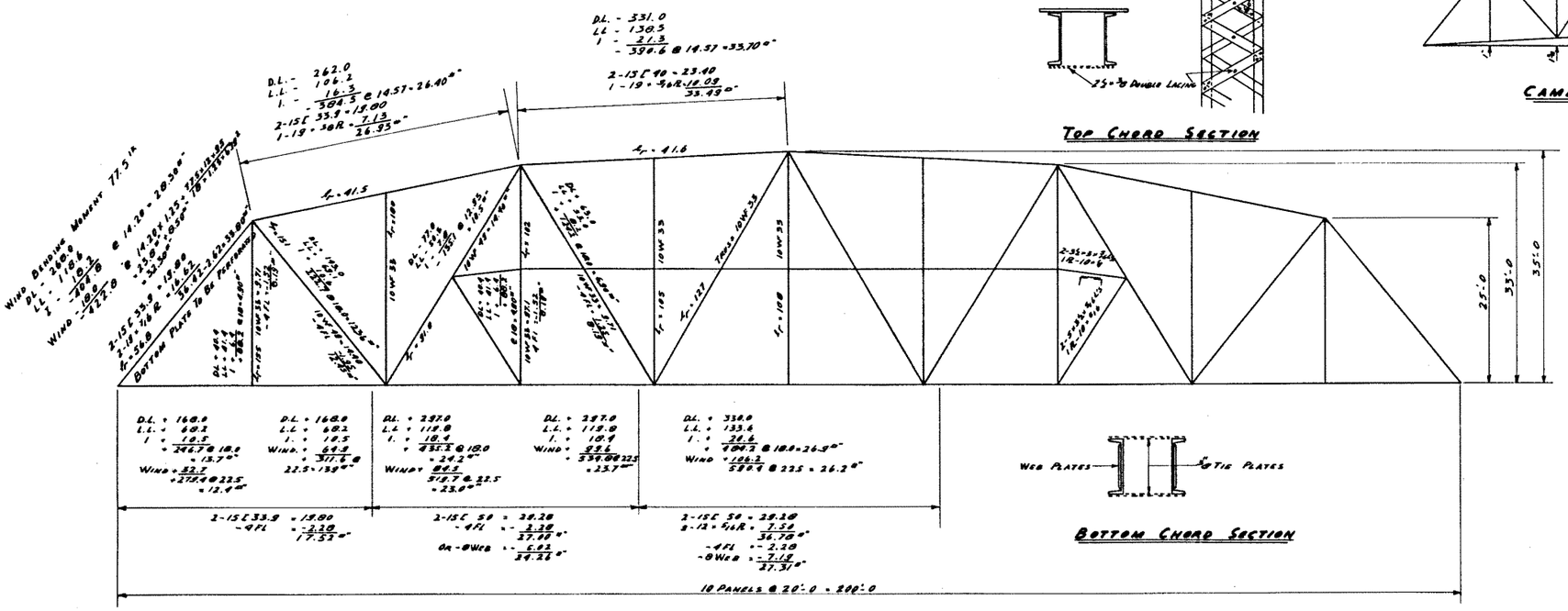

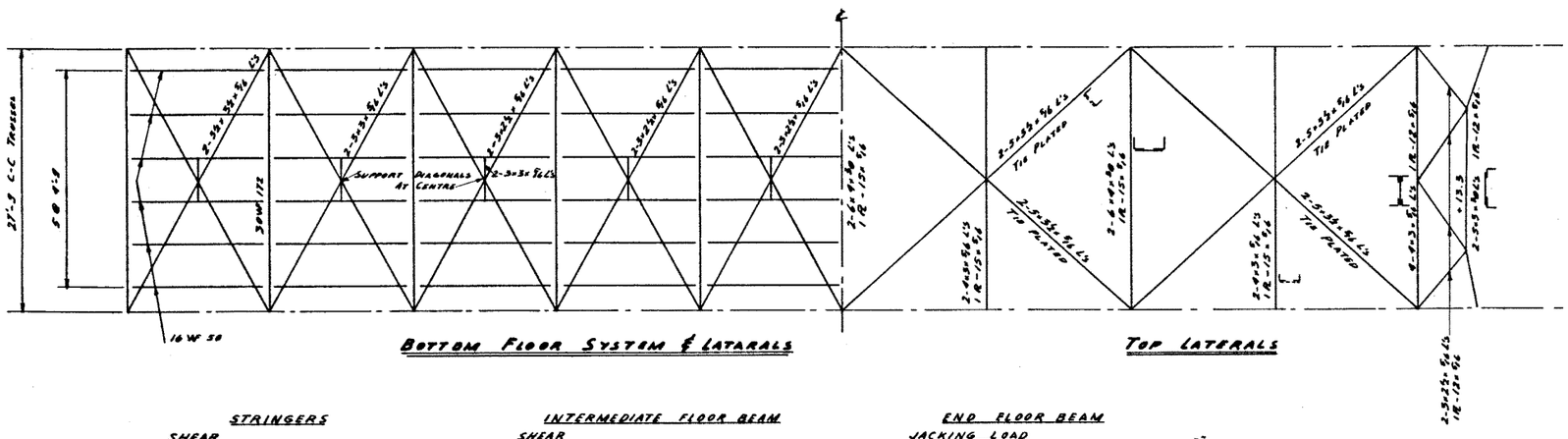

Stringers

Shear
D.L. 4.65
L.L. 19.20
I 2.76
26.61 @ 11.0 = 2.70"

Moment
D.L. 23.2
L.L. 76.0
I. 22.8
122.0
S Req. = 122 x 12 / 18 = 81.4
16WF 50 S = 80.7
Web Area = 6.16"

Intermediate Floor Beam

Shear
D.L. 28.3
L.L. 99.0
I 13.2
85.5 @ 11.0 = 7.76"

Moment
D.L. 196.0
L.L. 394.0
I 118.0
709.0
S Req. 709.0 x 12 / 18 = 472.
30WF 172 S = 520
Web Area = 18.6"

End Floor Beam

Jacking Load
Shear 211.3 @ 16.5 = 12.8"
Moment 635.9
S Req. 635.9 x 12 / 24 = 316.9
30WF 172

Design Data

Dead Load
Deck - 5" Concrete + 2" Asphalt 1200 #/Ft/Truss
Floor Steel & Handrail 207 - / "
Truss 525 - / -
Total 2,100 #/Ft/Truss

Live Load
For Floor - 1-H20-S16 Trucks
For Truss - 640 #/Lineal Ft. Of Loaded Lane Plus 18,000 # Concentrated Load For Moment Or 26,000 # For Shear

Wind Load
Top Chord - 150 #/Lineal Ft.
Bottom Chord - 300 #/Lineal Ft.
Live Load - 200 #/Lineal Ft. Applied 6'-0 Above Road Way

Impact
15.4% To Live Load Only For Truss
30.0% To Live Load Only For Floor

Specifications
A.A.S.H.O. - 1953

Unit Stresses
Tension - 18,000 #/in²
Compression - 15,000 - 4(l/r)² #/in²
Unit Stresses Increased 25% For D.L. + L.L. + Impact + Wind.
Shear On Webs - 11,000 #/in²
Rivets - Shear - 13,500 #/in²
Rivets Bearing - 27,000 #/in²

General
Shop Paint - One Coat Red Lead.
Gussets Plates - ⅜" Min. Thickness.
Rivets - ¾ ϕ

See Dwg 2307-P For Revised Truss

NO.	DATE	DESCRIPTION	BY
4			
3			
2			
1	Sept 4/57	Retraced	F.M.

REVISIONS

DESIGNED BY
DETAILED BY
CHECKED BY
DATE
DATE
DATE

Standard 200 ft. Through Span

Truss Design Sheet

GOVERNMENT OF THE PROVINCE OF ALBERTA
DEPARTMENT OF HIGHWAYS
BRIDGE BRANCH, EDMONTON

FILE NO. HWY. NO. DWG. NO.
LOCATION SCALE S-578
STREAM SHEET 1 OF 2

AT B.U. - RECORDS CENTRE
F10004