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# WESTERN METAL DECK

(909) 467-2016 • METALROOFINGCALIFORNIA.COM

## R PANEL / PBR PANEL

### INSTALLATION GUIDE WITH TRIM, FLASHINGS AND DETAILS



4170-22

**Western Metal Deck**  
616 S. Oaks Ave. Ontario, CA 91762

☎ (909) 467-2016  
✉ [sales@metalroofingcalifornia.com](mailto:sales@metalroofingcalifornia.com)

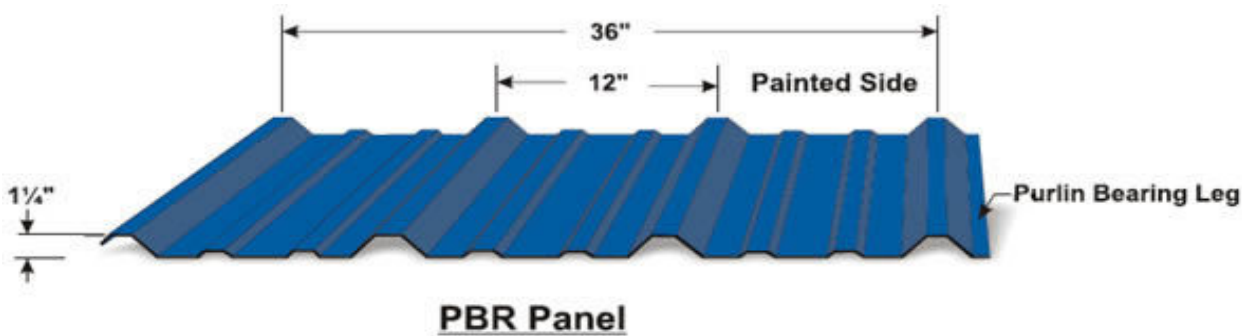
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# Western States R Panel

Installation, Flashings & Shop Drawing Detail *Guide*

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## **Western States “R” Panel**

Installation, Flashings & Shop Drawing Detail Guide

### **Notes to Designer and Installers**

The details contained in this guide are proven industry details and are intended to be used as a design aid and installation guide. It does not depict all situations that may be encountered on all projects. Modifications are the responsibility of the designer/ owner/ installer. Consideration should be given for Fit for Purpose, Building use, Climate conditions such as temperature, snow, wind, and moisture, Governing Building Codes, and Maintenance. It is highly recommended that all trims and flashings be of the same material as the panels (metal, gauge, finish) to ensure long term performance and durability. Where possible, flashing edges should be hemmed to strengthen the edge and protect the cut edge from exposure.

### **Framing and Substrates**

“R” panels are used over all type of substrates like Steel Decking, open purlins, spaced sheathing, and wood decking such as plywood. Most details in this guide are shown with panels attached to Purlins.

### **Note on underlayment**

Not all conditions require an underlayment, However metal roofing is susceptible to Condensation and it is recommended that an appropriate Roofing underlayment be use on all wood substrates to protect the structure during installation. For added protection from rain and snow, it is recommended to use rubberized Ice and water shield on eaves, valleys, and areas of roof penetrations.

### **Slope Requirements**

It is recommended that “R” panels have a minimum slope requirement of 1:12 on all structures.

## **Valley and Snow Design**

Valley design and dimension must be the proper width to accommodate high snow, rain, ice, and slope conditions. If possible, splices, penetrations, valleys, roof elevation changes, should be minimized in areas of high snow and ice accumulations.

### **Oil Canning**

Oil canning is a condition common with flat metal surfaces. This waviness is caused by steel mill tolerances, forming, variations in the structures surfaces, and hardness of the steel. Measures are taken at the roll forming process, like profile design, steel gauge, corrective leveling, to minimize the effects of oil canning. Oil Canning is a Characteristic of steel and can not be eliminated totally and therefore is not reason for rejection of the panels.

### **Job Site Storage**

While waiting to be installed on the job site, Storage of panels, trim crates, and flat sheet should be sloped in order to allow for proper moisture run off. One end should be elevated so as not to allow ponding of water on the metal surface. When using tarps for protection, proper ventilation should be provided to prevent condensation. Moisture or condensation that is trapped inside a bundle can lead to white rust on sheeting.

### **References**

For other installation techniques and details, The Sheet Metal and Air Conditioning Contractors National Association Inc. (SMACNA) and NRCA manuals are great resources for working with sheet metal.

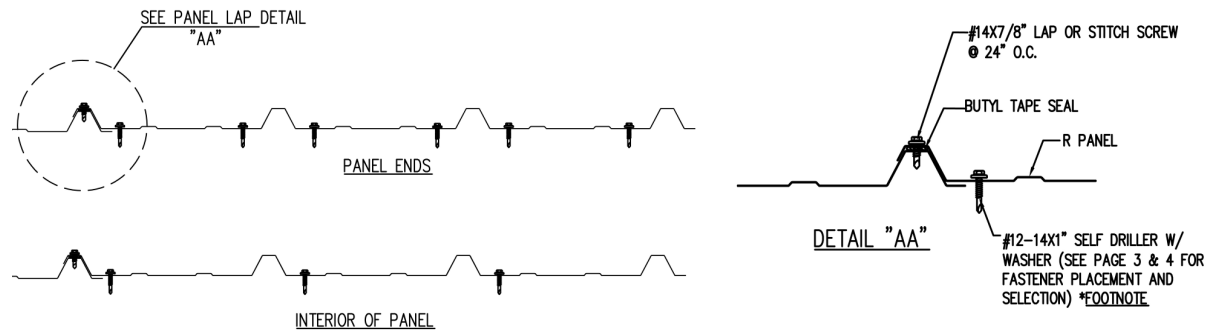
### **Technical Assistance**

Contact your WSDI sales or technical representative for any additional information or assistance.

## Western States Metal Roofing “R” Panel

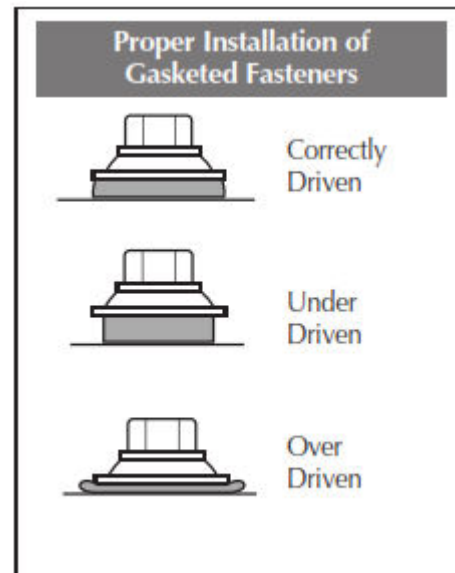
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### Fastener Placement and Selection



#### Notes to Installers:

- Fastener Selection will vary depending on type and thickness of substrate.
- Space panel lap screws 12" minimum -24" O.C. maximum. Consult with design engineer.
- Spacing of fastener rows to be engineered by others.
- Lap panels away from prevailing winds whenever possible.
- The use of Butyl tape mastic is always recommended on the panel lap when used for roof panels.
- Panels and flashings should never be installed in contact with dissimilar metals.
- Use only those flashings and accessories designed for use with this panel.
- Panel attachment screws must be long enough to fully penetrate through roof deck substrate or penetrate solid lumber at least one inch.
- Exposed Fasteners should have sealing washers and be coated to provide protection against corrosion.
- Screws must be properly driven to ensure holding strength and proper seal. (see diagram)
- Recommended drill speed is 2000rpm. Improper setting of drill speed can lead to snapping of screw heads.
- Pre drilling of screw holes may be necessary with heavy gauge metals.



## Western States Metal Roofing “R” Panel

Installation, Flashings & Shop Drawing Detail Guide

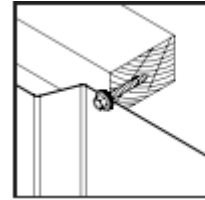
### Fastener Selection

#### Description

#### Application

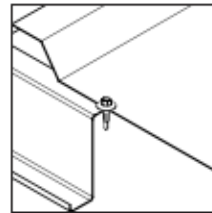
#9 x1” Wood Drillers  
#9 x 1.5” Wood Drillers  
#9 x2” Wood Drillers

Used to attach panels to dimensional Lumber and plywood



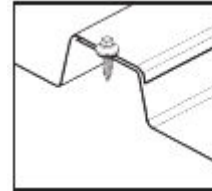
#12-14 x 1” SD  
#12- 14 x1.5” SD  
#12- 14 x 2” SD  
#12-24 x1.25 SD

Used to attach panels to Purlins and other metal substrates



¼ x 7/8” Lap Self tap  
¼” x7/8 Lap Stainless

Used to attach Trims and panel side laps. Stainless to be used with A606-4 Steel



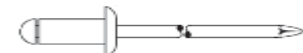
#10-12 x1” Pancake Wood  
#10-12 x 1” SD Self Driller

Used to secure trims to substrates. Also available in Stainless Steel.



1/8” Stainless Rivets

Used for Trim to Trim attachment or trim to wall panels.

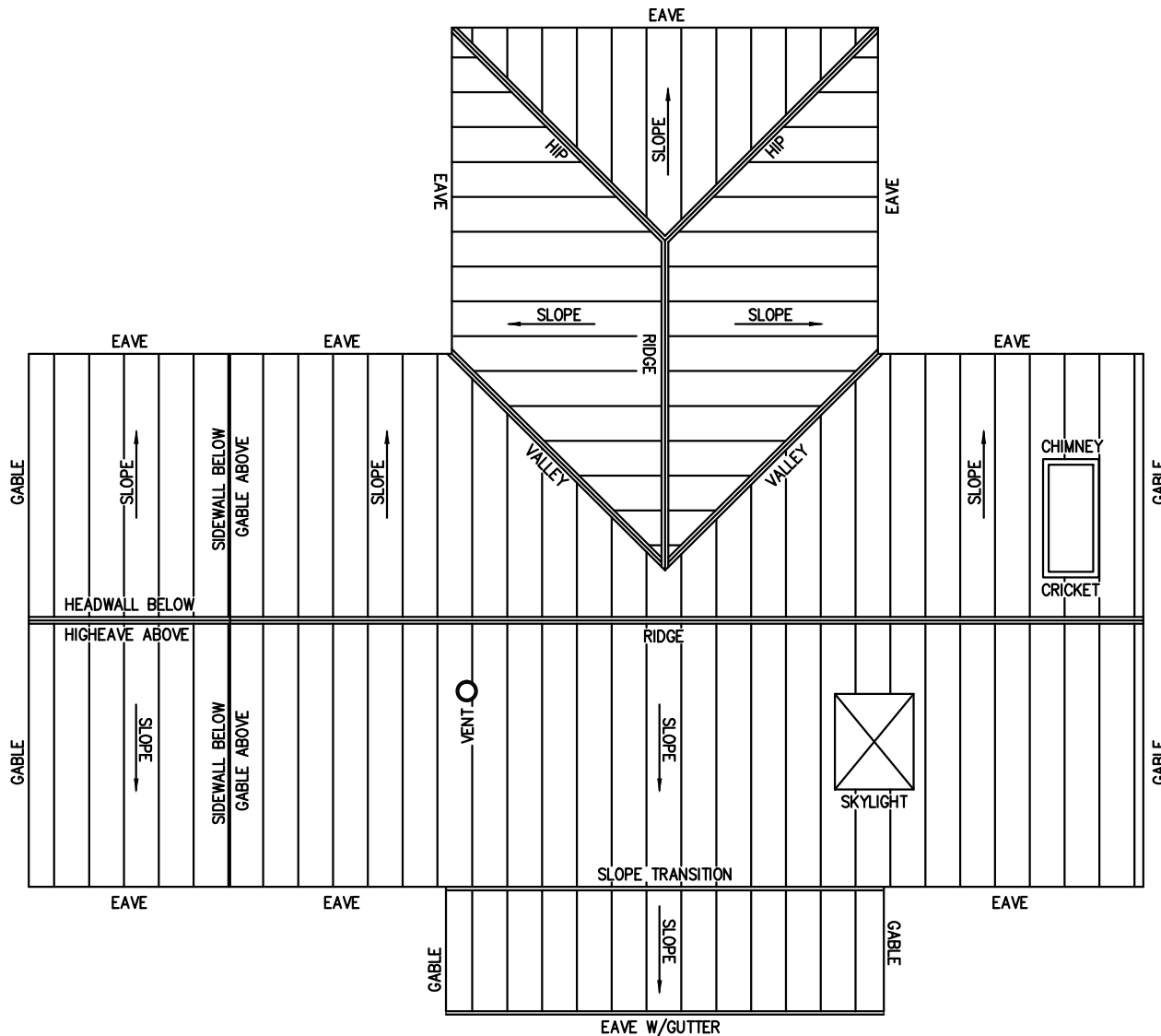


Stainless Screws  
#10 x1 Wood Drillers  
#10 x 1.5 Wood Drillers  
#10 x 2” Wood Drillers

Used for panel attachment for panels made with A606-4 Steel



The table above shows the panel Fasteners provided by WSD. Special order screws are available.



# FLASHING TYPE

# DETAIL NO.

STANDARD TRIM	WSD-ST5
STANDARD TRIM	WSD-ST6
STANDARD TRIM	WSD-ST7
STANDARD TRIM	WSD-ST8
EAVE	WSD-E1
MINE EAVE	WSD-ME1
EAVE-PRE-HUNG GUTTER	WSD-EPRG1
EAVE-POST-HUNG GUTTER	WSD-EPOG2
POST-HUNG GUTTER SPLICE	WSD-EG3
GABLE FLASHING	WSD-GF2
MINI GABLE FLASHING	WSD-MGF2
SCULPTURED GABLE FLASHING	WSD-SGF2
UNIVERSAL GABLE FLASHING	WSD-UGF2
PEAK-HIGH EAVE FLASHING	WSD-PK3
SIDEWALL FLASHING	WSD-SW4
ENDWALL FLASHING	WSD-EW5
FORMED RIDGE	WSD-FR6
RIDGE-HIP	WSD-RH6
VALLEY FLASHING	WSD-V7
PITCH BREAK HIGH TO LOW	WSD-PB8
PITCH BREAK LOW TO HIGH	WSD-PB9
CHIMNEY FLASHING	WSD-CF10
CHIMNEY FLASHING	WSD-CF11
CHIMNEY CRICKET FLASHING	WSD-CF12
ISOMETRIC DETAIL	WSD-CF13
PIPE FLASHING	WSD-PF14
WALL DETAILS	WSD-W15
ISOMETRIC WALL DETAIL	WSD-W16
WALL DETAIL	WSD-W17
WALL DETAIL	WSD-W18
WALL DETAIL	WSD-W19
NOTES	WSD-N20
CUSTOM TRIM SHEET	WSD-CT21

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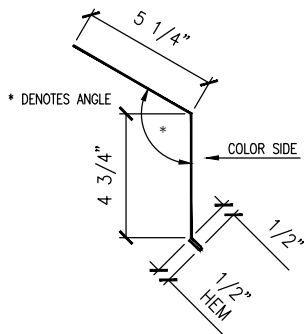
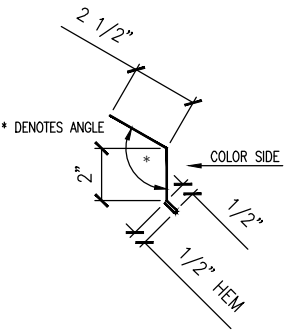
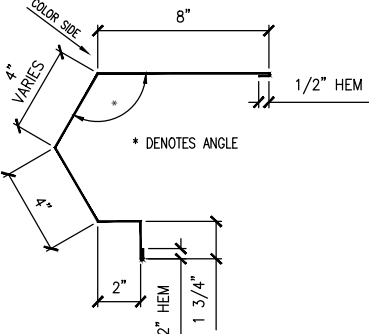
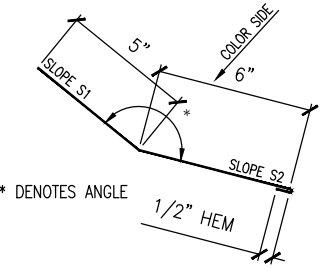
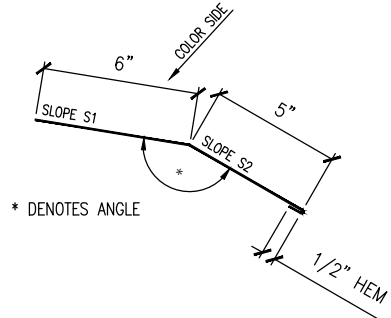
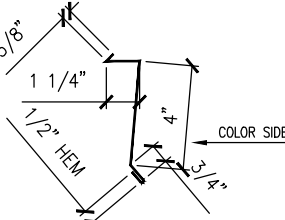
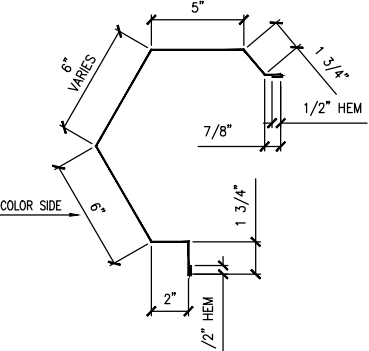
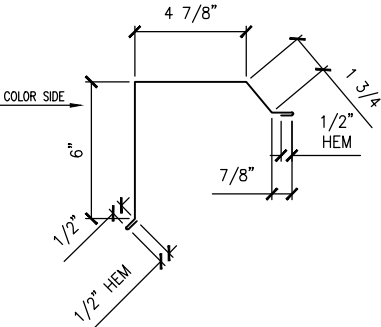
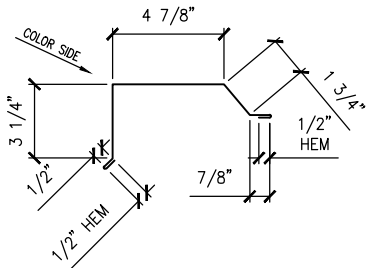
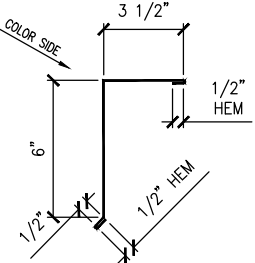
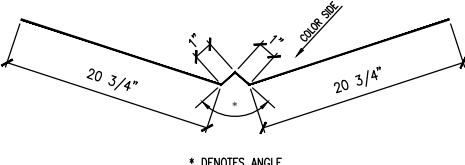
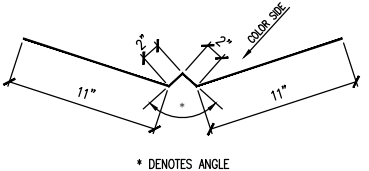
DETAIL:

## KEY ROOF PLAN

PANEL TYPE:

R-Panel

B	01-14-13
A	06-18-12
REV:	DATE:
DETAIL #:	

EAVE FLASHING WS-204	MINI EAVE FLASHING WS-240	SCULPTURED EAVE WS-245	PITCH BREAK HIGH TO LOW WS-236
			
PITCH BREAK LOW TO HIGH WS-237	CUSTOM TRIM REGLET FLASHING WS-229	SCULPTURED GABLE WS-209	GABLE FLASHING WS-211
			
MINI GABLE FLASHING WS-241	UNIVERSAL GABLE FLASHING WS-298	OVERSIZED VALLEY WS-223	STANDARD VALLEY WS-224
			

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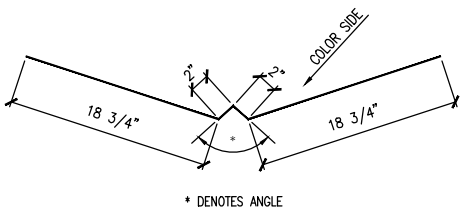
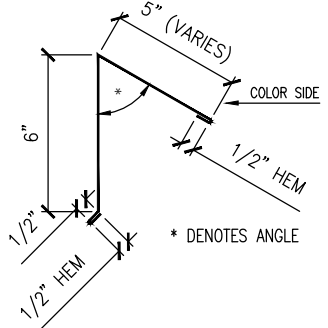
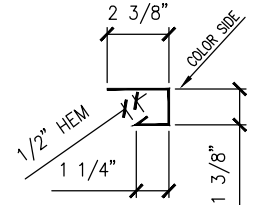
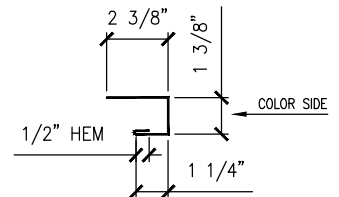
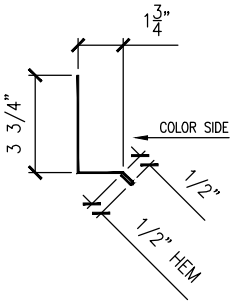
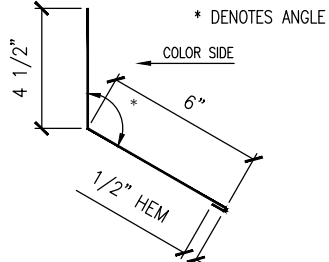
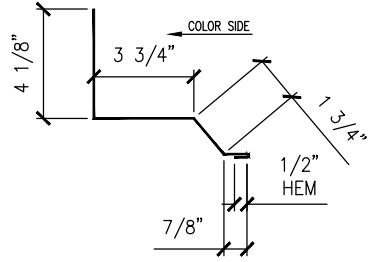
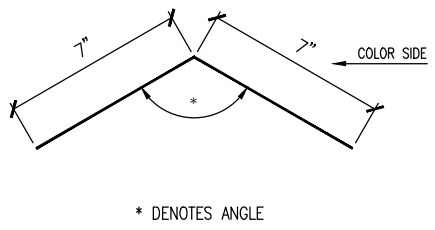
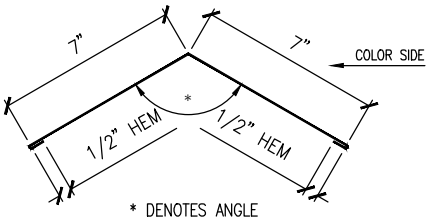
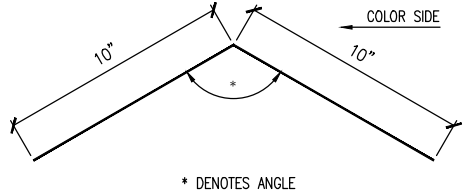
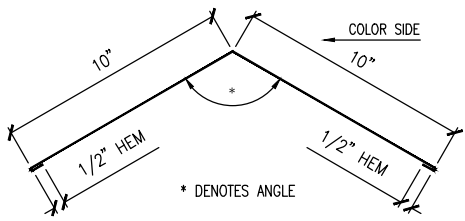
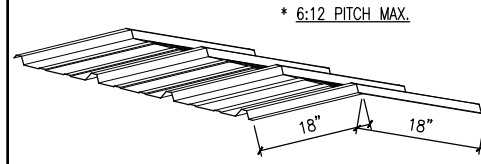
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### STANDARD TRIM

PANEL TYPE:

R-Panel

B	01-14-13
A	06-18-12
REV:	DATE:
DETAIL #:	WSD-ST5

EXTENDED VALLEY WS-225	PEAK FLASHING WS-219	JAMB TRIM WS-203	HEAD TRIM WS-208
			
BASE TRIM WS-206	ENDWALL FLASHING WS-228	SIDEWALL FLASHING WS-207	RIDGE/HIP CAP WS-205
			
RIDGE/HIP CAP WS-205H	RIDGE/HIP CAP WS-220	RIDGE/HIP CAP WS-220H	DIE FORMED RIDGE CAP WS-221
			

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### STANDARD TRIM

PANEL TYPE:

R-Panel

B	01-14-13
A	06-18-12
REV:	DATE:
DETAIL #:	WSD-ST6



OUTSIDE CORNER WS-202	INSIDE CORNER WS-230	CRICKET FLASHING CUSTOM TRIM WS-299	SCULPTURED PRE-HUNG GUTTER WS-201
BOX GUTTER PRE-HUNG WS-210	BOX GUTTER POST-HUNG WS-215	SCULPTURED POST-HUNG GUTTER WS-217	SPLICE WS-213 FOR BOX GUTTER
SPLICE WS-260 FOR SCULPTURED GUTTER	DOWNSPOUT STRAIGHT WS-226	DOWNSPOUT WITH KICKOUT WS-227	DOWNSPOUT ELBOW WS-243

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### STANDARD TRIM

PANEL TYPE:

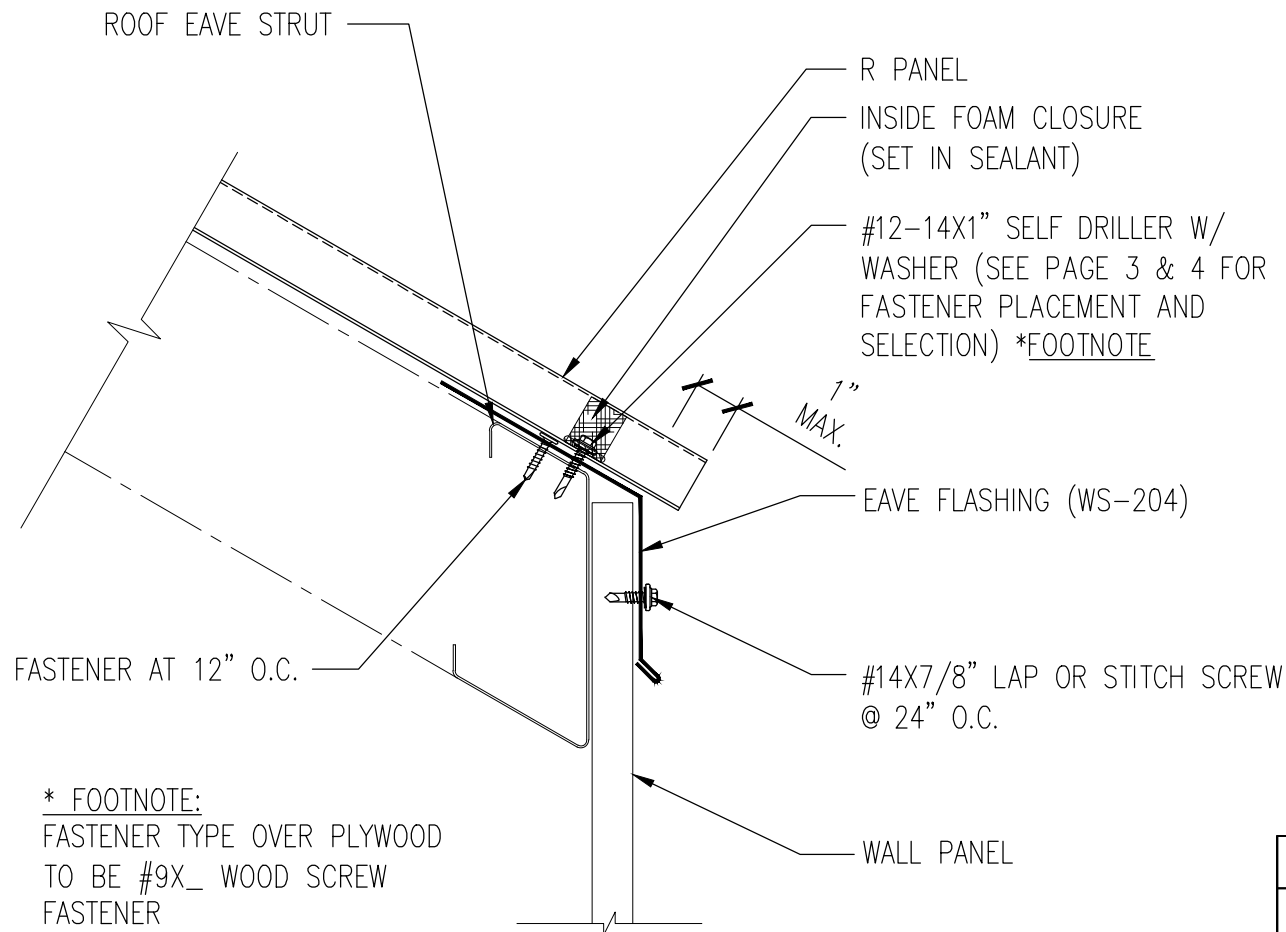
R-Panel

B	01-14-13
A	06-18-12
REV:	DATE:
DETAIL #:	WSD-ST7

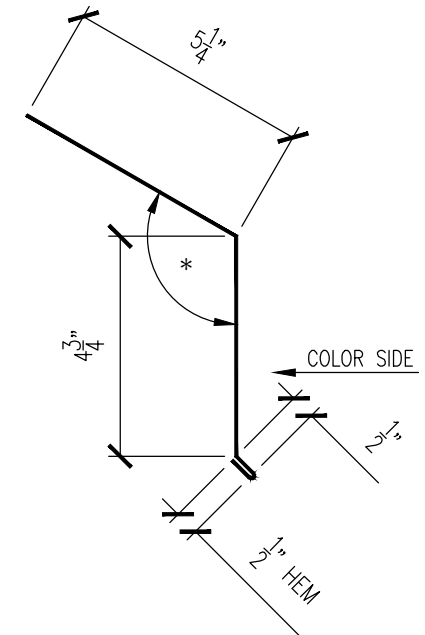
<p>DOWNSPOUT STRAP WS-242</p>	<p>DOWNSPOUT OUTLET WS-275</p>	<p>GUTTER STRAP WS-212</p>	<p>BOX GUTTER END CAP WS-214</p>
<p>SCULPTURE GUTTER END CAP WS-249</p>			

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				A	06-18-12
<p>PANEL TYPE:</p> <p><b>R-Panel</b></p>		<p>REV: DATE:</p> <p>DETAIL #:</p> <p><b>WSD-ST8</b></p>			

NOTE:  
FOR HIGH SNOW AREA THE OVERHANG  
SHOULD BE 1" MAX.



\* FOOTNOTE:  
FASTENER TYPE OVER PLYWOOD  
TO BE #9X\_ WOOD SCREW  
FASTENER



EAVE FLASHING (WS-204)

\* DENOTES ANGLE

GAUGE: _____	COLOR: _____
BREAKS: _____	FINISH: _____
LENGTH: _____	STRETCH OUT: _____
MATERIAL: _____	

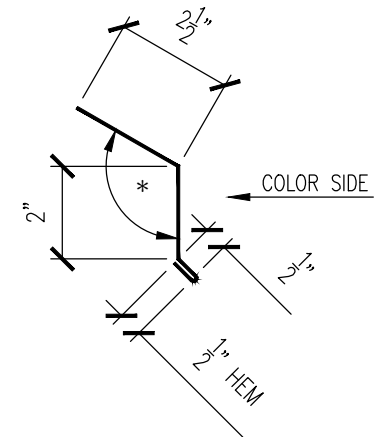
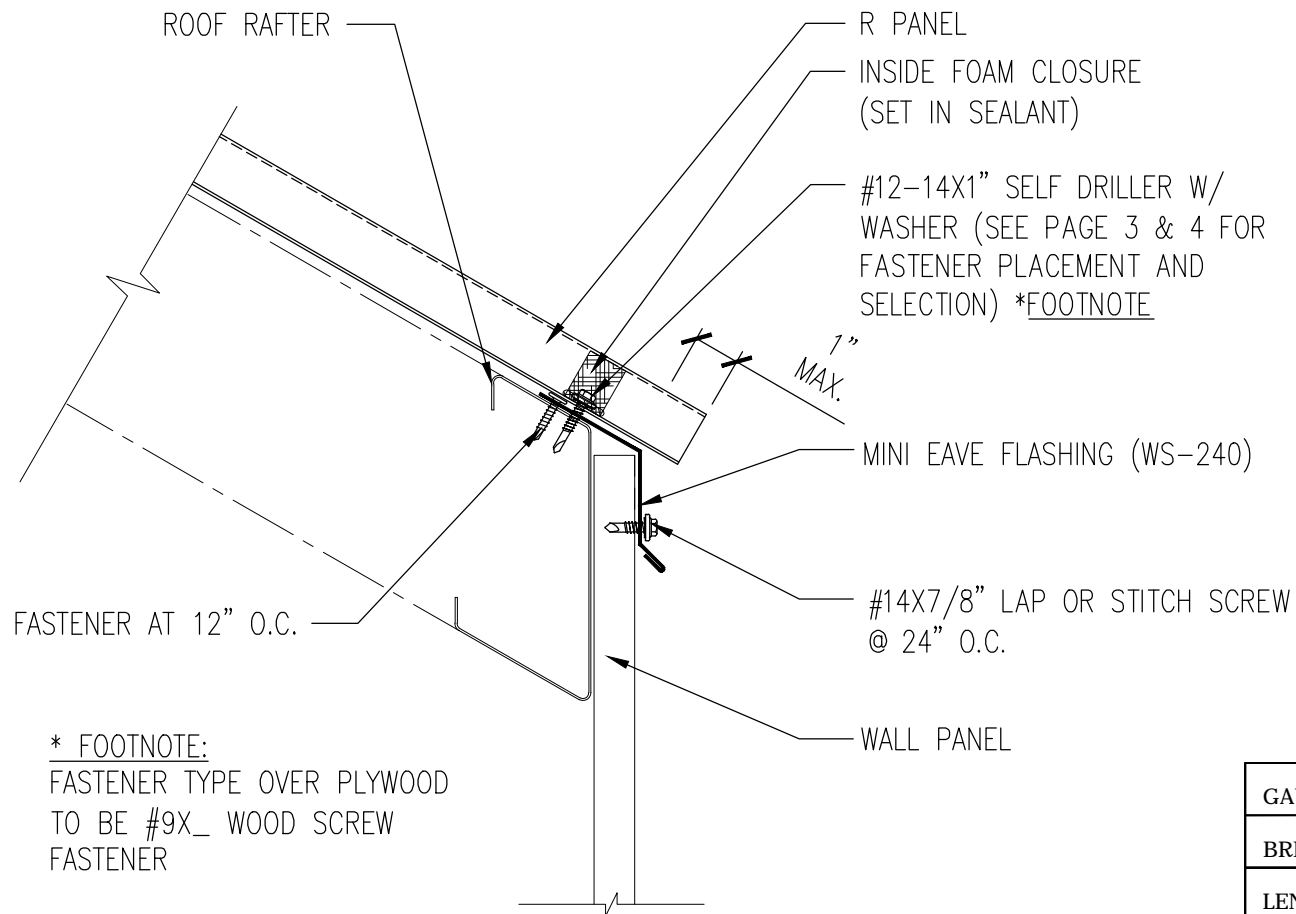
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EAVE DETAIL	B	01-14-13
	A	06-18-12
PANEL TYPE: R-Panel	REV:	DATE:
	DETAIL #:	WSD-E1

NOTE:  
FOR HIGH SNOW AREA THE OVERHANG  
SHOULD BE 1" MAX.



MINI EAVE FLASHING  
(WS-240)

\* DENOTES ANGLE

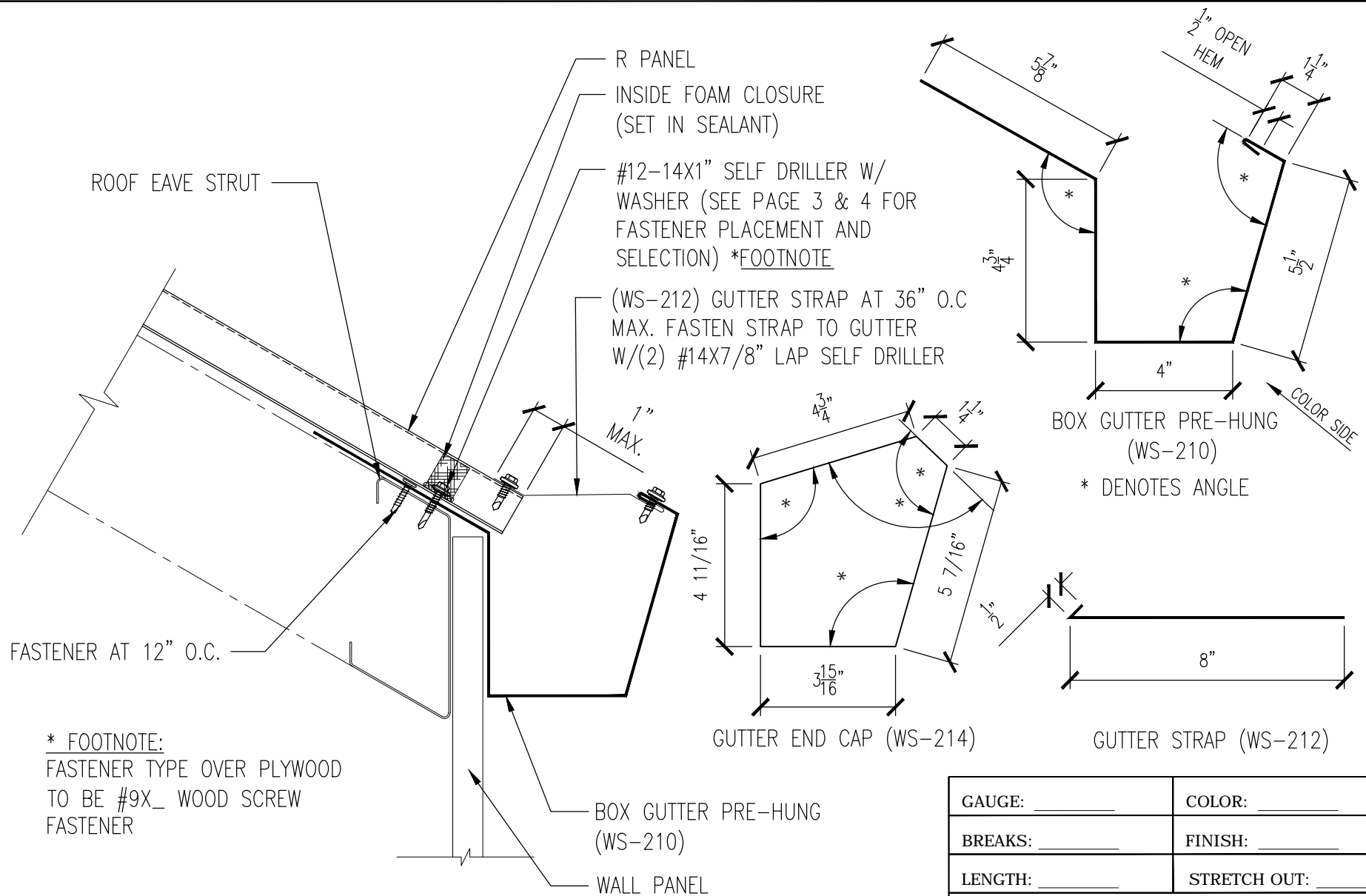
GAUGE: _____	COLOR: _____
BREAKS: _____	FINISH: _____
LENGTH: _____	STRETCH OUT: _____
MATERIAL: _____	

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MINI EAVE DETAIL	B	01-14-13
	A	06-18-12
PANEL TYPE: R-Panel	REV:	DATE:
	DETAIL #:	WSD-ME1

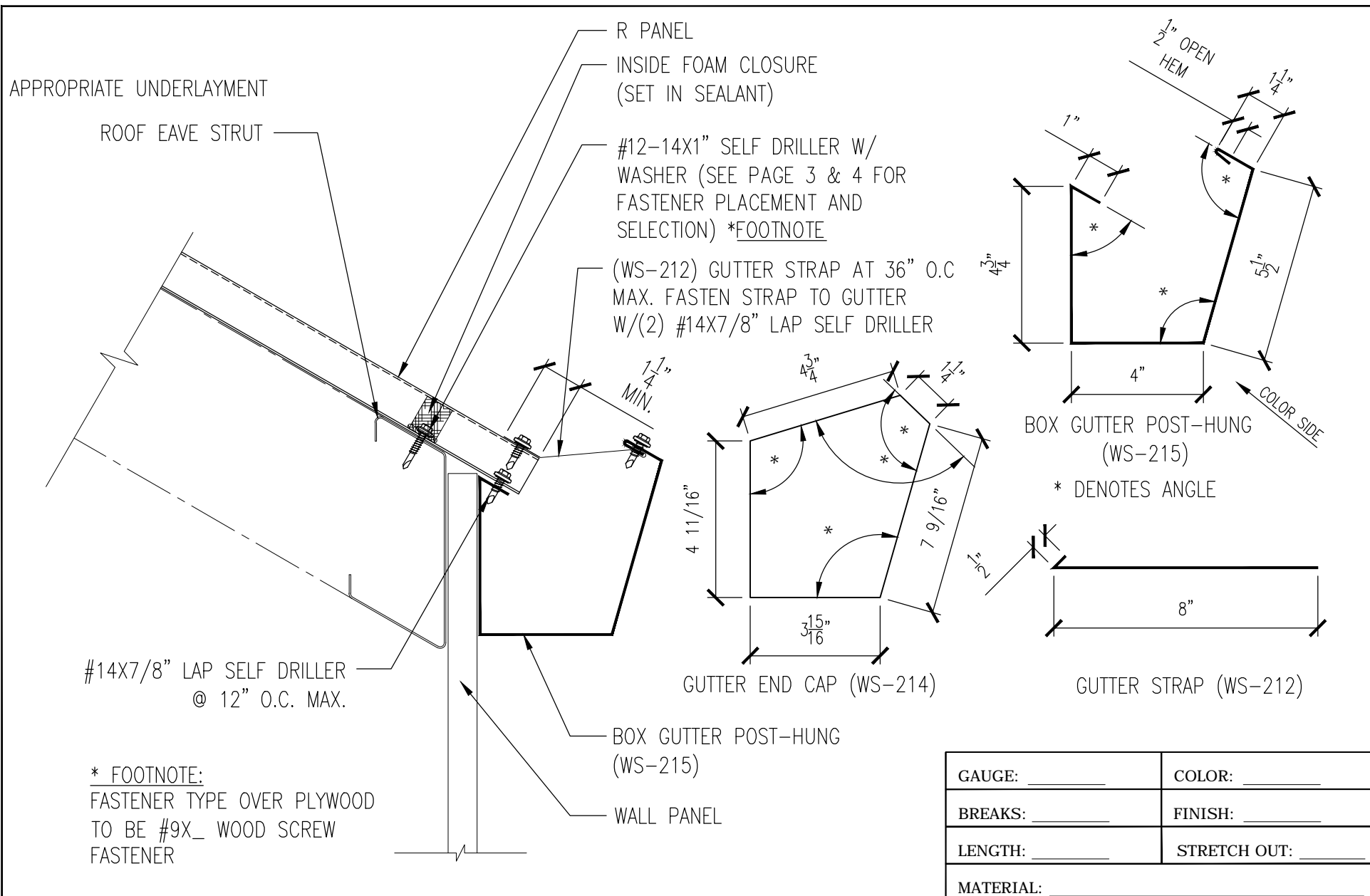


GAUGE: _____	COLOR: _____	
BREAKS: _____	FINISH: _____	
LENGTH: _____	STRETCH OUT: _____	
MATERIAL: _____		
EAVE DETAIL PRE-HUNG GUTTER DETAIL		
	B	01-14-13
	A	06-18-12
	REV:	DATE:
PANEL TYPE:	DETAIL #:	
R-Panel	WSD-EPRG 1	

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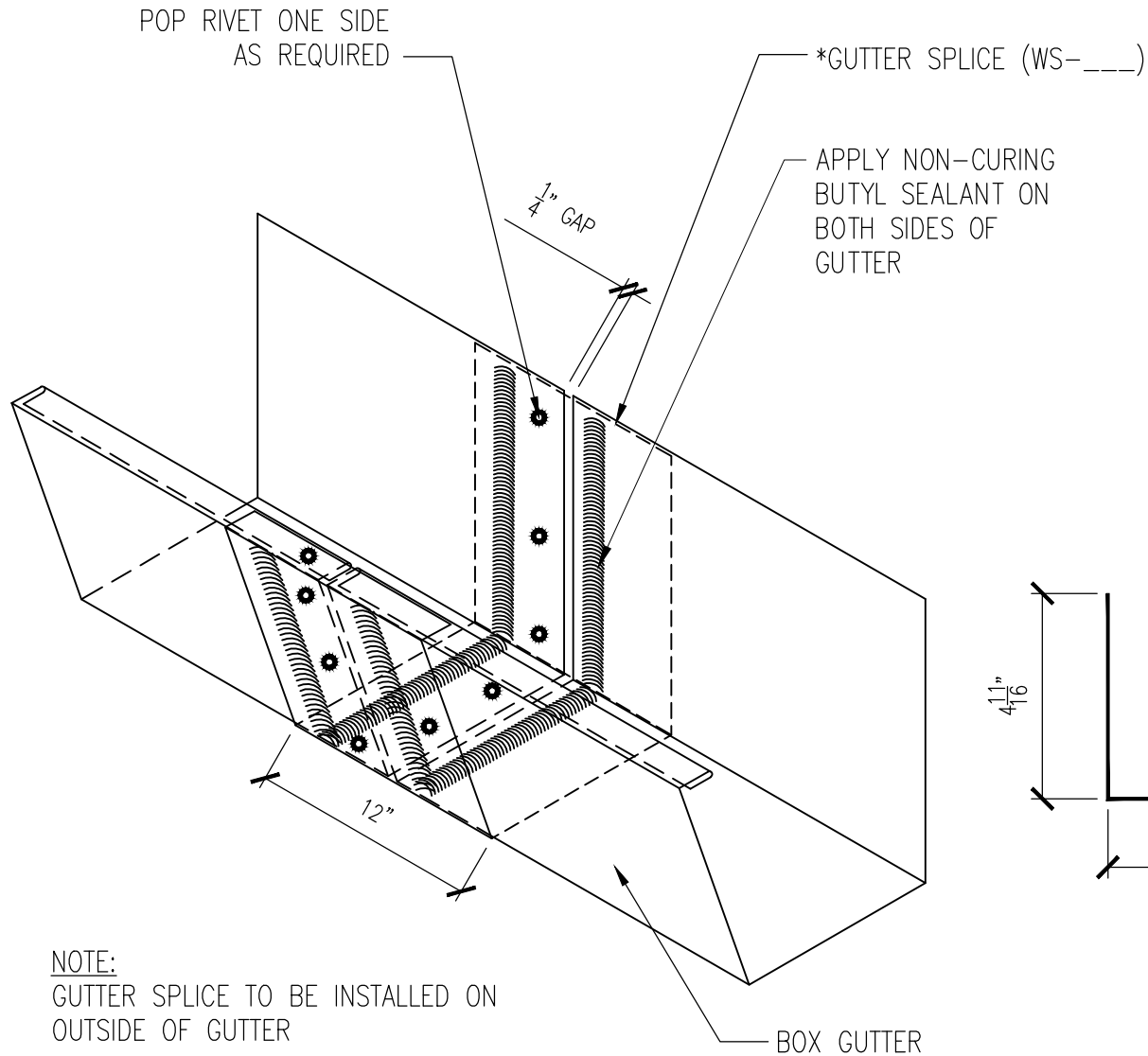


GAUGE: _____	COLOR: _____	
BREAKS: _____	FINISH: _____	
LENGTH: _____	STRETCH OUT: _____	
MATERIAL: _____		
EAVE DETAIL POST HUNG GUTTER DETAIL		
	B	01-14-13
	A	06-18-12
	REV:	DATE:
PANEL TYPE:	DETAIL #:	
R-Panel	WSD-EG2	

## Western States Metal Roofing

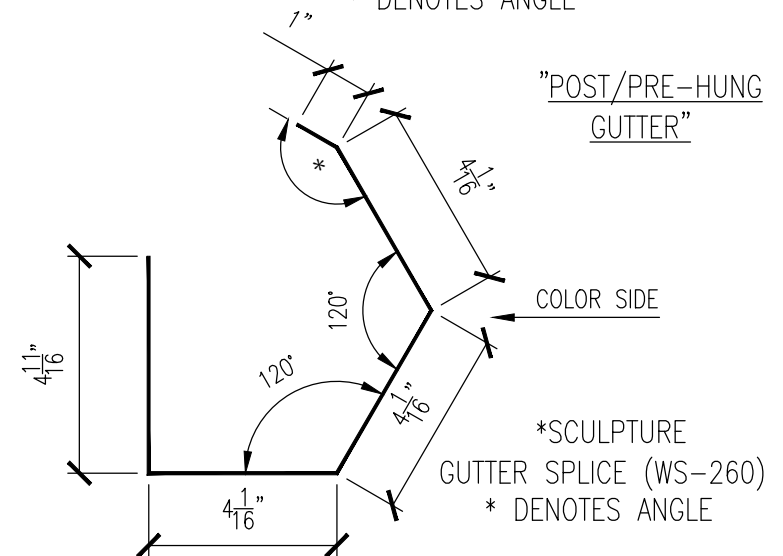
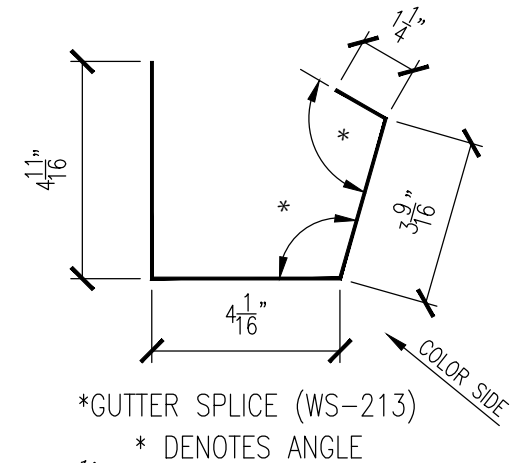
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NOTE:  
GUTTER SPLICE TO BE INSTALLED ON  
OUTSIDE OF GUTTER

BOX GUTTER



GAUGE: _____	COLOR: _____
BREAKS: _____	FINISH: _____
LENGTH: _____	STRETCH OUT: _____
MATERIAL: _____	

## GUTTER SPLICE DETAIL

PANEL TYPE:

R-Panel

B

01-14-13

A

06-18-12

REV:

DATE:

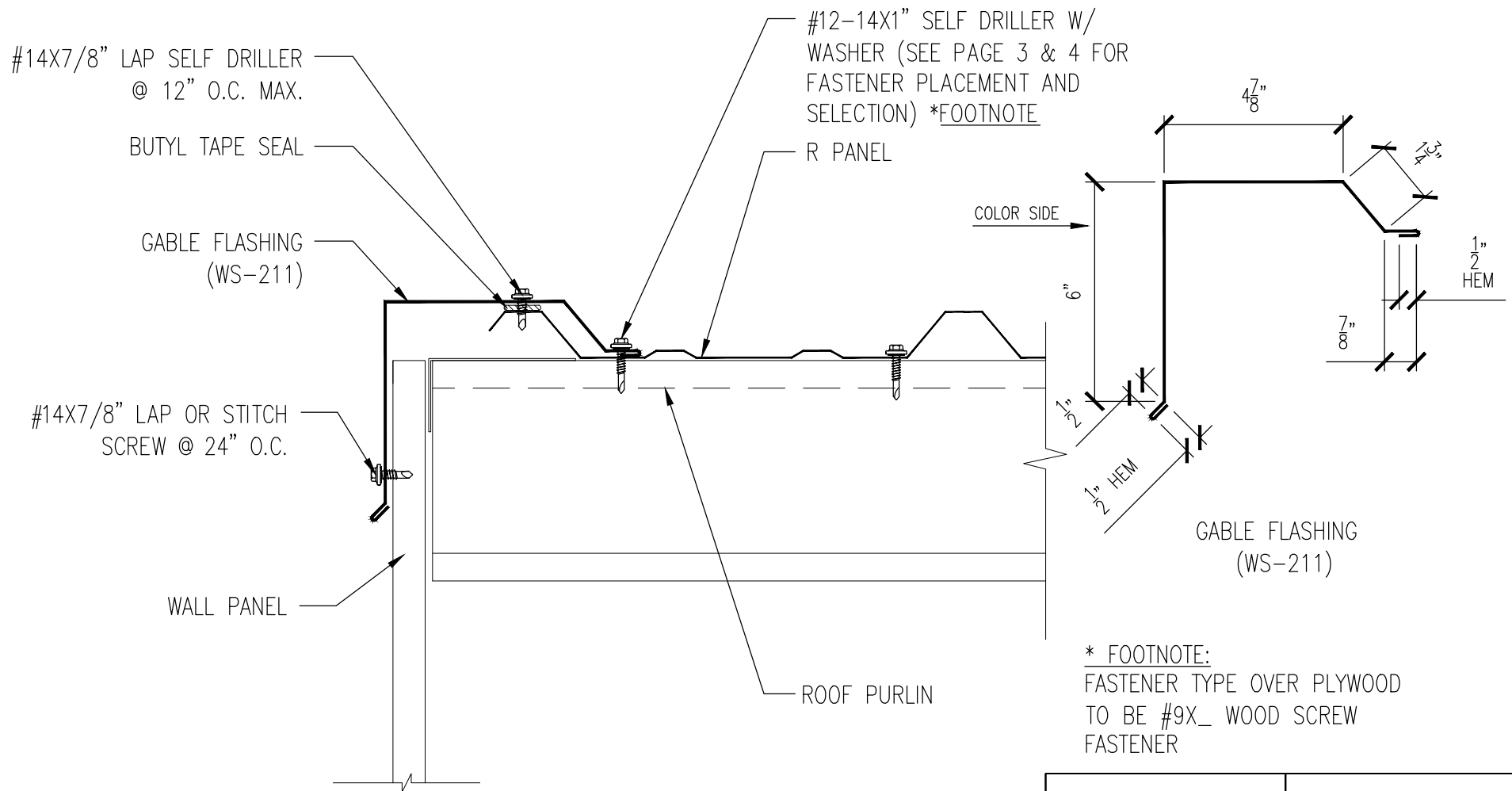
DETAIL #:

WSD-EG3

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GAUGE: _____	COLOR: _____
BREAKS: _____	FINISH: _____
LENGTH: _____	STRETCH OUT: _____
MATERIAL: _____	

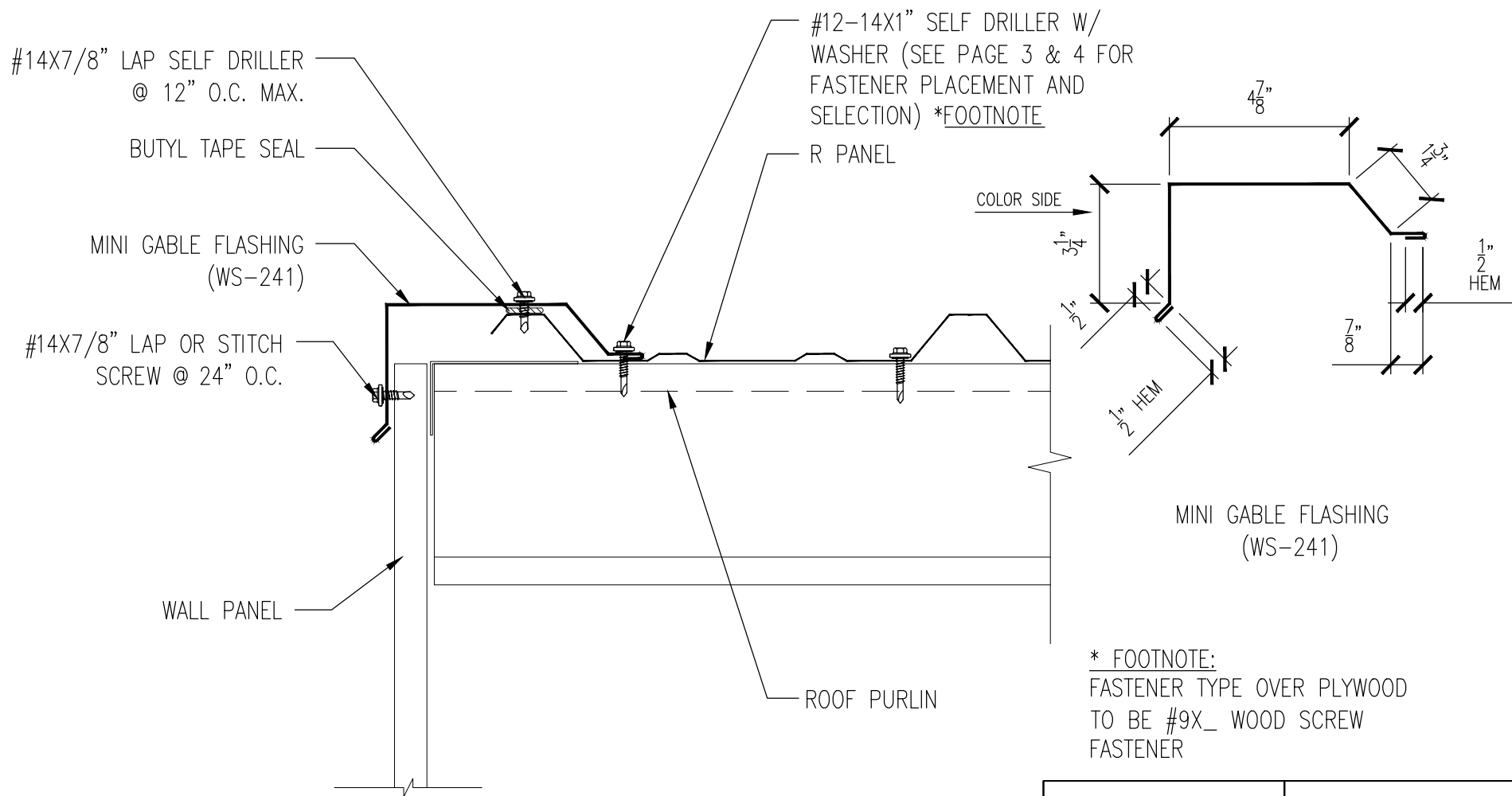
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GABLE FLASHING DETAIL	B	01-14-13
	A	06-18-12
	REV:	DATE:
PANEL TYPE: R-Panel	DETAIL #: WSD-GF2	





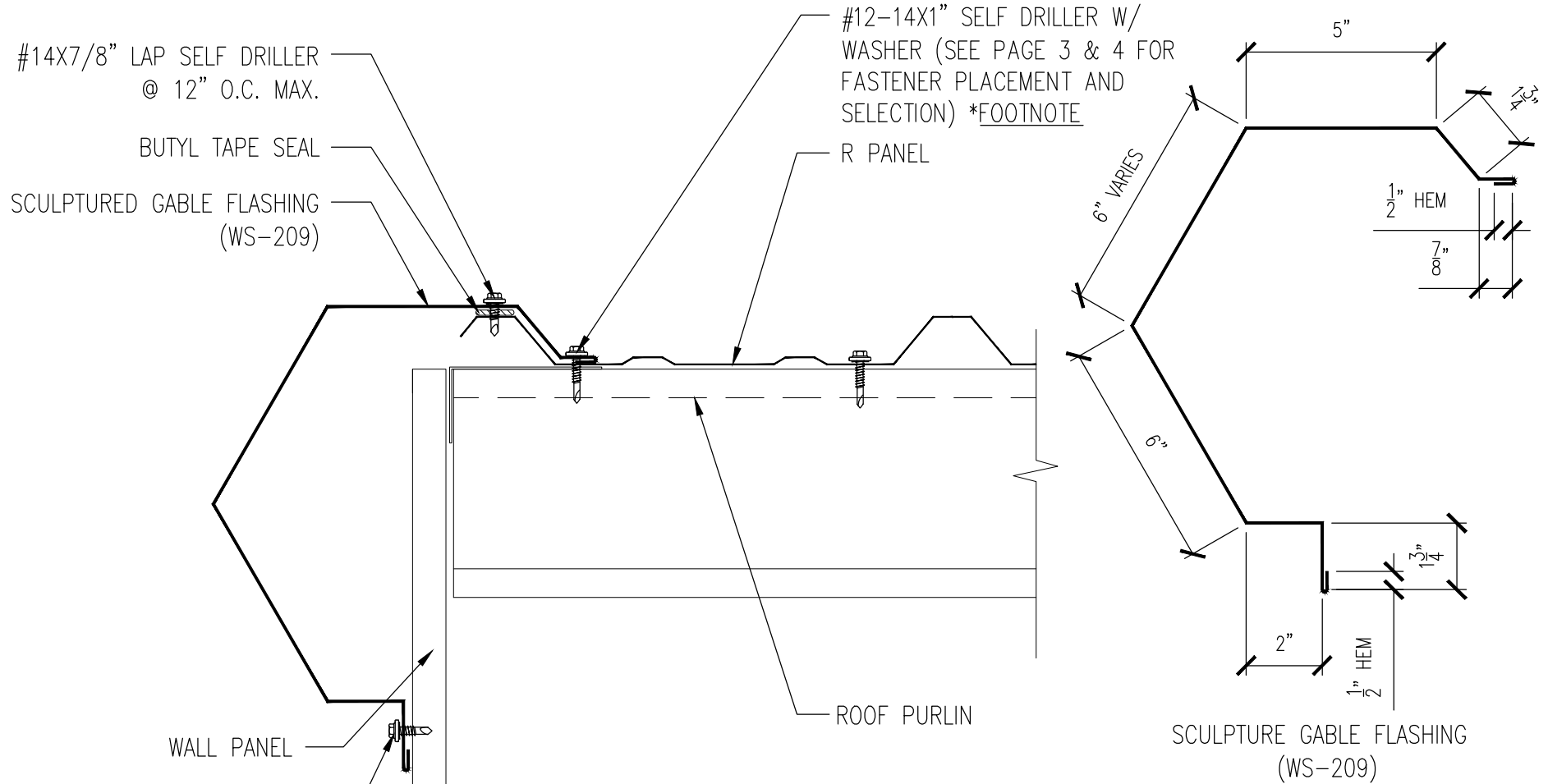
GAUGE: _____	COLOR: _____
BREAKS: _____	FINISH: _____
LENGTH: _____	STRETCH OUT: _____
MATERIAL: _____	

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MINI GABLE FLASHING DETAIL	B	01-14-13
	A	06-18-12
	REV:	DATE:
	DETAIL #:	WSD-MGF2
PANEL TYPE:	R-Panel	

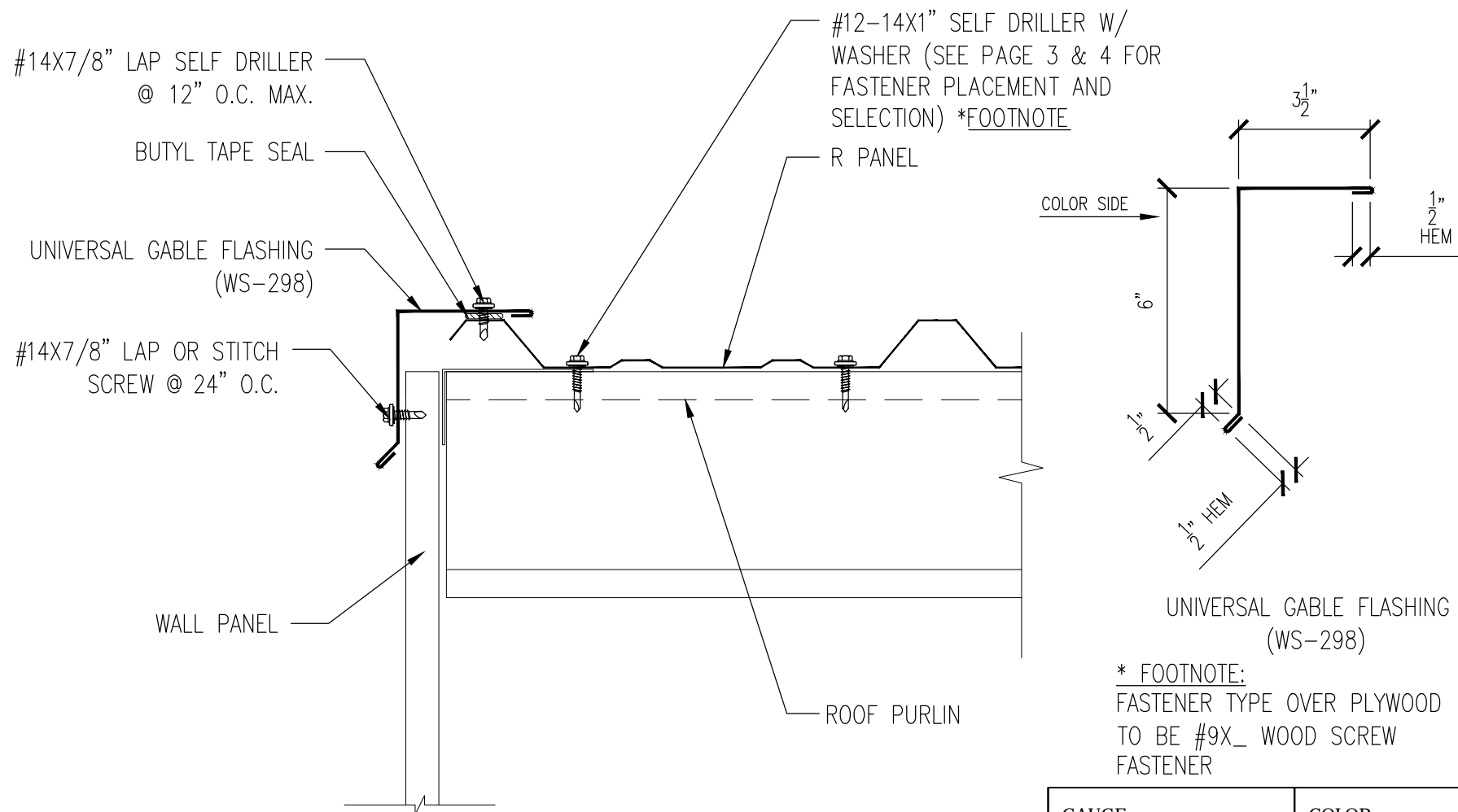


GAUGE: _____	COLOR: _____
BREAKS: _____	FINISH: _____
LENGTH: _____	STRETCH OUT: _____
MATERIAL: _____	
SCULPTURED GABLE FLASHING DETAIL	B 01-14-13
	A 06-18-12
PANEL TYPE:  R-Panel	REV: DATE:
	DETAIL #: WSD-SGF2

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\* FOOTNOTE:  
FASTENER TYPE OVER PLYWOOD  
TO BE #9X\_ WOOD SCREW  
FASTENER

GAUGE: _____	COLOR: _____
BREAKS: _____	FINISH: _____
LENGTH: _____	STRETCH OUT: _____
MATERIAL: _____	

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### UNIVERSAL GABLE FLASHING DETAIL

PANEL TYPE:

R-Panel

B	01-14-13
A	06-18-12
REV:	DATE:
DETAIL #: WSD-UGF2	

#14X7/8" LAP SELF DRILLER  
@ 12" O.C. MAX.

BUTYL TAPE SEAL

PEAK FLASHING  
(WS-219)

BUTYL TAPE SEAL

#14X7/8" LAP OR STITCH  
SCREW @ 24" O.C.

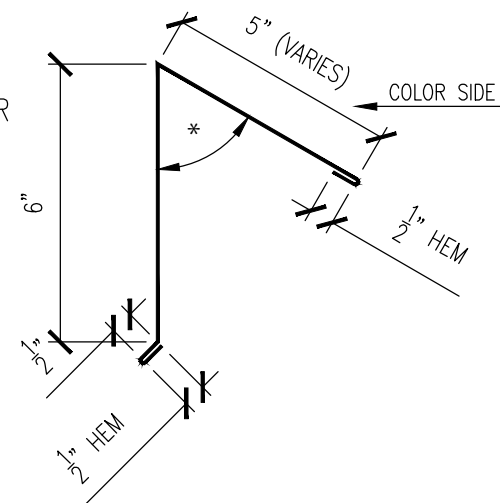
WALL PANEL

ROOF PURLIN

OUTSIDE FOAM CLOSURE  
(SET IN SEALANT)

#12-14X1" SELF DRILLER W/  
WASHER (SEE PAGE 3 & 4 FOR  
FASTENER PLACEMENT AND  
SELECTION) \*FOOTNOTE

R PANEL



PEAK FLASHING/HIGH EAVE FLASHING  
(WS-219)

\* DENOTES ANGLE

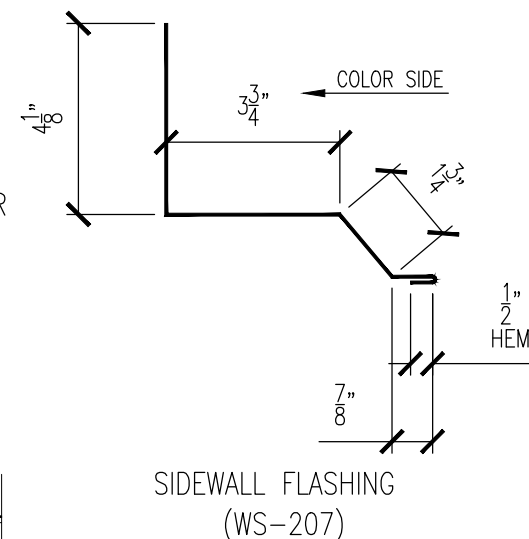
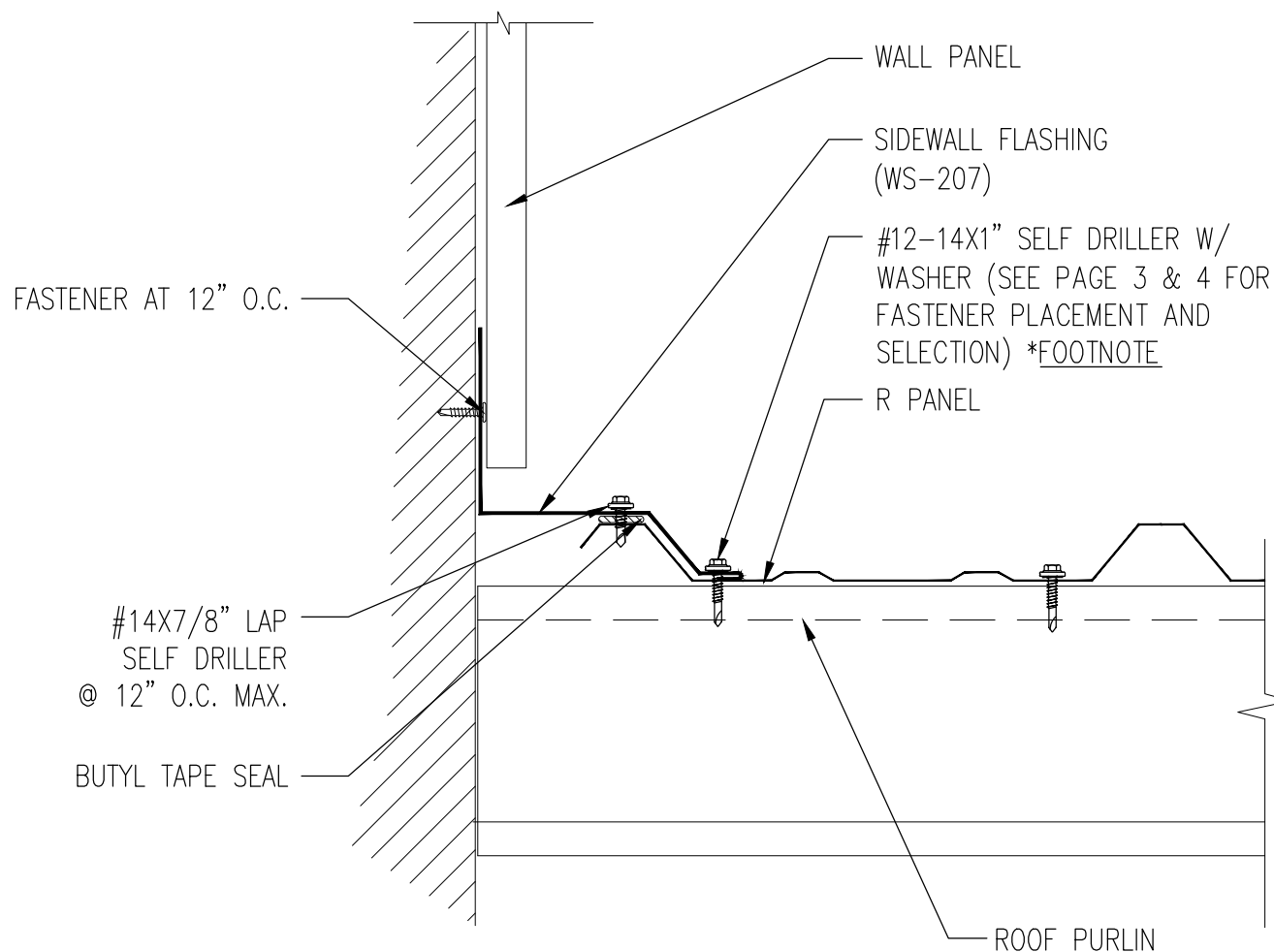
\* FOOTNOTE:  
FASTENER TYPE OVER PLYWOOD  
TO BE #9X\_ WOOD SCREW  
FASTENER

GAUGE: _____	COLOR: _____
BREAKS: _____	FINISH: _____
LENGTH: _____	STRETCH OUT: _____
MATERIAL: _____	
PEAK FLASHING/ HIGH EAVE DETAIL	B 01-14-13
	A 06-18-12
PANEL TYPE: R-Panel	REV: DATE:
	DETAIL #: WSD-PK3

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\* FOOTNOTE:  
FASTENER TYPE OVER PLYWOOD  
TO BE #9X\_ WOOD SCREW  
FASTENER

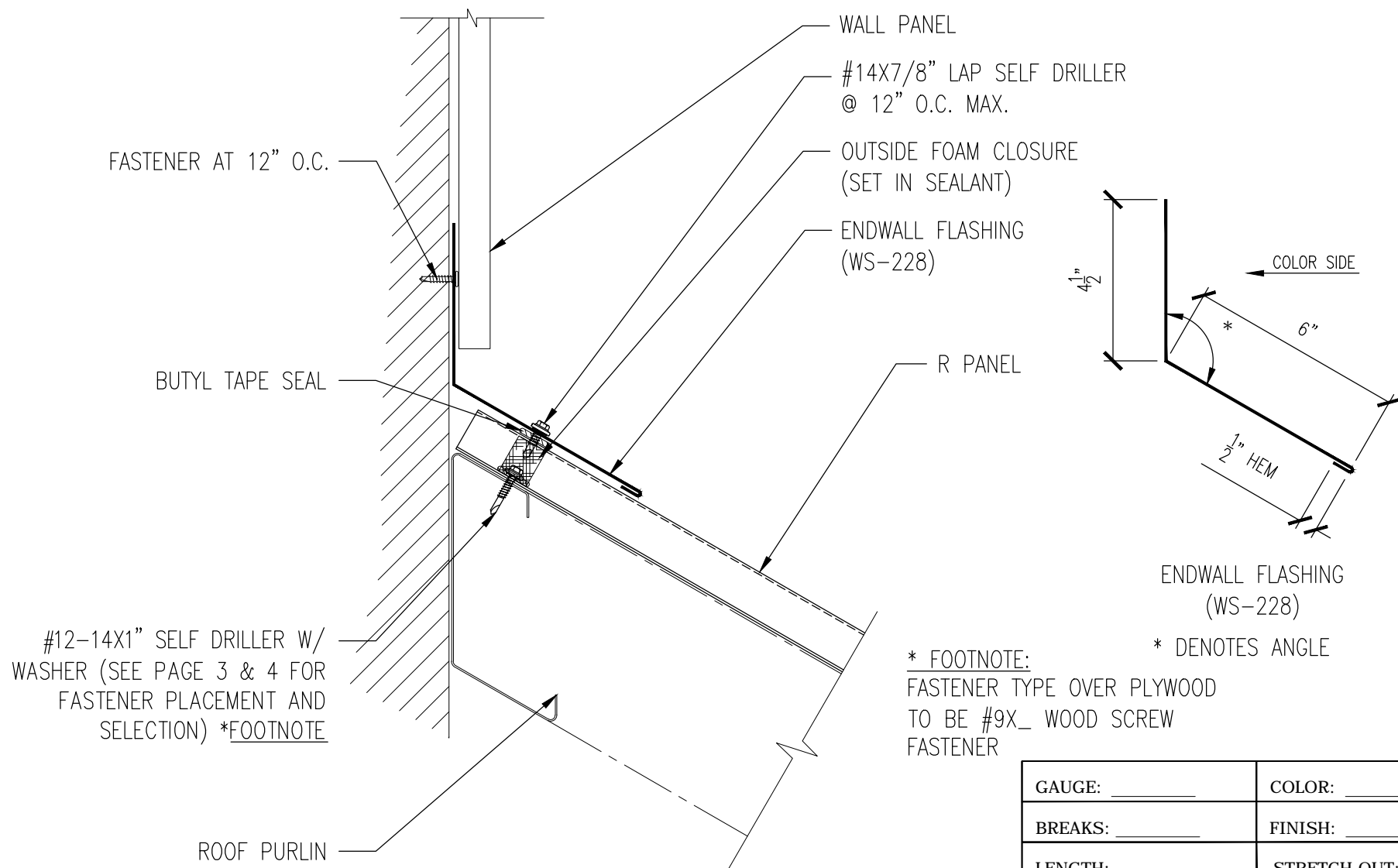
GAUGE: _____	COLOR: _____
BREAKS: _____	FINISH: _____
LENGTH: _____	STRETCH OUT: _____
MATERIAL: _____	

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PANEL TYPE: <b>R-Panel</b>	<b>SIDEWALL FLASHING DETAIL</b>	
	B	01-14-13
	A	06-18-12
	REV:	DATE:
DETAIL #:		<b>WSD-SW4</b>

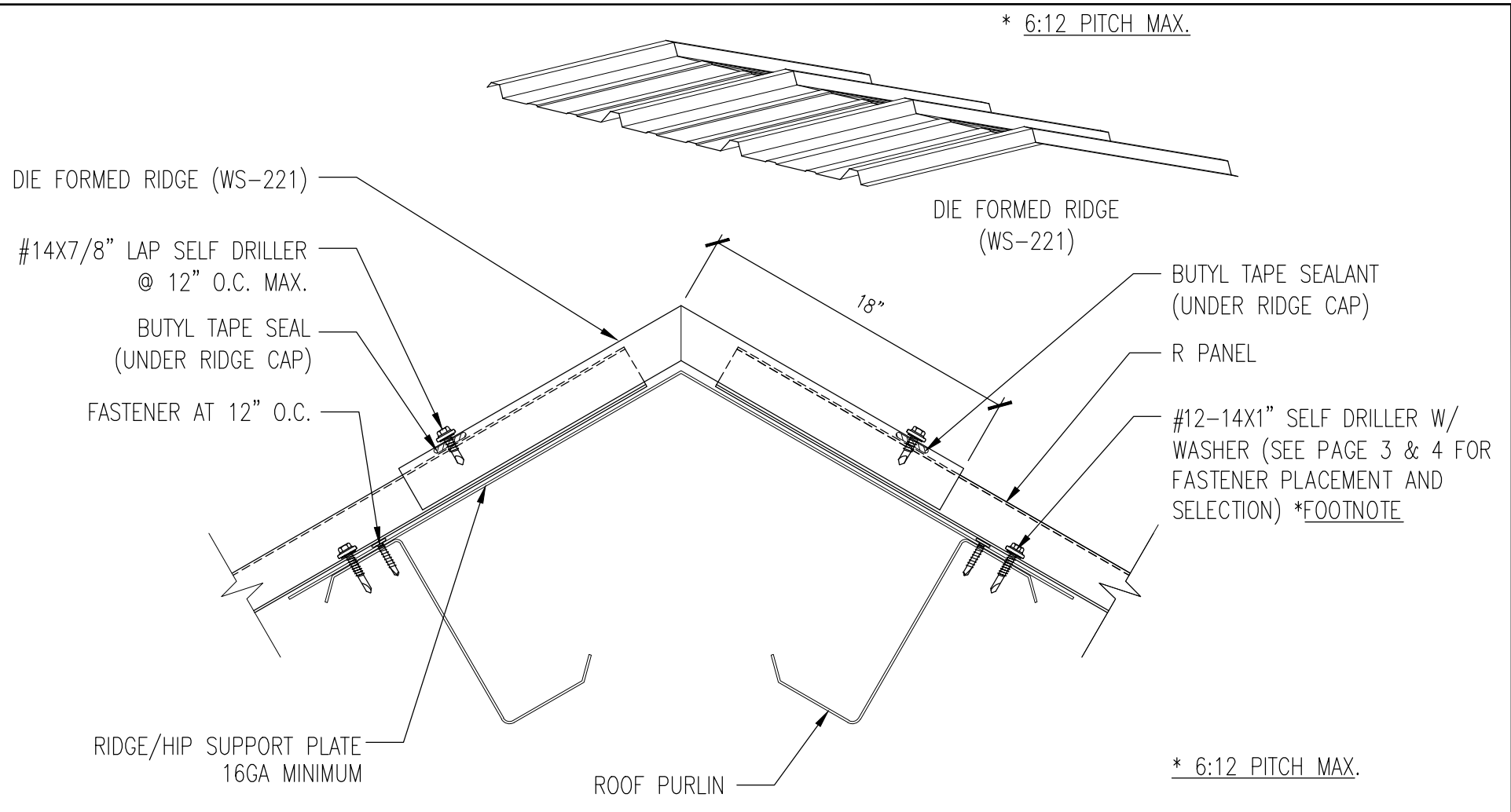


GAUGE: _____	COLOR: _____
BREAKS: _____	FINISH: _____
LENGTH: _____	STRETCH OUT: _____
MATERIAL: _____	
ENDWALL FLASHING DETAIL	B 01-14-13
	A 06-18-12
PANEL TYPE:  R-Panel	REV: DATE:
	DETAIL #: WSD-EW5

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\* FOOTNOTE:  
FASTENER TYPE OVER PLYWOOD  
TO BE #9X\_ WOOD SCREW  
FASTENER

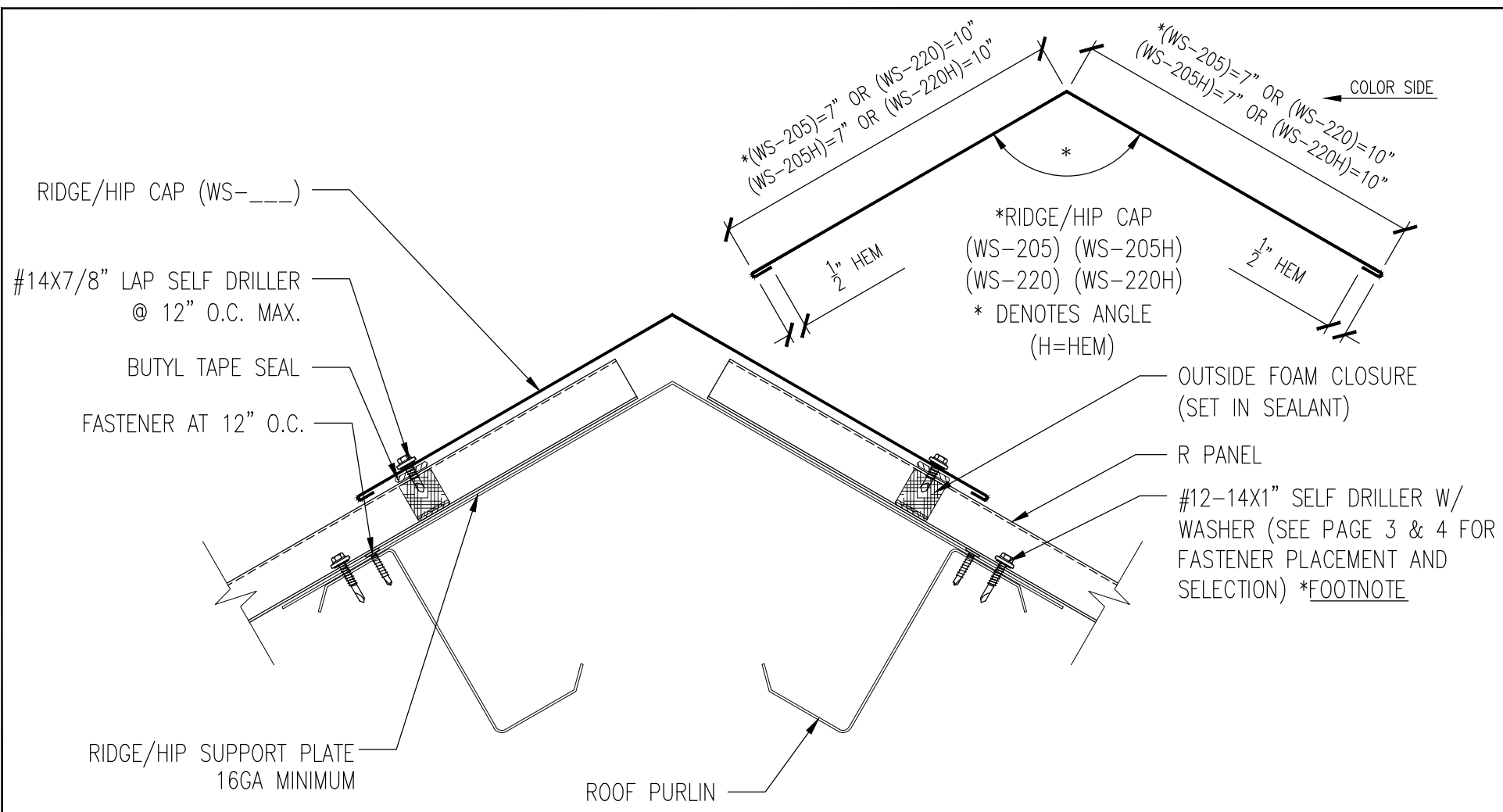
GAUGE: _____	COLOR: _____
BREAKS: _____	FINISH: _____
LENGTH: _____	STRETCH OUT: _____
MATERIAL: _____	

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FORMED RIDGE DETAIL	B	01-14-13
	A	06-18-12
PANEL TYPE:  R-Panel	REV:	DATE:
	DETAIL #: WSD-FR6	



\* FOOTNOTE:  
FASTENER TYPE OVER PLYWOOD  
TO BE #9X\_ WOOD SCREW  
FASTENER

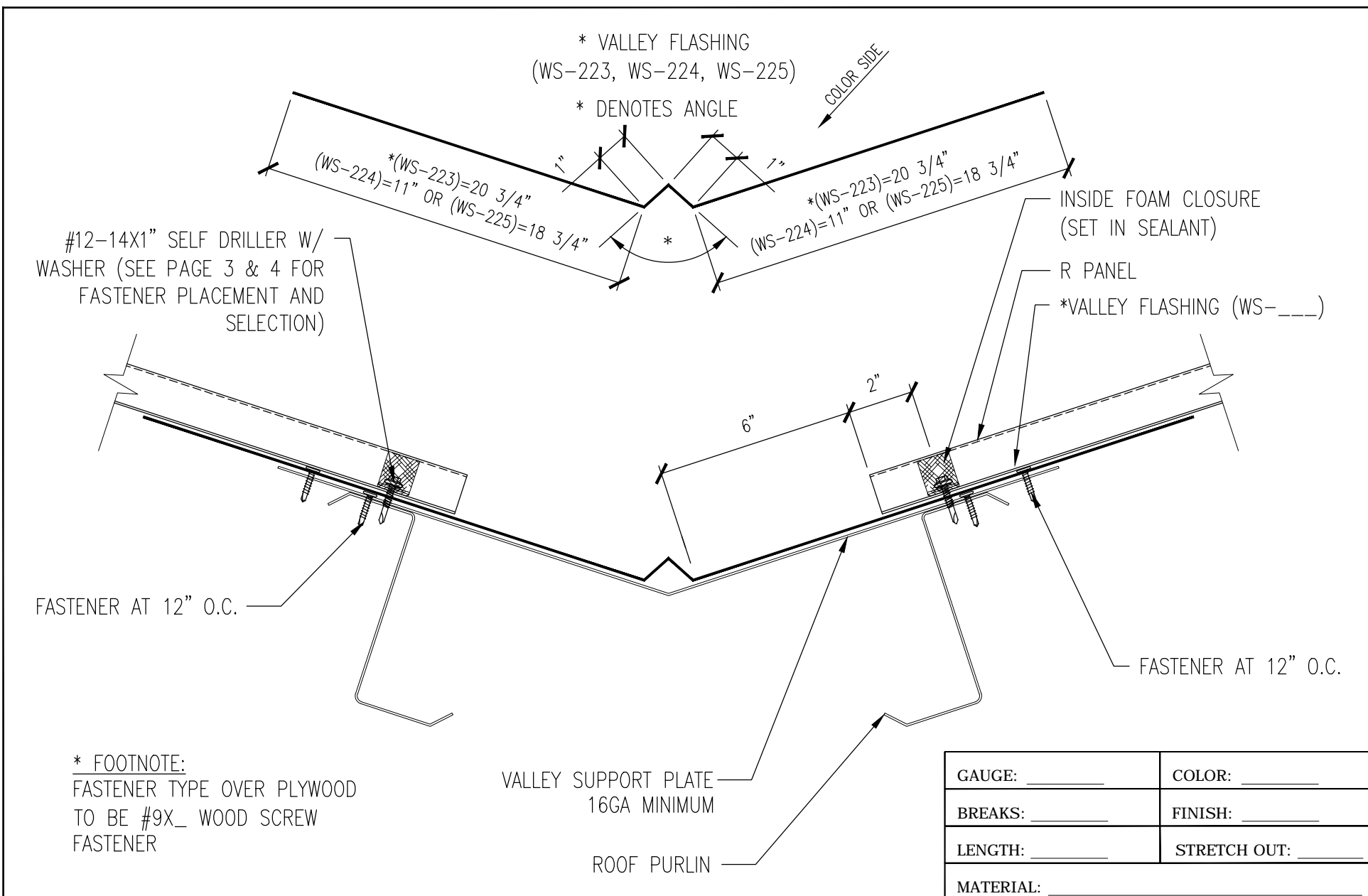
GAUGE: _____	COLOR: _____
BREAKS: _____	FINISH: _____
LENGTH: _____	STRETCH OUT: _____
MATERIAL: _____	
RIDGE/HIP CAP DETAIL	B 01-14-13
	A 06-18-12
PANEL TYPE:  R-Panel	REV: DATE:
	DETAIL #: WSD-RH6

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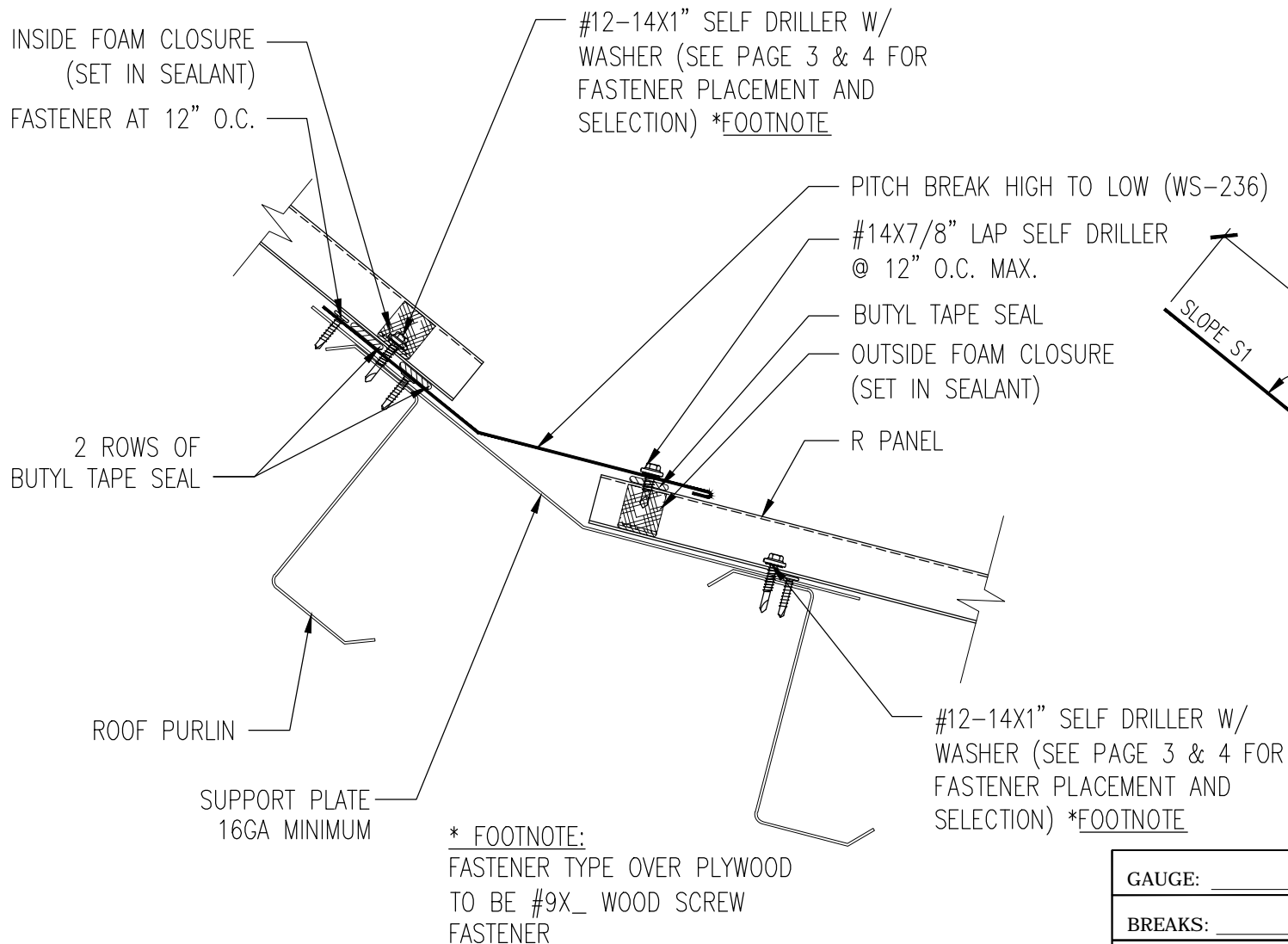
GAUGE: _____	COLOR: _____
BREAKS: _____	FINISH: _____
LENGTH: _____	STRETCH OUT: _____
MATERIAL: _____	

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VALLEY DETAIL	B	01-14-13
	A	06-18-12
	REV:	DATE:
PANEL TYPE: R-Panel	DETAIL #: WSD-V7	



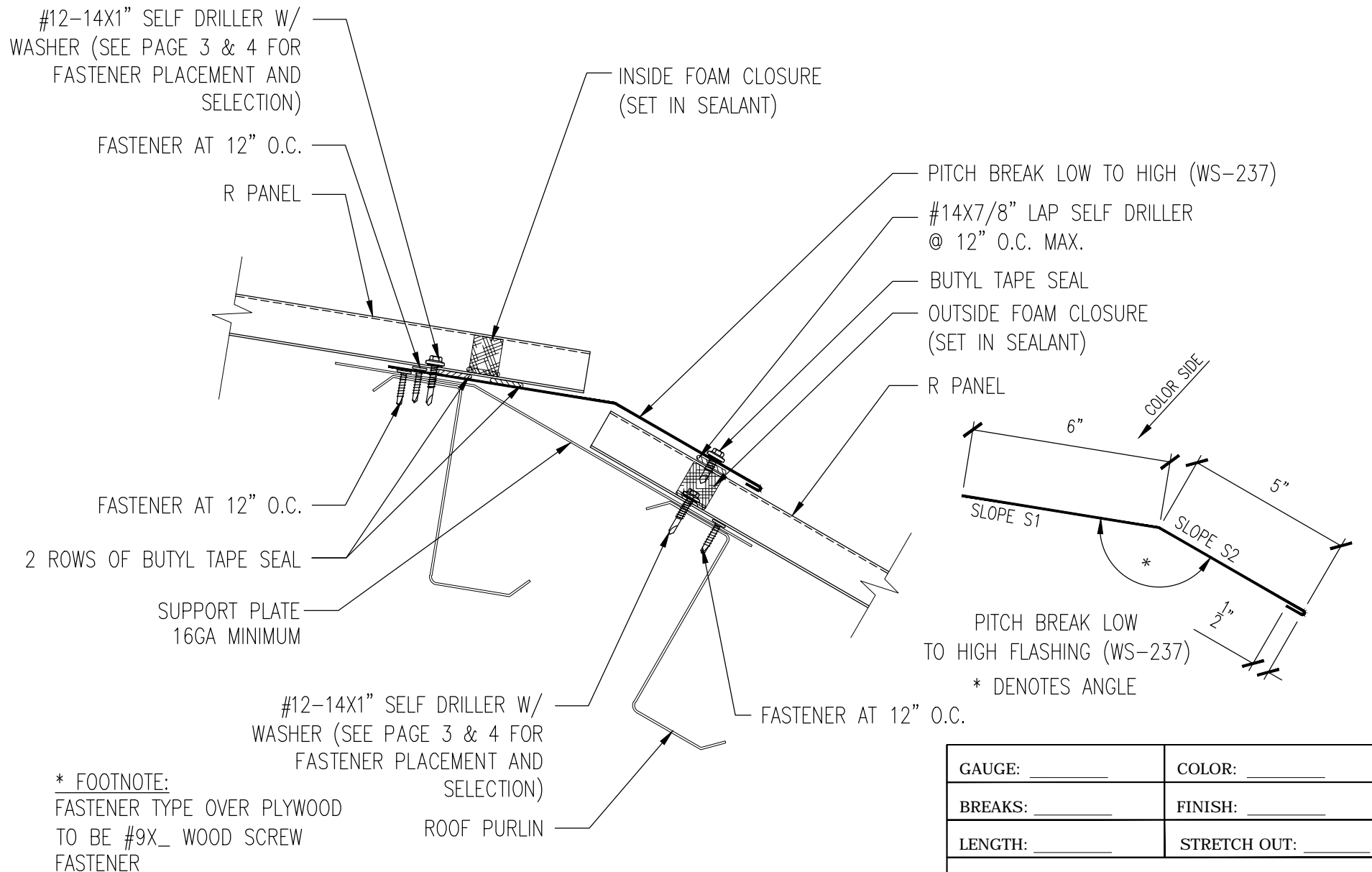
GAUGE: _____	COLOR: _____
BREAKS: _____	FINISH: _____
LENGTH: _____	STRETCH OUT: _____
MATERIAL: _____	

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PITCH BREAK HIGH TO LOW DETAIL	B	01-14-13
	A	06-18-12
	REV:	DATE:
PANEL TYPE:	DETAIL #:	
R-Panel	WSD-PB8	



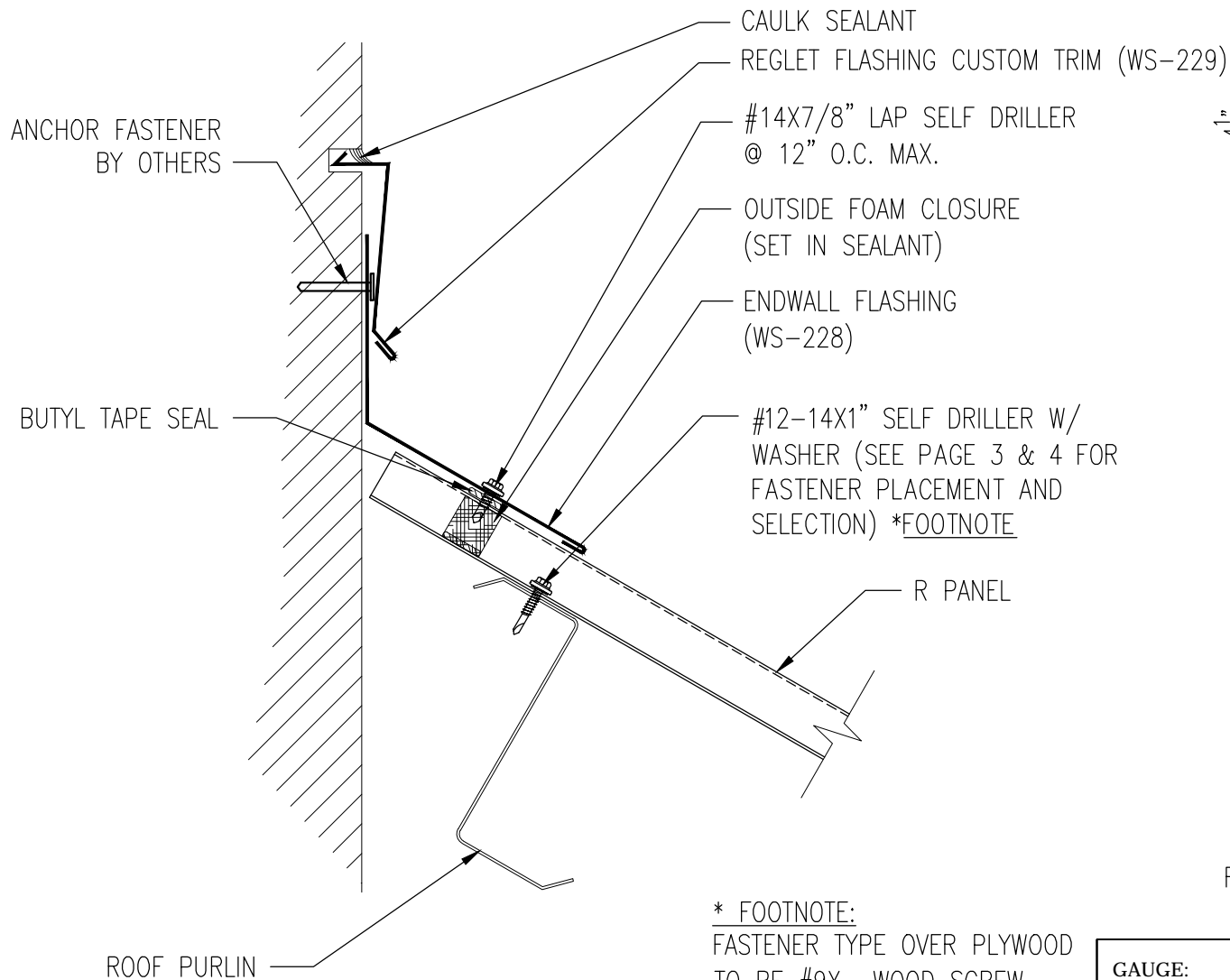
GAUGE: _____	COLOR: _____
BREAKS: _____	FINISH: _____
LENGTH: _____	STRETCH OUT: _____
MATERIAL: _____	

## Western States Metal Roofing

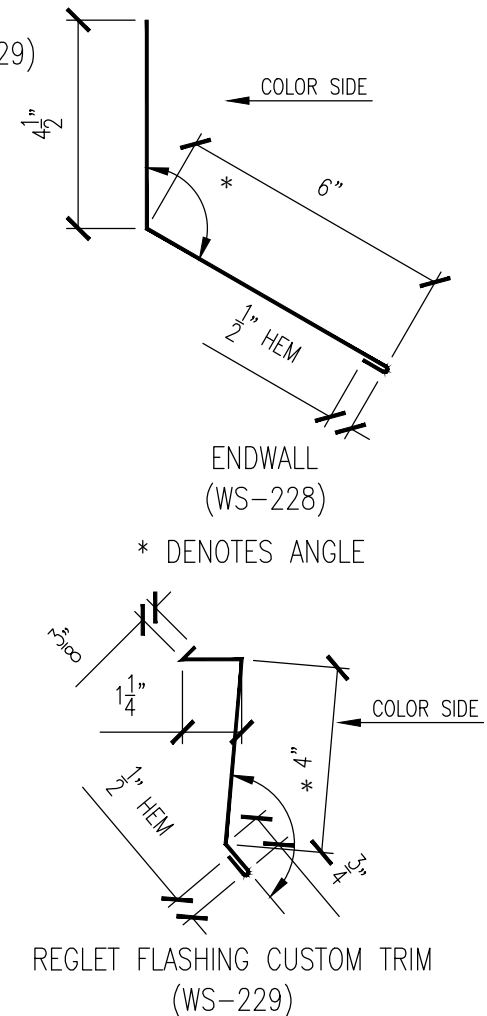
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PITCH BREAK LOW TO HIGH DETAIL	B	01-14-13
	A	06-18-12
PANEL TYPE:  R-Panel	REV:	DATE:
	DETAIL #:	WSD-PB9



\* FOOTNOTE:  
FASTENER TYPE OVER PLYWOOD  
TO BE #9X\_ WOOD SCREW  
FASTENER

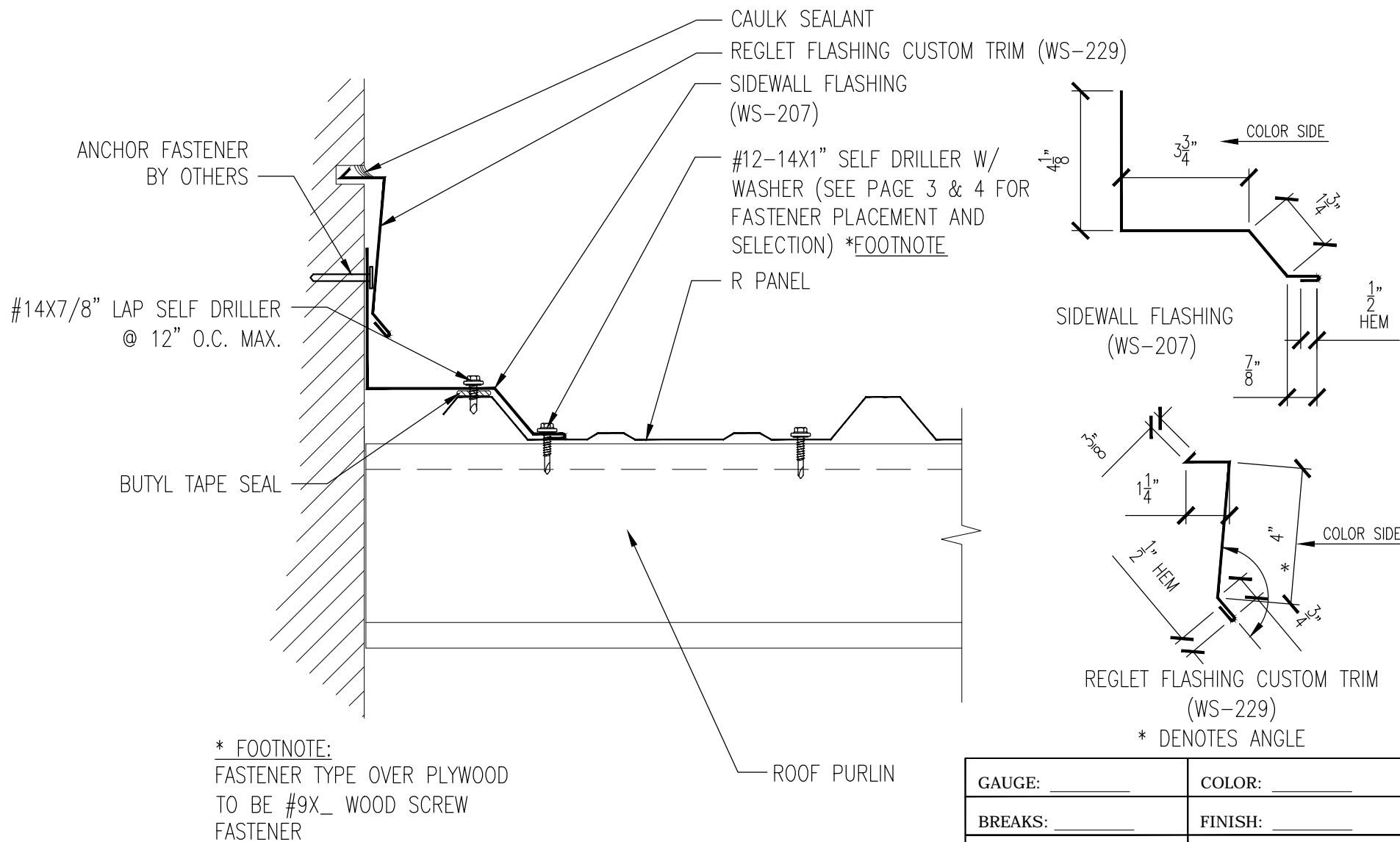


GAUGE: _____	COLOR: _____
BREAKS: _____	FINISH: _____
LENGTH: _____	STRETCH OUT: _____
MATERIAL: _____	
CHIMNEY FLASHING DETAILS	B 01-14-13
	A 06-18-12
	REV: DATE:
PANEL TYPE: R-Panel	DETAIL #: WSD-CF10

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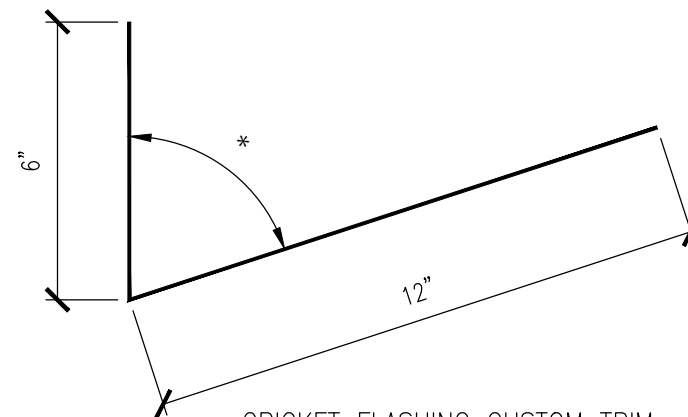
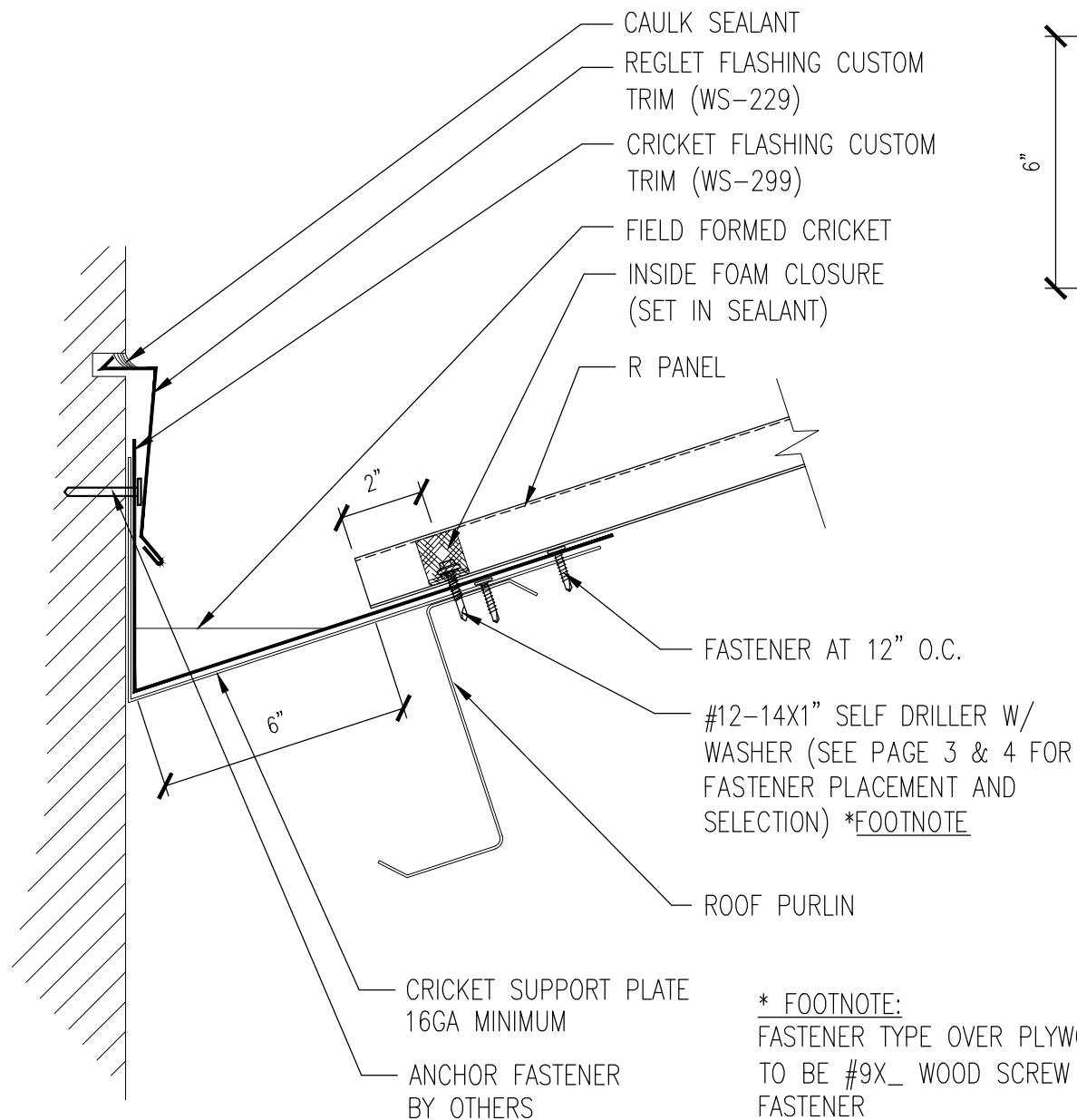


GAUGE: _____	COLOR: _____
BREAKS: _____	FINISH: _____
LENGTH: _____	STRETCH OUT: _____
MATERIAL: _____	
CHIMNEY FLASHING DETAILS	B 01-14-13
	A 06-18-12
PANEL TYPE:  R-Panel	REV: DATE:
	DETAIL #: WSD-CF11

## Western States Metal Roofing

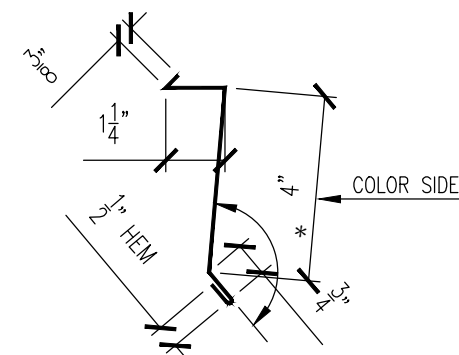
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CRICKET FLASHING CUSTOM TRIM  
(WS-299)

\* DENOTES ANGLE



REGLET FLASHING CUSTOM TRIM  
(WS-229)

\* DENOTES ANGLE

\* FOOTNOTE:  
FASTENER TYPE OVER PLYWOOD  
TO BE #9X\_ WOOD SCREW  
FASTENER

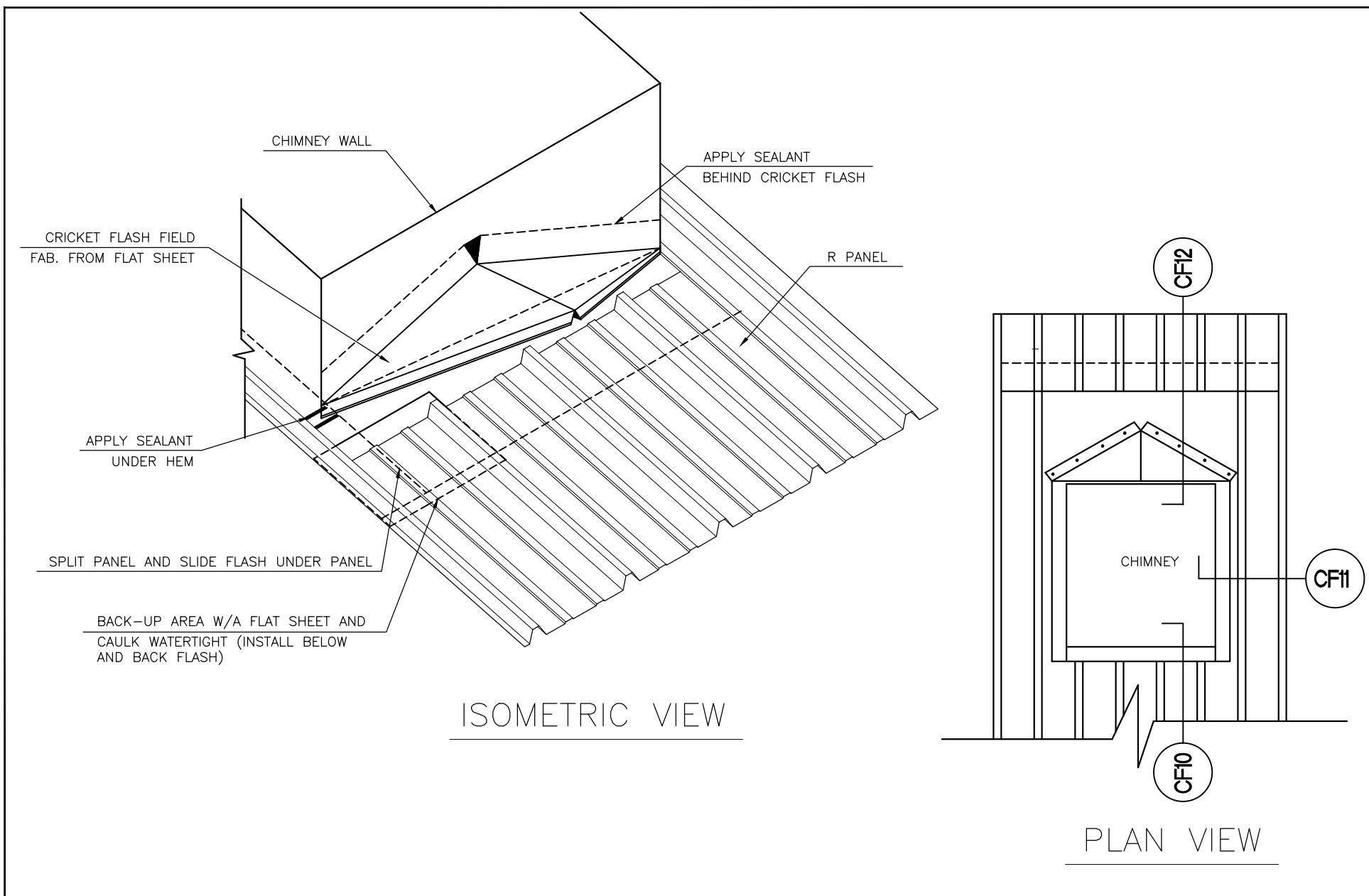
GAUGE: _____	COLOR: _____
BREAKS: _____	FINISH: _____
LENGTH: _____	STRETCH OUT: _____
MATERIAL: _____	

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CHIMNEY FLASHING DETAILS	B	01-14-13
	A	06-18-12
	REV:	DATE:
	DETAIL #: WSD-CF12	
PANEL TYPE: R-Panel		



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### ISOMETRIC CRICKET DETAIL @ CHIMNEY

PANEL TYPE:

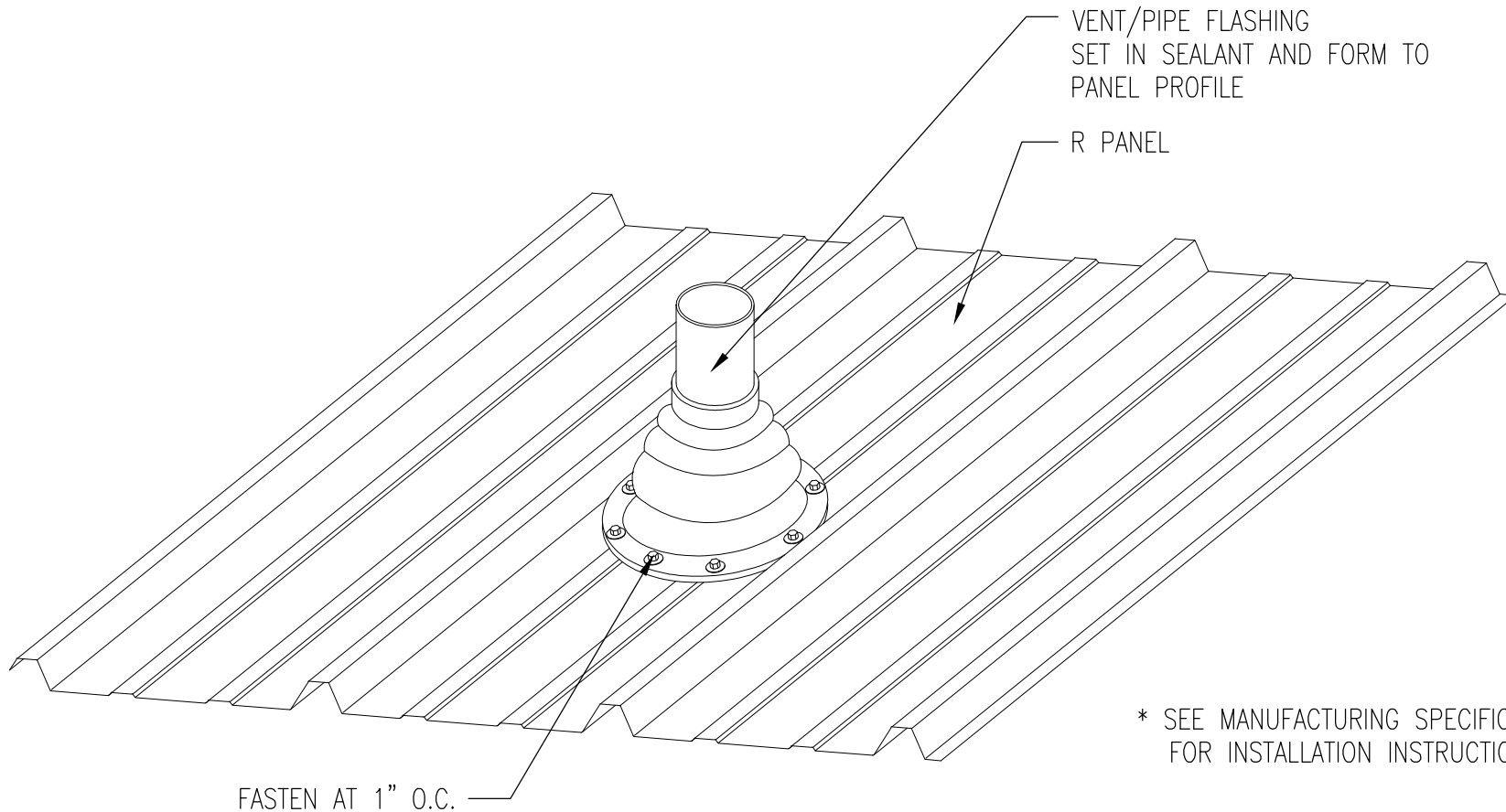
R-Panel

B 01-14-13

A 06-18-12

REV: DATE:

DETAIL #:  
WSD-CF13



\* SEE MANUFACTURING SPECIFICATIONS  
FOR INSTALLATION INSTRUCTIONS

GAUGE: _____	COLOR: _____
BREAKS: _____	FINISH: _____
LENGTH: _____	STRETCH OUT: _____
MATERIAL: _____	

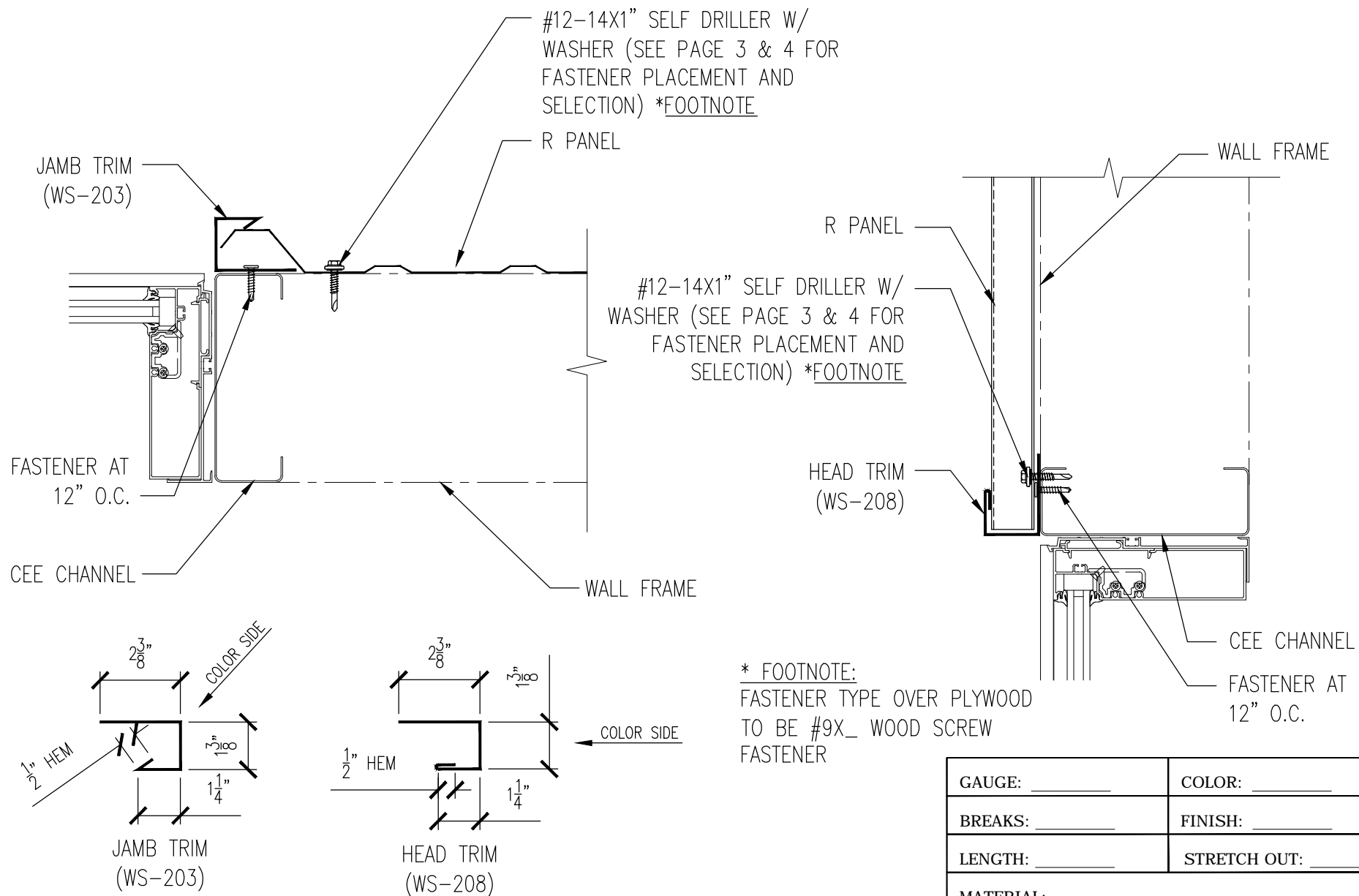
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PIPE FLASHING DETAIL	B	01-14-13
	A	06-18-12
PANEL TYPE:  R-Panel	REV:	DATE:
	DETAIL #: WSD-PF14	



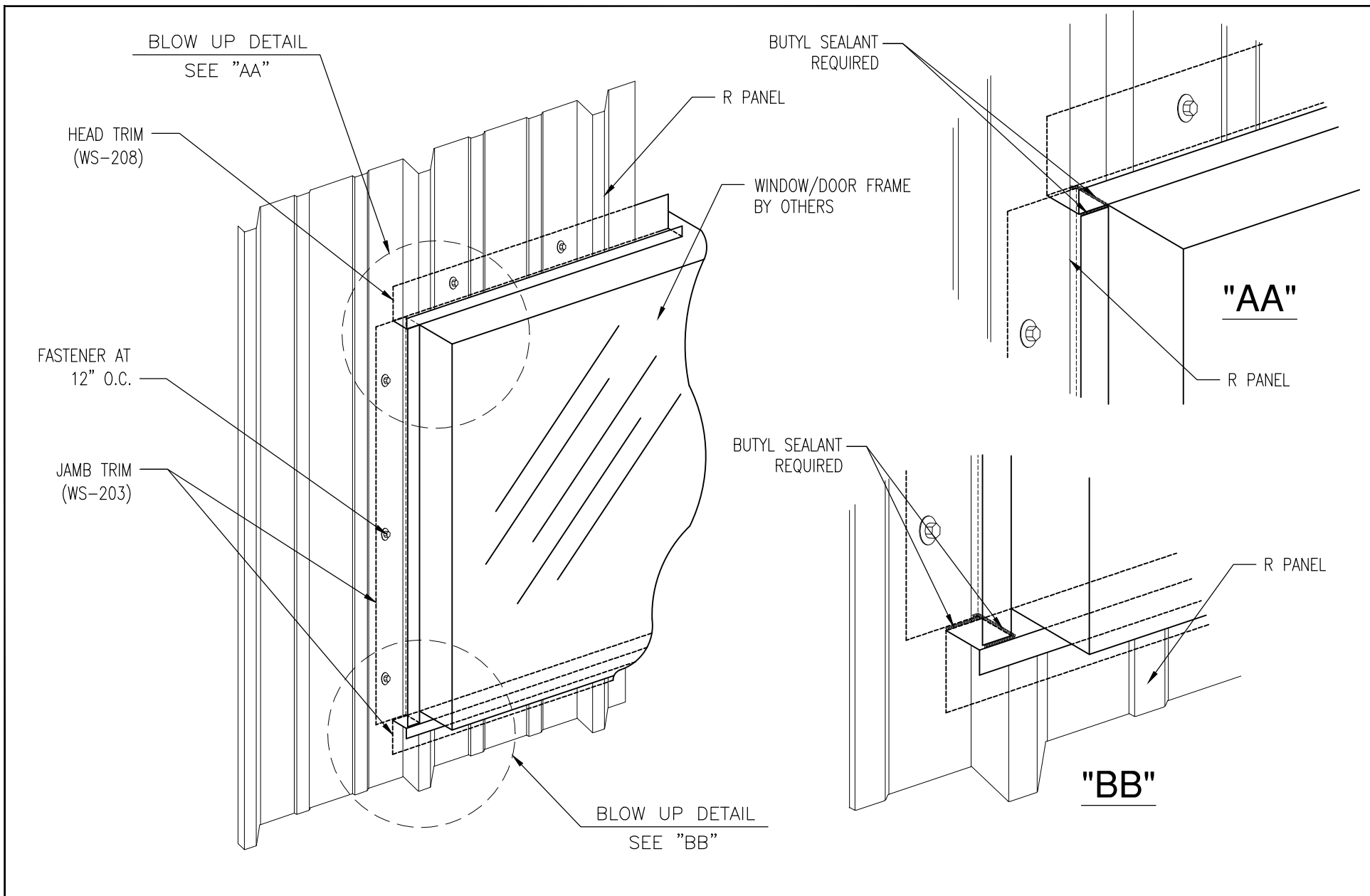


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GAUGE: _____	COLOR: _____	
BREAKS: _____	FINISH: _____	
LENGTH: _____	STRETCH OUT: _____	
MATERIAL: _____		
HEAD AND JAMB DETAILS		
	B	01-14-13
	A	06-18-12
	REV:	DATE:
PANEL TYPE:	DETAIL #:	
R-Panel	WSD-W15	



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### ISOMETRIC WALL DETAIL

PANEL TYPE:

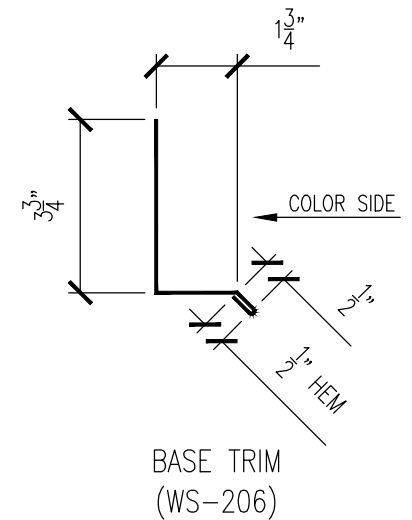
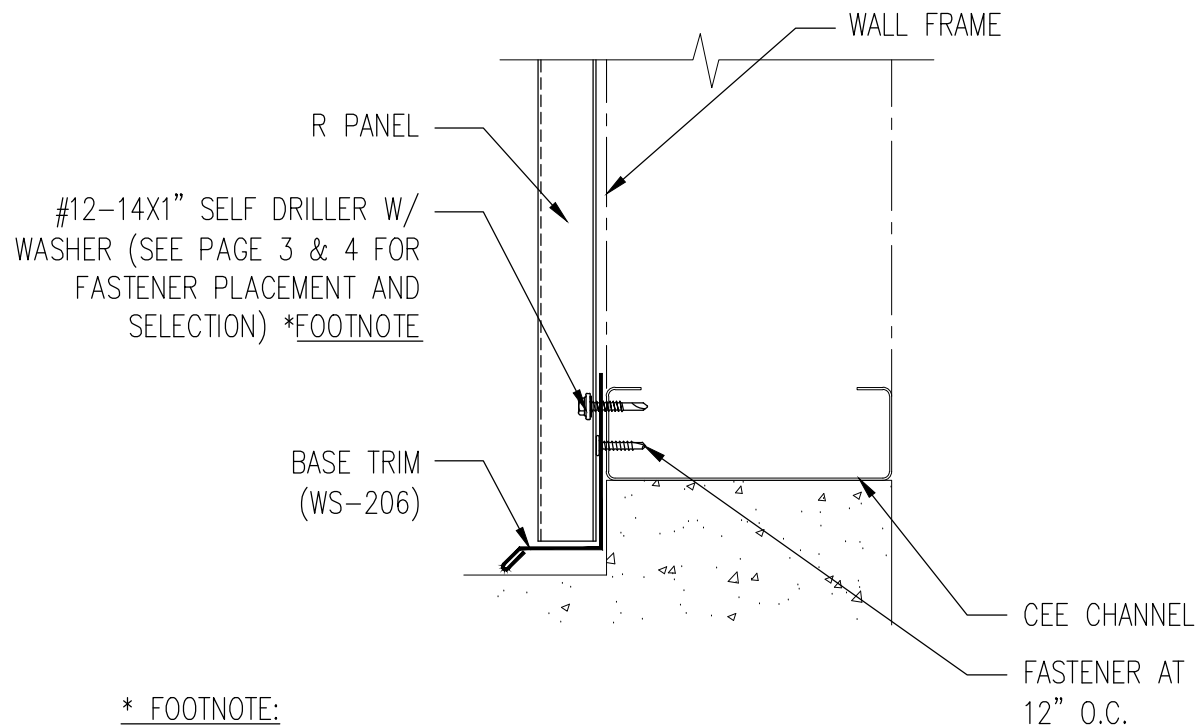
R-Panel

B 01-14-13

A 06-18-12

REV: DATE:

DETAIL #:  
WSD-W16



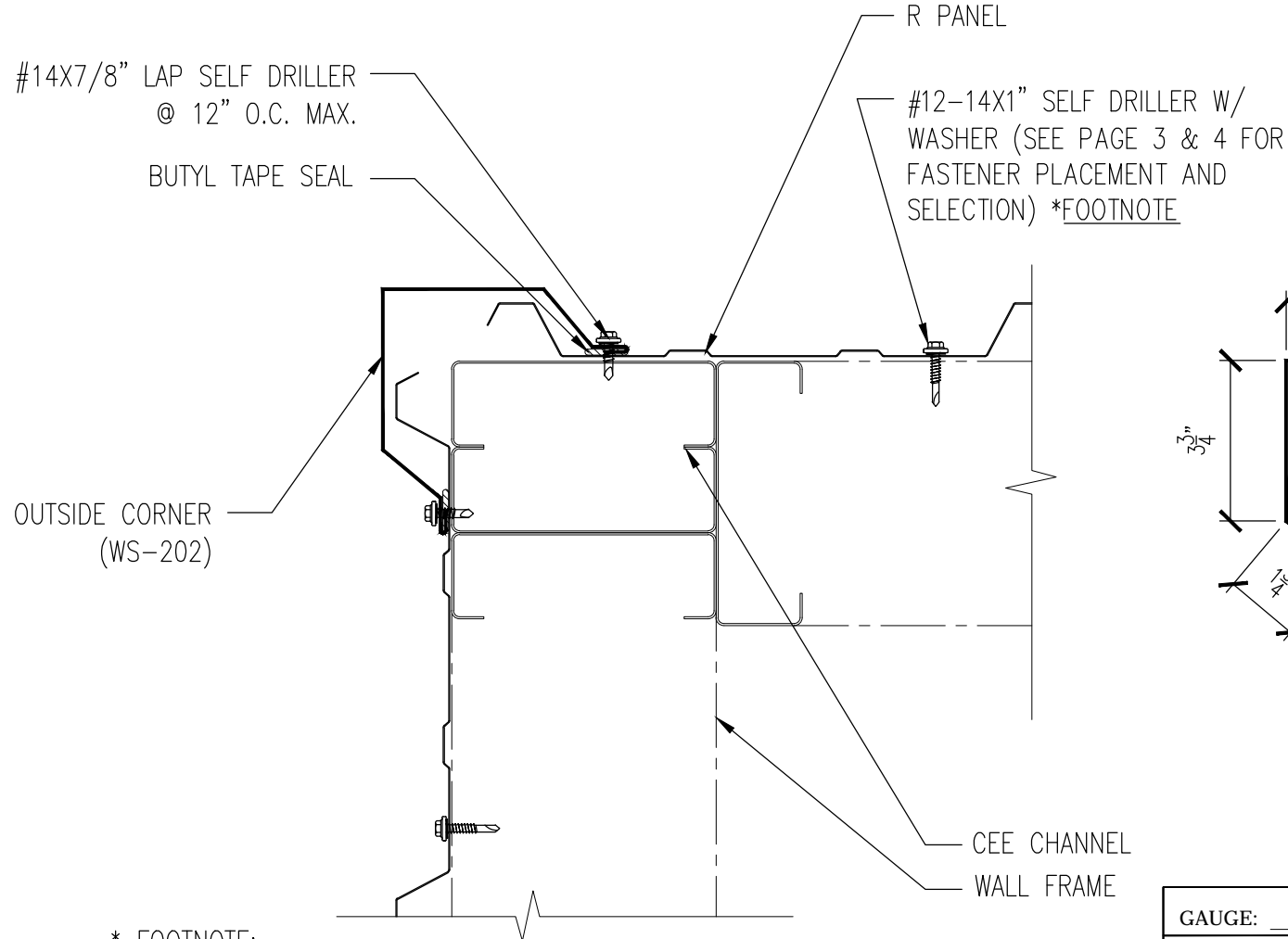
GAUGE: _____	COLOR: _____
BREAKS: _____	FINISH: _____
LENGTH: _____	STRETCH OUT: _____
MATERIAL: _____	

## Western States Metal Roofing

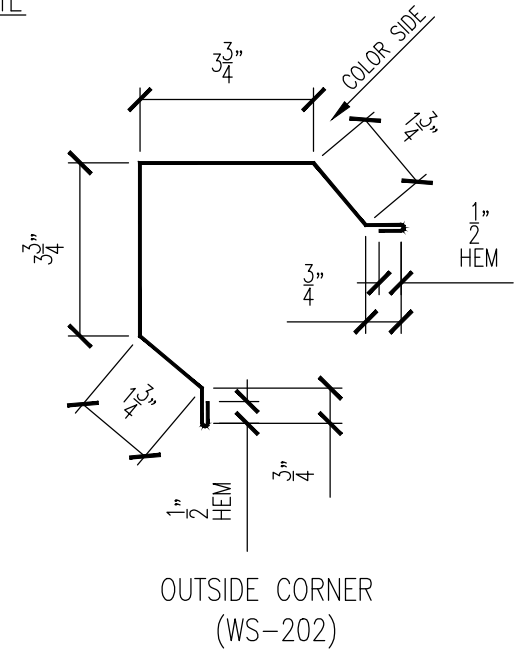
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BASE DETAIL	B	01-14-13
	A	06-18-12
	REV:	DATE:
PANEL TYPE: R-Panel	DETAIL #: WSD-W17	



\* FOOTNOTE:  
FASTENER TYPE OVER PLYWOOD  
TO BE #9X\_ WOOD SCREW  
FASTENER



GAUGE: _____	COLOR: _____
BREAKS: _____	FINISH: _____
LENGTH: _____	STRETCH OUT: _____
MATERIAL: _____	
OUTSIDE CORNER WALL DETAIL	B 01-14-13
	A 06-18-12
PANEL TYPE: R-Panel	REV: DATE:
	DETAIL #: WSD-W18

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# NOTES:

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NOTES

PANEL TYPE:

R-Panel

B	01-14-13
A	06-18-12
REV:	DATE:
DETAIL #: WSD-MN19	

## CUSTOM TRIM

GAUGE: _____	COLOR: _____	
BREAKS: _____	FINISH: _____	
LENGTH: _____	STRETCH OUT: _____	
MATERIAL: _____		
CUSTOM TRIM NAME: _____		
	B	01-14-13
	A	06-18-12
PANEL TYPE: <b>R-Panel</b>	REV:	DATE:
	DETAIL #: <b>WSD-CT20</b>	

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## Western States “R” Panel

Installation, Flashings & Shop Drawing Detail Guide

### Special Design Considerations

The details contained in this guide are proven industry details and are intended to be used as a design aid and installation guide. It does not depict all situations that may be encountered on all projects. Modifications are the responsibility of the designer/ owner/ installer.

Consideration should be given for Fit for Purpose, Building use, Climate conditions such as temperature, snow, wind, and moisture, Governing Building Codes, and Maintenance.

It is highly recommended that all trims and flashings be of the same material as the panels (metal, gauge, finish) to ensure long term performance and durability. Where possible, flashing edges should be hemmed to strengthen the edge and protect the cut edge from exposure.

### Acceptance

**Use of this manual is strictly voluntary.** Details that are provided are to be used as a guide only. Details may not be applicable for all situations. This guide provides one standard detail and WSDI accepts that other installation details may be needed and other details may exist. WSDI makes no guarantee as to the Weather Tightness of the system or details found within this guide. The information in this manual is believed to be correct and accurate at the time of printing. WSDI reserves the right to change details, discontinue products, change designs at any time without incurring obligation. It is best to consult your Design Engineer for recommendations.

### Underlayment

There are many types of underlayment's on the market today. All designed with a special purpose depending on the type of Metal and profile. Many different types of metal will require a different type of underlayment, such as A606-4 (Corten) which requires a High Temperature underlayment. It is best to consult your Design Engineer for recommendations.

### Valley and Snow Design

Valley design and dimension must be the proper width to accommodate high snow, rain, ice, and slope conditions. If possible, splices, penetrations, valleys, roof elevation changes, should be minimized in areas of high snow and ice accumulations. Details found in this manual may not pertain in areas of high snow and ice accumulations.

### Panel Coverage and Fastening

Normal panel width of “R” panel is 36”. However depending on the finish selected and the required coil feed, it may be necessary for WSDI to shorten the width of the panel. Please consult with your WSDI representative for details and fastening recommendations.

### Safety and Maintenance

Walking on and installing any roof is dangerous! Extreme care should always be used when walking on roofs. Safety should always be a top priority and approved fall protection and equipment as approved by OSHA should always be used.

No roof is immune to severe weather or is completely maintenance free. To keep your roof performing as it was designed; an inspection and comprehensive maintenance program should be implemented.

### References

For other installation techniques and details, The Sheet Metal and Air Conditioning Contractors National Association Inc. (SMACNA) and NRCA manuals are great resources for working with sheet metal.

### Technical Assistance

Contact your WSDI sales or technical representative for any additional information or assistance. To insure you have the latest information available, please inquire or visit our web sites at [www.metaldeck.com](http://www.metaldeck.com) or [Rustedroofing.com](http://Rustedroofing.com)





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