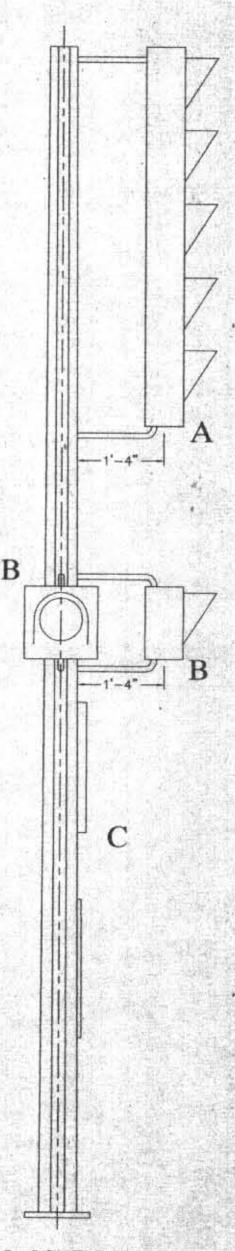
LOADING CONFIGURATION FRONT VIEW



LOADING CONFIGURATION SIDE VIEW

## TRAFFIC SIGNAL LIGHT DUTY STRAIGHT SHAFT DESIGN CRITERIA.

DESIGN AS PER THE 2001 4th EDITION OF THE AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS (AASHTO) STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES AND TRAFFIC SIGNALS. THE TRAFFIC SIGNAL LIGHT DUTY STRAIGHT SHAFT IS DESIGNED TO SUPPORT LOADS AS SHOWN ON THIS DRAWING AND DESCRIBED IN THE TECHNICAL SPECIFICATION FOR AASHTO GROUP LOAD COMBINATION I, II, AND III. FATIGUE STRESS RANGE FOR NATURAL WIND GUSTS AT CRITICAL FATIGUE LOCATIONS WERE CALCULATED FOR TRAFFIC SIGNAL FATIGUE CATEGORY III AS PER AASHTO TABLE 11-1. ALL RESULTS ARE LISTED IN DESIGN RESULT REPORT. THE DESIGN WIND PRESSURE Pz=0.00256KzGV2IrCd psf WHERE (0.00256 GV2)=25.6 psf, Kz AS PER AASHTO TABLE 3-5 EXCEPT NOT LESS THAN 1.0, Ir=1.0 FOR 50 YEAR DESIGN LIFE AND Cd AS PER AASHTO TABLE 3-6.

PROPERTIES OF SIGNALS AND SIGN FACE AREAS LISTED BELOW DO NOT INCLUDE DRAG COEFFICIENT

- A 5 SECTION 12" SIGNAL HEAD SIDE MOUNT FACE AREA 6.8 sq. ft. (14" x 70") END AREA 1.34 sq. ft. WEIGHT 80 lb.
- B TWO PEDESTRIAN HEADS AT 90° TOTAL EFFECTIVE PROJECTED AREA 3.3 sq. ft. (EACH 131/2" W x 131/2" H) TOTAL WEIGHT
- C TRAFFIC SIGN FACE AREA 4.0 sq. ft. (24" W x 24 H") WEIGHT 14 lb.



ST-166

SHEET 2 OF 2

REV. No.

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REV. No.	DATE		REVISIONS		APPROVED	
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GES ENGINEERING INC. CALGARY, AB. PHONE (403) 240-2921 FAX (403) 240-3713

TRAFFIC SIGNAL LIGHT DUTY STRAIGHT SHAFT POLE OF 18 FEET IN HEIGHT

DESIGNED AND APPROVED Selne	DRAWN G.G.	DWG
Aug 17, 2004	DATE MAY 12, 2004	SCALE NT: