H² PRE-CAST INC.
CONCRETE PRODUCTS

JUNCTION BOX - TYPE 8

CHECK REQUIRED SPECIFICATION	
	STANDARD
	WSDOT / STATE CONTRACT NUMBER _____
	SLIPNOT
	GALVANIZED DIAMOND PLATE
	BLACK

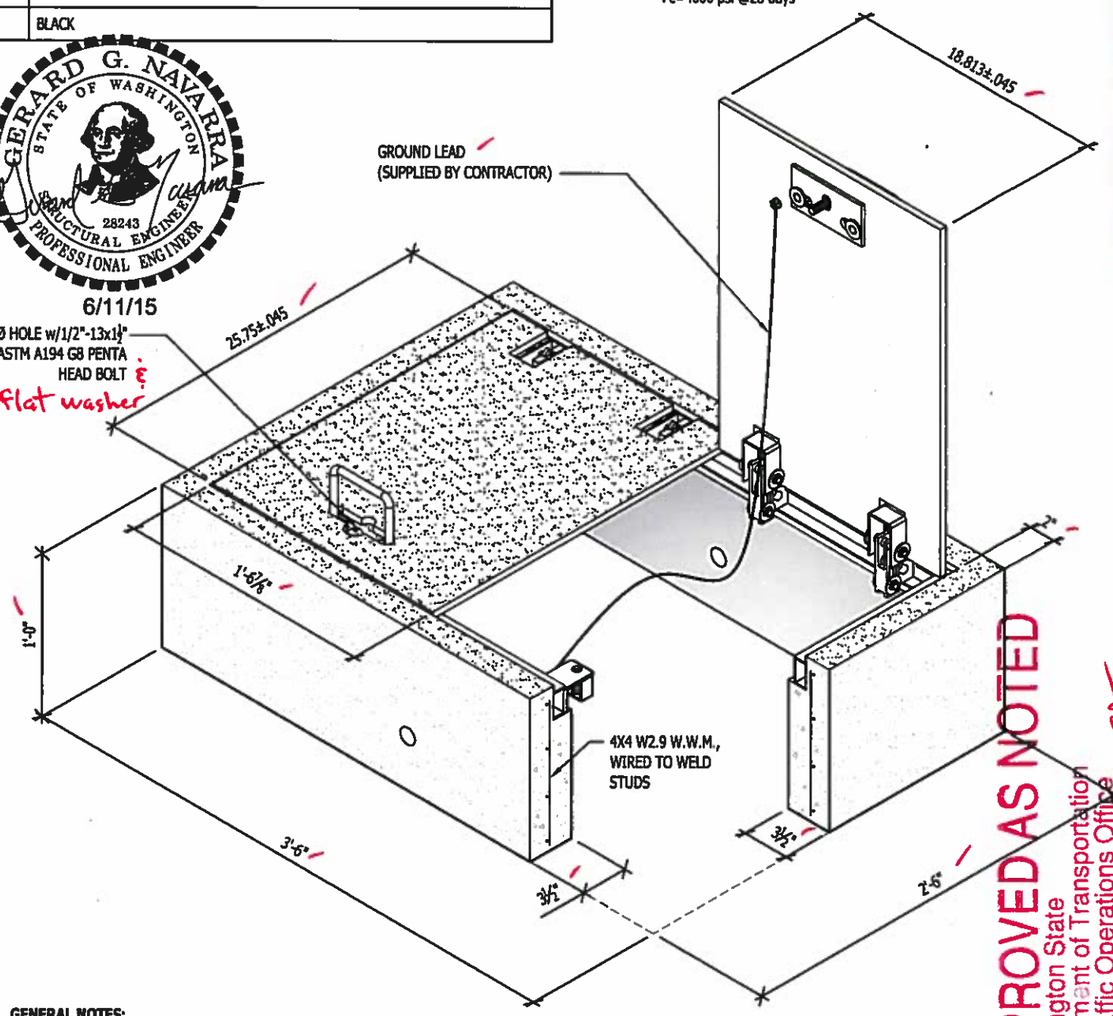
GENERAL NOTES:
LID TO BE TRAVIS INDUSTRIES PRODUCT, PART NUMBERS:
716-T802 - DIAMOND PLATE
716S0032 - SLIPNOT
FRAME PART #
716-T801 - DIAMOND PLATE
716-S0031 - SLIPNOT
CONCRETE w/FIBERMESH REINFORCING
f'c=4000 psi @28 days

lid & frame shall be hot-dip galvanized per 9-29.2(1)A

ELECTRIC

GERARD G. NAVARRA
STATE OF WASHINGTON
28243
STRUCTURAL ENGINEER
PROFESSIONAL ENGINEER

6/11/15



GENERAL NOTES:
THIS ASSEMBLY IS CONSTRUCTED AND TESTED TO CONFORM WITH WSDOT STANDARD SPECIFICATION 9-29.2(2), STANDARD DUTY JUNCTION BOXES

APPROVED AS NOTED
Washington State
Department of Transportation
HQ Traffic Operations Office
DATE June 17, 2015 TAT

H² Pre-Cast Inc.
3835 N. Clemons
East Wenatchee, WA

Phone: (509) 884-6644
Fax: (509) 884-4567
Web: www.h2precast.com

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This assembly is constructed and tested to conform with WSDOT Standard Specification 9-29.2(2), Standard Duty Junction Boxes.

REV	DESCRIPTION	DATE	INITIALS
A	ADDED PART MAT'L INFO TO BOM.	5/23/14	DK

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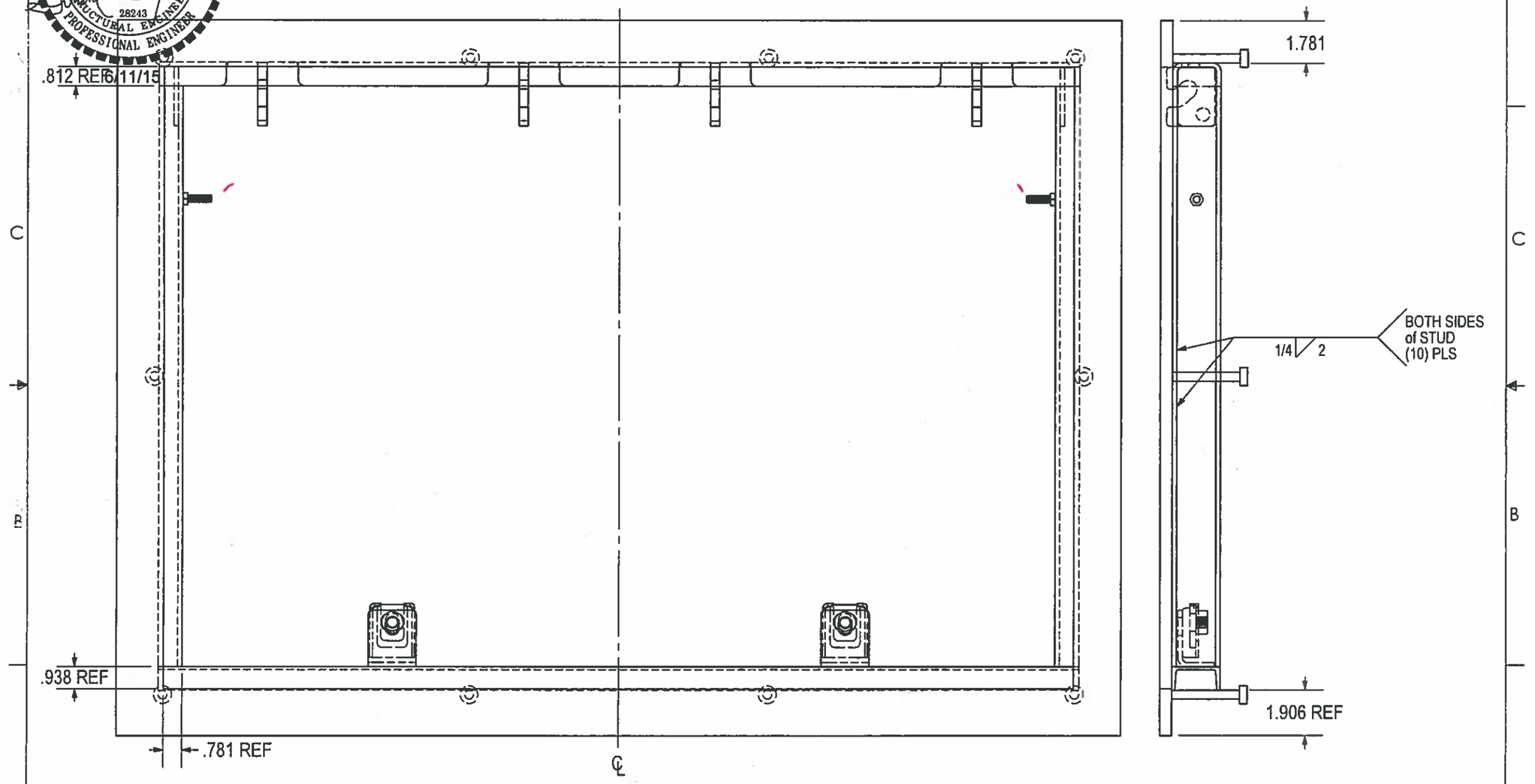
STATE OF WASHINGTON
28243
STRUCTURAL ENGINEER
PROFESSIONAL ENGINEER



APPROVED
Washington State
Department of Transportation
HQ Traffic Operations Office
DATE June 17, 2018 TAT

TYPE 8 - FRAME POSITION

UNIVERSAL DWG:
716-00006 T8 JBOX (DP)
716-00014 T8 JBOX (SN)

Prepared for H³ PRECAST INC.

TYPE 8 JUNCTION BOX

THIS DRAWING CREATED FOR MANUFACTURING REFERENCE ONLY AND IS NOT INTENDED TO SUPERCEDE H³ PRECAST INC. DRAWINGS OR SPECIFICATIONS OF THE REFERENCED PART.

HOLES ± 0.030
X.XXX ± 0.060
ANGLES ± 1.0°

SIZE A | DRAWN BY: DREW KEIM | PROGRAM NUMBER: | DATE CREATED: 7/26/12 | REV. A
SCALE :NONE | CAD FILE: TYPE 8 J BOX (A) | SHEET 2 of 2

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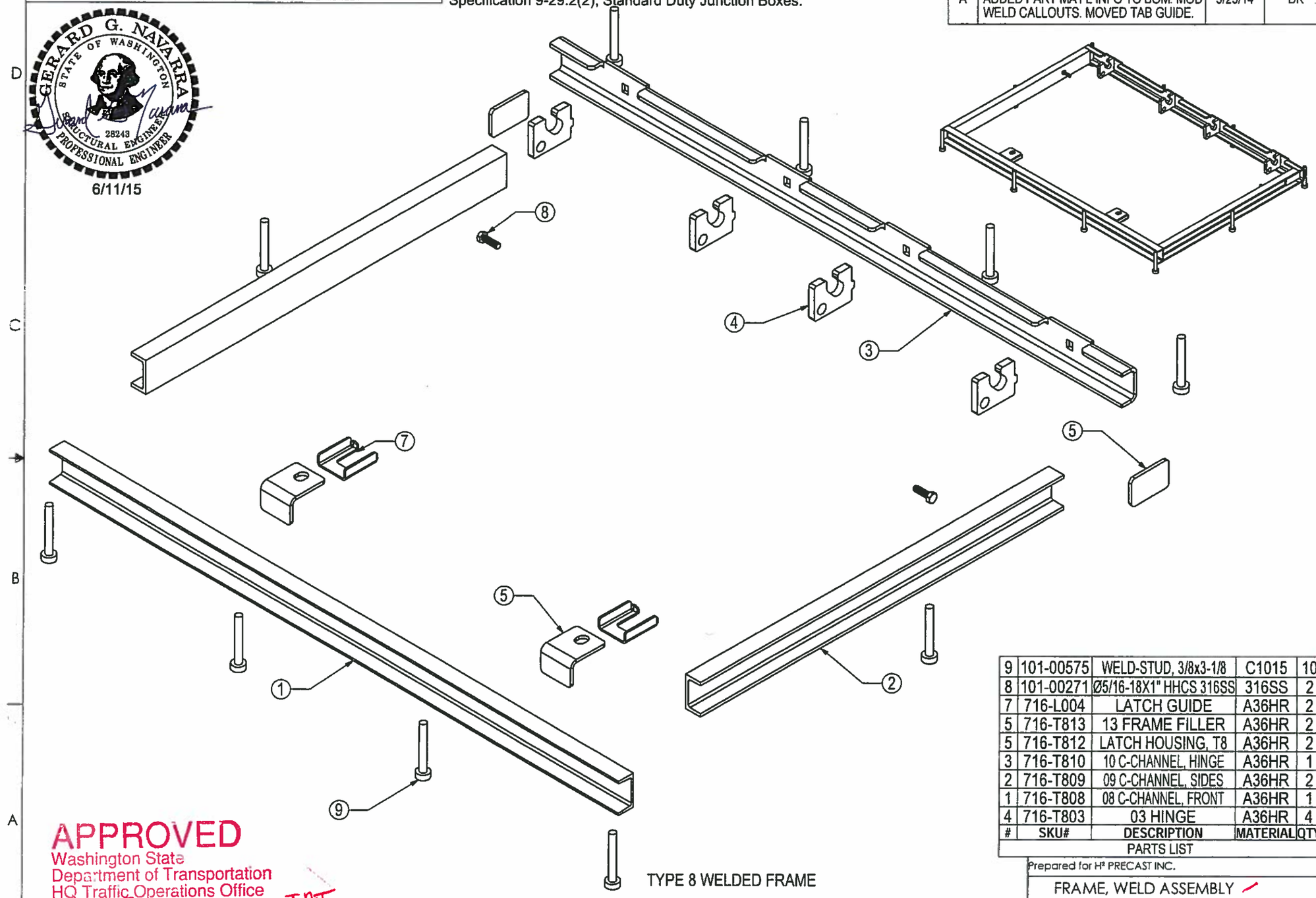
REV	DESCRIPTION	DATE	INITIALS
A	ADDED PART MAT'L INFO TO BOM. MOD WELD CALLOUTS. MOVED TAB GUIDE.	5/23/14	DK

GERARD G. NAVARRA
STATE OF WASHINGTON
28243
STRUCTURAL ENGINEER
PROFESSIONAL ENGINEER
6/11/15



#	SKU#	DESCRIPTION	MATERIAL	QTY
9	101-00575	WELD-STUD, 3/8x3-1/8	C1015	10
8	101-00271	Ø5/16-18X1" HHCS 316SS	316SS	2
7	716-L004	LATCH GUIDE	A36HR	2
5	716-T813	13 FRAME FILLER	A36HR	2
5	716-T812	LATCH HOUSING, T8	A36HR	2
3	716-T810	10 C-CHANNEL, HINGE	A36HR	1
2	716-T809	09 C-CHANNEL, SIDES	A36HR	2
1	716-T808	08 C-CHANNEL, FRONT	A36HR	1
4	716-T803	03 HINGE	A36HR	4

PARTS LIST

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Department of Transportation
HQ Traffic Operations Office
DATE June 17, 2015 TAT

TYPE 8 WELDED FRAME

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Prepared for H² PRECAST INC.

FRAME, WELD ASSEMBLY

SIZE	DRAWN BY:	PROGRAM NUMBER:	REV.
A	DREW KEIM	DATE CREATED: 8/27/12	A
SCALE :NONE	CAD FILE: WELDED FRAME (A)	SHEET 1 of 3	

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REV	DESCRIPTION	DATE	INITIALS
A	ADDED PART MAT'L INFO TO BOM. MOD WELD CALLOUTS. MOVED TAB GUIDE.	5/23/14	DK

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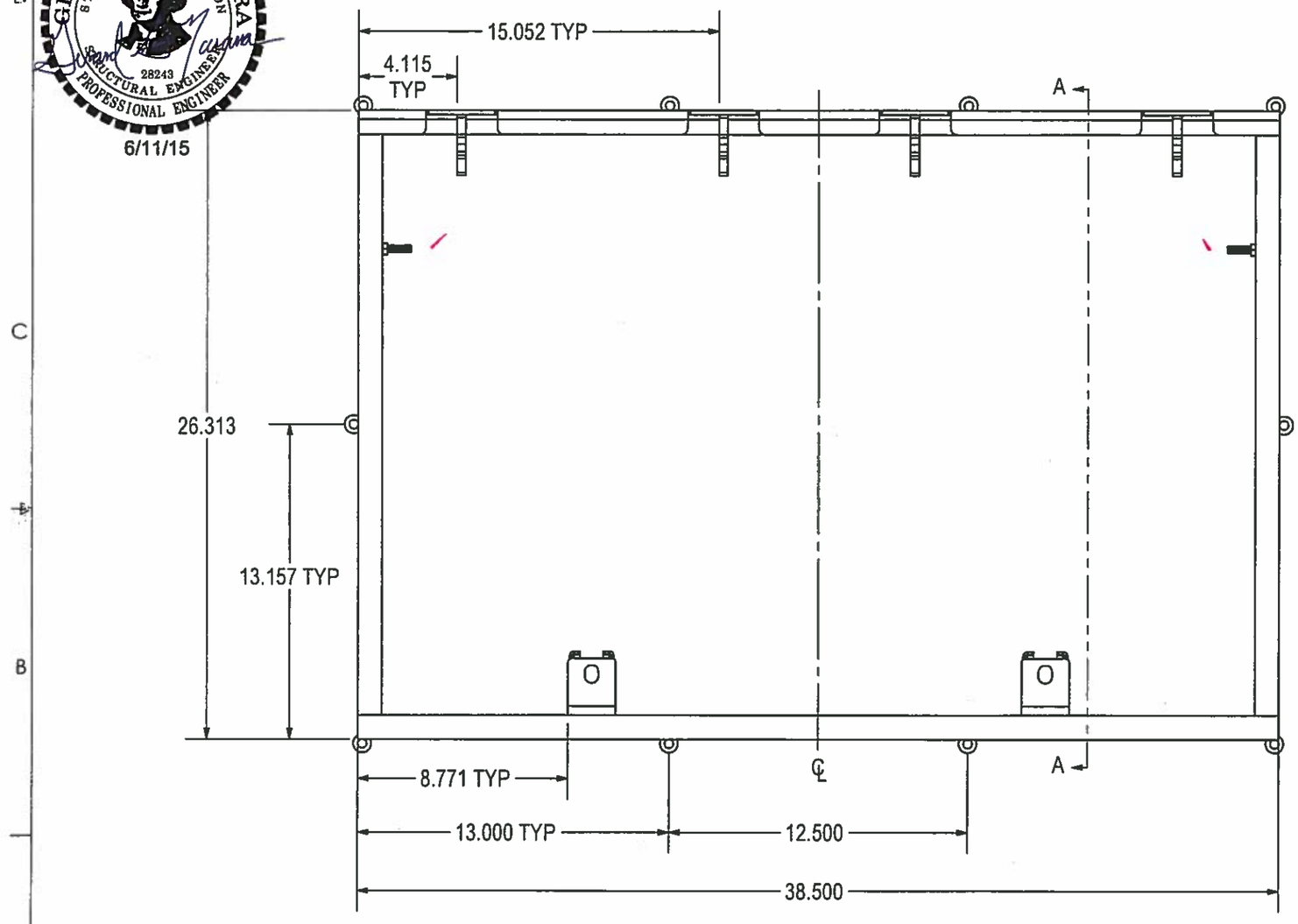
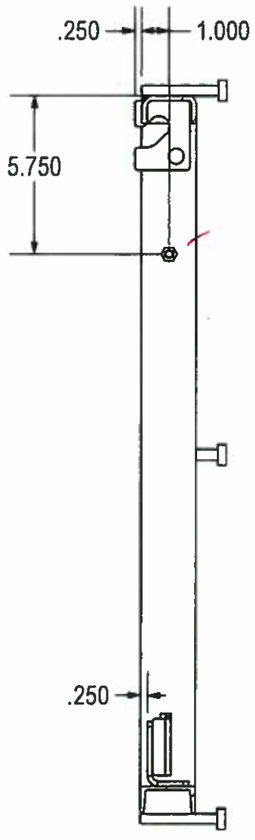
STATE OF WASHINGTON
28243
STRUCTURAL ENGINEER
PROFESSIONAL ENGINEER
6/11/15





SECTION A-A

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DATE June 17, 2015 TAT

TYPE 8 WELDED FRAME

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Prepared for H² PRECAST INC.

FRAME, WELD ASSEMBLY

SIZE	DRAWN BY:	PROGRAM NUMBER:	REV.
A	DREW KEIM	DATE CREATED: 8/27/12	A
SCALE :NONE	CAD FILE: WELDED FRAME (A)	SHEET 2 of 3	

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A	ADDED PART MAT'L INFO TO BOM. MOD WELD CALLOUTS. MOVED TAB GUIDE.	5/23/14	DK

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STATE OF WASHINGTON
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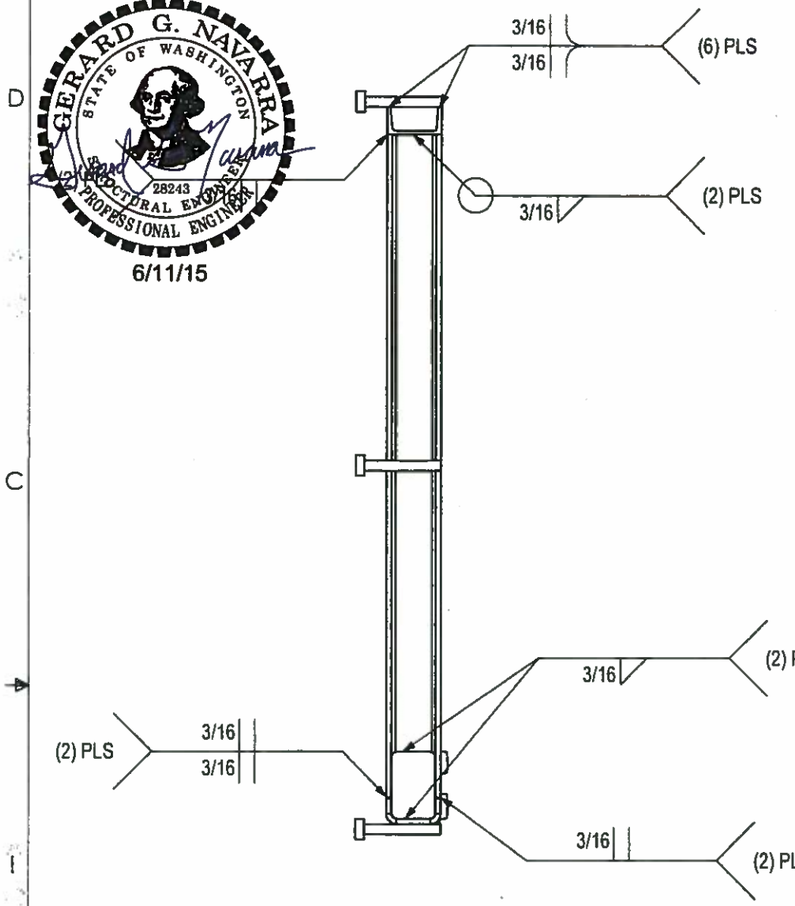
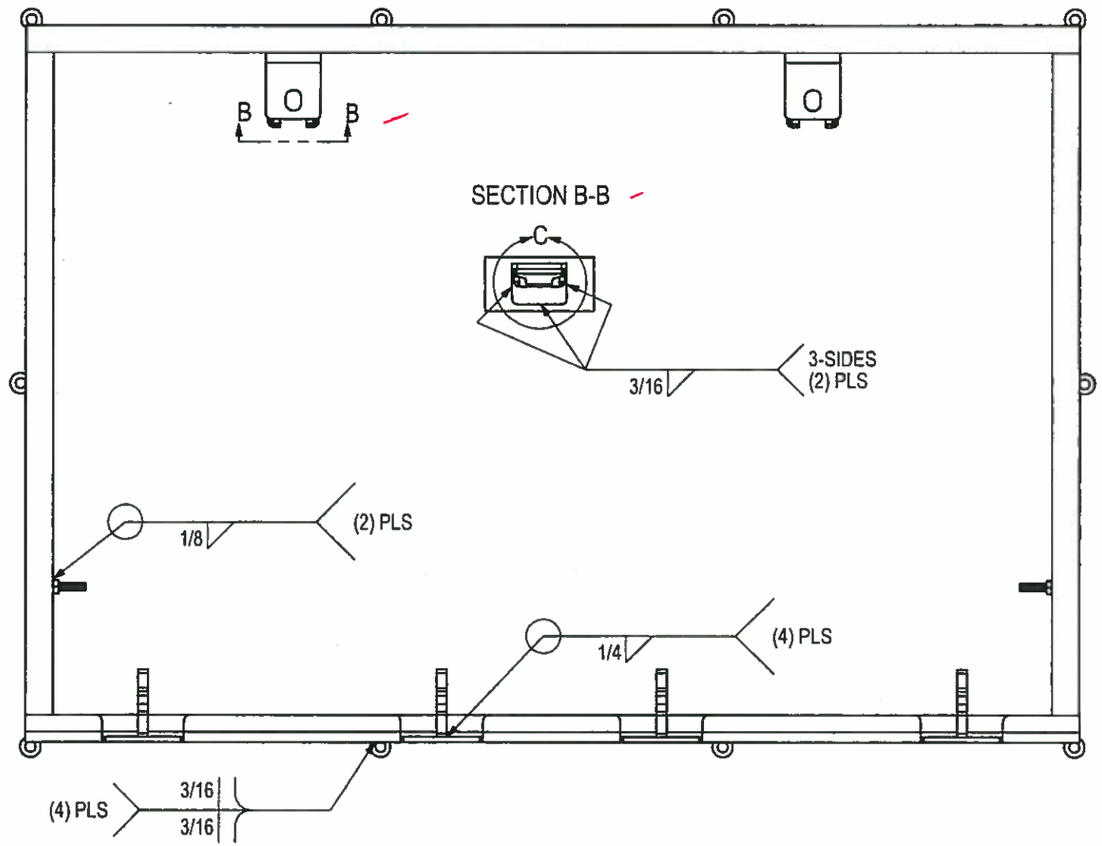
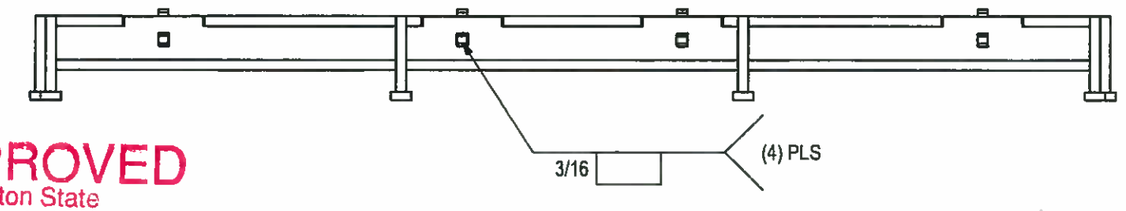
STRUCTURAL ENGINEER
PROFESSIONAL ENGINEER
6/11/15

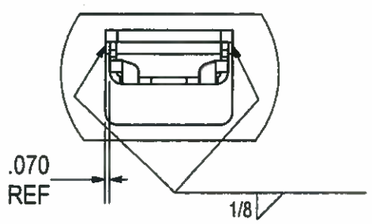


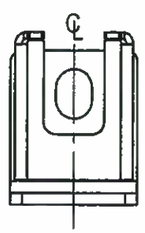


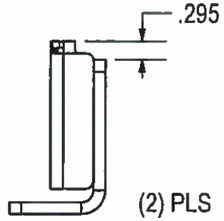
SECTION B-B



DETAIL C







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DATE June 17, 2015 TAT

TYPE 8 WELDED FRAME - WELD LOCATIONS

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Prepared for H³ PRECAST INC.

FRAME, WELD ASSEMBLY

SIZE	DRAWN BY:	PROGRAM NUMBER:	REV.
A	DREW KEIM	DATE CREATED: 8/27/12	A
SCALE :NONE	CAD FILE: WELDED FRAME (A)	SHEET	3 of 3

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REV	DESCRIPTION	DATE	INITIALS
A	ADDED PART MAT'L INFO TO BOM. MOD WELD CALLOUTS.	5/23/14	DK

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STATE OF WASHINGTON
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PROFESSIONAL ENGINEER
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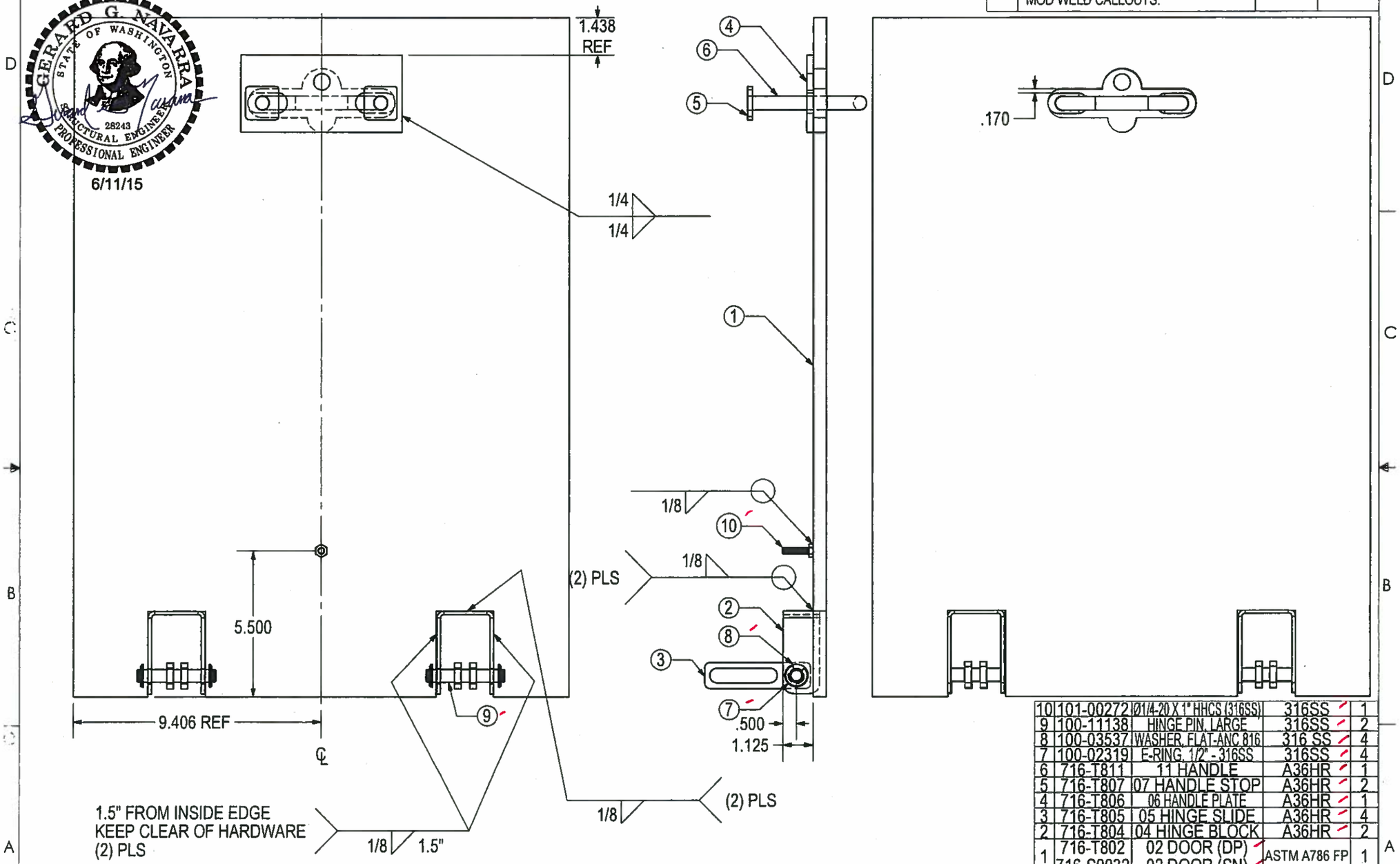

#	SKU#	DESCRIPTION	MATERIAL	QTY
		PARTS LIST		
10	101-00272	Ø1/4-20 X 1" HHCS (316SS)	316SS	1
9	100-11138	HINGE PIN, LARGE	316SS	2
8	100-03537	WASHER, FLAT-ANC 816	316 SS	4
7	100-02319	E-RING, 1/2" - 316SS	316SS	4
6	716-T811	11 HANDLE	A36HR	1
5	716-T807	07 HANDLE STOP	A36HR	2
4	716-T806	06 HANDLE PLATE	A36HR	1
3	716-T805	05 HINGE SLIDE	A36HR	4
2	716-T804	04 HINGE BLOCK	A36HR	2
1	716-T802 716-S0032	02 DOOR (DP) 02 DOOR (SN)	ASTM A786 FP	1

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TYPE 8 DOOR WELD ASSY
(2) REQ'D

UNIVERSAL DWG:
700-00018 DP DOOR
700-00036 SN DOOR

Prepared for H² PRECAST INC.

DOOR, TYPE 8

SIZE	DRAWN BY:	PROGRAM NUMBER:	REV.
A	DREW KEIM	DATE CREATED: 8/29/12	A
SCALE :NONE	CAD FILE: TYPE 8 DOOR (A)	SHEET	1 of 3

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REV	DESCRIPTION	DATE	INITIALS
A	ADDED PART MAT'L INFO TO BOM. MOD WELD CALLOUTS.	5/23/14	DK

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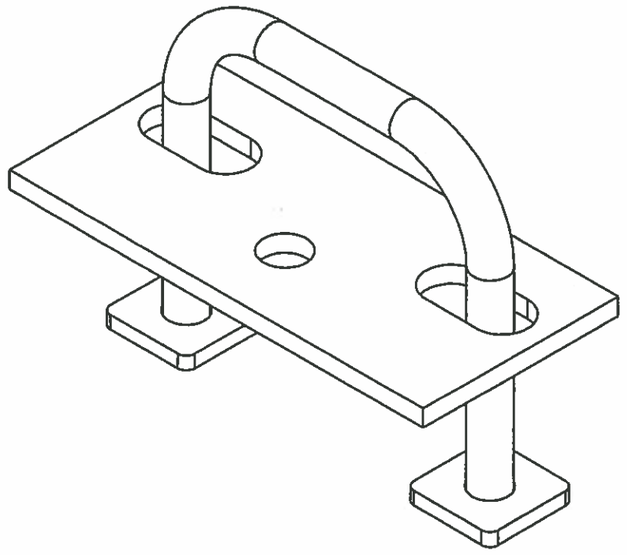

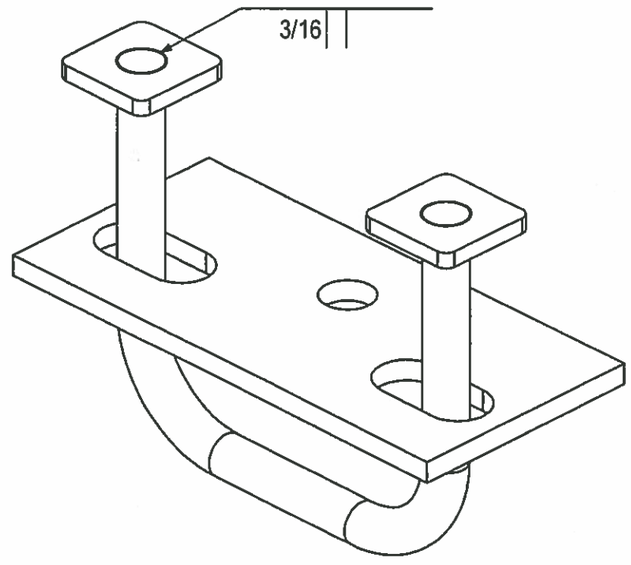

TYPE 8 HANDLE WELD ASSY
(2) REQ'D

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HQ Traffic Operations Office
DATE June 17, 2015 TAT

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Prepared for H² PRECAST INC.

DOOR, TYPE 8

SIZE	DRAWN BY:	PROGRAM NUMBER:	REV.
A	DREW KEIM	DATE CREATED: 8/29/12	A
SCALE :NONE	CAD FILE: TYPE 8 DOOR (A)		SHEET 2 of 3

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REV	DESCRIPTION	DATE	INITIALS
A	ADDED PART MAT'L INFO TO BOM. MOD WELD CALLOUTS.	5/23/14	DK

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STATE OF WASHINGTON
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PROFESSIONAL ENGINEER

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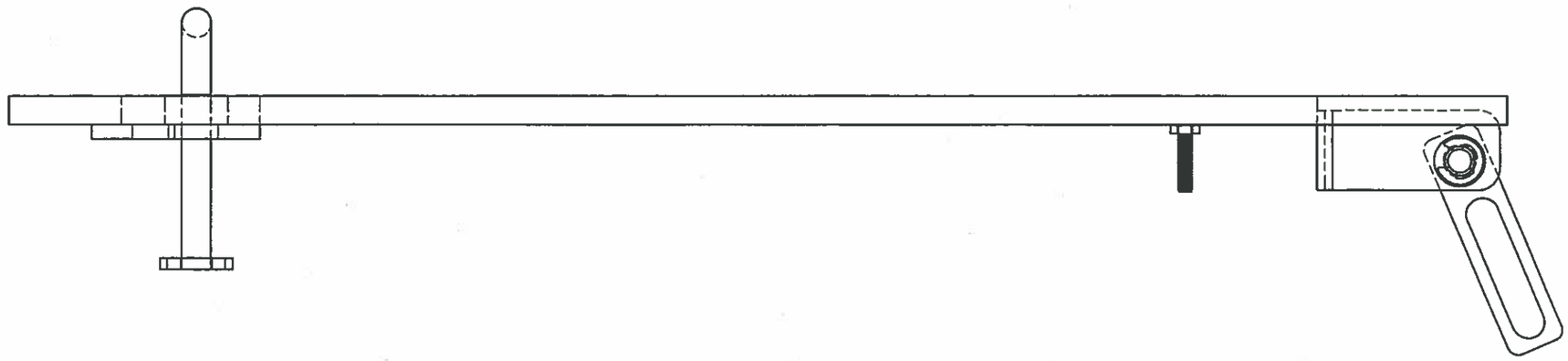

TYPE 8 DOOR ASS'Y - HINGE SLIDE ORIENTATION

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DATE June 17, 2015 TAT

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Prepared for H² PRECAST INC.

DOOR, TYPE 8

SIZE	DRAWN BY:	PROGRAM NUMBER:	REV.
A	DREW KEIM	DATE CREATED: 8/29/12	A
SCALE :NONE	CAD FILE: TYPE 8 DOOR (A)	SHEET 3 of 3	

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REV	DESCRIPTION	DATE	INITIALS
A	MODIFEID WELD NOTE. ADDED NOTE.	5/17/14	DK

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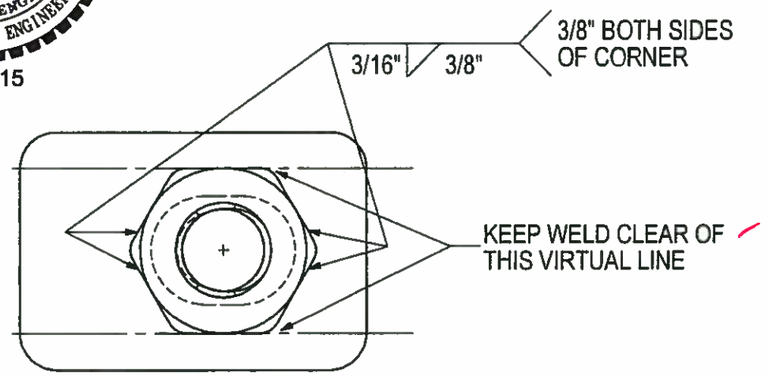

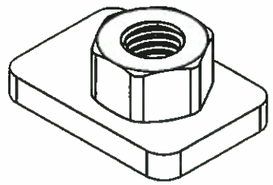

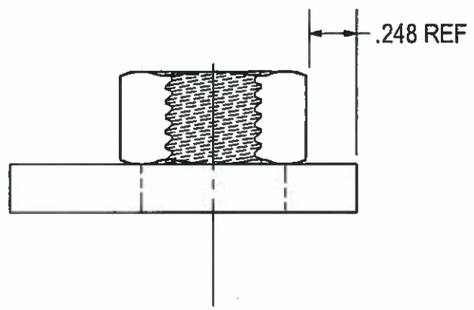

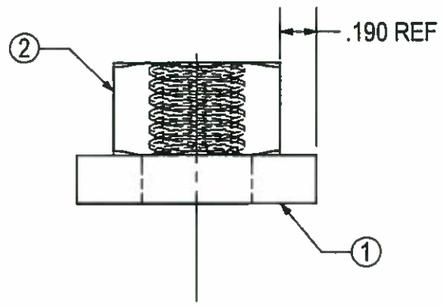

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DATE June 17, 2015 TAT

#	SKU#	DESCRIPTION	MATERIAL	QTY.
2	101-00047	NUT, HEX(HEAVY) 1/2-13	316SS	1
1	716-L002	LOCK LATCH	A36HR	1

PARTS LIST

Prepared for H² PRECAST INC.

LOCK TAB WELD ASSY

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HOLES ± 0.030
X.XXX ± 0.060
ANGLES ± 1.0°

SIZE A | DRAWN BY: DREW KEIM | PROGRAM NUMBER: 700-00005 | DATE CREATED: 4/28/14 | REV. A

SCALE :NONE | CAD FILE: 700-00005A | SHEET 1 of 1

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STATE OF WASHINGTON
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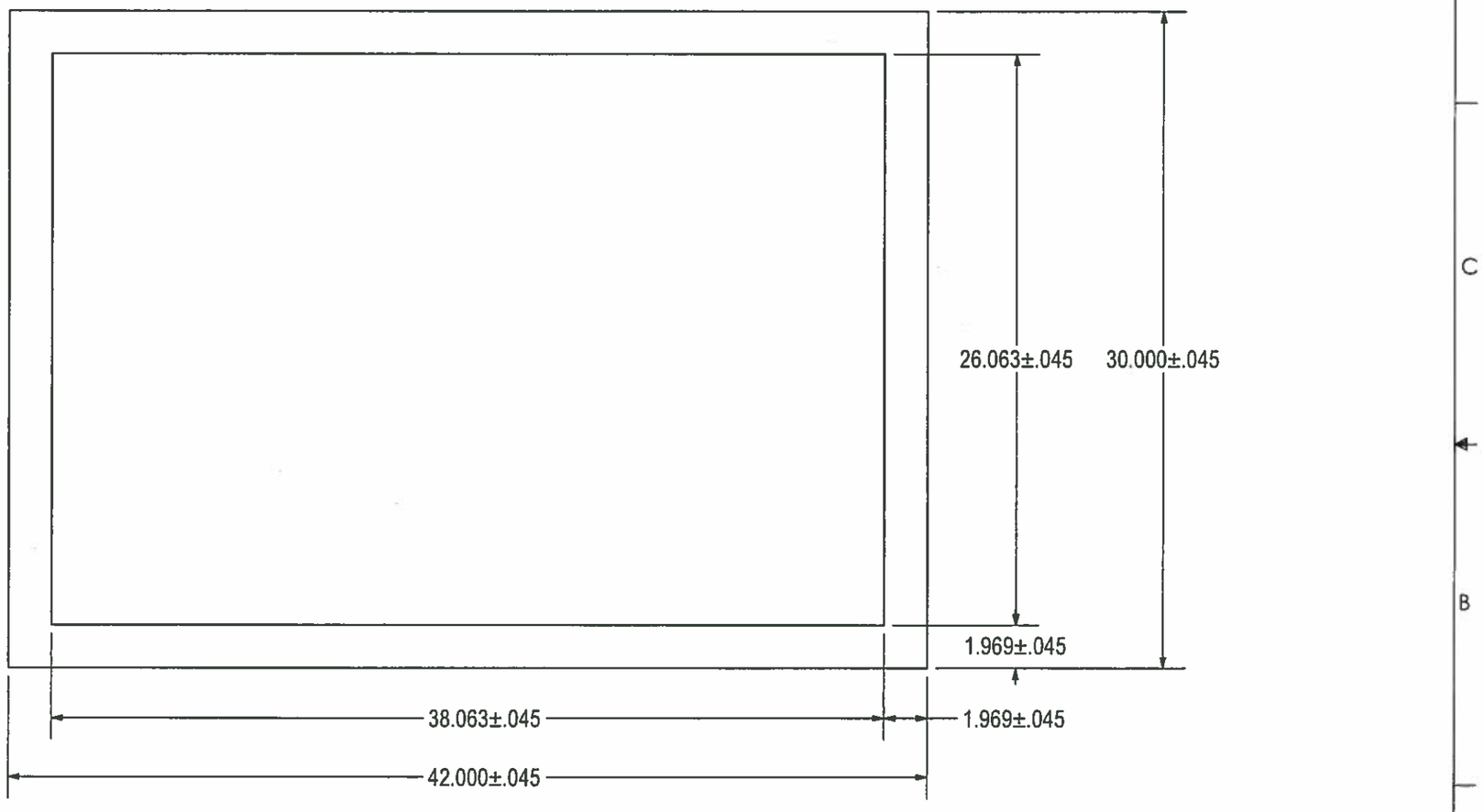
6/11/15



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Department of Transportation
HQ Traffic Operations Office
DATE June 17, 2015 TAT

UNIVERSAL DWG:
716-T801 (DIAMOND PLATE)
716-S0031 (SLIPNOT PLATE)

1/2 DIAMOND PLATE / SLIPNOT- 42.000 X 30.000

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Prepared for H² PRECAST INC.

FRAME; TYPE 8 J BOX

SIZE	DRAWN BY:	PROGRAM NUMBER:	REV.
A	DREW KEIM	DATE CREATED: 7/20/12	
SCALE :NONE	CAD FILE: 716-S0031	SHEET 1 of 2	

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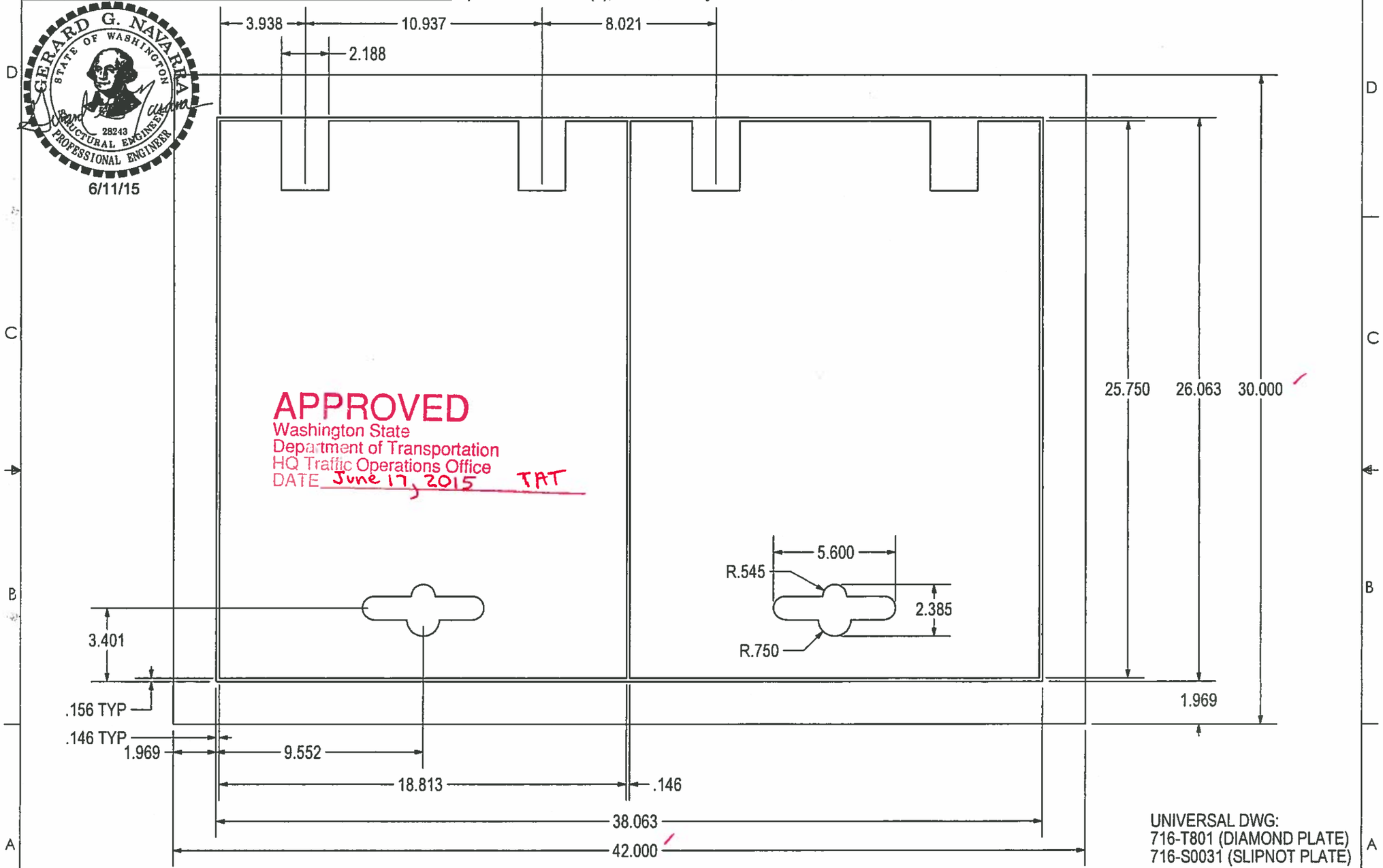
DATE June 17, 2015 TAT



UNIVERSAL DWG:
716-T801 (DIAMOND PLATE)
716-S0031 (SLIPNOT PLATE)

TYPE 8 J BOX - FRAME & DOORS, AS CUT

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Prepared for H³ PRECAST INC.

FRAME; TYPE 8 J BOX

SIZE	DRAWN BY:	PROGRAM NUMBER:	REV.
A	DREW KEIM	DATE CREATED: 7/20/12	
SCALE :NONE	CAD FILE: 716-S0031	SHEET 2 of 2	

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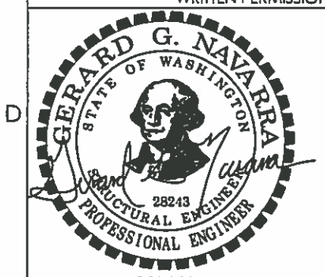
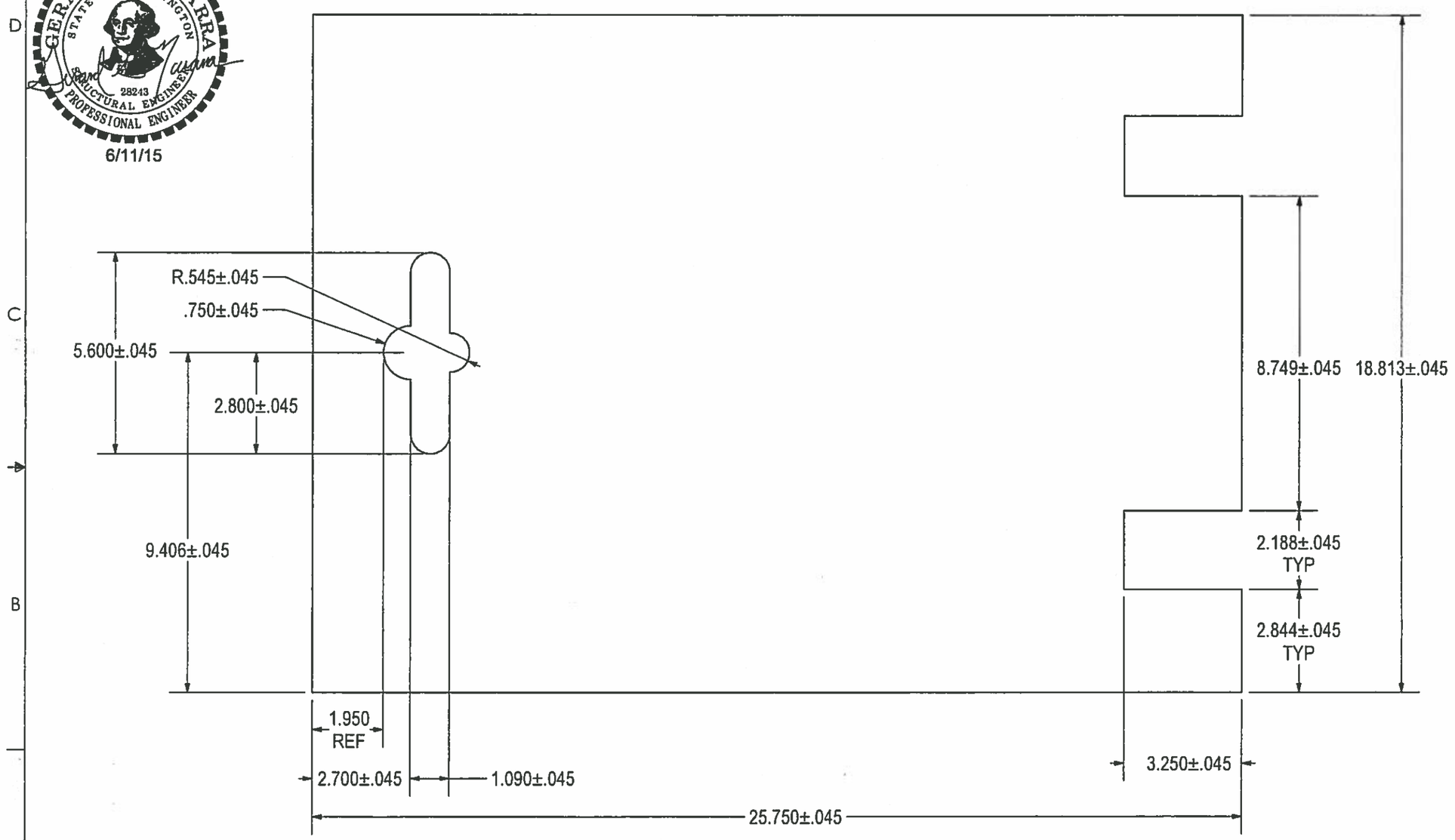


6/11/15



UNIVERSAL DWG:
716-T802 (DIAMOND PLATE)
716-S0032 (SLIPNOT PLATE)

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Department of Transportation
HQ Traffic Operations Office
DATE June 17, 2015 TAT

1/2 DIAMOND PLATE / SLIPNOT- 25.750 X 18.813
(2) PLS

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DOOR; TYPE 8 J BOX

SIZE	DRAWN BY:	PROGRAM NUMBER:	REV.
A	DREW KEIM	DATE CREATED: 7/20/12	
SCALE :NONE	CAD FILE: 716-S0032	SHEET 1 of 1	

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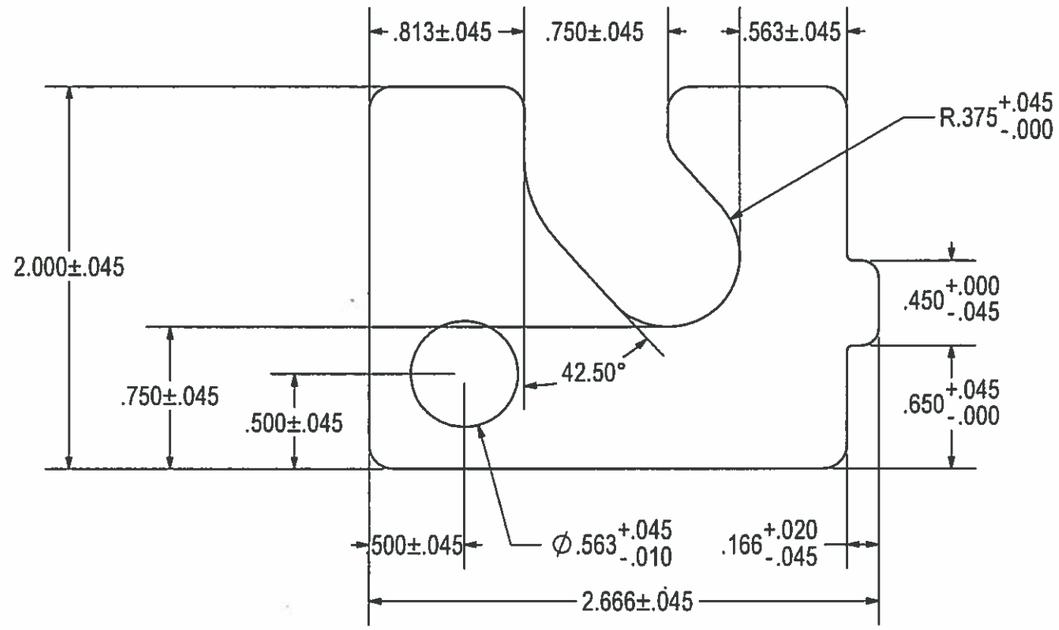
PROFESSIONAL ENGINEER

6/11/15



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Department of Transportation
HQ Traffic Operations Office
DATE June 17, 2015 TAT

3/8 HR - 2.666 X 2.000
(4) REQ'D

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Prepared for H³ PRECAST INC.

HINGE; TYPE 8 J BOX

SIZE	DRAWN BY:	PROGRAM NUMBER:	REV.
A	DREW KEIM	716-T803	
		DATE CREATED: 7/20/12	
SCALE :NONE	CAD FILE: 03 HINGE	SHEET 1 of 1	

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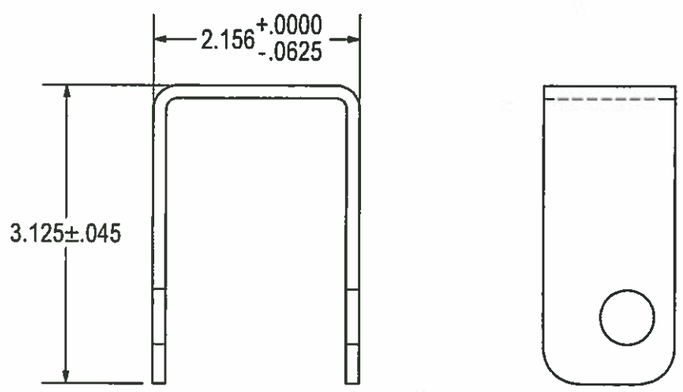
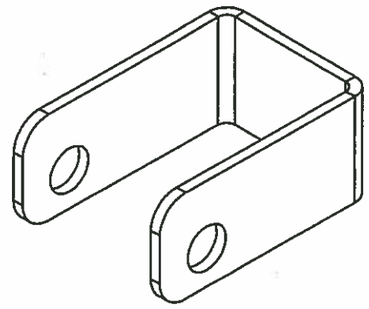
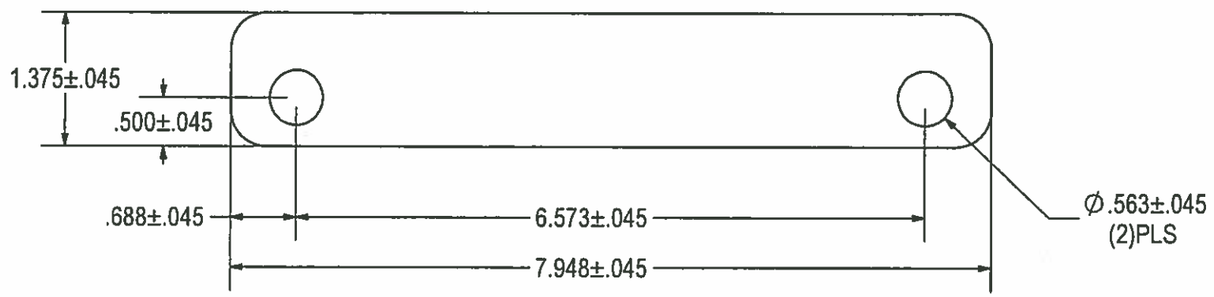
This assembly is constructed and tested to conform with WSDOT Standard Specification 9-29.2(2), Standard Duty Junction Boxes.

GERARD G. NAVARRA
STATE OF WASHINGTON
28243
STRUCTURAL ENGINEER
PROFESSIONAL ENGINEER
6/11/15





FORMED DETAILS



FLAT PATTERN

APPROVED
Washington State
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HQ Traffic Operations Office
DATE June 17, 2015 TAT

10 GA HR - 7.948 X 1.375
(4) REQ'D
X = .216 @ 90° .125 R

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Prepared for H² PRECAST INC.

HINGE BLOCK; TYPE 8 J BOX

SIZE	DRAWN BY:	PROGRAM NUMBER:	REV.
A	DREW KEIM	716-T804	
		DATE CREATED: 7/20/12	
SCALE :NONE	CAD FILE: 04 HINGE BLOCK	SHEET 1 of 1	

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This assembly is constructed and tested to conform with WSDOT Standard Specification 9-29.2(2), Standard Duty Junction Boxes.

GERARD G. NAVARRA
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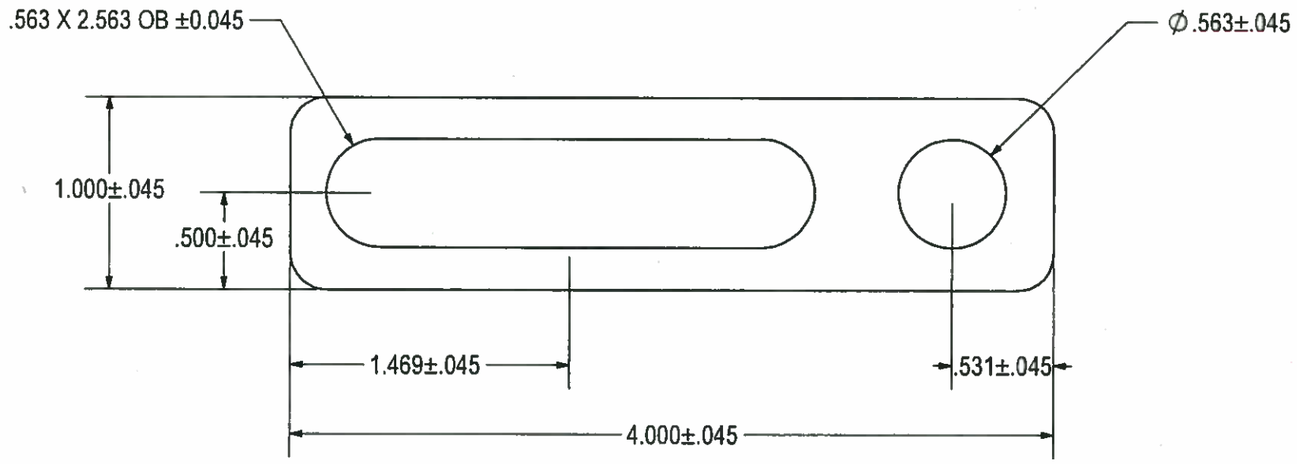
6/11/15



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DATE June 17, 2015

1/4 HR - 4.000 X 1.000
(8) REQ'D

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Prepared for H² PRECAST INC.

HINGE SLIDE; TYPE 8 J BOX

SIZE	DRAWN BY:	PROGRAM NUMBER:	REV.
A	DREW KEIM	716-T805	
		DATE CREATED: 7/20/12	
SCALE :NONE	CAD FILE: 05 HINGE SLIDE	SHEET 1 of 1	

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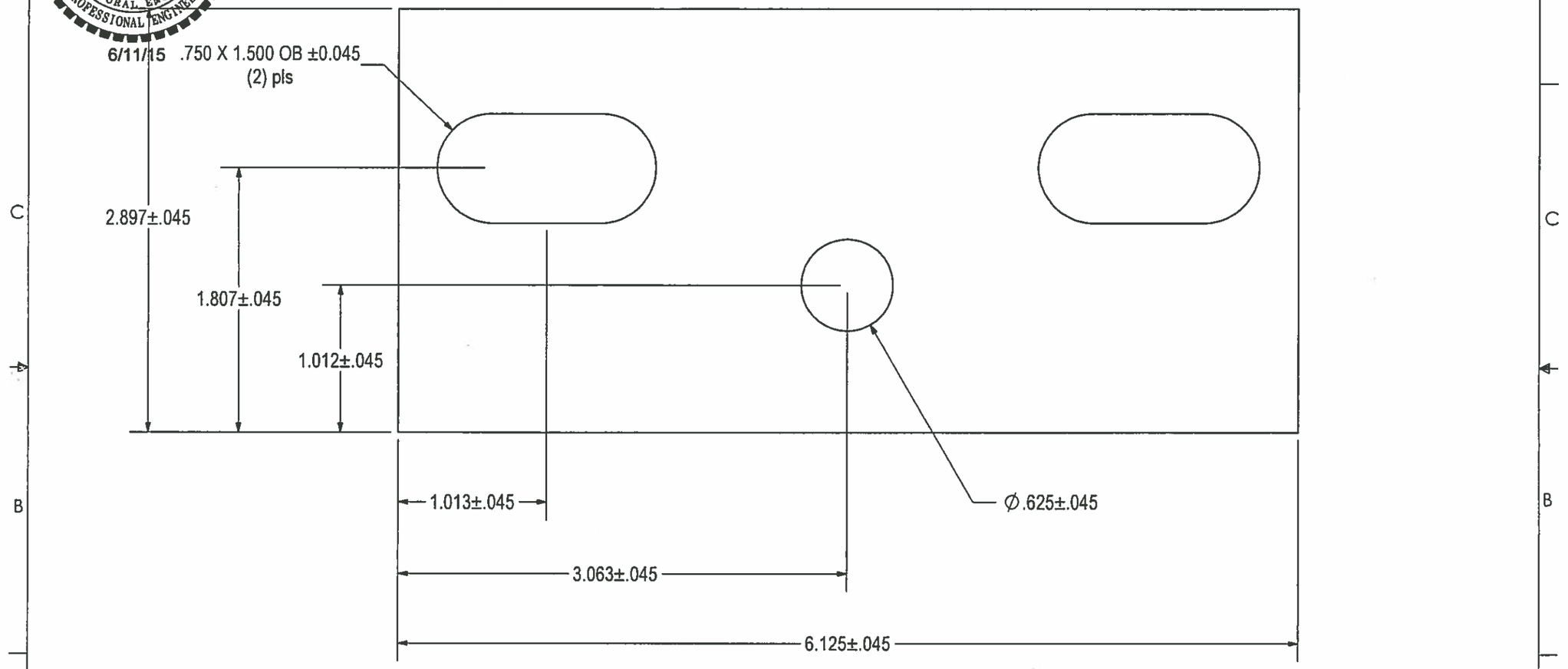
GERARD G. NAVARRA
STATE OF WASHINGTON
28243
STRUCTURAL ENGINEER
PROFESSIONAL ENGINEER

6/11/15



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HQ Traffic Operations Office
DATE June 17, 2015 TAT

1/4 HR - 6.125 X 3.073
(2) REQ'D

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Prepared for H² PRECAST INC.

HANDLE PLATE; TYPE 8 J BOX

SIZE	DRAWN BY:	PROGRAM NUMBER:	REV.
A	DREW KEIM	716-T806	
		DATE CREATED: 7/20/12	
SCALE: NONE	CAD FILE: 06 HANDLE PLATE	SHEET 1 of 1	

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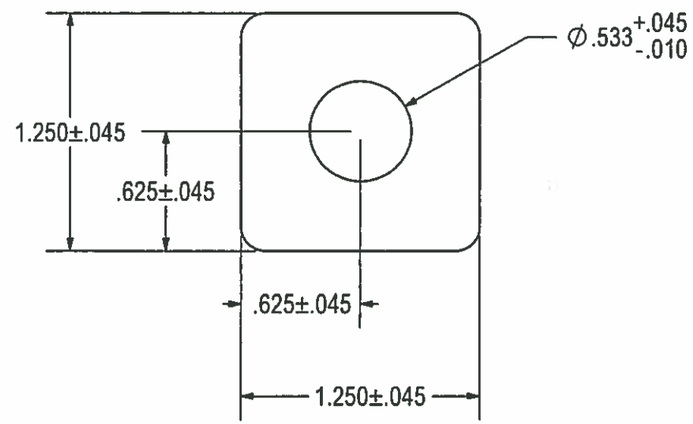
PROFESSIONAL ENGINEER

6/11/15



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DATE June 17, 2015 TAT

3/16 HR - 1.250 X 1.250
(4) PLS

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Prepared for H³ PRECAST INC.

HANDLE STOP, TYPE 8 J BOX

SIZE	DRAWN BY:	PROGRAM NUMBER:	REV.
A	DREW KEIM	DATE CREATED: 7/20/12	
SCALE :NONE	CAD FILE: 07 HANDLE STOP	SHEET 1 of 1	

716-T807

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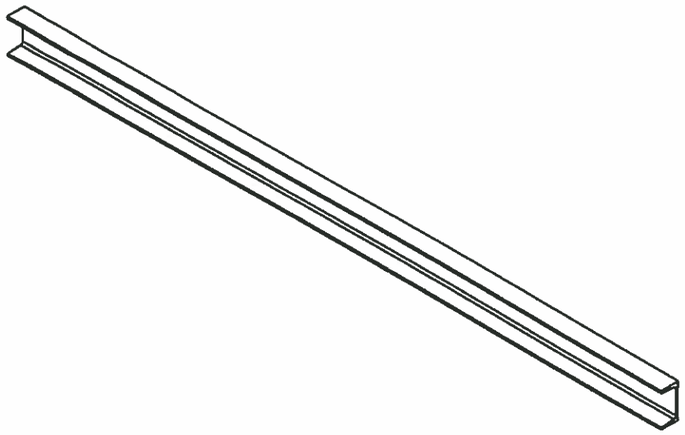
This assembly is constructed and tested to conform with WSDOT Standard Specification 9-29.2(2), Standard Duty Junction Boxes.



GERARD G. NAVARRA
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STRUCTURAL ENGINEER
PROFESSIONAL ENGINEER

6/11/15

APPROVED
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Department of Transportation
HQ Traffic Operations Office
DATE June 17, 2015 TAT

CHANNEL, C - 2 x 1 x 3/16 x 38.500 LONG

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Prepared for H² PRECAST INC.

C-CHANNEL FRONT; TYPE 8 J BOX

SIZE	DRAWN BY:	PROGRAM NUMBER:	REV.
A	DREW KEIM	716-T808	
		DATE CREATED: 7/20/12	
SCALE :NONE	CAD FILE: 08 C-CHANNEL FRONT	SHEET 1 of 1	

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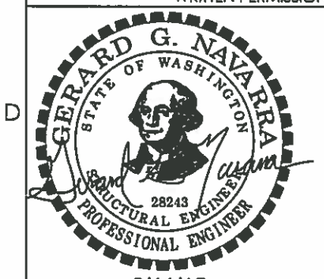
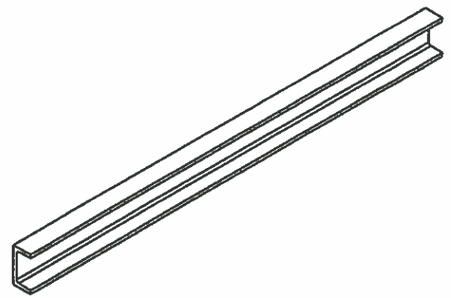
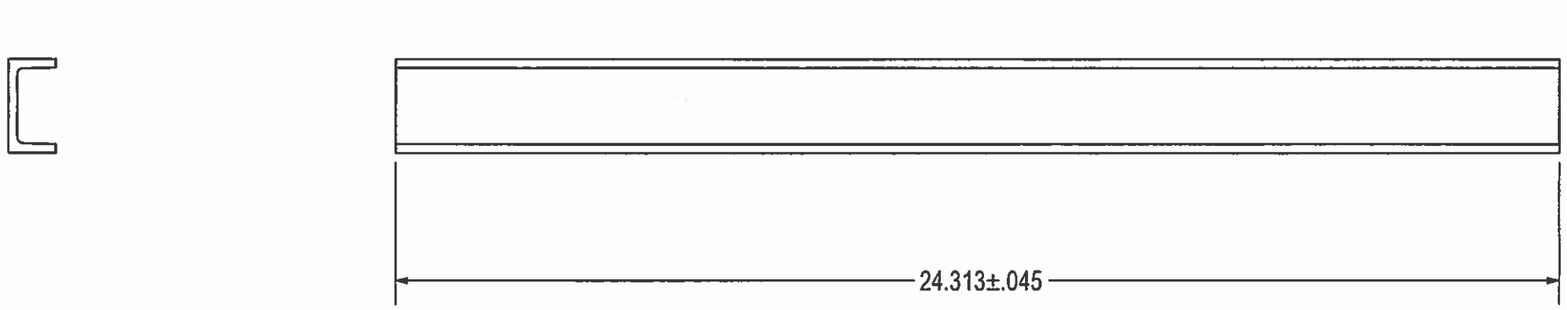
This assembly is constructed and tested to conform with WSDOT Standard Specification 9-29.2(2), Standard Duty Junction Boxes.



6/11/15





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Department of Transportation
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DATE June 17, 2015 TAT

CHANNEL, C - 2 x 1 x 3/16 x 24.313 LONG
(2) REQ'D

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Prepared for H² PRECAST INC.

C-CHANNEL SIDES; TYPE 8 J BOX

SIZE	DRAWN BY:	PROGRAM NUMBER:	REV.
A	DREW KEIM	716-T809	
		DATE CREATED: 7/20/12	
SCALE :NONE	CAD FILE: 09 C-CHANNEL SIDES	SHEET 1 of 1	

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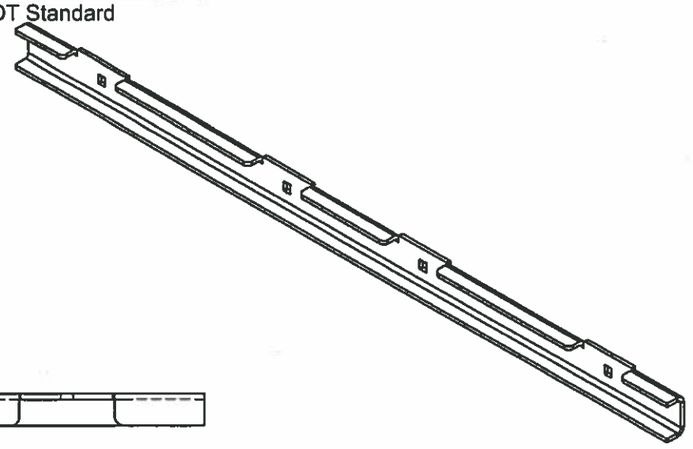
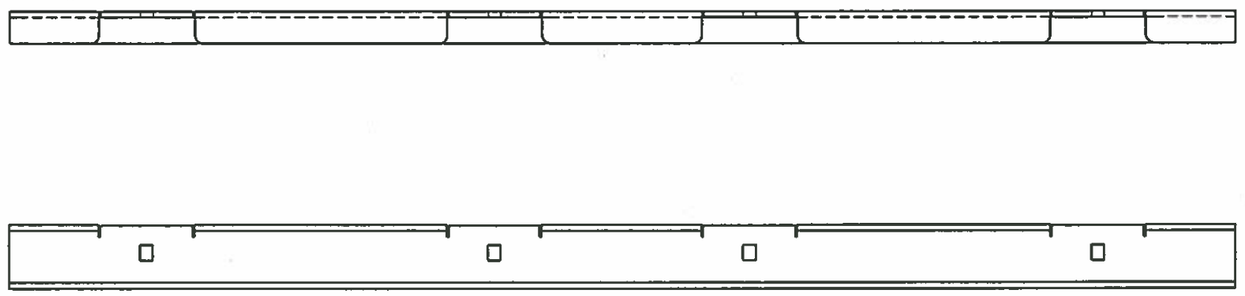
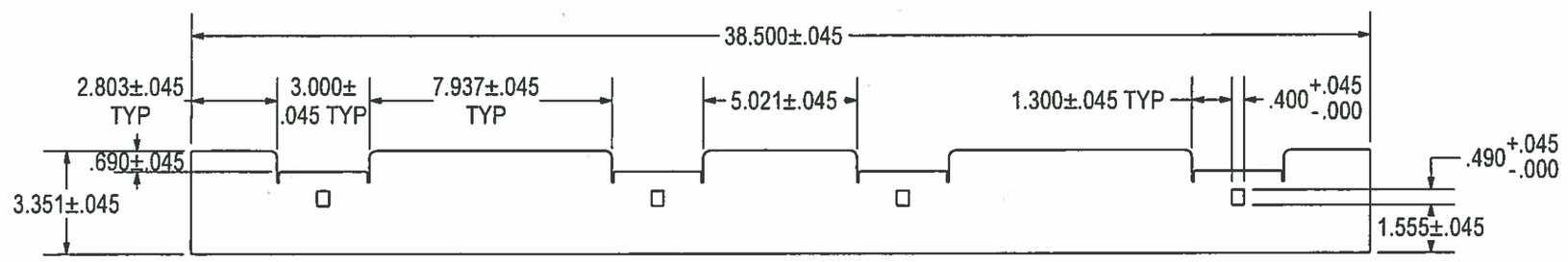
This assembly is constructed and tested to conform with WSDOT Standard Specification 9-29.2(2), Standard Duty Junction Boxes.







GERARD G. NAVARRA
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28243
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PROFESSIONAL ENGINEER
6/11/15

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Department of Transportation
HQ Traffic Operations Office
DATE June 17, 2015 TAT

3/16 HR - 38.500 X 3.351
x = .325 @ 90° .188 R

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Prepared for H² PRECAST INC.

C-CHANNEL HINGE; TYPE 8 J BOX

SIZE	DRAWN BY:	PROGRAM NUMBER:	REV.
A	DREW KEIM	716-T810	
		DATE CREATED: 7/20/12	
SCALE :NONE	CAD FILE: 10 C-CHANNEL HINGE	SHEET 1 of 1	

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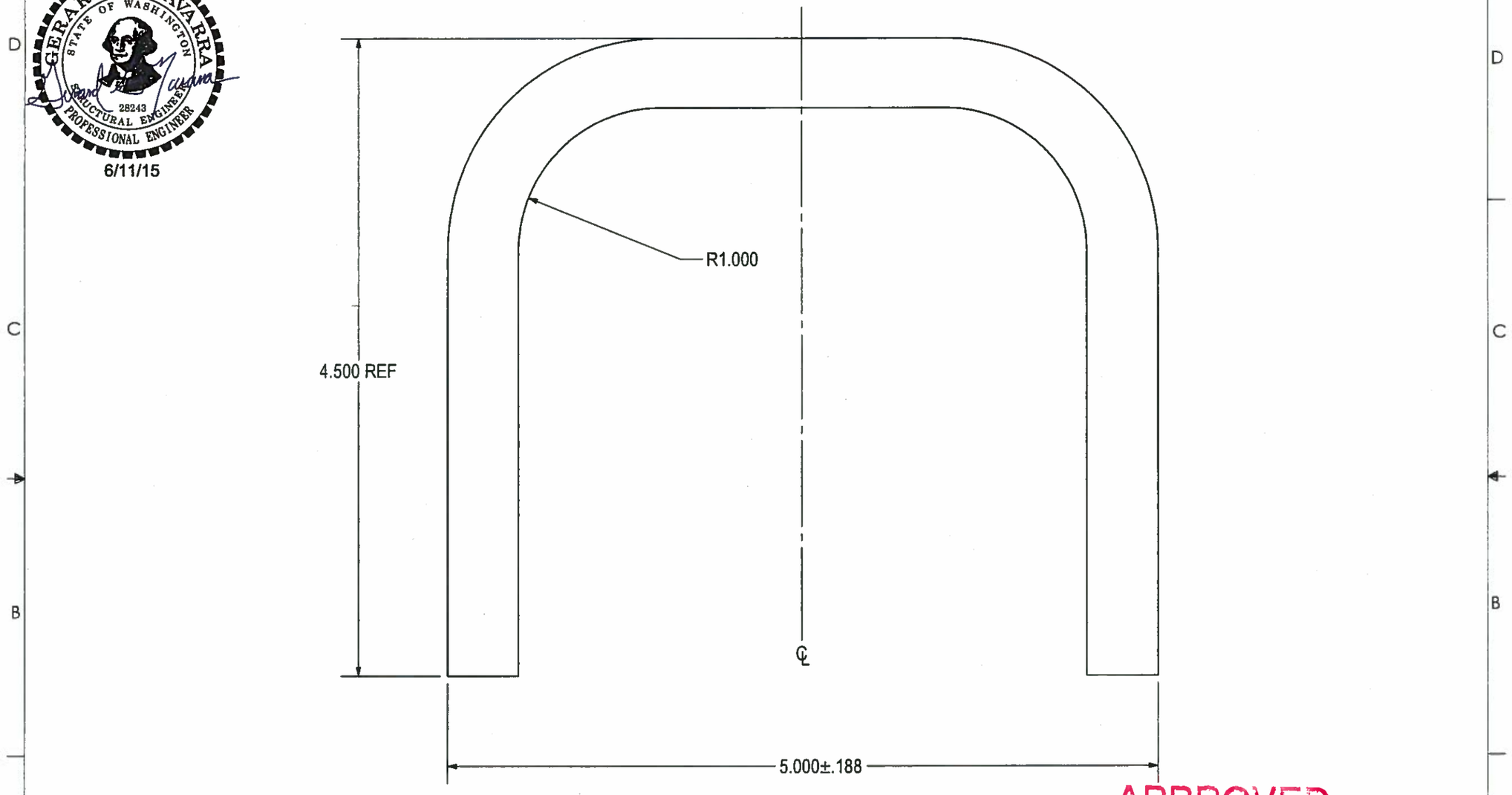
GERARD G. NAVARRA
STATE OF WASHINGTON
28243
STRUCTURAL ENGINEER
PROFESSIONAL ENGINEER

6/11/15



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DATE June 17, 2015 TAT

1/2 ROUND ROD - 12.000" LONG
(2) PLS

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Prepared for H² PRECAST INC.

HANDLE; TYPE 8 J BOX

SIZE	DRAWN BY:	PROGRAM NUMBER:	REV.
A	DREW KEIM	716-T811	
		DATE CREATED: 7/23/12	
SCALE :NONE	CAD FILE: 11 HANDLE	SHEET 1 of 1	

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REV	DESCRIPTION	DATE	INITIALS
A	ADDED CHAMFER NOTE	6/10/14	DK

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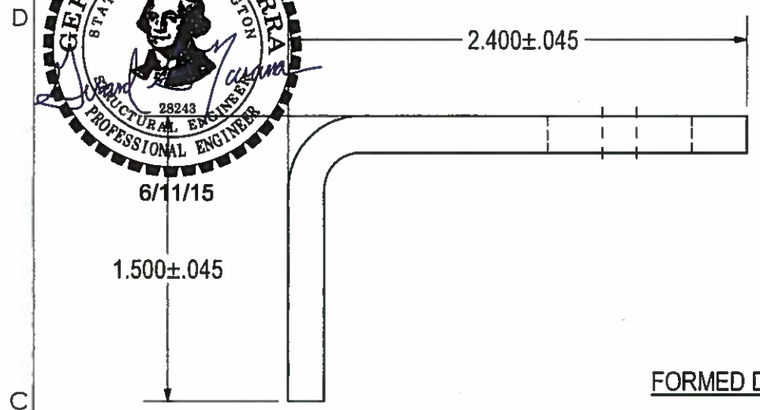
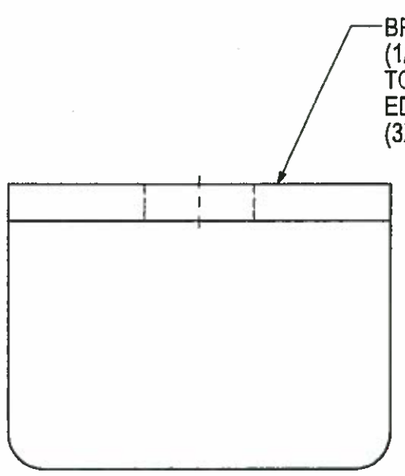
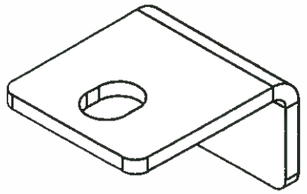
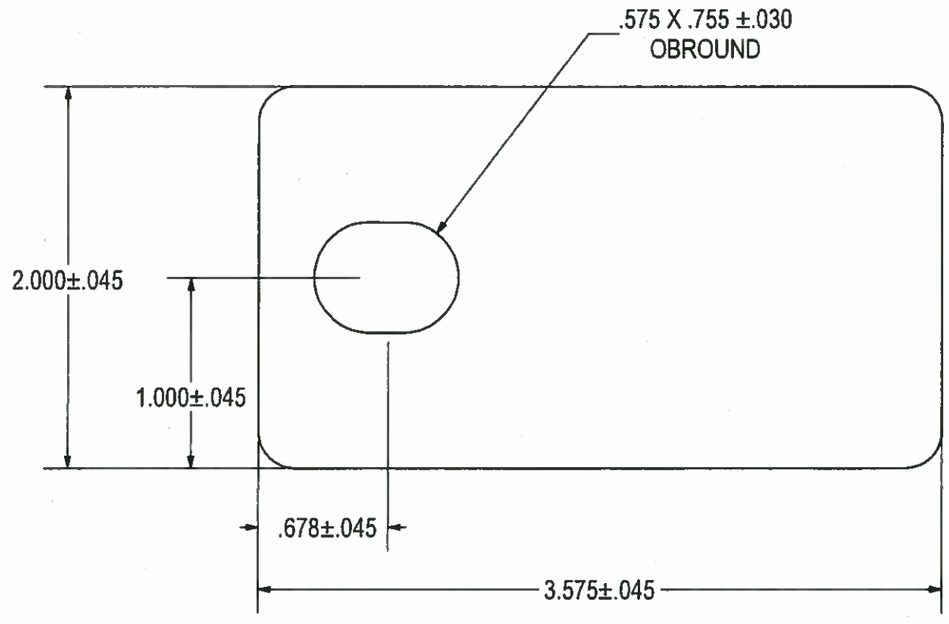
28243
STRUCTURAL ENGINEER
PROFESSIONAL ENGINEER
6/11/15



FORMED DETAILS







FLAT PATTERN

APPROVED
Washington State
Department of Transportation
HQ Traffic Operations Office
DATE June 17, 2015 TAT

3/16HR - 3.575 X 2.000
X = .325 @ 90° .188 R

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Prepared for H³ PRECAST INC.

LATCH HOUSING, TYPE 8 J BOX

SIZE	DRAWN BY:	PROGRAM NUMBER:	REV.
A	DREW KEIM	716-T812	A
		DATE CREATED: 8/21/12	

SCALE :NONE | CAD FILE: 12 LATCH HOUSING, T8 | SHEET 1 of 1

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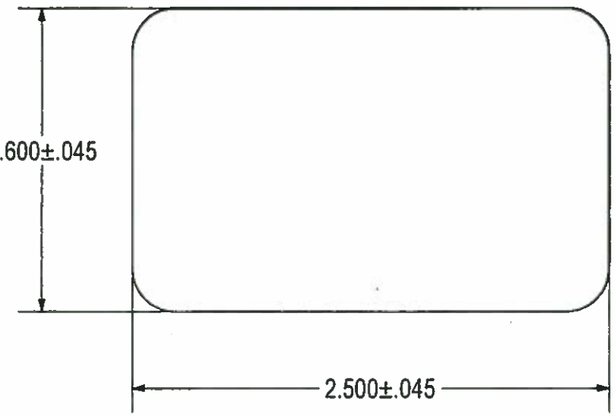
GERARD G. NAVARRA
STATE OF WASHINGTON
28243
STRUCTURAL ENGINEER
PROFESSIONAL ENGINEER

6/11/15



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DATE June 17, 2015 TAT

3/16 HR - 2.500 x 1.600
(2) PLS

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Prepared for H² PRECAST INC.

FRAME FILLER; TYPE 8 J BOX

SIZE	DRAWN BY:	PROGRAM NUMBER:	REV.
A	DREW KEIM	DATE CREATED: 8/1/12	716-T813
SCALE :NONE	CAD FILE: 13 FRAME FILLER	SHEET 1 of 1	

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This assembly is constructed and tested to conform with WSDOT Standard Specification 9-29.2(2), Standard Duty Junction Boxes.

REV	DESCRIPTION	DATE	INITIALS
A	1/4" HR WAS 3/8" HR	6/5/14	DK

GERARD G. NAVARRA
STATE OF WASHINGTON
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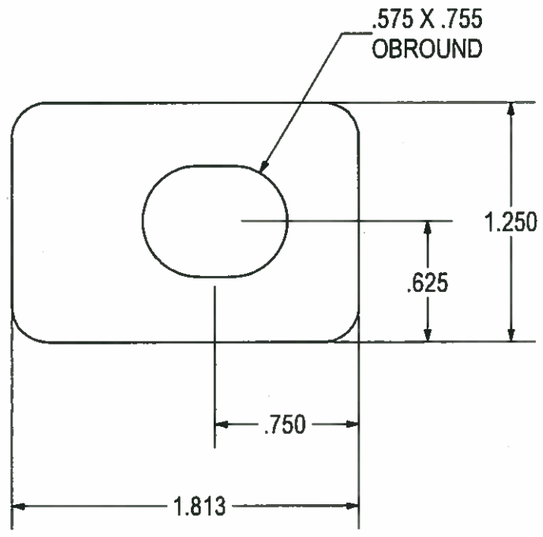
PROFESSIONAL ENGINEER

6/11/15



APPROVED
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DATE June 17, 2015 TAT

1/4 HR - 1.813 X 1.250
(1) REQ'D

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Prepared for H² PRECAST INC.

LOCK LATCH -

HOLES ± 0.030	SIZE A	DRAWN BY: DREW KEIM	PROGRAM NUMBER:	716-L002	REV. A
X.XXX ± 0.060			DATE CREATED: 5/21/12		
ANGLES ± 1.0°	SCALE :NONE	CAD FILE: 716-L002A		SHEET 1 of 1	

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REV	DESCRIPTION	DATE	INITIALS
A	REDESIGNED. SHORTENED. ADDED SIDE FLANGES.	6/10/14	DK

GERARD G. NAVARRA
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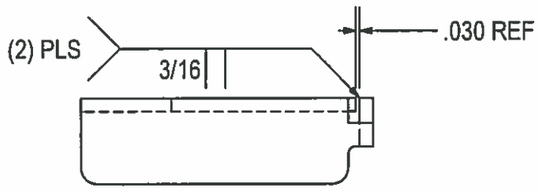
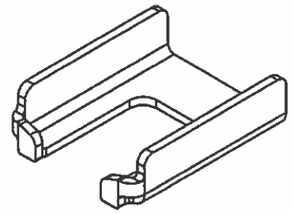
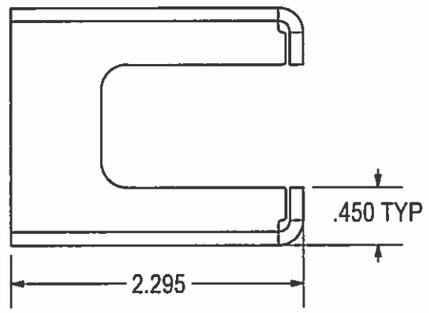
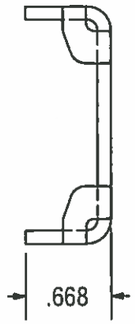
PROFESSIONAL ENGINEER
6/11/15

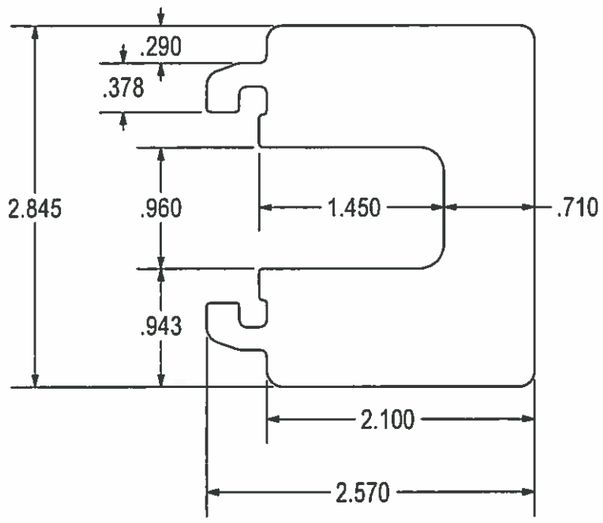




FORMED DETAILS







FLAT PATTERN

12 GA HR - 3.095 X 2.570
X = .175 @ 90° .090 R
(1) REQ'D

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HQ Traffic Operations Office
DATE June 17, 2015 TAT

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HOLES ± 0.030
X.XXX ± 0.060
ANGLES ± 1.0°

Prepared for H³ PRECAST INC.

LATCH GUIDE

SIZE	DRAWN BY:	PROGRAM NUMBER:	716-L004	REV.
A	DREW KEIM	DATE CREATED: 5/21/12		A

SCALE :NONE | CAD FILE: 716-L004A | SHEET 1 of 1

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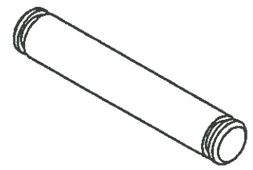
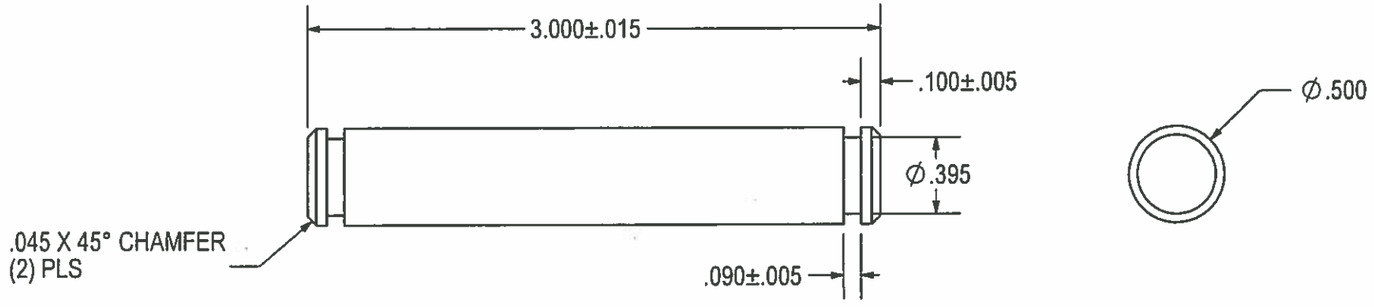
GERARD G. NAVARRA
STATE OF WASHINGTON
28243
STRUCTURAL ENGINEER
PROFESSIONAL ENGINEER

6/11/15





APPROVED
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HQ Traffic Operations Office
DATE June 17, 2015 TAT

1/2 RB 316 SS - 3.000 LONG
(4) REQ'D

THIS DRAWING CREATED FOR MANUFACTURING REFERENCE ONLY AND IS NOT INTENDED TO SUPERCEDE H² PRECAST INC. DRAWINGS OR SPECIFICATIONS OF THE REFERENCED PART.

HOLES ± 0.030
X.XXX ± 0.060
ANGLES ± 1.0°

SIZE A | DRAWN BY: DREW KEIM | PROGRAM NUMBER: 100-11138 | DATE CREATED: 9/10/12 | REV.
SCALE :NONE | CAD FILE: 100-11138 | SHEET 1 of 1

Prepared for H² PRECAST INC.

HINGE PIN, LARGE

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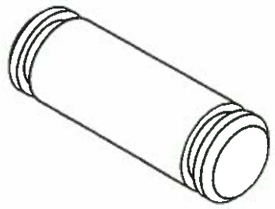
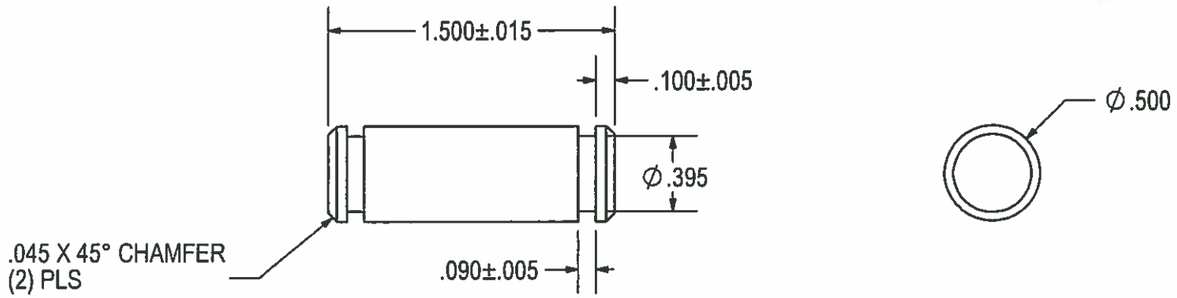
This assembly is constructed and tested to conform with WSDOT Standard Specification 9-29.2(2), Standard Duty Junction Boxes.

GERARD G. NAVARRA
STATE OF WASHINGTON
28243
STRUCTURAL ENGINEER
PROFESSIONAL ENGINEER

6/11/15





APPROVED
Washington State
Department of Transportation
HQ Traffic Operations Office
DATE June 17, 2015 TAT

1/2 RB 316 SS - 1.500 LONG
(4) REQ'D

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HINGE PIN, SM

SIZE	DRAWN BY:	PROGRAM NUMBER:	REV.
A	DREW KEIM	100-11139	
		DATE CREATED: 9/10/12	
SCALE :NONE	CAD FILE: 100-11139	SHEET 1 of 1	

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