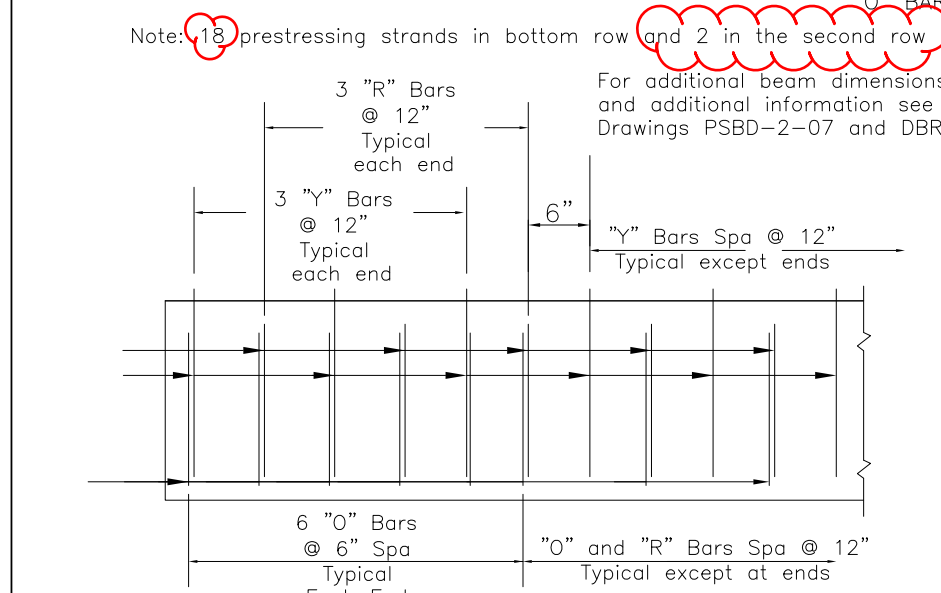
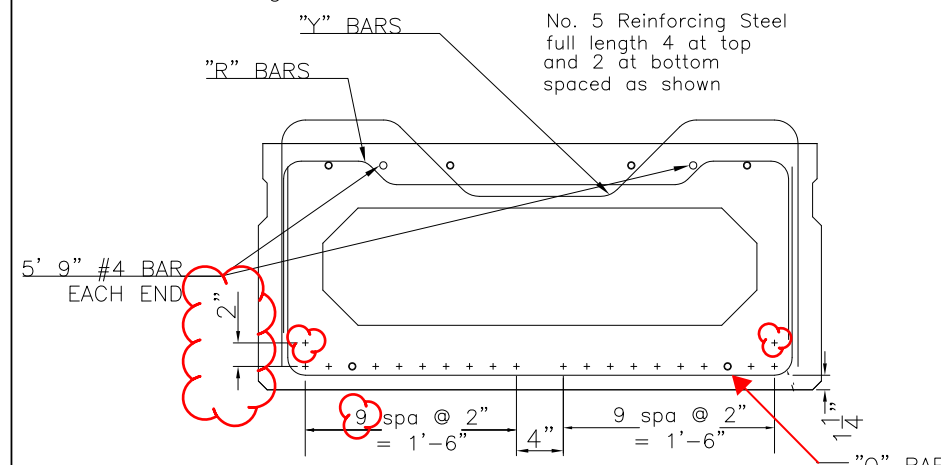
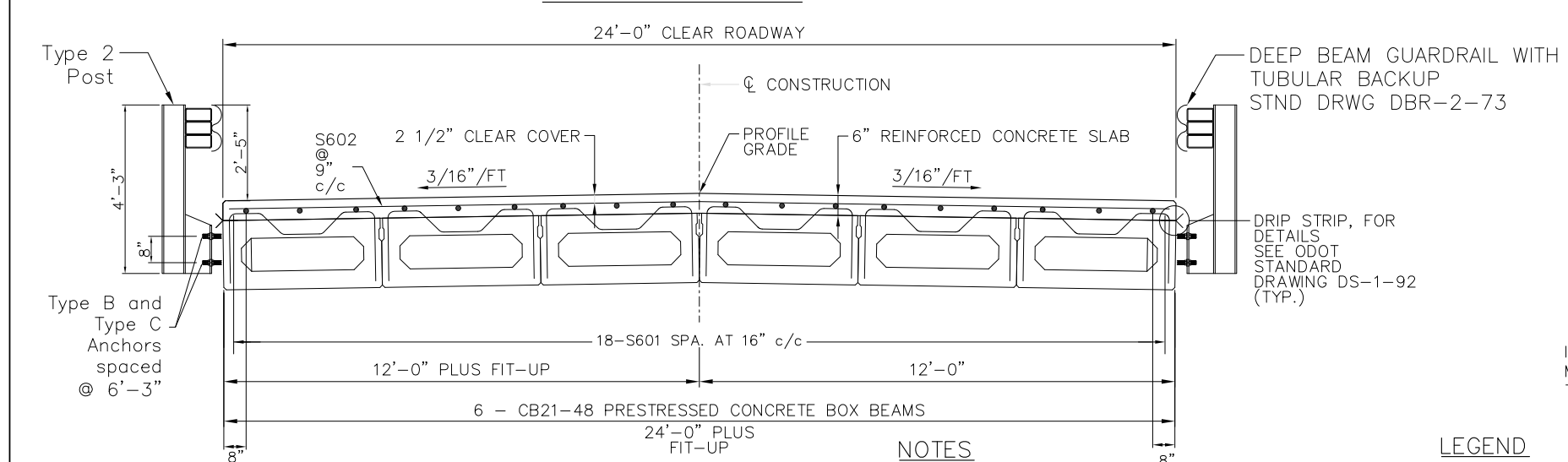


TRANSVERSE SECTION



Design Data:

Live Loading: HL-93 Superimposed

Dead Load: Asphalt Overlay- 3 1/2" thick (avg.)
Railing Weight - 0.10 KLF per rail
FWS - 0.060 KSF

Dead Load: Diaphragm weight is based on 3'-0" long diaphragms and number shown on Standard Drawing PSBD-2-07

Concrete: Min. Compressive Strength at 28 days $f'_c = 7$ ksi
Min. Compressive Strength at time of initial prestress $f'_c = 5$ ksi

Reinforcing Steel: Grade 60 - Min. Yield Strength 60,000 psi

Prestressing Steel: ASTM A416 1/2" diameter

$A_{ps} = 0.167$ sq. in. per strand

$f_{pu} = 270$ ksi

$E_s = 28,500$ ksi

$RH = 70\%$

Initial stress $0.75 f_{pu} = 202.5$ ksi

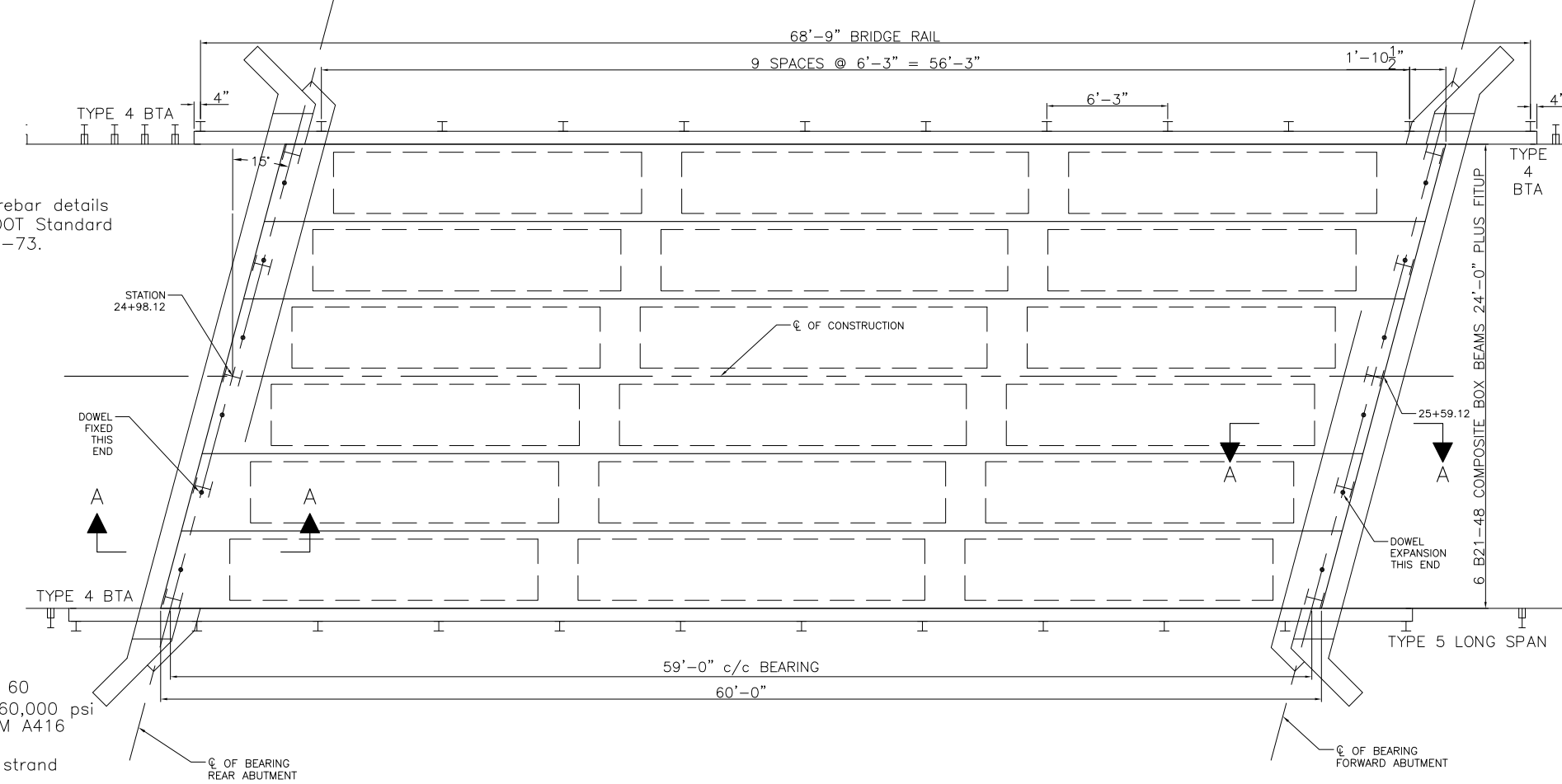
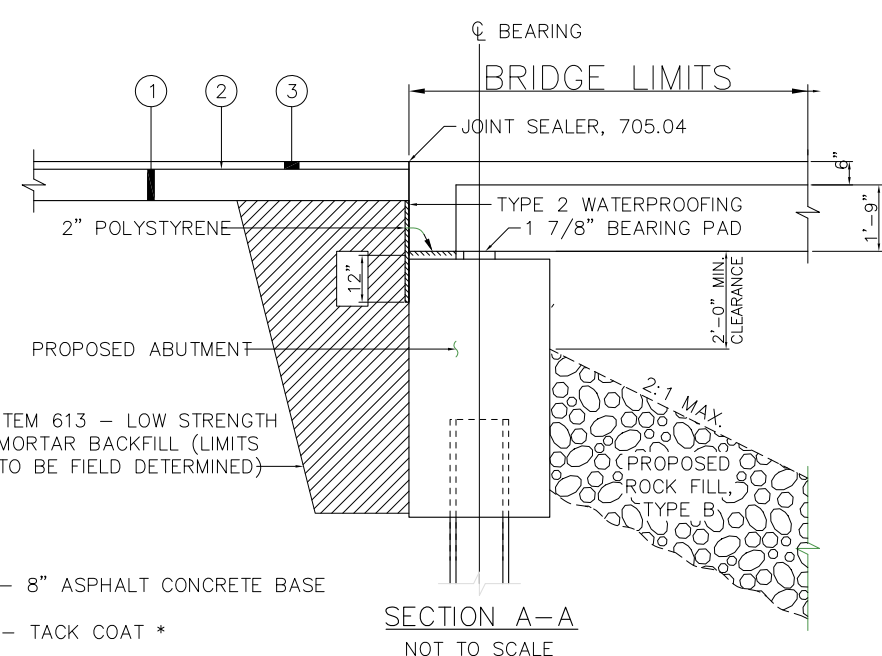
Initial tension load - 33.82 kips/strand

NOTES

1. PRESTRESSED CONCRETE BOX BEAM BRIDGE DETAILS SHALL BE IN ACCORDANCE WITH ODOT STANDARD DRAWING PSBD-2-07.
2. THE CONTRACTOR SHALL PROVIDE THE PRESTRESSED CONCRETE BOX BEAM DESIGN TO THE MEIGS COUNTY ENGINEER FOR APPROVAL PRIOR TO FABRICATION. THE DESIGN SHALL BE PREPARED AND STAMPED BY AN OHIO REGISTERED PROFESSIONAL ENGINEER.
3. BRIDGE RAILING: POST SPACINGS SHOWN ARE TYPICAL FOR BOTH SIDES.

LEGEND

- ① ITEM 301 - 8" ASPHALT CONCRETE BASE
 - ② ITEM 407 - TACK COAT *
 - ③ ITEM 441 - 2" ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (448), PG64-22
- * TO BE USED "AS DIRECTED BY THE ENGINEER"



PID NO. 109294	
DATE	STRUCTURE FILE NUMBER
REVIEWED	CHECKED
DRAWN	REVISED
DESIGNED	CHECKED
SUPERSTRUCTURE	
MEG CR163-00.473	
2 / 5	
9 / 23	