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ATTACHMENT A, PAGE 1/2

- 1. EXCEPT FOR POLES AND MAST ARMS, ONLY USE TUBES TO SUPPORT SIGNS NOUNTED ON ONE POST.
- 2. ATTACH ALL SIGNS, FRAMED AND UNFRAMED TO THEIR SUPPORTS WITH ZINC PLATED 3/8" BOLTS, EXCEPT ATTACH UNFRAMED SIGNS TO PERFORATED TUBES WITH ACCESSORY DRIVE RIVETS AND TO SADDLES WITH 5/16" BOLTS.
- 3. BOLT UNFRAMED SIGNS DIRECTLY TO TUBES, AND ATTACH THEM TO POLES AND MAST ARMS WITH TWO SADDLES.
- ATTACH BRACKETS TO POLES AND MAST ARMS WITH DOUBLE WRAPS OF 3/4" WIDE BY 0.020" THICK STAINLESS STEEL BANDING MATERIAL. TIGHTEN EACH BAND UNTIL 1T STOPS MOVING THROUGH THE BUCKLE.
- ATTACH FRAMED SIGNS TO POSTS WHEREVER THE FRAMES CROSS THE POSTS. AT EACH CROSSING, ATTACH THE SIGN USING TWO POST CLIPS ON W-SHAPE POSTS, A U-SHAPED BRACKET ON PIPES, AND A BRACKET WITH SQUARE CORNERS
- 6. THE TUBE BRACKETS USED ON EVEN INCH SIZE TUBES WAY ALSO BE USED ON TUBES 1/2" SMALLER IN SIZE.
- ONLY USE THE SPECIAL WINDBEAM BOLTS TO ATTACH SIGNS FRAMED WITH THE WINDBEAM FRAMING WATERIAL.
- 8. ATTACH FRAMED SIGNS TO POLES AND WAST ARMS USING POLE PLATES INSTALLED ACCORDING TO STANDARD DRAWING
- FOR ROUTE MARKER TREES, CUT PERFORATED TUBES TO ENSURE TIGHT FITTING JOINTS. ASSEMBLE THE PIECES WITH ACCESSORY ELL-SHAPED ANGLE BRACKETS.
- INSTALL THE TOP EDGE OF SIGNS 1" ABOVE THE TOPS OF POSTS, EXCEPT FOR THE D3-1 STREET NAME SIGNS.
- 11. INSTALL THE TOP EDGE OF SIGNS 3" BELOW THE TOP OF POST. WHENEVER THEY ARE MOUNTED BELOW SIGNS SECURED BY POST TOP MOUNTING BRACKETS.
- 12. THE BRACKET DETAILS SHOWN INDICATE GENERAL DESIGNS ONLY. DESIGNS MAY VARY BY MANUFACTURER.
- 13. INSTALL WEATHER TIGHT CAPS ON ALL PIPE AND TUBE POSTS, EXCEPT PERFORATED TUBING.

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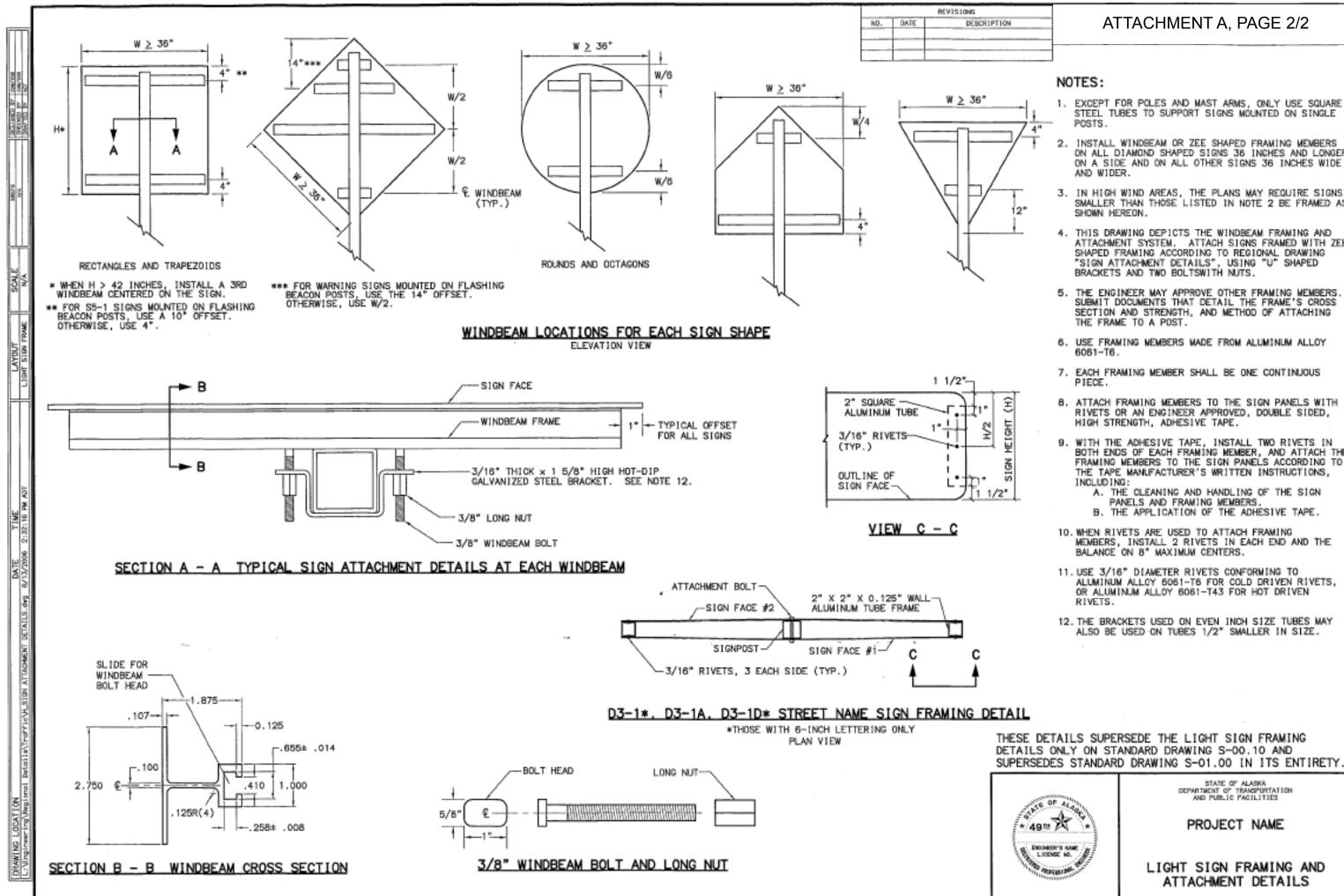
FASTENER SPECIFICATION TABLE					
FASTE	ENERS	ST	CEL	STAINLESS	STEEL
BOLTS		ASTM	A 307	ASTM F	593
NUTS E	EGULAR	ASTM	A 563	ASTM F	594
WASHER	S	ASTM	A 36	ASTM A	480
POST C	L1PS				

THIS DRAWING SUPERSEDES STANDARD DRAWING S-20.10

STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES

PROJECT NAME

SIGN ATTACHMENT DETAILS



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- ON ALL DIAMOND SHAPED SIGNS 36 INCHES AND LONGER ON A SIDE AND ON ALL OTHER SIGNS 36 INCHES WIDE
- SMALLER THAN THOSE LISTED IN NOTE 2 BE FRAMED AS
- ATTACHMENT SYSTEM. ATTACH SIGNS FRAMED WITH ZEE

- BOTH ENDS OF EACH FRAMING MEMBER, AND ATTACH THE FRAMING MEMBERS TO THE SIGN PANELS ACCORDING TO

SUPERSEDES STANDARD DRAWING S-01.00 IN ITS ENTIRETY