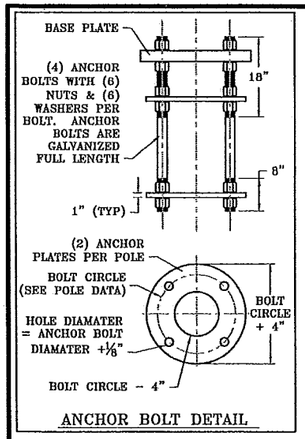
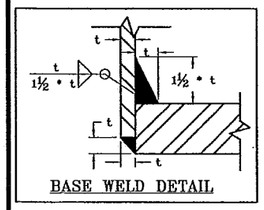
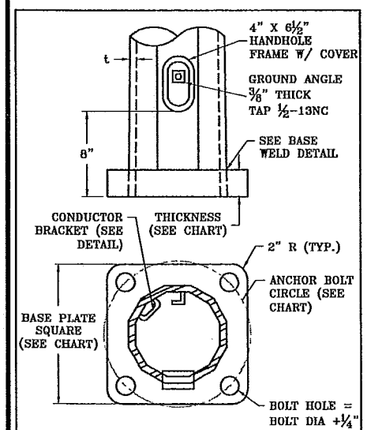


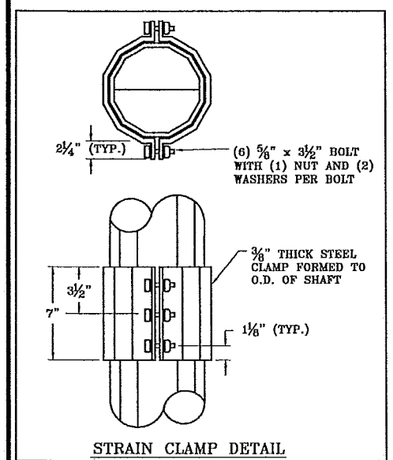

ANCHOR BOLT DETAIL



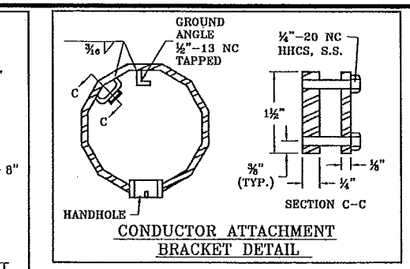

BASE WELD DETAIL



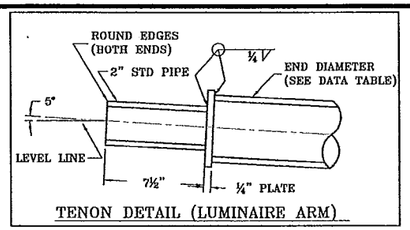

POLE BASE DETAIL



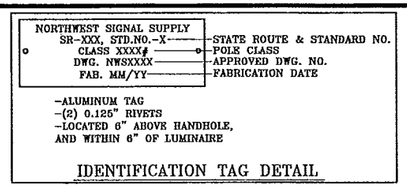

STRAIN CLAMP DETAIL



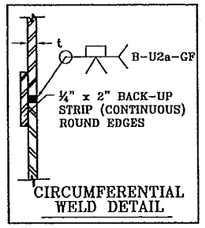

CONDUCTOR ATTACHMENT BRACKET DETAIL




TENON DETAIL (LUMINAIRE ARM)




IDENTIFICATION TAG DETAIL




CIRCUMFERENTIAL WELD DETAIL

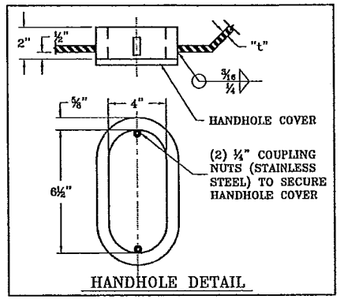
POLE DATA

| ITEM | POLE CLASS (RESULTANT HORIZONTAL TENSION) | | | | | | |
|---|---|---|---|---|---|---|---|
| | 1900# | 2700# | 3700# | 4800# | 5800# | 6300# | 7200# |
| POLE GAGE | .25 | .25 | .25 | .3125 | .3125 | .3125 | .3125 |
| BASE PLATE WIDTH | 15" | 15" | 17" | 18" | 18" | 20" | 20" |
| ANCHOR BOLT CIRCLE | 16" | 16" | 19" | 20" | 20" | 22" | 22" |
| POLE BASE DIA | 10" | 12" | 14" | 14" | 15" | 16" | 17" |
| BASE PLATE THICKNESS | 1 3/4" | 2" | 2 1/2" | 2 1/2" | 2 3/4" | 2 3/4" | 3" |
| ANCHOR BOLT SIZE | 1"x36" | 1 1/4"x60" | 1 3/8"x60" | 1 1/2"x60" | 1 1/2"x60" | 1 3/4"x66" | 1 3/4"x66" |

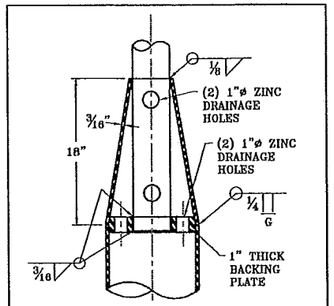
LUMINAIRE ARM DATA

| ARM LENGTH (FT) | ELBOW DIAMETER (IN)(1) | R (IN) | THICKNESS (IN) | B (IN) |
|---|---|---|---|---|
| 6 | 4 | 12 | .188 | 24 |
| 8 | 4 | 12 | .188 | 36 |
| 10 | 4 | 12 | .188 | 51 |
| 12 | 4 | 12 | .188 | 65 |
| 14 | 4 | 12 | .188 | 79 |
| 16 | 4 | 12 | .188 | 93 |

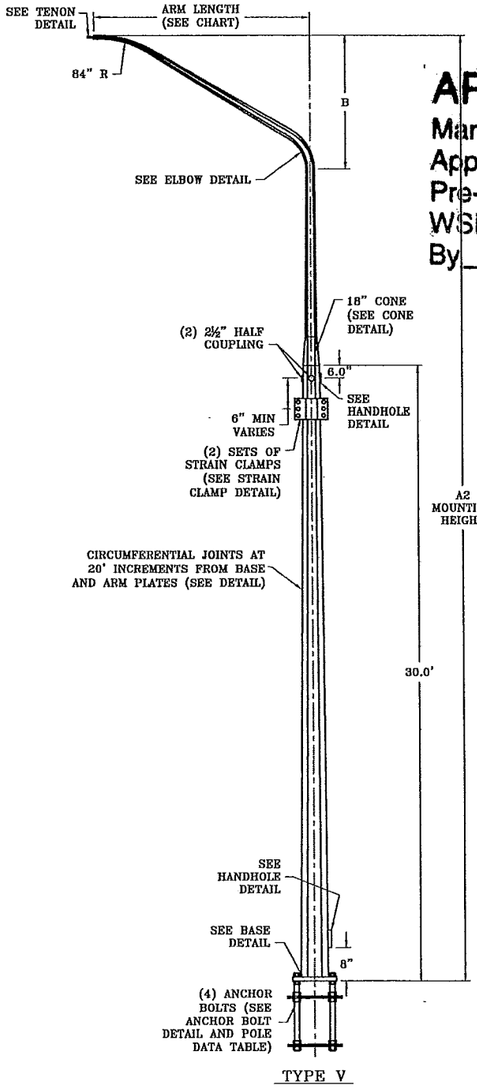
(1) ELBOWS TO BE MADE FROM STD PIPE



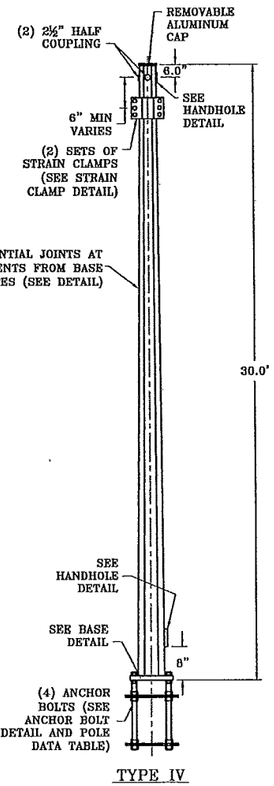

HANDHOLE DETAIL




CONE DETAIL




TYPE V




TYPE IV

POLE SCHEDULE

INTERSECTION:

| POLE # | CLASS | A2 | LUM. LEN. |
|---|---|---|---|
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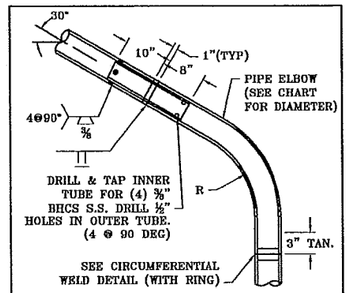
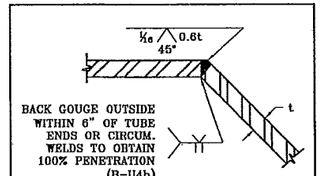



ELBOW DETAIL




LONGITUDINAL WELD DETAIL

TWO PER TUBE, @ 180 DEGREES

**APPROVED**
Manufacturer's Pole Plan
Approved For Listing As A
Pre-Approved Drawing
WSDOT Bridge & Structures Office
By GB Date 8/6/2008

EXPIRES: 4/28/10

NOTES:

DESIGN CRITERIA
2001 AASHTO STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES, AND TRAFFIC SIGNALS.
–90 MPH 3 SECOND GUST
–50 YEAR DESIGN LIFE/RECURRENCE INTERVAL

GENERAL
–POLE AND MAST ARMS SHALL BE DODECAGONAL IN CROSS SECTION. POLE SHAFT SHALL HAVE TAPER OF 0.14 IN/FT.
–FABRICATION SHALL CONFORM TO 2001 AASHTO STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES, AND TRAFFIC SIGNALS AND AWS D1.1 STRUCTURAL STEEL WELDING CODE.

MATERIALS
–ALL STEEL IN TUBES, BASE PLATES, FLANGE PLATES, GUSSET PLATES & HANDHOLE FRAMES SHALL CONFORM TO ASTM A572 GR50.
–ANCHOR BOLTS SHALL CONFORM TO ASTM F1554 GR 105, NUTS SHALL CONFORM TO ASTM A563 GR DH HEAVY HEX, WASHERS SHALL CONFORM TO ASTM F436 TYPE I.
–ANCHOR PLATE SHALL CONFORM TO ASTM A36.
–CONNECTION BOLTS SHALL CONFORM TO ASTM A325, NUTS SHALL CONFORM TO ASTM A563 GR DH HEAVY HEX, WASHERS SHALL CONFORM TO ASTM F436 TYPE I.
–GALVANIZING SHALL CONFORM TO ASTM A123 & A153.
–HANDHOLE COVERS SHALL CONFORM TO ASTM A1011 GR50.
–ALL PIPE TENONS AND WIRE GUIDES SHALL CONFORM TO ASTM A53 GR B.
–FASTENERS LESS THEN ½" IN DIAMETER SHALL BE STAINLESS STEEL OR BRASS.
–POLE CAPS SHALL BE CAST ALUMINUM.

| NO. | REVISION | DATE |
|---|---|---|
| 1 | NEW BOARDER, MINOR DESIGN CHANGES | 6/08 |
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**NORTHWEST SIGNAL SUPPLY, INC**
12965 SW Herman Rd. - Tualatin, OR 97062
PH: 503-635-4351, FX: 503-635-4341
www.nwsignal.com

WSDOT TYPE IV & V STRAIN POLE STANDARD WITH TYPE II LUMINAIRE ARM

| DESIGNED BY | DATE | CHECKED BY | DATE |
|---|---|---|---|
| D. EMSLIE | 6/18/08 | J. MEUSCH | 6/27/08 |

DRAWING NUMBER
NWS3525B
SHEET 1 OF 1
JOB NUMBER