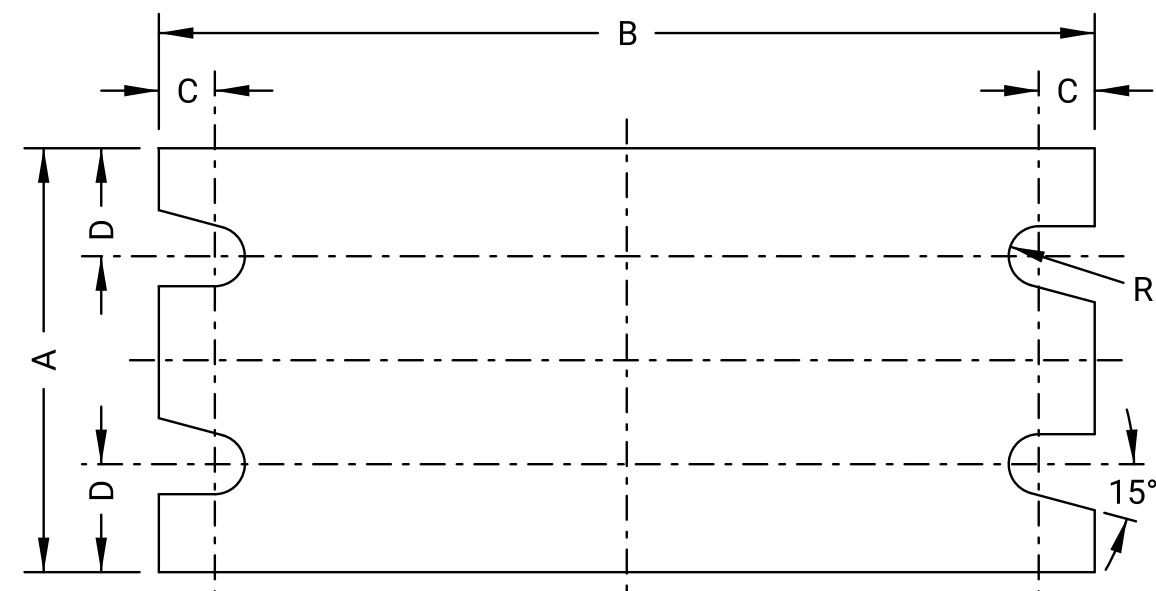
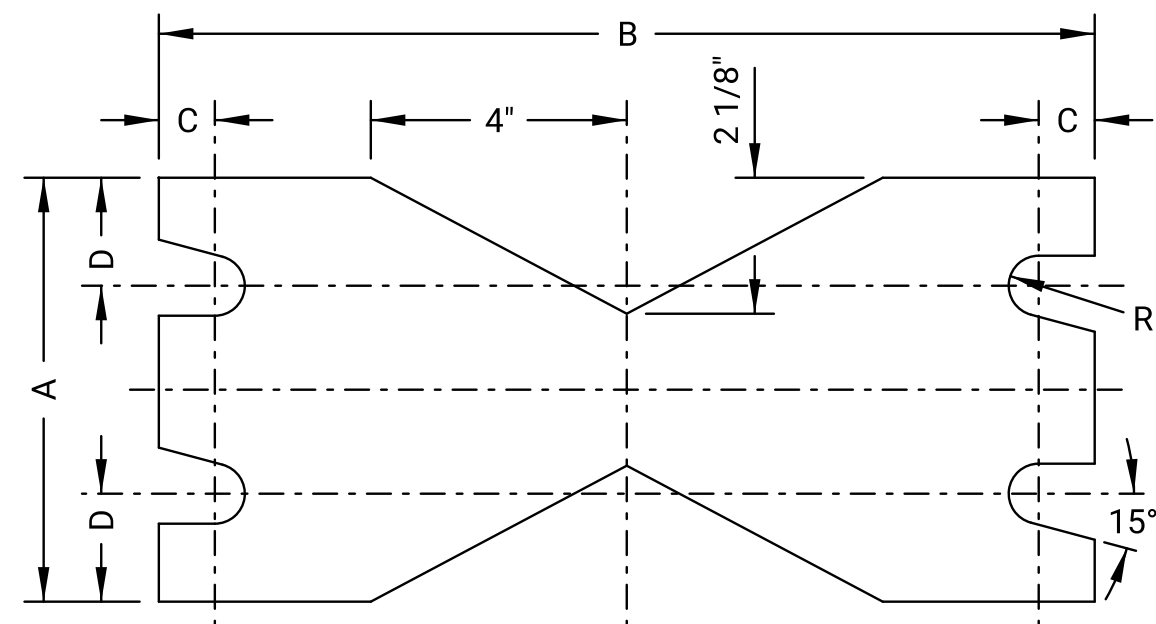


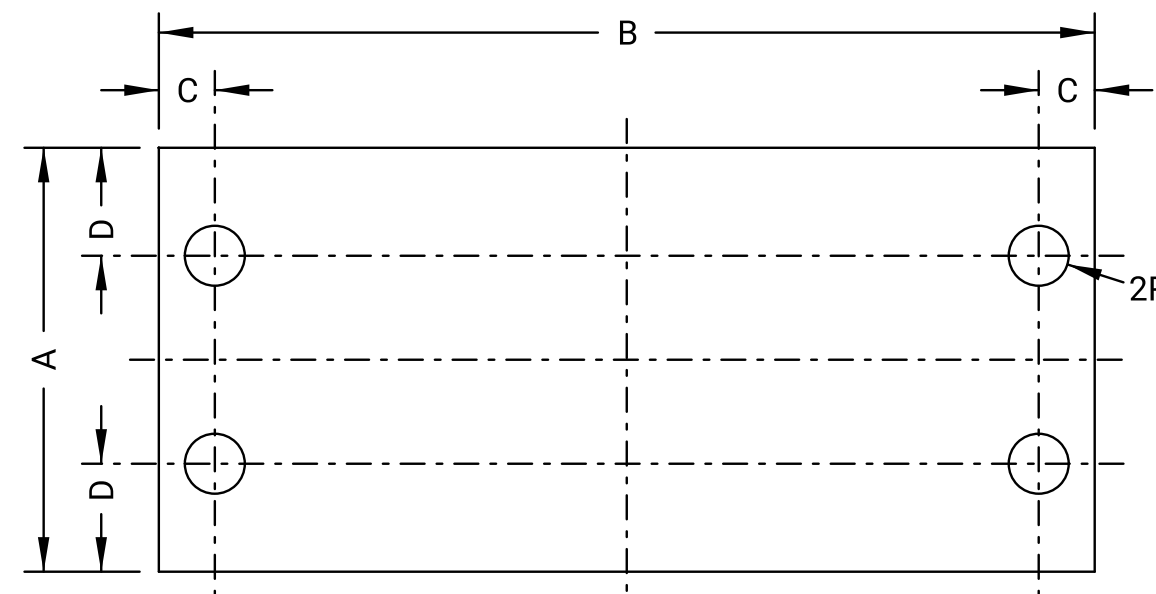
| STATE  | PROJECT NO. | YEAR | SHEET NO. | TOTAL SHEETS |
|--------|-------------|------|-----------|--------------|
| KANSAS | 0           | 0    | 0         | 0            |



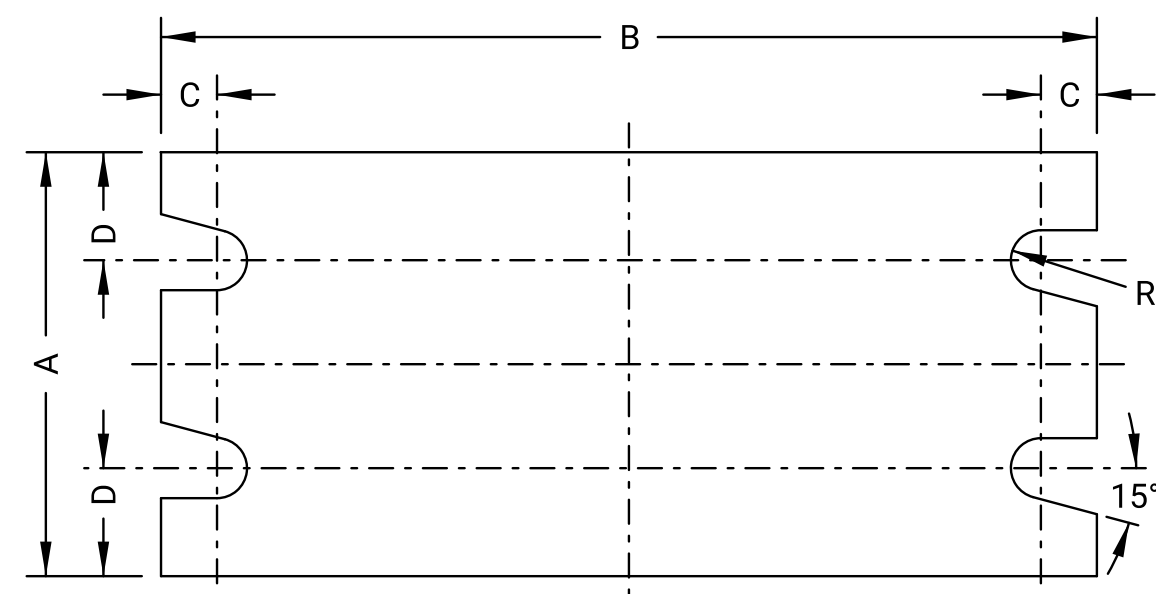
W6 X 9 and W10 X 12 POSTS



W10 X 22 POSTS  
SIGN POST BASE PLATE



BOLT RETAINER PLATE

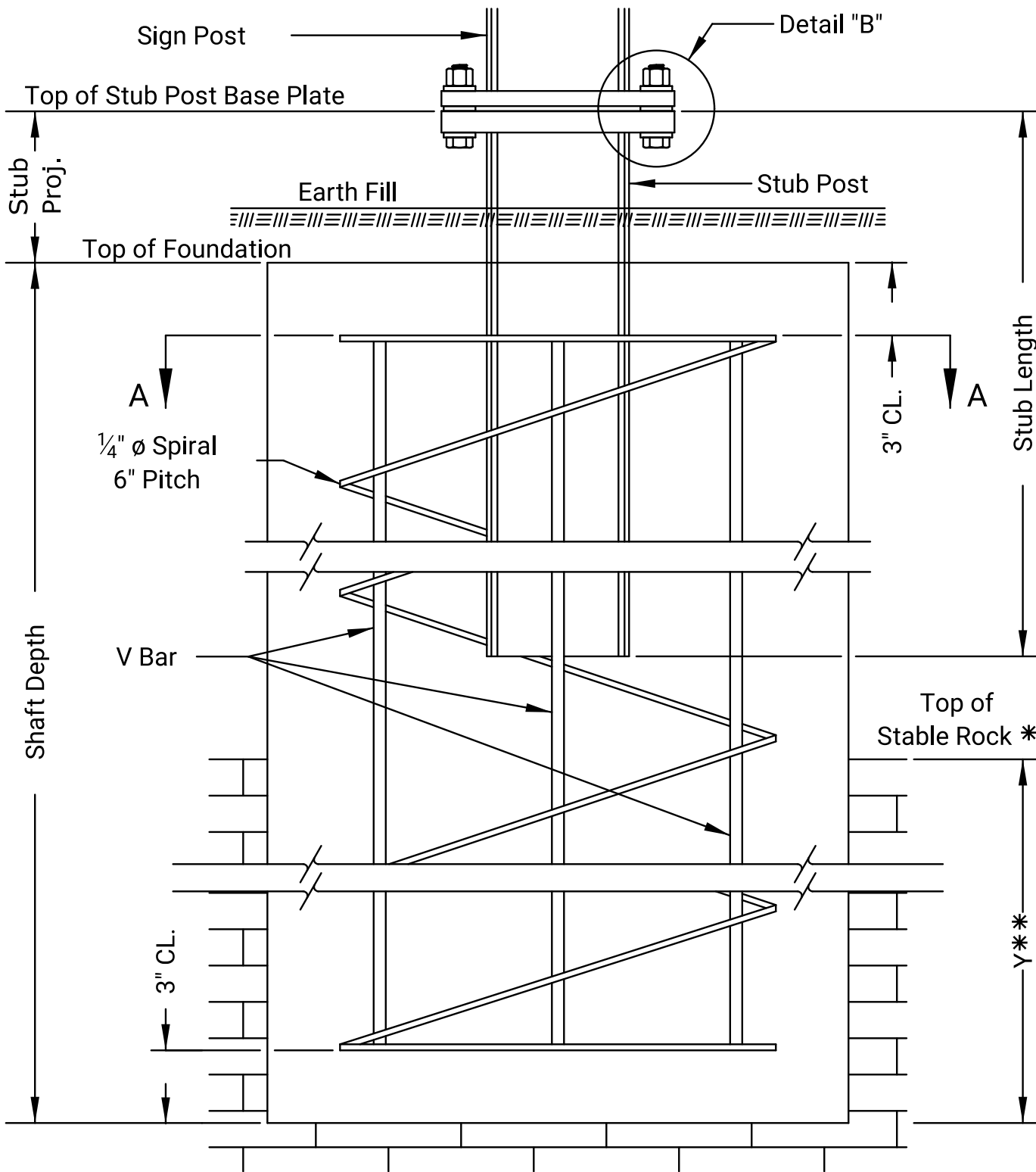


STUB POST BASE PLATE

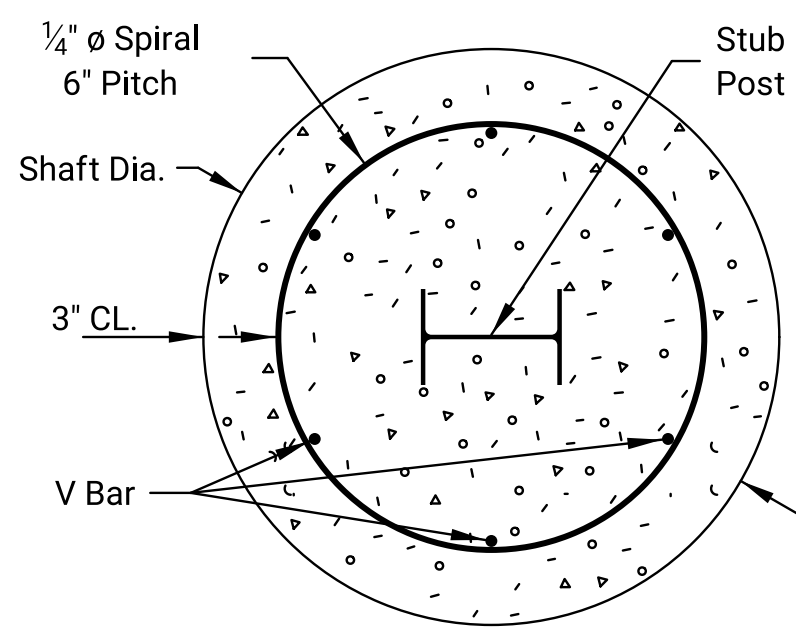
NOTE:  
The plates shown are for right shoulder or gore installations. The plate slot bevels are to be reversed for left shoulder installations. The sign post and stub post are to be centered on base plates.

| BASE CONNECTION DATA TABLE |               |                   |      |        |      |        |         |      |         |         |
|----------------------------|---------------|-------------------|------|--------|------|--------|---------|------|---------|---------|
| POST SIZE                  | BOLT SIZE     | TORQUE (IN. LBS.) | WS   | T1     | T2   | A      | B       | C    | D       | R       |
| W6 X 9                     | 5/8" X 3"     | 345               | 1/4" | 7/8"   | 5/8" | 4 5/8" | 9 5/8"  | 3/4" | 1 1/16" | 1 1/32" |
| W10 X 12                   | 5/8" X 3 1/4" | 345               | 1/4" | 1"     | 3/4" | 4 5/8" | 13 5/8" | 3/4" | 1 1/16" | 1 1/32" |
| W10 X 22                   | 7/8" X 4"     | 640               | 3/8" | 1 3/8" | 1"   | 6 5/8" | 14 5/8" | 7/8" | 1 1/16" | 15/32"  |

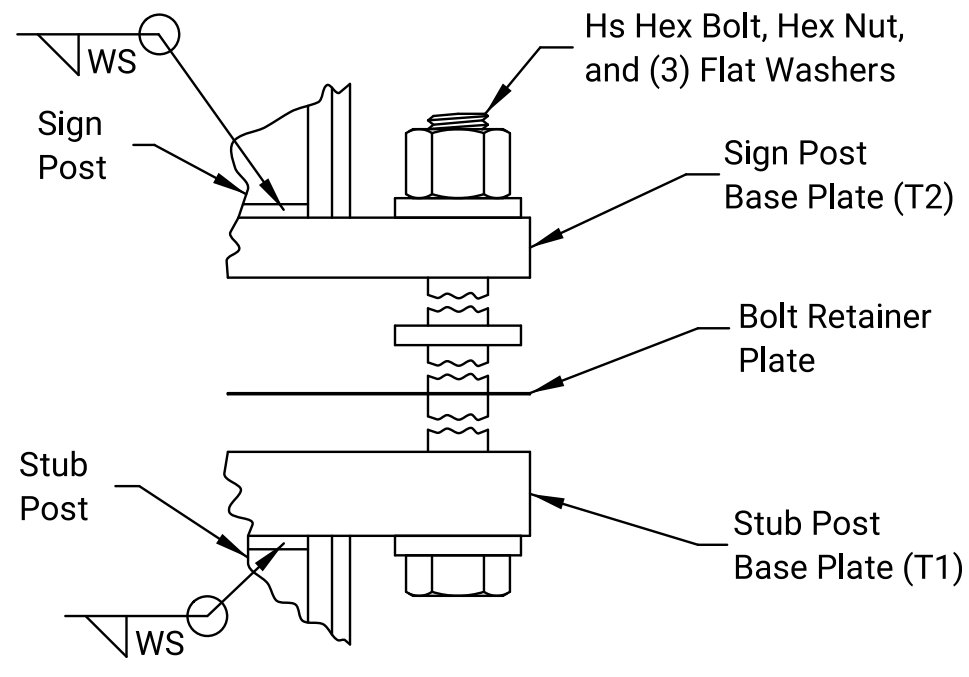
T1: Stub Post Base Plate Thickness  
T2: Sign Post Base Plate Thickness



SIDE ELEVATION



SECTION A-A



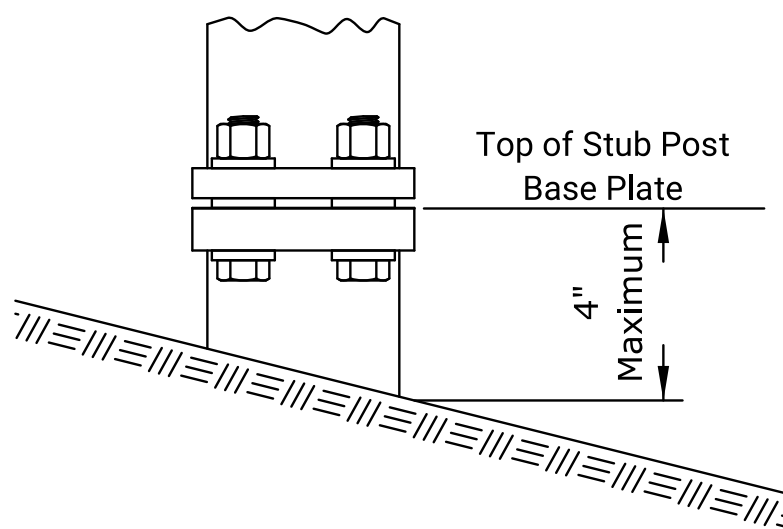
DETAIL "B"

GENERAL NOTES

All structural steel shall conform to ASTM A36 or A572 Grade 50. Alternates using ASTM A588 or A242 Grade 50 or other approved steels may be substituted for ASTM A572 steel. All structural steel shall be galvanized in accordance with ASTM A123 after fabrication. All high strength bolts, nuts, and washers shall conform to ASTM A325 and shall be coated in accordance with the coating specifications. The bolt retainer plate is to be 30 gauge sheet steel and galvanized in accordance with ASTM 123 after fabrication. If galvanized sheet steel is used, no other galvanization is required. Commercial grade concrete may be substituted for sign support footings.

PROCEDURE FOR ASSEMBLY OF BASE CONNECTION

- Assemble sign post base plate to stub post base plate with bolts, nuts, washers, and bolt retainer plate. Washers are to be installed on top of the sign post base plate, bottom of the stub post base plate, and between the sign post base plate and bolt retainer plate for each bolt.
- Plumb post by varying thickness of washers between sign post base plate and bolt retainer plate.  
NOTE: no washers or shims are to be placed between the bolt retainer plate and stub post base plate.
- Tighten all bolts the maximum possible with a 12 to 15 inch wrench to bed washers and shims and to clean bolt threads. Loosen each bolt in turn and retighten in a systematic order to the prescribed torque (see table). Do not over tighten.
- Burr threads at junction with nut using a center punch to prevent nut loosening.



FRONT ELEVATION

NOTE TO THE ENGINEER:  
The intent of the "AASHTO Roadside Design Guide" and these plans is to have a 4" or less projection above the finished ground line after impact.

All dimensions are in inches, unless otherwise noted.

|                                                           |          |                                       |        |            |                   |
|-----------------------------------------------------------|----------|---------------------------------------|--------|------------|-------------------|
|                                                           |          |                                       |        |            |                   |
| 01                                                        | 10-01-19 | Removed S3x5.7 post and revised notes |        |            | D.D.G. E.W.N.     |
| NO.                                                       | DATE     | REVISIONS                             |        |            | BY APPD           |
| KANSAS DEPARTMENT OF TRANSPORTATION                       |          |                                       |        |            |                   |
| DETAILS FOR<br>STEEL BEAM BREAKAWAY POSTS<br>SHEET 1 OF 2 |          |                                       |        |            |                   |
| TE463                                                     |          |                                       |        | 07-01-03   |                   |
| FHWA APPROVAL                                             |          | 10-01-19                              | APPD.  |            | Steven A. Buckley |
| DESIGNED                                                  | D.D.G.   | DETAILED                              | A.A.N. | QUANTITIES | TRACED            |
| DESIGN CK.                                                | S.A.B.   | DETAIL CK.                            | D.D.G. | QUAN.CK.   | TRACE CK.         |