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1.75" SNAP LOCK WITH TRIM, FLASHINGS AND DETAILS



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Notes to Designers and Installers:

The details provided in this guide have been established as proven industry standards, intended to serve as both design aids and installation guidelines. However, it is important to recognize that these details may not cover every possible situation encountered in various projects. As such, any necessary modifications should be the responsibility of the designer, owner, or installer.

When utilizing this guide, thoughtful consideration must be given to the purpose of the project, the building's intended use, and the prevailing climate conditions, including temperature, snow, wind, and moisture. Additionally, adherence to governing building codes and the implementation of proper maintenance practices are paramount.

For enhanced long-term performance and durability, we strongly recommend using trims and flashings made from the same material as the panels (metal, gauge, finish). Moreover, whenever feasible, reinforcing the flashing edges through hemming will provide added strength and protect the cut edges from exposure.

By taking these considerations into account, you can ensure the success and longevity of your installation. The proper implementation of these guidelines will contribute to a resilient and aesthetically pleasing outcome for your project.

#### **Technical Assistance:**

For any additional information or assistance, please feel free to contact your FABTECH sales or technical representative. They are readily available to provide you with the support and guidance you may need to ensure the success of your project. Don't hesitate to reach out to them for any inquiries or help you may require along the way.



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Framing and Substrates:

When working with Snap Lock panels, you have the flexibility to use them over various substrates, including Steel Decking, open purlins, spaced sheathing, and wood decking, such as plywood. While most details in this guide depict panels attached to Solid Decking, it's essential to recognize their suitability for different substrate types. The versatility of Snap Lock panels opens up a wide range of applications, allowing you to choose the most suitable substrate for your project needs. Whether you opt for Steel Decking, open purlins, spaced sheathing, or wood decking, these panels provide reliable performance and enhance the overall appearance of your installation. To ensure a successful outcome, always follow appropriate techniques tailored to the specific substrate selected for your project.

Note on Underlayment:

While not every condition necessitates the use of underlayment, it is crucial to acknowledge that metal roofing is susceptible to condensation. Therefore, we strongly recommend using an appropriate roofing underlayment on all wood substrates during installation to safeguard the structure.

For enhanced protection against rain and snow, it is advisable to utilize rubberized ice and water shield on eaves, valleys, and areas of roof penetrations. By following these precautions, you can ensure the longevity and weather resistance of your metal roofing system, providing a reliable and durable solution for your project needs.

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#### **Slope Requirements:**

For optimal performance, it is advisable to maintain a minimum slope requirement of 3:12 when using FABTECH panels on all structures. This recommended slope will help ensure proper water drainage and overall functionality of the roofing system, providing you with a durable and reliable solution for your project.

#### Valley and Snow Design:

To effectively handle high snow, rain, ice, and slope conditions, it is essential to ensure that valley design and dimensions are appropriately sized. In areas prone to significant snow and ice accumulations, it is advisable to minimize splices, penetrations, and roof elevation changes, particularly in valleys. By adopting these practices, you can enhance the performance and longevity of your roofing system, providing added protection against challenging weather conditions.

#### References:

If you seek additional installation techniques and details, The Sheet Metal and Air Conditioning Contractors National Association Inc. (SMACNA) and NRCA manuals serve as excellent resources for working with sheet metal. These reputable references provide valuable information and insights that can enhance your knowledge and expertise in sheet metal work. Consulting these manuals can be highly beneficial in ensuring the success and quality of your projects.





#### Oil Canning:

Oil canning is a common occurrence with flat metal surfaces, resulting in waviness. This effect is influenced by factors such as steel mill tolerances, forming processes, variations in surface structures, and steel hardness. In the roll forming process, specific measures are taken, such as profile design, steel gauge, and corrective leveling, to minimize the impact of oil canning.

It is essential to recognize that oil canning is a characteristic inherent to steel and cannot be completely eliminated. However, it should not be a reason for rejecting the panels. Instead, proper measures during the installation and the use of recommended techniques can effectively manage and reduce the appearance of oil canning. By understanding and addressing this characteristic, you can ensure a successful installation and achieve the desired results for your metal panels.

#### Job Site Storage:

During the waiting period on the job site, proper storage of panels, trim crates, and flat sheets is crucial to prevent moisture-related issues. To facilitate proper moisture runoff, the storage area should be sloped, and one end should be elevated to avoid water ponding on the metal surface. When using tarps for protection, it's important to ensure adequate ventilation to prevent condensation buildup. Moisture or trapped condensation within a bundle can lead to the development of white rust on the sheeting, which should be avoided to maintain the integrity and appearance of the materials.

By following these storage guidelines, you can safeguard against potential damage and ensure that your metal components remain in optimal condition for a successful installation.

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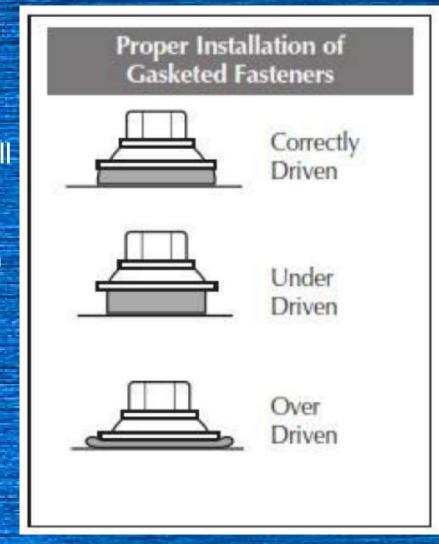
### **Fastener Selection**

**Installer Guidelines:** 

As installers, there are several important points to consider for a successful project:

- 1. Fastener Selection: Remember that the choice of fasteners will vary depending on the type and thickness of the substrate you are working with. Make sure to select appropriate fasteners to ensure a secure installation.
- 2. Clip Spacing Design: Design calculations for clip spacing should be left to the expertise of a design engineer. Their input will ensure proper distances and positions for structural integrity.
- 3. Weather Tight Installation: For a weather-tight installation, always opt for Butyl tape mastic, Butyl sealants, and Curing Sealants. These materials provide excellent protection against weather elements.
- 4. Mind the Metals: Avoid installing panels and flashings in contact with dissimilar metals to prevent corrosion and potential damage.
- 5. Compatible Accessories: Use only the flashings and accessories specifically designed for use with the chosen panel. This guarantees compatibility and maintains performance and appearance.
- 6. Secure Panel Clip Attachment: Ensure the panel clip attachment screws are sufficiently long to fully penetrate through the roof deck substrate or solid lumber, at least one inch. A secure attachment is crucial for stability.
- 7. Protect Trim Fasteners: Exposed trim fasteners should have sealing washers and a protective coating to guard against corrosion, maintaining both performance and aesthetics.
- 8. Proper Screw Installation: To achieve optimal holding strength and a proper seal, take care to drive screws correctly. Refer to the provided diagram for guidance.
- 9. Recommended Drill Speed: The recommended drill speed for screw installation is 2000rpm. Be mindful not to set the drill speed improperly, as it could lead to snapping of the screw heads.
- 10. Pre-Drilling for Heavy Gauge Metals: When working with heavy gauge metals, pre-drilling of screw holes may be necessary to facilitate installation and prevent potential damage

By following these guidelines, you can ensure a smooth and successful installation, creating durable and reliable structures.





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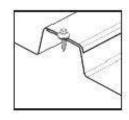
#### **EP FABTECH - SSQ675 Panel**

Installation, Flashings & Shop Drawing Detail Guide

#### **Fastener Selection**

Description Application

14 x 7/8" Lap Self tap 14 x7/8 Lap Stainless Used to attach Trims . Stainless to be used with A606-4 Steel





#10-12 x1" Pancake head Wood #10-12 x 1" SD PH Self Driller Steel Used to attach Panel clips.
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.



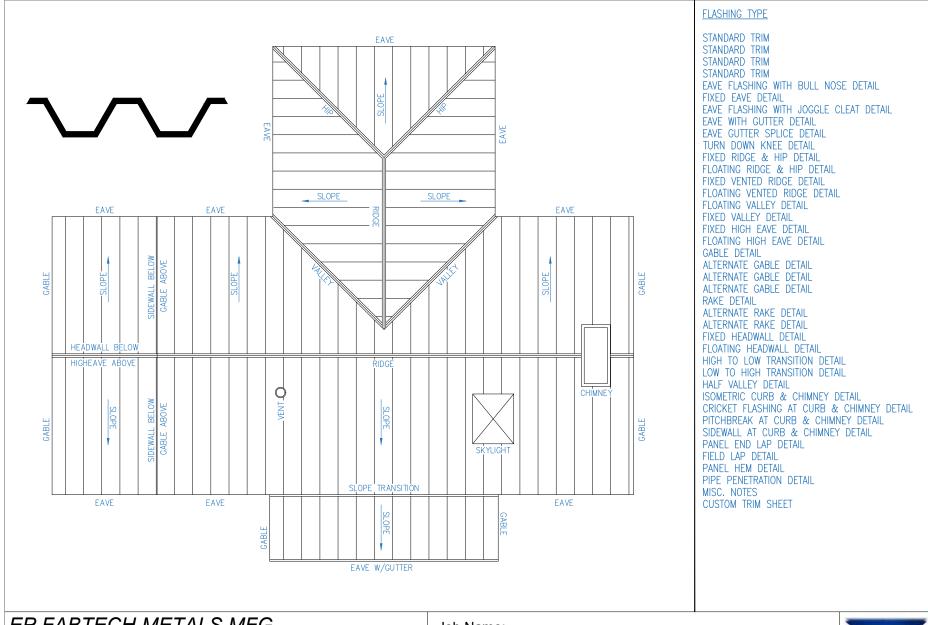
Stainless Screws #10 x1 x1/4" Wood Drillers #10 x 1.5 x ¼" #10 x 2" x ¼"

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



• The table above shows the panel Fasteners provided by EP FABTECH. Special order screws are available.

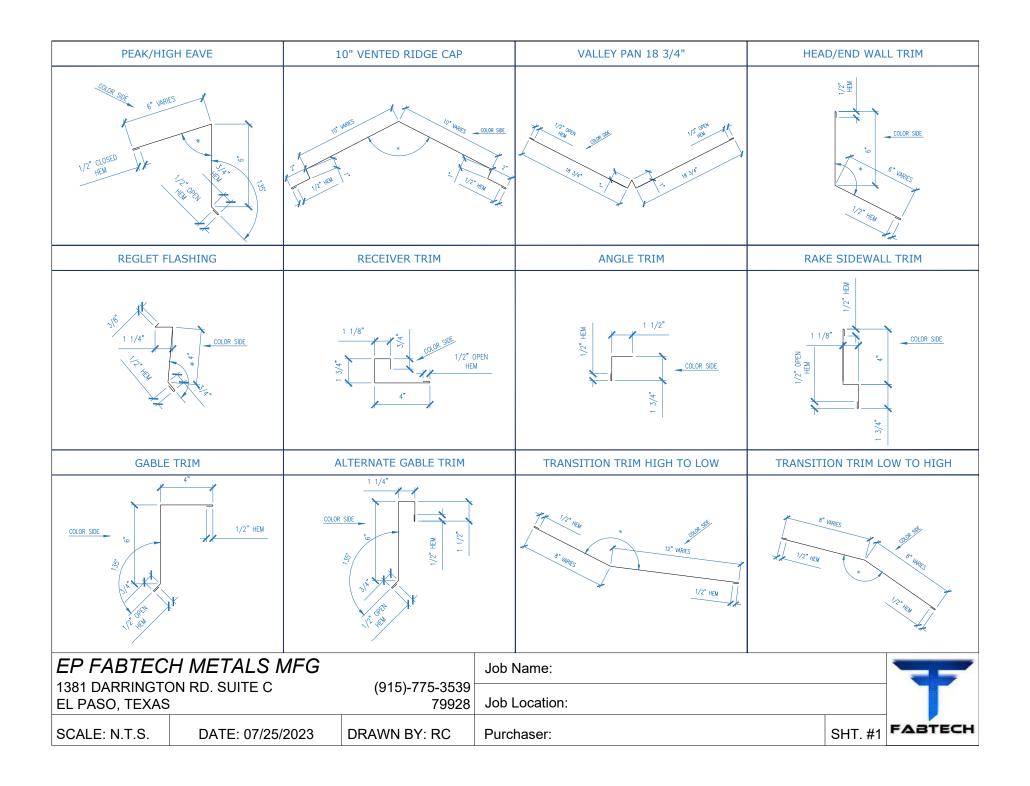
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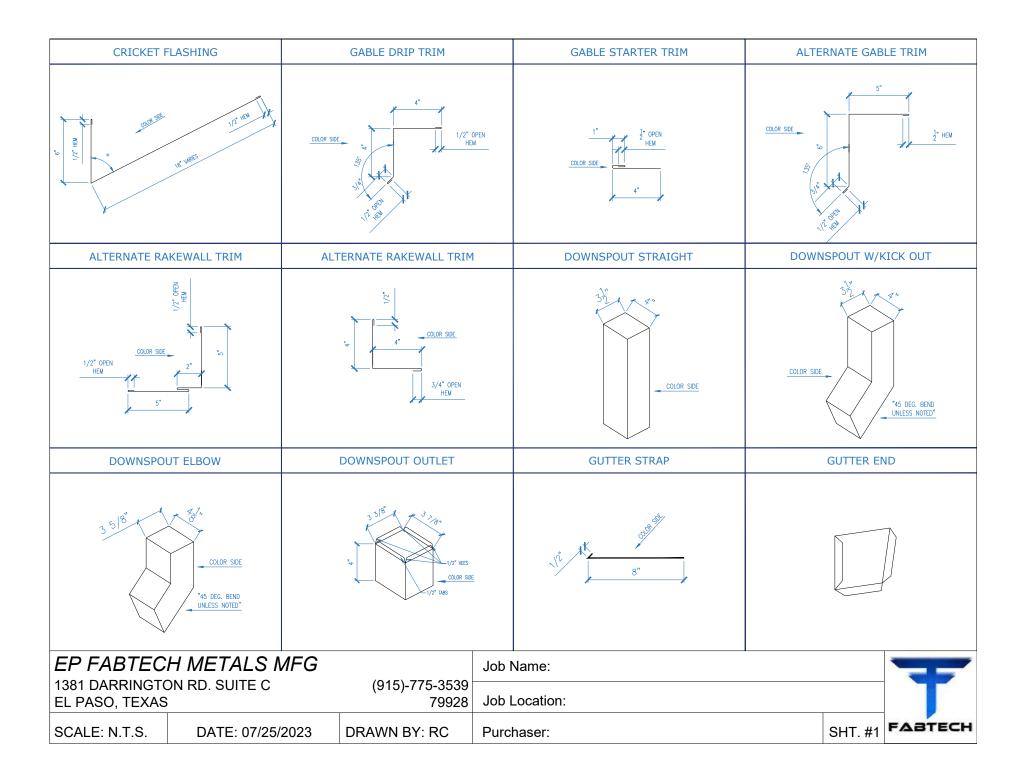


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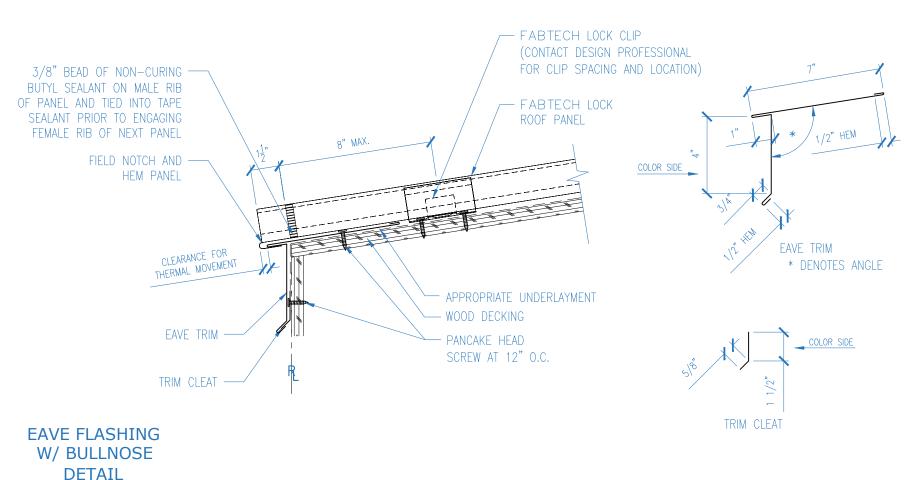
TRIM CL	EAT	BULL	NOSE DRIP/ EAVE TRIM		JOGGLE CLEAT	STA	ANDARD EAVE TRIM
Slo industrial	COLOR SIDE	6:12 MAX. P	* 1/2" HEM	k	1 3/8"  1 3/8"  1 3/4"	COLOR SIDE	* 1/2" HEM
7" RIDGE/HIP CA	AP FLASHING		KNEE/RIB COVER		DRIP FLASHING	GI	UTTER EAVE TRIM
7 1/2" HEM *	12. HOW 1	<u>color sid</u>	*		2 1/8"  COLOR SIDE  35	COLOR SIDE	1/2" HEW *
ZEE CLOS	SURE	6" PE	RFORATED VENT STRIP		GUTTER SPLICE	STD. PI	RE-HUNG BOX GUTTER
	1 1/2"  COLOR SIDE	•	6"		7/8" 7/8"  COLOR SIDE  COLOR SIDE  COLOR SIDE	COLOR SIDE	6" 6" 6"
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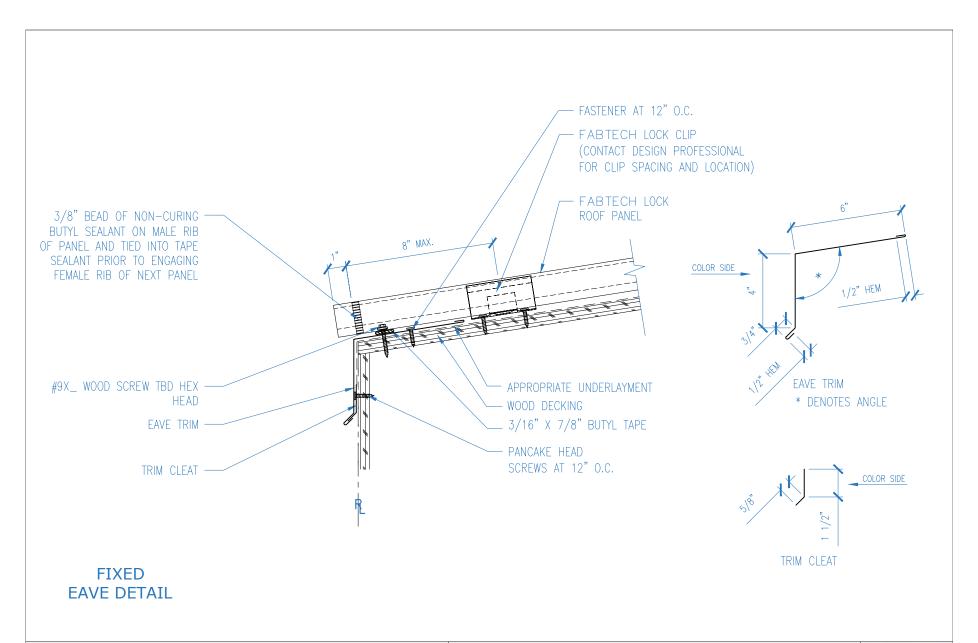


DOWNSPO	UT STRAP	FL	LOATING RIDGE/HIP CAP		FLOATING HIGH EAVE/PEAK	FLOA	TING HEA/END WALL
1/2" HEM	1/2" HEM  1/2" HEM  1/8"  1"  03/45  1"	7 31	12: 000 1/2:		1 3 1 4	.7/1 =: 1 × /	1/20 OPEN 1 3/40 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
18GA PANEL	L SUPPORT						
1"	1 7/8"						
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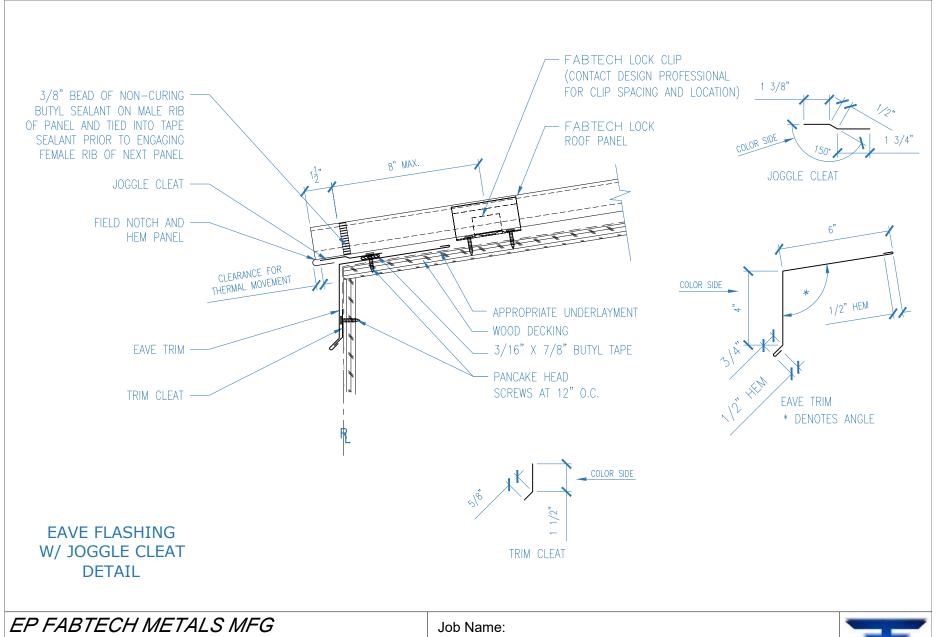




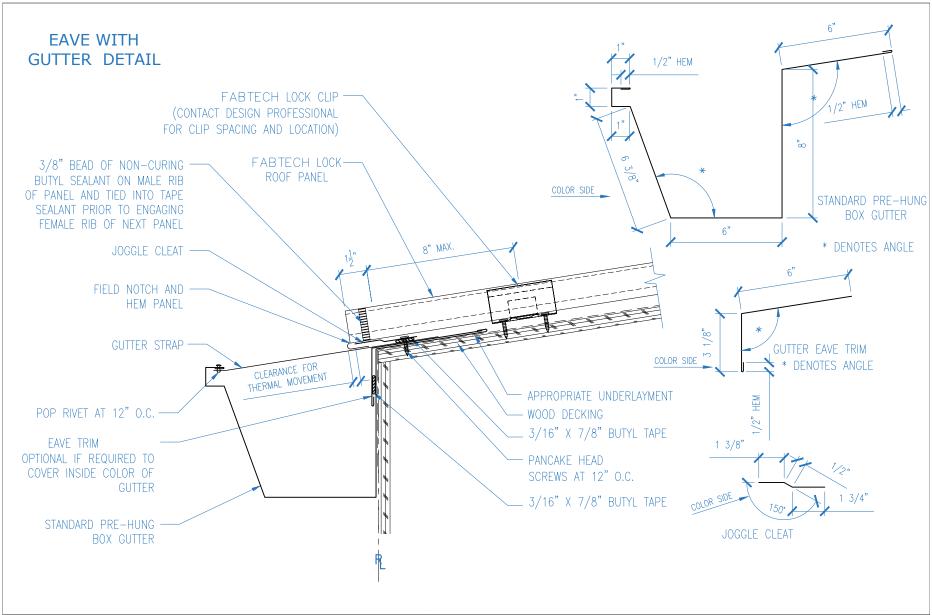
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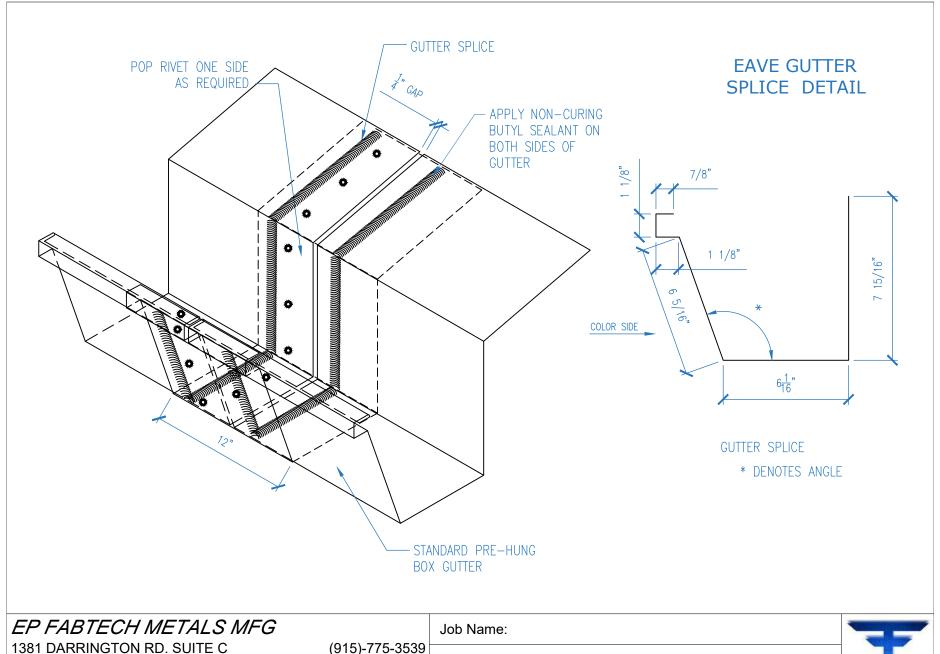
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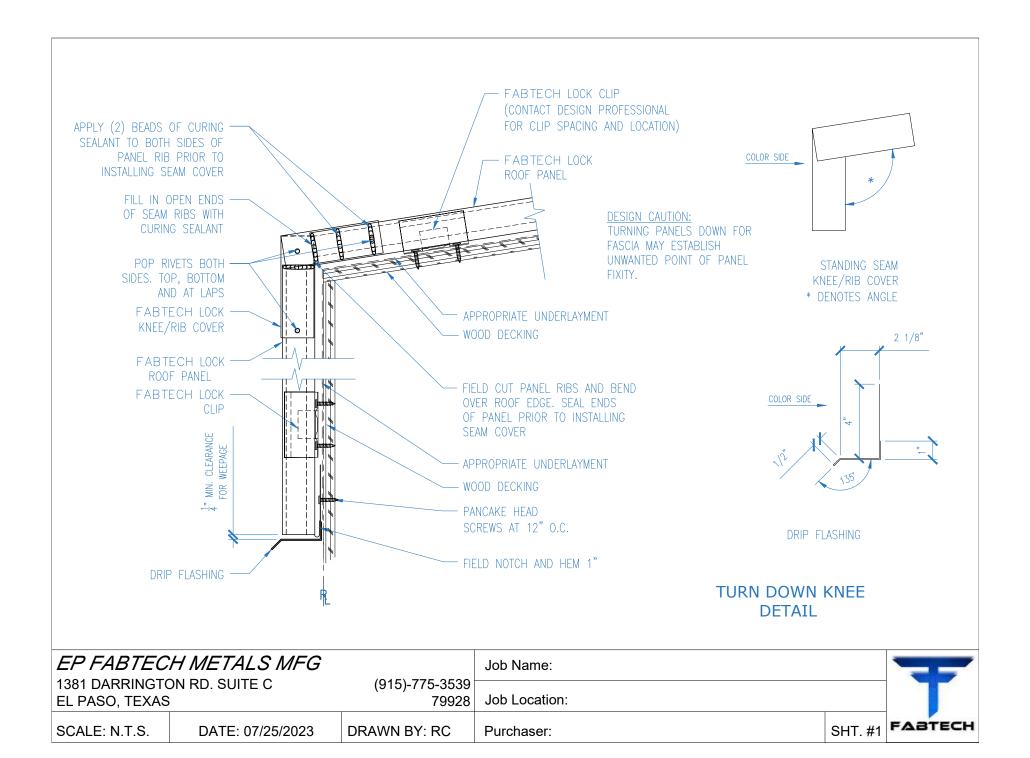
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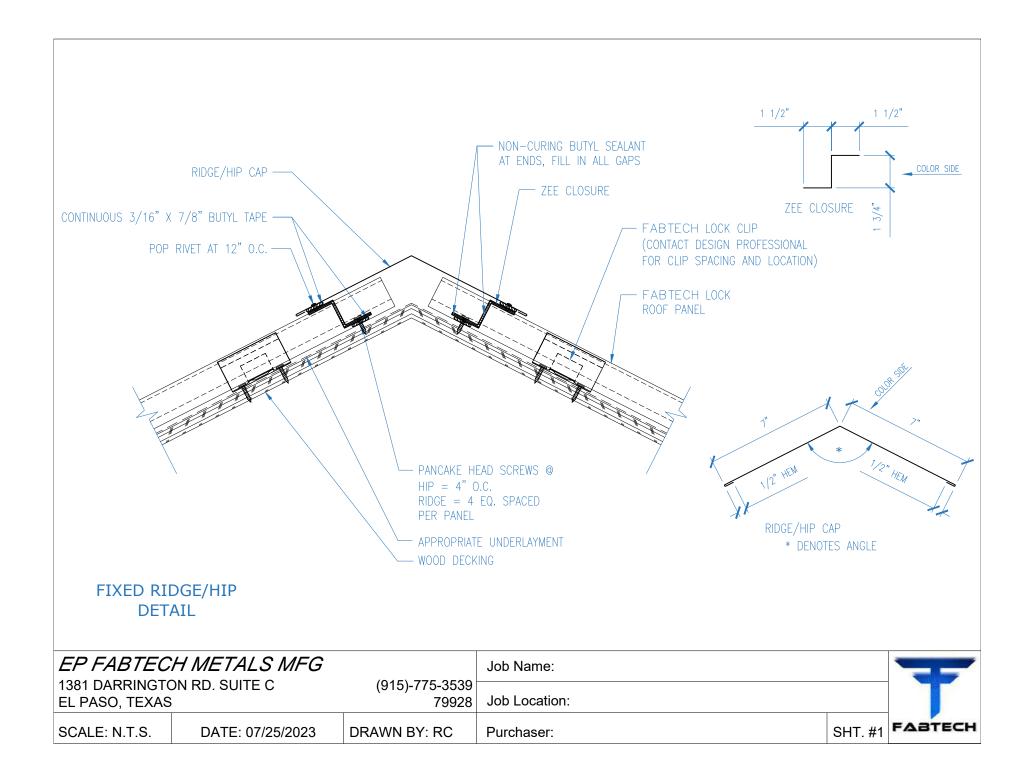


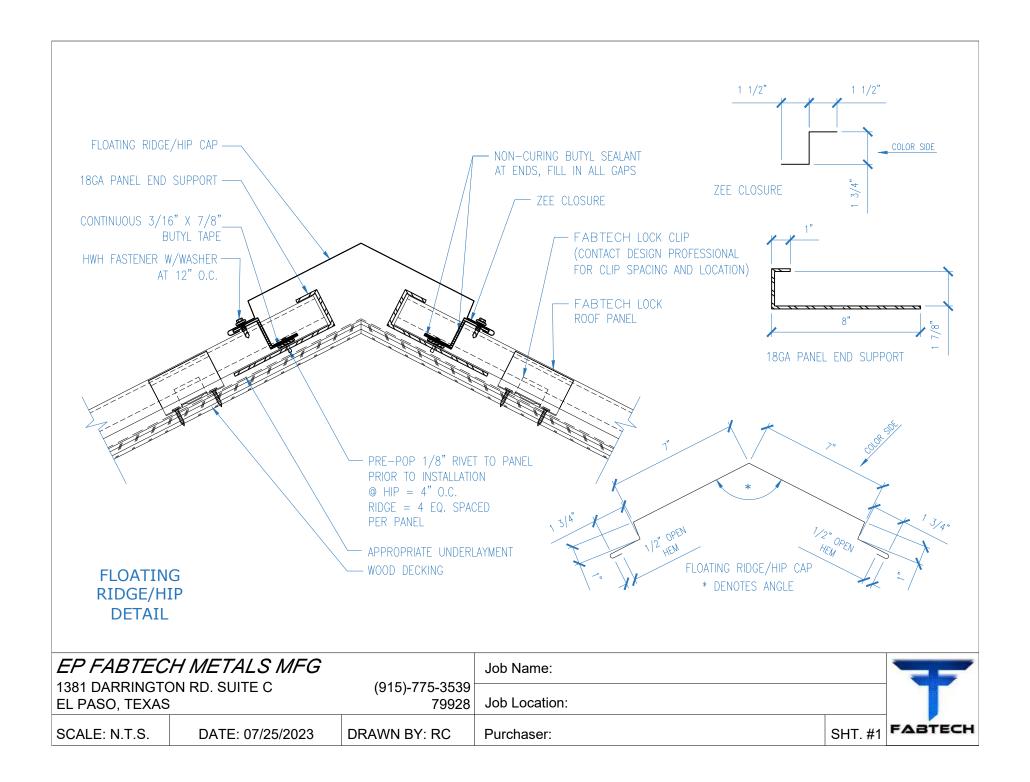
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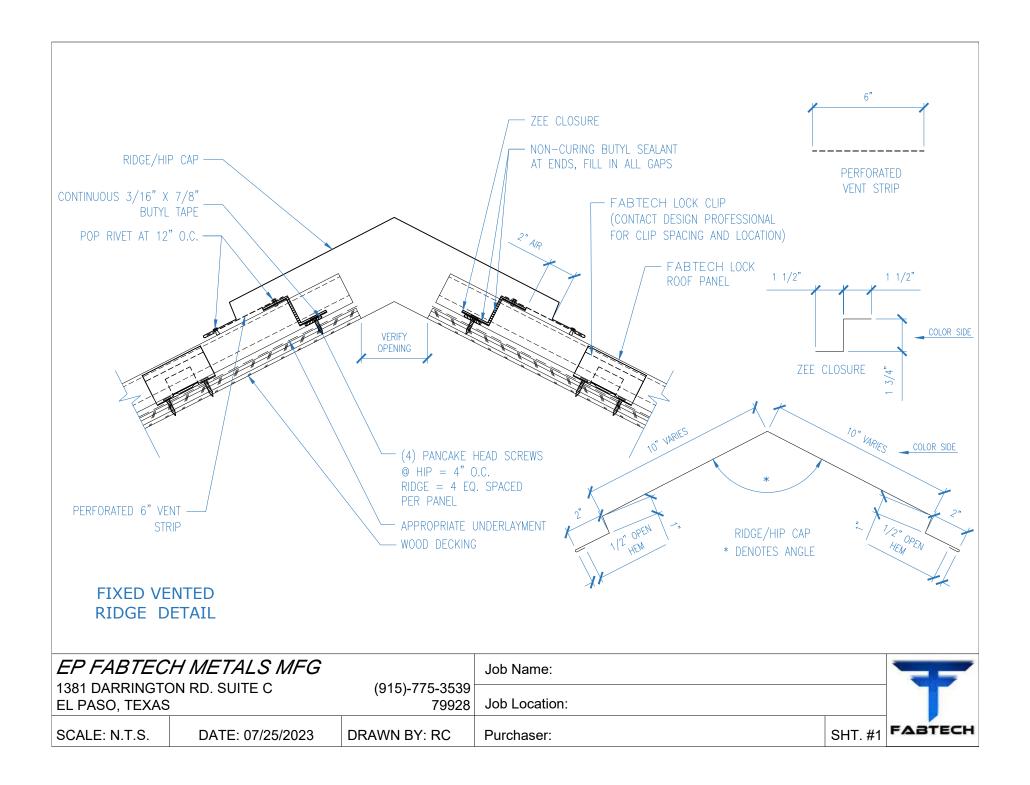


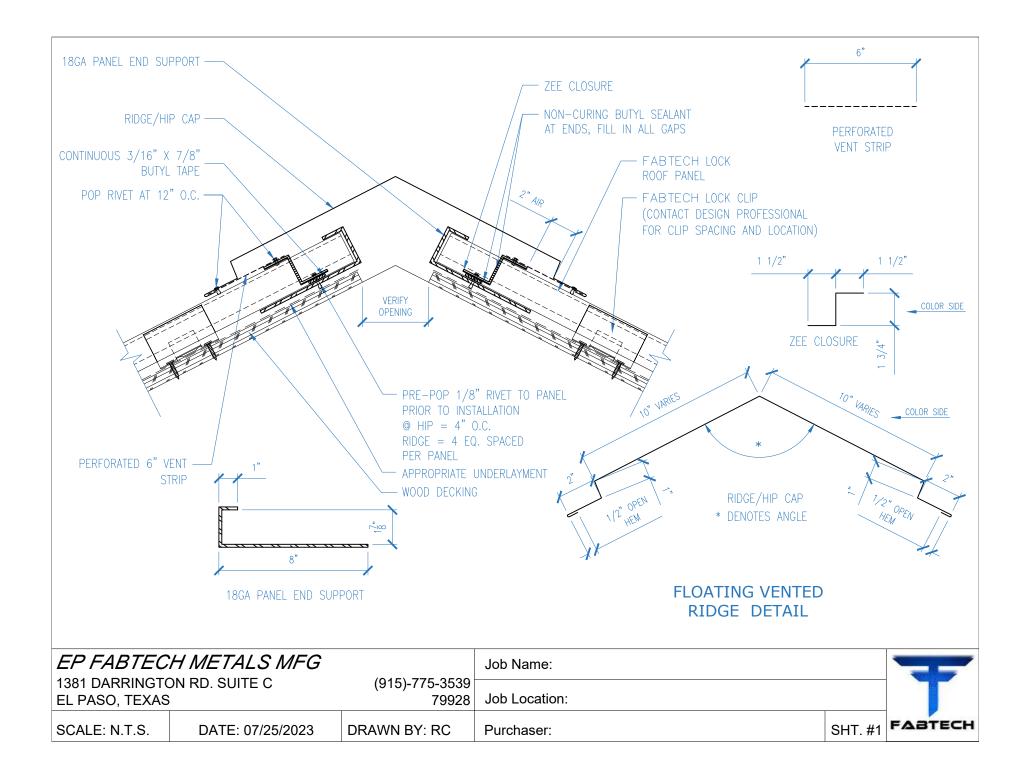
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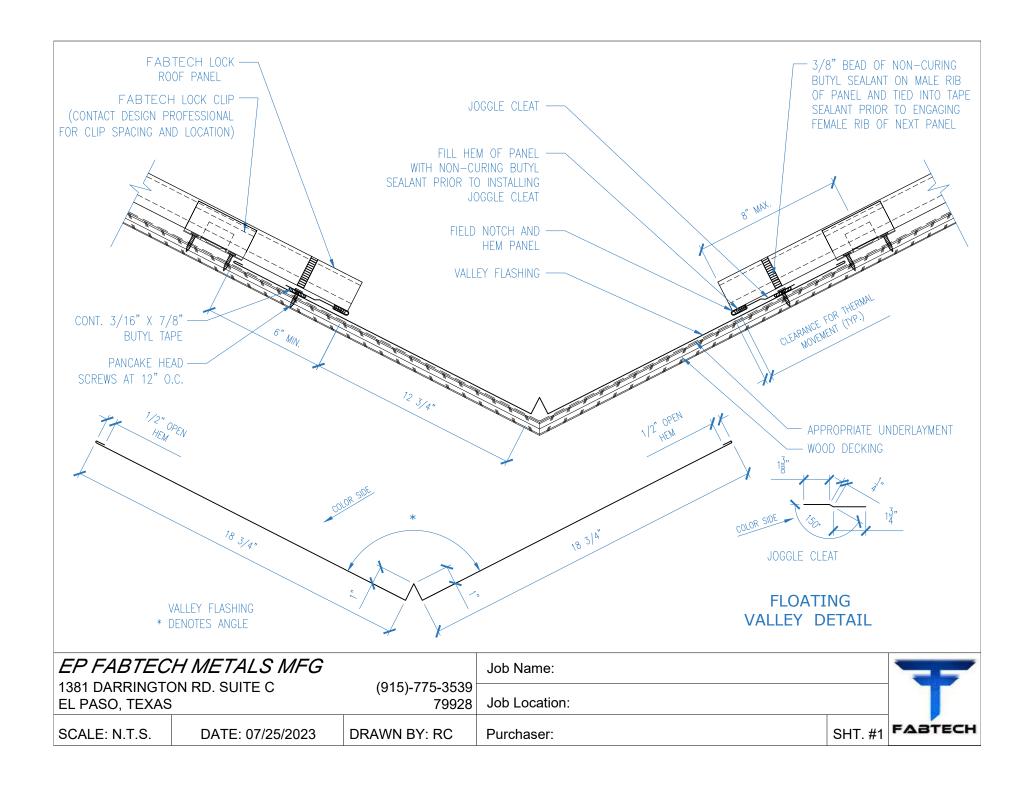


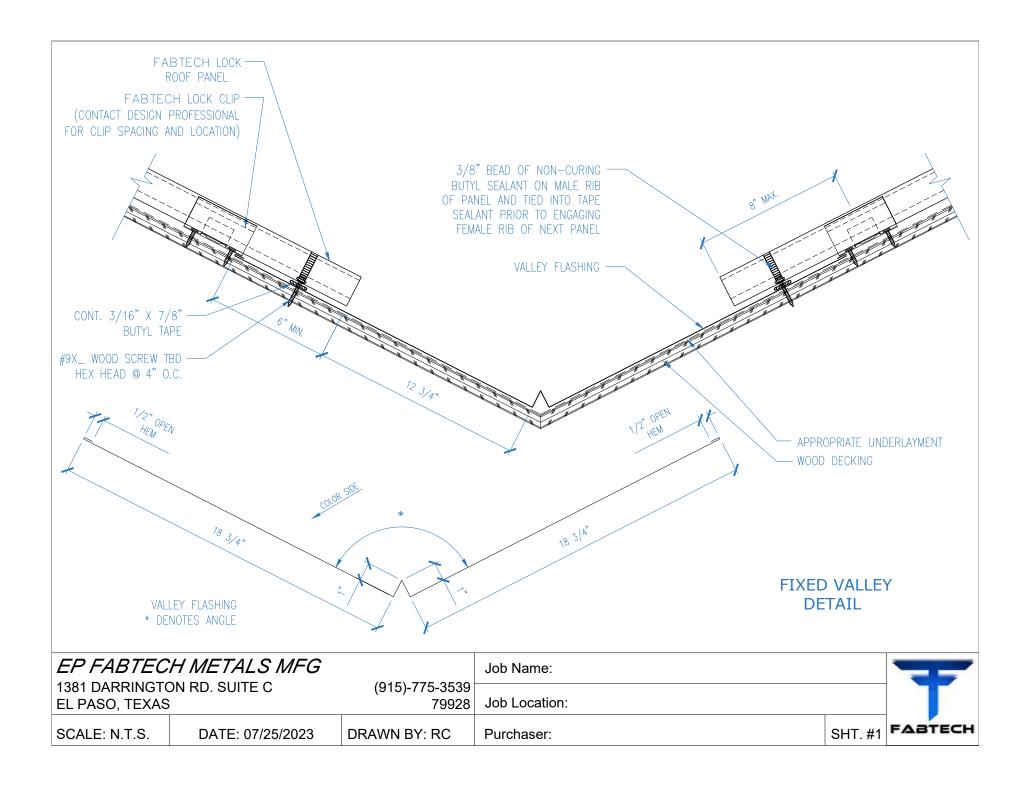


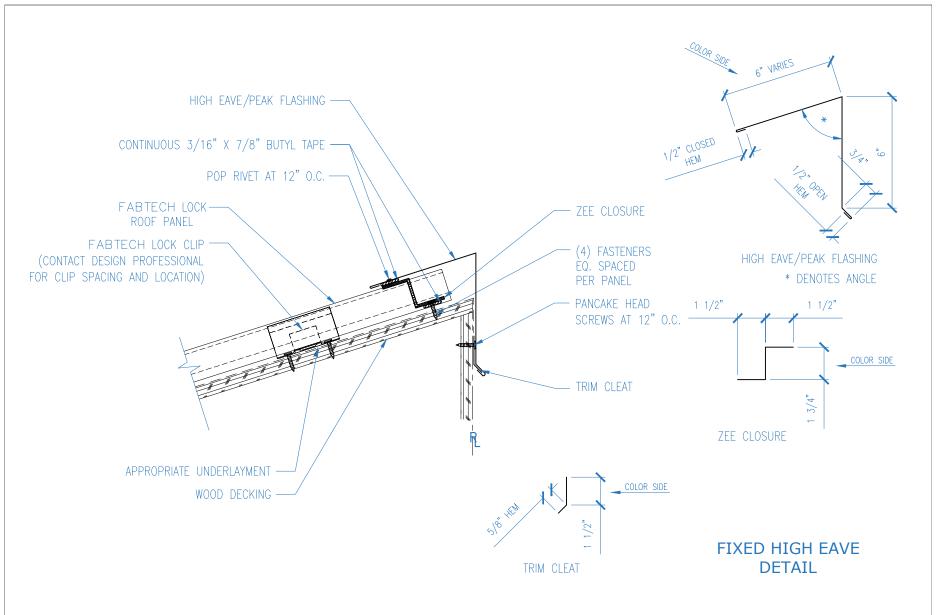




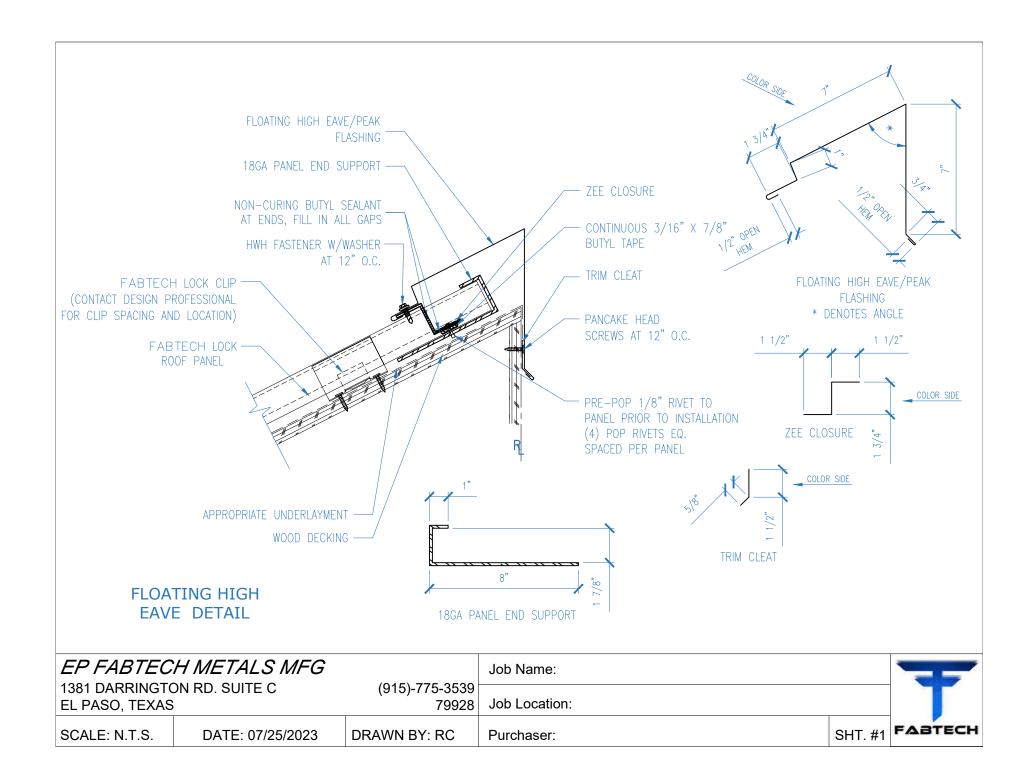


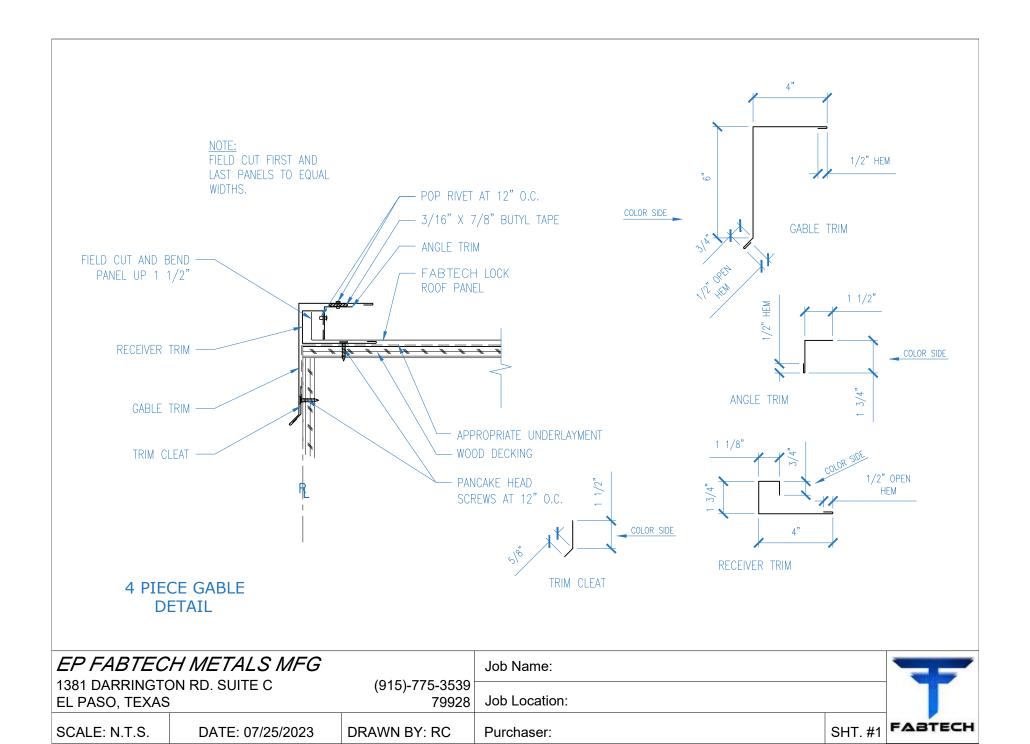


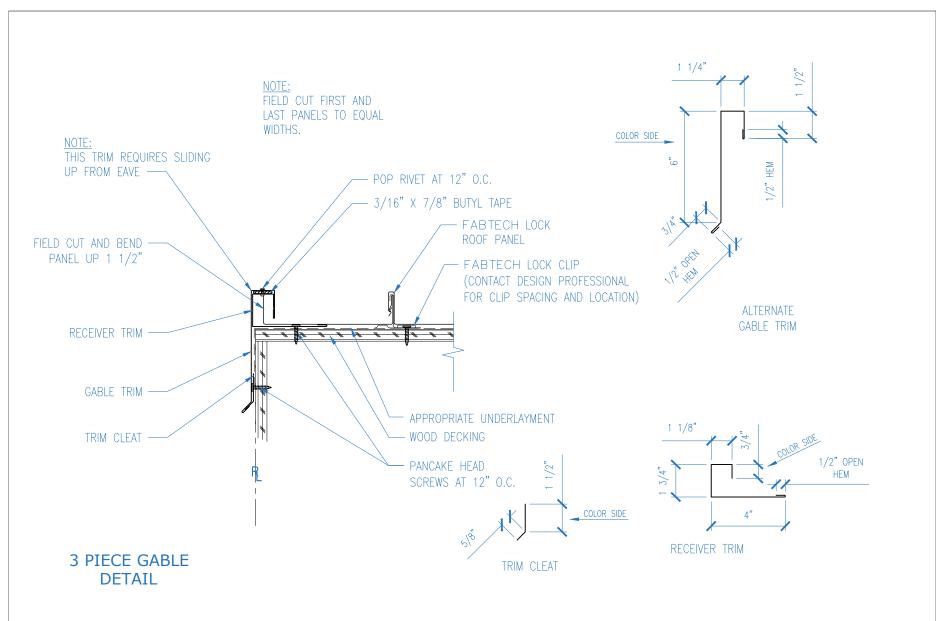




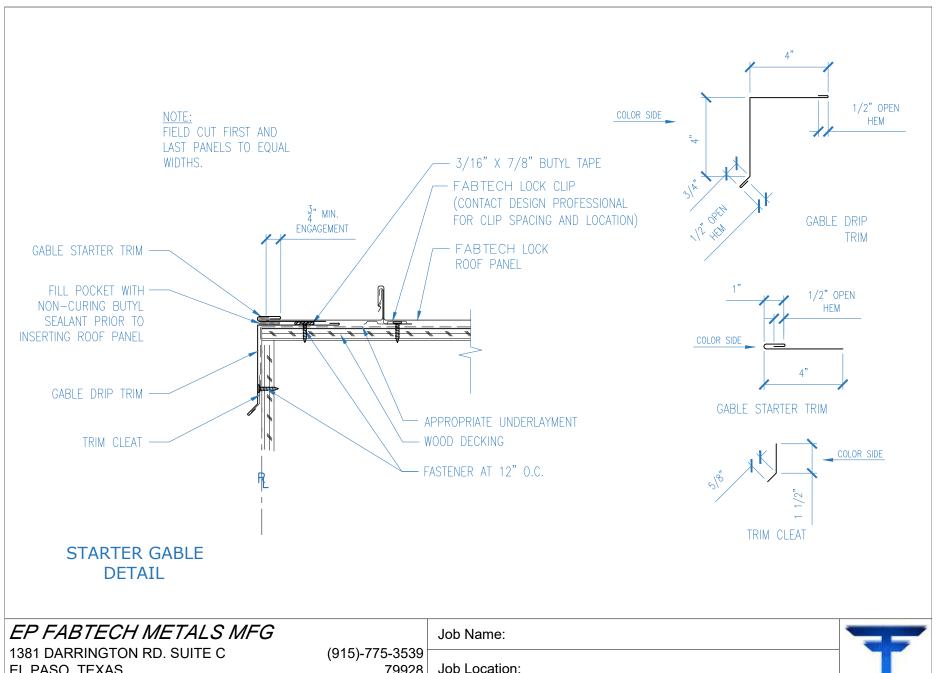
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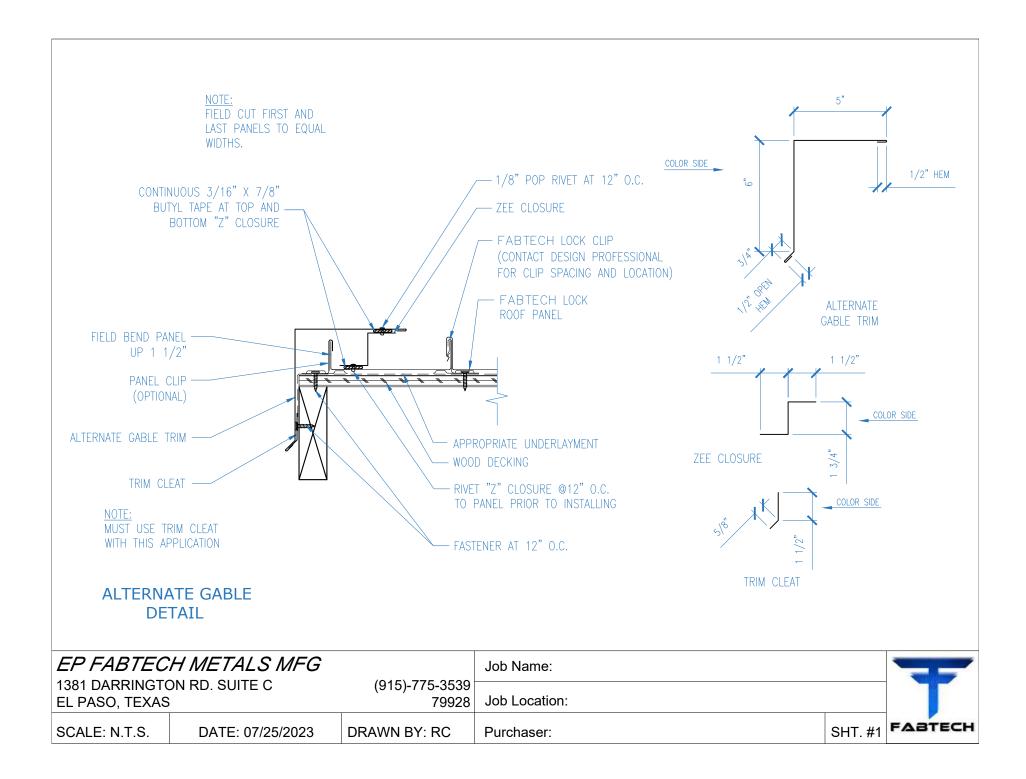


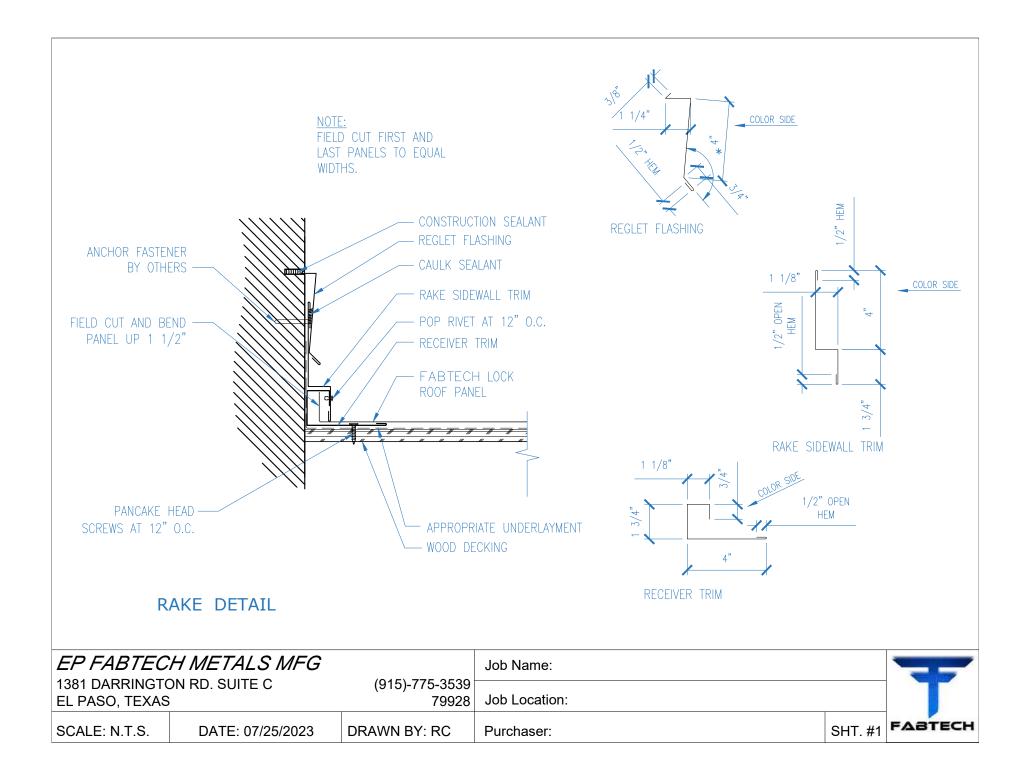


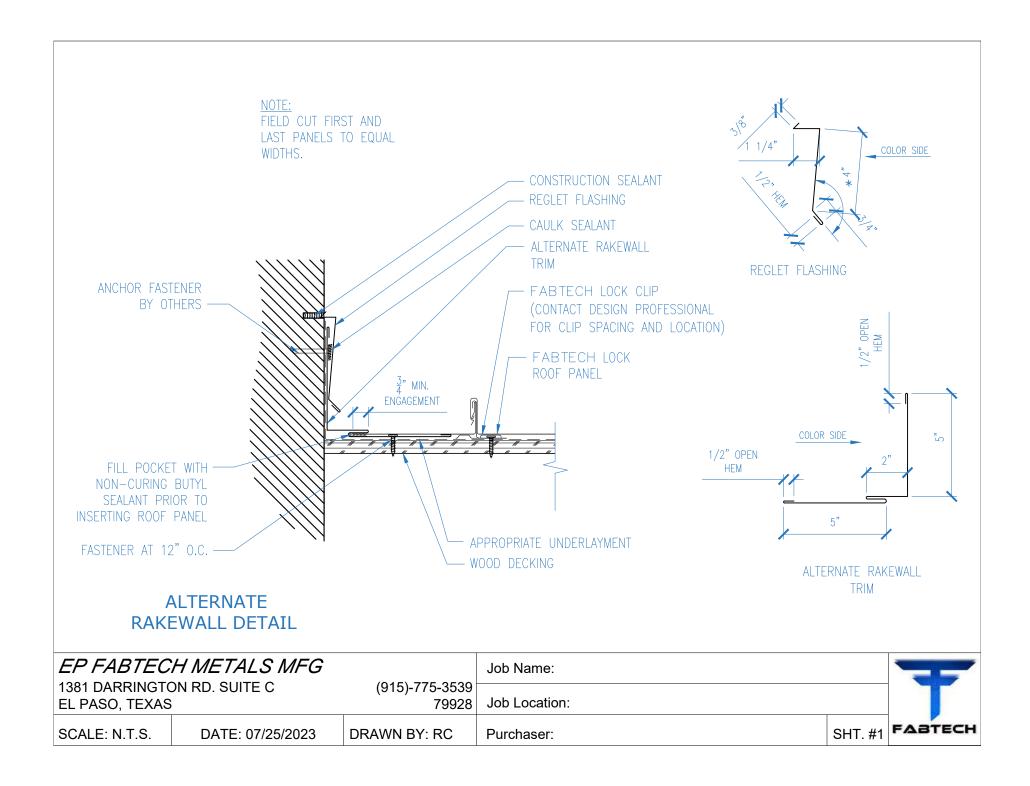
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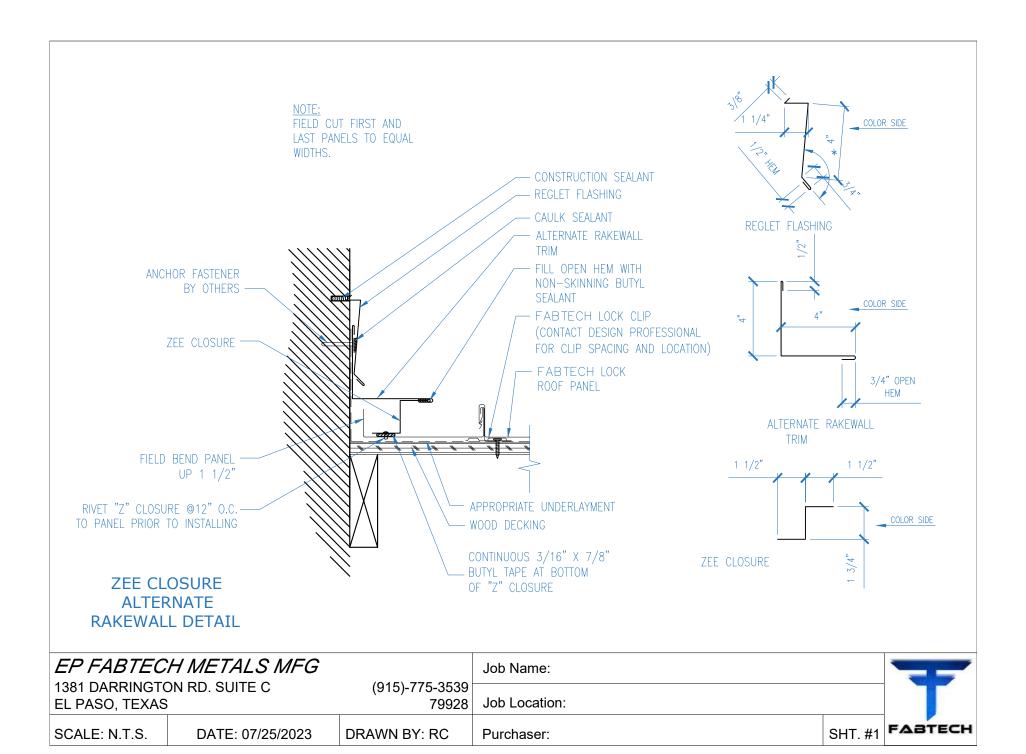


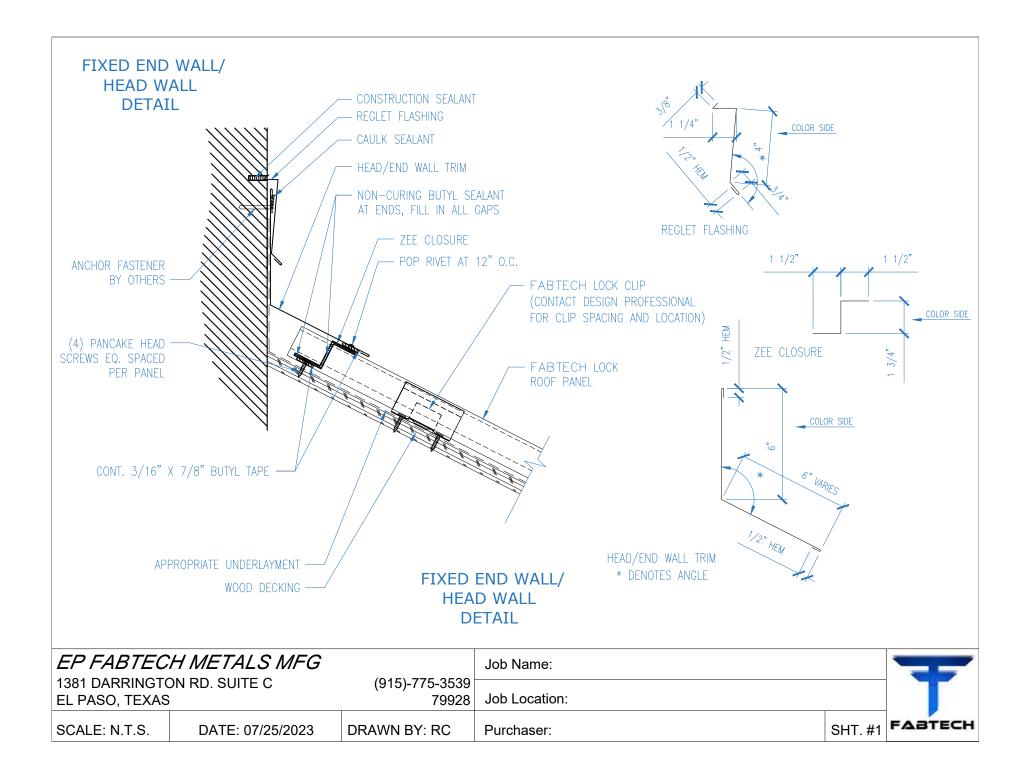
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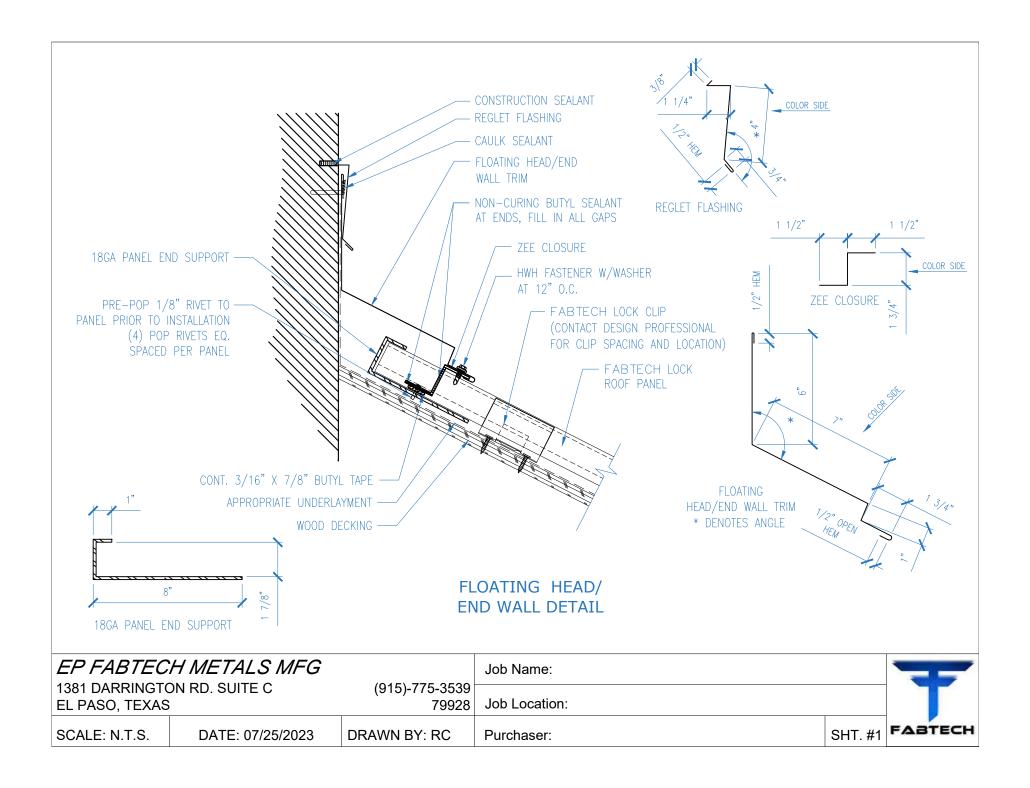


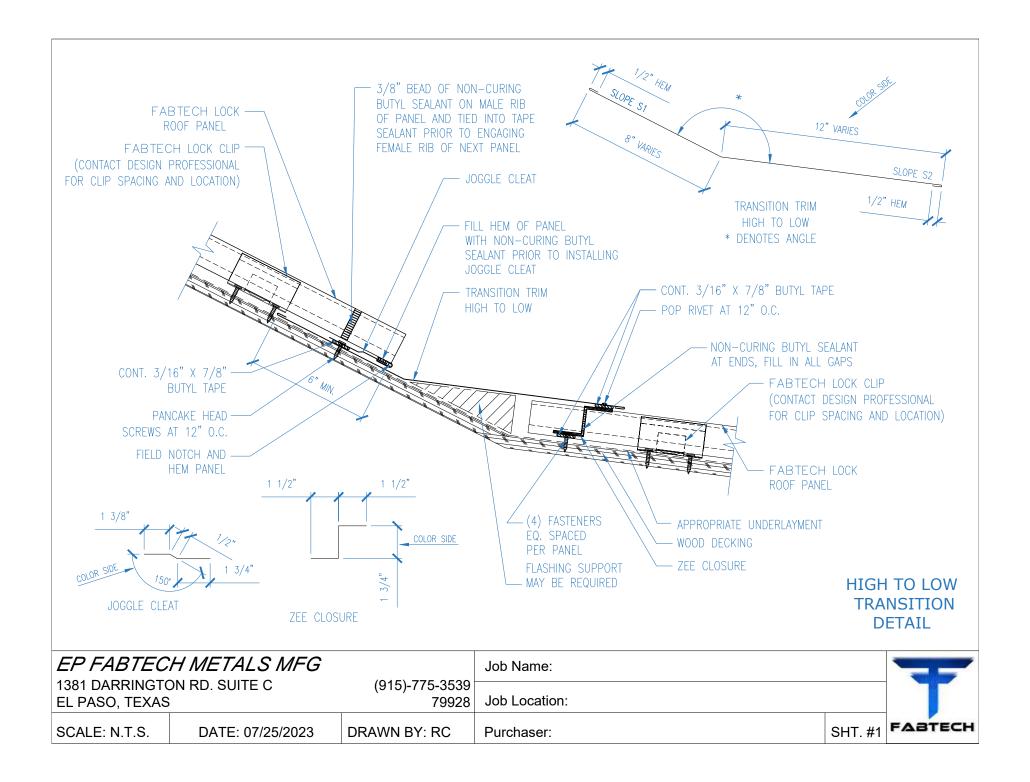


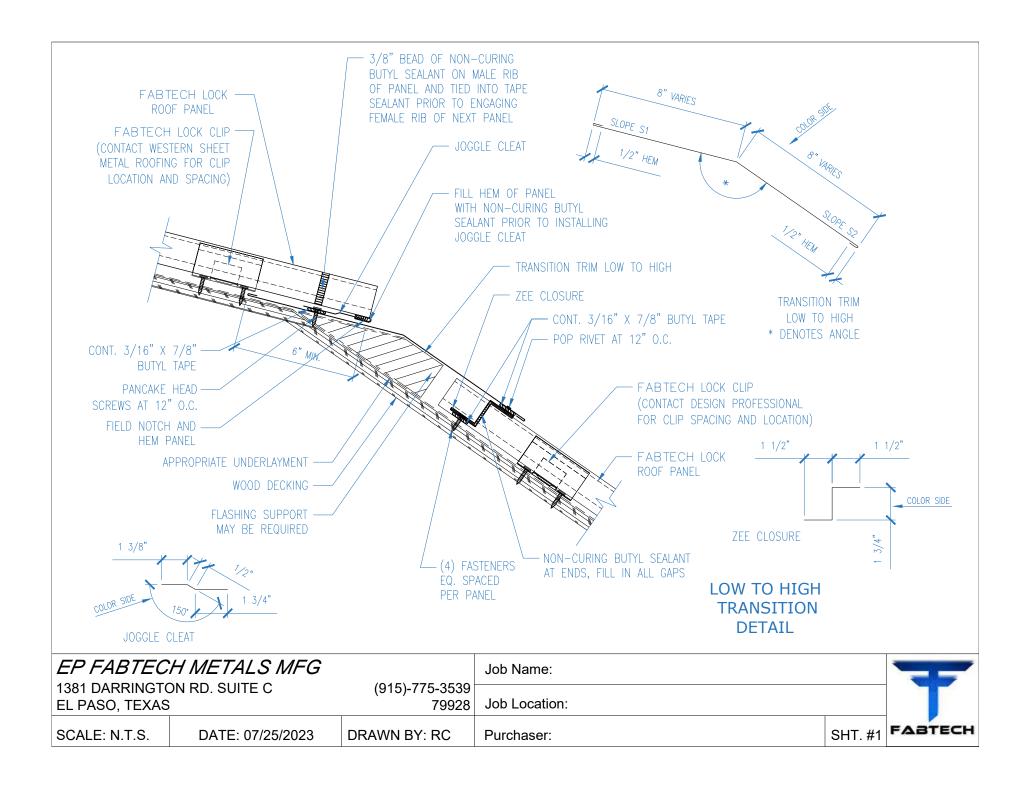


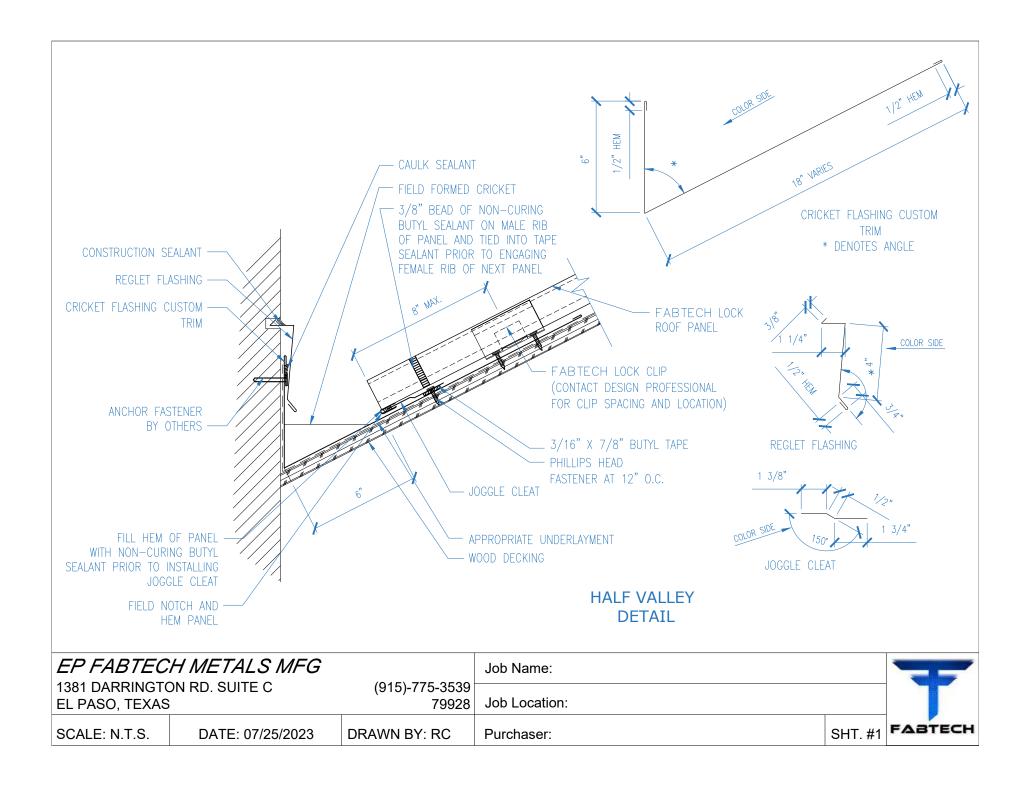


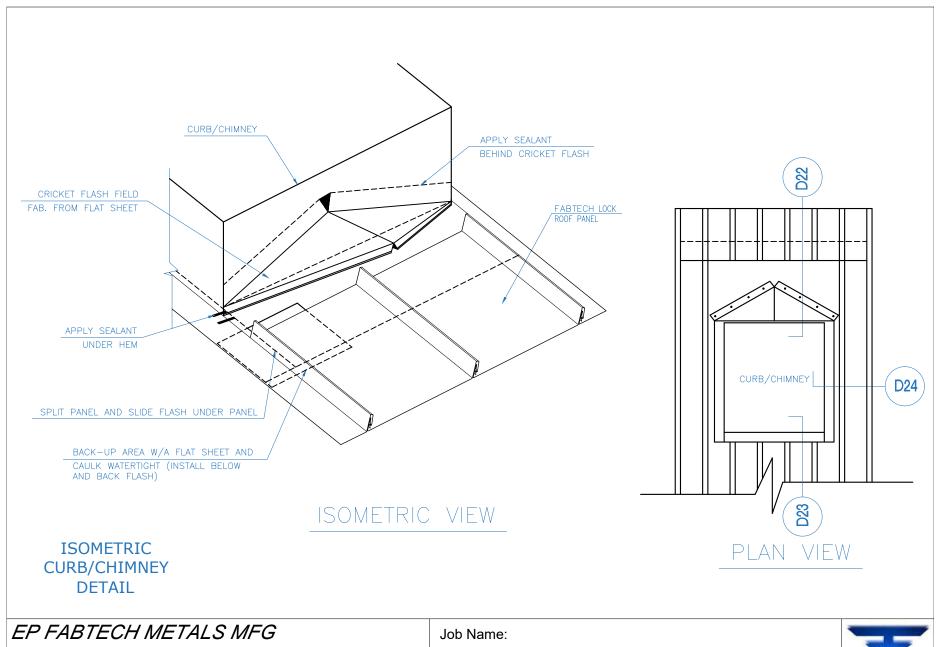




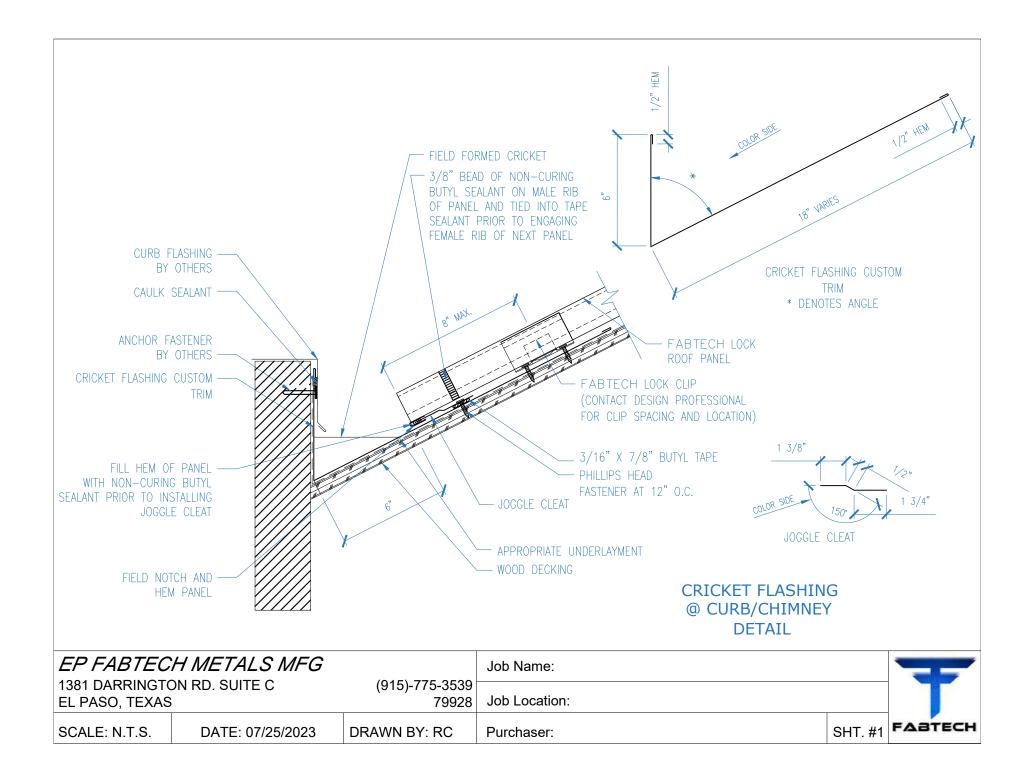


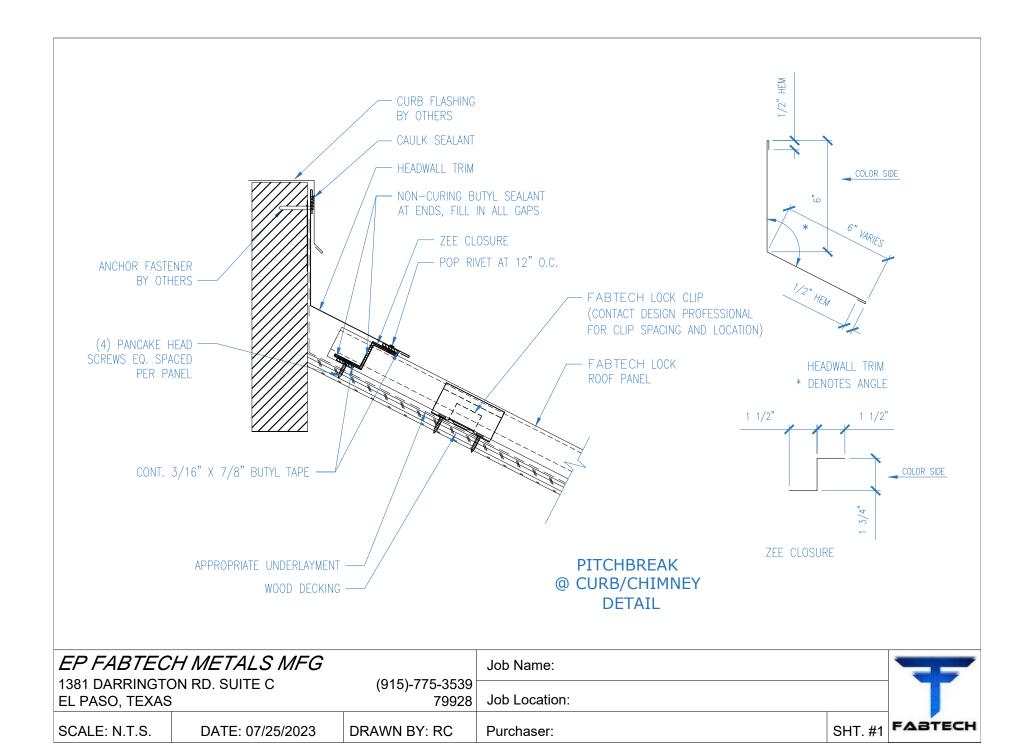


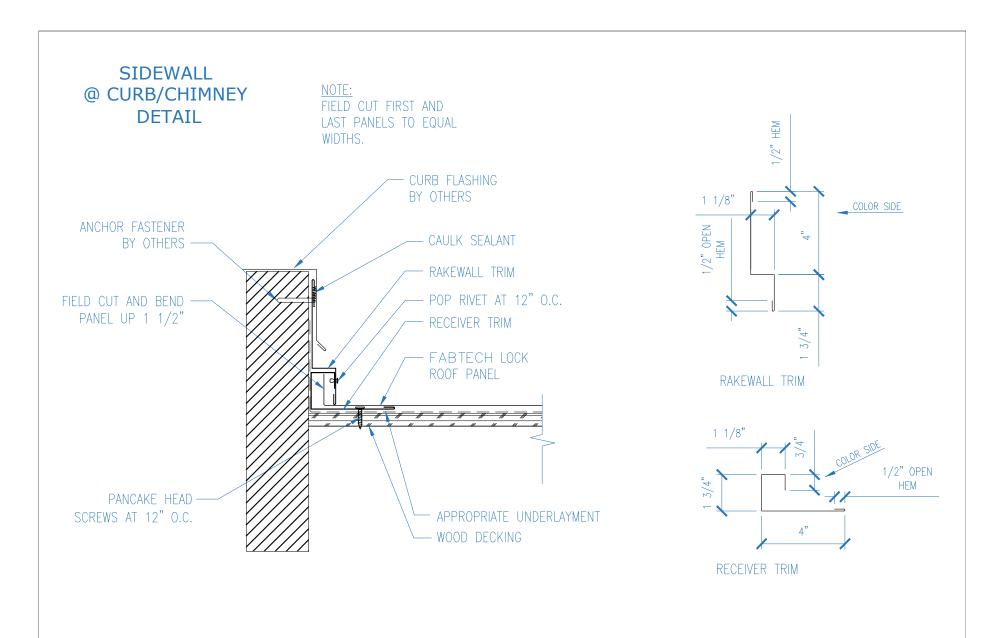




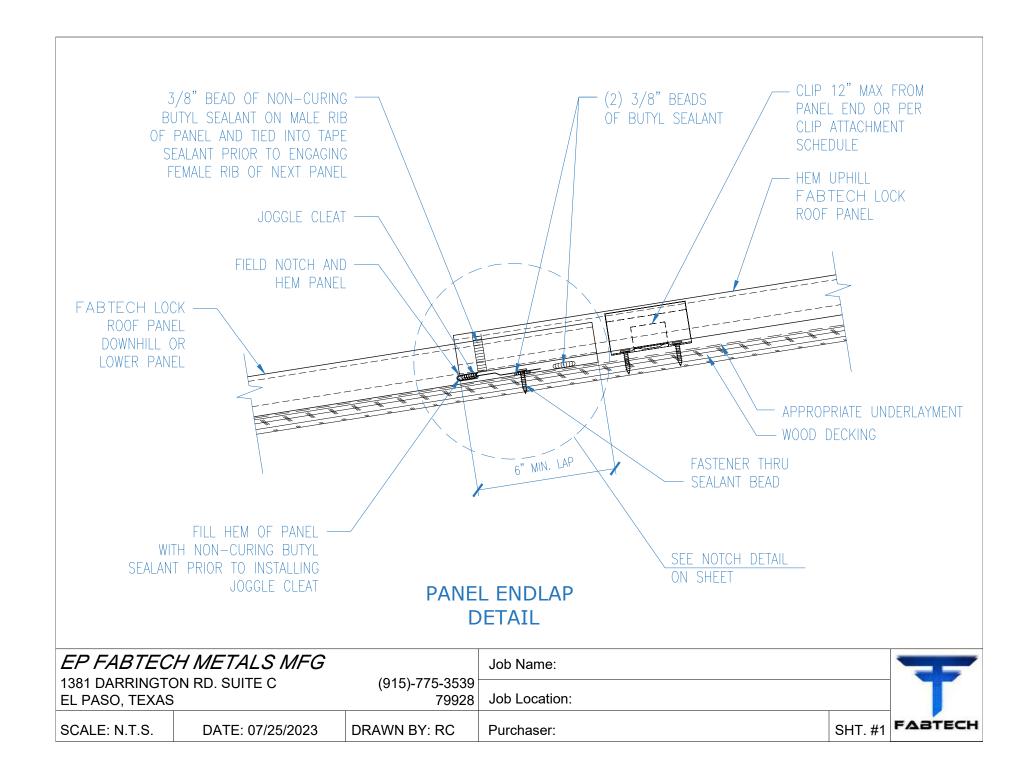
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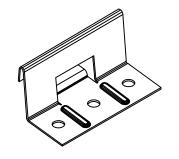






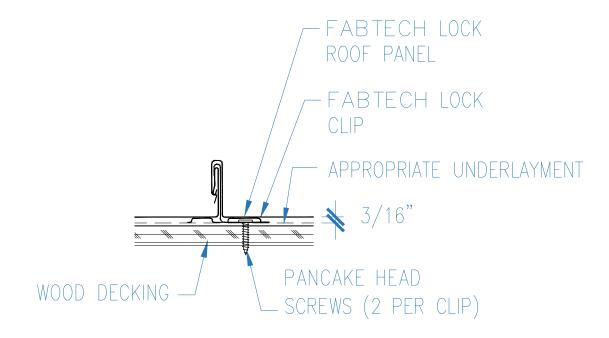
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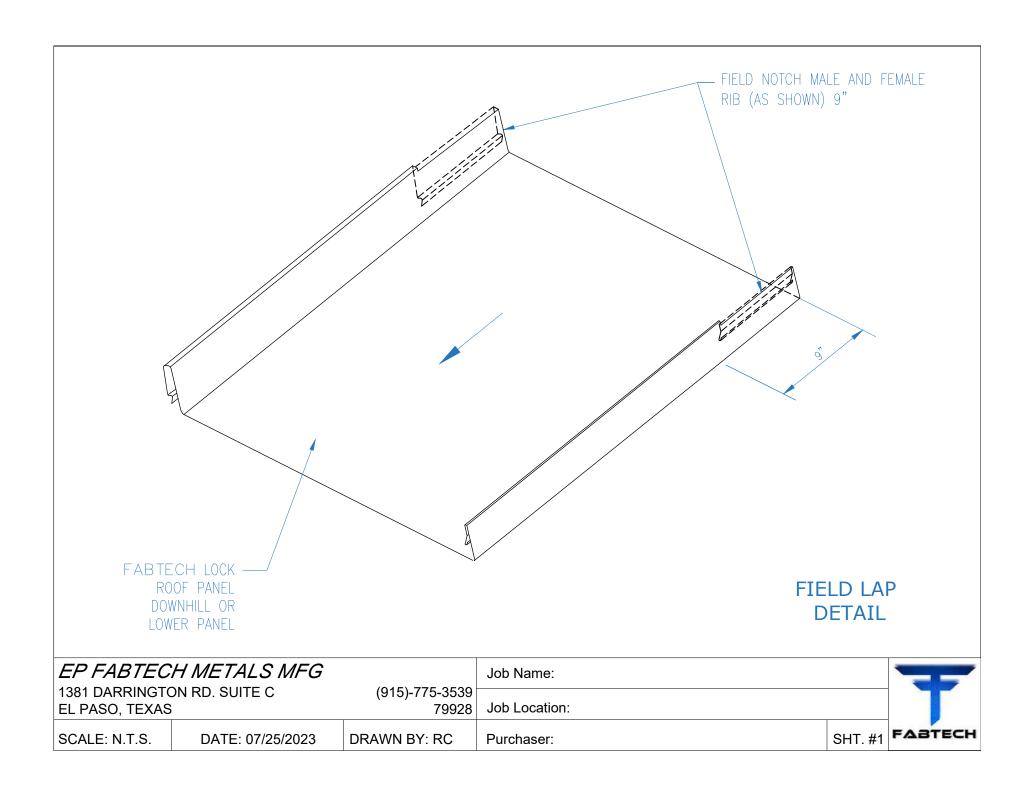


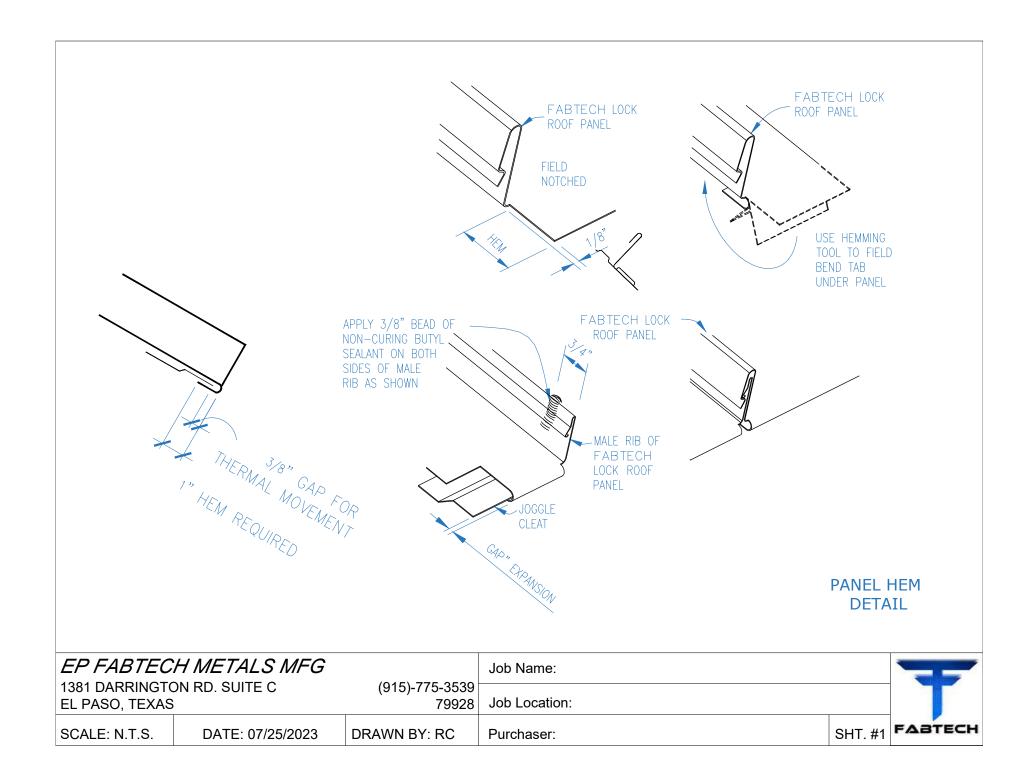
#### PANEL CLIP DETAIL

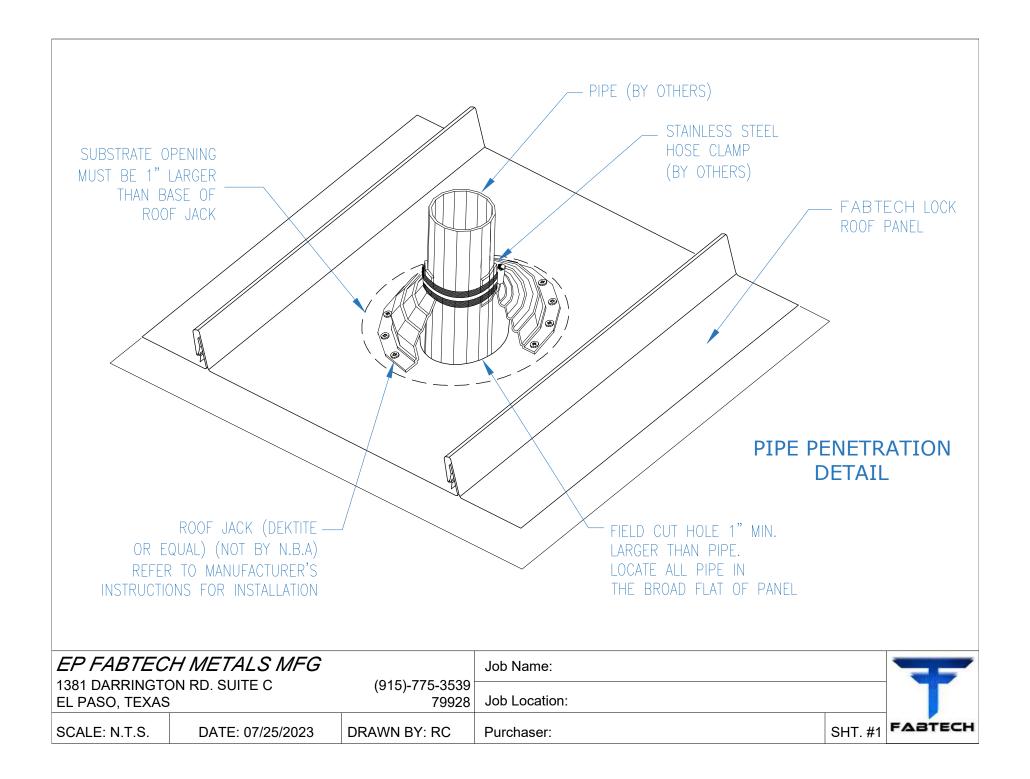
#### FABTECH LOCK CLIP



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