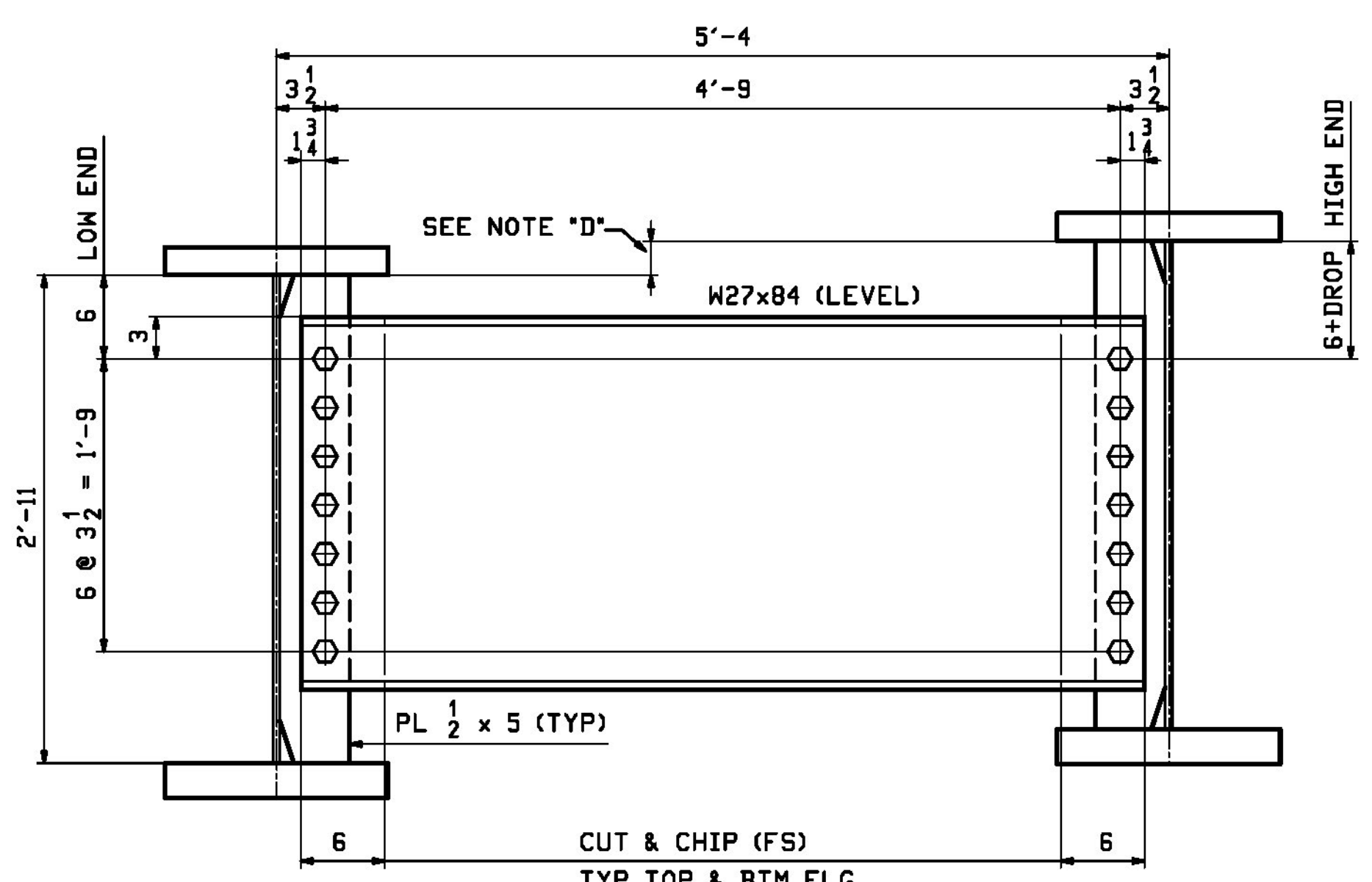


**CALCULATION PLAN**



**TYP. INT. DIAPHRAGMS**  
(LOOKING UP-STATION)  
47 REQ'D

- NOTES:**
- DIAPHRAGMS & CONN. PLATES SHALL BE ASTM A709 GRADE 50 (METALIZED).
  - ALL BOLT HOLES SHALL BE  $\frac{5}{16}$ " FOR  $\frac{7}{8}$ " HSB.
- NOTE "D"**  
DROP VARIES IN MAGNITUDE.

**\*\* NOTE \*\***  
THE PURPOSE OF THIS DRAWING IS TO COORDINATE GEOMETRIC CONTROL INFORMATION. THIS DWG IS SUBMITTED FOR INFORMATION ONLY AND IS NOT INTENDED FOR SHOP FABRICATION.

- CALCULATION PLAN NOTES:**
- LONGITUDINAL DIMENSIONS ARE SLOPING ALONG BTM OF GIRDERS WITH CORRECTIONS MADE FOR DL CAMBER, V.C. & GRADE (UN).
  - TRANSVERSE DIMENSIONS ARE IN A HORIZONTAL PLANE (UN).
  - ARROW POINTS TOWARD LOW END OF MEMBER.
  - ENDS OF GIRDERS & BRGS STIFF'S ARE VERTICAL AFTER DL ROTATION.
  - CROSSFRAMES STIFFENERS ARE NORMAL TO GRADE.
  - BOTTOM POINT NUMBERS = TOP POINT NUMBERS + 200.
  - COMBINE DIAPHRAGMS FOR DIFFERENCE IN DROPS OF  $\pm \frac{3}{16}$ ".
  - DIAPHRAGM DROPS ARE CALCULATED IN THE FINAL CONDITION.

Line	LEN A	GRADES	
		ABUT 1	ABUT 2
1	140'-3"	0.0105	-.0019
2	140'-1 $\frac{9}{16}$ "	0.0087	-.0038
3	140'-0 $\frac{9}{16}$ "	0.0068	-.0056
4	139'-10 $\frac{3}{8}$ "	0.0050	-.0074
5	139'-9 $\frac{1}{4}$ "	0.0032	-.0092
6	139'-7 $\frac{1}{2}$ "	0.0015	-.0110

Vermont Agency of Transportation  
**RECEIVED**  
CK'D BY \_\_\_\_\_ OK'D BY GFR  
May 7, 2017  
RESUBMIT No Approved  
BY C. Carlson DATE 05/09/2017

REV.	DATE	REMARKS	DWN	CHK	APVL	SHOP
0						
MATERIAL:		SURFACE PREP. & PAINT:		HOLES:		SHOP BOLTS:
M270-50 (UN)		SEE DWG GNI		15 16" $\phi$		7 8" $\phi$ HSB
DESCRIPTION: CALCULATION PLAN / LAYOUTS						
STRUCTURE:		CASCO BAY STEEL STRUCTURES, INC.		DRAWN:		DATE:
ROUTE VT 25B OVER WAITS RIVER		1 WALLACE AVE. PHONE (207) 780-6722		JTB		02/23
RURAL MAJOR COLLECTOR BRIDGE NO. 1		SOUTH PORTLAND, ME 04106 FAX. (207) 780-6726		CHKD:		DATE:
BRADFORD		COUNTY OF ORANGE		DBH		03/13
LOCATION:		JOB NO.		DNG NO.		
TOWN OF BRADFORD, VERMONT		706-1		WS1		
PROJ NO. BF D191(29)		CUSTOMER:		REV.		
		A.L.ST. ONGE		REV. $\Delta$		

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