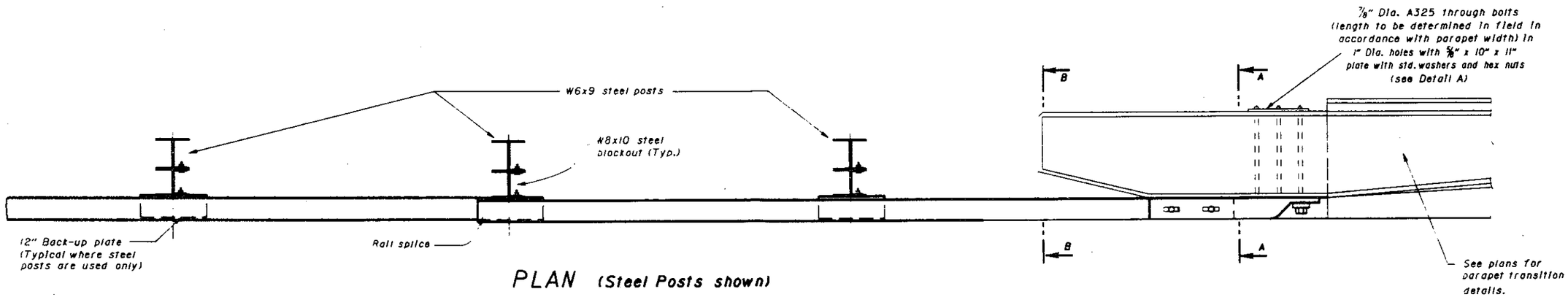
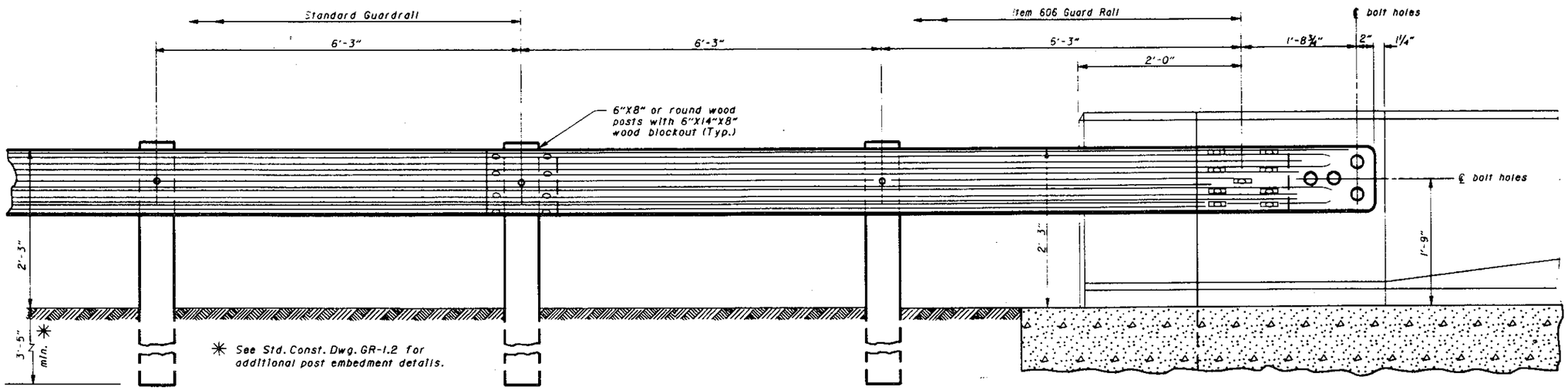


PLAN (Steel Posts shown)



ELEVATION (Wood Posts shown)

TYPE 2

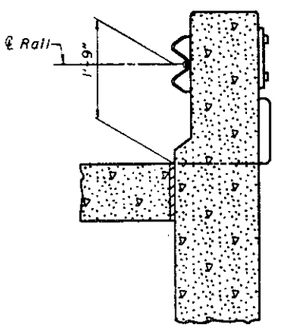
NOTES

GENERAL
For additional details, see Std. Const. Dwgs. GR-1.1, GR-1.2 and other Standard Drawings pertaining to design of specific guardrail types.

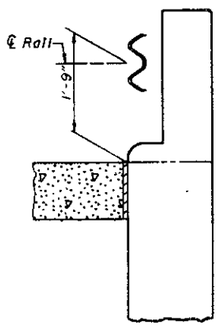
APPLICATION
The Type 2 Bridge Terminal Assembly shall be used to connect guardrail runs to the trailing end of bridge parapets or other concrete barrier installations on one-direction roadways.

POSTS
Posts shall be of standard size and material specified for the appropriate type of guardrail to be installed leaving the bridge or barrier.

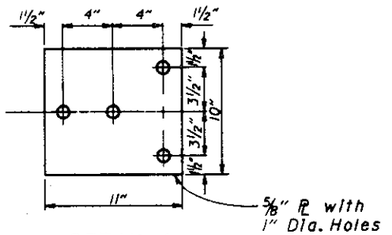
PAYMENT
Payment for Item 606 - Each, Bridge Terminal Assembly, Type 2 shall include the extra cost, in excess of normal guardrail cost, for terminal connector, steel plate, bolts, hex nuts, washers and other hardware.



SECTION A - A



SECTION B - B



DETAIL A

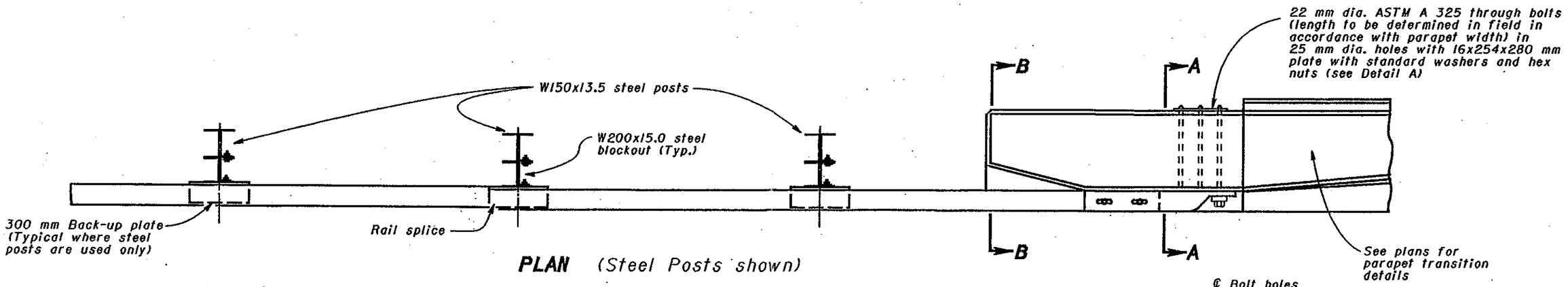
BUREAU OF LOCATION AND DESIGN
OHIO DEPARTMENT OF TRANSPORTATION

BRIDGE TERMINAL ASSEMBLY, TYPE 2

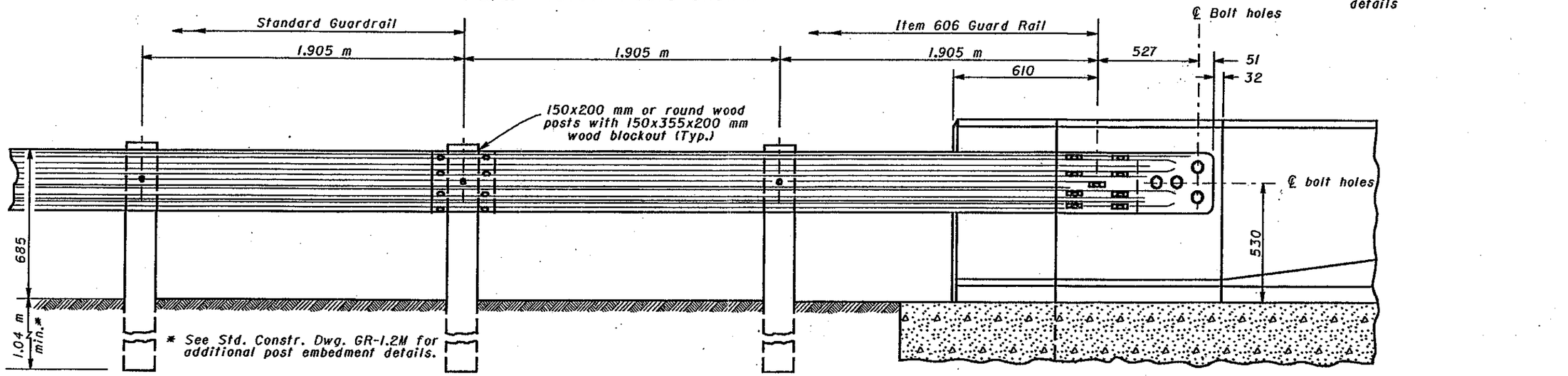
DATE 5-6-91

STANDARD CONSTRUCTION DRAWING **GR-3.2**

APPROVED D. K. Huhman ENGR., L. & D.



PLAN (Steel Posts shown)



ELEVATION (Wood Posts shown)

TYPE 2

All dimensions are in millimeters unless otherwise noted.

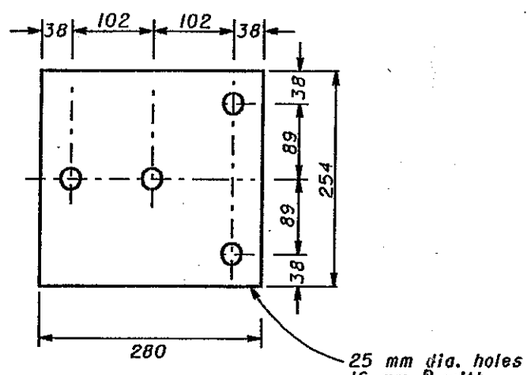
NOTES

GENERAL:
For additional details, see Std. Constr. Dwgs. GR-1.1M, GR-1.2M and other Drawings pertaining to design of specific guardrail types.

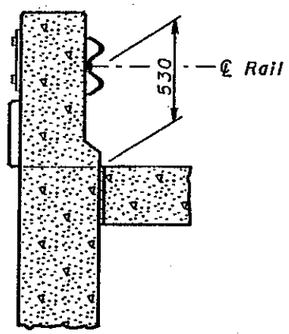
APPLICATION:
The Type 2 Bridge Terminal Assembly shall be used to connect guardrail runs to the trailing end of bridge parapets or other concrete barrier installations on one-direction roadways.

POSTS:
Posts shall be of standard size and material specified for the appropriate type of guardrail to be installed leaving the bridge or barrier.

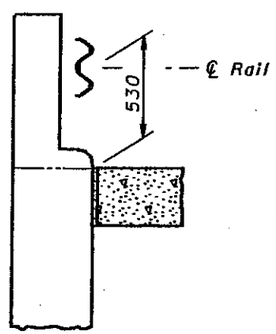
PAYMENT:
Payment for Item 606 - Each, Bridge Terminal Assembly, Type 2 shall include the extra cost, in excess of normal guardrail cost, for terminal connector, steel plate, bolts, hex nuts, washers and other hardware.



DETAIL A



SECTION A - A



SECTION B - B

metric units

BUREAU OF LOCATION AND DESIGN
OHIO DEPARTMENT OF TRANSPORTATION

BRIDGE TERMINAL ASSEMBLY, TYPE 2

DATE 11-30-94

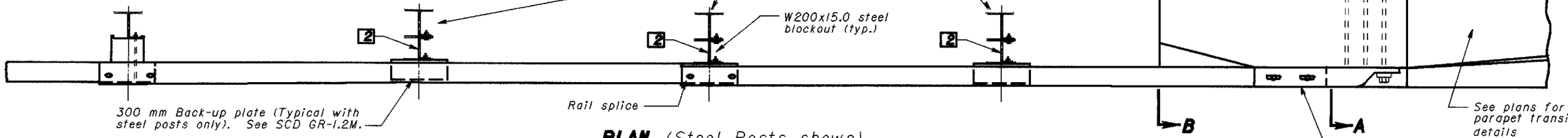
STANDARD CONSTRUCTION DRAWING **GR-3.2M**

APPROVED D.K. Hulman
ENGR., L & D

LEGEND

1 See SCD GR-1.2M for additional post embedment details.

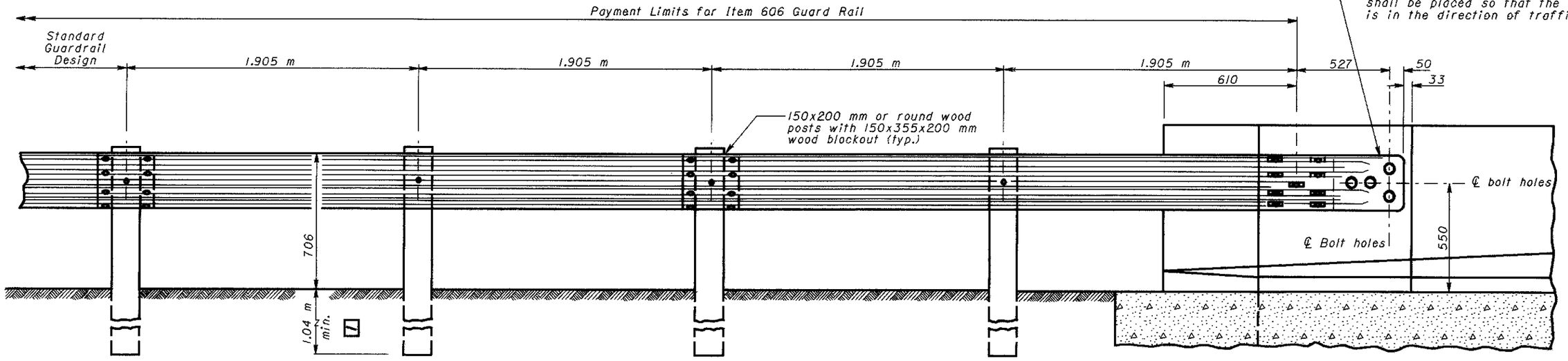
2 Plastic blockouts shall not be permitted for Type 2 Bridge Terminal Assemblies.



22 mm dia. ASTM A 325M through bolts (length to be determined in field in accordance with parapet width) in 25 mm dia. holes with 280x254x15.9 mm plate with standard washers and hex nuts (see Detail "A")

PLAN (Steel Posts shown)

The W-Beam terminal connector shall be placed so that the lap is in the direction of traffic.



ELEVATION (Wood Posts shown)

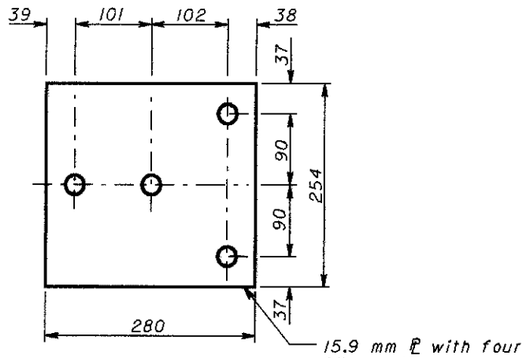
NOTES

GENERAL:
For additional details, see SCD's GR-1.1M, GR-1.2M and other drawings pertaining to the design of specific guardrail types.

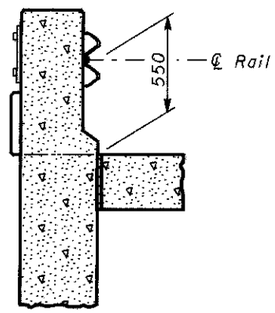
APPLICATION:
The Type 2 Bridge Terminal Assembly shall be used to connect guardrail runs to the trailing end of bridge parapets or other concrete barrier installations on one-direction roadways.

POSTS:
Posts shall be of standard size and material specified for the appropriate type of guardrail to be installed leaving the bridge or barrier.

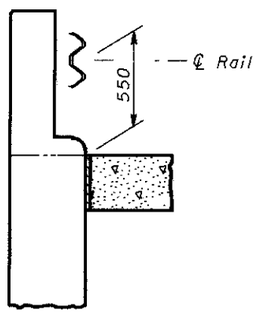
PAYMENT:
Payment for Item 606 - Each, Bridge Terminal Assembly, Type 2 shall include the extra cost, in excess of normal guardrail cost, for the terminal connector, steel blockouts, plates, bolts, hex nuts, washers and other hardware.



DETAIL A



SECTION A - A



SECTION B - B

All dimensions are in millimeters unless otherwise noted.

metric units

This Drawing Replaces GR-3.2.

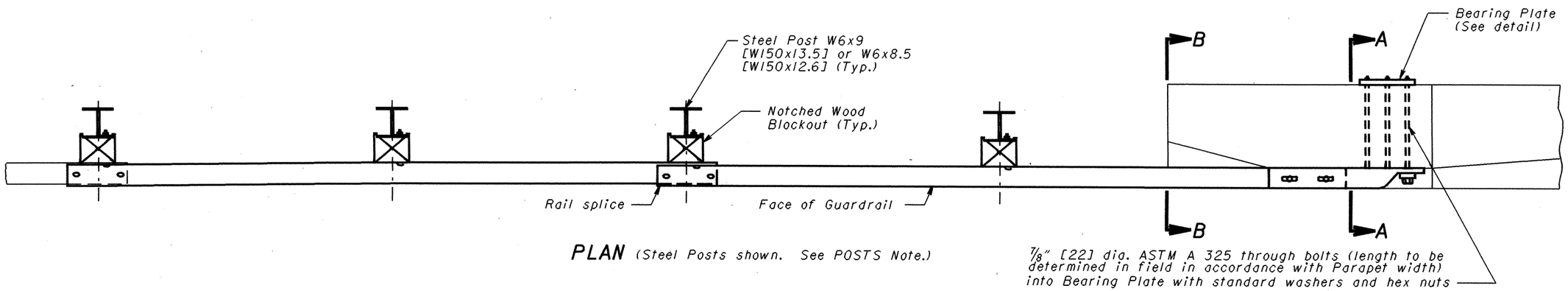
OHIO DEPARTMENT OF TRANSPORTATION

BRIDGE TERMINAL ASSEMBLY, TYPE 2

DATE
11-30-94
10-21-97

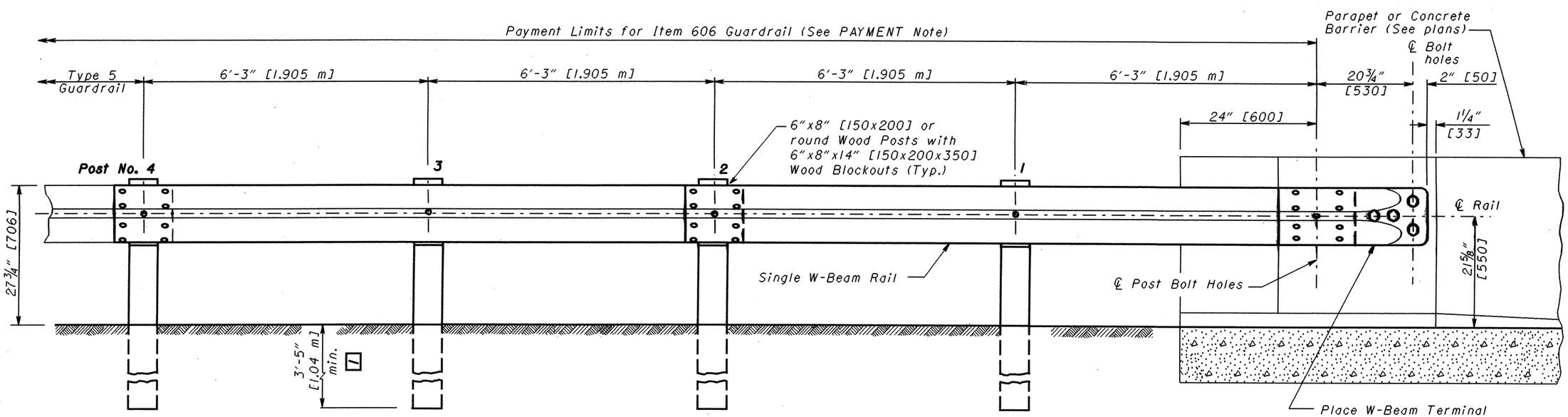
STANDARD CONSTRUCTION DRAWING **GR-3.2M**

APPROVED Lawrence D. Sutherland

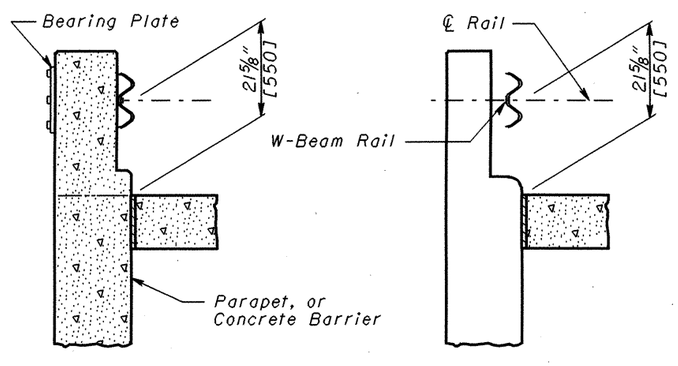


PLAN (Steel Posts shown. See POSTS Note.)

7/8" [22] dia. ASTM A 325 through bolts (length to be determined in field in accordance with Parapet width) into Bearing Plate with standard washers and hex nuts

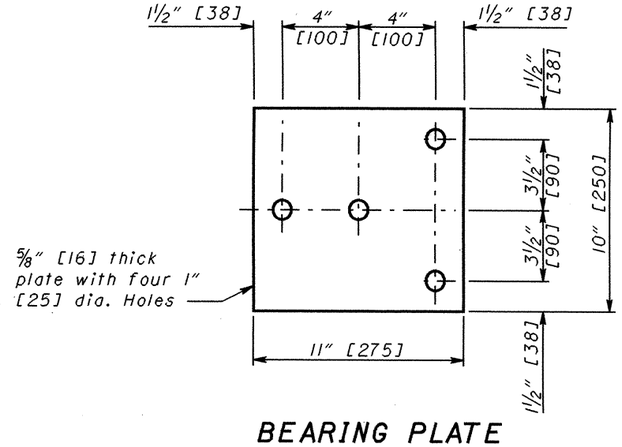


ELEVATION (Wood Posts shown. See POSTS Note.)



SECTION A-A

SECTION B-B



BEARING PLATE

NOTES

GENERAL: For additional rail and post details, see **SCD GR-1.1.**

APPLICATION: Use Type 2 Bridge Terminal Assembly to connect guardrail runs to the trailing end of Parapets or Concrete Barriers (see **SCD RM-4.6** for barrier) on one-directional roadways. Do not use if located within clear zone of opposing traffic.

POSTS: Posts shall be of standard size and material specified for the appropriate type of guardrail to be installed leaving the bridge or barrier. For Type 5 guardrail, see **SCD GR-2.1.**

BLOCKOUTS: Use Wood Blockouts only. Steel or plastic blockouts are not permitted.

FLARED GUARDRAIL: Begin Standard Guardrail Flares as shown on **SCD GR-5.1,** preferably at or beyond Post No. 4; however, the flare may begin at Post No. 2.

PAYMENT: **Item 606 - Bridge Terminal Assembly, Type 2, Each.** includes the cost of extra components, in excess of normal guardrail, for the Terminal connector, Bearing Plates, bolts, washers, nuts, and other hardware.

THIS DRAWING REPLACES GR-3.2M DATED 10-21-97.

OHIO DEPARTMENT OF TRANSPORTATION — DATE: 4-18-03
ROADWAY DESIGN ENGINEER — Larry T. Sutherland
STDS. ENGR. — D. Focke
All metric dimensions (in brackets [ ]) are in millimeters unless otherwise noted.

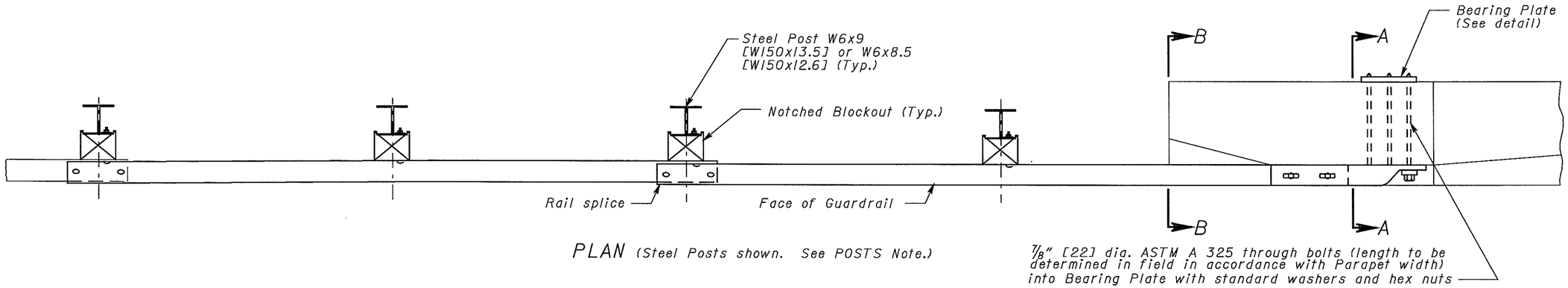
ROADWAY ENGINEERING SERVICES

STANDARD ROADWAY CONSTRUCTION DRAWING

BRIDGE TERMINAL ASSEMBLY, TYPE 2

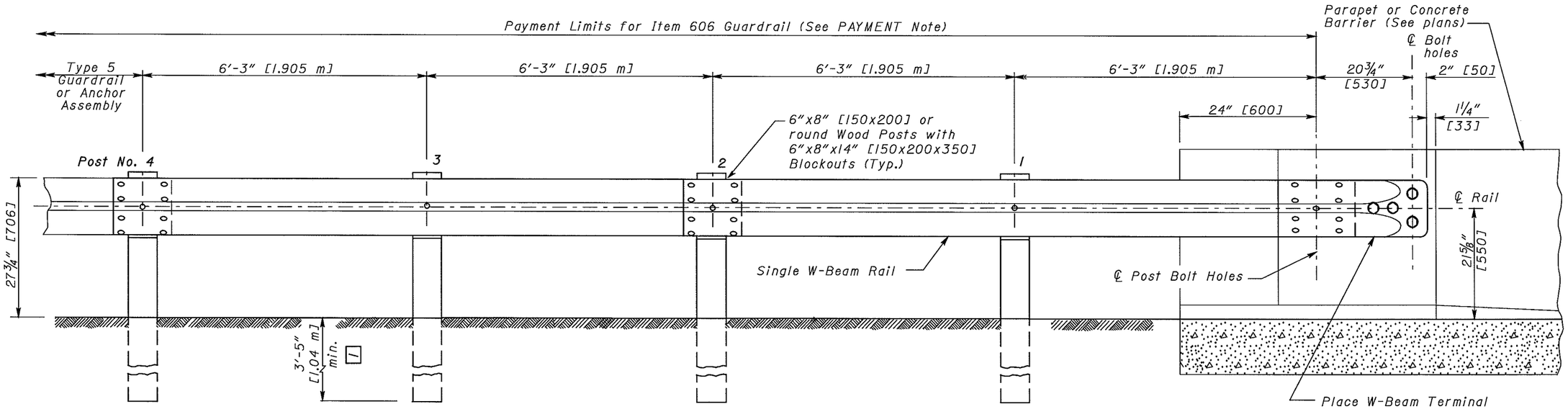
NUMBER GR-3.2

1 / 1

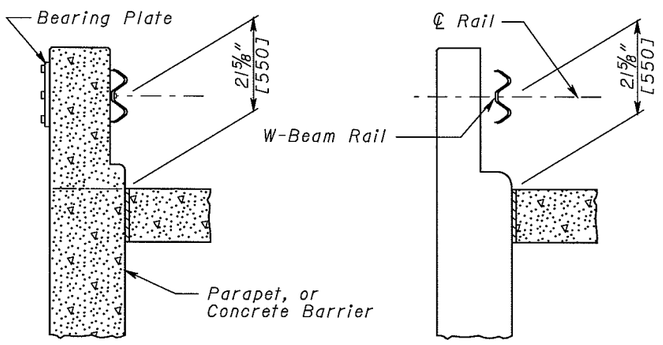


PLAN (Steel Posts shown. See POSTS Note.)

7/8" [22] dia. ASTM A 325 through bolts (length to be determined in field in accordance with Parapet width) into Bearing Plate with standard washers and hex nuts

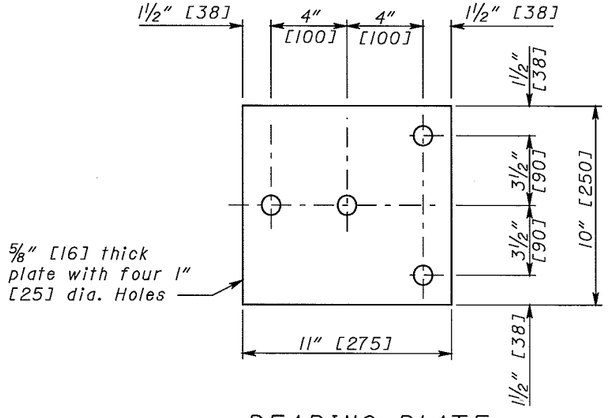


ELEVATION (Wood Posts shown. See POSTS Note.)



SECTION A-A

SECTION B-B



BEARING PLATE

NOTES

GENERAL: For additional rail and post details, see **SCD GR-1.1.**

APPLICATION: Use Type 2 Bridge Terminal Assembly to connect guardrail runs to the trailing end of Parapets or Concrete Barriers (see **SCD RM-4.6** for barrier) on one-directional roadways. Do not use if located within clear zone of opposing traffic.

POSTS: Posts shall be of standard size and material specified for the appropriate type of guardrail to be installed leaving the bridge or barrier. For Type 5 guardrail, see **SCD GR-2.1.**

BLOCKOUTS: Wood or plastic blockouts are permitted.

FLARED GUARDRAIL: Begin Standard Guardrail Flares as shown on **SCD GR-5.1,** preferably at or beyond Post No. 4; however, the flare may begin at Post No. 2.

PAYMENT: **Item 606 - Bridge Terminal Assembly, Type 2, Each.** includes the cost of extra components, in excess of normal guardrail, for the Terminal connector, Bearing Plates, bolts, washers, nuts, and other hardware.

THIS DRAWING REPLACES GR-3.2 DATED 4-18-03.

OHIO DEPARTMENT OF TRANSPORTATION
Dick Bruno
ROADWAY DESIGN ENGINEER
1-19-07
DATE

STDS. ENGR. D. Focke

All metric dimensions (in brackets [ ]) are in millimeters unless otherwise noted.

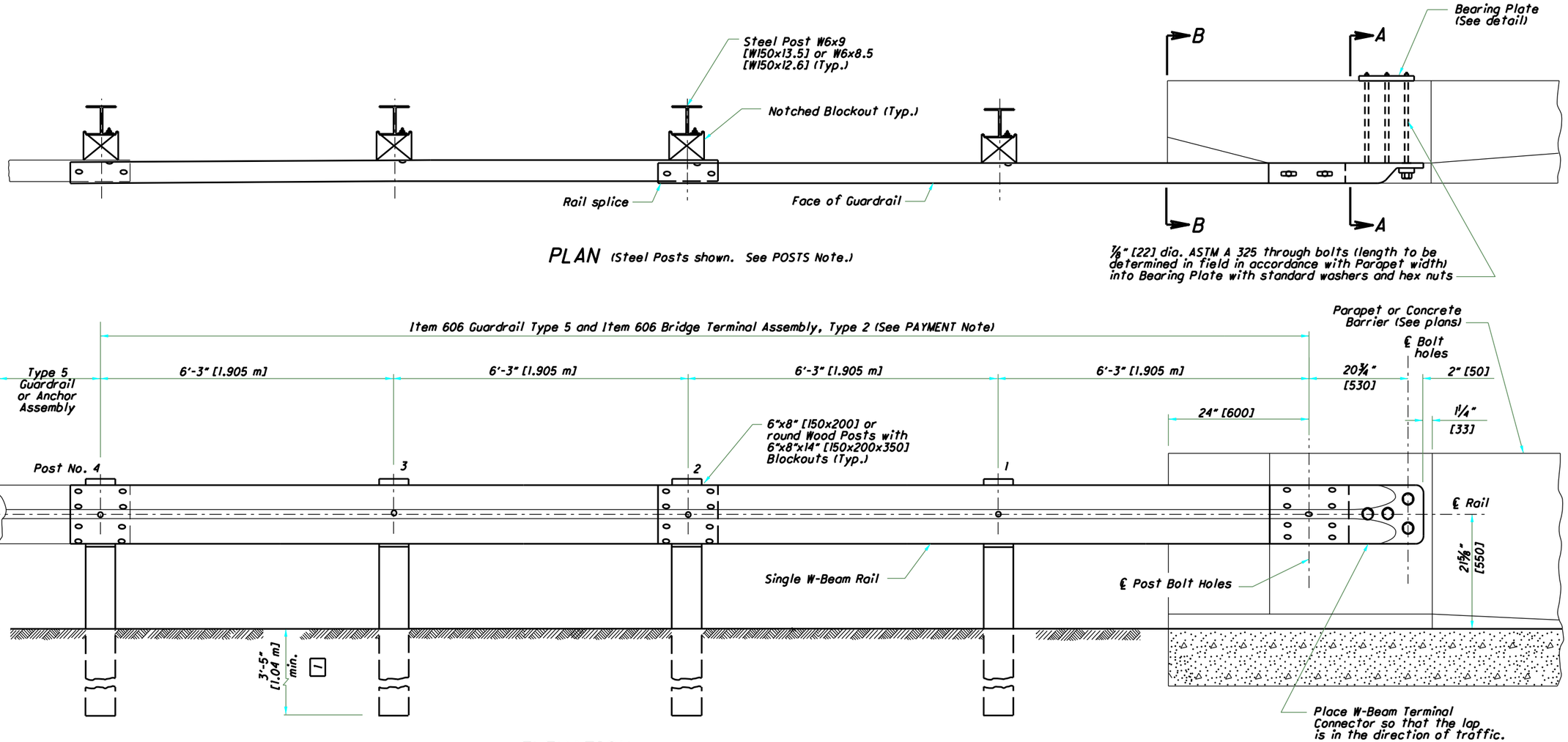
ROADWAY ENGINEERING SERVICES

STANDARD ROADWAY CONSTRUCTION DRAWING

BRIDGE TERMINAL ASSEMBLY, TYPE 2

NUMBER GR-3.2

1 / 1



NOTES

GENERAL: For additional rail and post details, see **SCD GR-1.1.**

APPLICATION: Use Type 2 Bridge Terminal Assembly to connect guardrail runs to the trailing end of Parapets or Concrete Barriers (see **SCD RM-4.6** for barrier) on one-directional roadways. Do not use if located within clear zone of opposing traffic.

POSTS: Posts shall be of standard size and material specified for the appropriate type of guardrail to be installed leaving the bridge or barrier. For Type 5 guardrail, see **SCD GR-2.1.**

BLOCKOUTS: Wood or plastic blockouts are permitted.

FLARED GUARDRAIL: Begin Standard Guardrail Flares as shown on **SCD GR-5.1,** preferably at or beyond Post No. 4, however, the flare may begin at Post No. 2.

PAYMENT: **Item 606 - Bridge Terminal Assembly, Type 2, Each.** includes the cost of extra components, in excess of normal guardrail for the Terminal connector, Bearing Plates, bolts, washers, nuts, and other hardware.

THIS DRAWING REPLACES GR-3.2 DATED 1-19-07.

STATE OF OHIO DEPARTMENT OF TRANSPORTATION
Dirk B. Bruns — ADMINISTRATOR
10-16-09 DATE

STDS. ENGINEER: M. Bline

ALL METRIC DIMENSIONS ( ) IN BRACKETS [ ] ARE IN MILLIMETERS UNLESS OTHERWISE NOTED.

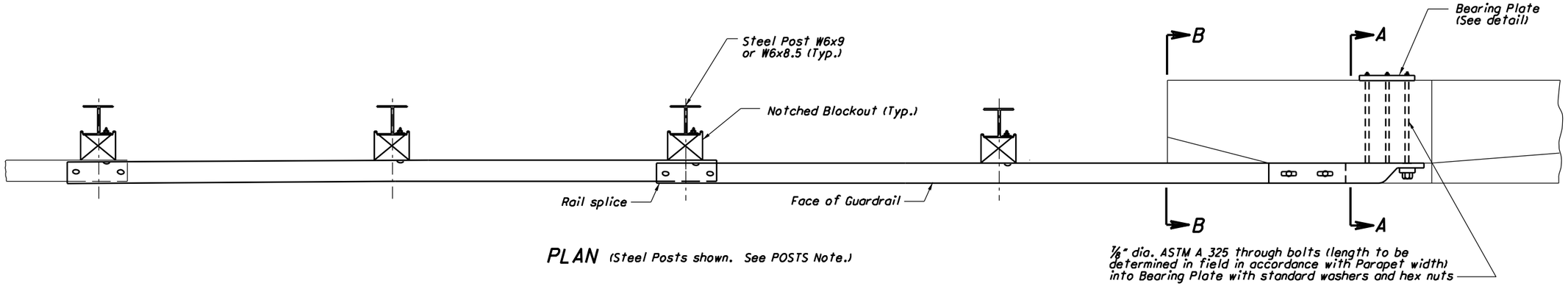
OFFICE OF ROADWAY ENGINEERING

STANDARD ROADWAY CONSTRUCTION DRAWING

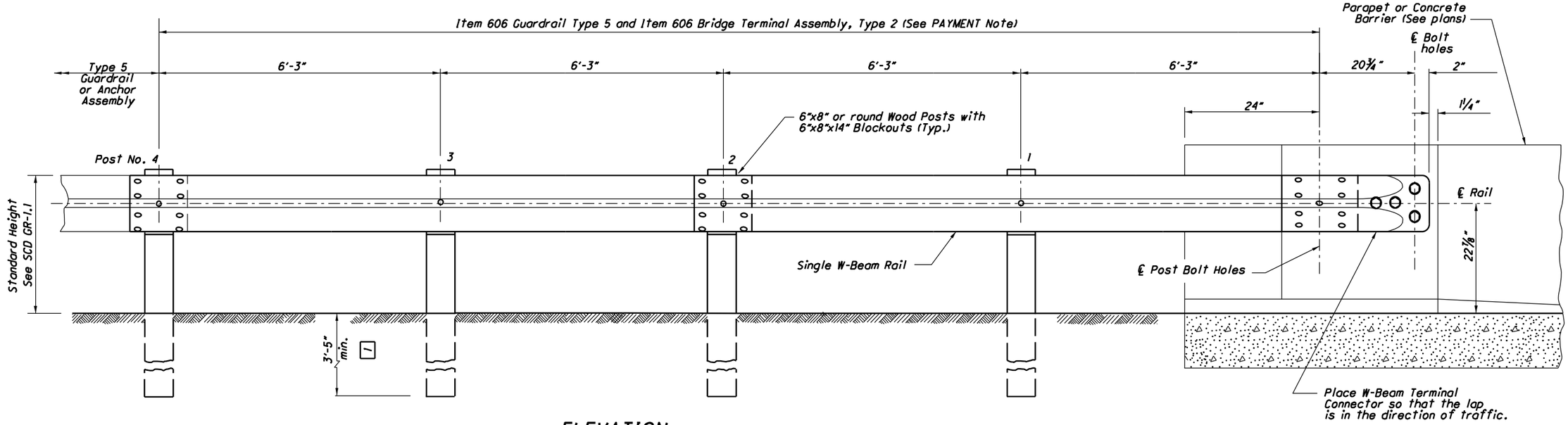
BRIDGE TERMINAL ASSEMBLY, TYPE 2

SCD NUMBER: GR-3.2

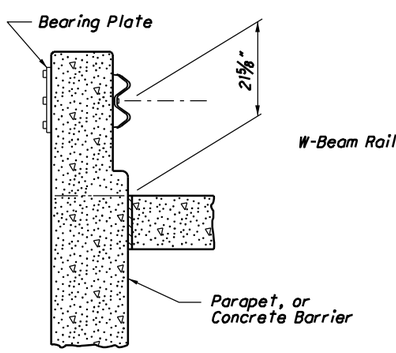
1 / 1



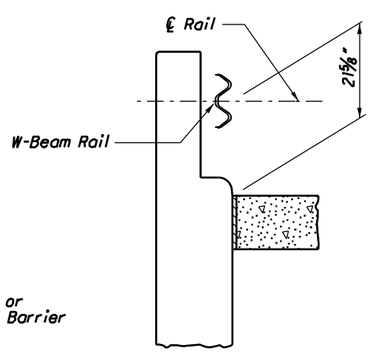
PLAN (Steel Posts shown. See POSTS Note.)



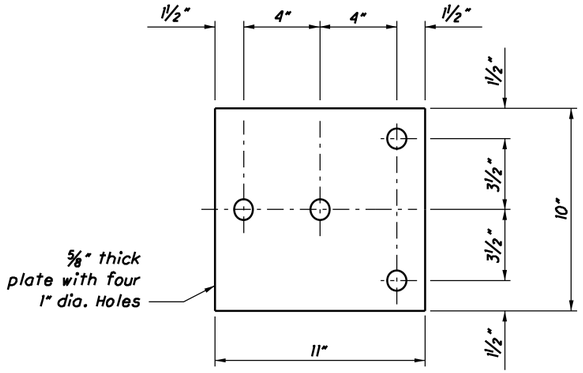
ELEVATION (Wood Posts shown. See POSTS Note.)



SECTION A-A



SECTION B-B



BEARING PLATE

NOTES

GENERAL: For additional rail and post details, see **SCD GR-1.1.**

APPLICATION: Use Type 2 Bridge Terminal Assembly to connect guardrail runs to the trailing end of Parapets or Concrete Barriers (see **SCD RM-4.6** for barrier) on one-directional roadways. Do not use if located within clear zone of opposing traffic.

POSTS: Posts shall be of standard size and material specified for the appropriate type of guardrail to be installed leaving the bridge or barrier. For Type 5 guardrail, see **SCD GR-2.1.**

BLOCKOUTS: Wood or plastic blockouts are permitted.

FLARED GUARDRAIL: Begin Standard Guardrail Flares as shown on **SCD GR-5.1,** preferably at or beyond Post No. 4, however, the flare may begin at Post No. 2.

PAYMENT: **Item 606 - Bridge Terminal Assembly, Type 2, Each.** includes the cost of extra components, in excess of normal guardrail for the Terminal connector, Bearing Plates, bolts, washers, nuts, and other hardware.

THIS DRAWING REPLACES GR-3.2 DATED 10-16-09.

STATE OF OHIO DEPARTMENT OF TRANSPORTATION
Michael Blume — 7-20-12
ADMINISTRATOR — DATE

STDS. ENGINEER: M. Ruppe

OFFICE OF ROADWAY ENGINEERING

STANDARD ROADWAY CONSTRUCTION DRAWING

BRIDGE TERMINAL ASSEMBLY, TYPE 2

SCD NUMBER GR-3.2

1 / 1