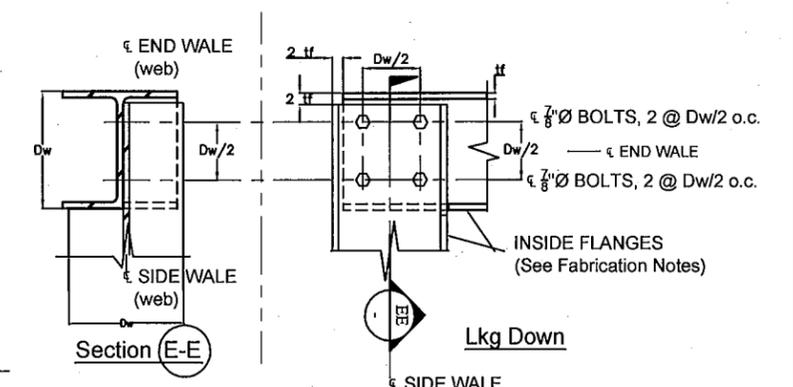
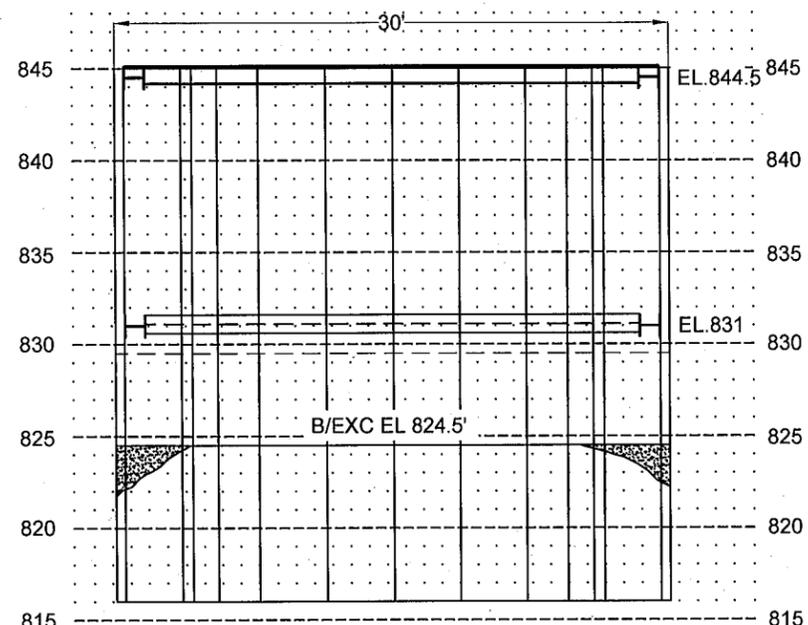


Lunenburg Arch Culvert Support of Excavation Plan View  
1" = 10'

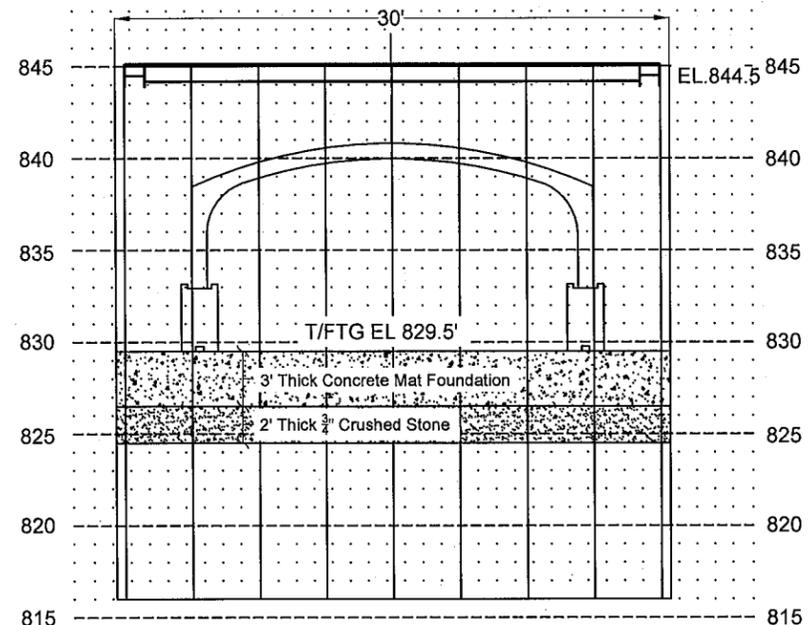


- GENERAL NOTES:**
1. Wales are assumed to be Matching HP Sections (Scale is for HP 14s)
  2. Dw = Depth of Wales, tf = Flange Thickness
  3. Bolts are 7/8" Ø A325 or SAE Grade 5
- FABRICATION NOTES:**
1. CUT INSIDE BOTT FLG OF SIDE WALE (tight fit) IN WAY OF END WALE
  2. CUT INSIDE TOP FLG OF END WALE (tight fit) IN WAY OF SIDE WALE
  3. LAP SIDE WALE WEB OVER END WALE WEB, AS SHOWN
  4. BOLT WALES TOGETHER w/4 - 7/8" Ø BOLTS AT HALF-DEPTH SPACING EACH WAY

Wale Connection Detail (typ)  
NTS



Typical Section  
1" = 10'



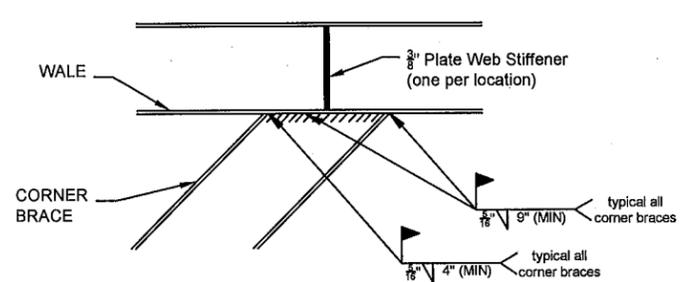
Typical Section (after concrete leveling slab has been placed)  
1" = 10'

**Notes:**

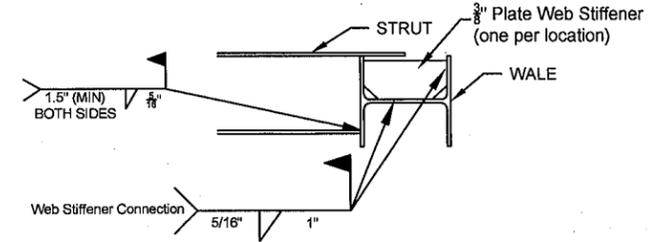
1. All sheets are to have a minimum section modulus of 15.2<sup>3</sup>.
2. Sheeting and bracing material to conform to ASTM A572 grade 50 requirements.
3. See plan for wale and strut sizing.

**Construction Procedure:**

1. Install sheets as shown in plan view.
2. Excavate to elevation 844 and install perimeter upper frame as shown in plan view.
3. Excavation can continue until elevation 833.5' (max 11.5' deep) before struts and corner braces are installed.
4. Continue excavating to +/- 829.50' and install lower framework as shown in plan view.
5. Excavate to bottom of excavation (not to exceed EL 824.5).
6. Back fill with stone to elevation 831.5 as shown on contract drawings.
7. Pour a 3' thick concrete mat directly against sheets to elevation 829.5' as shown on contract drawings.
8. Once concrete mat is in place, the lower framework may be removed.
9. Construct arch culvert as required.
10. Backfill to within 2' of upper frame and remove framework and pull sheets.



Corner Brace Connection Detail  
NTS



Wale/Strut Connection Detail  
NTS



PROJECT: VAOT NH Culv(27)

<b>H.B. FLEMING</b> 89 PLEASANT AVENUE SO. PORTLAND, ME 04106 P: 207-799-8514 F: 207-799-8538 www.hbfleming.com	TITLE: Arch Culvert Cofferdam PROJECT: VAOT NH Culv(27) LOCATION: Lunenburg, VT DATE: 02/15/16 SCALE: As Noted
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