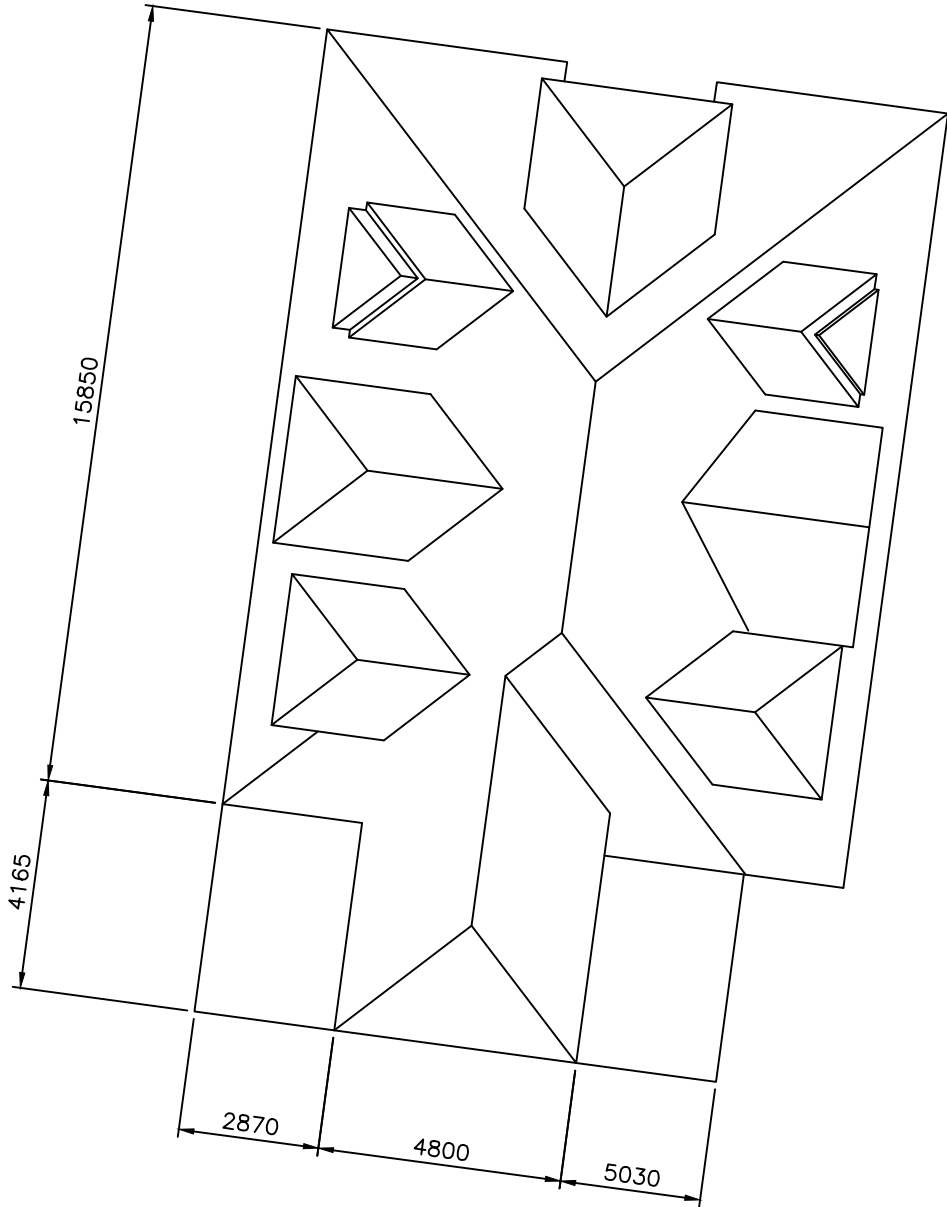


**NRC Herzberg Astronomy and Astrophysics
Bldg. # VIC 01 (1916 Wing)
Project No.719466
Roof Replacement 2015**

SPECIFICATION PREPARED BY:

*J. WATSON ROOFING CONSULTING INC.
ROOF AND WATERPROOFING CONSULTANT
VICTORIA, BRITISH COLUMBIA*

NRC Dominion Observatory
1916 Wing

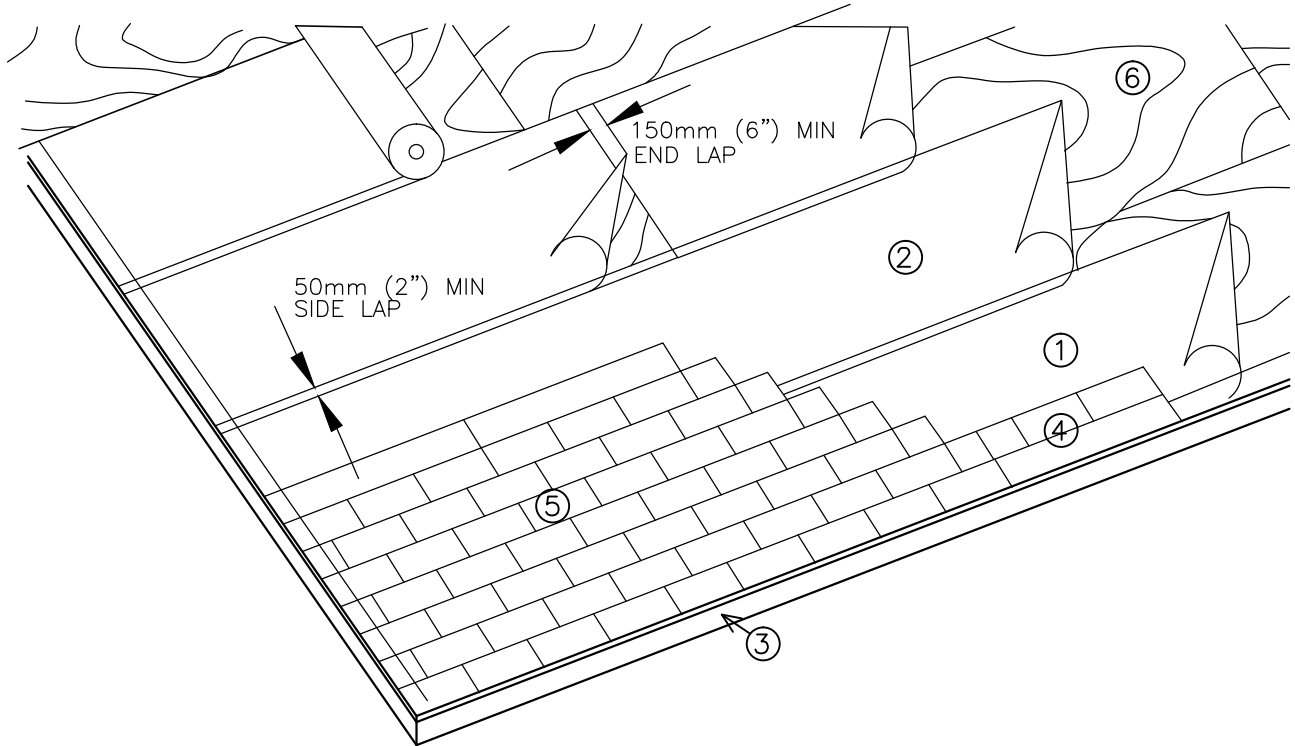


NOTE: FINISHED GRADE TO UNDERSIDE OF EAVE IS 11000mm AT ITS GREATEST

The purpose of this drawing is to illustrate the general nature of the work. All distances and conditions are approximate and should be verified by the contractor.

NRC Herzberg Astronomy And Astrophysics (Victoria) Bldg #VIC 01 (1916 Wing)	J. WATSON ROOFING CONSULTING INC. ROOFING AND WATER PROOFING CONSULTANT 224 Seafield Road, Victoria BC, V9C 1S5 Phone: (250) 391-7887 Fax: (250) 391-7887	
2015 Roof Replacement PROJECT #: 719466	DESIGNED: JW DRAWN: MR	SCALE: NTS DATE: August 16, 2015 DRAWING NUMBER: A-01

STEEP SLOPE SHINGLE APPLICATION



1. Eaves Protection: One ply specified self-adhered SBS membrane eaves protection Lap 50 mm (2") minimum on sides and 150 mm (6") minimum on ends.
2. Underlayment: One ply of UDL 30 Or #501 UDL Base Ply or accepted eaves protection. Overlap 75 mm (3") minimum on side laps and 150 mm (6") minimum on end laps.
3. Edge Metal Flashing: Installed to manufacturers printed instructions.
4. Starter Course: Standard starter course consist of shingles with applied tabs facing up slope. Laminated shingle starter courses consist of Manufacturers proprietary starter shingles. Apply to Manufacturers printed application instructions.
5. Laminated Shingles: Applied as specified
6. 16 mm ($\frac{5}{8}$ ") Plywood Sheathing Mechanically Fastened Over Existing Wood Deck

NOTE: Use manufacturers recommended nailing pattern. Placement varies with manufacturer.

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DESIGNED:

JW

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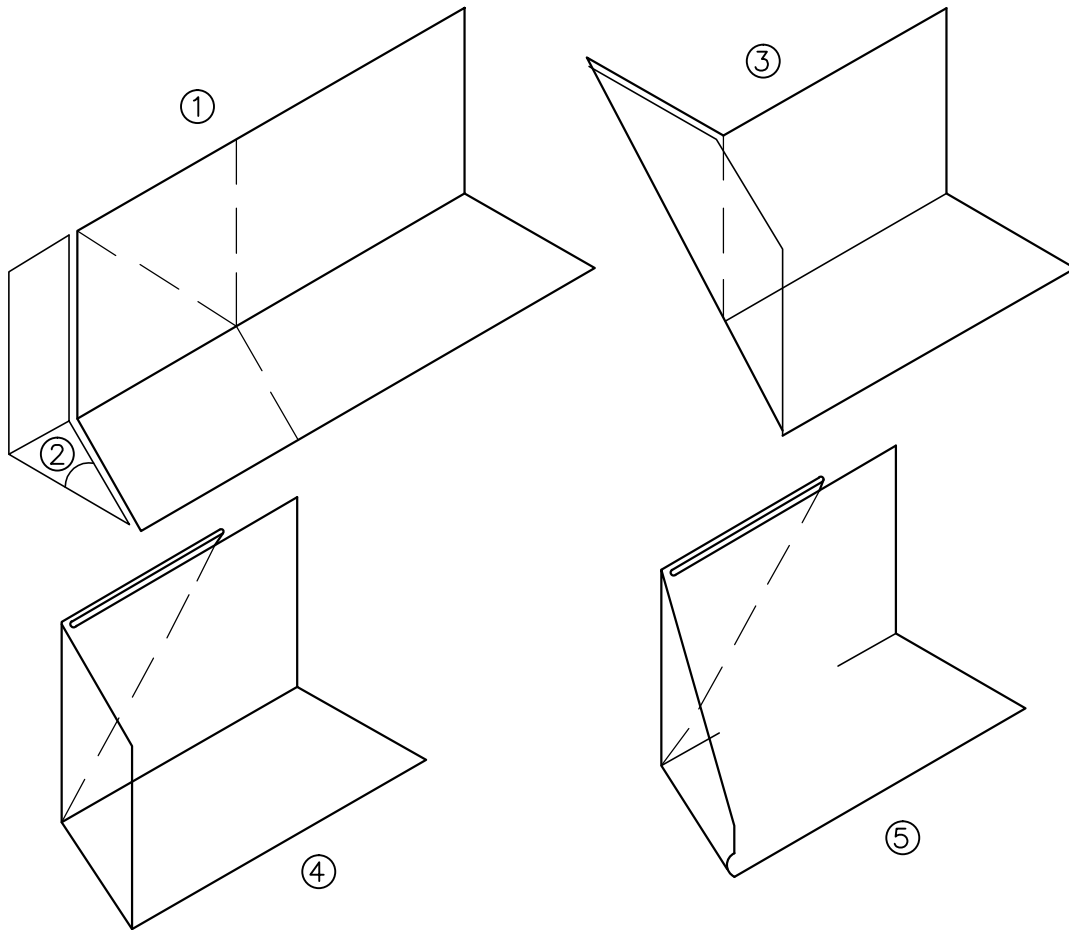
MR

DATE:

August 17, 2015

A-02

DIVERTER FLASHINGS



WORK INCLUDED

1. Trim: and the kick-out must be approximately 20-degree angle to the vertical slope.
2. Fold Layout: Formed from a minimum 26 guage galvanized steel diverters shall extend a minimum 125 mm (5") up vertical surfaces 100 mm (4") to the roof.
3. Breadpanned Corner Fold: Fold up must be equal in height to to the upstand of the flashing.
4. Hidden Seam: Breadpan fold to be turned behind the upstand.
5. Angle Trim: Kick-out can be angle trimmed and a drip edge formed at the outlet. Outlet is to extend a minimum of 25mm (1") lower than the edge of the roof material and lead water into the gutter where existing.

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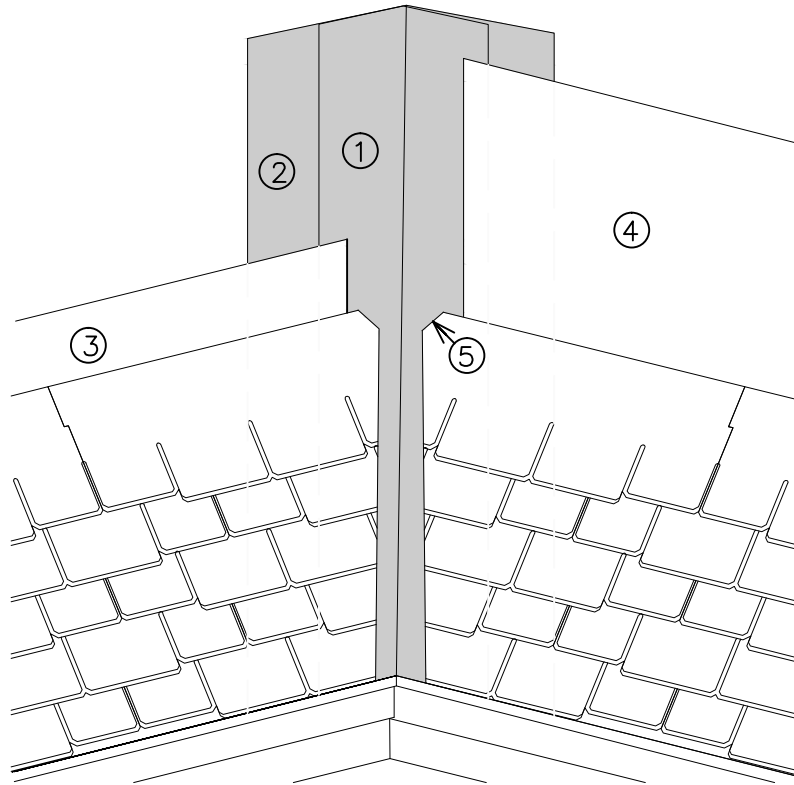
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DATE:

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A-03

OPEN METAL VALLEY DETAIL



1. Valley flashing is one layer of galvanized or pre-painted sheet metal (Min 26 ga.) not less than 600mm (24") wide
2. Valley Protection Underlayment
3. Eave Protection
4. Underlayment
5. Cut and trim approximately 50mm (2") diagonal off shingle corners

NOTES:

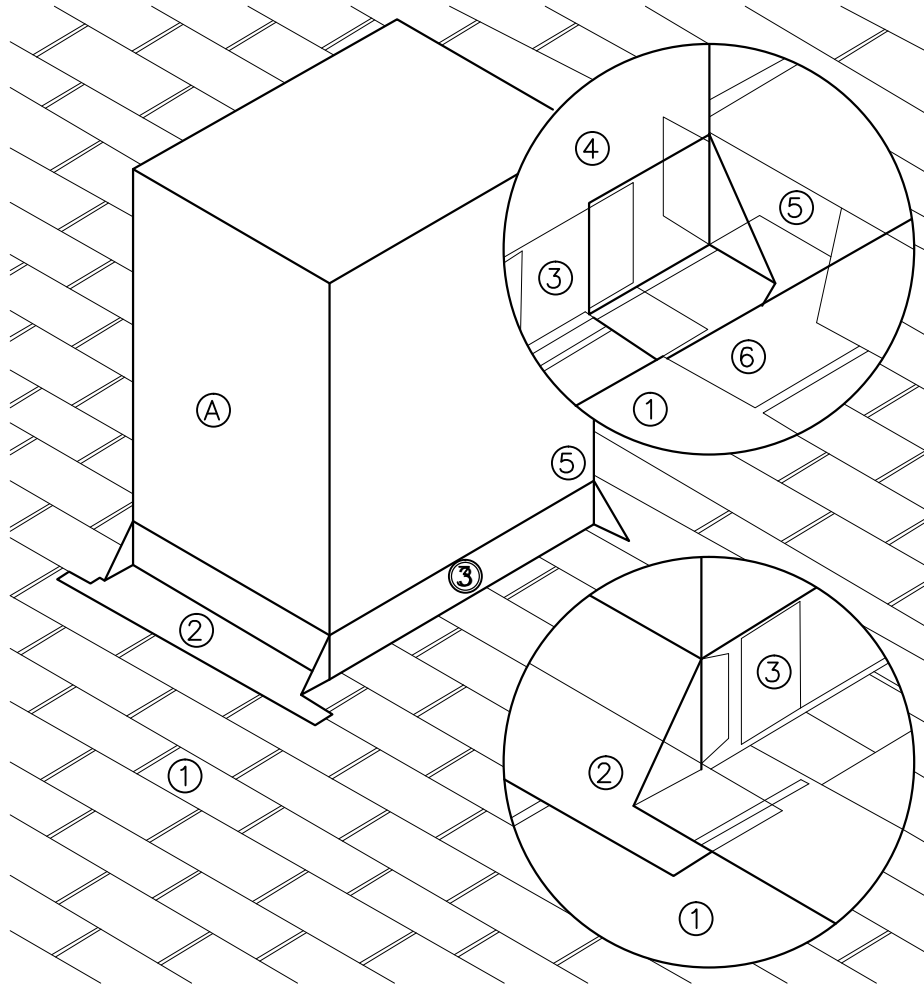
Open valleys shall be flashed with sheet metal not less than 600 mm (24") wide centred in the valley and fastened with nails spaced not more than 450 mm (18") located 25 mm (1") away from the edges. Cut and trim all points of valley shingles. Open valleys are the only style permitted for lock type or laminated asphalt shingles.

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DRAWN: MR	DATE: August 17, 2015	A-04

CURB FLASHING



WORK INCLUDED

1. Laminate Shingles: Installed to manufacturers published instructions and RGC Standards.
2. Apron Flashing: Extended a minimum 100mm (4") beyond corners, interwoven with shingles and step flashings.
3. Step flashings: Interwoven with each course of shingles, 75mm (3") head lap.
4. Final Step flashing: Extended around corner of the upstand and under back pan flashing. The upstand fold can alternatively be turned outward under the back pan fold.
5. Back Pan: The back-pan is to be extended 100mm (4") beyond the corner and folded. Apply caulking at the transition corner of the final step flashing and back pan.
6. Capillary Section: A capillary tab is to be extended off the end of the back pan to lead water around the corner.

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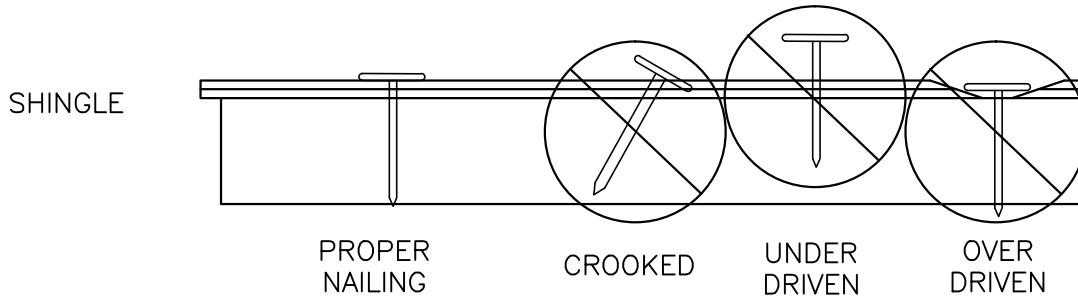
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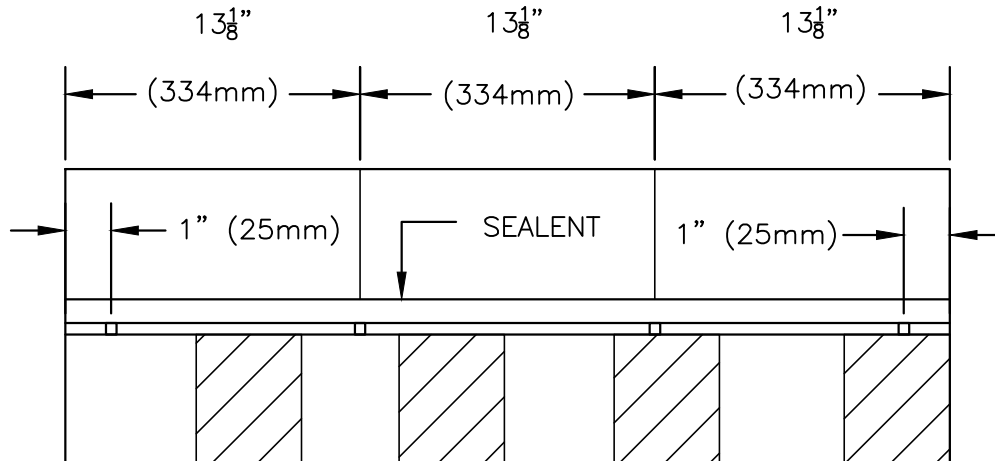
August 17, 2015

A-05

FASTENING ASPHALT SHINGLES



METRIC DIMENSIONS

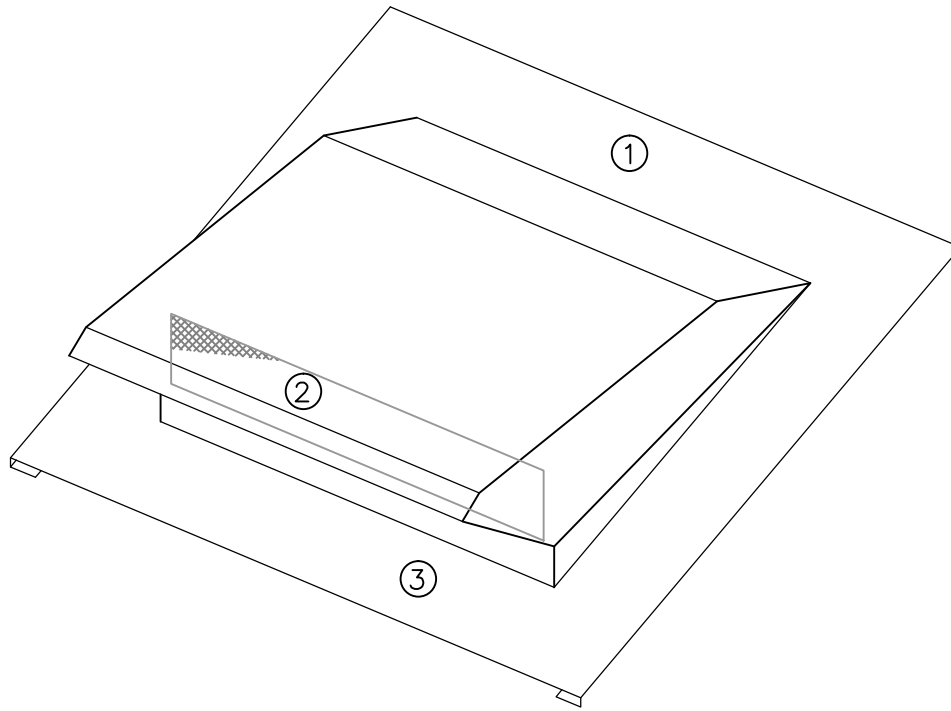


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AIR FLOW EXHAUST VENT



1. 24 Ga. Dark Brown Metal Vent Minimum 75mm(3") Flange With Folded Safety Edge on Four Sides
2. Galvanized Metal Bug Screen Over Vent Opening
3. Form Vent Opening 200mm (8") High by 300mm(12") Wide
4. Install Vent Near Ridge For Attic Space Air flow Exhaust – One Square Foot of Net Free Open Space For Every 300 Square Feet Of Attic Floor/Ceiling Space Split Between Eave and Ridge As Close to 50% / 50% As Possible

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DRAWN: MR	DATE: August 17, 2015	