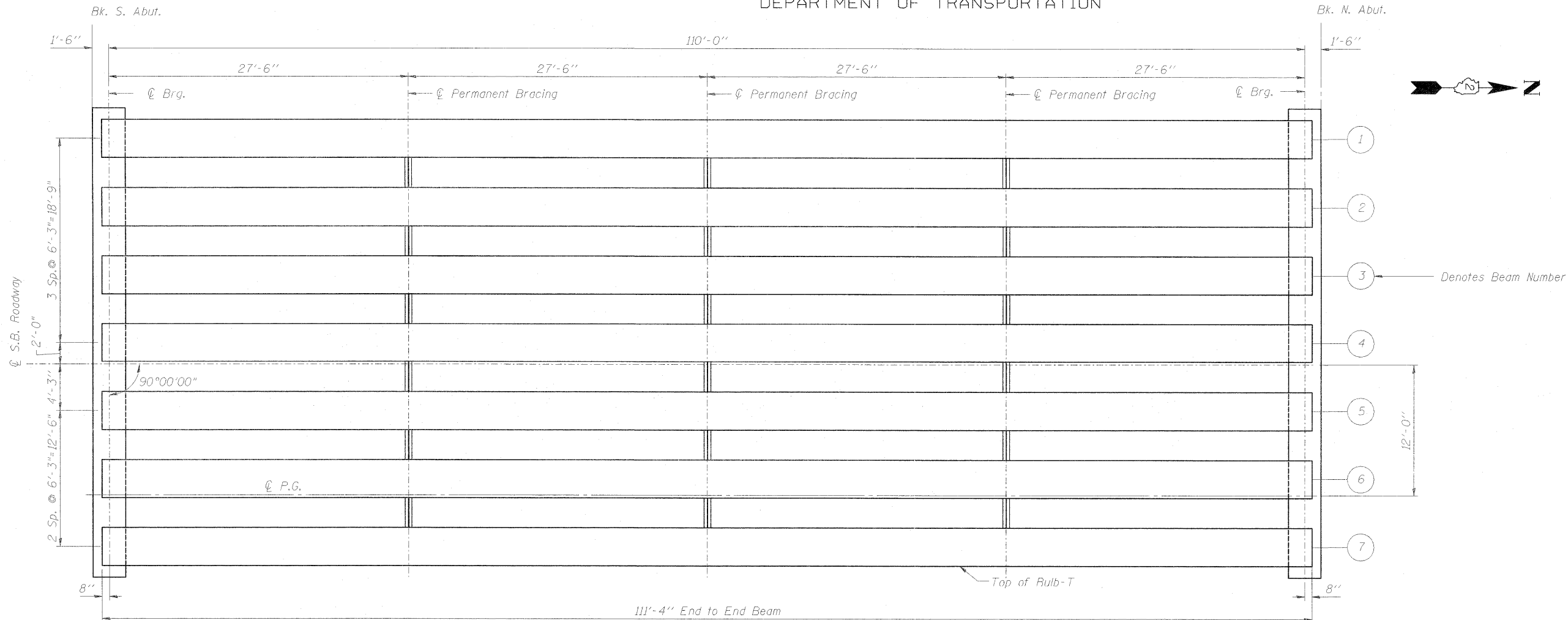


STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION



**BULB-T FRAMING PLAN-SB**

| Interior Girder Moment Table |                    |        |
|------------------------------|--------------------|--------|
| 0.5 Span                     |                    |        |
| <i>I</i>                     | (in <sup>4</sup> ) | 392638 |
| <i>I'</i>                    | (in <sup>4</sup> ) | 716147 |
| <i>S<sub>b</sub></i>         | (in <sup>3</sup> ) | 12224  |
| <i>S<sub>b</sub>'</i>        | (in <sup>3</sup> ) | 15865  |
| <i>S<sub>t</sub></i>         | (in <sup>3</sup> ) | 12715  |
| <i>S<sub>t</sub>'</i>        | (in <sup>3</sup> ) | 40099  |
| <i>DL</i>                    | (k/')              | 1.38   |
| <i>Mdl</i>                   | (' k)              | 2093   |
| <i>s DL</i>                  | (k/')              | 0.44   |
| <i>MsdI</i>                  | (' k)              | 667    |
| <i>MII</i>                   | (' k)              | 968    |
| <i>M (Imp)</i>               | (' k)              | 206    |

*I* and *I'* are the moment of inertia and composite moment of inertia of the beam section.

*S<sub>b</sub>* and *S<sub>b</sub>'* are the non-composite and composite section modulus for the bottom fiber of the prestressed beam.

*S<sub>t</sub>* and *S<sub>t</sub>'* are the non-composite and composite section modulus for the top fiber of the prestressed beam.

NOTE: See Sht. 17 for Permanent Bracing Details.

| Interior Girder Reaction Table |     |       |
|--------------------------------|-----|-------|
| Abut.                          |     |       |
| <i>Rdl</i>                     | (k) | 76.1  |
| <i>RsdI</i>                    | (k) | 24.2  |
| <i>RII</i>                     | (k) | 37.4  |
| <i>Imp.</i>                    | (k) | 8.0   |
| <i>R (Total)</i>               | (k) | 145.7 |

|            |     |
|------------|-----|
| DESIGNED - | BTO |
| CHECKED -  | JAN |
| DRAWN -    | BTO |
| CHECKED -  | JAN |

**FRAMING PLAN SB & MOMENT TABLE  
STRUCTURE NO. 101-0177**

|                               |                    |                 |                  |              |           |
|-------------------------------|--------------------|-----------------|------------------|--------------|-----------|
| SHEET NO. 19<br><br>30 SHEETS | F.A.P. RTE.        | SECTION         | COUNTY           | TOTAL SHEETS | SHEET NO. |
|                               | 734                | 77-2B-1, 77-2-2 | WINNEBAGO        | 530          | 291       |
|                               | CONTRACT NO. 64813 |                 |                  |              |           |
| FED. ROAD DIST. NO.           |                    | ILLINOIS        | FED. AID PROJECT |              |           |