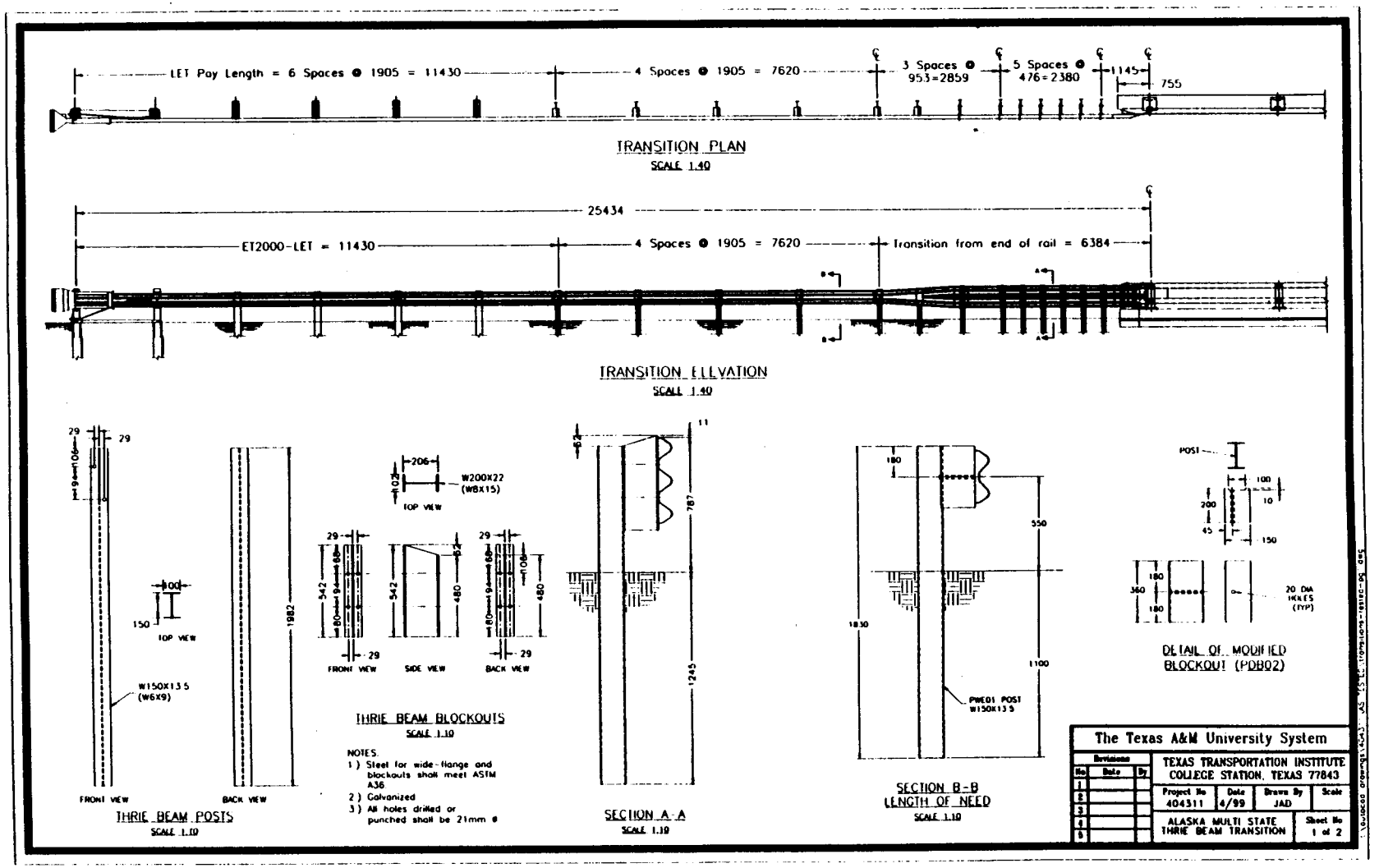


Figure 1. Details of the Alaska Multi-State Bridge Rail Thrie-Beam Transition.

ENCLOSURE 1 (1 of 2)

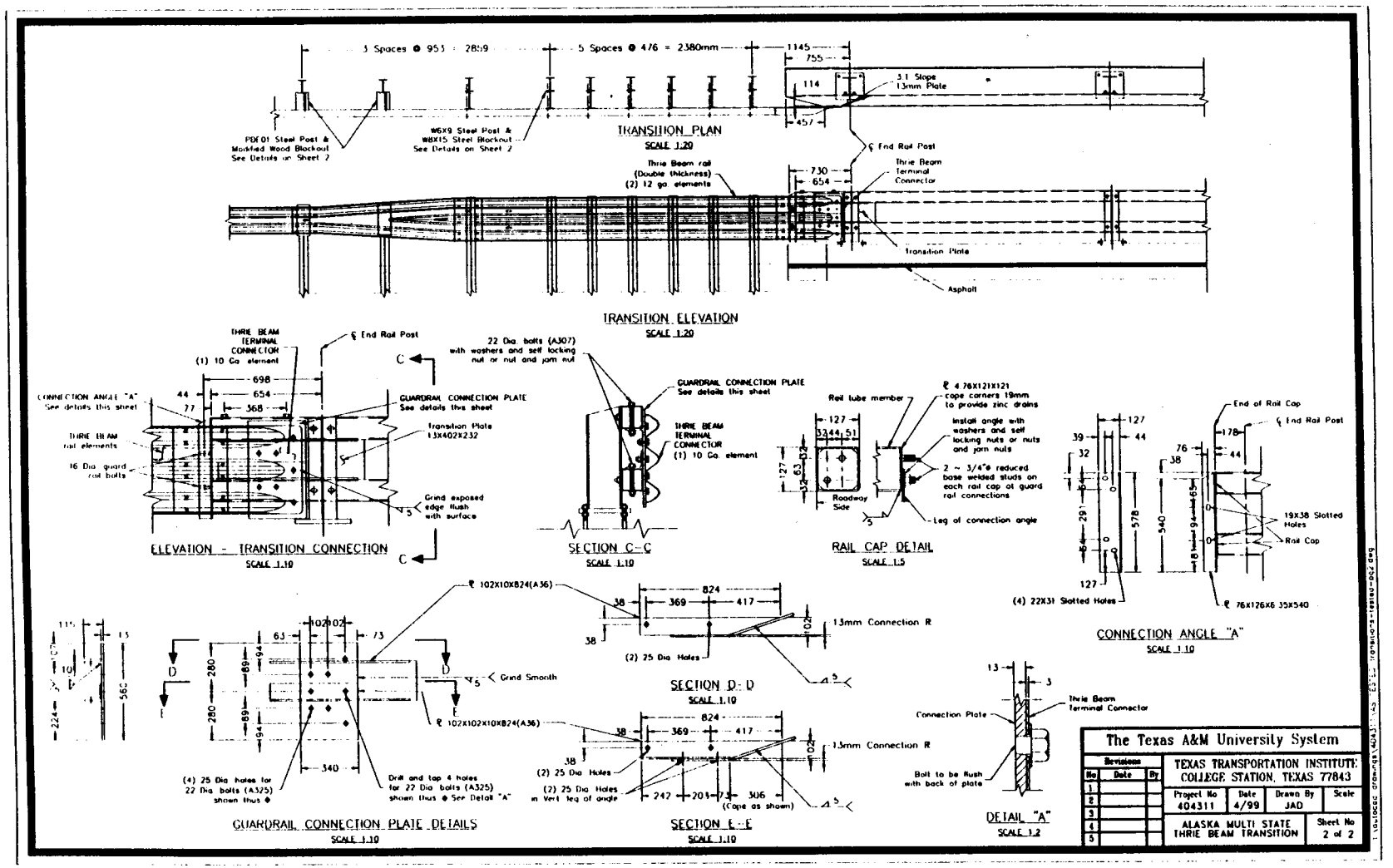
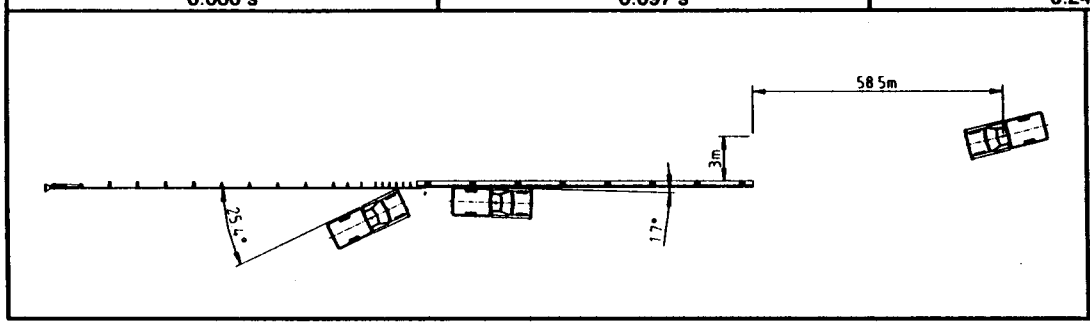
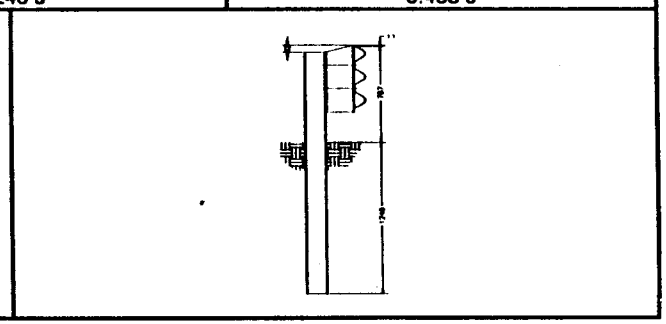


Figure 2. Details of the bridge rail connection of Alaska Multi-State Bridge Rail Thrie-Beam Transition.

ENCLOSURE 1 (2 of 2)





General Information
- Test Agency ..... Texas Transportation Institute
- Test No. 404311-5
- Date 06/01/99

Test Article
- Type ..... Transition
- Name ..... Alaska Multi-State Thrie Beam Transition
- Installation Length (m) 25.4
- Material or Key Elements ... Thrie Beam Attached to Alaska Multi-State Bridge Rail

Soil Type and Condition .... Standard Soil, Dry

Test Vehicle
- Type ..... Production
- Designation 2000P
- Model ..... 1994 Chevrolet 2500 pickup truck
- Mass (kg)
  - Curb 1982
  - Test Inertial 2000
  - Dummy ..... No dummy
  - Gross Static 2000

Impact Conditions
- Speed (km/h) 100.6
- Angle (deg) 25.4

Exit Conditions
- Speed (km/h) 75.6
- Angle (deg) 1.7

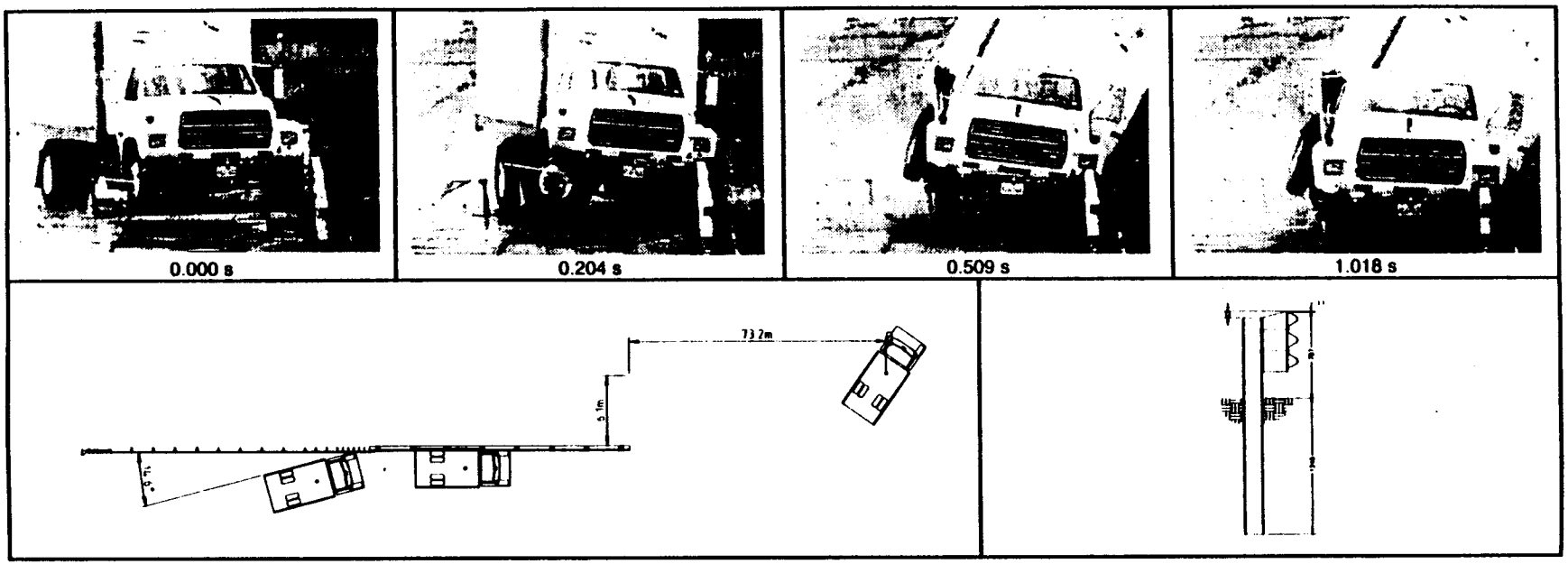
Occupant Risk Values
- Impact Velocity (m/s)
  - x-direction 7.4
  - y-direction 7.6
- THIV (km/h) 35.0
- Ridedown Accelerations (g's)
  - x-direction 9.5
  - y-direction 9.6
- PHD (g's) 12.7
- ASI 1.84
- Max. 0.050-s Average (g's)
  - x-direction ..... -11.4
  - y-direction 14.4
  - z-direction ..... -6.2

Test Article Deflections (m)
- Dynamic 0.131
- Permanent 0.50

Vehicle Damage
- Exterior
  - VDS 11LFQ4
  - CDC ..... 11FLEK3 & 11LDEW3
- Maximum Exterior Vehicle Crush (mm) 570
- Interior
  - OCDI LF02020001
- Max. Occ. Compart. Deformation (mm) 130

Post-Impact Behavior (during 1.0 s after impact)
- Max. Yaw Angle (deg) 28
- Max. Pitch Angle (deg) ..... -4
- Max. Roll Angle (deg) ..... -7

Figure 11. Summary of Results for test 404311-5, *NCHRP Report 350* test 4-21.



General Information
- Test Agency ..... Texas Transportation Institute
- Test No. 404311-6
- Date 06/16/99

Test Article
- Type ..... Transition
- Name or Manufacturer ..... Alaska Multi-State Thrie Beam Transition 25.4
- Installation Length (m) ..... Thrie Beam Attached to Alaska Multi-State
- Material or Key Elements ... Bridge Rail Transition

Soil Type and Condition .... Standard Soil, Dry

Test Vehicle Production
- Type 8000S
- Designation ..... 1986 Ford F700 single-unit truck
- Model .....
- Mass (kg) 5135
  - Curb 8000
  - Test Inertial ..... No dummy
  - Dummy 8000
  - Gross Static .....

Impact Conditions
- Speed (km/h) 49.9
- Angle (deg) 14.6

Exit Conditions
- Speed (km/h) 65.4
- Angle (deg) ..... approx. 1

Occupant Risk Values
- Impact Velocity (m/s)
  - x-direction 3.2
  - y-direction ..... -3.4
- THIV (km/h) 13.8
- Ridedown Accelerations (g's)
  - x-direction ..... -2.4
  - y-direction 3.8
- PHD (g's) 4.0
- ASI 0.34
- Max. 0.050-s Average (g's)
  - x-direction ..... -2.0
  - y-direction 3.0
  - z-direction ..... -1.9

Test Article Deflections (m)
- Dynamic 0.077
- Permanent 0.049

Vehicle Damage
- Exterior
  - VDS ..... N/A
  - CDC ..... N/A
- Maximum Exterior Vehicle Crush (mm) ..... N/A
- Interior
  - OCDI FS0000000
- Max. Occ. Compart. Deformation (mm) ..... N/A

Post-Impact Behavior (during 1.0 s after impact)
- Max. Yaw Angle (deg) 16
- Max. Pitch Angle (deg) ..... -5
- Max. Roll Angle (deg) ..... -10

Figure 11. Summary of results for test 404311-6, *NCHRP Report 350* test 4-22.

ENCLOSURE 2 (2 of 2)