

| FED. ROAD DIST. NO. | STATE | FED. AID PROJ. NO. | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
|---------------------|-------|--------------------|-------------|-----------|--------------|
| HAWAII              | HAW.  | STP-0300(66)       | 1998        |           |              |

### GENERAL NOTES:

#### DESIGN SPECIFICATIONS:

AASHTO Standard Specifications for Structural Supports for Highway Signs, Luminaires and Traffic Signals (1994).

#### GENERAL SPECIFICATIONS:

Hawaii Standard Specifications for Road, Bridge, and Public Works Construction, 1994.

DESIGN WIND LOAD: 100 mph Wind Velocity.

#### MATERIALS:

Reinforced Concrete: Class A unless noted otherwise.  
Reinforced Steel: ASTM A615, Grade 60 unless otherwise noted, ASTM A615 GR 40 for Stirrups and Ties.

Anchor Bolts: ASTM A36 Hot Dip Galvanized

#### SOIL DESIGN VALUES:

Assumed Allowable Foundation Pressure 2000 psf  
Assumed Lateral Bearing Pressure 200 #/sf/ft

#### REINFORCEMENT:

- The minimum clear cover measured from the surface of the Concrete to the face of any Reinforcing Bar shall be as follows, except as otherwise noted.
  - Concrete exposed to Earth or Weather: Primary Reinforcement 2" and Stirrups 1 1/2"
  - Concrete cast against and permanently exposed to Earth = 3"
- Reinforcing shall be detailed in accordance with the latest editions of CRSI "Placing Reinforcing Bars" and ACI "Manual of Standard Practice" and the "Detailing Manual" unless noted otherwise.
- All dimensions relating to Reinforcing (e.g. spacing of bars) are to center of bars unless noted otherwise.

### CONSTRUCTION METHODS:

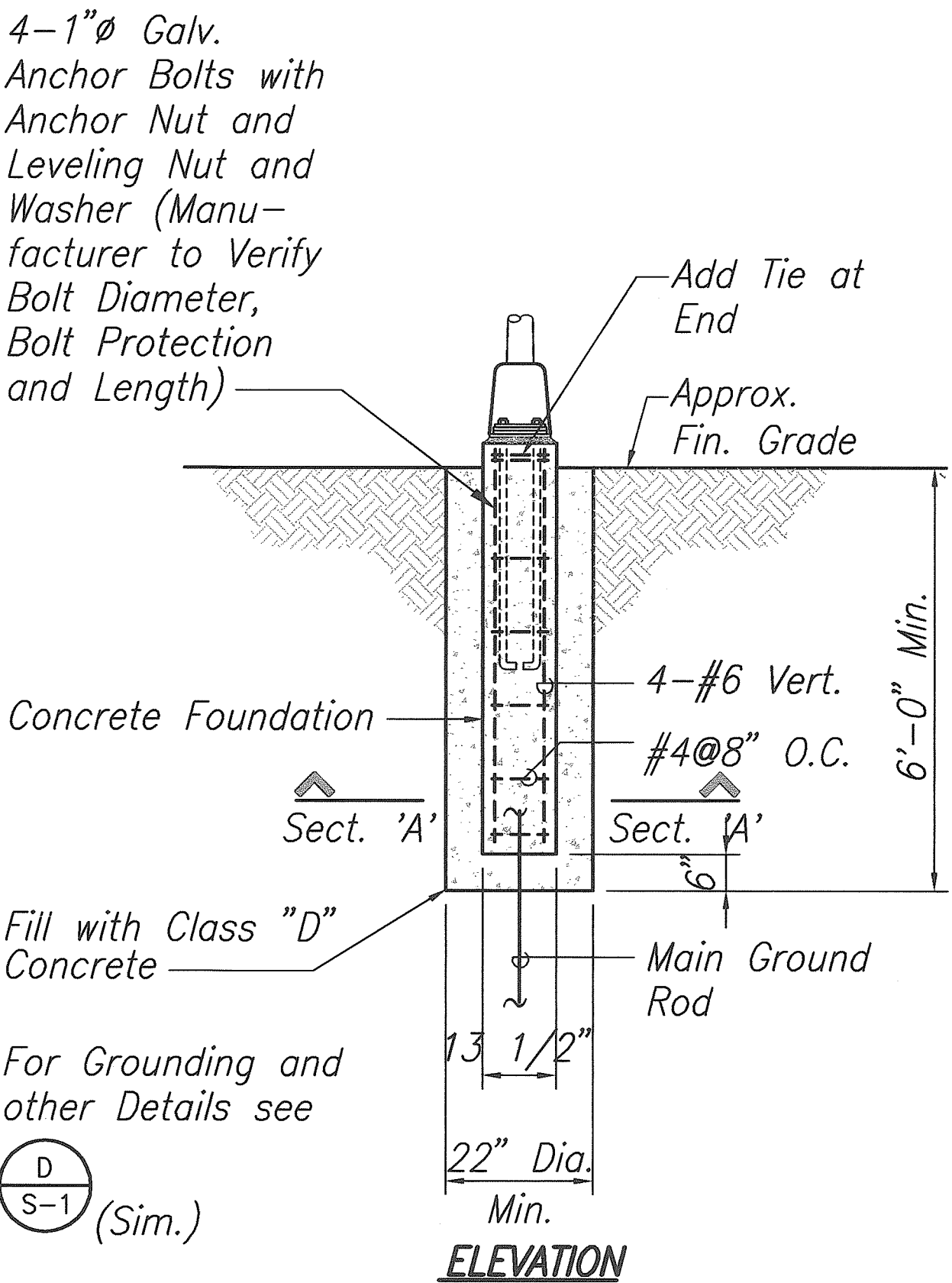
- Hawaii Standard Specifications for Road, Bridge, and Public Works Construction 1994 and Special Provisions.
- Except as otherwise noted, all vertical dimensions are measured plumb.
- Pole Foundations shall be excavated and poured neat against undisturbed ground. In case of over excavation, space between foundation and ground shall be filled with Concrete at the Contractors' expense and as directed by the Engineer. The minimum quality of the fill Concrete shall be Class D.



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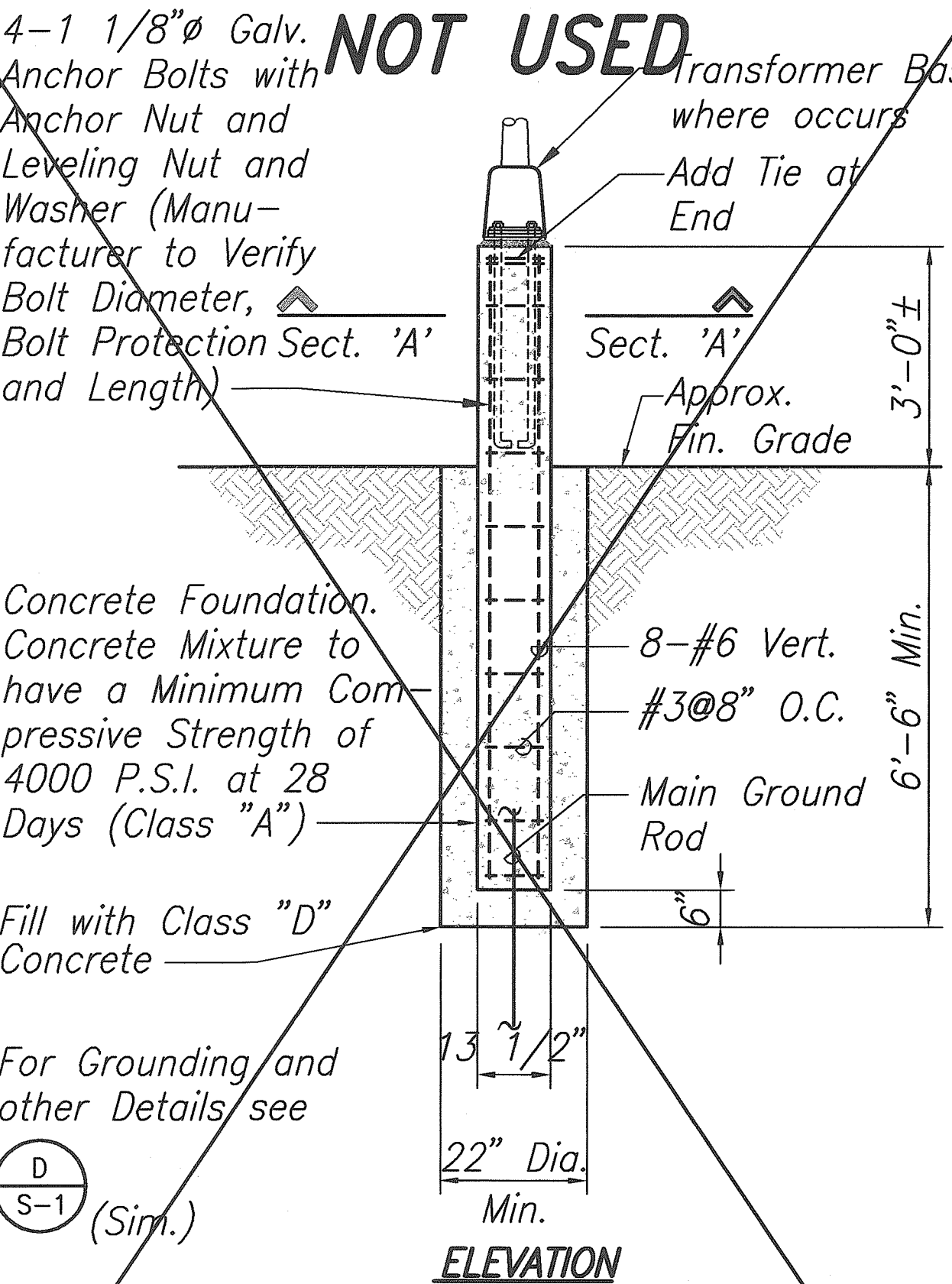
*Myron Okubo*

| DATE                                                                                                                                                                                                                                                                                                                                              | REVISION |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|
| STATE OF HAWAII<br>DEPARTMENT OF TRANSPORTATION<br>HIGHWAYS DIVISION<br><b>POLE MOUNTING DETAILS</b><br>HIGHWAY LIGHTING SAFETY IMPROVEMENTS<br>KAMEHAMEHA HIGHWAY VICINITY OF<br>LIKELIKE HIGHWAY/KANEHOE BAY DRIVE INTERSECTION<br>TO UALANI PLACE<br>PROJECT NO. STP-0300(66)<br>Scale: As Noted Date: July 9, 1999<br>SHEET No. S-1 OF SHEETS |          |

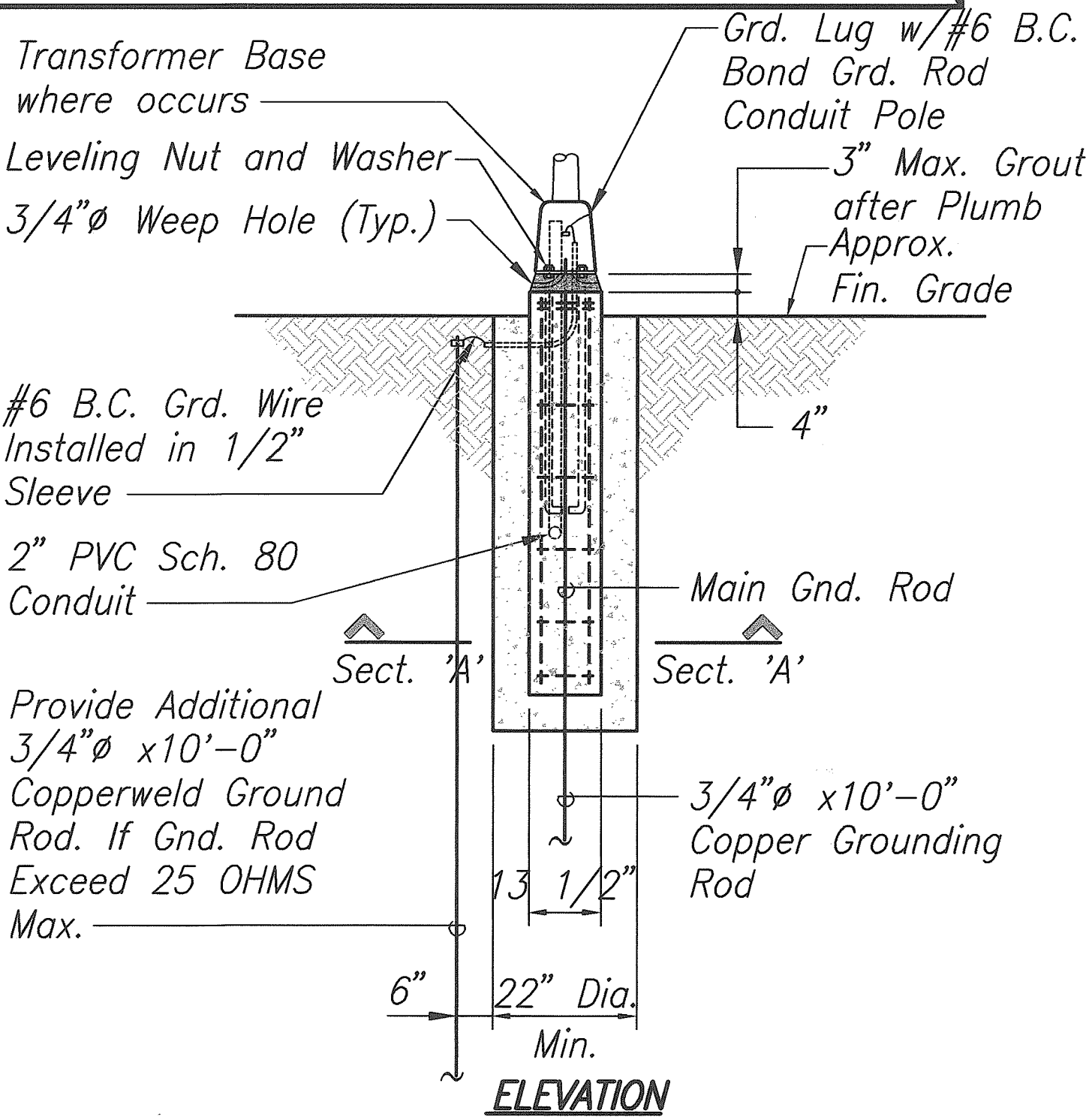


**C**  
S-1  
**CONCRETE BASE AND POLE \*  
ANCHOR DETAILS FOR SINGLE  
ARM LIGHT STANDARD**  
Scale: 1/2"=1'-0"

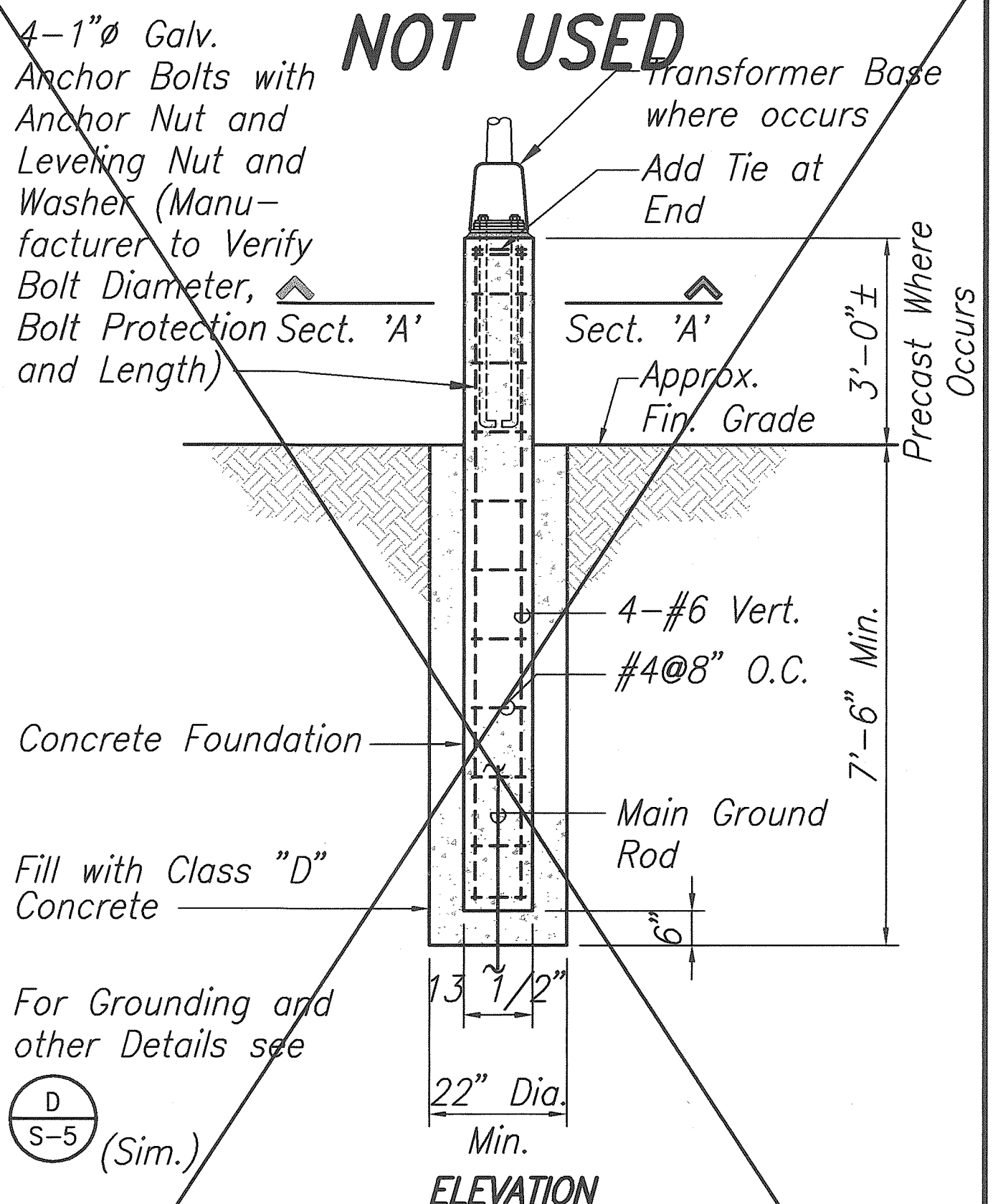
NOTE:  
Details Represent Typical Components  
with Various Mast Arm Configurations.



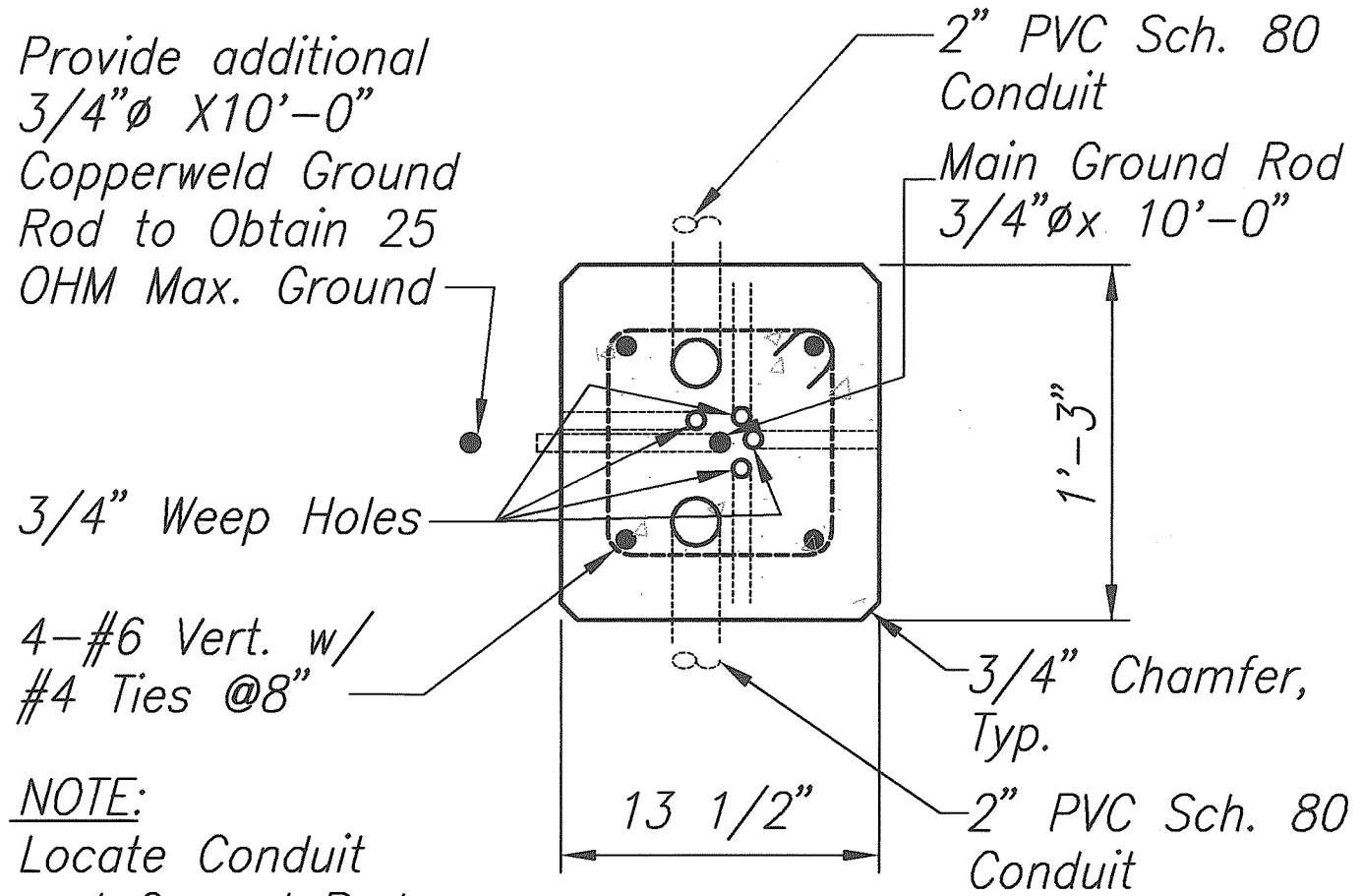
**B**  
S-1  
**CONCRETE BASE AND POLE \*  
ANCHOR DETAILS FOR SINGLE  
ARM LIGHT STANDARD**  
Scale: 1/2"=1'-0" (Pole Mounted on Pedestal)



**D**  
S-1  
**TYPICAL CONCRETE BASE AND POLE  
MOUNTING DETAIL TRANSFORMER BASE**  
Scale: 1/2"=1'-0"



**A**  
S-1  
**CONCRETE BASE AND POLE \*  
ANCHOR DETAILS FOR DOUBLE  
ARM LIGHT STANDARD**  
Scale: 1/2"=1'-0" (Pole Shown Mounted  
on Pedestal)



NOTE:  
Locate Conduit  
and Ground Rods  
to Clear Anchor  
Bolts.

\* NOTE:  
Where Pole is Located in Median,  
install Guardrail and Posts in Accordance  
with Details on Standard Plan TE-54.

|                   |      |
|-------------------|------|
| SURVEY PLOTTED BY | DATE |
| DRAWN BY          |      |
| TRACED BY         |      |
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| NO.               |      |

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"AS-BUILT"



| FED. ROAD DIST. NO. | STATE | FED. AID PROJ. NO. | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
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| HAWAII              | HAW.  | STP-0300(66)       | 1998        |           |              |

### GENERAL NOTES:

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DESIGN WIND LOAD: 100 mph Wind Velocity.

#### MATERIALS:

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Reinforced Steel: ASTM A615, Grade 60 unless otherwise noted, ASTM A615 GR 40 for Stirrups and Ties.

Anchor Bolts: ASTM A36 Hot Dip Galvanized

#### SOIL DESIGN VALUES:

Assumed Allowable Foundation Pressure 2000 psf  
Assumed Lateral Bearing Pressure 200 #/sf/ft

#### REINFORCEMENT:

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- All dimensions relating to Reinforcing (e.g. spacing of bars) are to center of bars unless noted otherwise.

### CONSTRUCTION METHODS:

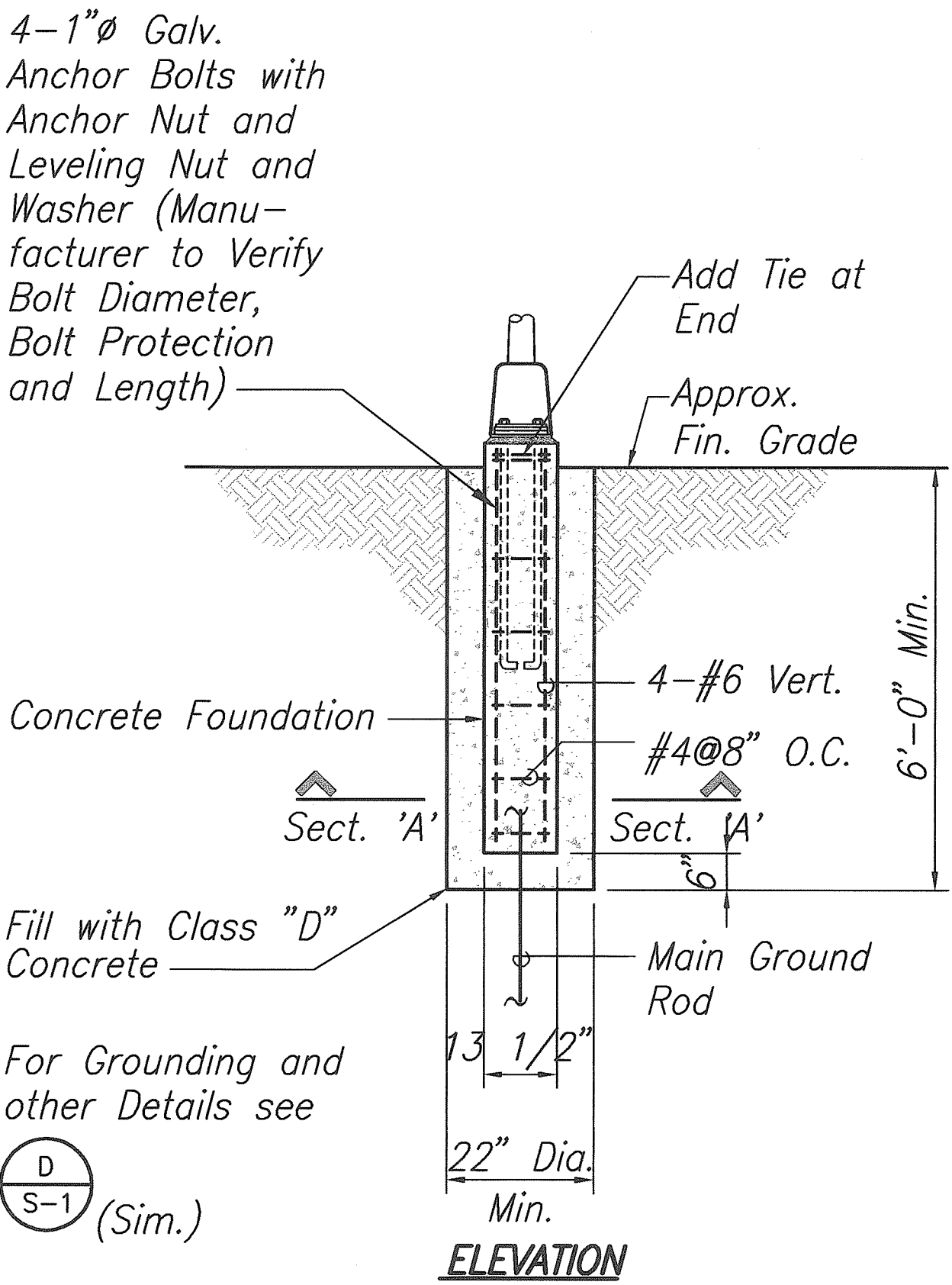
- Hawaii Standard Specifications for Road, Bridge, and Public Works Construction 1994 and Special Provisions.
- Except as otherwise noted, all vertical dimensions are measured plumb.
- Pole Foundations shall be excavated and poured neat against undisturbed ground. In case of over excavation, space between foundation and ground shall be filled with Concrete at the Contractors' expense and as directed by the Engineer. The minimum quality of the fill Concrete shall be Class D.



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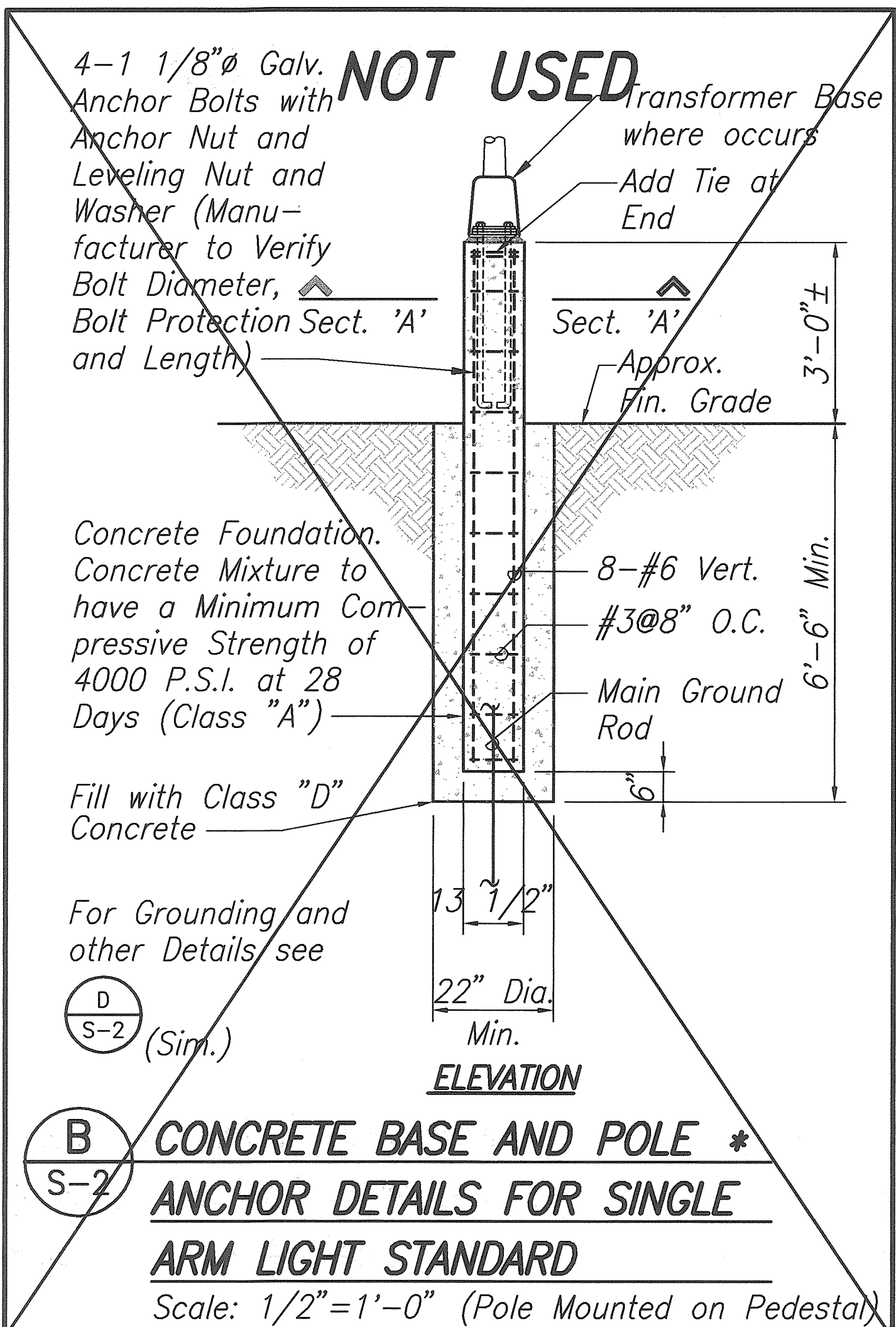
*Myron Okubo*

| DATE                                                                                                                                                                                                                                                                                                                       | REVISION |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|
| STATE OF HAWAII<br>DEPARTMENT OF TRANSPORTATION<br>HIGHWAYS DIVISION<br><b>POLE MOUNTING DETAILS</b><br>HIGHWAY LIGHTING SAFETY IMPROVEMENTS<br>KALANIANA'OLE HIGHWAY<br>VICINITY OF CASTLE JUNCTION<br>TO WAIMANALO JUNCTION<br>PROJECT NO. STP-0300(66)<br>Scale: As Noted Date: July 9, 1999<br>SHEET No. S-2 OF SHEETS |          |

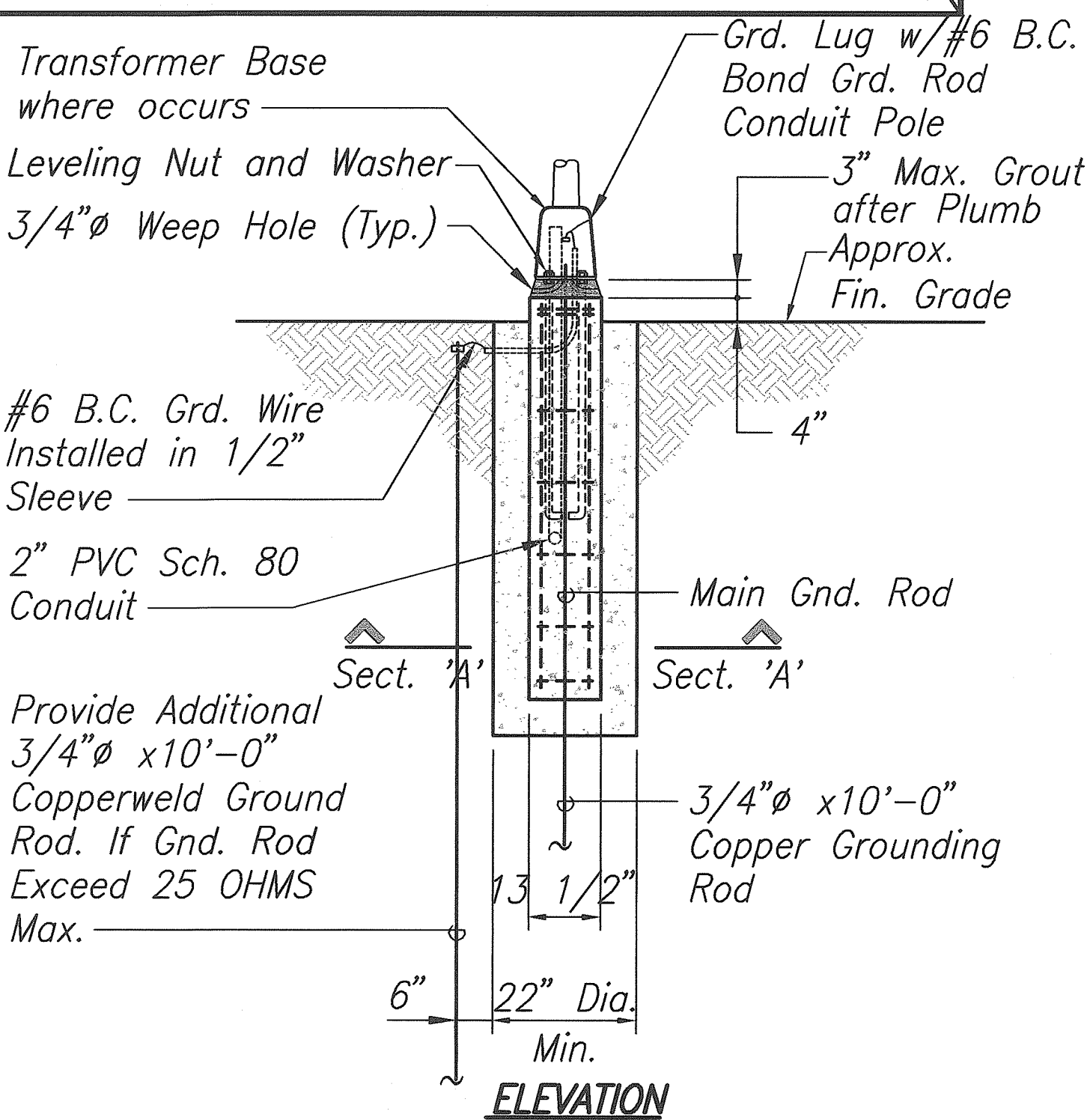


**C CONCRETE BASE AND POLE \*  
ANCHOR DETAILS FOR SINGLE  
ARM LIGHT STANDARD**  
Scale: 1/2"=1'-0"

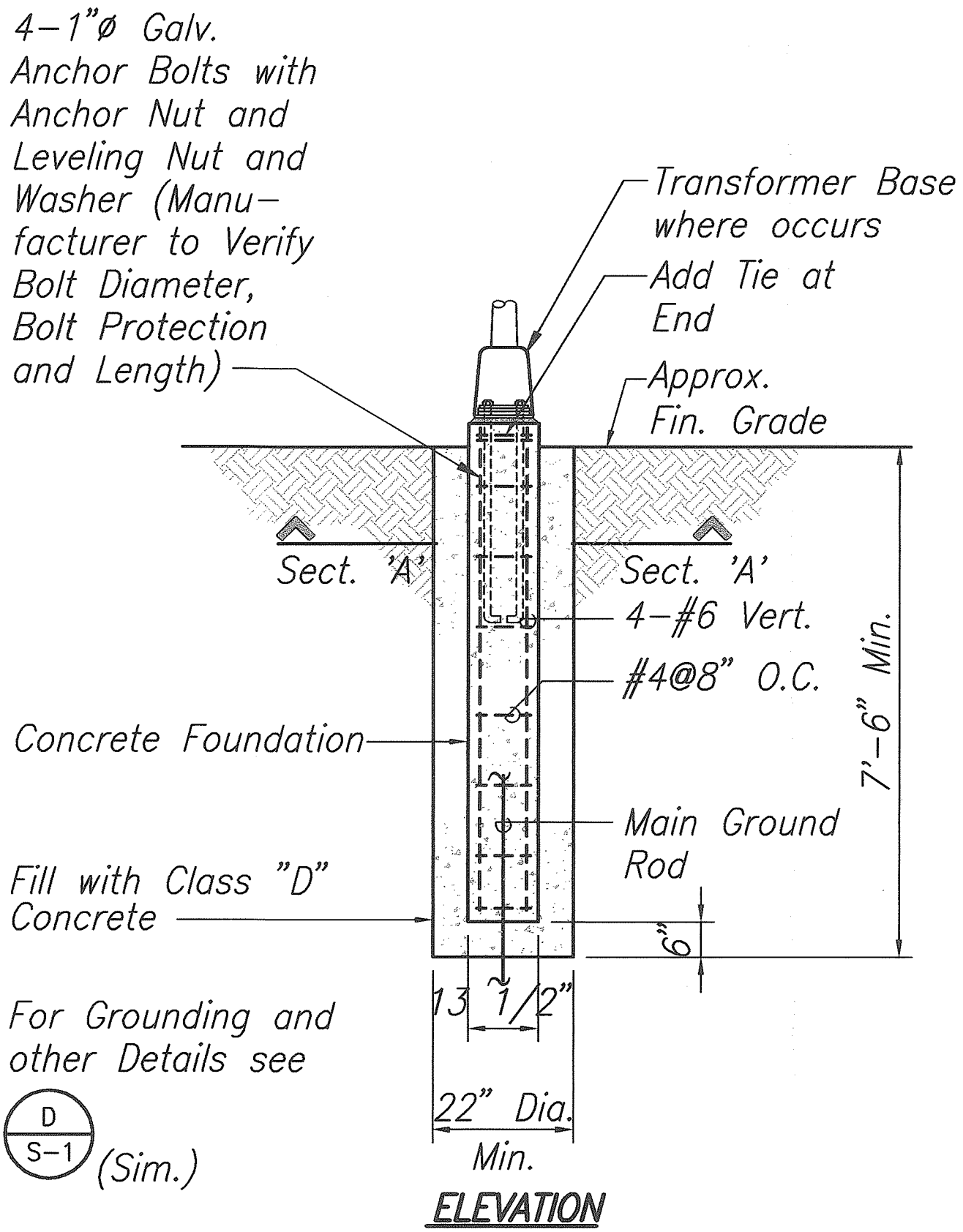
*NOTE:*  
Details Represent Typical Components  
with Various Mast Arm Configurations.



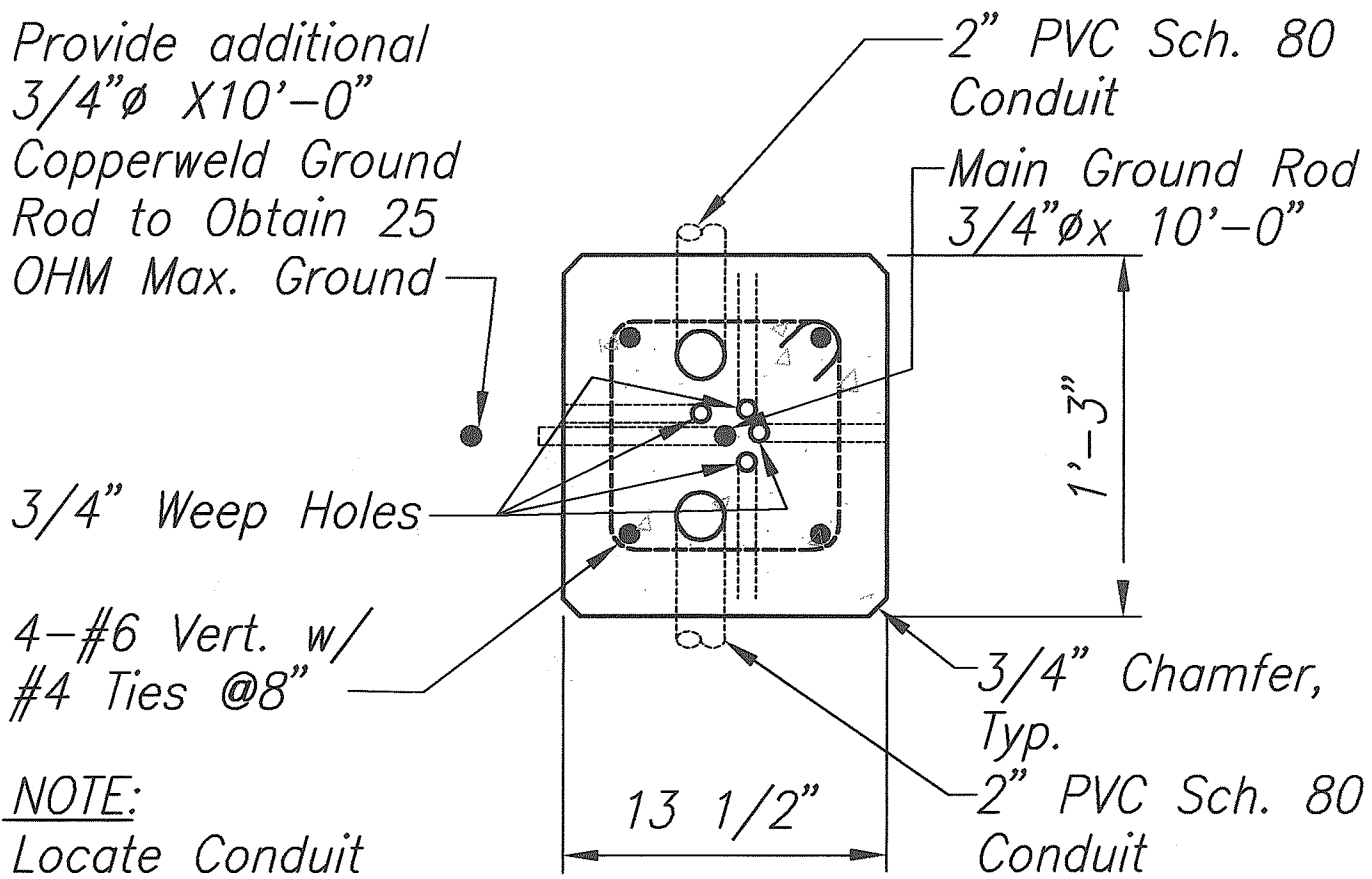
**B CONCRETE BASE AND POLE \*  
ANCHOR DETAILS FOR SINGLE  
ARM LIGHT STANDARD**  
Scale: 1/2"=1'-0" (Pole Mounted on Pedestal)



**D TYPICAL CONCRETE BASE AND POLE  
MOUNTING DETAIL TRANSFORMER BASE**  
Scale: 1/2"=1'-0"



**A CONCRETE BASE AND POLE \*  
ANCHOR DETAILS FOR DOUBLE  
ARM LIGHT STANDARD**  
Scale: 1/2"=1'-0"



*NOTE:*  
Locate Conduit  
and Ground Rods  
to Clear Anchor  
Bolts.

**SECTION 'A' - 'A'**  
Scale: 1 1/2"=1'-0"

\* *NOTE:*  
Where Pole is Located in Median,  
install Guardrail and Posts in Accordance  
with Details on Standard Plan TE-54.

|               |                   |      |
|---------------|-------------------|------|
| ORIGINAL PLAN | SURVEY PLOTTED BY | DATE |
| NOTED BY      | DRAWN BY          |      |
| DESIGNED BY   | NOTED BY          |      |
| QUANTITIES BY | DESIGNED BY       |      |
| CHECKED BY    | QUANTITIES BY     |      |

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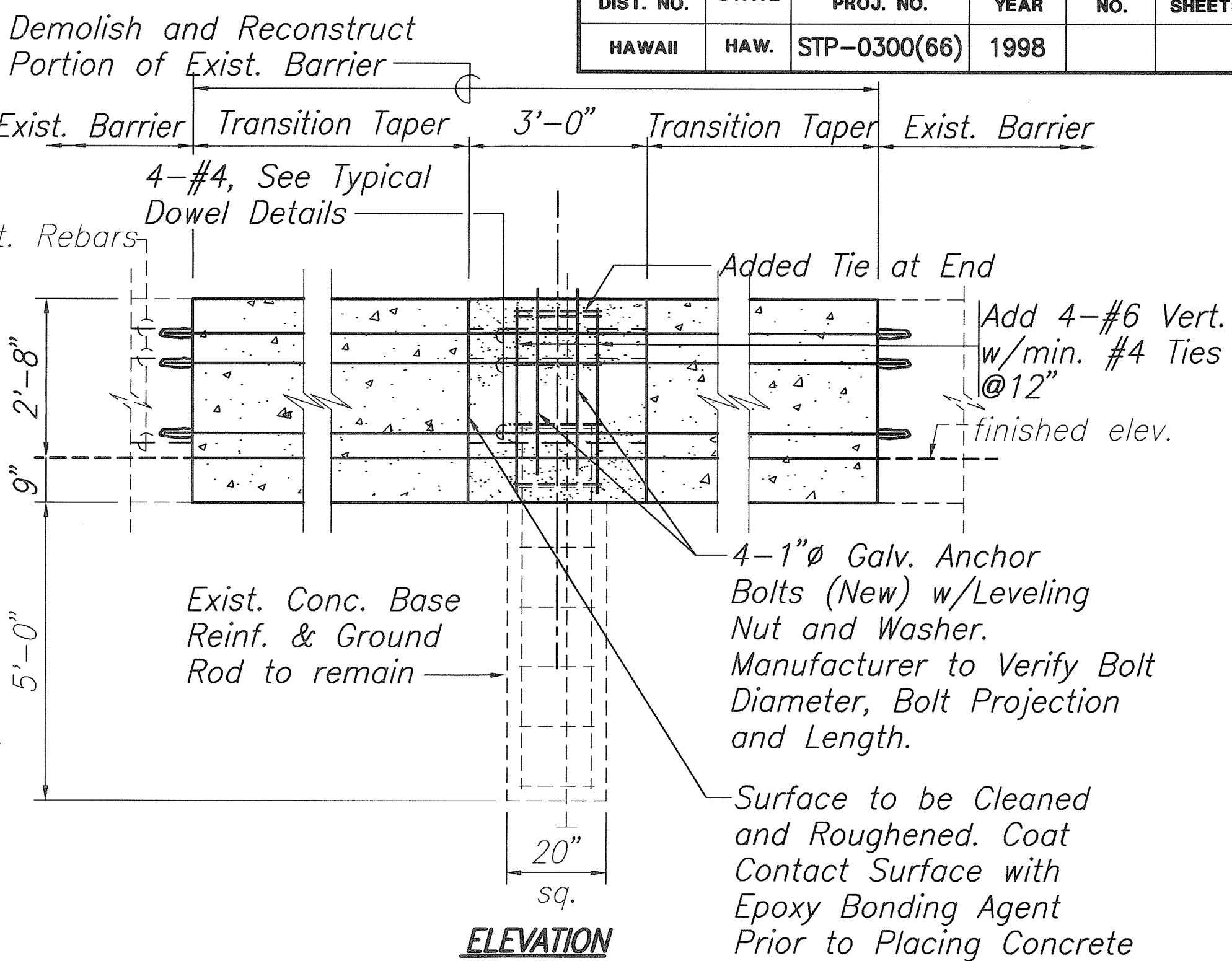
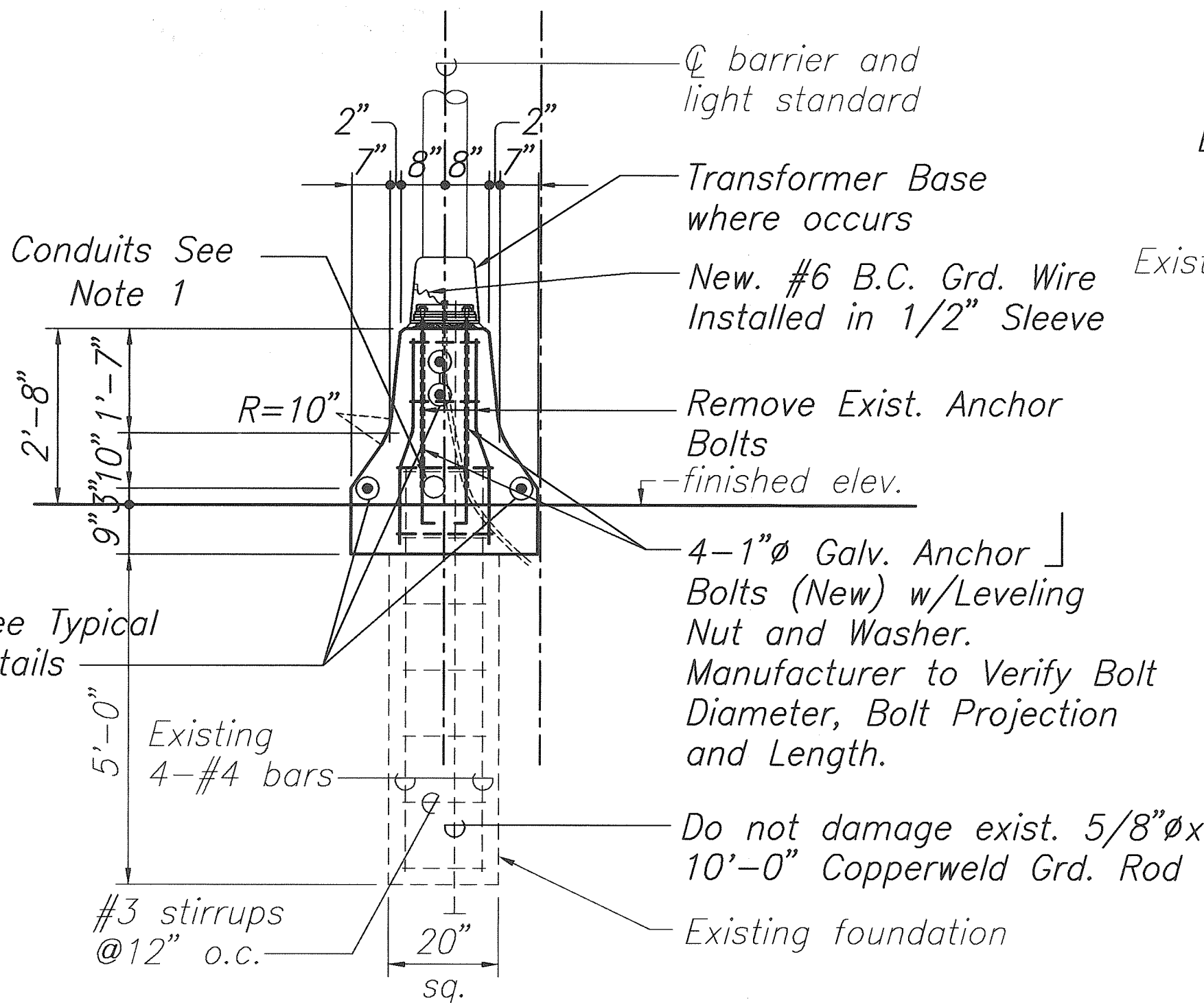
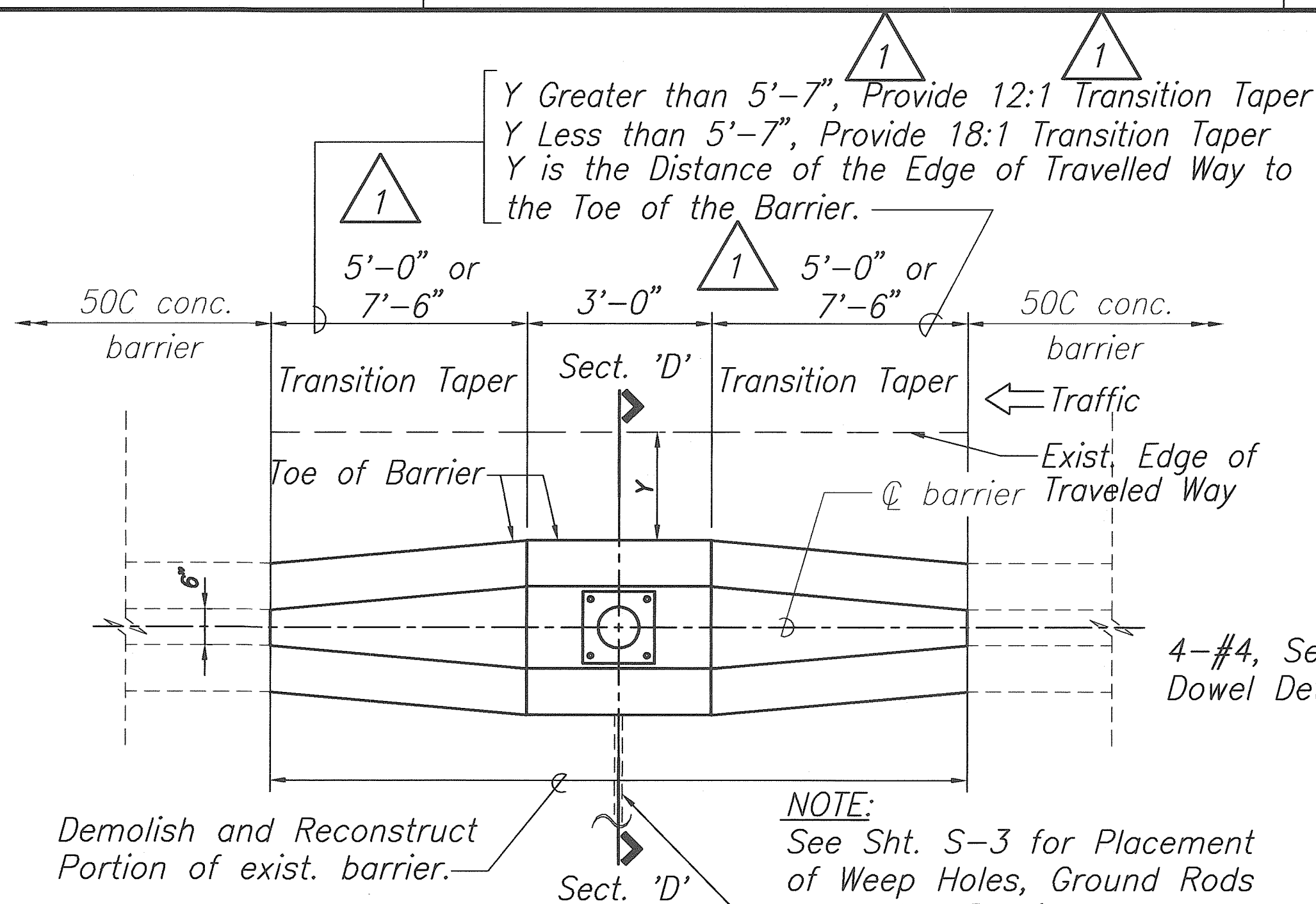
"AS-BUILT"







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| HAWAII              | HAW.  | STP-0300(66)       | 1998        |           |              |



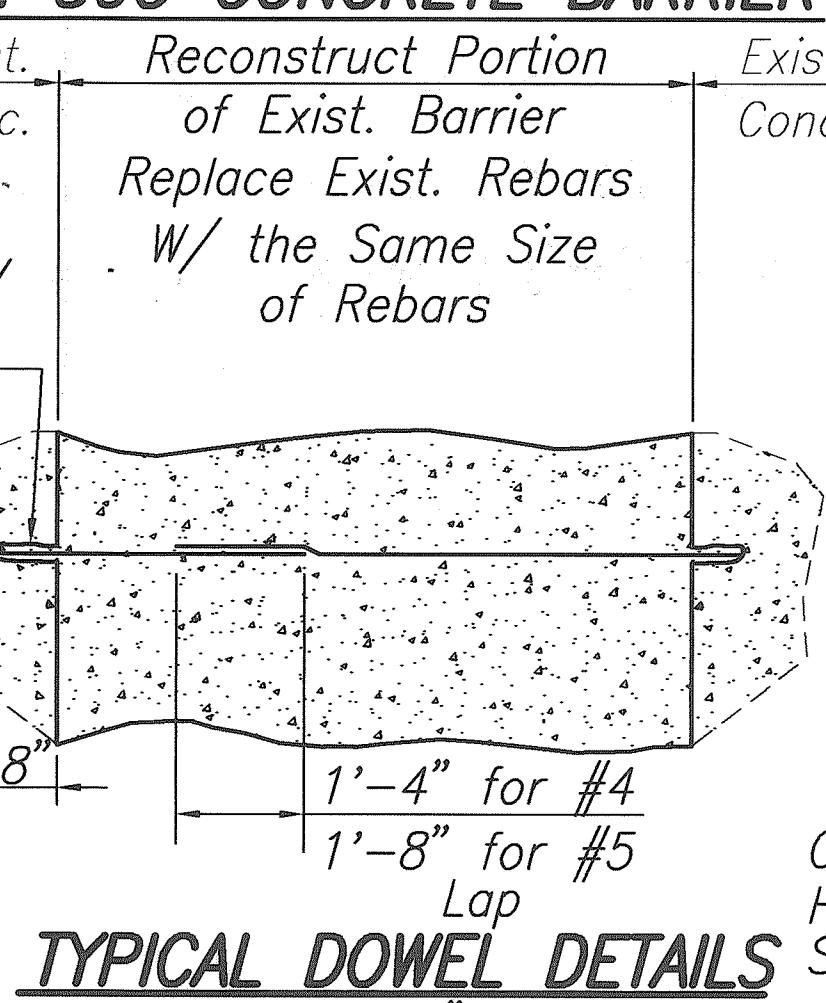
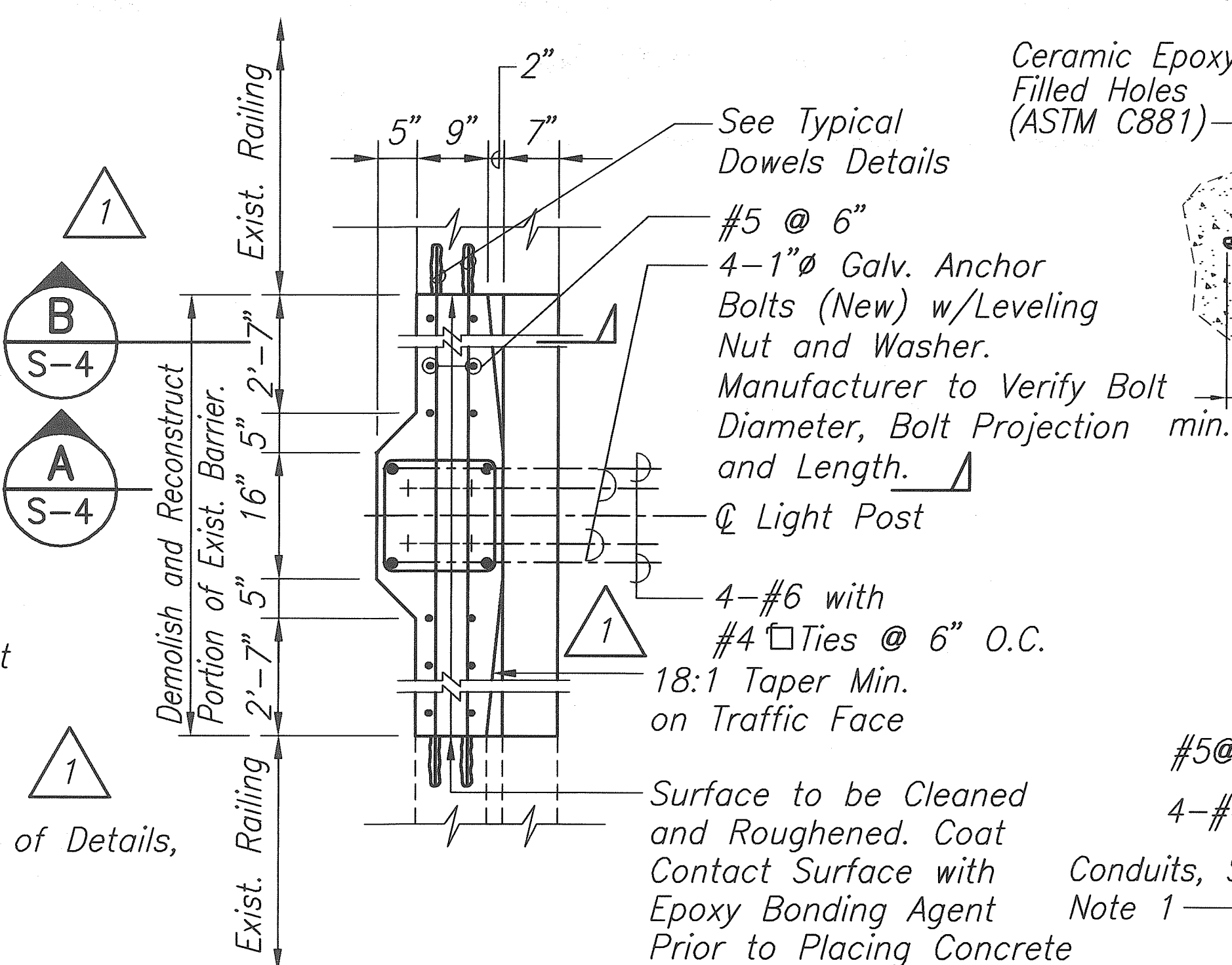
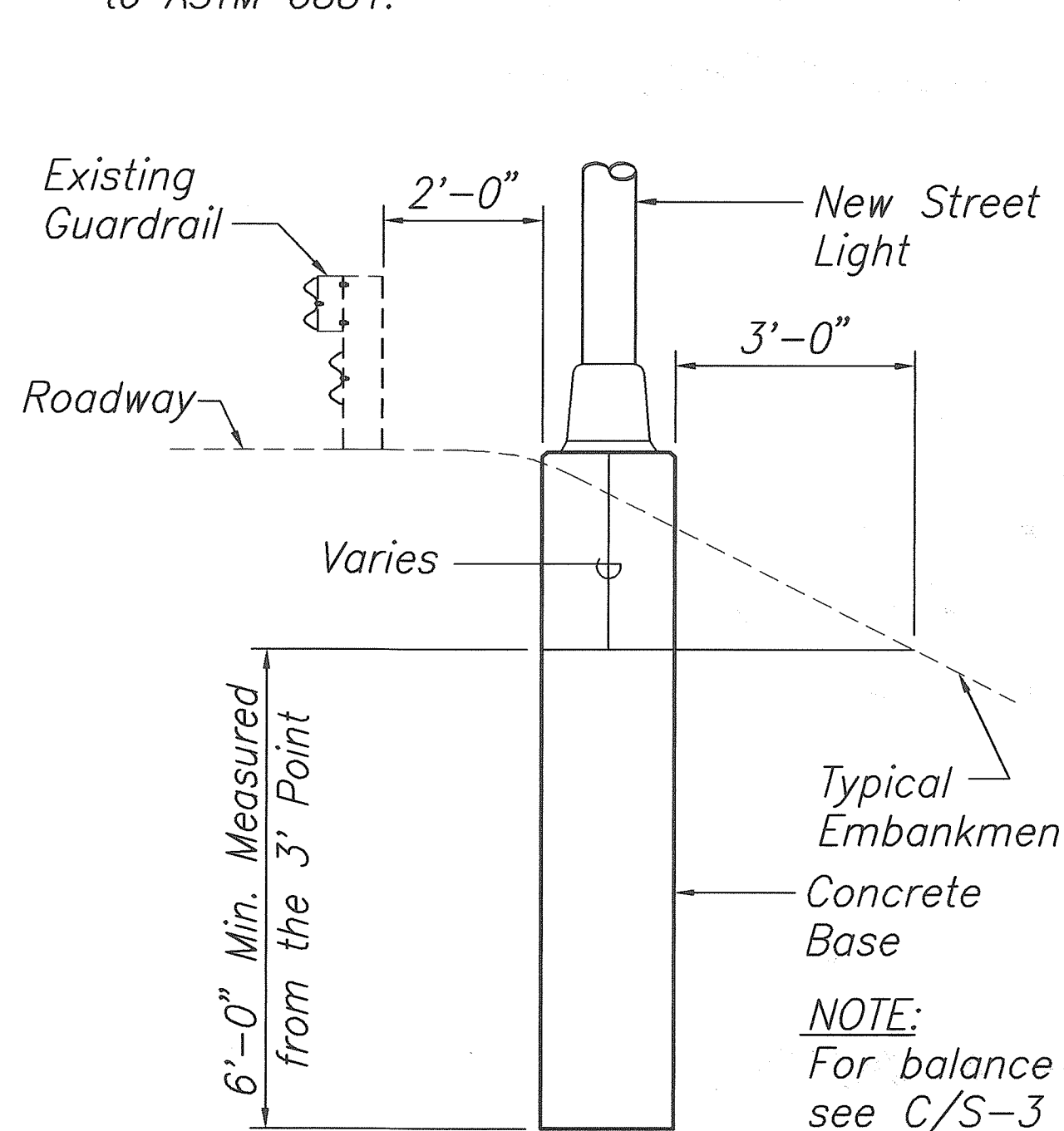
- Notes:**
- For Locations and Details of Conduits and Pullboxes, See Electrical Plans.
  - Fill the Hole with Epoxy to Match the Existing Reinforcing. The Ceramic Epoxy shall Conform to ASTM C881.

PLAN

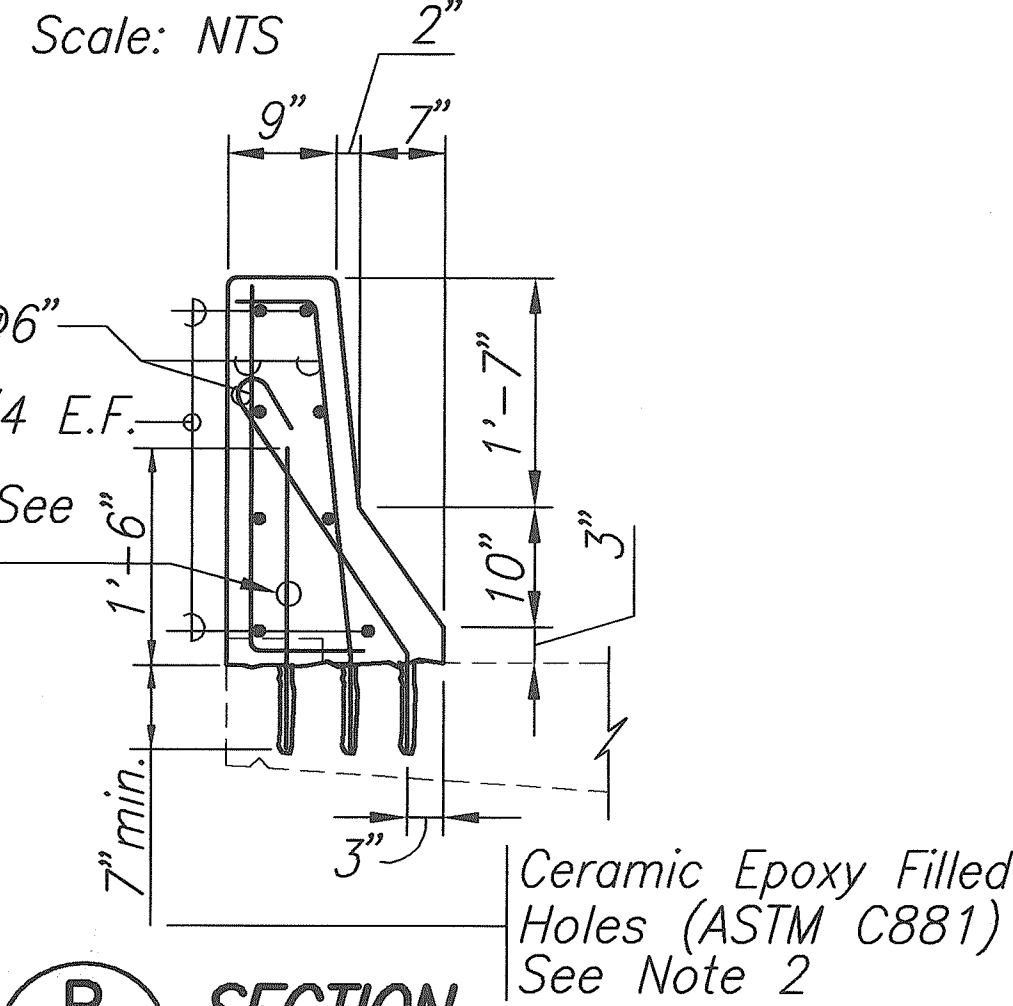
SECTION 'D'-D'

ELEVATION

# 1 MOUNTING DETAIL-HIGHWAY LIGHTING STANDARD ON 50C CONCRETE BARRIER S-4 Scale: 1/2"=1'-0"



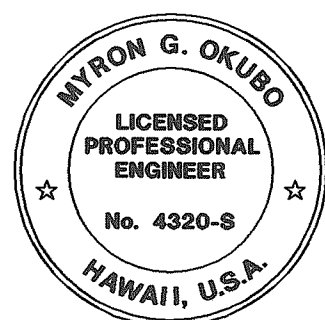
## TYPICAL DOWEL DETAILS Scale: NTS



## Section B S-4 Scale: 3/4"=1'-0"

## 2 CONCRETE BASE DETAIL - TYPICAL S-4 Scale: 1/2"=1'-0"

## 3 PLAN S-4 Detail of light standard base connection (typ.) Scale: 3/4"=1'-0"



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|                                                                      |                    |
|----------------------------------------------------------------------|--------------------|
| 9-3-99                                                               | TRANSITION TAPER   |
| DATE                                                                 | REVISION           |
| STATE OF HAWAII<br>DEPARTMENT OF TRANSPORTATION<br>HIGHWAYS DIVISION |                    |
| POLE MOUNTING DETAILS                                                |                    |
| HIGHWAY LIGHTING SAFETY IMPROVEMENTS                                 |                    |
| LIKELIKE HIGHWAY                                                     |                    |
| FROM SCHOOL STREET                                                   |                    |
| TO VALLEY VIEW DRIVE                                                 |                    |
| PROJECT NO. STP-0300(66)                                             |                    |
| Scale: As Noted                                                      | Date: July 9, 1999 |
| SHEET No. S-4 OF SHEETS                                              |                    |

AS-BUILT

C.O.ADD. S-4

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| SURVEY PLOTTED BY | DATE |
| DRAWN BY          |      |
| DESIGNED BY       |      |
| QUANTITIES BY     |      |
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| ORIGINAL PLAN     |      |
| NO.               |      |

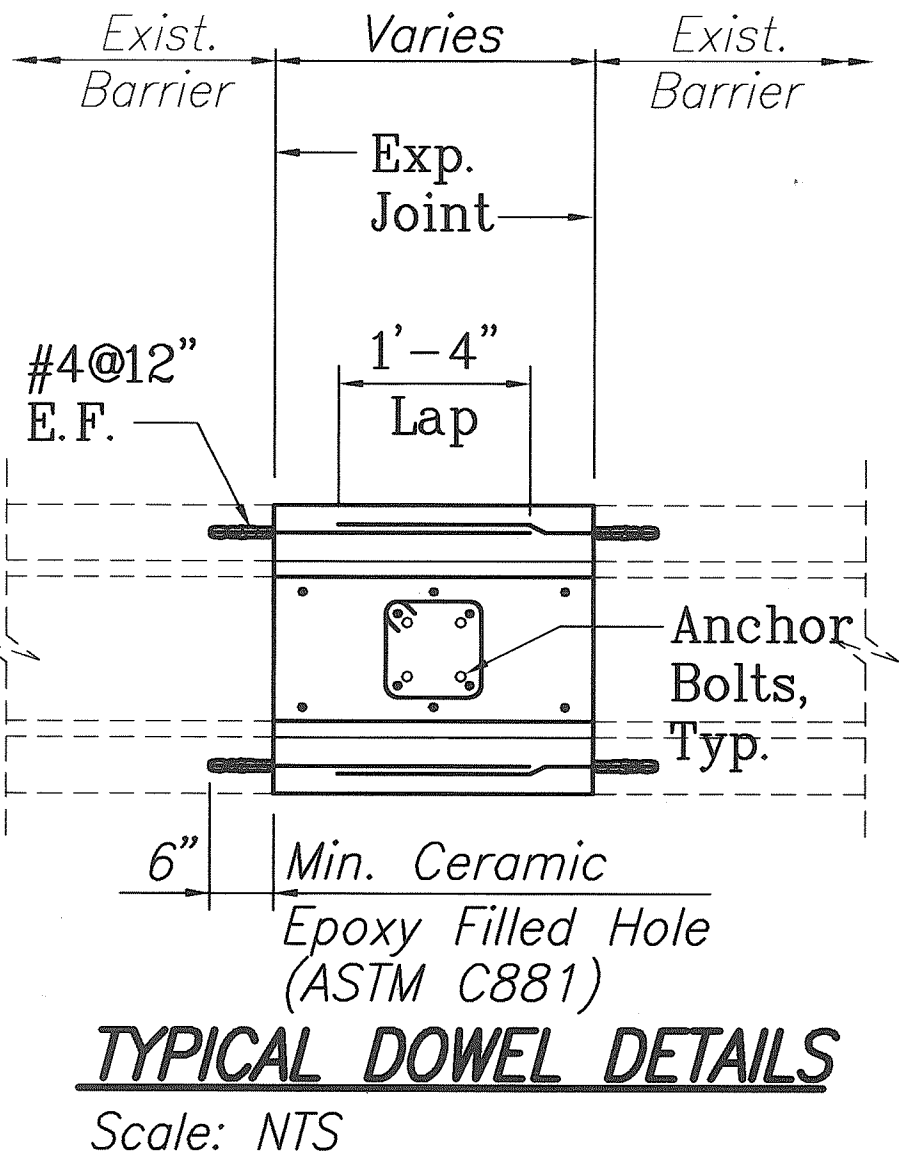
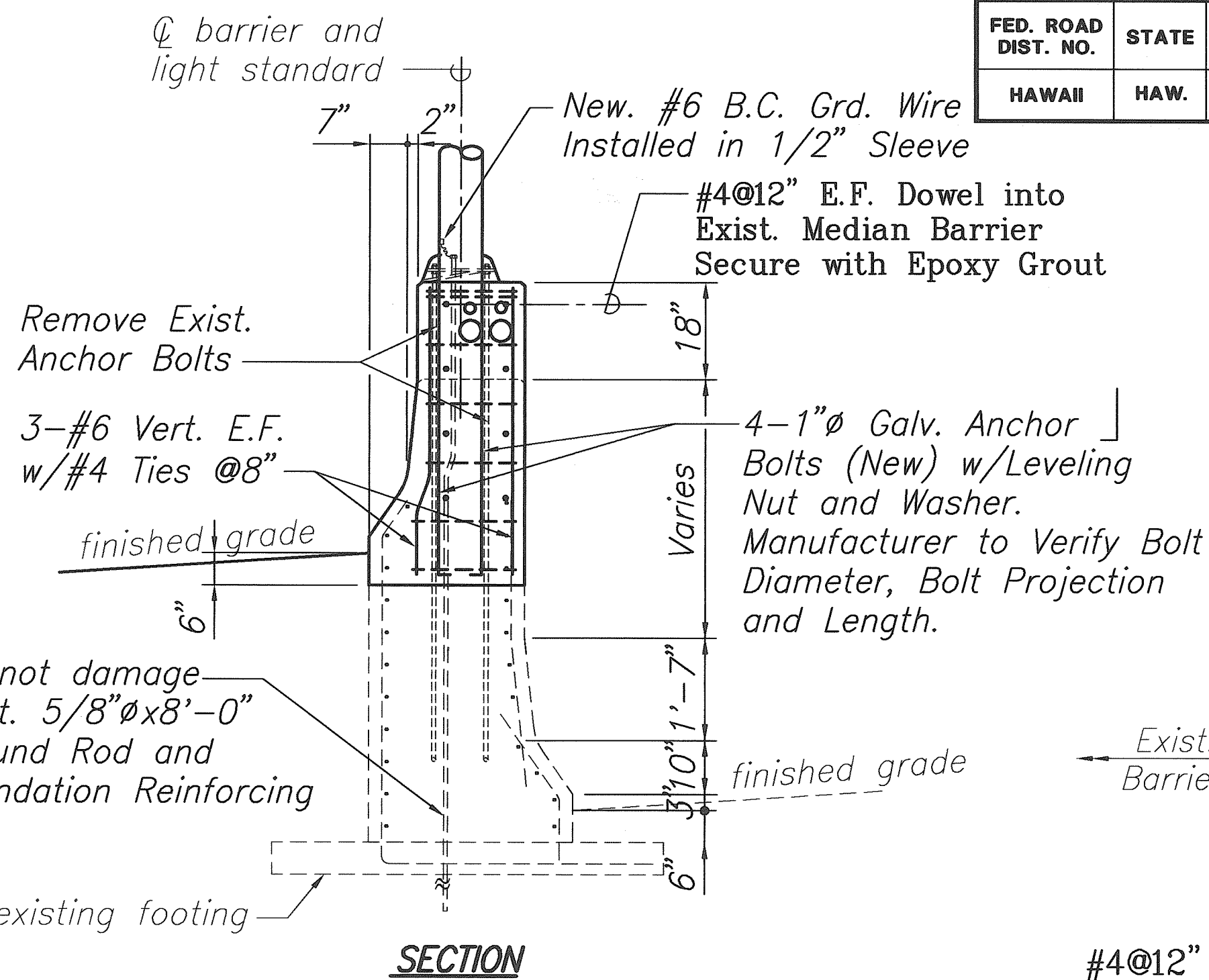
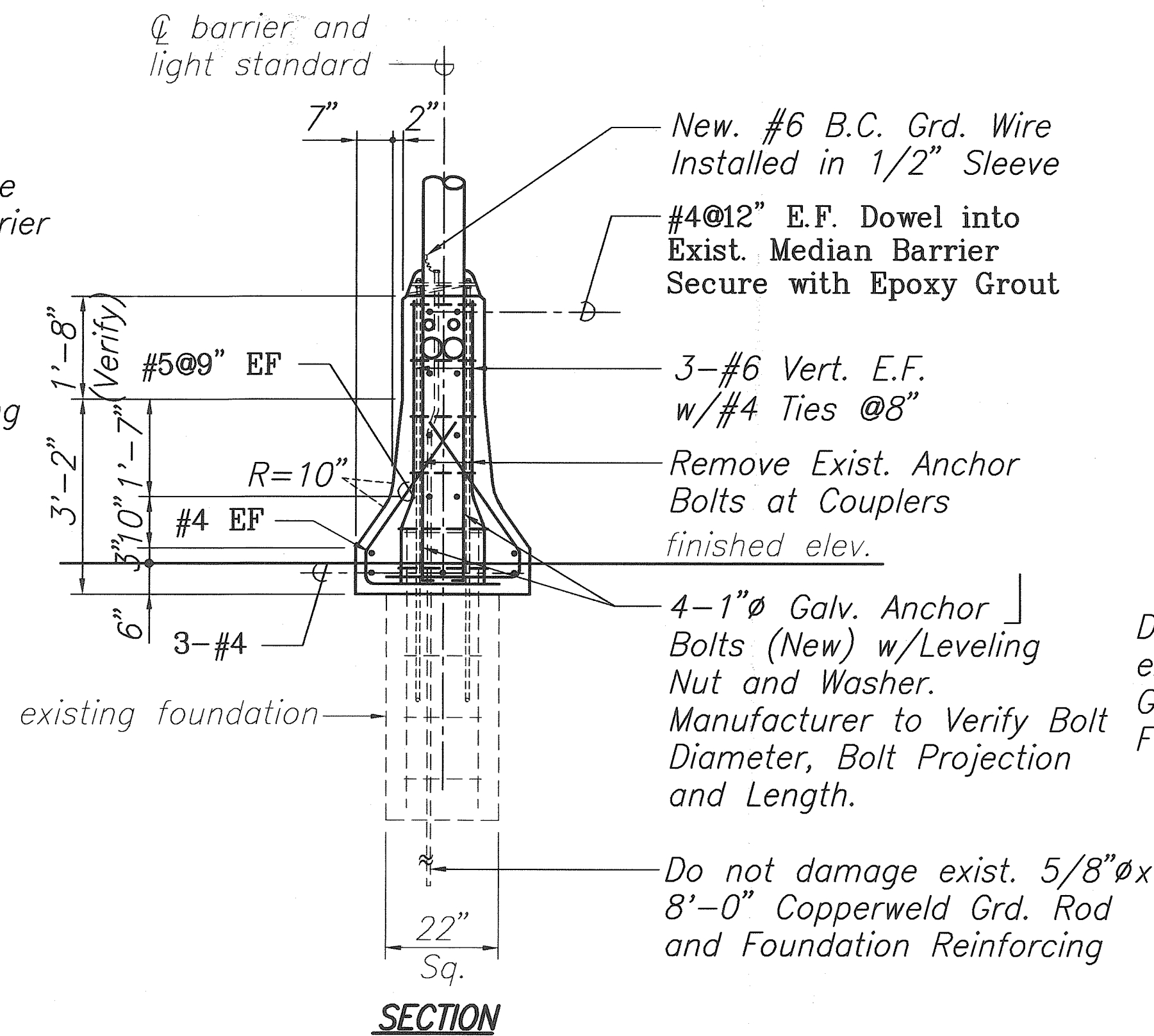
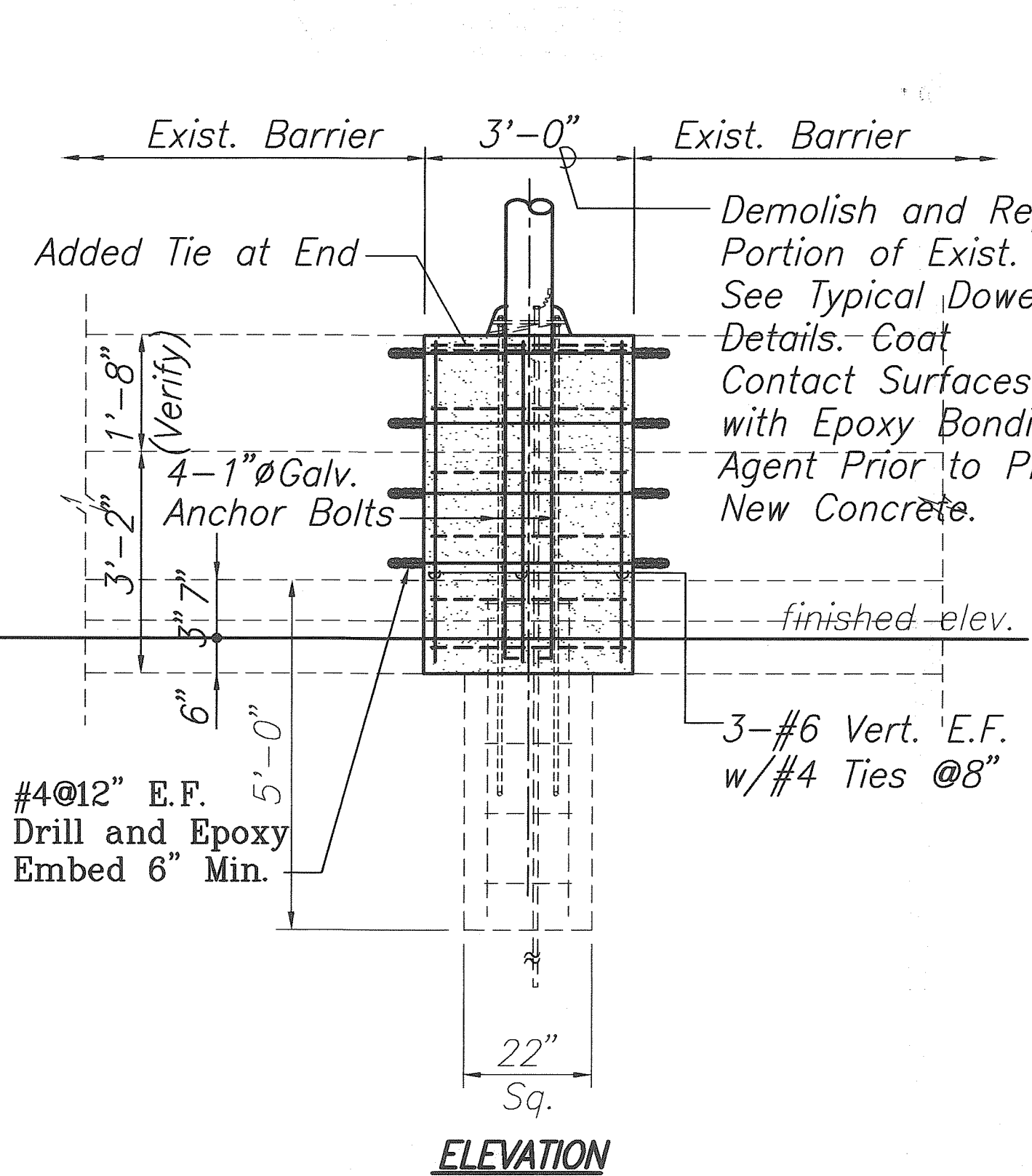
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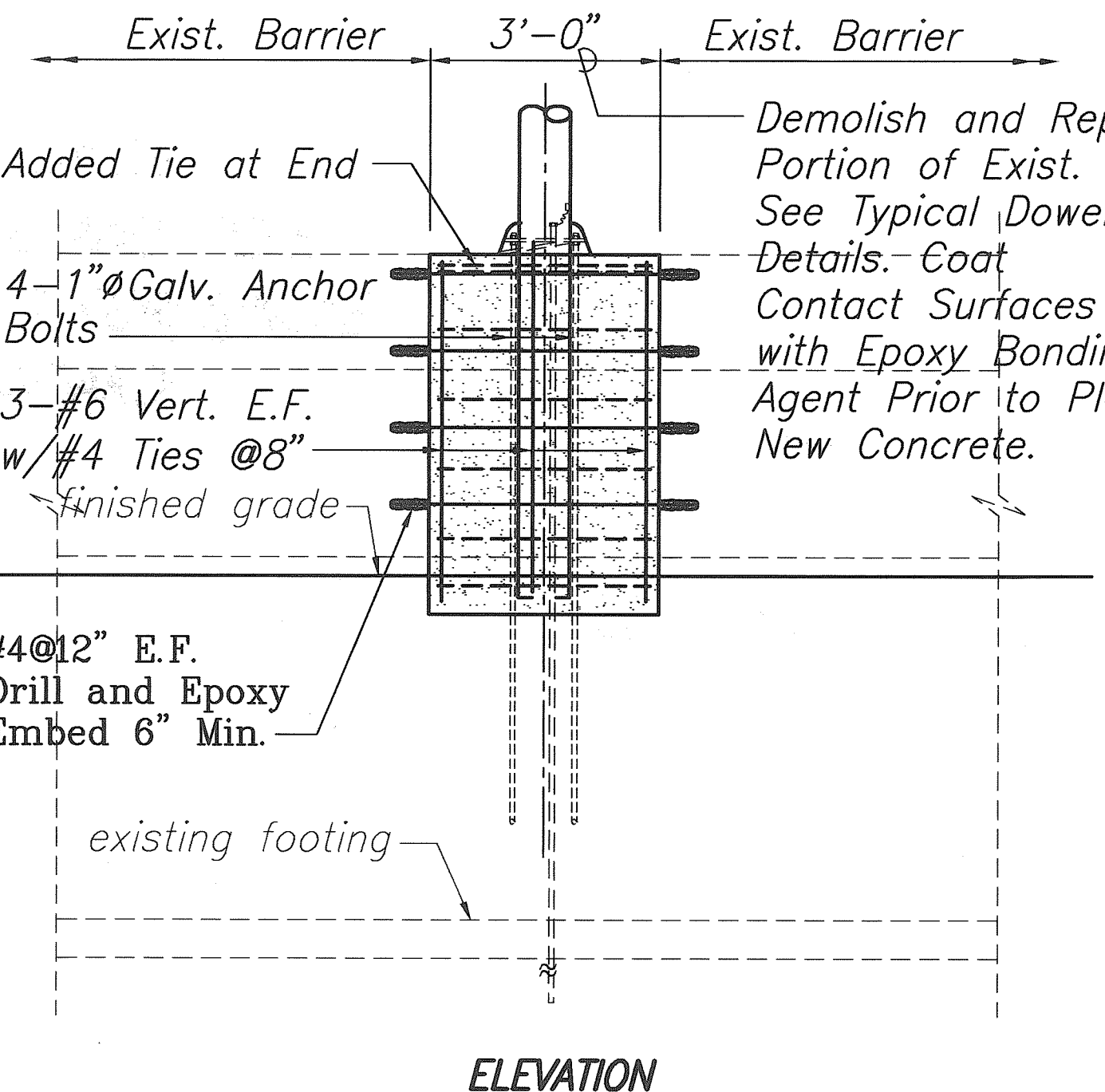
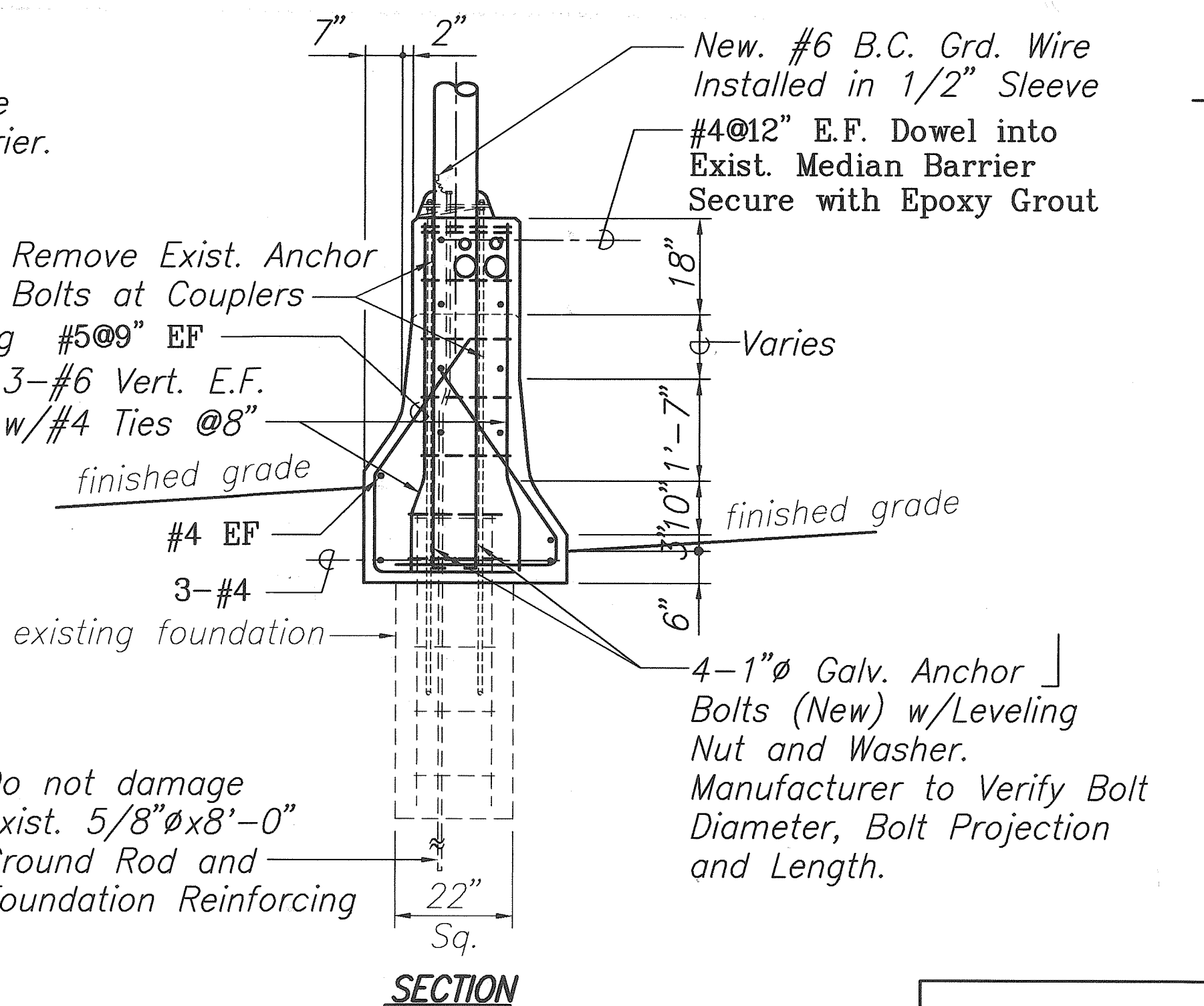
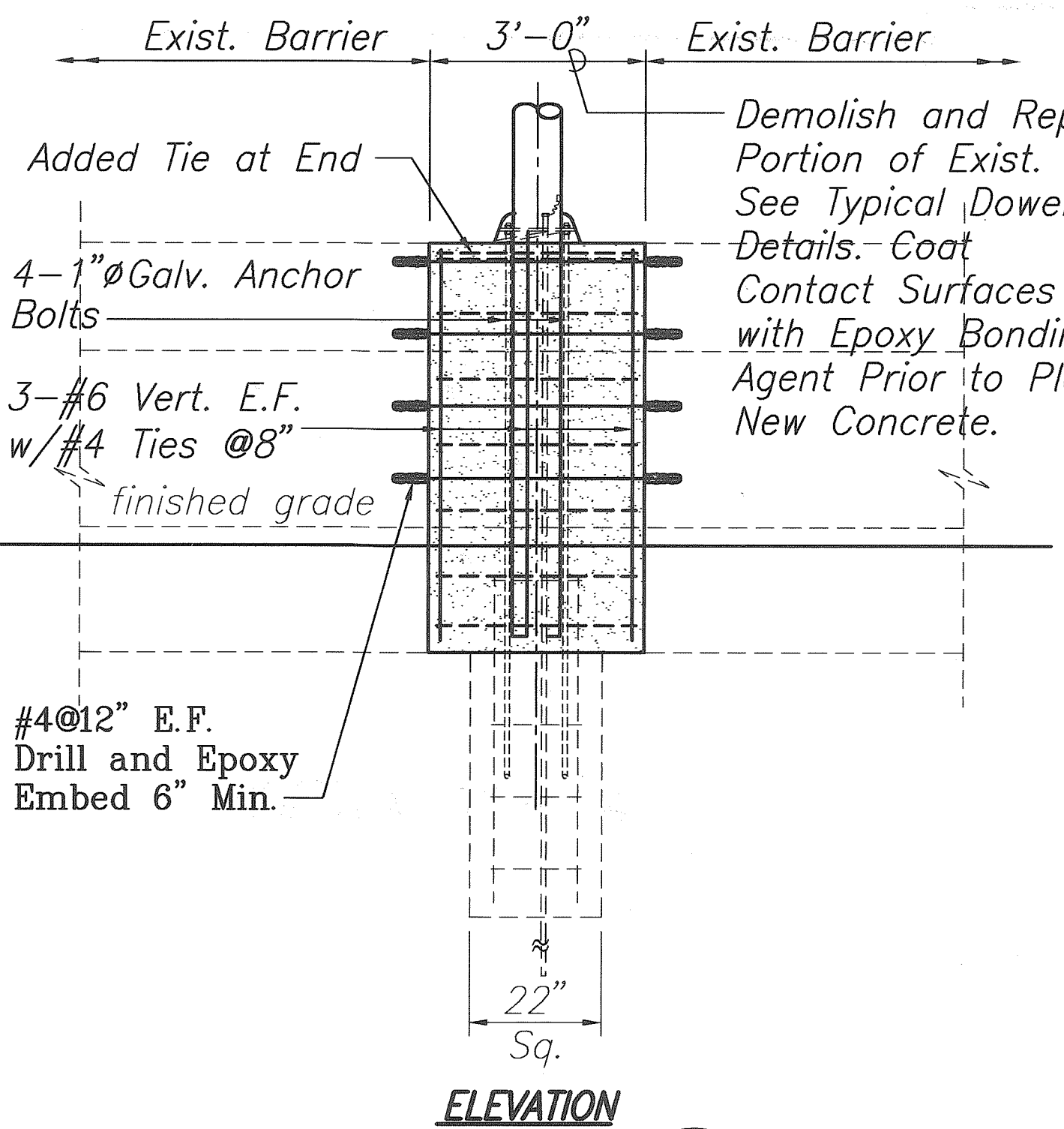


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| HAWAII              | HAW.  | STP-0300(66)       | 1998        |           |              |



Notes

1. For Locations and Details of Conduits and Pull Boxes - See Electrical Plans



**1 TYPE "A" CONCRETE BARRIER**

S-6 Scale: 1/2"=1'-0"

**2 TYPE "B" CONCRETE BARRIER**

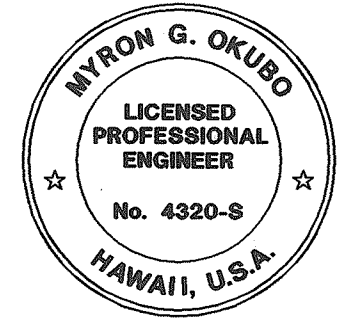
S-6 Scale: 1/2"=1'-0"

**3 TYPE "C" & "D" CONCRETE BARRIER**

S-6 Scale: 1/2"=1'-0"

**LEGEND FOR AS-BUILT POSTINGS**

Structural Text for "As-Built" Posting



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*Myron Okubo*

| DATE                                                                                                                                                                                                                                                                                                             | REVISION |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|
| STATE OF HAWAII<br>DEPARTMENT OF TRANSPORTATION<br>HIGHWAYS DIVISION<br><b>POLE MOUNTING DETAILS</b><br>HIGHWAY LIGHTING SAFETY IMPROVEMENTS<br>INTERSTATE H-1<br>FROM KEEAUMOKU STREET<br>TO AINAKOA AVENUE<br>PROJECT NO. STP-0300(66)<br>Scale: As Noted Date: July 9, 1999<br><b>SHEET No. S-6 OF SHEETS</b> |          |

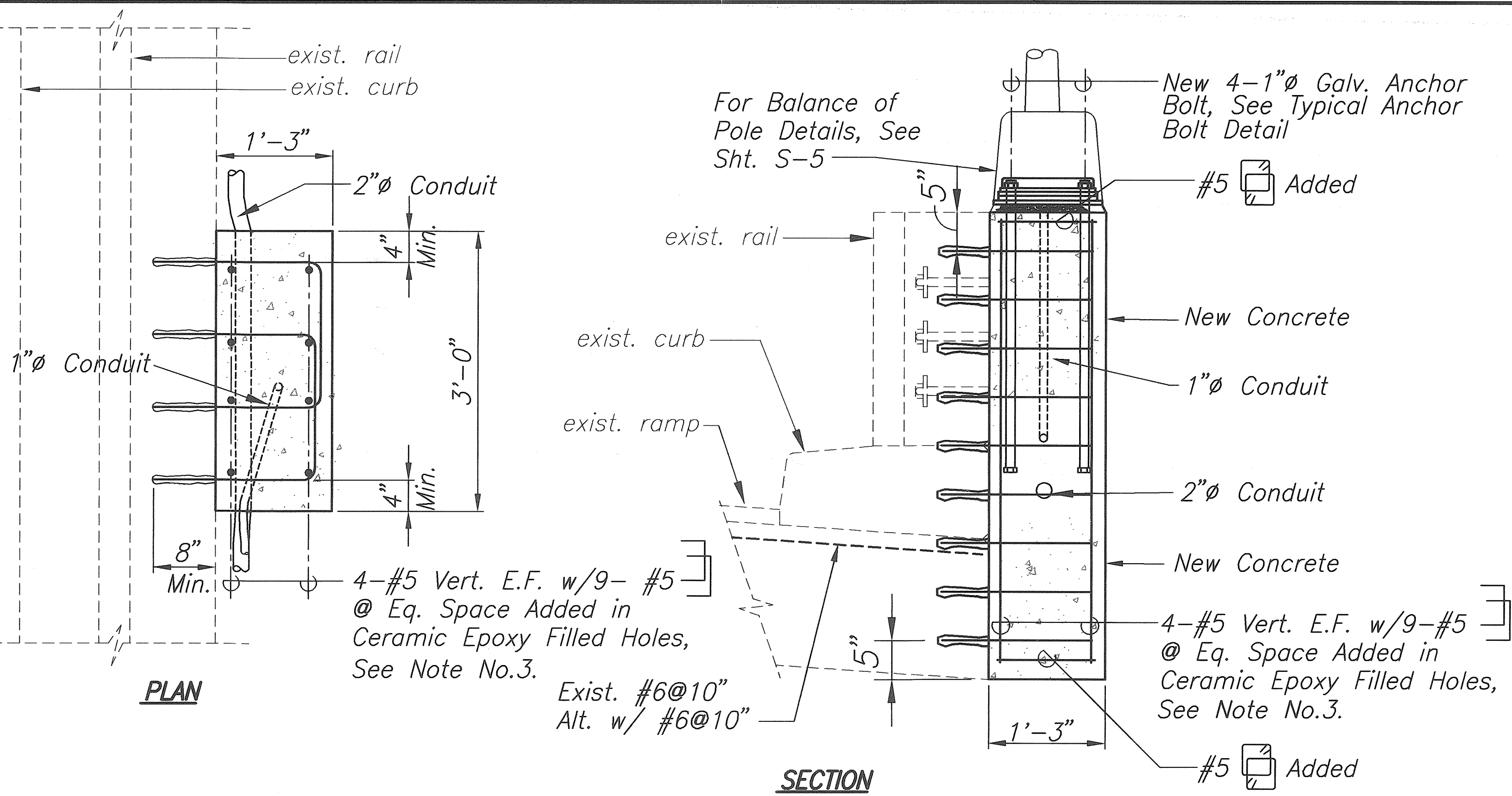
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| SURVEY PLOTTED BY | DATE |
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| DESIGNED BY       |      |
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| ORIGINAL PLAN     |      |
| NO.               |      |

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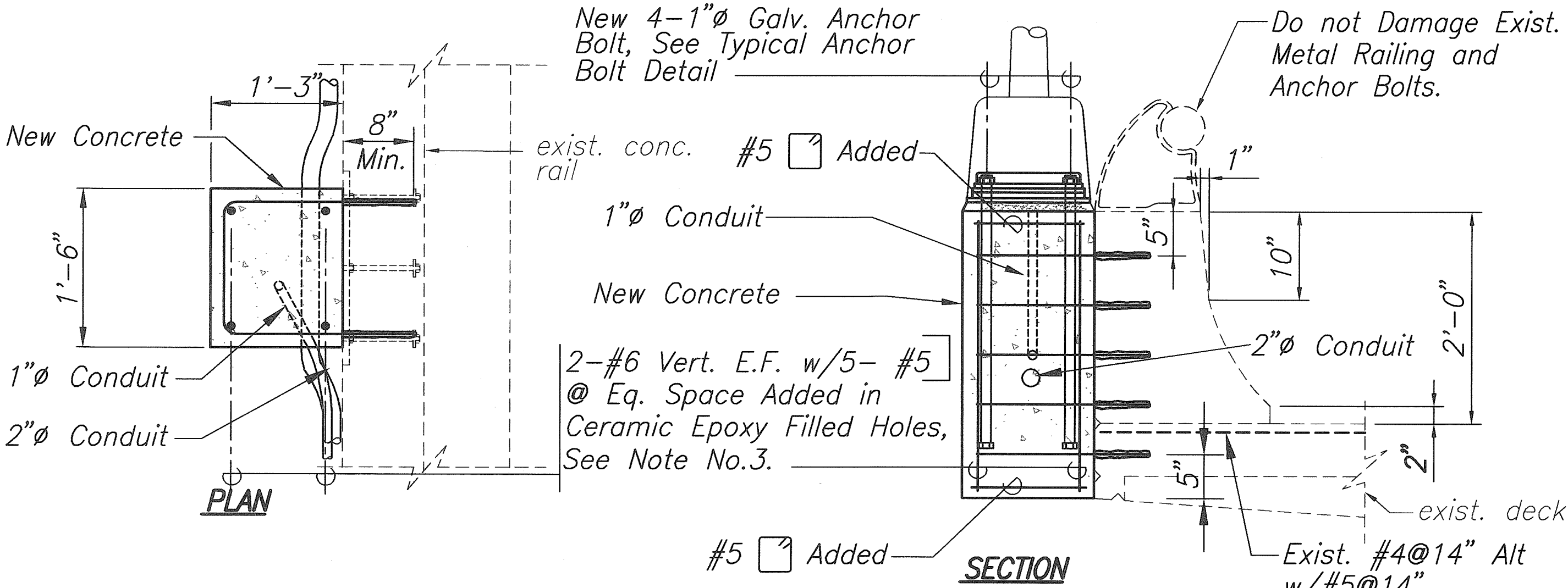
"AS-BUILT"



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|---------------------|-------|--------------------|-------------|-----------|--------------|
| HAWAII              | HAW.  | STP-0300(66)       | 1998        |           |              |

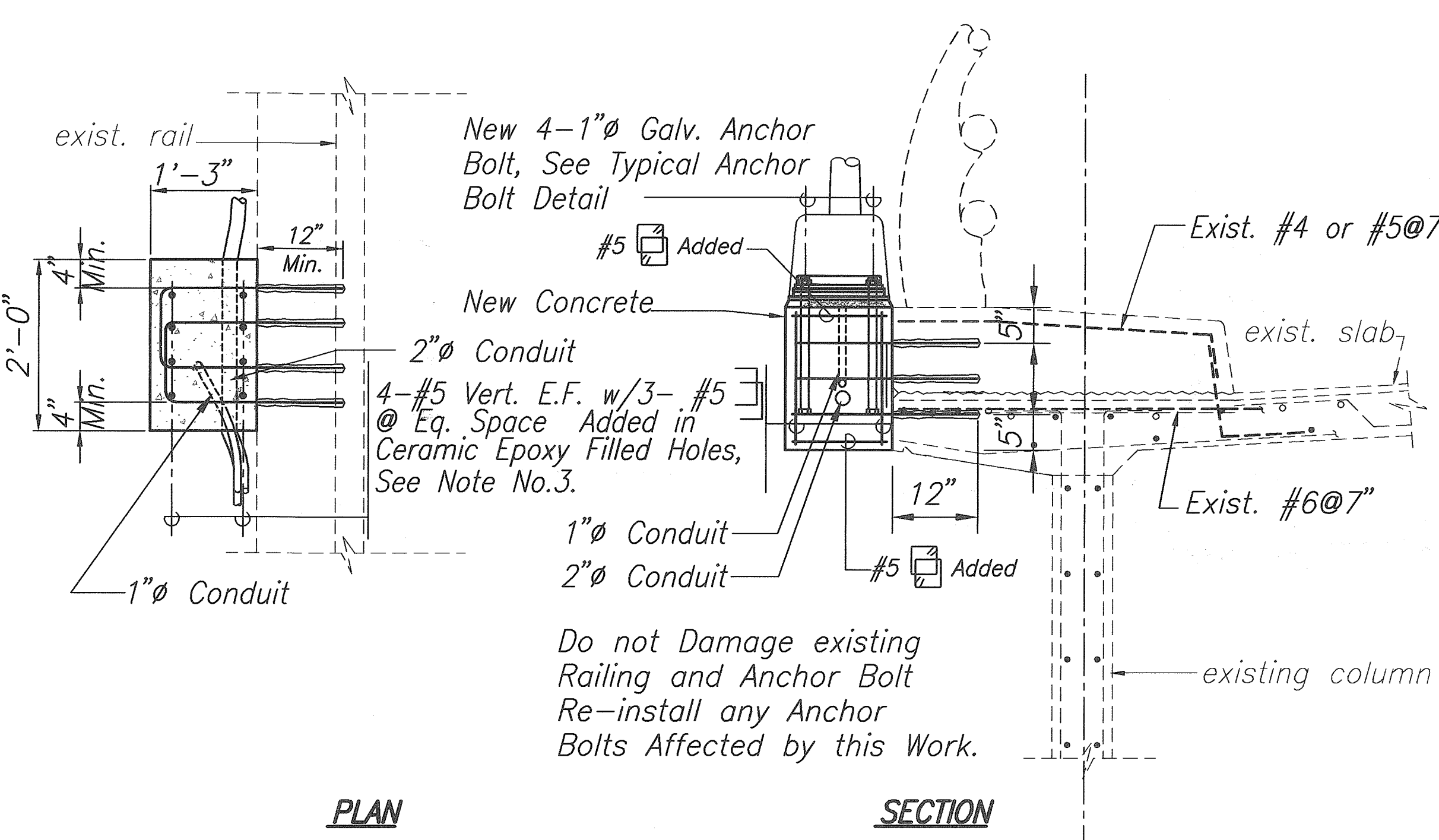


**1 LIGHT STANDARD AT EXIST. RAMP U-I**  
S-7 Scale: 1"=1'-0"

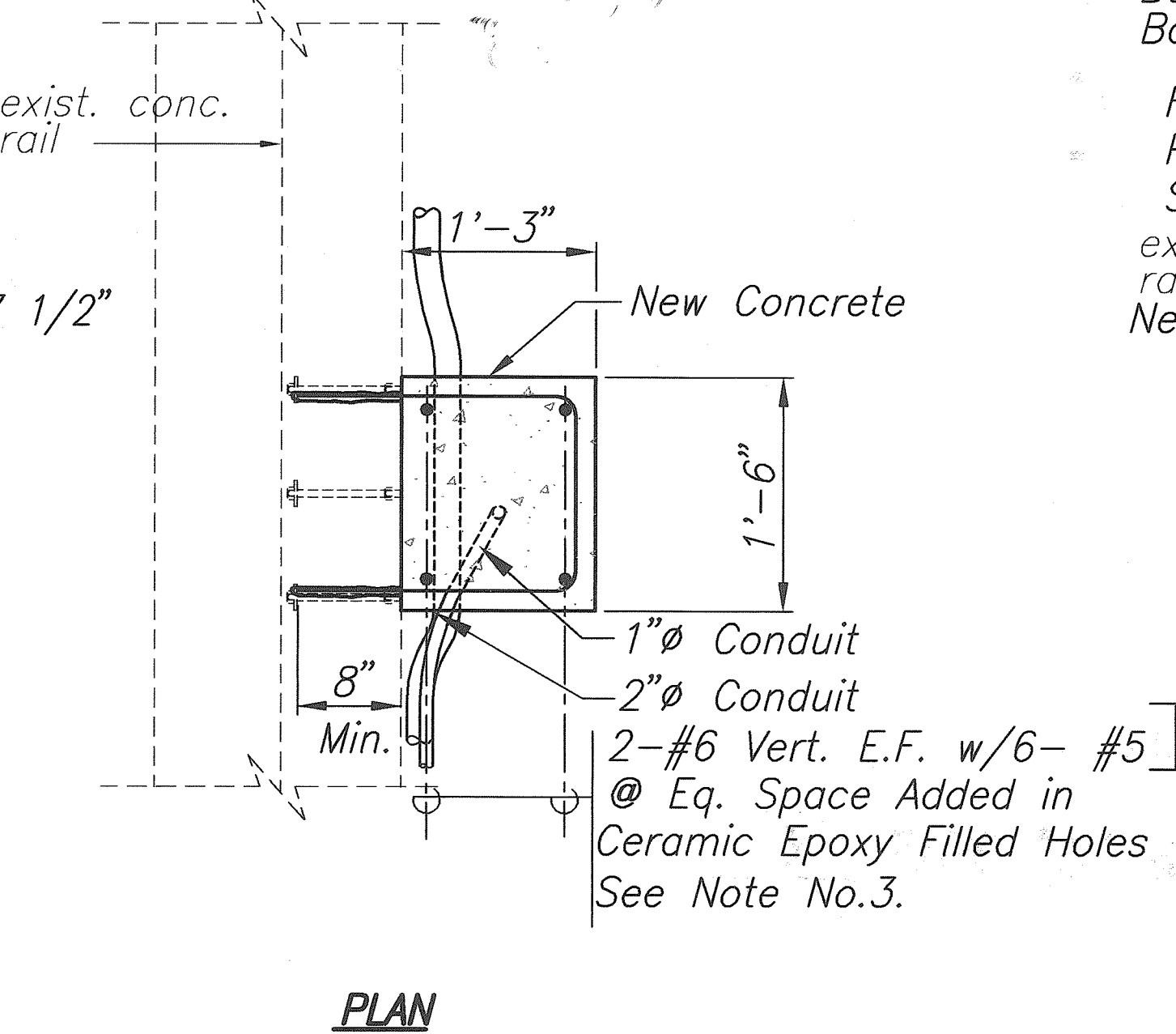


**4 LIGHT STANDARD AT EXIST. WAIALAE VIADUCT**  
S-7 Scale: 1"=1'-0"

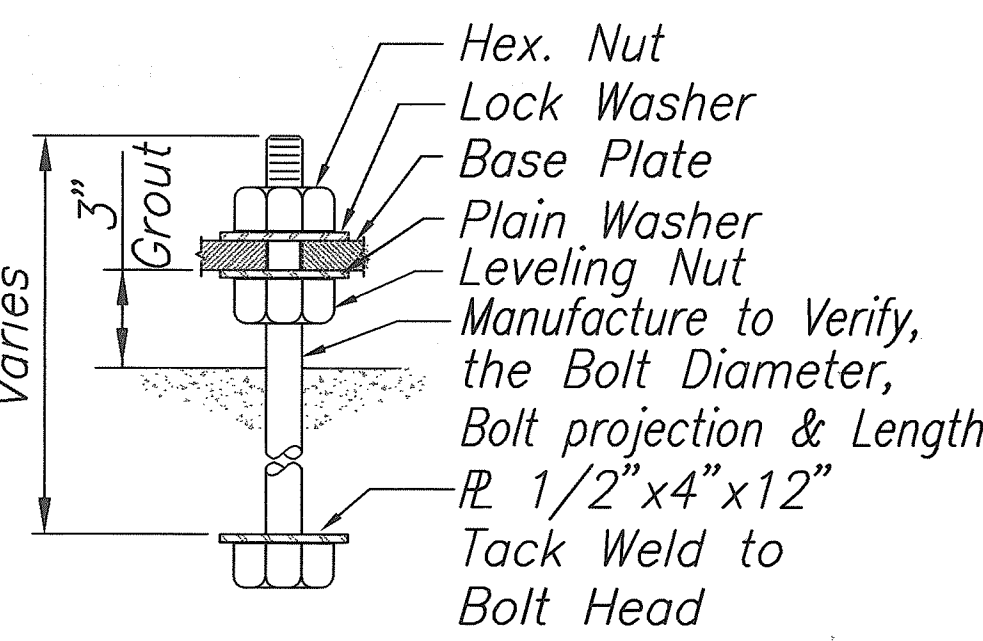
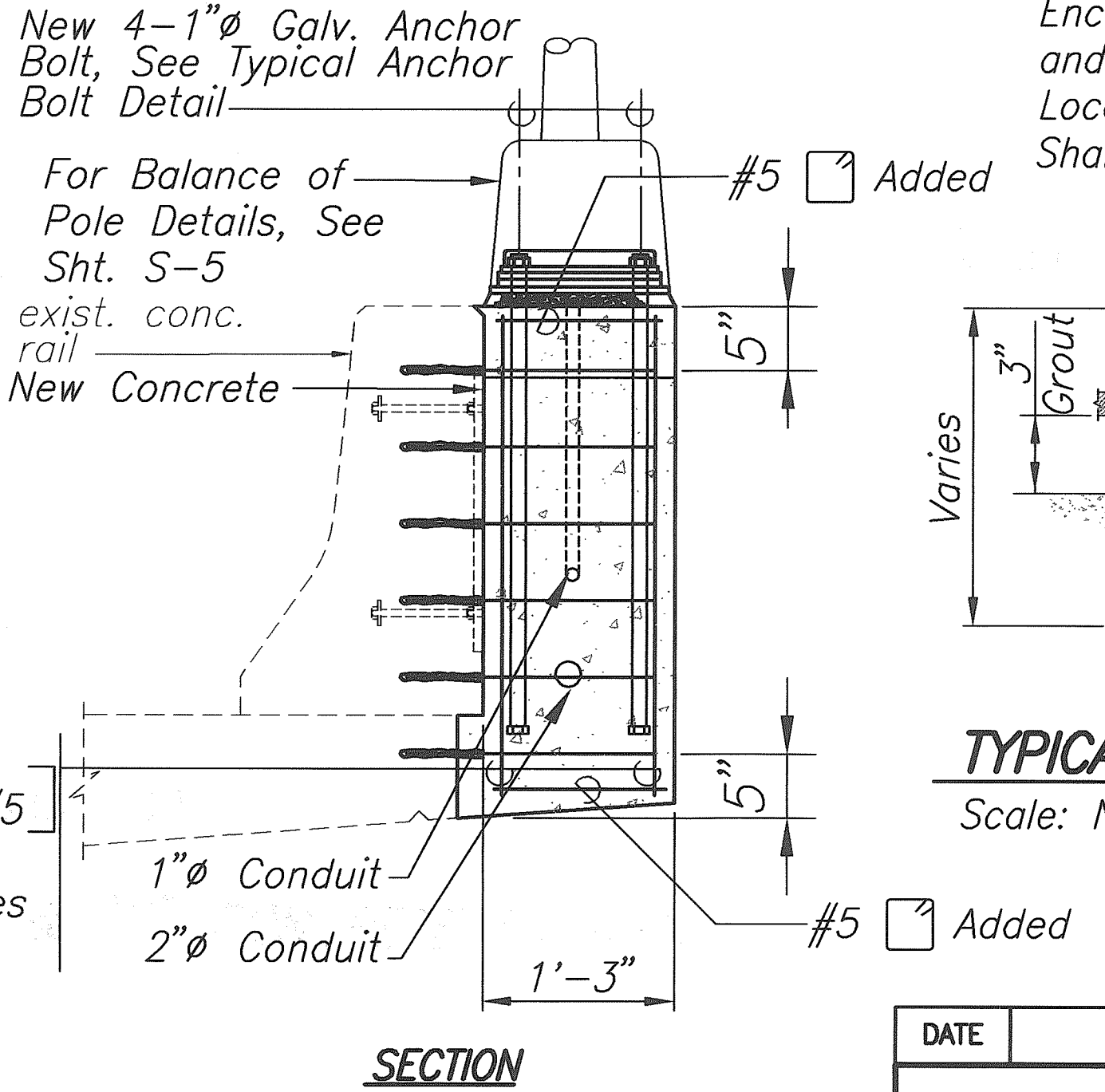
- Notes:**
1. Remove Exist. Pole and Pole Supports. Replace with New Pole and Supports, Do Not Damage Exist. Concrete Rail.
  2. For locations and details of Conduits and Pullboxes See Electrical Plans.
  3. Do not damage the Existing Rebars. Fill the Hole with Epoxy While Encountering the Existing Rebars and Drill a New Hole at Different Location. The Ceramic Epoxy Shall be ASTM C881.



**3 SUPPORT AT RAMP H1-I**  
S-7 Scale: 3/4"=1'-0"

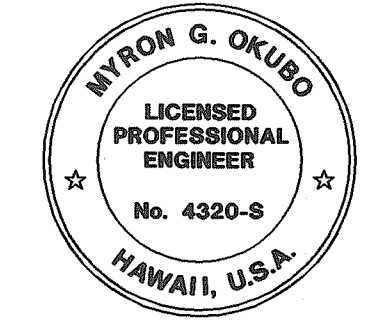


**5 CONNECTION DETAIL RAMP H1-K**  
S-7 Scale: 1"=1'-0"



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| DATE              | 07/09/99       |
| SURVEY PLOTTED BY | 10:55          |
| DESIGNED BY       | FINAL          |
| NOTED BY          | W: DWG 6247-01 |
| CHECKED BY        |                |
| ORIGINAL PLAN     |                |
| NO.               |                |

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*Myron Okubo*

| DATE | REVISION                                                                                                                                                                                                                                                                                                  |
|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|      | STATE OF HAWAII<br>DEPARTMENT OF TRANSPORTATION<br>HIGHWAYS DIVISION<br><b>POLE MOUNTING DETAILS</b><br>HIGHWAY LIGHTING SAFETY IMPROVEMENTS<br>INTERSTATE H-1<br>FROM KEEAUMOKU STREET<br>TO AINAKOA AVENUE<br>PROJECT NO. STP-0300(66)<br>Scale: As Noted Date: July 9, 1999<br>SHEET No. S-7 OF SHEETS |

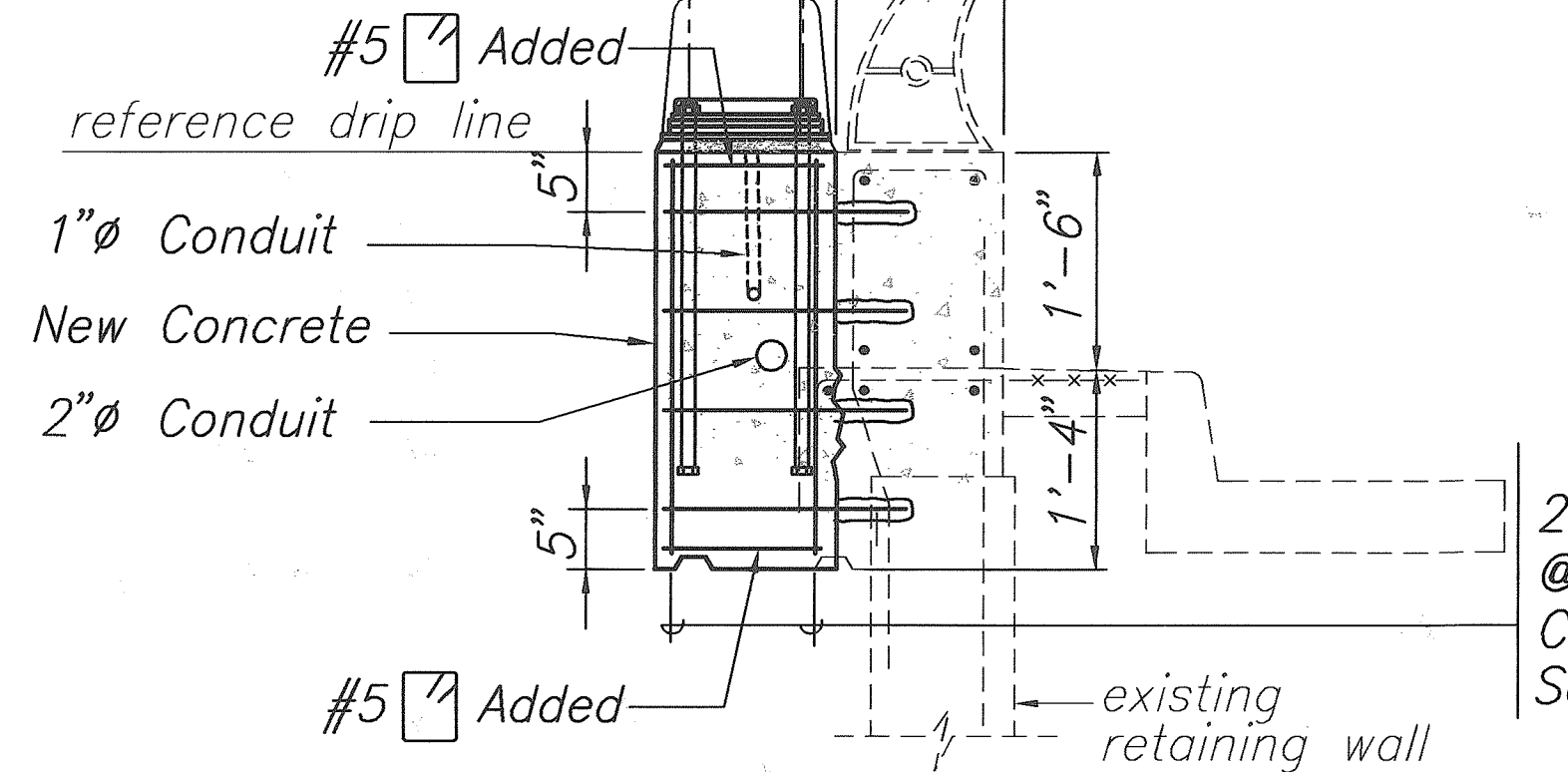
"AS-BUILT"



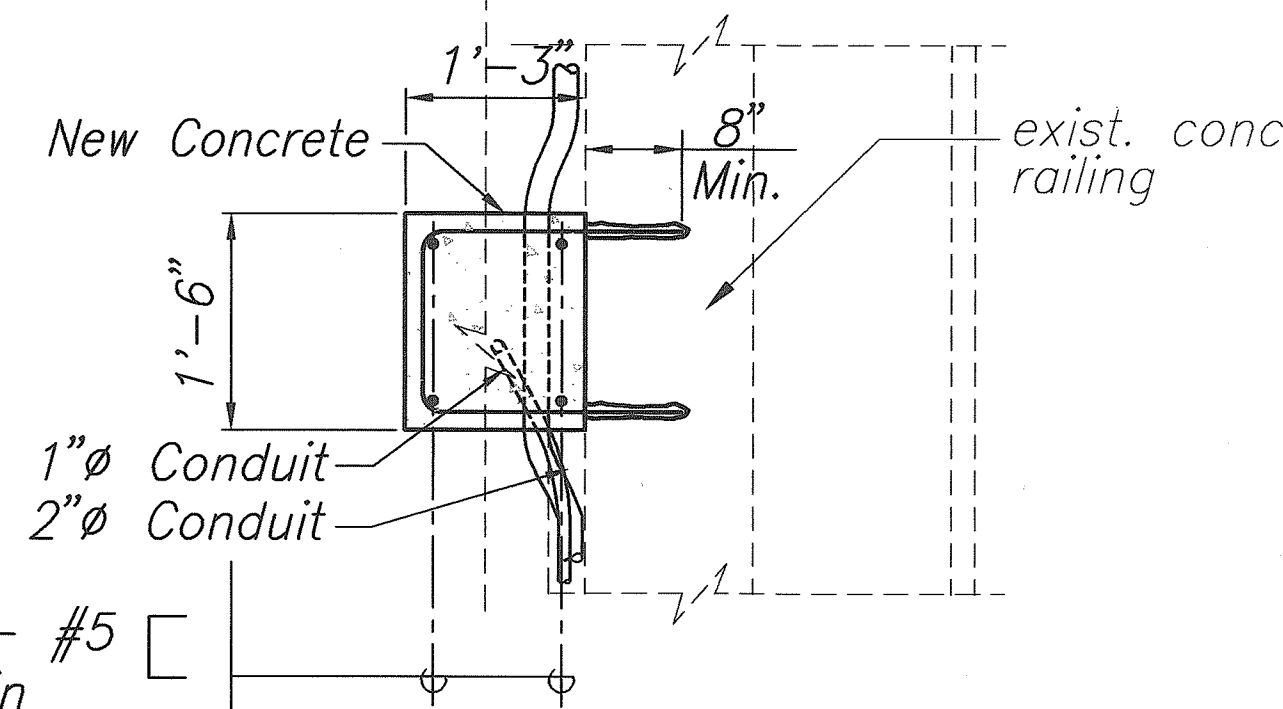
New 4-1"Ø Galv. Anchor Bolt, See Typical Anchor Bolt Details on Sheet No. S-7

existing conc. curb and gutter and slab, hwy. tem.

existing railing



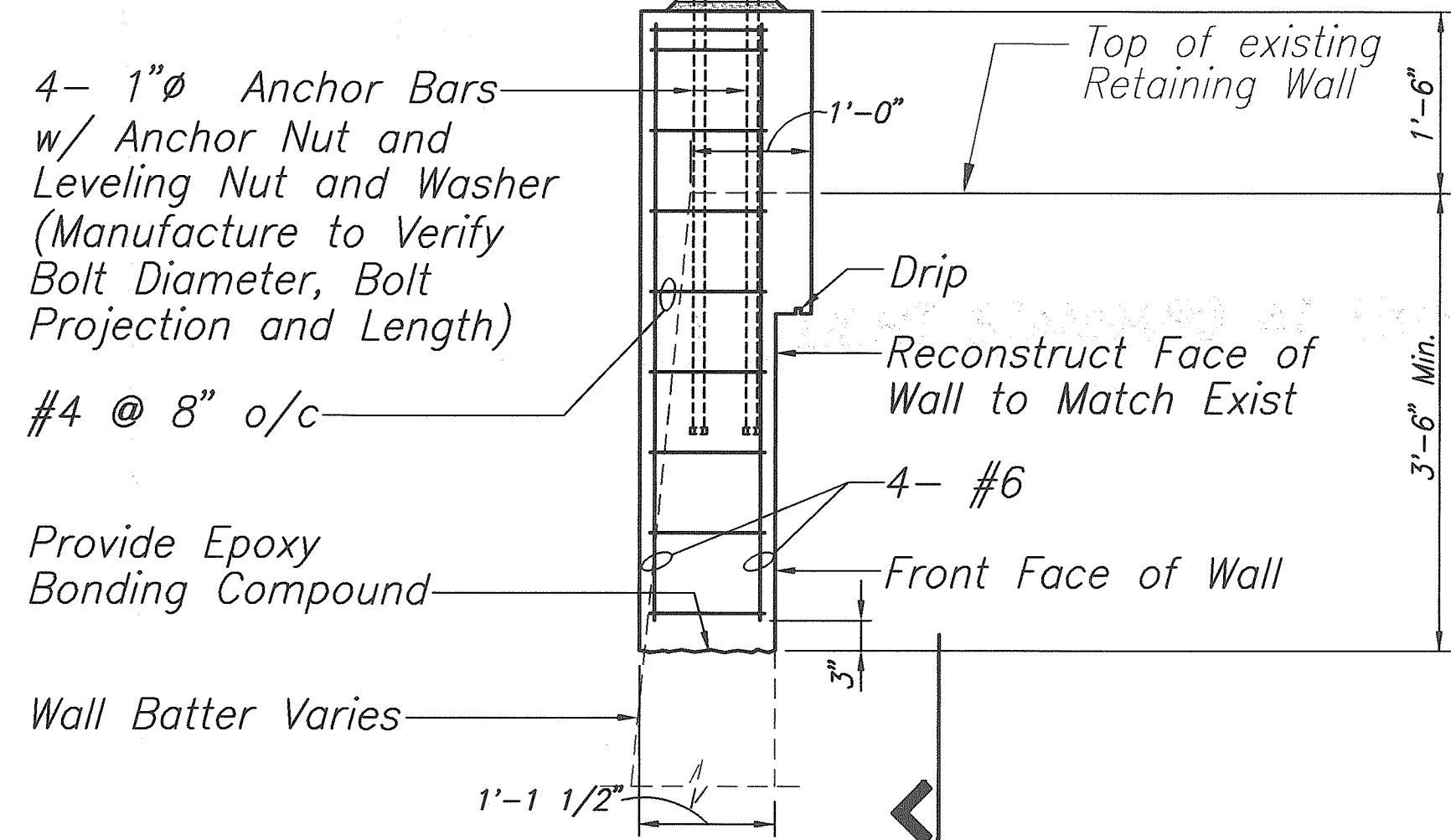
2-#6 Vert. E.F. w/4- #5 @ Eq. Space Added in Ceramic Epoxy Filled Holes, See Notes on sheet No. S-7.



PLAN

SECTION

FROM 6th AVENUE to KOKO HEAD AVENUE  
CONDITION OF POLE SUPPORTS  
MOUNTED ON RETAINING WALL  
1 S-8 Scale: 3/4"=1'-0"



Provide Epoxy Bonding Compound

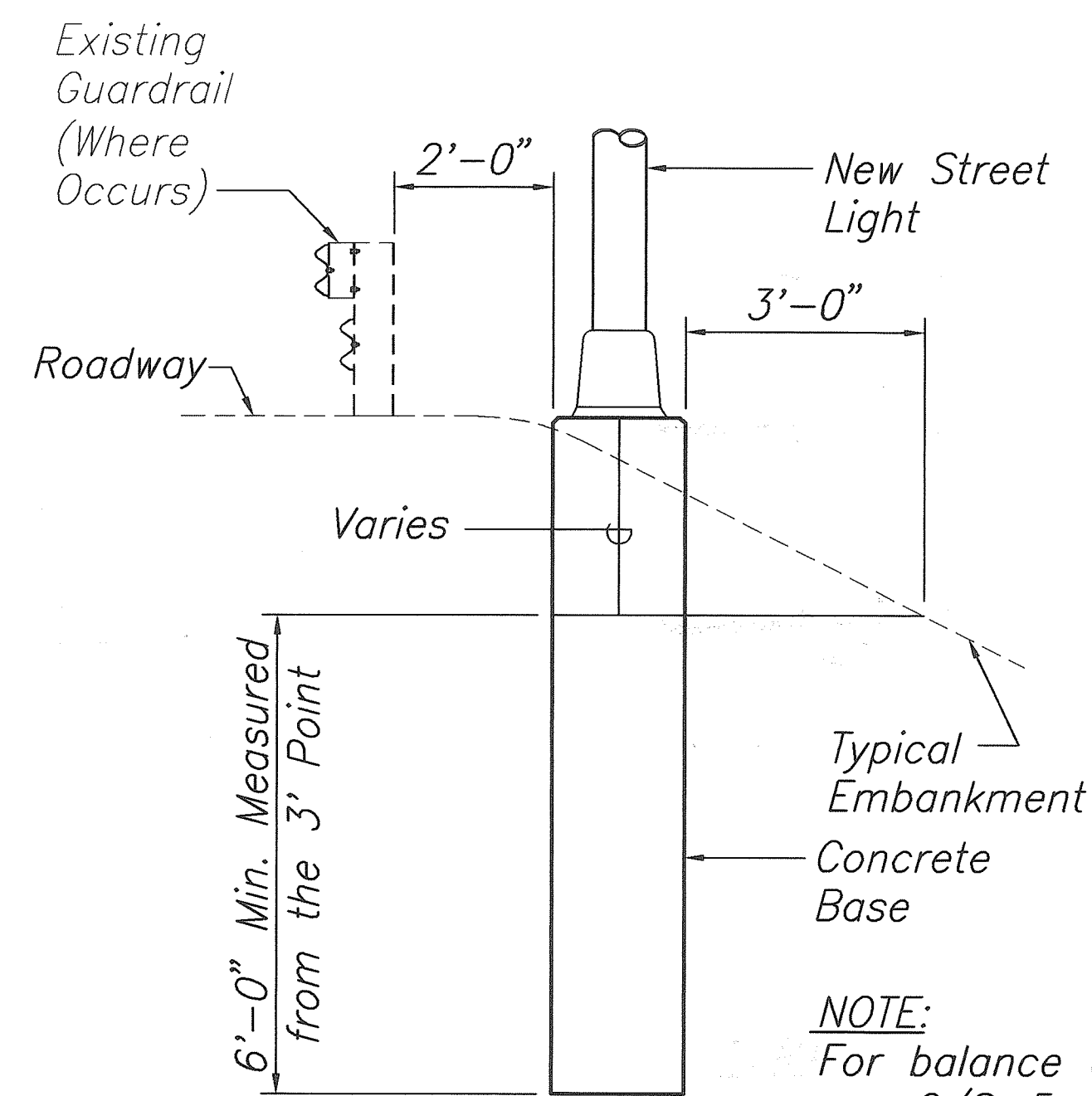
Wall Batter Varies

#4 @ 12" E.F. Staggered in Ceramic Epoxy Filled Hole, Lap 1'-4"

Coat Contact Surface with Epoxy Bonding Compound Prior to Placing Concrete

4- #4 E.F. in Ceramic Epoxy Filled Hole, Lap 1'-4"

2 CONDITION AT TOP OF RETAINING WALL  
S-8 Scale: 3/4"=1'-0"



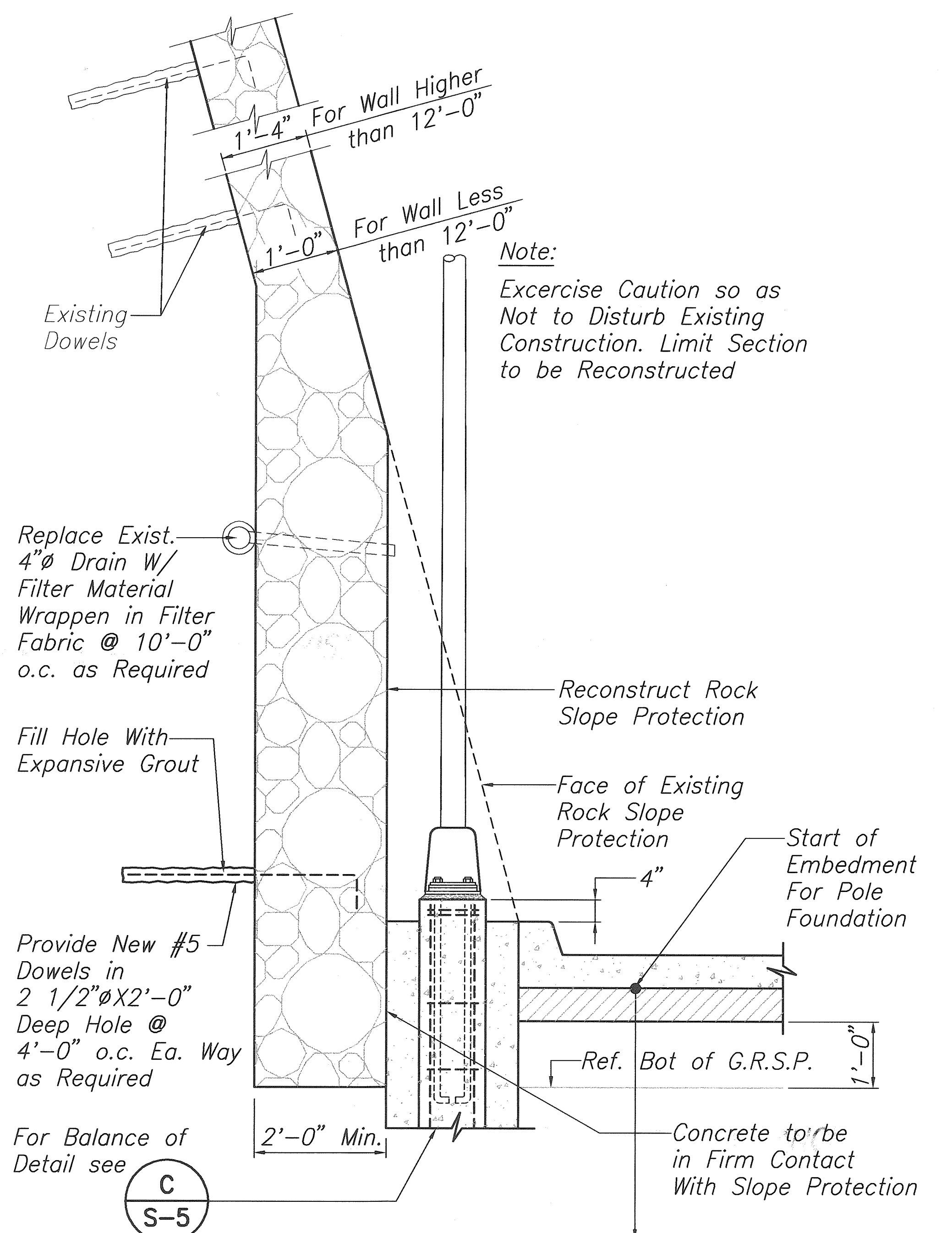
NOTE:  
For balance of Details, see C/S-5

4 CONCRETE BASE DETAIL - TYPICAL  
S-8 Scale: 1/2"=1'-0"

Notes:

1. For Locations and Details of Conduits and Pullboxes, See Electrical Plans.

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| HAWAII              | HAW.  | STP-0300(66)       | 1998        |           |              |



Note:

Excercise Caution so as Not to Disturb Existing Construction. Limit Section to be Reconstructed

Replace Exist. 4"Ø Drain W/ Filter Material Wrappen in Filter Fabric @ 10'-0" o.c. as Required

Fill Hole With Expansive Grout

Provide New #5 Dowels in 2 1/2"ØX2'-0" Deep Hole @ 4'-0" o.c. Ea. Way as Required

For Balance of Detail see

C S-5

3 CONDITION AT GROUTED ROCK SLOPE PROTECTION  
S-8 Scale: 3/4"=1'-0"



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| DATE | REVISION                                                                                                                                                                                                                                                                                           |
|------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|      | STATE OF HAWAII<br>DEPARTMENT OF TRANSPORTATION<br>HIGHWAYS DIVISION<br>POLE MOUNTING DETAILS<br>HIGHWAY LIGHTING SAFETY IMPROVEMENTS<br>INTERSTATE H-1<br>FROM KEEAUMOKU STREET<br>TO AINAKOA AVENUE<br>PROJECT NO. STP-0300(66)<br>Scale: As Noted Date: July 9, 1999<br>SHEET No. S-8 OF SHEETS |

"AS-BUILT"



| FED. ROAD DIST. NO. | STATE | FED. AID PROJ. NO. | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
|---------------------|-------|--------------------|-------------|-----------|--------------|
| HAWAII              | HAW.  | STP-0300(66)       | 1998        |           |              |

**GENERAL NOTES:**

DESIGN SPECIFICATIONS:  
AASHTO Standard Specifications for Structural Supports for Highway Signs, Luminaires and Traffic Signals (1994).

GENERAL SPECIFICATIONS:  
Hawaii Standard Specifications for Road, Bridge, and Public Works Construction, 1994.

DESIGN WIND LOAD: 100 mph Wind Velocity.

MATERIALS:  
Reinforced Concrete: Class A unless noted otherwise.  
Reinforced Steel: ASTM A615, Grade 60 unless otherwise noted, ASTM A615 GR 40 for Stirrups and Ties.  
Anchor Bolts: ASTM A36 Hot Dip Galvanized

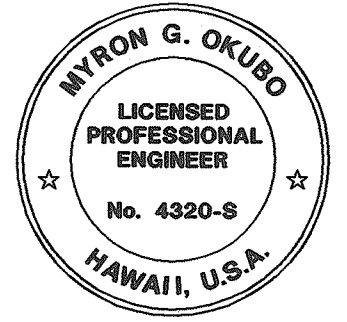
SOIL DESIGN VALUES:  
Assumed Allowable Foundation Pressure 2000 psf  
Assumed Lateral Bearing Pressure 200 #/sf/ft

- REINFORCEMENT:
- The minimum clear cover measured from the surface of the Concrete to the face of any Reinforcing Bar shall be as follows, except as otherwise noted.  
A. Concrete exposed to Earth or Weather: Primary Reinforcement 2", Stirrup 1 1/2"  
B. Concrete cast against and permanently exposed to Earth = 3"
  - Reinforcing shall be detailed in accordance with the latest editions of CRSI "Placing Reinforcing Bars" and ACI "Manual of Standard Practice" and the "Detailing Manual" unless noted otherwise.
  - All dimensions relating to Reinforcing (e.g. spacing of bars) are to center of bars unless noted otherwise.

CONSTRUCTION METHODS:

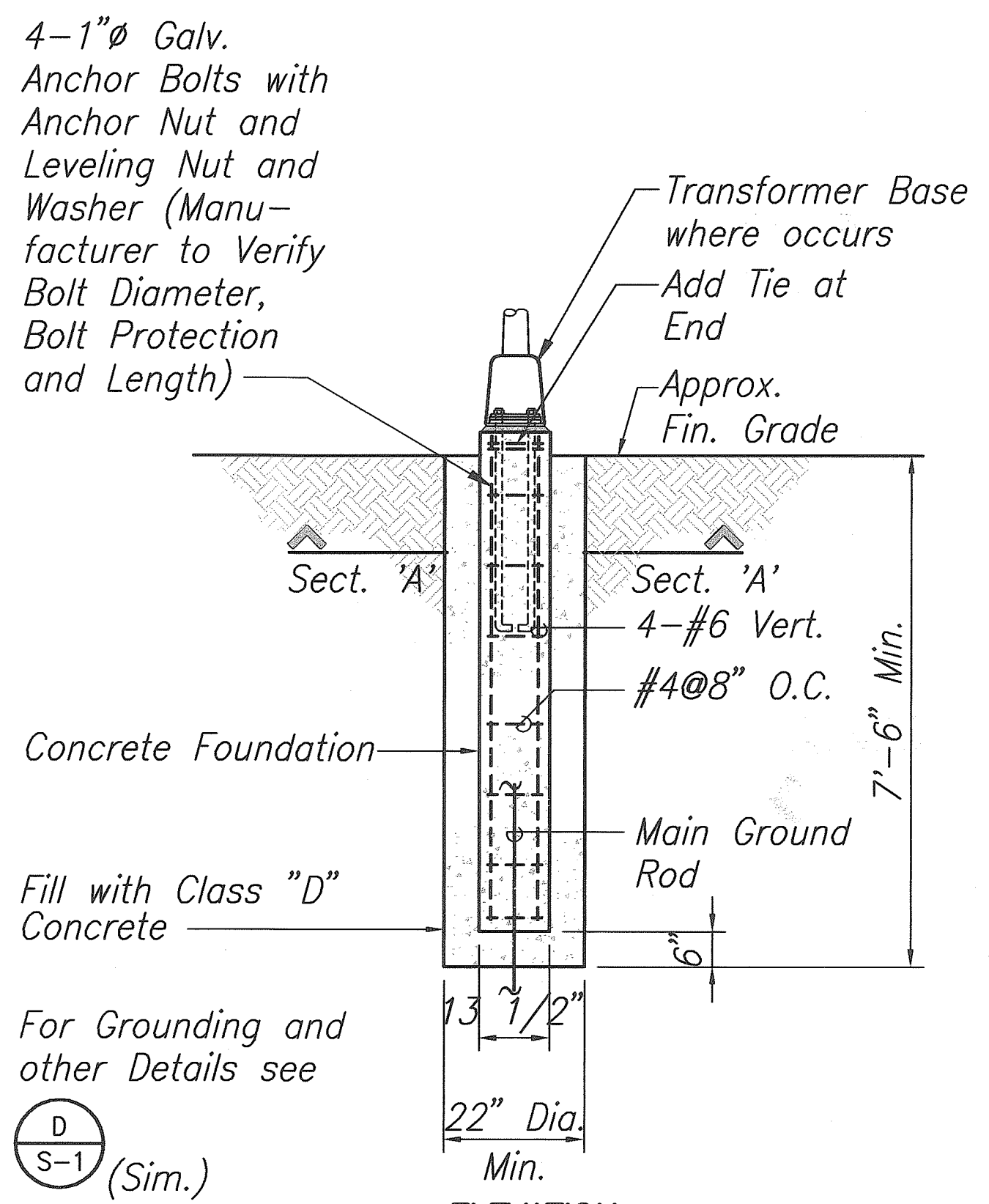
- Hawaii Standard Specifications for Road, Bridge, and Public Works Construction 1994 and Special Provisions.
- Except as otherwise noted, all vertical dimensions are measured plumb.
- Pole Foundations shall be excavated and poured neat against undisturbed ground. In case of over excavation, space between foundation and ground shall be filled with Concrete at the Contractors' expense and as directed by the Engineer. The minimum quality of the fill Concrete shall be Class D.

NOTE:  
1. Details Represent Typical Components with Various Mast Arm Configurations.

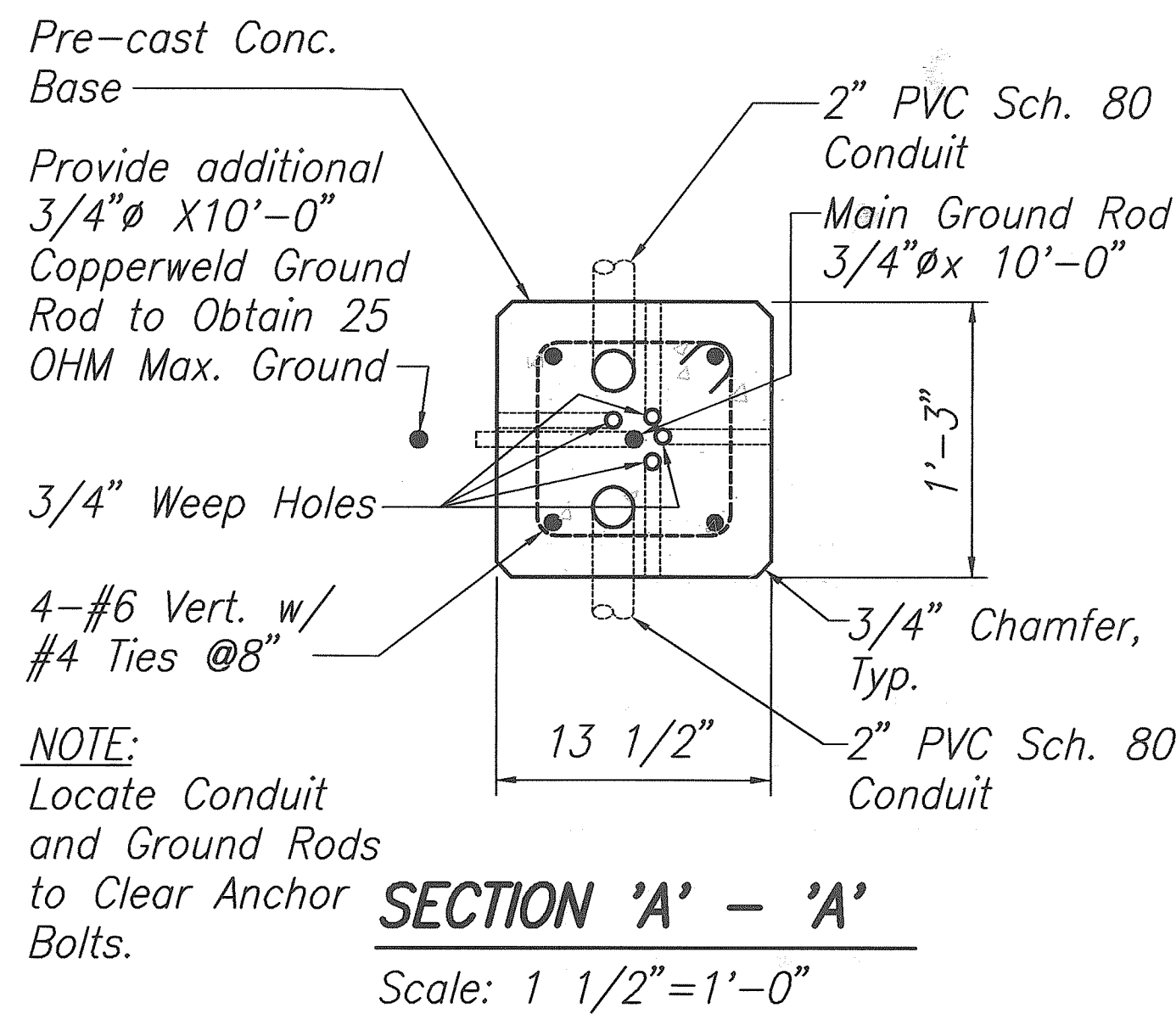


THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION  
*Myron G. Okubo*

| DATE                                                                                                                                                                                                                                                                        | REVISION |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|
|                                                                                                                                                                                                                                                                             |          |
| STATE OF HAWAII<br>DEPARTMENT OF TRANSPORTATION<br>HIGHWAYS DIVISION<br><b>POLE MOUNTING DETAILS</b><br>HIGHWAY LIGHTING SAFETY IMPROVEMENTS<br>PALI HIGHWAY<br>VICINITY OF WYLLIE STREET<br>TO JACK LANE<br>PROJECT NO. STP-0300(66)<br>Scale: As Noted Date: July 9, 1999 |          |
| SHEET No. S-9 OF SHEETS                                                                                                                                                                                                                                                     |          |

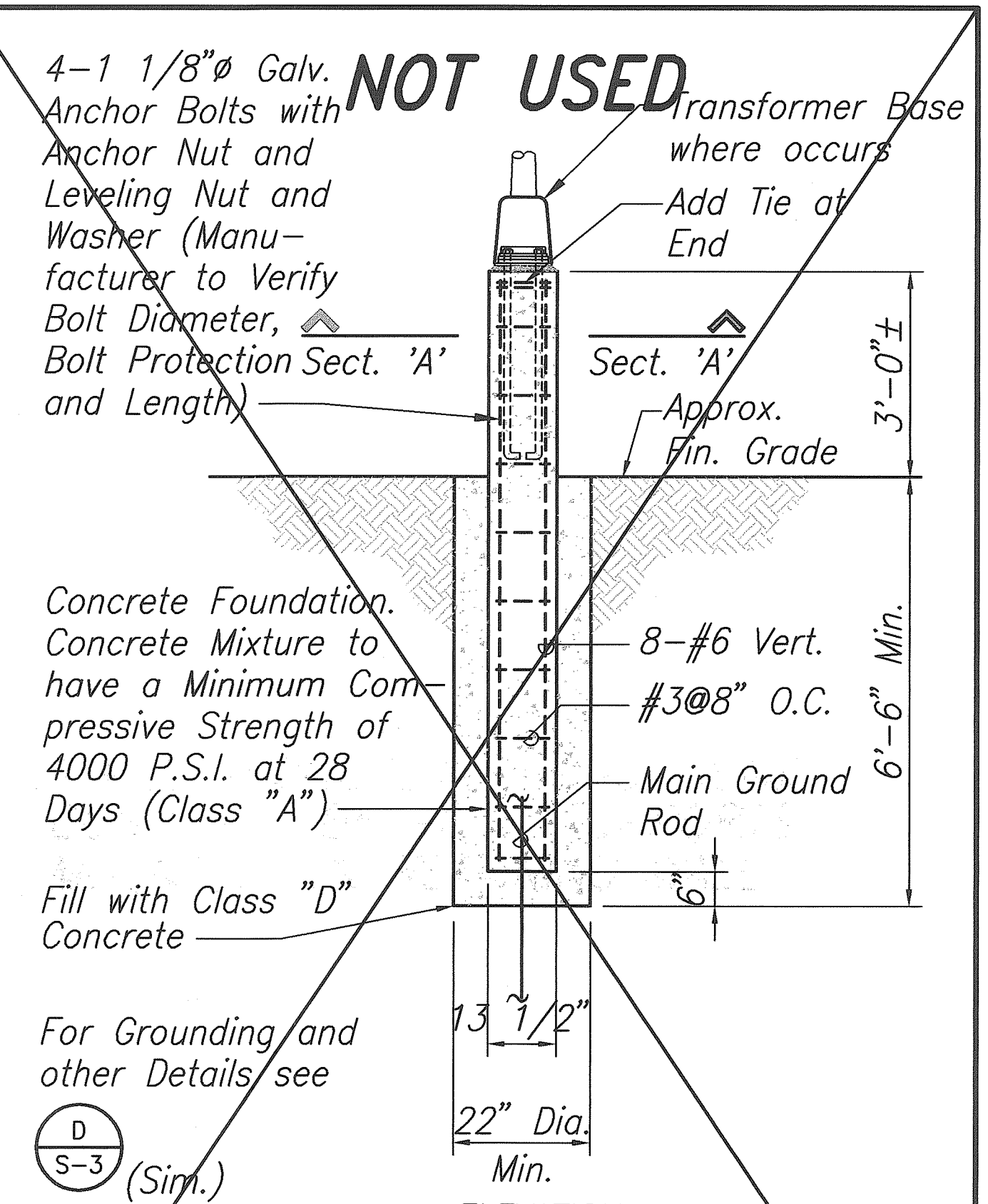


**A CONCRETE BASE AND POLE \*  
ANCHOR DETAILS FOR DOUBLE  
ARM LIGHT STANDARD**  
Scale: 1/2"=1'-0" (Pole Shown Mounted on Pedestal)

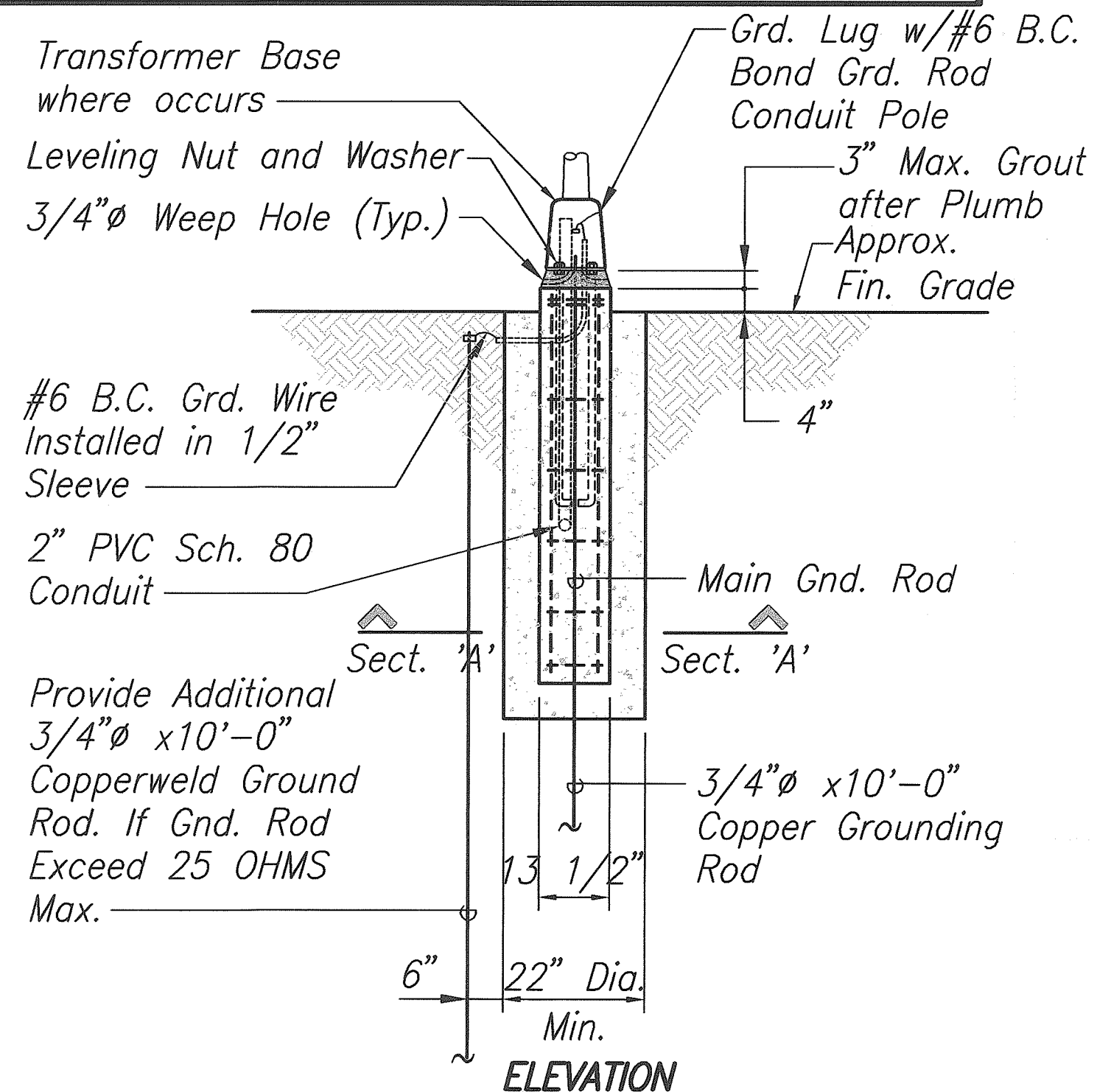


**SECTION 'A' - 'A'**  
Scale: 1 1/2"=1'-0"

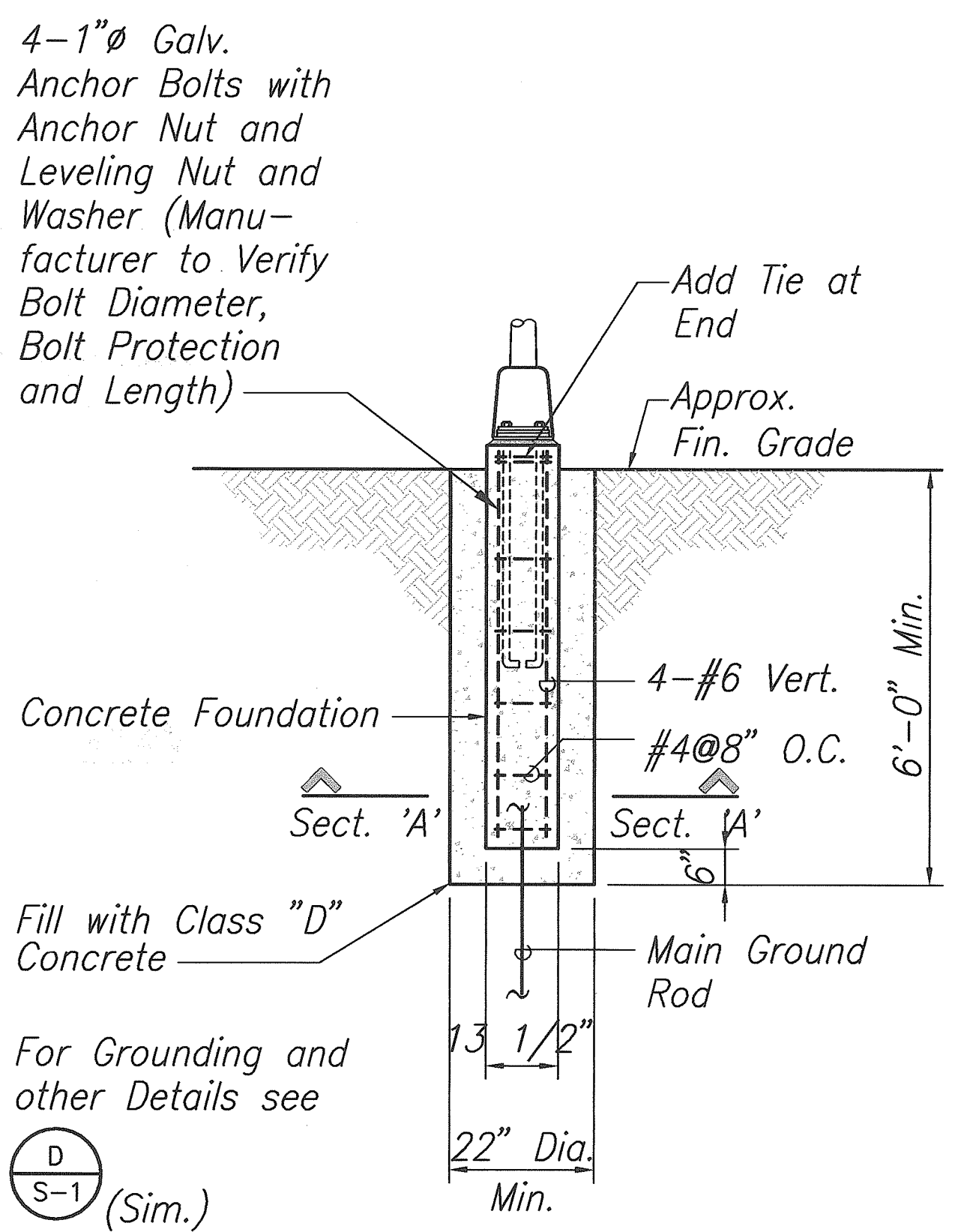
\* NOTE:  
Where Pole is Located in Median, install Guardrail and Posts in Accordance with Details on Standard Plan TE-54.



**B CONCRETE BASE AND POLE \*  
ANCHOR DETAILS FOR SINGLE  
ARM LIGHT STANDARD**  
Scale: 1/2"=1'-0" (Pole Mounted on Pedestal)



**D TYPICAL CONCRETE BASE AND POLE  
MOUNTING DETAIL TRANSFORMER BASE**  
Scale: 1/2"=1'-0"



**C CONCRETE BASE AND POLE  
ANCHOR DETAILS FOR SINGLE  
ARM LIGHT STANDARD**  
Scale: 1/2"=1'-0"

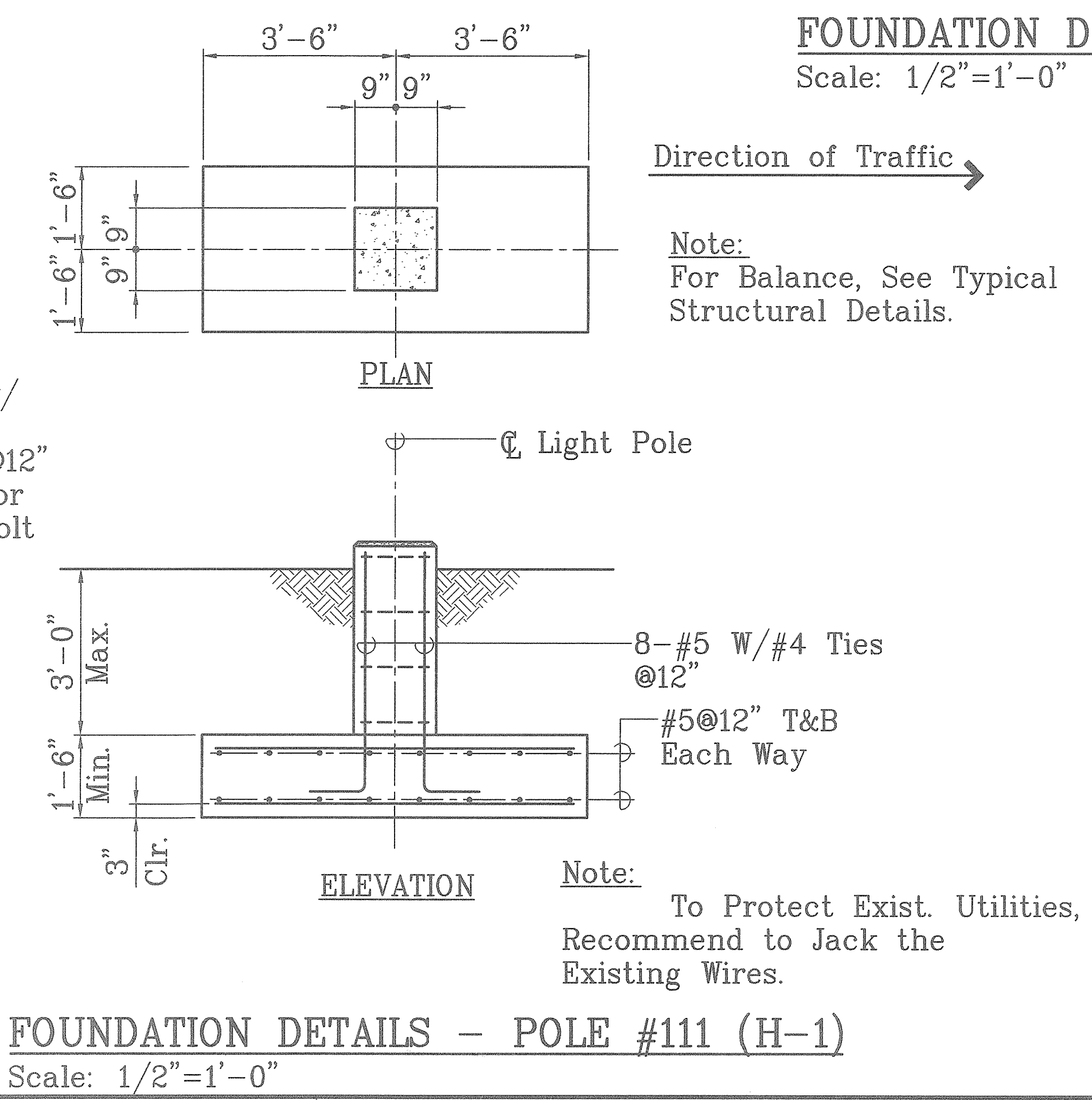
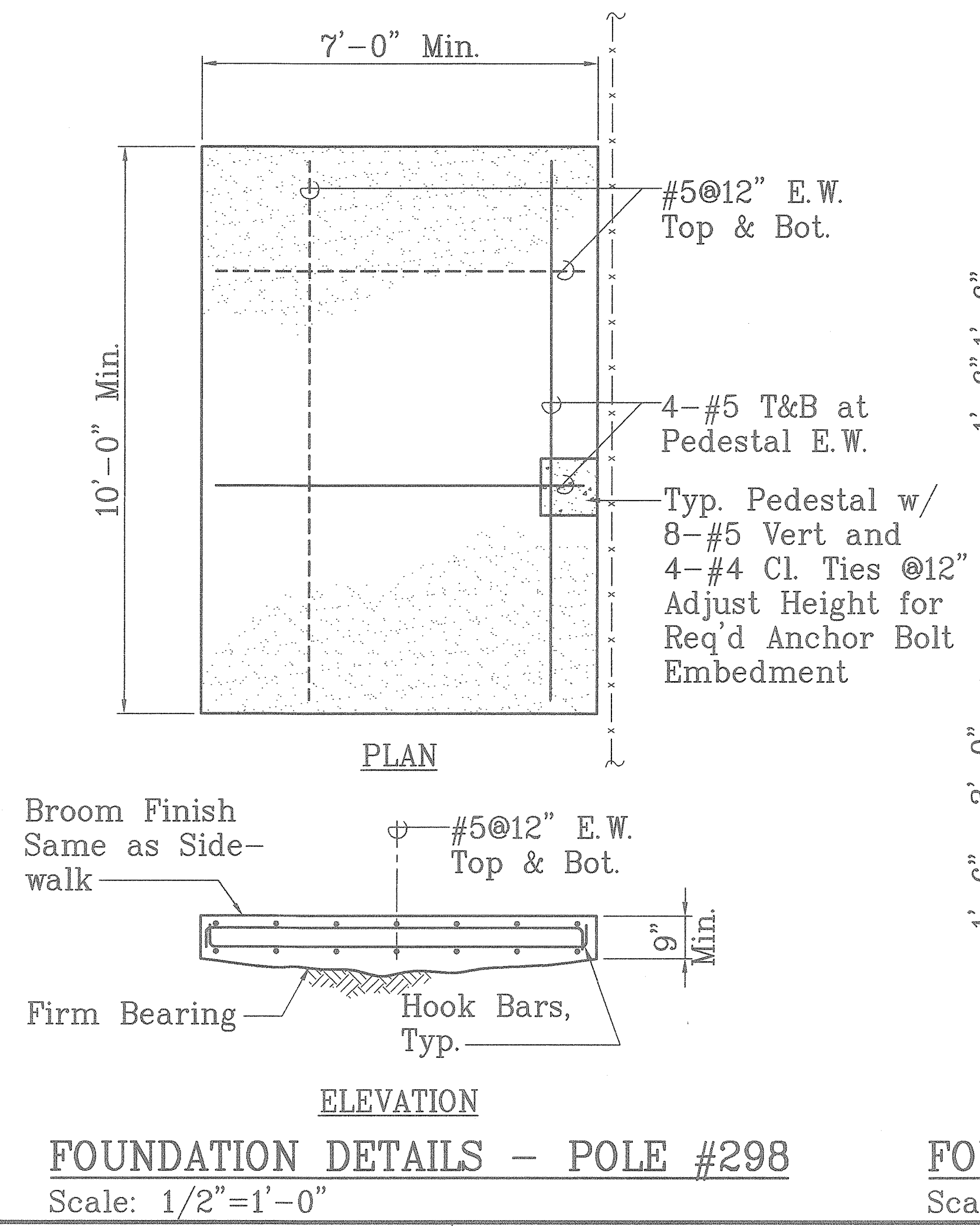
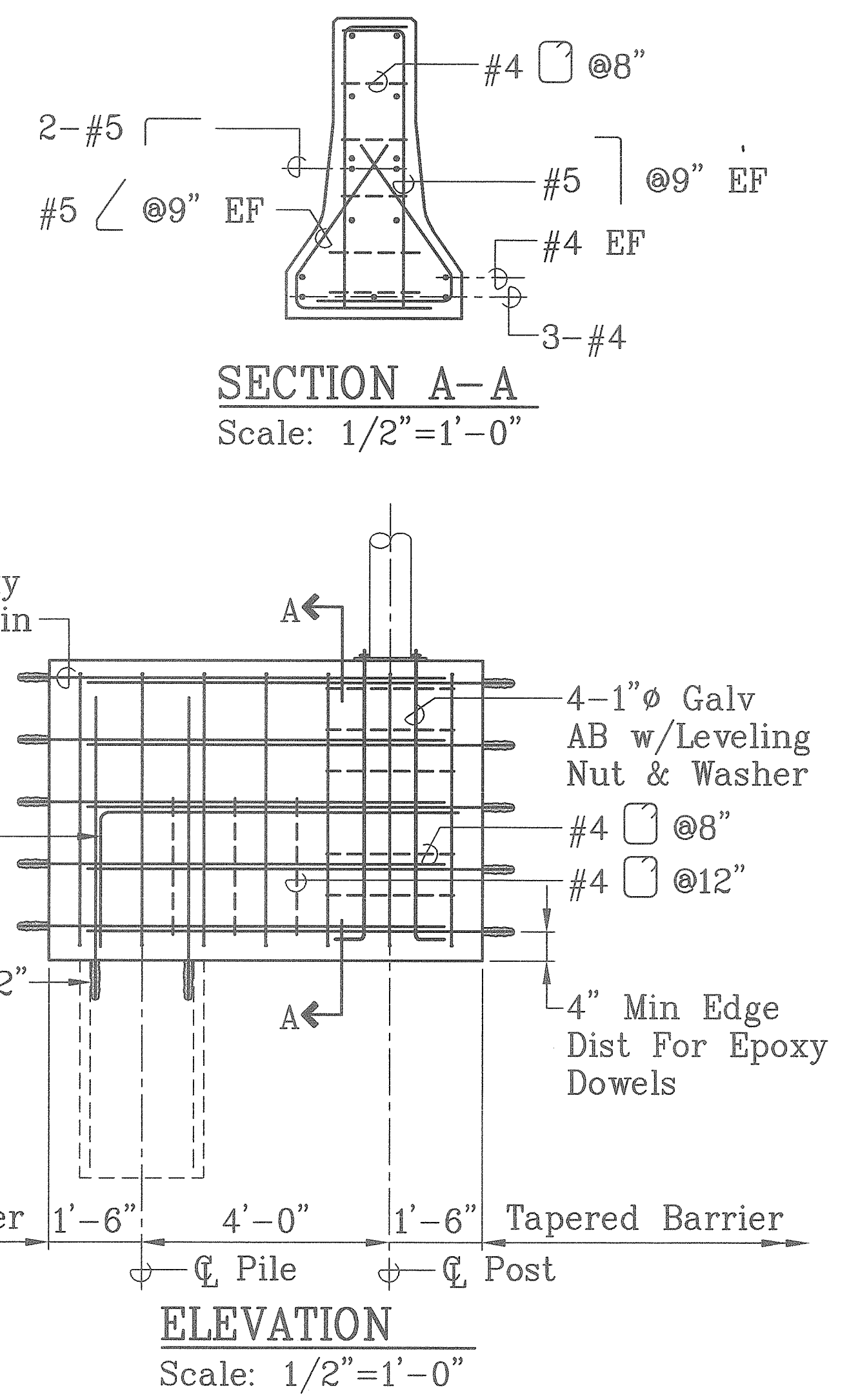
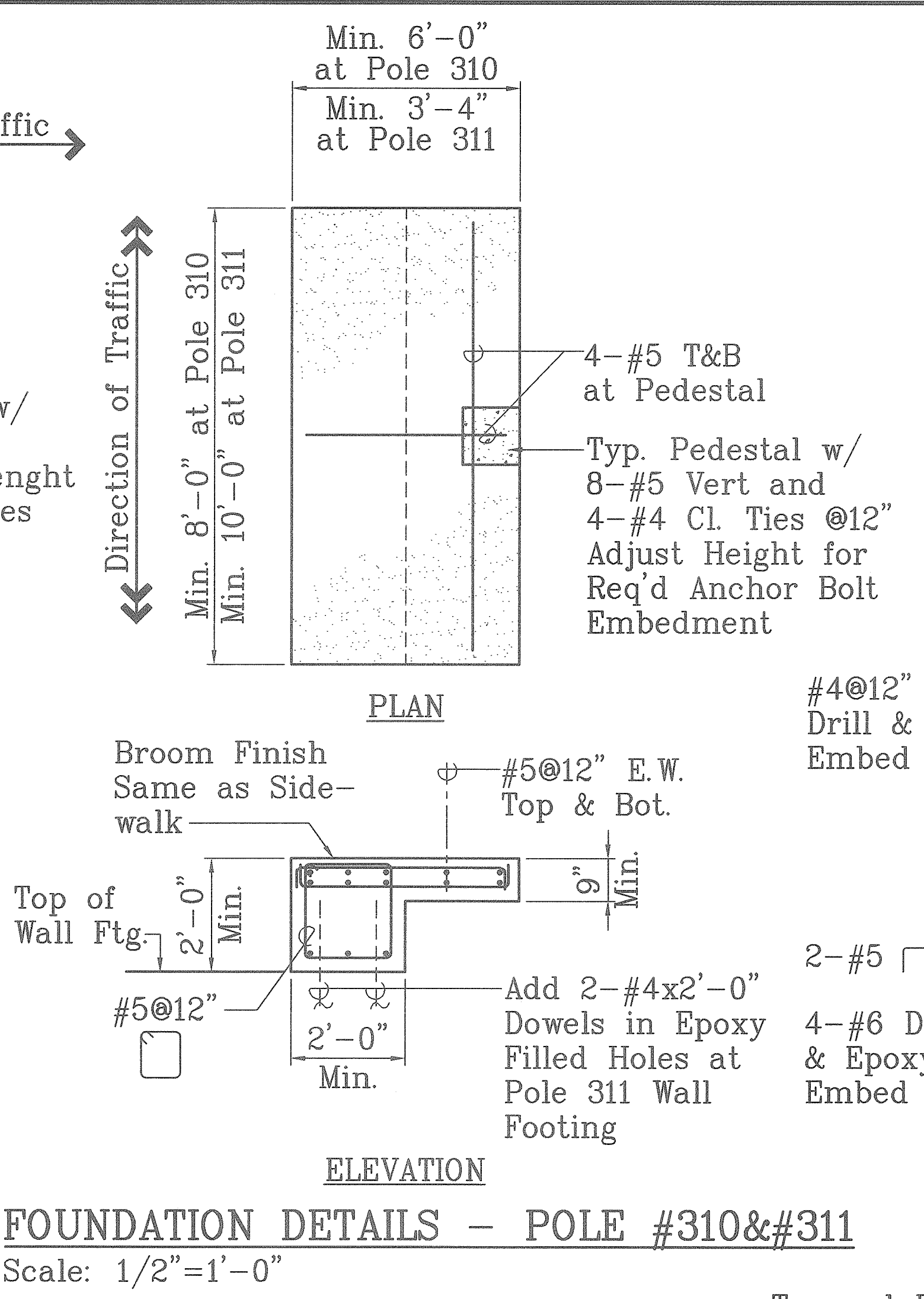
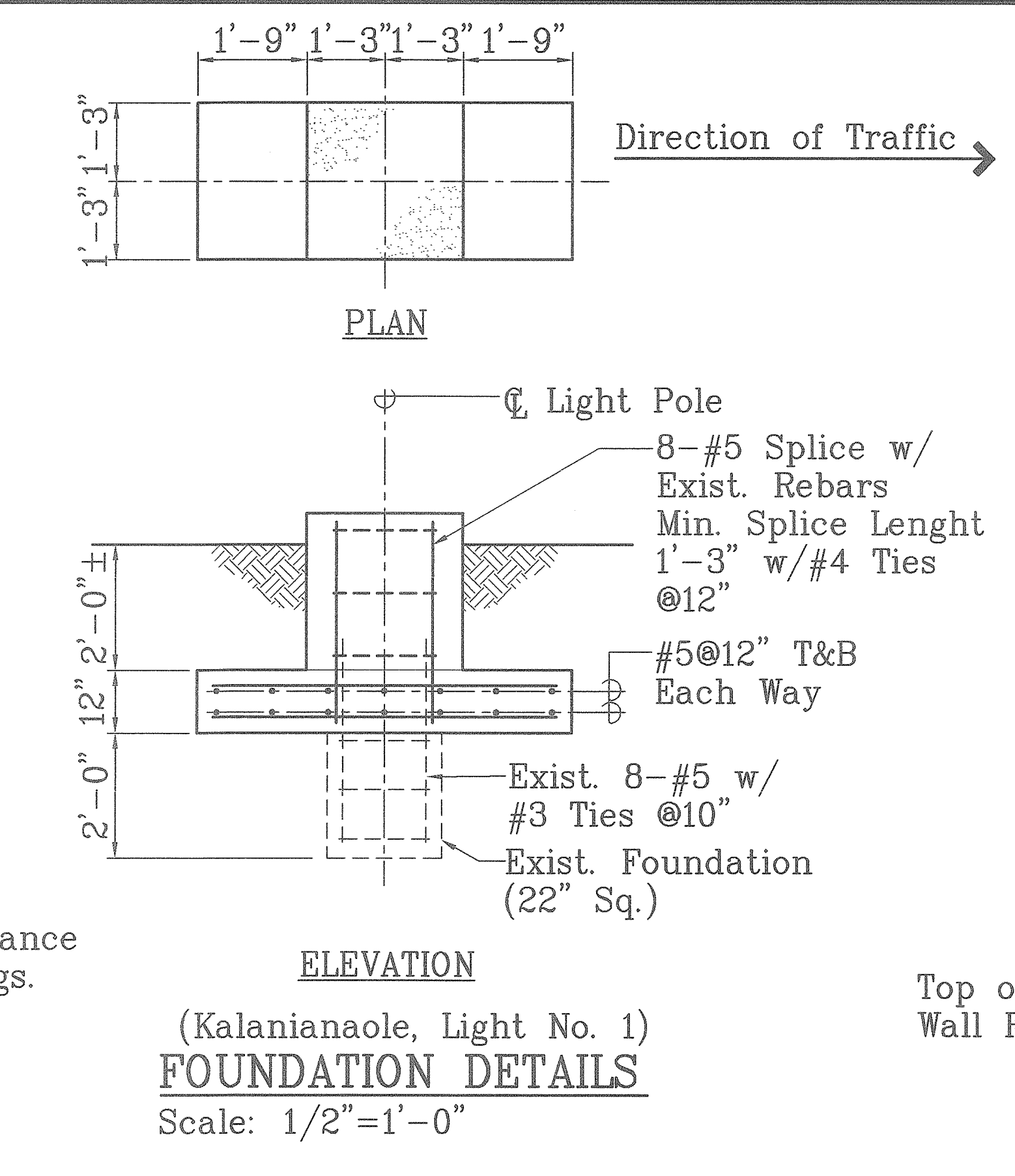
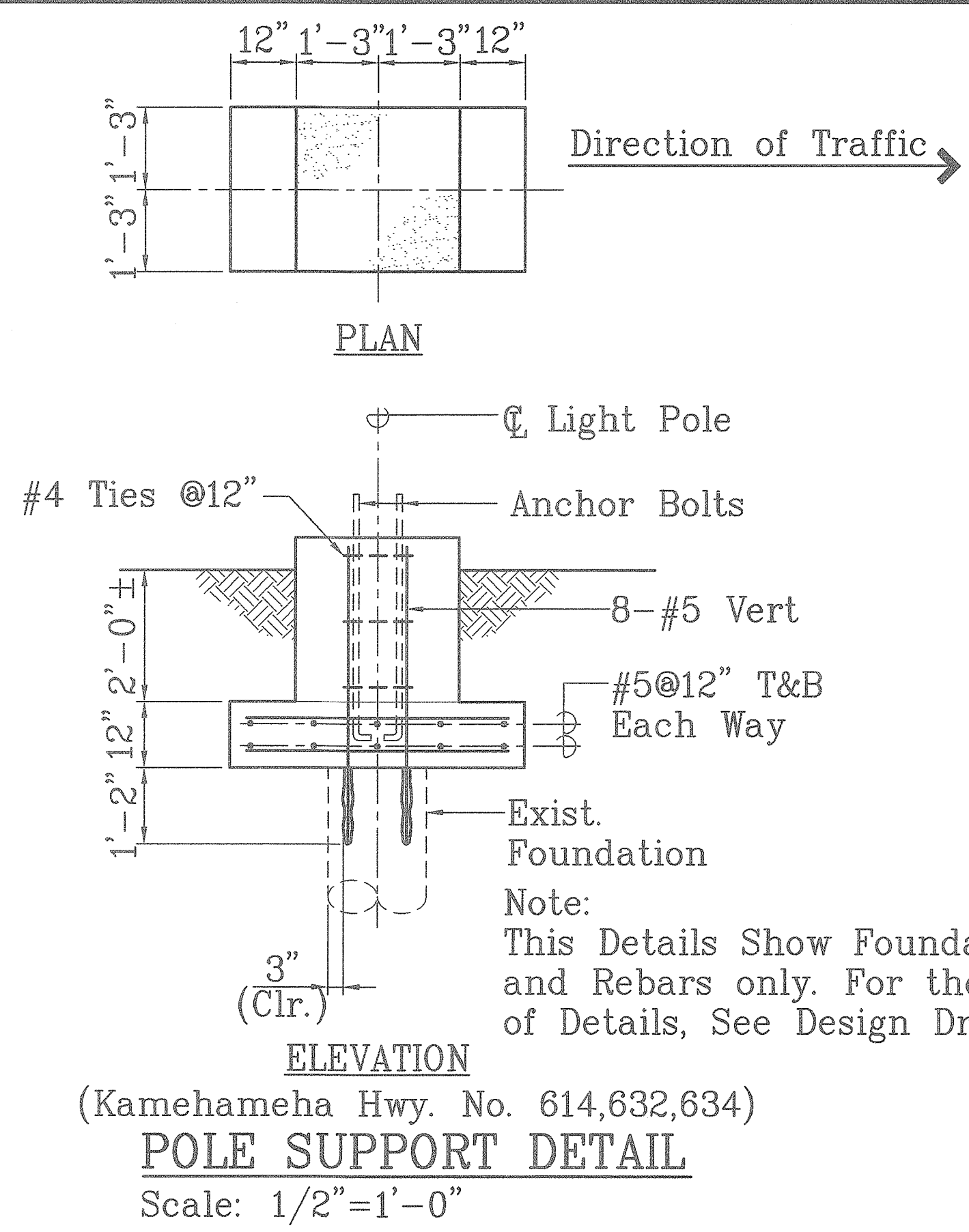
|                   |      |
|-------------------|------|
| SURVEY PLOTTED BY | DATE |
| DRAWN BY          |      |
| TRACED BY         |      |
| CHECKED BY        |      |
| QUANTITIES BY     |      |
| NO.               |      |

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"AS-BUILT"



| FED. ROAD DIST. NO. | STATE | FED. AID PROJ. NO. | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
|---------------------|-------|--------------------|-------------|-----------|--------------|
| HAWAII              | HAW.  | STP-0300(66)       | 1998        |           |              |



**LEGEND FOR AS-BUILT POSTINGS**

Structural Text for "As-Built" Posting

Note: This tracing prepared during "AS-BUILT" posting.



THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION

*Myron G. Okubo*

| DATE | REVISION                                                                                                                                                                                                                                                                                                                                     |
|------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|      | STATE OF HAWAII<br>DEPARTMENT OF TRANSPORTATION<br>HIGHWAYS DIVISION<br><b>REVISED DETAILS</b><br>HIGHWAY LIGHTING SAFETY IMPROVEMENTS<br>KAMEHAMEHA HIGHWAY VICINITY OF<br>LIKELIKE HIGHWAY/KANEOHE BAY DRIVE INTERSECTION<br>TO UALANI PLACE<br>PROJECT NO. STP-0300(66)<br>Scale: As Noted Date: July 9, 1999<br>SHEET NO. S-10 OF SHEETS |

|                   |      |
|-------------------|------|
| SURVEY PLOTTED BY | DATE |
| DRAWN BY          |      |
| TRACED BY         |      |
| DESIGNED BY       |      |
| QUANTITIES BY     |      |
| CHECKED BY        |      |
| ORIGINAL PLAN     |      |
| NOTEBOOK          |      |
| No.               |      |

"AS-BUILT"