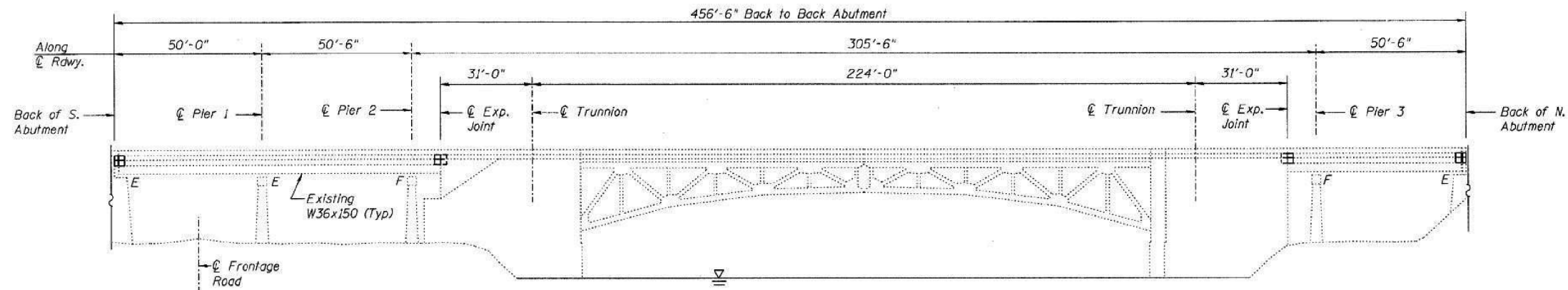
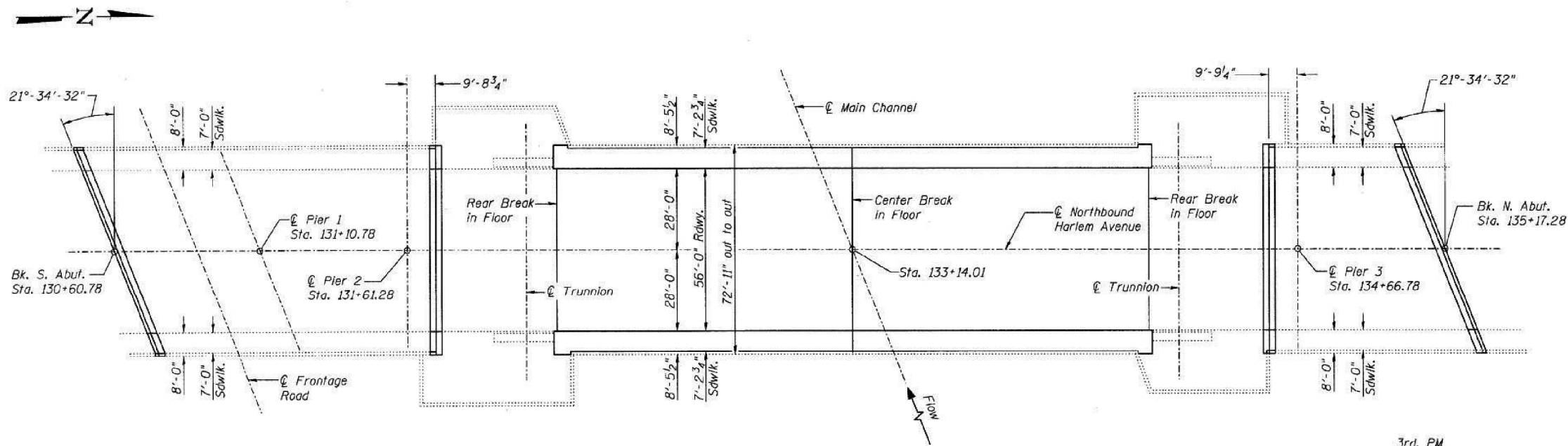


STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

Existing Structure: S.N. 016-0315 built in 1931 as F.A.P. 42, Section 207-0708.08-CF. Existing structure is a double leaf steel bascule bridge. In 1970, the superstructure of the approach spans was replaced with steel stringers and a reinforced concrete deck. In 1990, the timber deck of the bascule spans was replaced with a 5/16" welded steel grid deck, half-filled with concrete. The approach span decks were partially replaced and a 2" concrete overlay was placed. In 1999, the epoxy overlay on the bascule spans was removed and replaced with a 3/8" polymer concrete overlay. Approach spans have steel stringers and reinforced concrete deck. Bridge length is 456'-6" from back to back abutments. The abutments and piers are reinforced concrete. Piers consist of multiple columns with a continuous cap beam. The abutments are counterfort type. Stage Construction shall be utilized to maintain traffic during construction.



ELEVATION



PLAN

DESIGN STRESSES  
FIELD UNITS

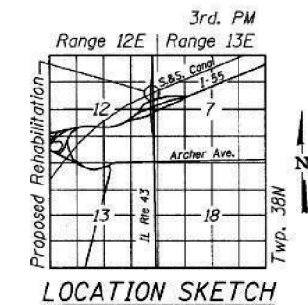
New Construction  
f'c = 3,500 psi  
fy = 60,000 psi (Reinforcement)  
fy = 36,000 psi (Structural Steel) (M270 Gr. 36)

DESIGN SPECIFICATIONS

(New Construction)  
2002 AASHTO "Standard  
Specifications for Highway Bridges", 17th Edition

LOADING HS 20-44

(Original Construction)



FOR INFORMATION ONLY

|  |                              |            |           |   |  |                    |                      |        |              |                           |  |
|--|------------------------------|------------|-----------|---|--|--------------------|----------------------|--------|--------------|---------------------------|--|
| FILE NAME =  | USER NAME = pughst           | DESIGNED - | REVISED - | <b>STATE OF ILLINOIS<br/>DEPARTMENT OF TRANSPORTATION</b> | <b>IL RTE. 43 / HARLEM AVE. (OVER SANTARY &amp; SHIP CANAL)<br/>LOCATION 1: SN 016-0315<br/>EXISTING BRIDGE PLAN</b> | F.A.P. RTE.        | SECTION              | COUNTY | TOTAL SHEETS | SHEET NO.                 |  |
| et:\pwork\pwork\pughst\02319399\0108918-shr-plan.dgn |                              | DRAWN -    | REVISED - |   |  | 348                | 2012-078BP           | COOK   | 36           | 5                         |  |
| #MODELNAME#  | PLOT SCALE = 100.0000' / in. | CHECKED -  | REVISED - |   |  | CONTRACT NO. 60V87 |                      |        |              |                           |  |
|  | PLOT DATE = 11/9/2012        | DATE -     | REVISED - |   |  | SCALE:             | SHEET 1 OF 25 SHEETS | STA.   | TO STA.      | ILLINOIS FED. AID PROJECT |  |