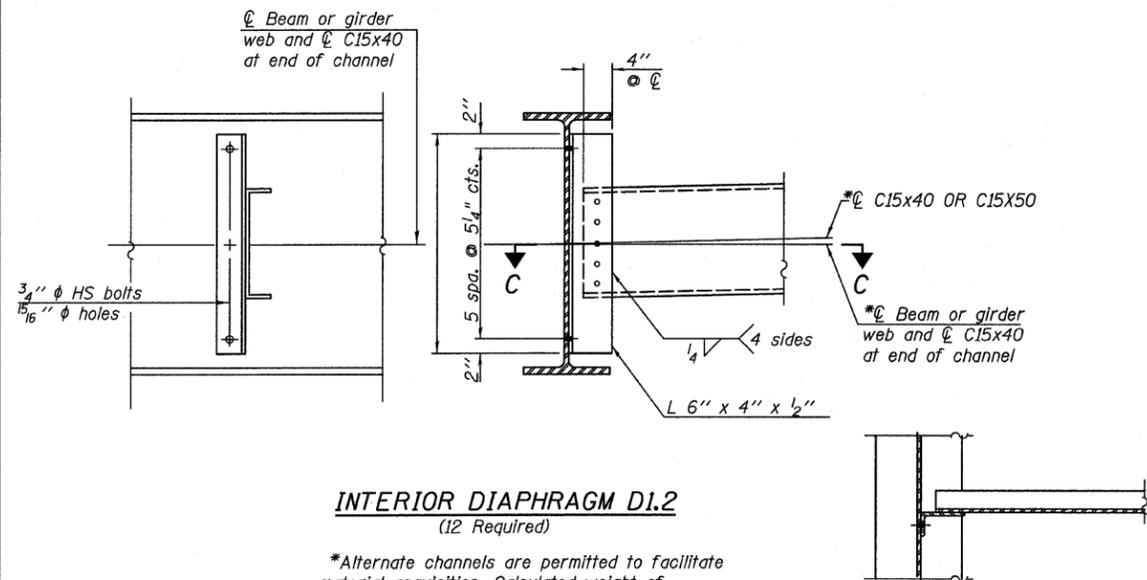


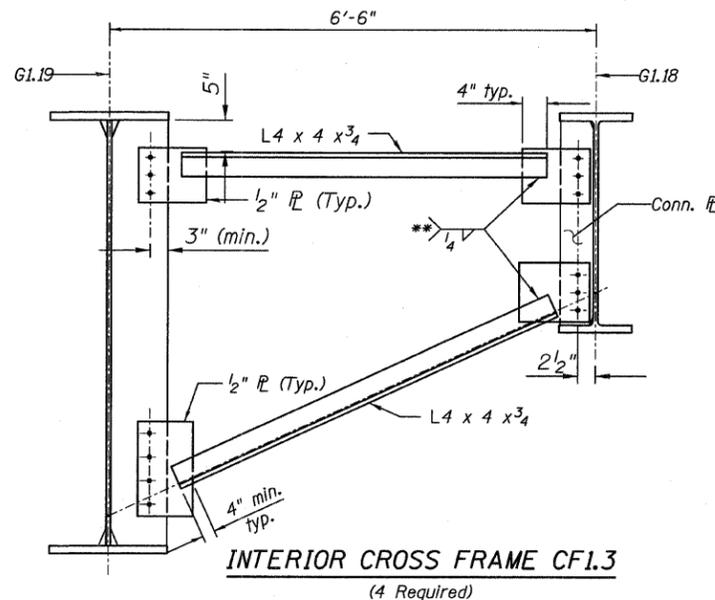
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION



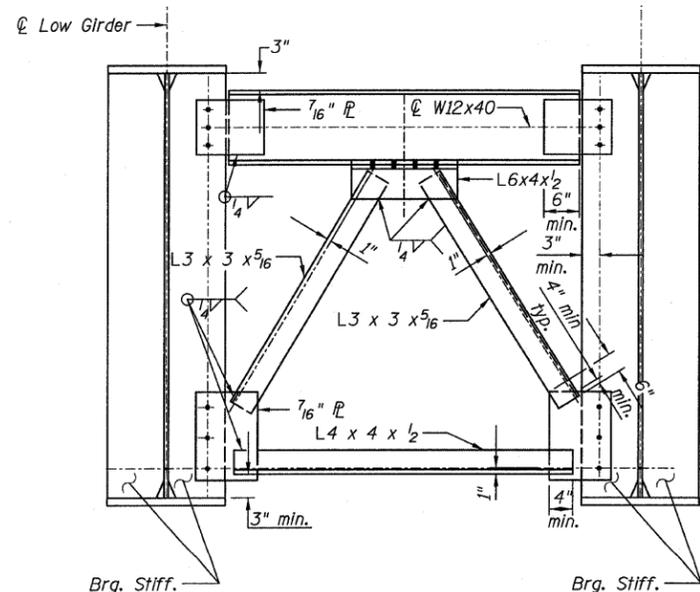
**INTERIOR DIAPHRAGM D1.2**  
(12 Required)

\*Alternate channels are permitted to facilitate material acquisition. Calculated weight of structural steel is based on the lighter section. The alternate, if utilized, shall be provided at no additional cost to the Department.

**SECTION C-C**

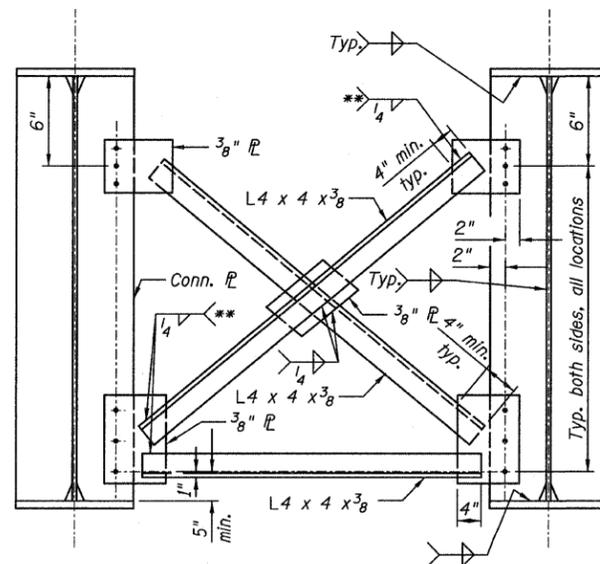


**INTERIOR CROSS FRAME CF1.3**  
(4 Required)



**END CROSS FRAME CF1.1**  
(7 Required)

Note:  
Place CrossFrame with channel Flanges and outstanding angle legs outward from abutment backwall. Weld on near side for 7/16 inch plate.



**INTERIOR CROSS FRAME CF1.2**  
(85 Required)

\*\* Fillet weld angle along 3 sides on one face of gusset plate.

**NOTES:**

1. All bolts shall be 3/4" φ with 5/16" φ holes unless otherwise noted.
2. Two hardened washers shall be required over all oversize holes for diaphragms.
3. All cross frames or diaphragms shall be installed as steel is erected and secured with erection pins and bolts except as otherwise noted. Individual cross frames or diaphragms at supports may be temporarily disconnected to install bearing anchor rods.

**DIAPHRAGMS & DETAILS**  
**RAMP 1 FLARE**  
**STRUCTURE NO. 016-0724**

**TYLIN INTERNATIONAL**

| DESIGNED | EKH, JMA   | REVISIONS |      |
|----------|------------|-----------|------|
| CHECKED  | AMD,       | NAME      | DATE |
| DRAWN    | EKH, JMA   |           |      |
| CHECKED  | AMD,       |           |      |
| DATE     | 03/25/2011 |           |      |

|   |                    |                    |        |              |           |
|---|--------------------|--------------------|--------|--------------|-----------|
| SHEET NO. 130                                   | F.A.I. RTE.        | SECTION            | COUNTY | TOTAL SHEETS | SHEET NO. |
|   | 55                 | 0711.2R & 1011.1BR | COOK   | 741          | 454       |
| 239 SHEETS                                      | CONTRACT NO. 60999 |                    |        |              |           |
| FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT |                    |                    |        |              |           |

4/28/2011

\\0345\structure\2 Central Ave. 016-0724\155\Framed120.dgn

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