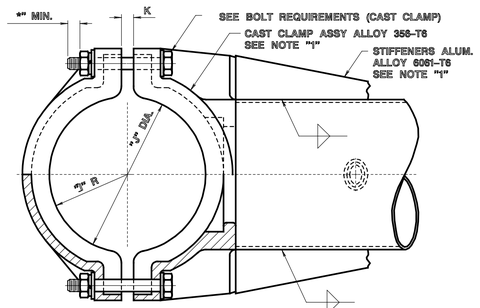
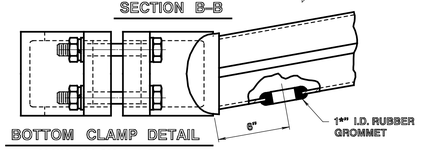
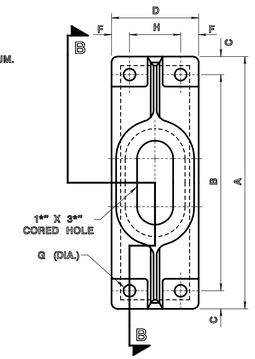


SECTION B–B



BOTTOM CLAMP DETAIL

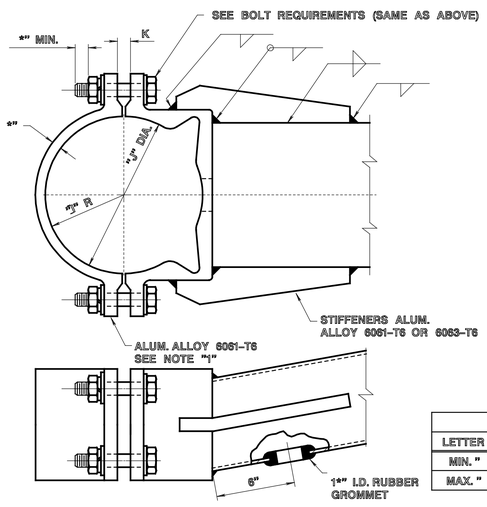
ALUM. ALLOY 356-T6
MIN. DRAFT WHERE REQUIRED

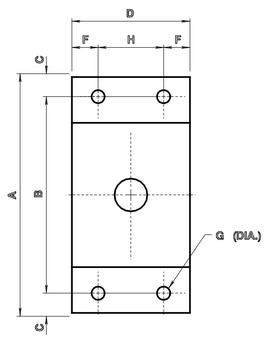


CAST CLAMP

BOLT REQUIREMENTS

8 – *" ø STN. STL. HEX HD. BOLTS, ASTM A193 GRADE B8
16 – *" ø STN. STL. FLAT WASHERS
8 – *" ø STN. STL. LOCK WASHERS
8 – *" ø STN. STL. HEX NUTS



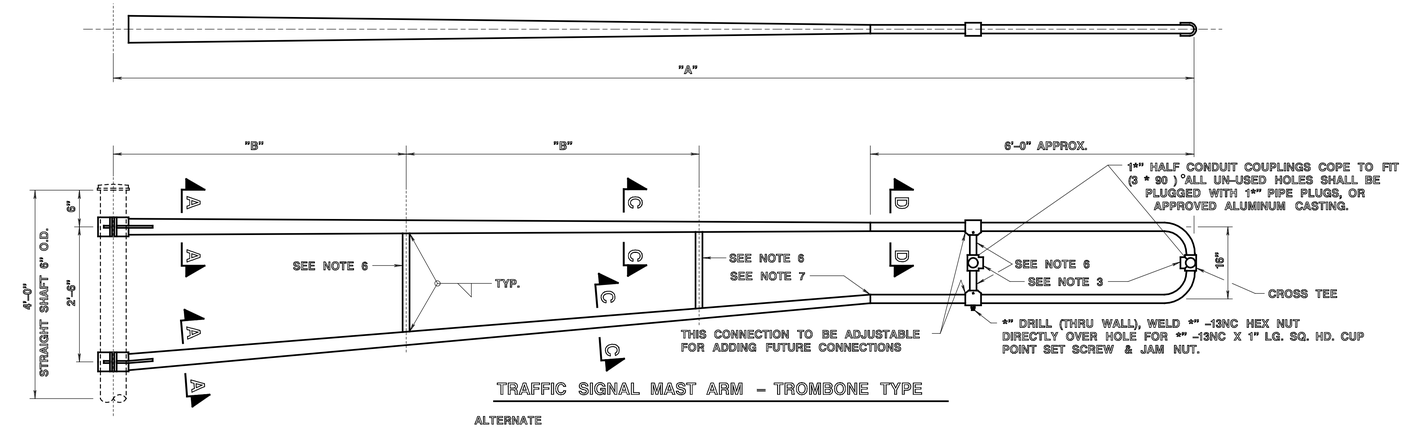


ALTERNATE EXTRUDED CLAMP

BOLT REQUIREMENTS
SAME AS CAST CLAMP

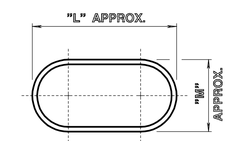
DIMENSION CHART – CAST & EXTRUDED CLAMP

LETTER	A	B	C	D	E	F	G	H	J	J	K
MIN. "	9*	7*	*	4*	–	*	*	2*	3*	6*	*
MAX. "	10*	8*	*	5	–	1*	*	3	3*	6*	*

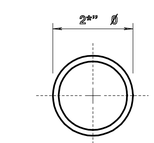


TRAFFIC SIGNAL MAST ARM – TROMBONE TYPE

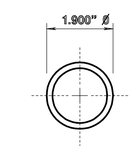
MINIMUM TUBING SIZE	"A"	"B"	NO. OF STRUTS	ALTERNATE NO. OF STRUTS	ALTERNATE "B"
3½" O.D. X .125" WALL 6063-T6 ALUM. ALLOY "L" = 4⅜" "M" = 2⅜"	8'-0"	2'-4"	1		
	10'-0"	3'-4*"	1	2	3'-6"
	12'-0"	4'-5"	1		
	14'-0"	5'-4*"	1		
5" O.D. X .125" WALL 6063-T6 ALUM. ALLOY "L" * 6*" "M" * 3"	15'-0"	5'-11"	1	3	4'-6"
	16'-0"	6'-5"	1		
	18'-0"	4'-10"	2		
	20'-0"	5'-5"	2	4	4'-4"
	25'-0"	6'-0"	3	5	4'-5"
6" O.D. X .250" WALL 6063-T6 ALUM. ALLOY "L" *9*" "M" * 4"	30'-0"	7'-7"	3		



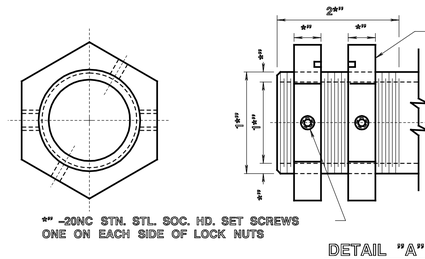
SECTION A–A

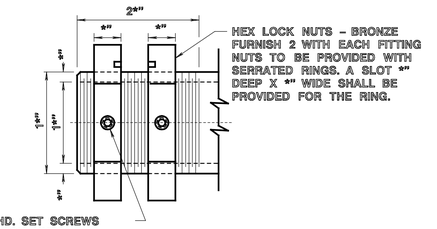


SECTION C–C

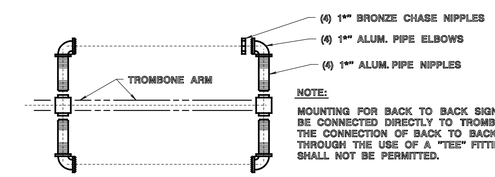


SECTION D–D





DETAIL "A"

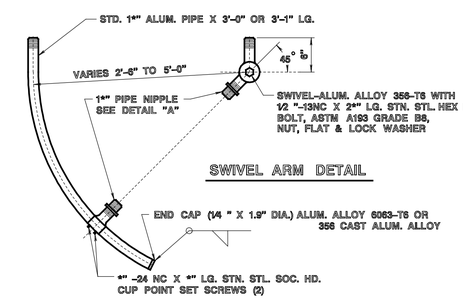


NOTE:

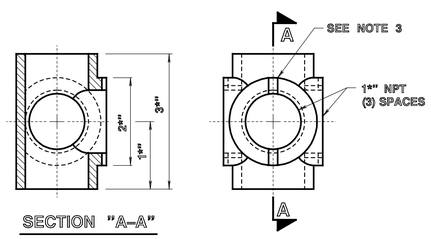
MOUNTING FOR BACK TO BACK SIGNALS SHALL BE CONNECTED DIRECTLY TO TROMBONE ARM. THE CONNECTION OF BACK TO BACK SIGNALS THROUGH THE USE OF A "TEE" FITTING SHALL NOT BE PERMITTED.

DETAIL FOR BACK TO BACK SIGNALS

TO BE INSTALLED WHERE REQUIRED



SWIVEL ARM DETAIL



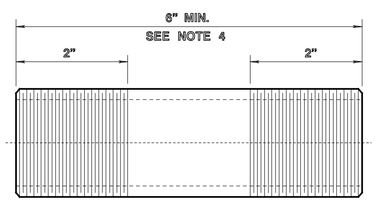
SECTION "A–A"

CROSS TEE

MATERIAL: ALUMINUM ALLOY 356-T6

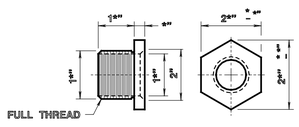
GENERAL NOTES

1. AN EXTRUDED CLAMP MAY BE SUPPLIED AS AN ALTERNATE TO THE CAST BAND INDICATED. GENERAL CONFIGURATION MUST BE SIMILAR AND STIFFENERS MUST BE INSTALLED AS INDICATED. STRENGTH OF ASSEMBLED ARM WITH EXTRUDED CLAMPS MUST EQUAL OR EXCEED CAST CLAMP CONSTRUCTION. EXTRUSION ALLOY 6005-T5 OR 6061-T6.
2. DESIGN AND MANUFACTURE ACCORDING TO THE 2001 AASHTO STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES AND TRAFFIC SIGNALS. UTILIZE APPENDIX C OF THE SPECIFICATIONS FOR IDENTIFICATION OF LOADING CRITERIA. DESIGN WIND SPEED IS 80 MPH. DESIGN FOR FATIGUE IS WAVED.
3. PROVIDE SLOTS OR SERRATIONS IN FACE OF ELBOW AND CROSS TEE. SLOTS TO BE *" DEEP X *" WIDE. SERRATIONS TO MATCH HOUSING TO ALLOW 5° ADJUSTMENT.
4. WHEN THE CONTRACT PLANS REQUIRE THE INSTALLATION OF OPTICALLY PROGRAMMED TRAFFIC SIGNALS THE 1*" NIPPLE SHALL BE MINIMUM OF 14" LONG.
5. MAST ARM WILL BE INSTALLED ON STANDARDS CONFORMING TO DRAWING NO. T-03 WITH TRANSFORMER BASE DRAWING NO. T-02.
6. 1*" SCHEDULE 40 PIPE ALUMINUM ALLOY 6063-T6.
7. JOINTS WILL BE PERMITTED TO PROVIDE THE NECESSARY TAPER. THE MANUFACTURER SHALL DETERMINE THE LOCATION. THE JOINT SHALL PROVIDE FOR A MINIMUM OVERLAP OF 6" AND SHALL NOT INTER-FEAR WITH THE ADJUSTABLE MEMBER.



STANDARD 1*" X 6" LG. ALUM. NIPPLE

ALLOY 6063-T6



STANDARD 1*" BRONZE CHASE NIPPLE

MATERIAL: BRONZE 85-5-5-5

SIGNAL MOUNTING DETAILS

MOUNTING HARDWARE

NEW JERSEY DEPARTMENT OF TRANSPORTATION

ELECTRICAL DETAILS

N.T.S.

TRAFFIC SIGNAL MAST ARM–TROMBONE
WITH CLAMP DETAIL FOR "T" & "C" STANDARDS

T–1207

REFERENCE

BDC07D-03