CORRUGATED BEAM FABRICATION STANDARD SHEETS

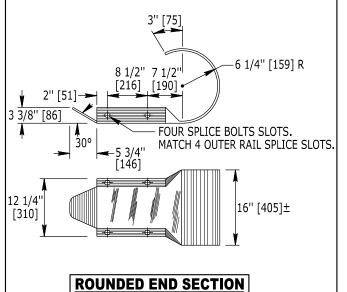
INDEX OF SHEETS

- MGS Rail End Sections and Hole Details
- Standard Rail Elements
- Transition Rail Elements
- Special MSKT, FLEAT, and SOFTSTOP Rail Elements
- 5. Post Details
- Blockouts and Reflective Tab 6.
- Transition A & B SBR Connectors
- Transition A & B Lower Angle Assembly
- Transition A Upper Angle Assembly
- 10. Transition B Upper Angle Assembly
- 11. Transition C Connector Plate
- 12. Transition C Connector Plate (Con't.)
- 13. Transition D Connector Plate
- 14. Transition D Connector Plate (Con't.)
- 15. Transition F Connector Plate

30" [760] 3 3/8" [86] 0 25 1/2° OPTIONAL BEND (FOR CONNECTION TO BUFFER END SECTION) –29/32" x 3" [23x76] SPLICE BOLT SLOTS TYP. POST BOLT SLOT ⁻ 2 5/8'' [67] 3 1/2" [89] 12 1/4" [310] 6 1/8" 3 1/2" [89] [156] (5) - 1" [25] DIA. HOLES 7 1/4" 12 3/4" **←**2" [51] [324] [102]102]

W-BEAM CONNECTOR (END SHOE)

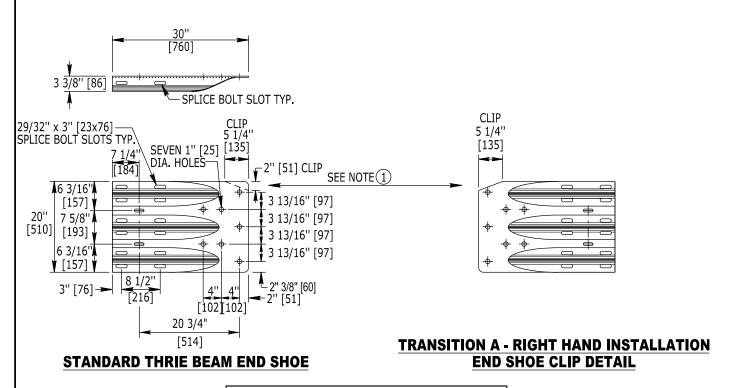
10 Gauge [3.5 Thick]



10 Gauge [3.5 Thick]

GENERAL NOTES:

- 1. All welding must be performed by certified welders using industry standard practices.
- 2. Galvanize after fabrication is complete.

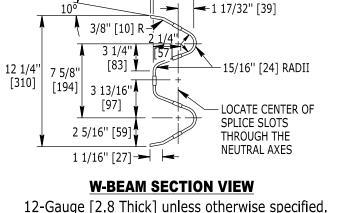


THRIE BEAM CONNECTOR (END SHOE)

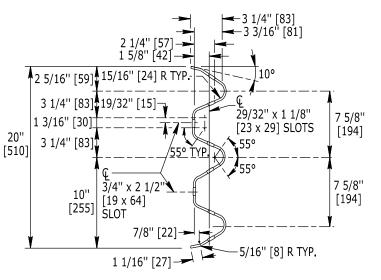
10 Gauge [3.5 Thick]

NOTE: ① For Transition A Only, clip corners as shown for either a left hand, or a right hand installation, as applicable.

WYOMING DEPARTMENT OF **TRANSPORTATION**

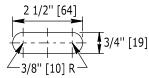


1/16" [2]**→**

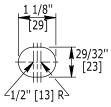


THRIE-BEAM SECTION VIEW

12-Gauge [2.8 Thick] unless otherwise specified.



TYPICAL POST BOLT SLOT



TYPICAL SPLICE BOLT SLOT

STANDARD CORRUGATED BEAM DETAILS

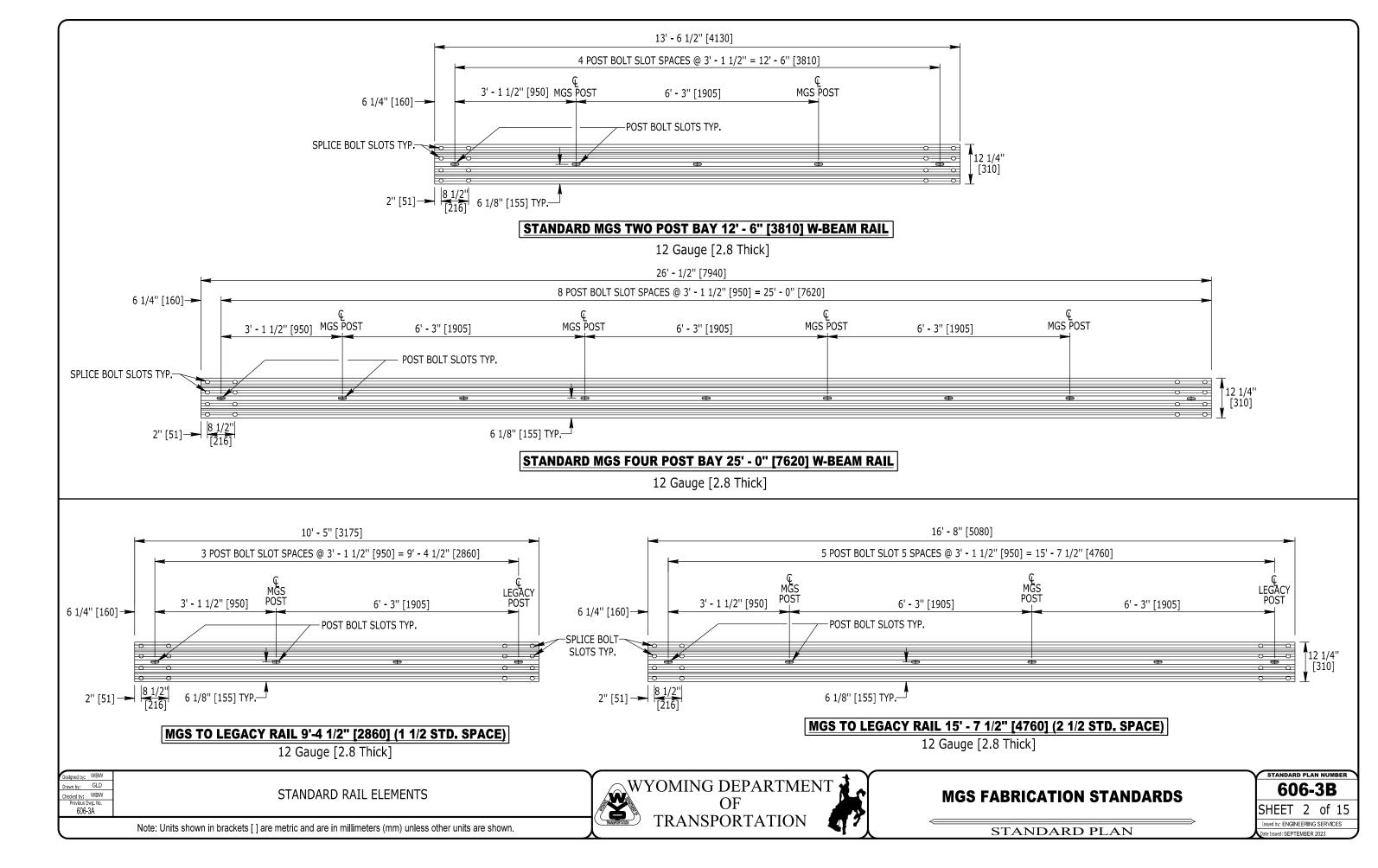
Designed by: WBW Drawn by: GLD MGS RAIL END SECTIONS AND HOLE DETAILS Checked by: WBW Previous Dwg. No.

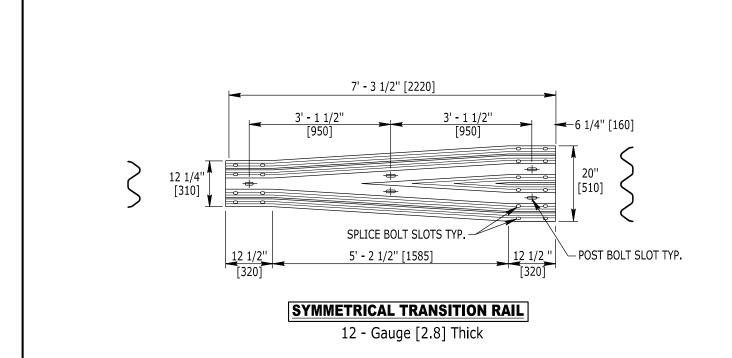
Note: Units shown in brackets [] are metric and are in millimeters (mm) unless other units are shown

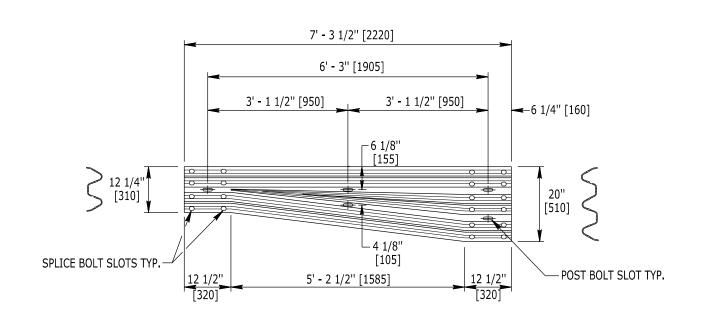
MGS FABRICATION STANDARDS

STANDARD PLAN

606-3B SHEET 1 of 15 ssued by: ENGINEERING SERVICES

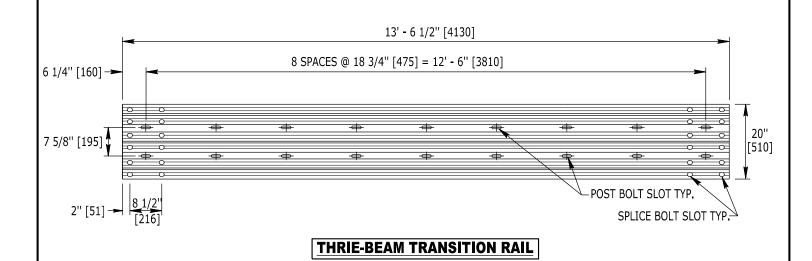


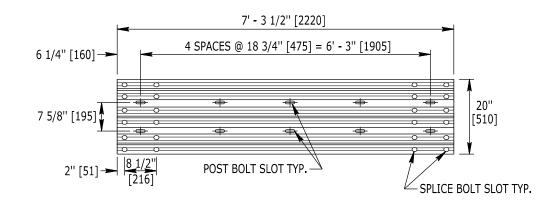




MGS ASYMMETRICAL TRANSITION RAIL

10 - Gauge [3.5] Thick





THRIE BEAM MGS SHORT TRANSITION RAIL

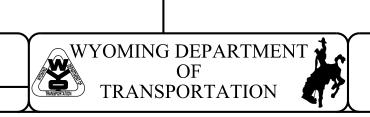
12 - Gauge [2.8] Thick

Designed by: WBW
Drawn by: GLD
Checked by: WBW
Previous Dwg. No.
606-3A

TRANSITION RAIL ELEMENTS

Note: Units shown in brackets [] are metric and are in millimeters (mm) unless other units are shown.

12 - Gauge [2.8] Thick



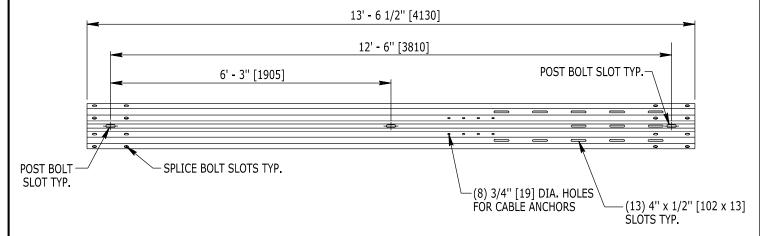
MGS FABRICATION STANDARDS

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STANDARD PLAN NUMBER

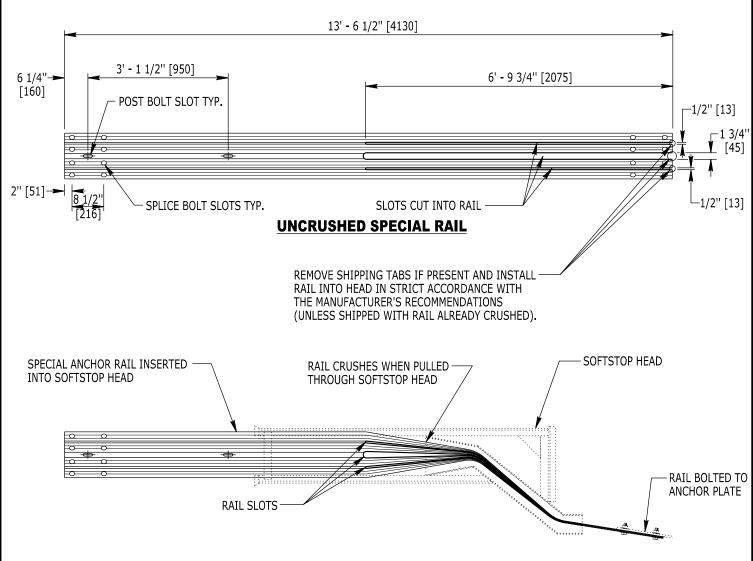
STANDARD PLAN

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FLEAT AND MSKT RAIL ELEMENT (12' - 6" [3810])

This rail element is the first rail element in the FLEAT and MSKT Terminals (POSTS 1 - 3). Details shown above are approximate. The special MSKT/FLEAT MGS Terminal rail element shown herein is proprietary and can only be manufactured and sold by Road Systems Inc. or its duly authorized representative.



SPECIAL SOFTSTOP ANCHOR RAIL ELEMENT (13' - 6 5/8" [4130])

This rail element is the first rail element in the SoftStop Terminal, it also acts as an anchor to hold the system in tension.

Details shown above are approximate. The special SoftStop Terminal rail element shown herein is proprietary and can only be manufactured and sold by Trinity Highway Products, LLC. or its duly authorized representative.

Designed by: WBW

Drawn by: GLD

Checked by: WBW

Previous Dwg. No.

606-3Å

SPECIAL MGS MSKT, FLEAT, AND SOFTSTOP RAIL ELEMENTS

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TRANSPORTATION

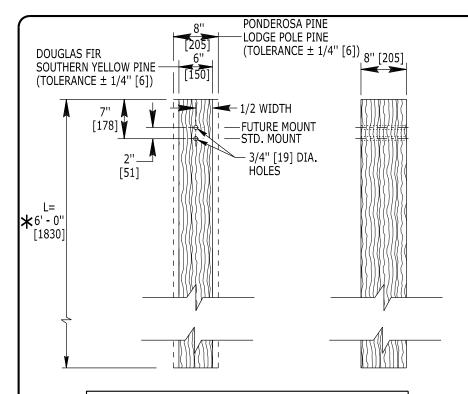
MGS FABRICATION STANDARDS

STANDARD PLAN

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SHEET 4 of 15

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Date Issued: SEPTEMBER 2023

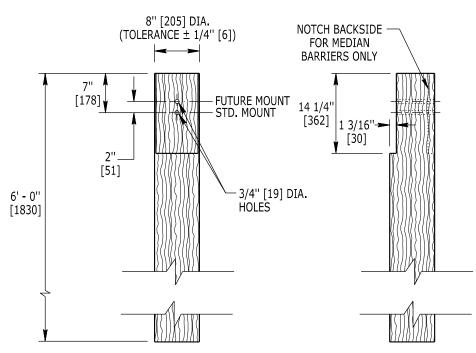


STANDARD MGS RECTANGULAR WOOD POST

Uses: Std. MGS Guardrail Post

Std. Legacy W-Beam Guardrail Post

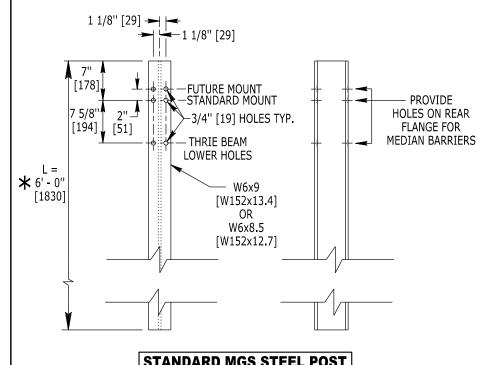
★NOTE: For MGS Long Post, L=7 1/2 ft [2285]



STANDARD MGS ROUND WOOD POST

Uses: Std. MGS Guardrail Post

Std. Legacy W-Beam Guardrail Post

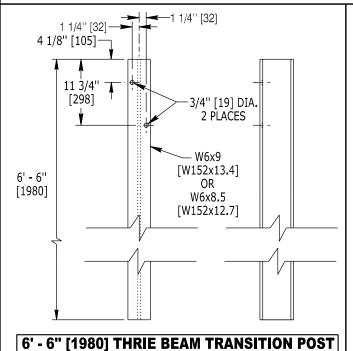


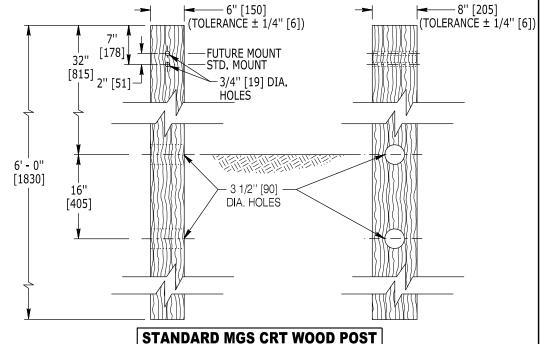
STANDARD MGS STEEL POST

Uses: Std. MGS Guardrail Post

Std. Legacy W-Beam Guardrail Post MGS Transitions A-D, post T7-T12

★ NOTE: For MGS Long Post, L=9 ft [2745]





Southern Yellow Pine or Douglas Fir Only!

Uses: Transitions A - F, Post T1 -T6

Designed by: WBW

606-3Å

Drawn by: GLD **POST DETAILS** Checked by: WBW
Previous Dwg. No.

WYOMING DEPARTMENT OF

MGS FABRICATION STANDARDS

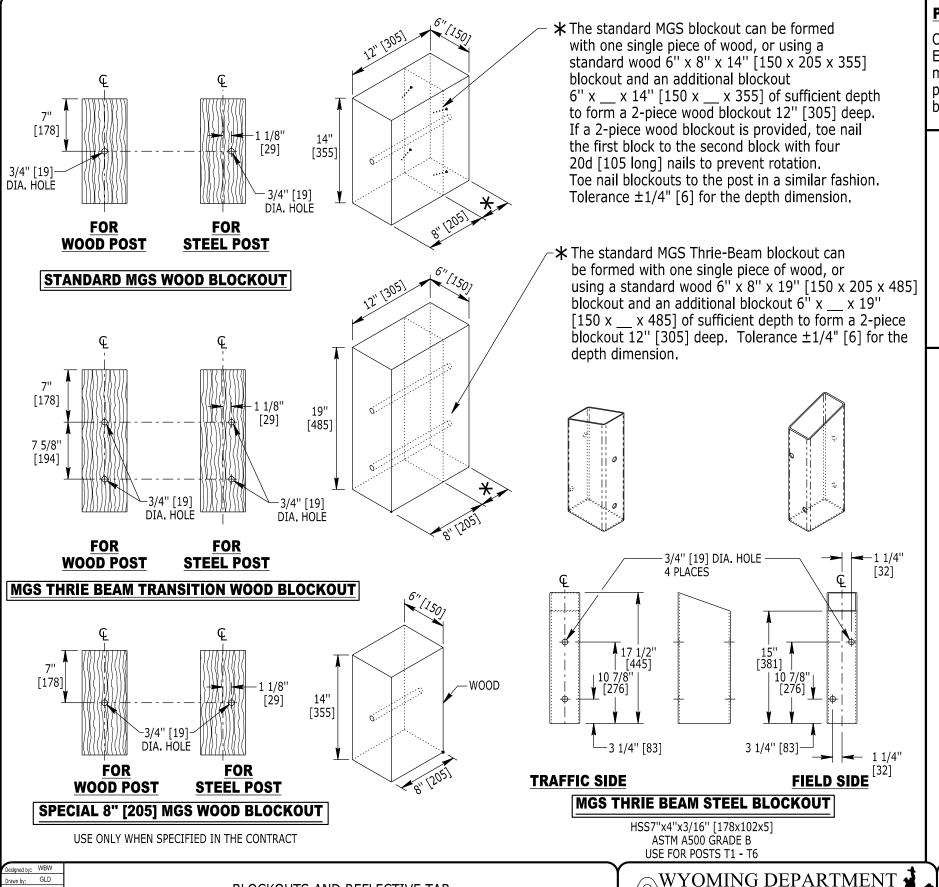
STANDARD PLAN

606-3B SHEET 5 of 15

STANDARD PLAN NUMBER

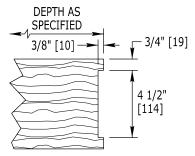
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Note: Units shown in brackets [] are metric and are in millimeters (mm) unless other units are shown.



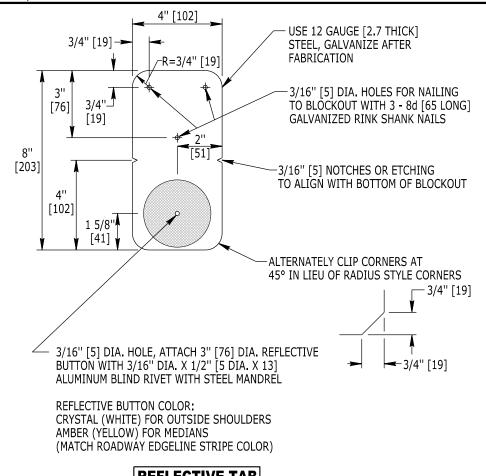
PLASTIC COMPOSITE BLOCKOUTS

One piece plastic composite blocks which have been crash tested to MASH, have FHWA Eligibility or Acceptance Letters **and are of the same overall dimensions shown herein**, may be substituted for **wood blocks with steel posts only**. Provide routing in blocks to prevent rotation on post. Attach reflective tabs to composite blockouts by pre-drilling blockouts and using three #8 Screws 1 1/4" [32] long.



ROUTING DETAIL FOR BLOCKOUTS

Routed wood blockouts may be provided for steel posts in lieu of toe nailing flat face blockouts to post.



REFLECTIVE TAB

Attach to blockout every 25 ft [7.6 m] of guardrail.



STANDARD PLAN

STANDARD PLAN NUMBER

606-3B

SHEET 6 of 15

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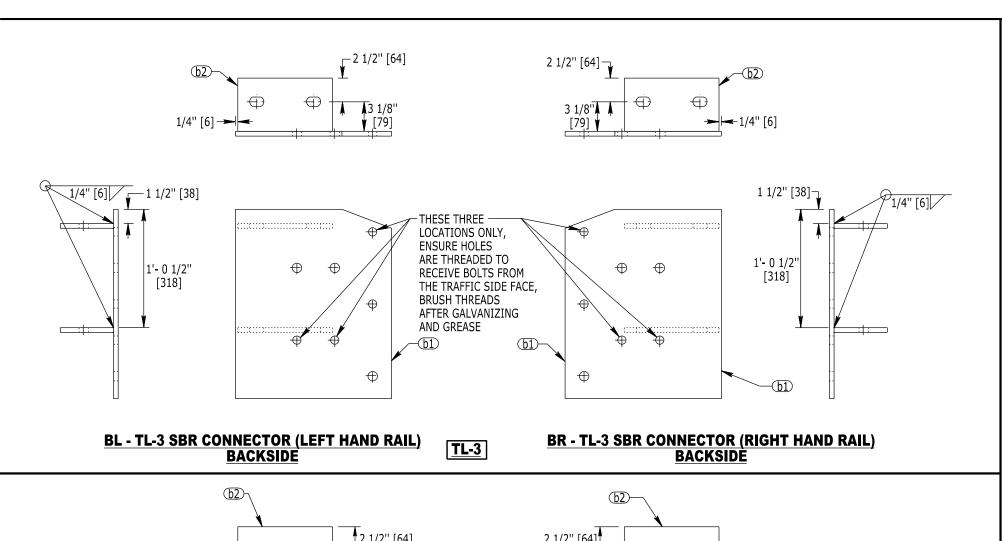
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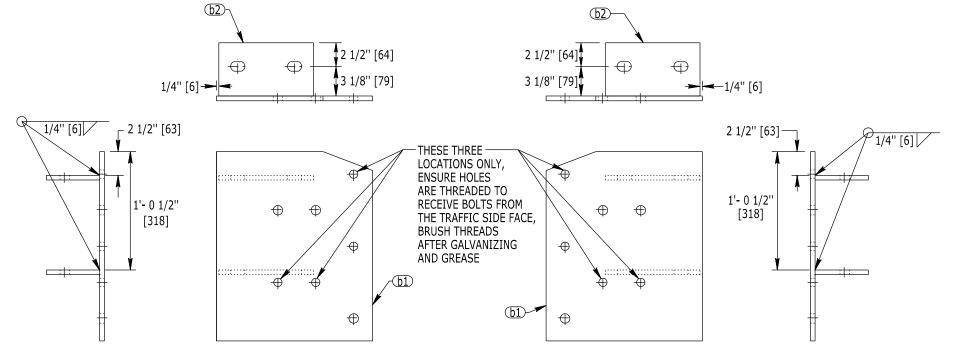
BLOCKOUTS AND REFLECTIVE TAB

Checked by: WBW Previous Dwg. No.

606-3Å

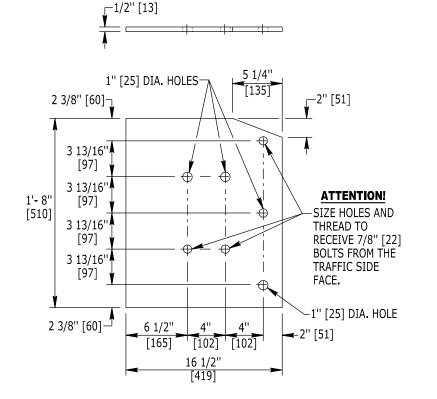
WYOMING DEPARTMENT OF TRANSPORTATION



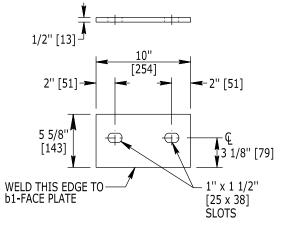


TL-4

ITEM	QTY	DESCRIPTION	MATERIAL
AL/AT	1	THRIE-BEAM END SHOE	10 GAGE
BL/BR	1	MOUNTING PLATE	
b1	1	FACE PLATE	1/2" [13] A36 PLATE
b2	2	BACK PLATE	1/2" [13] A36 PLATE



b1 - FACE PLATE



b2 - BACK PLATE

TRANSITION A & B SBR CONNECTORS

Note: Units shown in brackets [] are metric and are in millimeters (mm) unless other units are shown.

BL - TL-4 CONNECTOR (LEFT HAND RAIL)

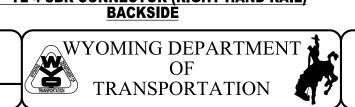
Designed by: WBW

Drawn by: GLD

Checked by: WBW
Previous Dwg. No.

606-3Å

BACKSIDE



BR - TL-4 SBR CONNECTOR (RIGHT HAND RAIL)

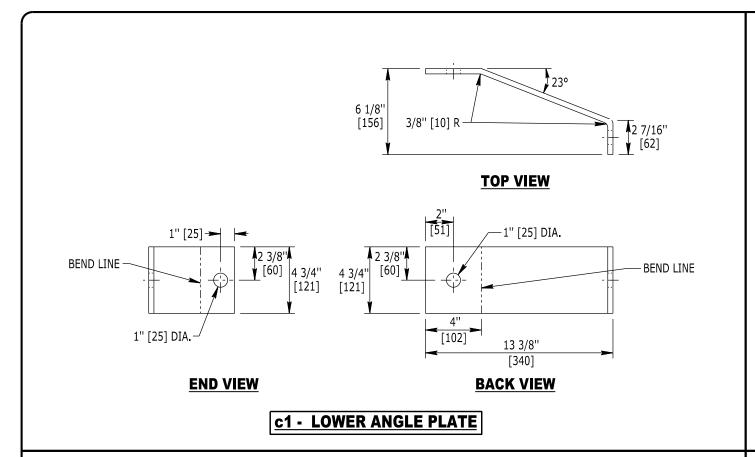
BACKSIDE

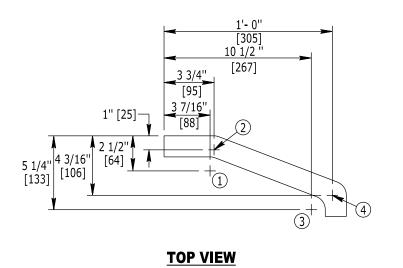
MGS FABRICATION STANDARDS

STANDARD PLAN

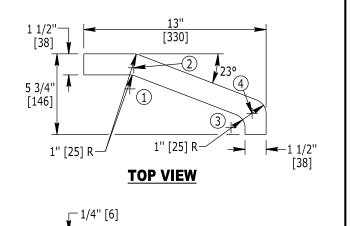
STANDARD PLAN NUMBER 606-3B SHEET 7 of 15

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ITEM	QTY	DESCRIPTION	MATERIAL
	1	LOWER ANGLE ASSEMBLY	
c1	1	LOWER ANGLE PLATE	3/8" [10] A36 PLATE
c2	1	GUSSET	1/4" [6] A36 PLATE



BACK VIEW

c2 - GUSSET

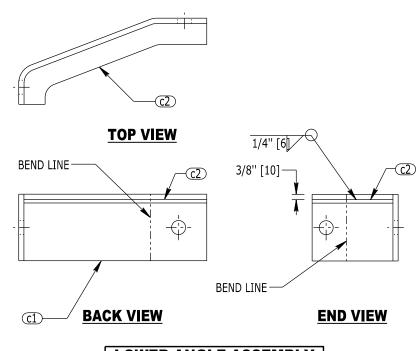
TOP VIEW | 3/8" [10] | BEND LINE

BEND LINE

END VIEW

LOWER ANGLE ASSEMBLY (LEFT HAND TRANSITION)

BACK VIEW



LOWER ANGLE ASSEMBLY (RIGHT HAND TRANSITION)

Designed by: WBW
Drawn by: GLD
Checked by: WBW
Previous Dwg. No.
606-3A

TRANSITION A & B LOWER ANGLE ASSEMBLY

WYOMING DEPARTMENT OF
TRANSPORTATION

MGS FABRICATION STANDARDS

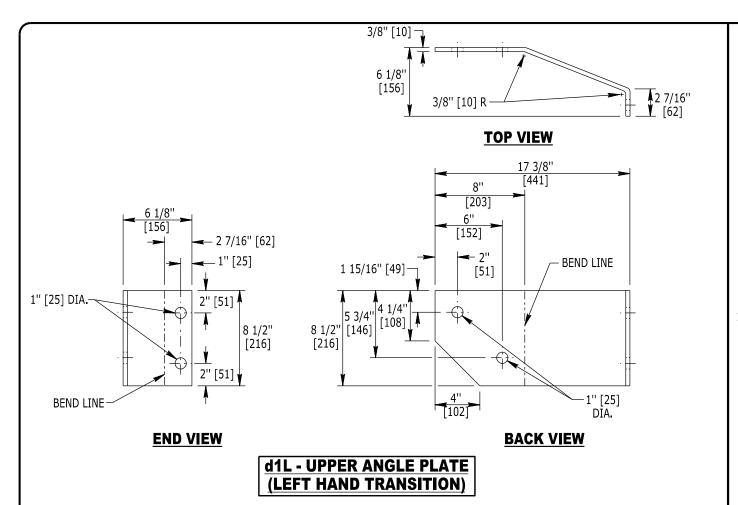
606-3BSHEET 8 of 15

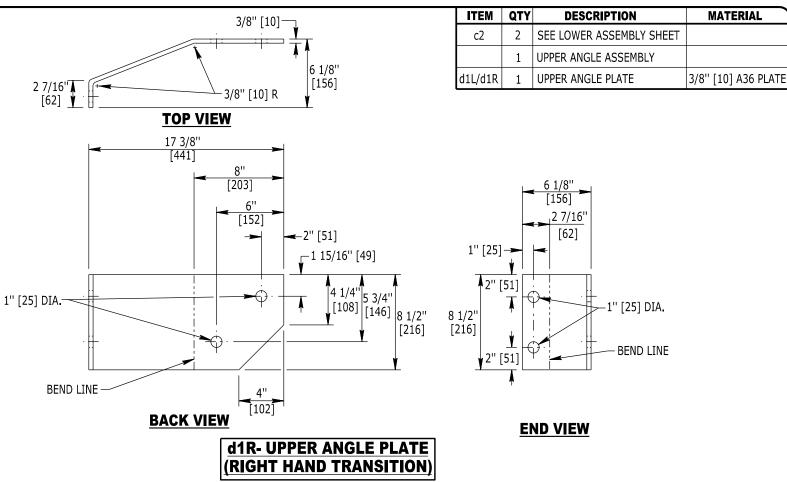
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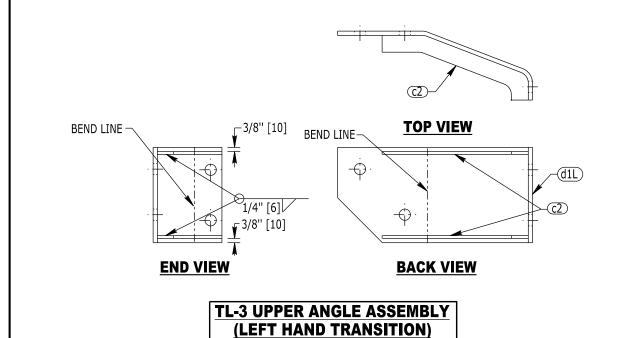
ssued by: ENGINEERING SERVICES

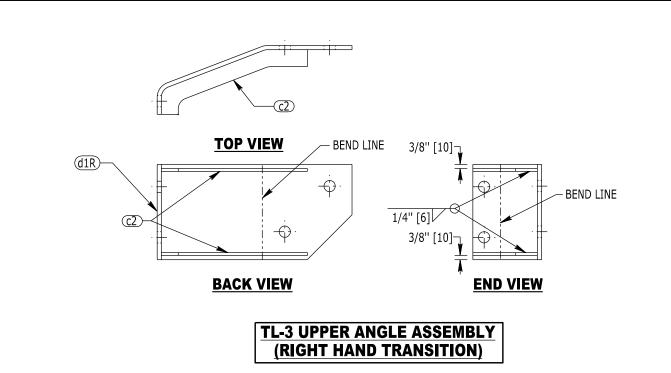
STANDARD PLAN

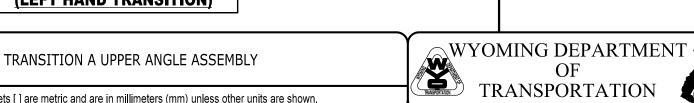
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MGS FABRICATION STANDARDS

606-3B SHEET 9 of 15 ssued by: ENGINEERING SERVICES

STANDARD PLAN NUMBER

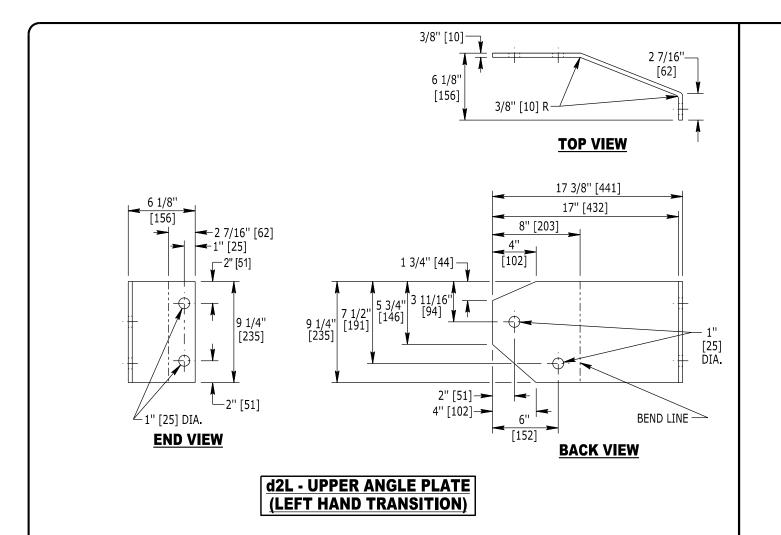
Note: Units shown in brackets [] are metric and are in millimeters (mm) unless other units are shown.

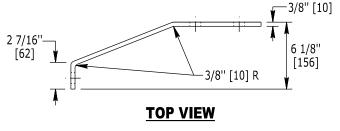
Designed by: WBW

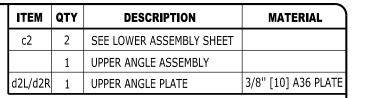
Drawn by: GLD

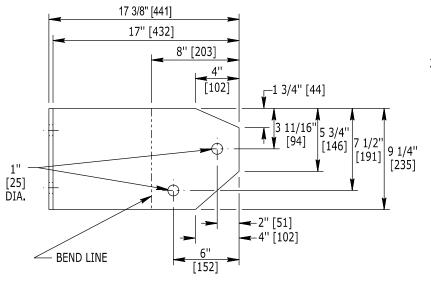
Checked by: WBW

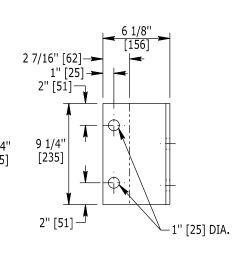
Previous Dwg. No.
606-3A











END VIEW

BACK VIEW

d2R - UPPER ANGLE PLATE

(RIGHT HAND TRANSITION)

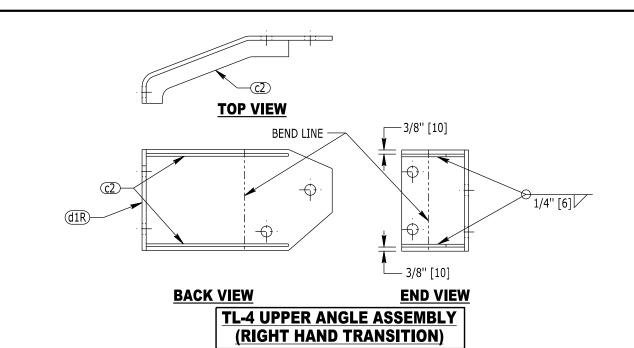
3/8" [10]

TOP VIEW

BEND LINE

3/8" [10]

BACK VIEW



Designed by: WBW
Drawn by: GLD
Checked by: WBW
Previous Dwg. No.
606-3A

TRANSITION B UPPER ANGLE ASSEMBLY

TL-4 UPPER ANGLE ASSEMBLY

(LEFT HAND TRANSITION)

WYOMING DEPARTMENT OF TRANSPORTATION

MGS FABRICATION STANDARDS

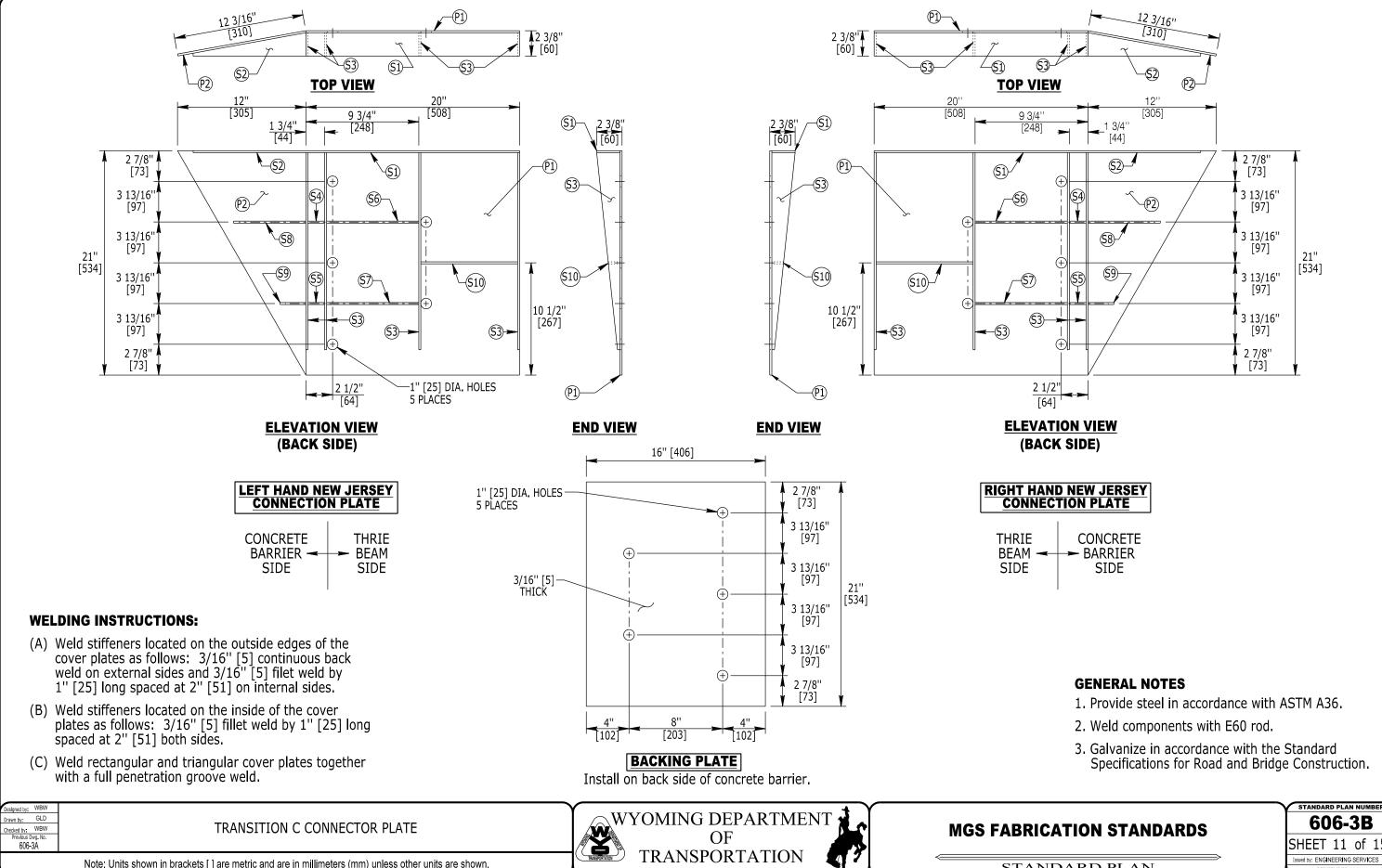
606-3B

SHEET 10 of 15

Issued by: ENGINEERING SERVICES

STANDARD PLAN NUMBER

Note: Units shown in brackets [] are metric and are in millimeters (mm) unless other units are shown.



Designed by: WBW Drawn by: GLD Checked by: WBW
Previous Dwg. No. 606-3Å

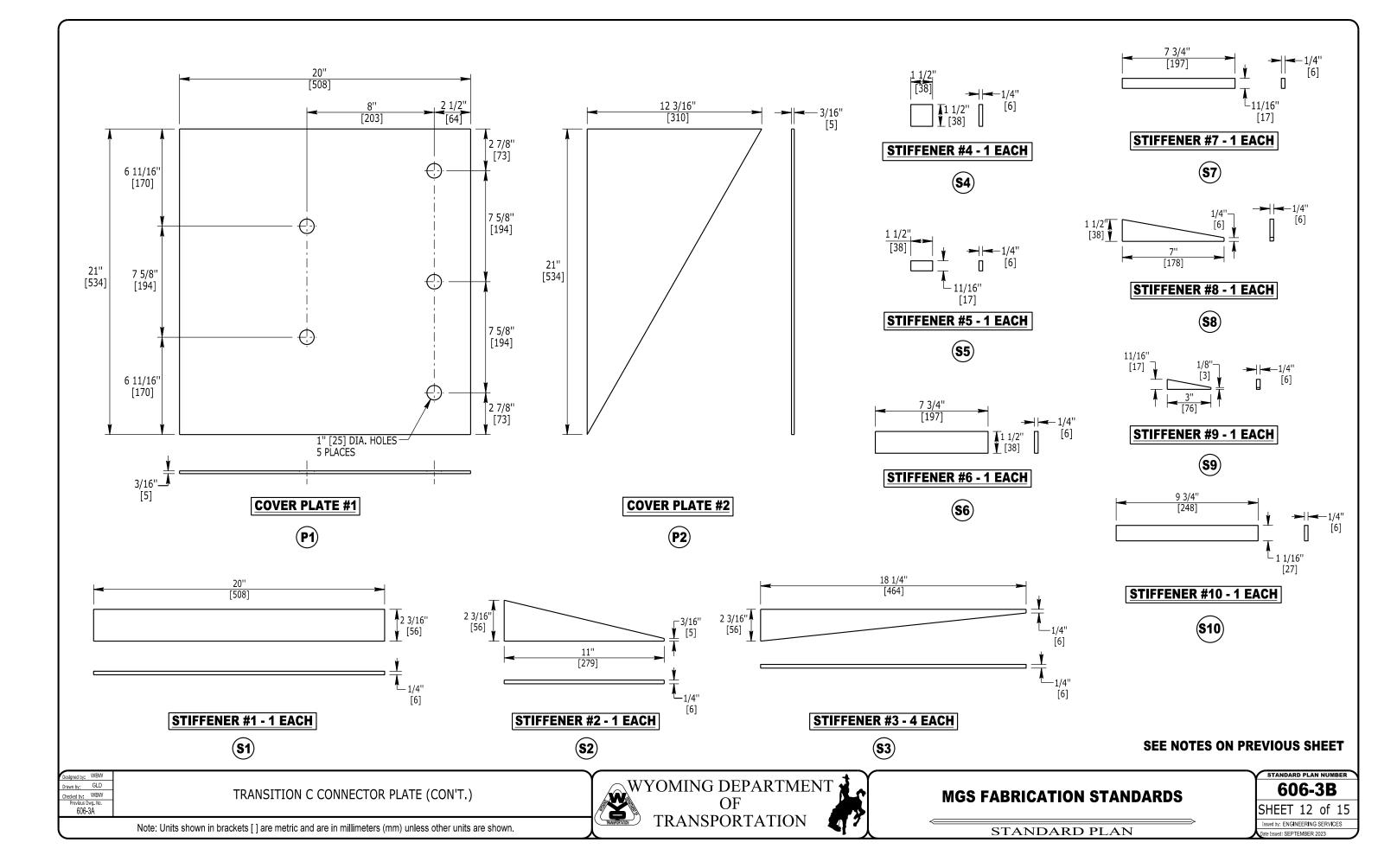
TRANSITION C CONNECTOR PLATE

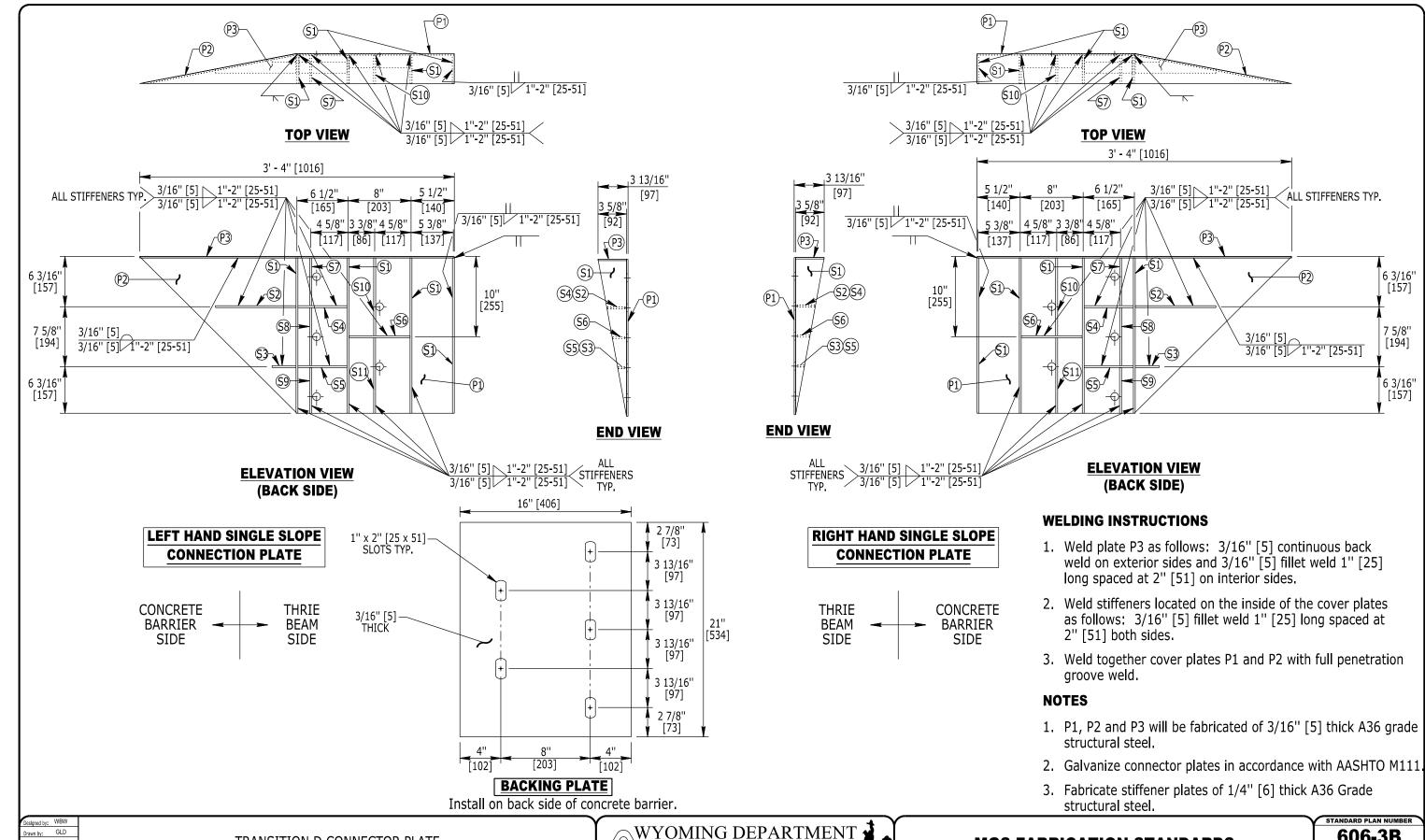
MGS FABRICATION STANDARDS

606-3B SHEET 11 of 15 ssued by: ENGINEERING SERVICES

STANDARD PLAN

Note: Units shown in brackets [] are metric and are in millimeters (mm) unless other units are shown.





TRANSITION D CONNECTOR PLATE

Note: Units shown in brackets [] are metric and are in millimeters (mm) unless other units are shown.

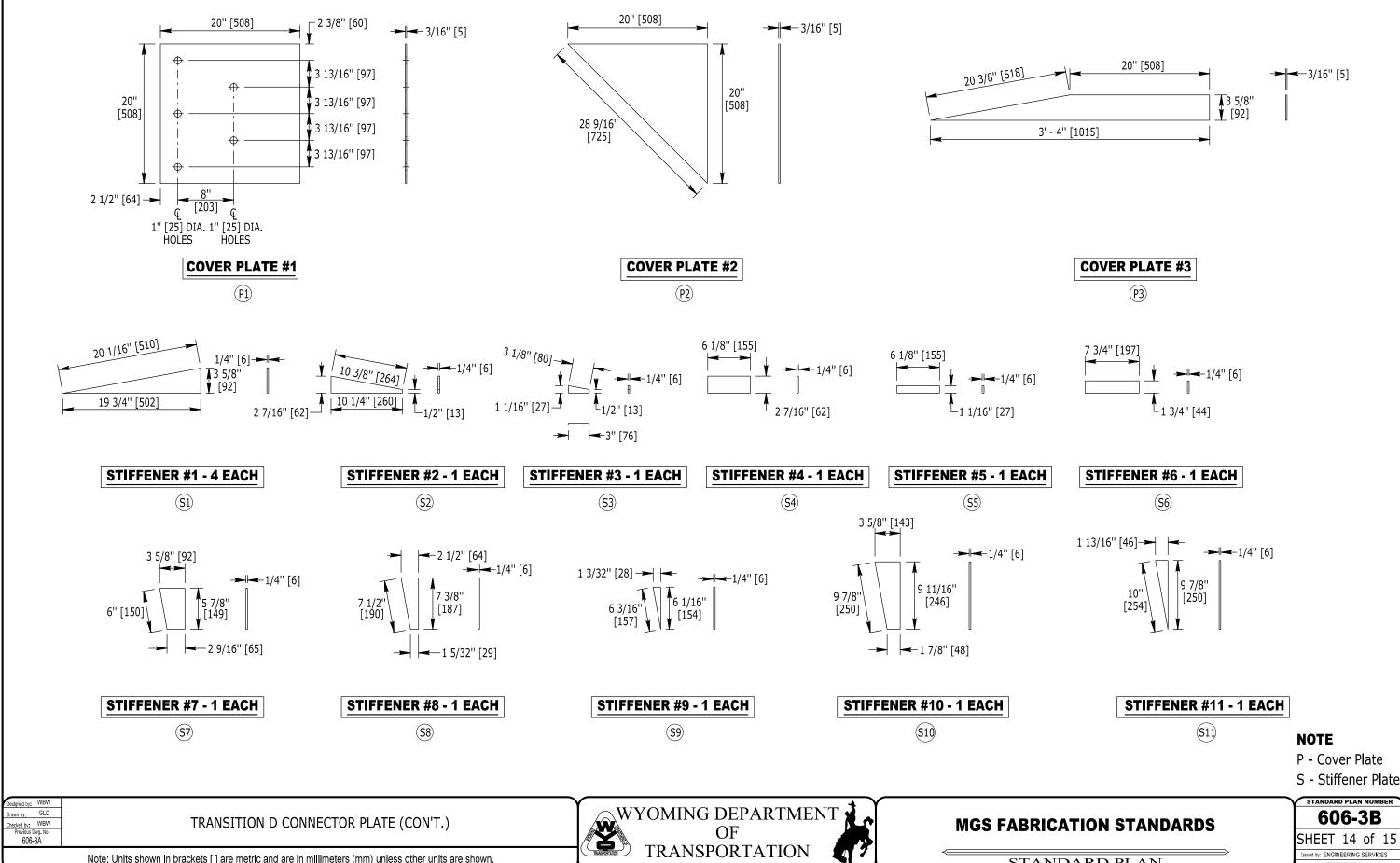
Checked by: WBW
Previous Dwg. No.

606-3A

WYOMING DEPARTMENT OF **TRANSPORTATION**

MGS FABRICATION STANDARDS

606-3B SHEET 13 of 15 ssued by: ENGINEERING SERVICES



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