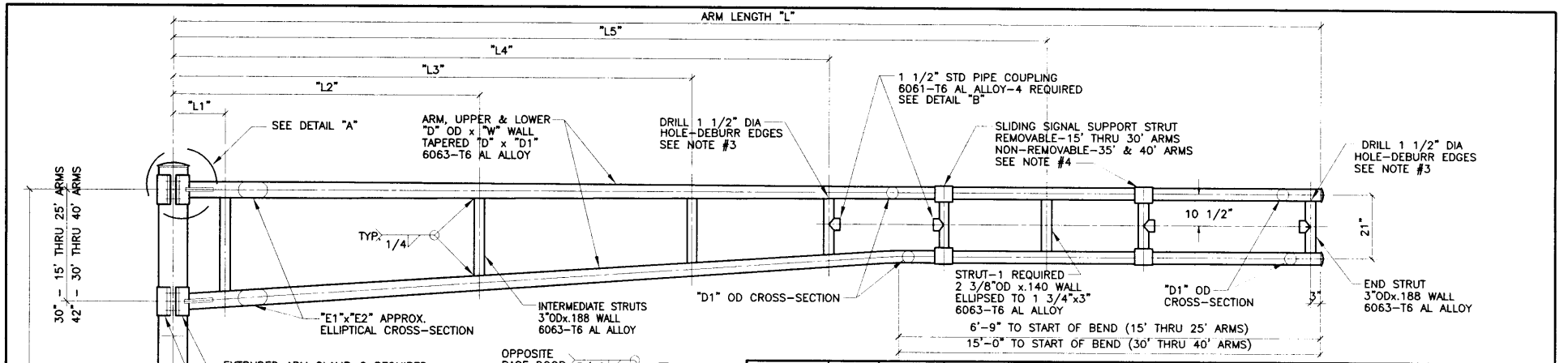


## NOTES

1. USE 4043 WELD WIRE.
2. 6063 ASSEMBLY .375 WALL OR LESS TO BE HEAT-TREATED TO T6 TEMPER AFTER WELDING.
3. INSTALL PULL WIRE THRU TOP ARM BEFORE WELDING STRUT.
4. INSTALL SLIDING SIGNAL STRUTS BEFORE WELDING FIXED STRUTS.
5. FOLLOWING MOUNTING HARDWARE SUPPLIED FOR EACH TRAFFIC SIGNAL:
   (2) ALUM SERRATED LOCK RINGS FOR 1 1/2" PIPE COUPLING
   (2) 1 1/2" STD PIPE CAST ALUM CHASE NIPPLES

| ARM DRAWING NUMBER | ARM LENGTH "L" | TROMBONE ARM SIZE "D"x"W" | TROMBONE ARM TAPER "D"x"D1" | TROMBONE ARM ELLIPSE "E1"x"D2" | STRUT SPACING "L1" | "L2" | "L3" | "L4" | "L5" | SHAFT SIZE "S"ODx"T"WALL | SHAFT TAPER "S"x"S1" |
|---|---|---|---|---|---|---|---|---|---|---|---|
| G-103004-1 | 15'-0" | 4"x.156" | 4"x3" | 4 3/4"x3" | ---- | 3'-3" | 3'-3" | ---- | ---- | 10"ODx.219"WALL | 10"x8" |
| G-103004-2 | 20'-0" | 5"x.156" | 5"x3" | 6 3/8"x3" | 1'-6" | 10'-6" | ---- | ---- | ---- | 10"ODx.219"WALL | 10"x8" |
| G-103004-3 | 25'-0" | 5"x.156" | 5"x3" | 6 3/8"x3" | 1'-6" | 10'-6" | 15'-0" | ---- | ---- | 10"ODx.219"WALL | 10"x8" |
| G-103004-4 | 30'-0" | 6"x.188" | 6"x3" | 7 5/8"x3 1/2" | 1'-6" | 10'-6" | ---- | 13'-0" | 20'-6" | 12"ODx.312"WALL | 12"x10" |
| G-103004-5 | 35'-0" | 7"x.188" | 7"x3 1/2" | 9 1/4"x3 3/4" | 1'-6" | 10'-6" | ---- | 17'-8" | 25'-3" | 12"ODx.312"WALL | 12"x10" |
| G-103004-6 | 40'-0" | 7"x.219" | 7"x4" | 9 1/8"x4" | 1'-6" | 10'-6" | 17'-11" | 22'-8" | 30'-3" | 12"ODx.312"WALL | 12"x10" |

| ARM LENGTH | ELLIPSE CROSS-SECTION | CLAMP DETAIL | DIA | "T" | "W" | "D" | "N" |
|---|---|---|---|---|---|---|---|
| 15'-0" | 4 3/4"x3" | "A1" | 8" | 1 1/2" | 5/16" | 5/8" | 4" |
| 20'-0" | 6 3/8"x3" | "A2" | 8" | 3" | 5/16" | 5/8" | 4" |
| 25'-0" | 6 3/8"x3" | "A2" | 8" | 3" | 5/16" | 5/8" | 4" |
| 30'-0" | 7 5/8"x3 1/2" | "A2" | 10" | 3" | 5/16" | 5/8" | 6" |
| 35'-0" | 9 1/4"x3 3/4" | "A2" | 10" | 2 1/2" | 5/16" | 5/8" | 6" |
| 40'-0" | 9 1/8"x4" | "A2" | 10" | 2 1/2" | 3/8" | 5/8" | 6" |

| SHAFT SIZE | SHOE BASE WELDS "TW" | "BW" | SHOE BASE TO TRANSFORMER BASE HEX HEAD CONNECTING BOLTS |
|---|---|---|---|
| 15'-0" | 5/16" | 7/32" | 1 1/4"-7NC-2 x 4 1/2" LONG |
| 20'-0" | 5/16" | 5/16" | 1 1/4"-7NC-2 x 5 1/2" LONG |

| REVISIONS | NM APWA |
|---|---|
| | TRAFFIC |
| | TRAFFIC SIGNAL MASTARM DETAILS, ALUMINUM |
| | DWG. 2561 FEB. 2006 |