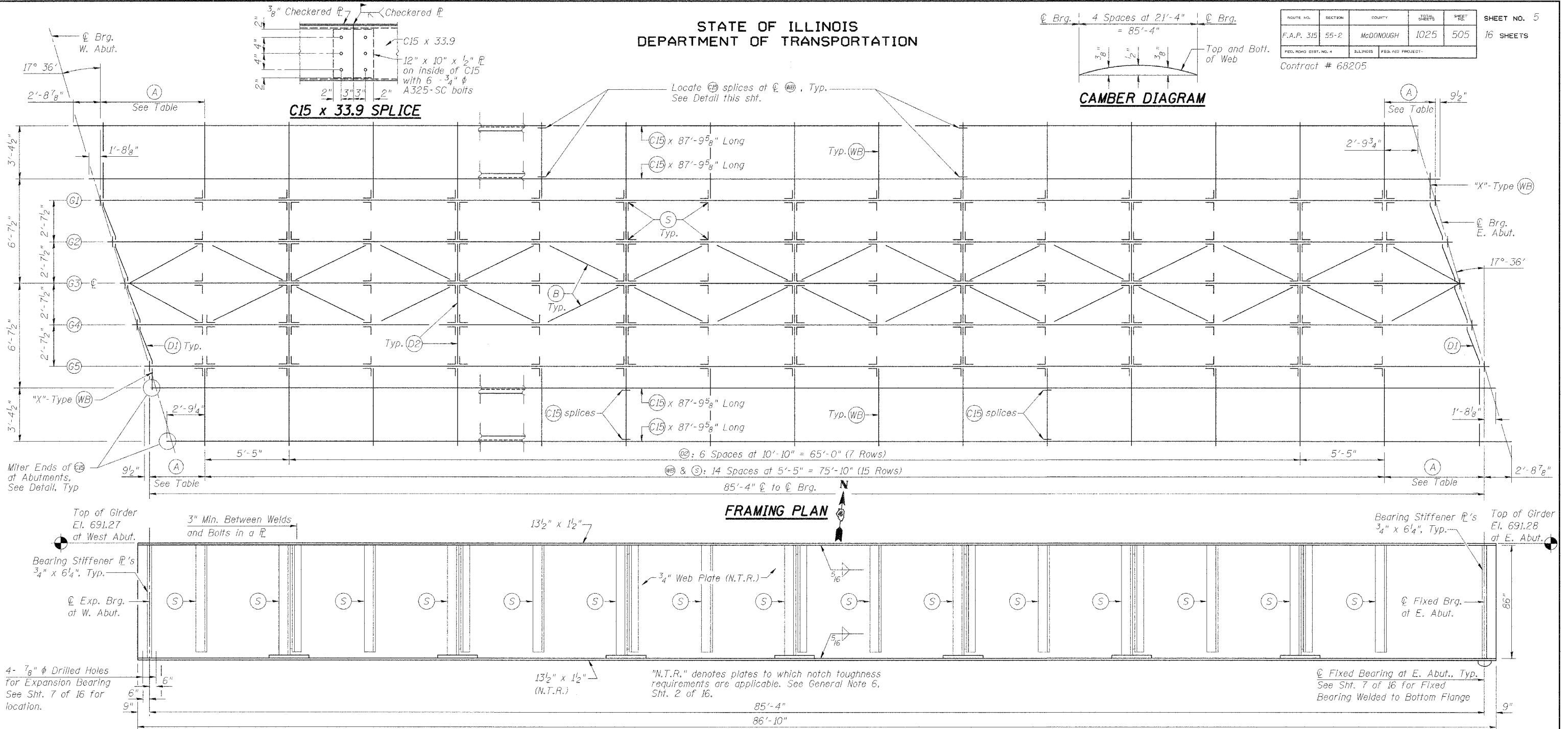


STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET	SHEET NO.
F.A.P. 315	55-2	MCDONOUGH	1025	505	16 SHEETS
FED. ROAD DIST. NO.		ILLINOIS		FEA. AND PROJECT	
Contract # 68205					



**KEY**

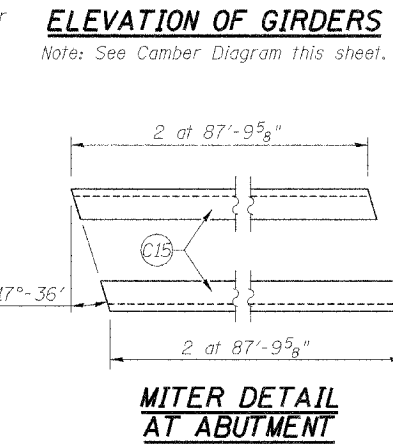
- (G1) Plate Girder Designations
- (D1) End Diaphragms
- (D2) Interior Diaphragms
- (B) WT6 x 25 Bottom Flange Diagonal Bracing

DESIGNED	PJL
CHECKED	WDL
DRAWN	MGM
CHECKED	PJL

- (S) Intermediate Stiffeners L 6" x 6" x 5/8", number of L's as shown and described thus:
  - (G1) & (G2):
    - With (B) on ext. face of (G1) & (G2): one L outside face
    - With (B) on (G1) & (G2): two L's inside face
    - Without (B) on (G1) & (G2): one L on inside face
    - Exception: 4 L's (2 each face) E. End of (G1) & W. End of (G2).
  - (G3) thru (G5):
    - With (B): four L's (2 each face)
    - Without (B): two L's (1 each face)
    - Exception: 4 L's (2 each face) E. End of (G3) & W. End of (G5).
- (WB) Walkway Bracket cut from W30 x 99 (Two of Type "X"). See Detail Sht. 6 of 16.
- (C15) C15 x 33.9 Walkway Stringer.

See Sht. 7 of 16 for Girder Reaction & Moment Tables.

Girder	West End	East End
(G1)	6'-5"	3'-1"
(G2)	5'-7"	3'-11"
(G3)	4'-9"	4'-9"
(G4)	3'-11"	5'-7"
(G5)	3'-1"	6'-5"



- STEEL MATERIALS**
- Steel Plates for Welded Plate Girders, Diaphragms, Stiffeners, Ballast Plate, Walkway Brackets (WB), WT 6 x 25 Bracing (B) and its Gussets WT12 x 47: AASHTO M270 Grade 50.
  - Angles for Stiffeners (S) and Channels (C): AASHTO M270 Grade 36.
  - 3/8" Checkered Plate Walkway: ASTM A786 Pattern No. 1,2,3,4, or 5 using AASHTO M270 Grade 36 Steel. Galvanized in accordance with ASTM A123. See note 7 below.
  - Steel Railing in accordance with Section 542 of the Standard Specifications for Road and Bridge Construction. Galvanized in accordance with ASTM A123. See note 7 below.
  - Steel in contact with the Ballast shall be copper bearing (0.20 % Min.); Ballast Plate and its Joint Closure Plates, interior (C) and its Joint Closure Plates. See AASHTO M270.
  - Complete Joint Penetration (CJP) butt joints are permitted in web plates and flange plates subject to the following limitations:
    - Meet AASHTO/AWS D1.5 and ILDOT requirements.
    - No more than one per web or flange.
    - CJP welds in the flange and the web must be separated by at least 36".
    - No CJP within 4 ft. of the girder midspan.
    - No CJP within 3" from bolt holes.
  - Damage to galvanizing shall be repaired in accordance with ASTM A780, Method A2.
- FRAMING PLAN**  
 BURLINGTON NORTHERN SANTA FE RAILROAD OVER RAMP I  
 F.A.P. ROUTE 315 SECT. 55-2  
 McDONOUGH COUNTY  
 STATION 21+61.48  
 STRUCTURE NO. 055-9902  
 B.N.S.F. LINE SEGMENT 0011  
 B.N.S.F. BRIDGE NO. 206.13
- STS CONSULTANTS**  
 111 NE Jefferson Ave.  
 Peoria, Illinois 61602  
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 IL Design Firm Reg. No. 224-001522