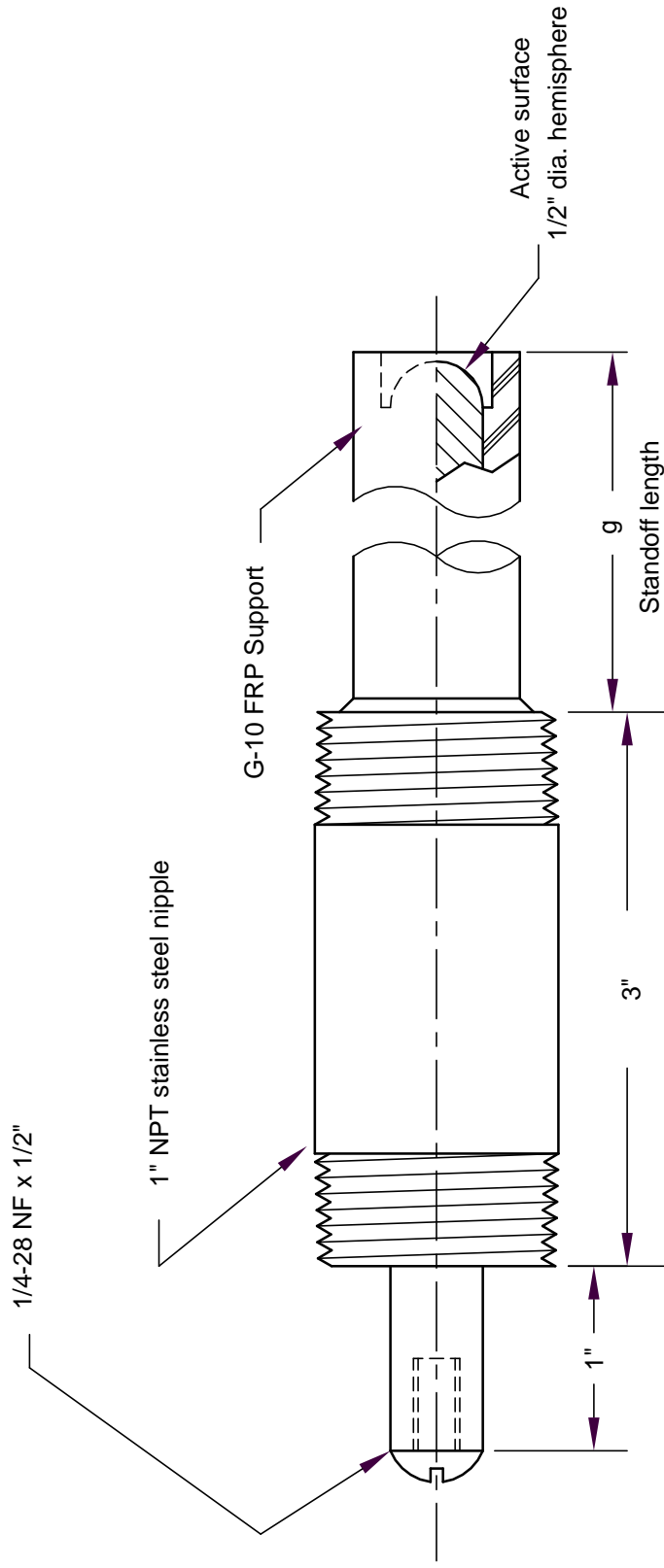
SCALE	NONE	DATE	03/20/02	DRAWN BY	FJA	DRAWING NUMBER	AX02ASY
-------	------	------	----------	----------	-----	----------------	---------



electrochemical devices, inc.  
 PO Box 31, Albion, RI 02802 401-333-6112

# Low Profile Anode Assembly

SCALE	HALF	DATE	03/20/02	DRAWN BY	FJA	DRAWING NUMBER	AX03ASY
-------	------	------	----------	----------	-----	----------------	---------



Model Designation

Specify as EDI Model AX04-as5-g.B.ttt where

a = active surface: M for mixed metal oxide or P for platinum

s = substrate: T for titanium or N for niobium

g = standoff length, inches: 1 to 9 in 1 inch increments

ttt = micro-inches platinum: 100, 150, 200, 250, or 300; or

electrolyte for mixed metal oxide: F, B or S for

Fresh, Brackish or Salt water

©EDI, 2002



electrochemical devices, inc.  
PO Box 31, Albion, RI 02802 401-333-6112

## Button Head Anode

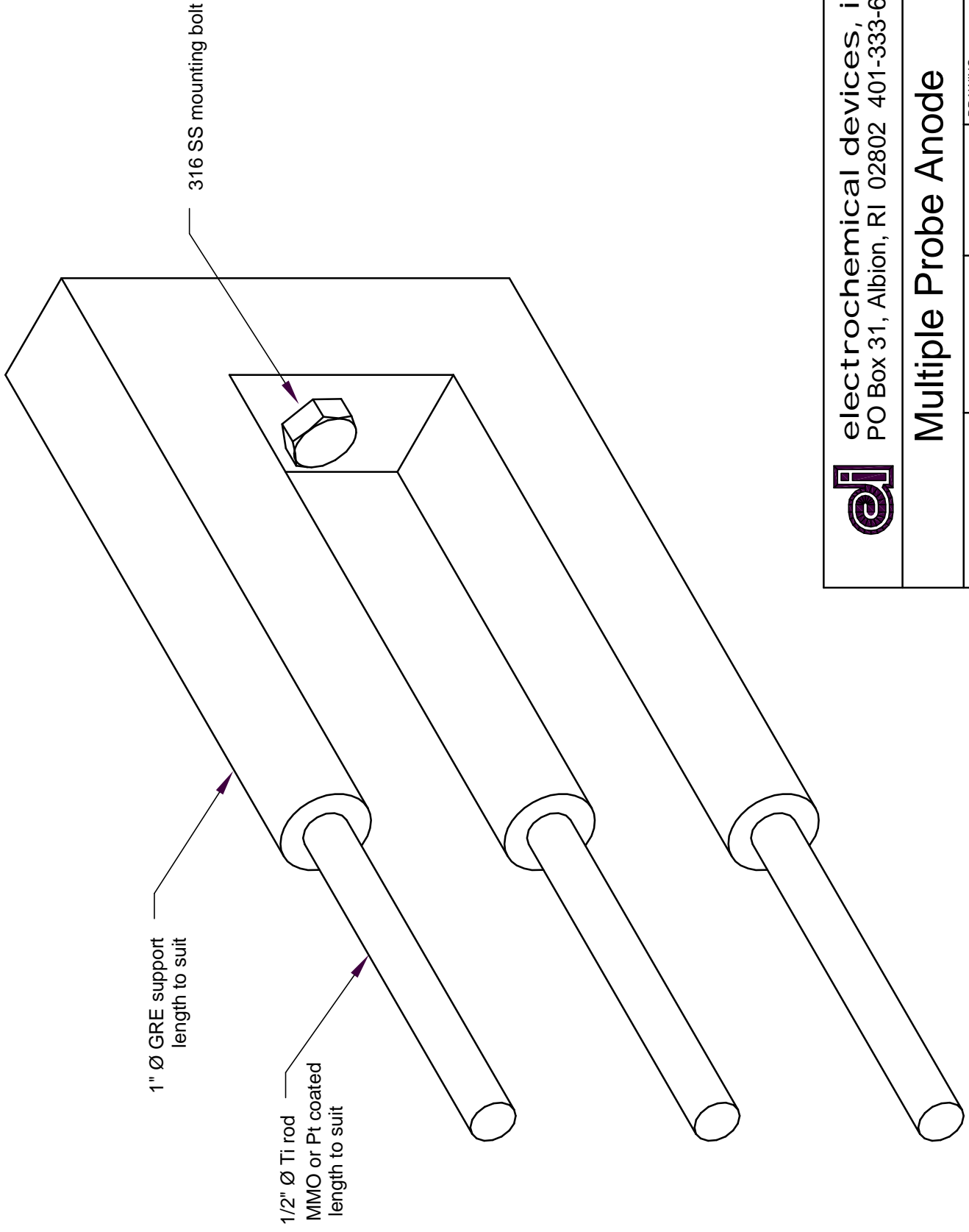
SCALE FULL

DATE 03/20/02

DRAWN BY FJA

DRAWING NUMBER

AX04ASY



©EDI, 2002



electrochemical devices, inc.  
PO Box 31, Albion, RI 02802 401-333-6112

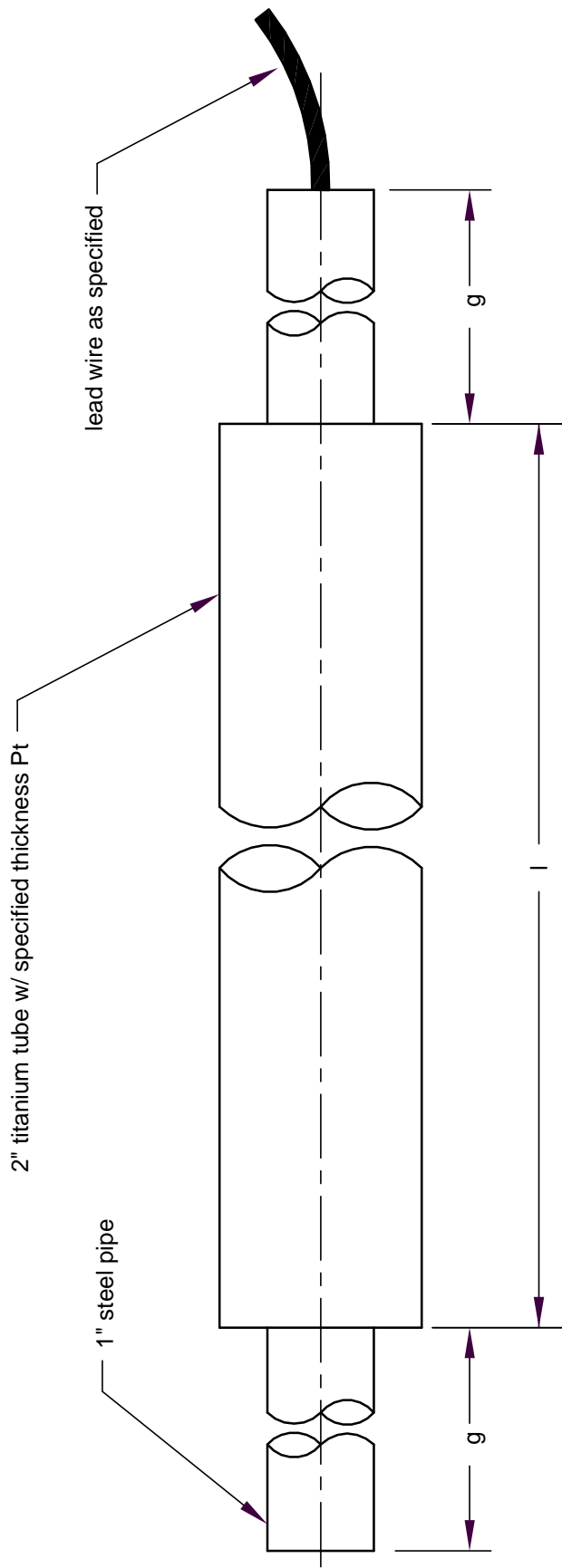
## Multiple Probe Anode

SCALE 0.8:1

DATE 03/20/02

DRAWN BY FJA

DRAWING NUMBER AX05ASY



**Model Designation**

Specify as EDI Model AX06-PT2-g.l.ttt where  
 g = standoff length, inches, in 1 inch increments  
 l = active length, inches, in 1 inch increments  
 ttt = micro-inches platinum: 100, 150, 200, 250, 300

©EDI, 2000



electrochemical devices, inc.  
 PO Box 31, Albion, RI 02802 401-333-6112

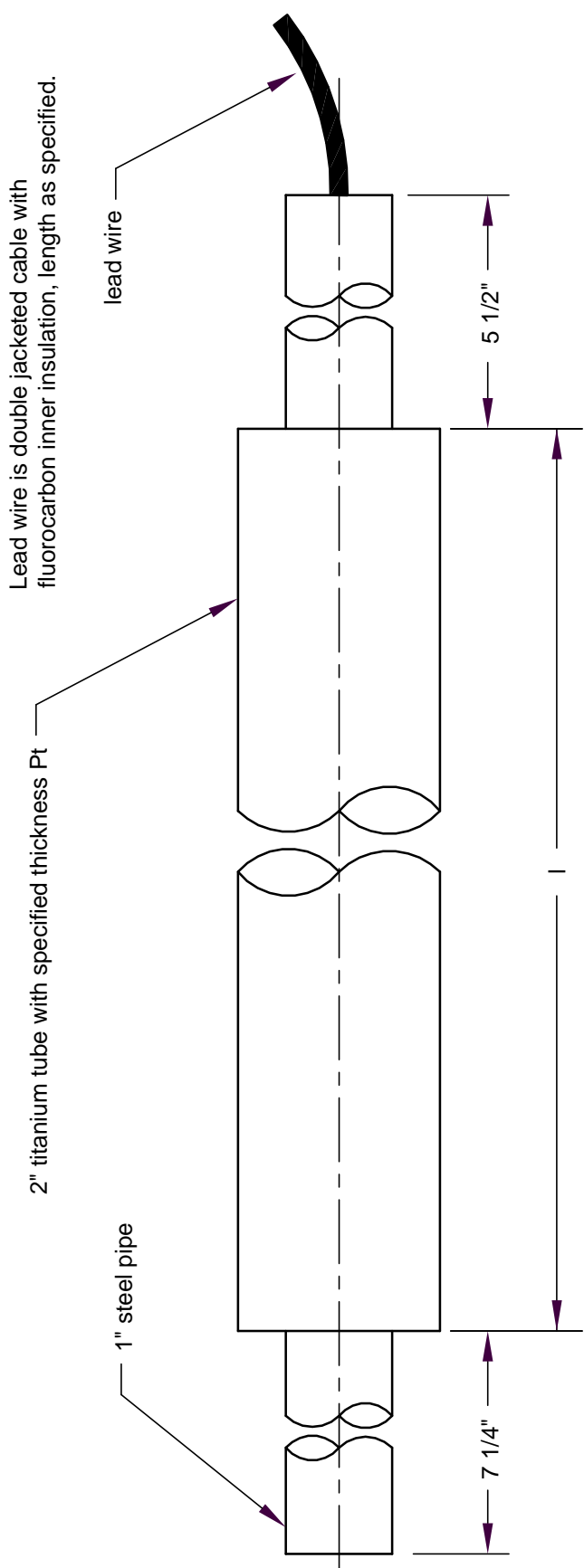
**Pipe-type Anode**

SCALE HALF

DATE 03/26/02

DRAWN BY FJA

DRAWING NUMBER AX06ASY




**Model Designation**

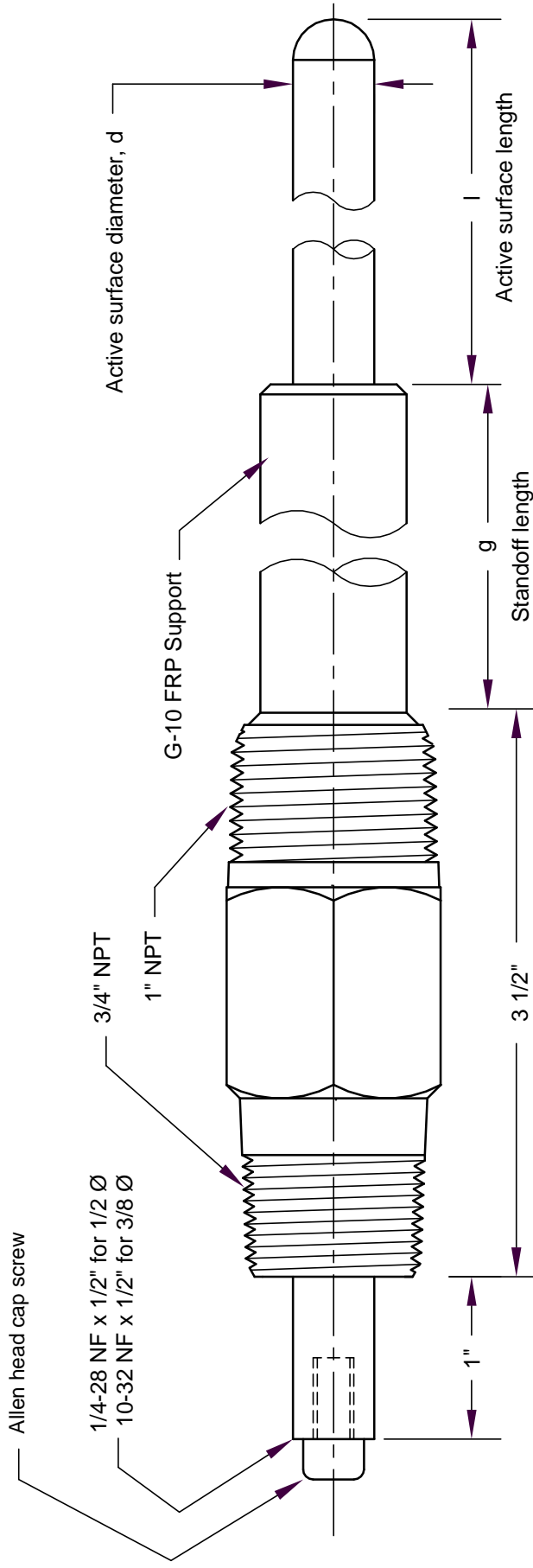
Specify as EDI Model AX06A-PT2-ttt where  
 ttt = micro-inches platinum: 100, 150, 200, 250, 300.

**Style A: I = 78" (Brayton Point Code T-040091)**  
**Style B: I = 84" (Brayton Point Code T-040092)**

Custom design for U.S. Generating Brayton Point plant.

©EDI, 2000

 electrochemical devices, inc. PO Box 31, Albion, RI 02802 401-333-6112		SCALE	DATE	DRAWN BY	DRAWING NUMBER
		HALF	03/26/02	FJA	AX06AASY
<h2>Pipe-type Anode</h2>					



**Model Designation**  
 Specify as EDI Model AX07-asd-g.l.ttt where  
 a = active surface: M for mixed metal oxide or P for platinum  
 s = substrate: T for titanium or N for niobium  
 d = rod diameter, inches: .375, 5 for .50  
 g = standoff length, inches: 1 to 9 in 1 inch increments  
 l = active length, inches: 1 to 9 in 1 inch increments  
 ttt = micro-inches platinum: 100, 150, 200, 250, or 300; or  
 electrolyte for mixed metal oxide: F, B or S for  
 Fresh, Brackish or Salt water

Note: A resilient mount is used between anode rod and support to minimize fatigue loading on anode rod.

©EDI, 2002

**edi** electrochemical devices, inc.  
 PO Box 31, Albion, RI 02802 401-333-6112

## Probe Anode - Hex Fitting

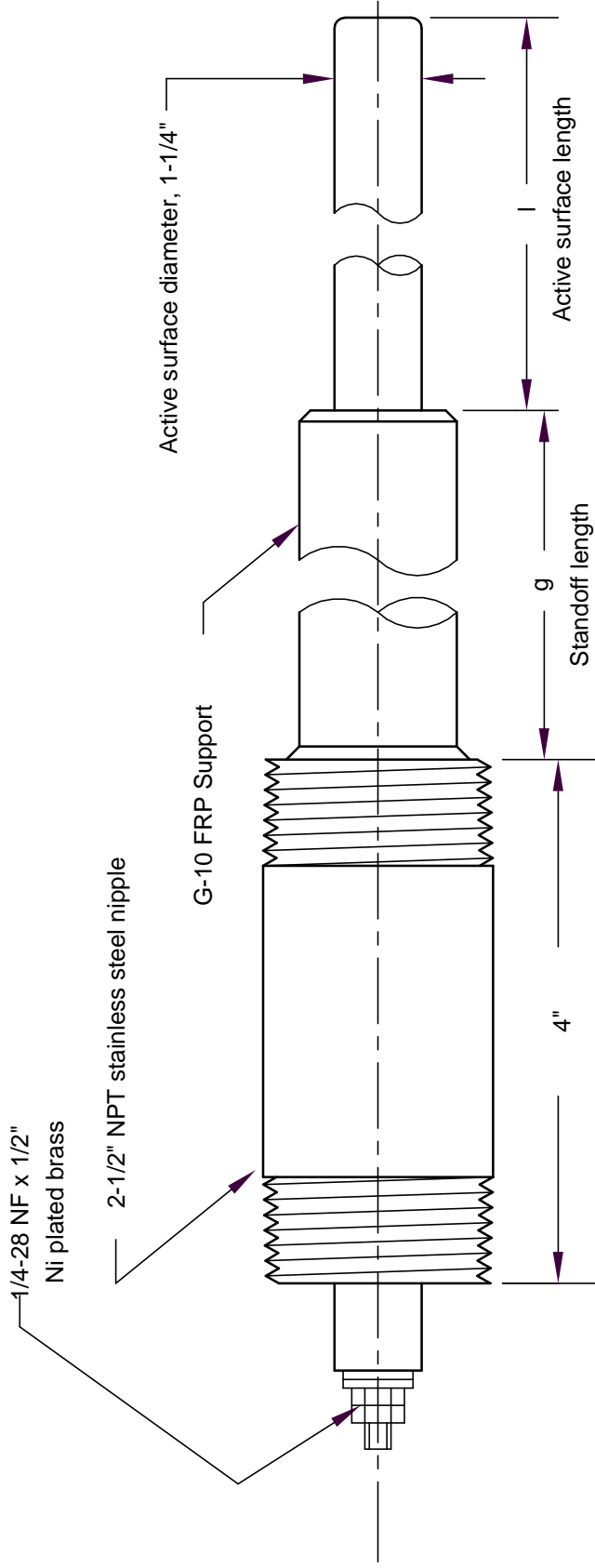
SCALE FULL

DATE 03/20/02

DRAWN BY FJA

DRAWING NUMBER

AX07ASY



**Model Designation**

Specify as EDI Model AX14-as-g.l.ttt where

a = active surface: M for mixed metal oxide or P for platinum

s = substrate: T for titanium or N for niobium

g = standoff length, inches

l = active length, inches

ttt = micro-inches platinum: 100, 150, 200, 250, or 300; or

electrolyte for mixed metal oxide: F, B or S for

Fresh, Brackish or Salt water

Note: A resilient mount is used between anode rod and support to minimize fatigue loading on anode rod.

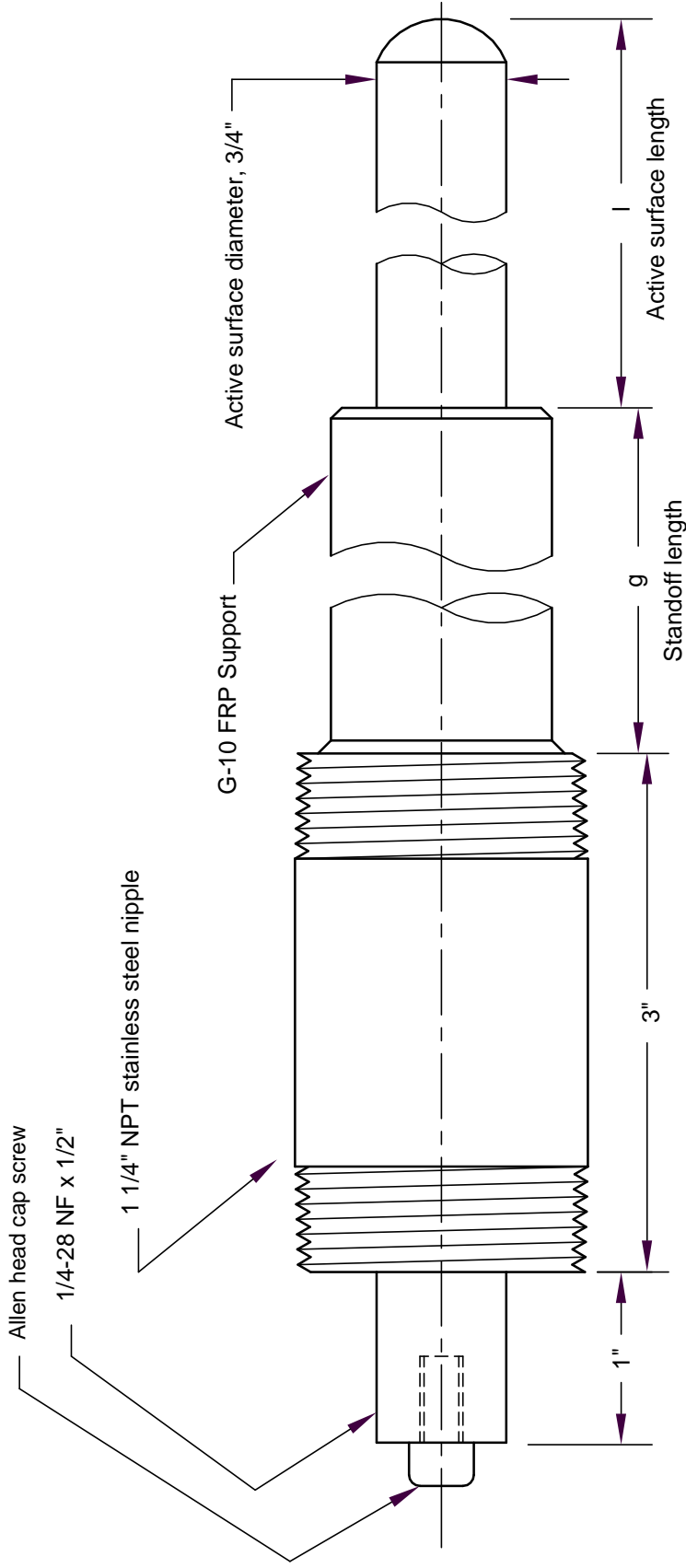
©EDI, 2002



electrochemical devices, inc.  
PO Box 31, Albion, RI 02802 401-333-6112

**Probe Anode - 1 1/4" Rod**

SCALE	NONE	DATE	03/26/02	DRAWN BY	FJA	DRAWING NUMBER	AX08ASY
-------	------	------	----------	----------	-----	----------------	---------



### Model Designation

Specify as EDI Model AX09-as7-g.l.ttt where

a = active surface: M for mixed metal oxide or P for platinum

s = substrate: T for titanium or N for niobium

g = standoff length, inches: 1 to 9 in 1 inch increments

l = active length, inches: 1 to 9 in 1 inch increments

ttt = micro-inches platinum: 100, 150, 200, 250, or 300; or

electrolyte for mixed metal oxide: F, B or S for

Fresh, Brackish or Salt water

Note: A resilient mount is used between anode rod and support to minimize fatigue loading on anode rod.

©EDI, 2002



electrochemical devices, inc.  
PO Box 31, Albion, RI 02802 401-333-6112

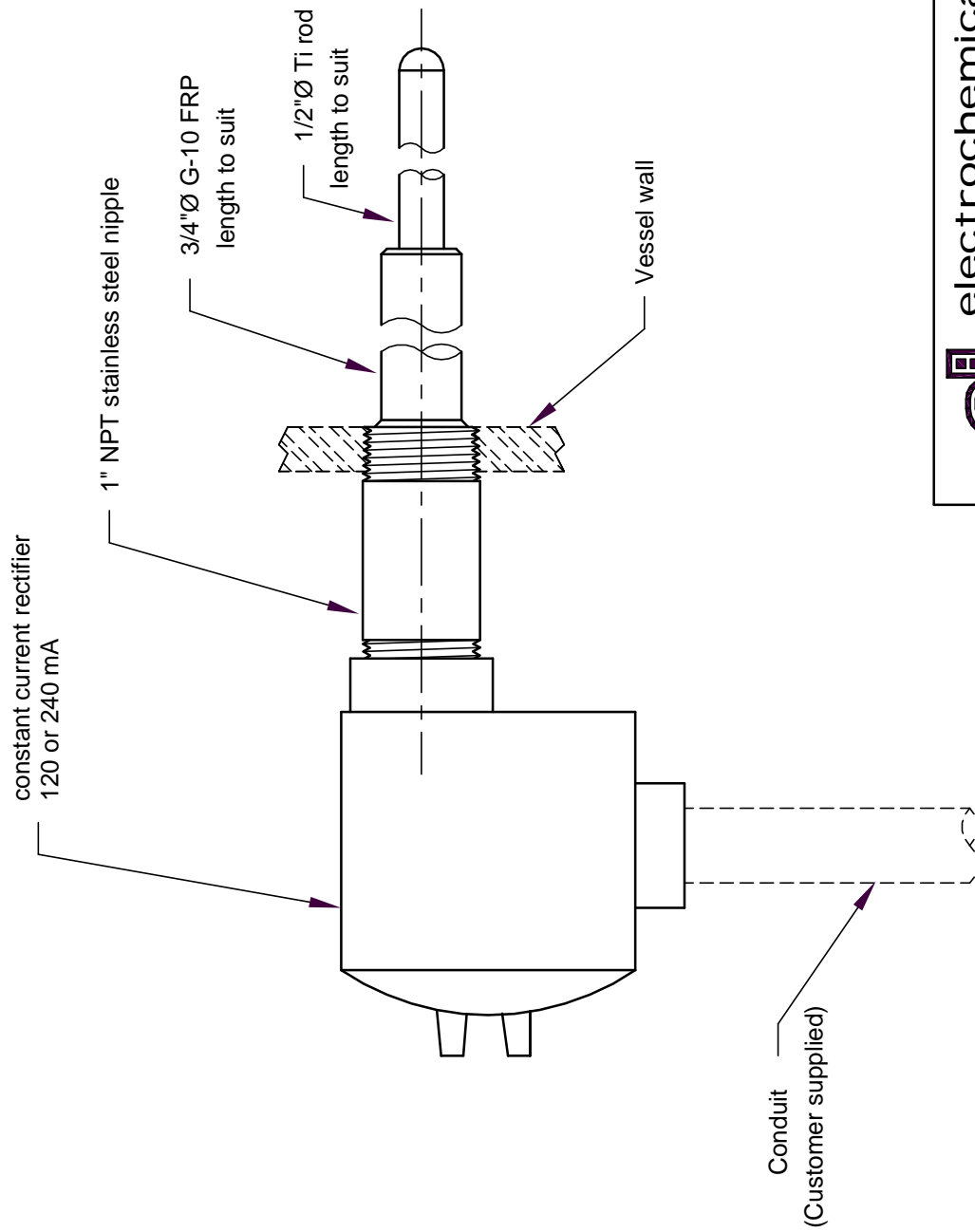
## Probe Anode - 3/4" Rod

SCALE FULL

DATE 03/20/02

DRAWN BY FJA

DRAWING NUMBER AX09ASY



©EDI, 2002

**edi** electrochemical devices, inc.  
 PO Box 31, Albion, RI 02802 401-333-6112

## Powered Anode

SCALE HALF

DATE 03/20/02

DRAWN BY FJA

DRAWING NUMBER AX10ASY