

- NOTES:
1. THIS DETAIL APPLIES, WHERE THE SEAMS PASSES THROUGH THE PREMOLDED PIPE FLASHING AND IT IS ONLY DEFICIENT AT THE JUNCTION OF SEAMS AND THE PREMOLDED FLASHING.

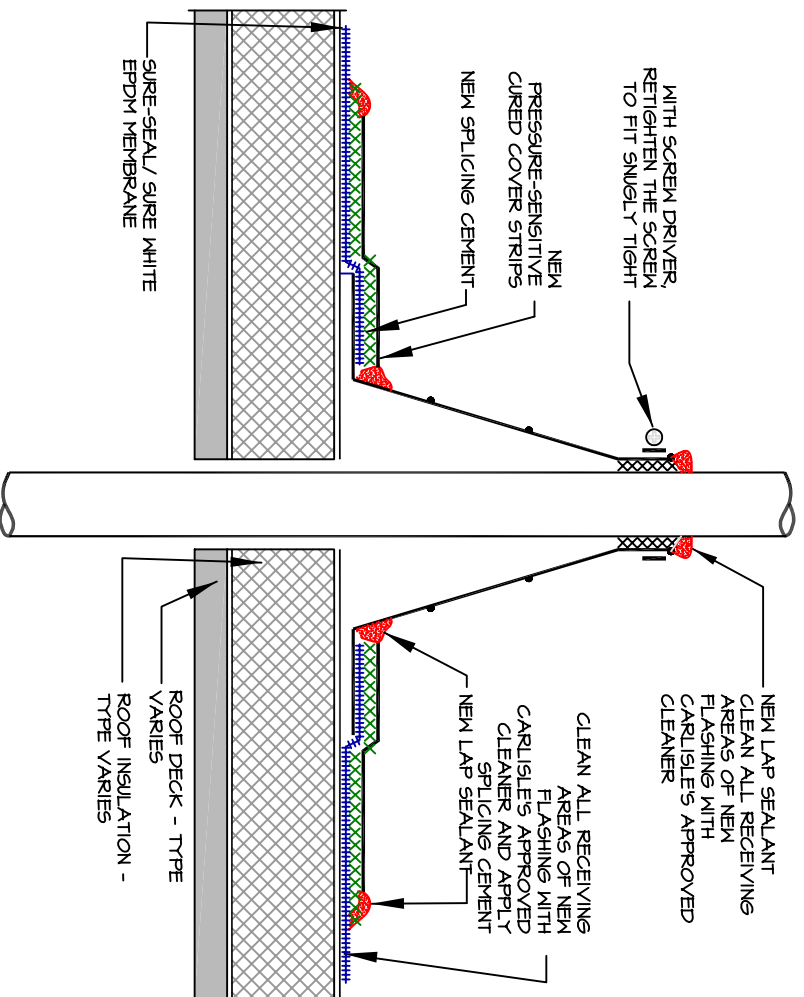


PREMOLDED FLASHING REPAIR # 1

FOR APPLICABLE
ADDITIONAL
INFORMATION SEE
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T1.2

LEGEND | 3.1

EPDM ROOF RESTORATION
DETAIL
E 7.1.1



NOTES:

1. ENSURE THE PIPE IS STRUCTURALLY SOUND AND IT IS NOT BOBBLING OR CAN BE PULLED OUT WITH GENTLE PRESSURE, FIELD VERIFY.
2. WHERE EXISTING PRE-MOLDED FLASHING IS DAMAGED ABOVE ROOF LINE, INSTALL NEW FIELD FABRICATED FLASHING AROUND A PIPE.
3. THOROUGHLY CLEAN DUST AND DIRT RESULTING FROM STANDING WATER.
4. REMOVE LOOSE STONE DEBRIS FROM INSIDE THE PIPE, WITH SHOP-VAC WHERE DEBRIS EXIST IN THE PIPE.

PREMOLDED FLASHING REPAIR # 2



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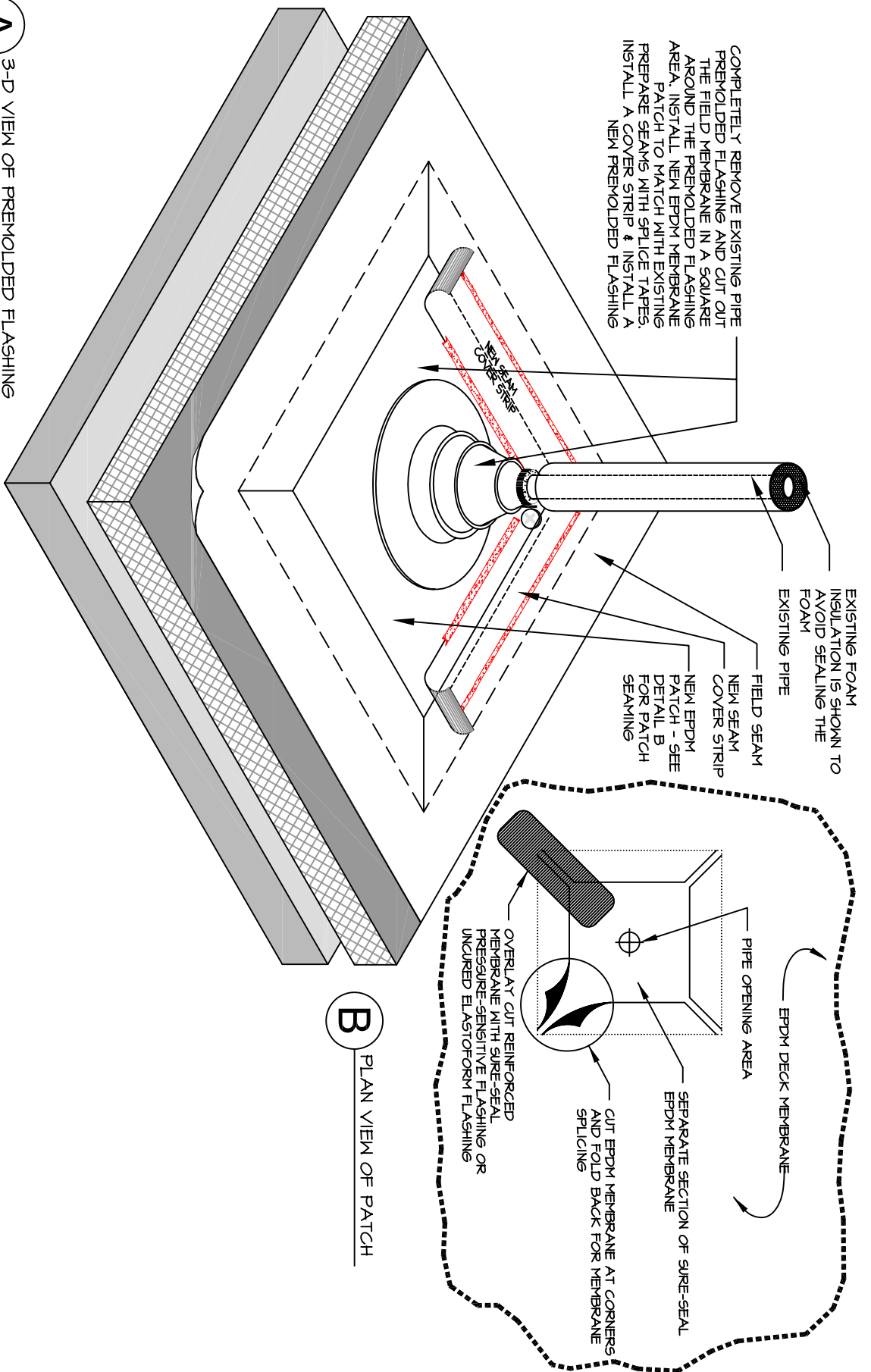
T.1.1

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EPDM ROOF RESTORATION
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COMPLETELY REMOVE EXISTING PIPE
PREMOLDED FLASHING AND CUT OUT
THE FIELD MEMBRANE IN A SQUARE
AROUND THE PREMOLDED FLASHING
AREA. INSTALL NEW EPDM MEMBRANE
PATCH TO MATCH WITH EXISTING
PREPARE SEAMS WITH SPLICE TAPES,
INSTALL A COVER STRIP & INSTALL A
NEW PREMOLDED FLASHING



A 3-D VIEW OF PREMOLDED FLASHING

B PLAN VIEW OF PATCH

PREMOLDED FLASHING REPAIR # 3

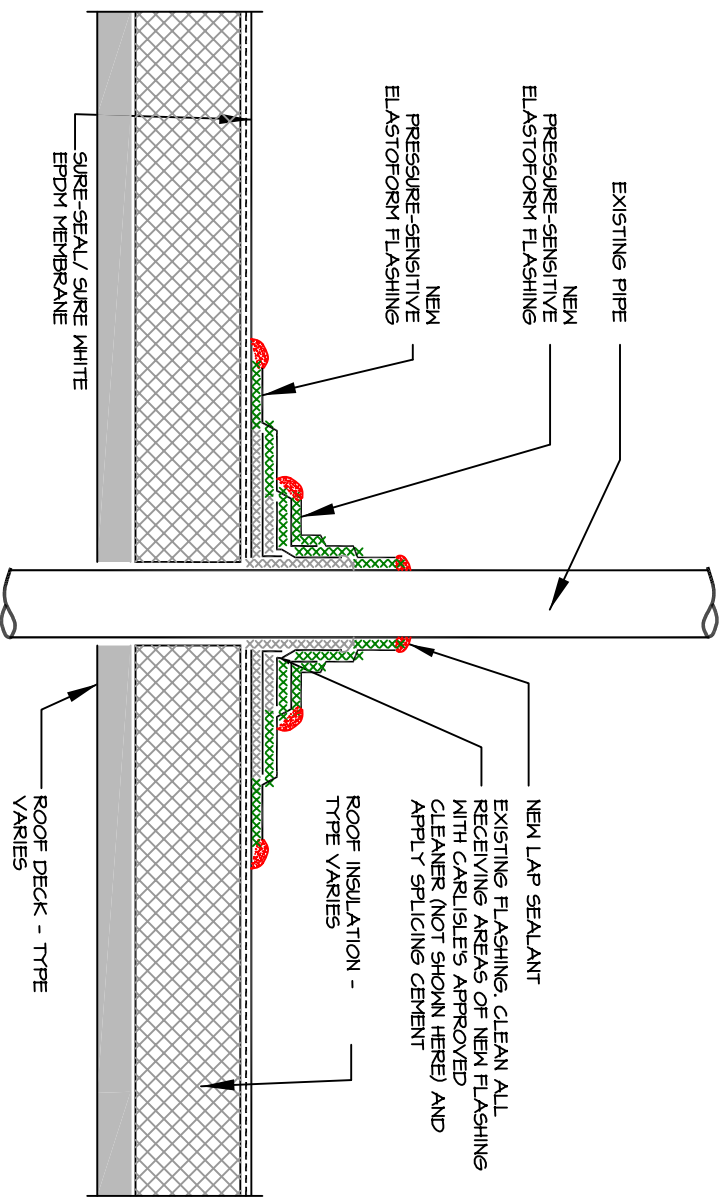


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- NOTES:
1. INSPECT THE STRUCTURAL INTEGRITY OF THE PIPE FOR LOOSE CONDITION PRIOR TO REFLASHING IT. COORDINATE WITH OWNER WHERE PIPE(S) ARE LOOSE.
 2. THOROUGHLY CLEAN THE EXISTING RECEIVING AREAS OF THE FLASHING WITH CARLISLE'S APPROVED CLEANER.
 3. APPLY HP-250 PRIMER.
 4. INSTALL NEW PRESSURE-SENSITIVE FLASHING.

RESTORATION OF FIELD FABRICATED FLASHING

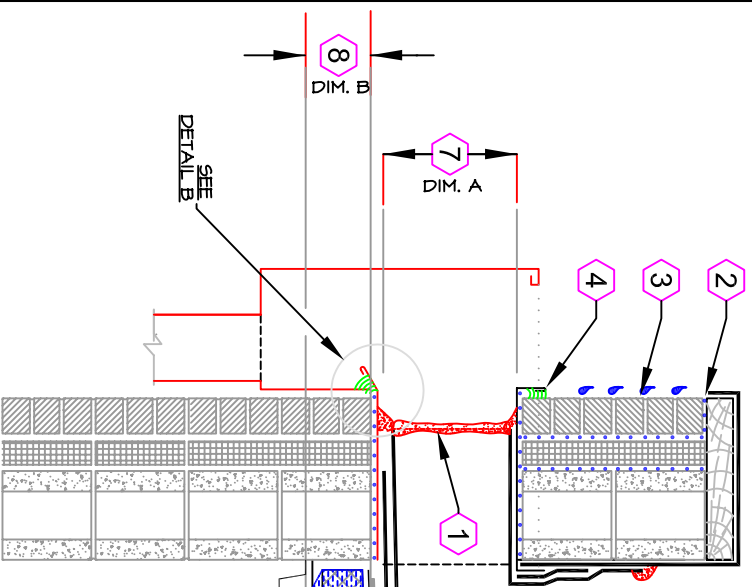


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EPDM ROOF RESTORATION
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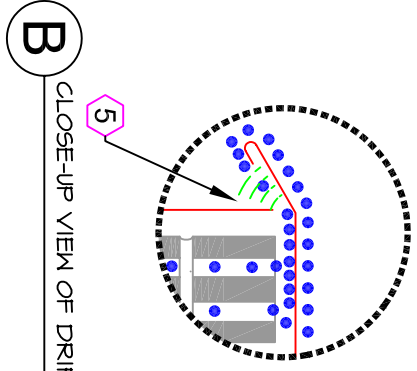
E 7.2.1



POSSIBLE ELEVATION OF STANDING WATER, IF DOWN SPOUT IS BLOCKED

NOTE: REFER TO NUMBERS IN HEXAGON WITH ARROWS.

1. LOOK FOR OPENING(S) BETWEEN FLEXIBLE MEMBRANE FLASHING AND SHEET METAL SCUPPER BOX. DUE TO LACK OF ATTACHMENT, PARTICULARLY AROUND INSIDE CORNERS, WATER CAN EASILY FLOW BACKWARD.
2. OPEN GAPS BETWEEN WOOD AND WALL BELOW MAY ALLOW ENTRY OF WIND DRIVEN RAIN. IN RESULT, WATER INTRUSION FROM MASONRY WALL ABOVE SCUPPER BOX MAY ALSO CAUSE MOISTURE ACCUMULATION ON THE TOP SURFACE OF SCUPPER BOX - MISLEADING THAT SCUPPER IS LEAKING.
3. MISSING MORTAR IN HEAD JOINTS OF BRICKS. ALTHOUGH IT IS A MINIMAL DEFICIENCY, BUT IN CASE ENTIRE WALL HAS MANY OPEN HEAD JOINTS AND MISSING MORTAR CONDITIONS IT WILL NOT ONLY AFFECT THE SCUPPER DETAIL BUT THE ENTIRE LENGTH OF WALL WILL CAUSE MOISTURE INTRUSION IN THE WALL SYSTEM OR POSSIBLY BELOW THE ROOF SYSTEM.



B CLOSE-UP VIEW OF DRIP EDGE DETAIL

A

SCUPPER ABOVE MASONRY CAVITY WALL

4. IF THIS SEALANT IS MISSING OR DEFICIENT DUE TO OPENINGS OR LACK OF SMOOTH SUBSTRATE, IT WILL IMMEDIATELY CAUSE WATER INTRUSION.
5. IF THIS SEALANT IS MISSING OR DEFICIENT DUE TO OPENINGS IT WILL CAUSE SUBSTANTIAL WATER INTRUSION, PARTICULARLY, IF WALL IS NOT A COMPOSITE MASONRY WALL (FOR INSTANCE, HOLLOW WALL CONDITIONS, E.G., STUD WALLS).
6. DUE TO CONTINUOUS LEAKS AROUND SCUPPER, IT IS VERY LIKELY TO FIND WET INSULATION AROUND OR IN THE VICINITY OF SCUPPER HOLE. FIELD VERIFY DURING WATER TEST.
7. DIM. A: ON SOME SCUPPERS THE VERTICAL DIMENSION IS BARELY A FEW INCHES. IT IS HARD TO FLASH PROPERLY WITH AN ADULT HAND, IF SCUPPER HOLE IS LEFT FOR FEW INCHES. MIN. VERTICAL HEIGHT SUGGESTED: 6 INCHES.
8. DIM. B (TOP OF DECK TO BOTTOM OF SCUPPER HOLE): THIS DIMENSION SHOULD BE LOW ENOUGH TO LET EXCESSIVE WATER DRAIN OFF THE ROOF IN CASE THE DRAINAGE SYSTEM IS BLOCKED IN THE DOWN SPOUT.
9. WATER PONDING AROUND THE SCUPPER HOLE IS VERY COMMON. LOOK FOR HIGHER WALL CONDITIONS. GENERALLY, WALLS ARE INADVERTENTLY BUILT HIGHER BY THE MASON OR NOT LOW ENOUGH TO ACCOMMODATE MANY LAYERS OF FLASHING, LEADING TO STANDING WATER AND OR LEAK CONDITIONS.

TROUBLESHOOTING AT SCUPPER ABOVE MASONRY CAVITY WALL

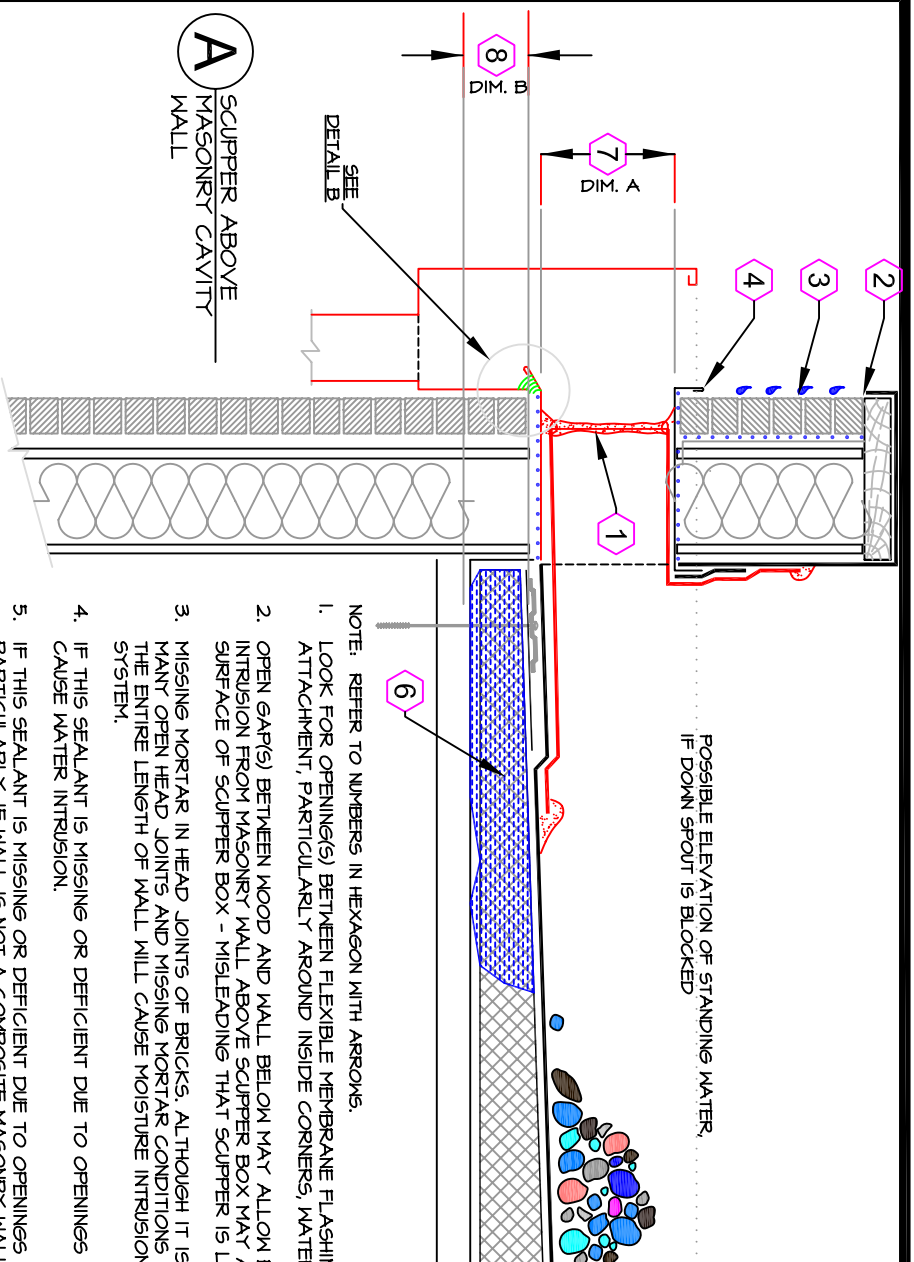


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EPDM ROOF RESTORATION DETAIL

E 8.1.1



A SCUPPER ABOVE MASONRY CAVITY WALL

B

CLOSE-UP VIEW OF DRIP EDGE DETAIL

10. AT STUD WALLS, VERIFY THE PRESENCE OF AIR/VAPOR BARRIER, PARTICULARLY IN THE NORTHERN COLD CLIMATES. IF DRAININGS ARE NOT AVAILABLE THEN WALL PROBE MAY HELP. ABSENCE OF VAPOR BARRIER MAY HAVE CAUSED LEAK OR MOLD CONDITIONS.
11. REPORT PRESENCE OF AN MOLD CONDITIONS ON THE WALLS.
12. AT STUD WALLS, VERIFY THE PRESENCE & CONDITIONS OF CRACKS IN THE FACE BRICK MASONRY TO FIND OUT LEAK CONDITIONS.

- NOTE: REFER TO NUMBERS IN HEXAGON WITH ARROWS.
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TROUBLESHOOTING AT SCUPPER ABOVE STUD WALL



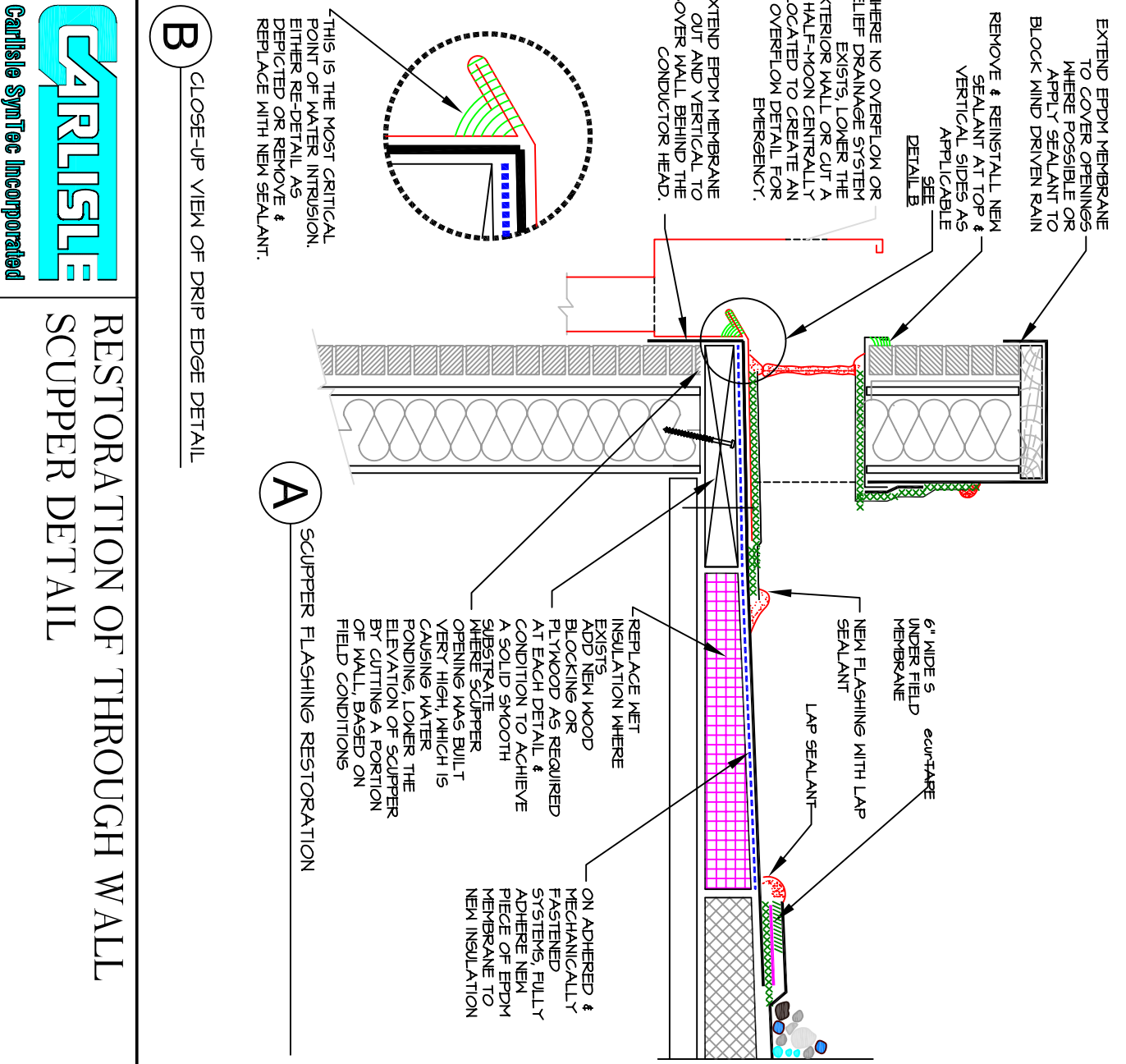
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EPDM ROOF RESTORATION DETAIL

E 8.1.2



EXTEND EPDM MEMBRANE TO COVER OPENINGS WHERE POSSIBLE OR APPLY SEALANT TO BLOCK WIND DRIVEN RAIN

REMOVE & REINSTALL NEW SEALANT AT TOP & VERTICAL SIDES AS APPLICABLE SEE DETAIL B

WHERE NO OVERFLOW OR RELIEF DRAINAGE SYSTEM EXISTS, LOWER THE EXTERIOR WALL OR CUT A HALF-MOON CENTRALLY LOCATED TO CREATE AN OVERFLOW DETAIL FOR EMERGENCY.

EXTEND EPDM MEMBRANE OUT AND VERTICAL TO COVER WALL BEHIND THE CONDUCTOR HEAD.

THIS IS THE MOST CRITICAL POINT OF WATER INTRUSION. EITHER RE-DETAIL AS DEPICTED OR REMOVE & REPLACE WITH NEW SEALANT.

B CLOSE-UP VIEW OF DRIP EDGE DETAIL

A SCUPPER FLASHING RESTORATION

REPLACE MET INSULATION WHERE EXISTS ADD NEW WOOD BLOCKING OR PLYWOOD AS REQUIRED AT EACH DETAIL & A SOLID SMOOTH SUBSTRATE WHERE SCUPPER OPENING WAS BUILT VERY HIGH WHICH IS CAUSING WATER PONDING, LOWER THE ELEVATION OF SCUPPER BY CUTTING A PORTION OF WALL, BASED ON FIELD CONDITIONS

NEW FLASHING WITH LAP SEALANT

LAP SEALANT

6" WIDE 5' UNDER FIELD MEMBRANE

scuffare

ON ADHERED & MECHANICALLY FASTENED SYSTEMS, FULLY ADHERE NEW PIECE OF EPDM MEMBRANE TO NEW INSULATION

NOTES:

1. THIS DETAIL IS A GUIDELINE DETAIL TO HELP CONSULTANT & ROOFER TO TAILOR THEIR DETAILS, AS FIELD CONDITIONS & DETAILS GENERALLY VARY AT DIFFERENT LOCATIONS.
2. THIS DETAIL MAY REQUIRE OTHER TRADES INVOLVEMENT (WHERE MASONRY WALLS/PRECAST PANELS, SIDINGS OR STUD WALLS EXIST) AND CONSULTANT MAY REQUIRE TO CUT AND LOWER THE ELEVATION OF SCUPPER OPENING.
3. WHERE PREVIOUS LEAKS WERE REPORTED PERFORM A WATER TEST AFTER COMPLETION OF THE DETAIL TO ENSURE LEAK HAS STOPPED.
4. REPLACE ANY BATT INSULATION IN THE WALL WHERE IT IS FOUND MET UNDER THE SCUPPER.
5. SEALANT MUST BE REPLACED PERIODICALLY AS REQUIRED BY THE SEALANT MANUFACTURER AS FAILURE OF SEALANT MAY CAUSE LEAKS AGAIN.
6. THIS DETAIL MAY APPLY AT OTHER WALL CONDITIONS ALSO.
7. TO EXTEND EPDM MEMBRANE AT PARAPET WALLS, IT MAY REQUIRE REMOVAL OF SHEET METAL COPING. CONSULTANT TO FIELD VERIFY EXISTING CONDITIONS TO CREATE A DETAIL TO ACHIEVE A WATER TIGHT CONDITION, WHERE REMOVAL OF SHEET METAL COPING IS BEYOND THE PROJECT COST.

RESTORATION OF THROUGH WALL SCUPPER DETAIL

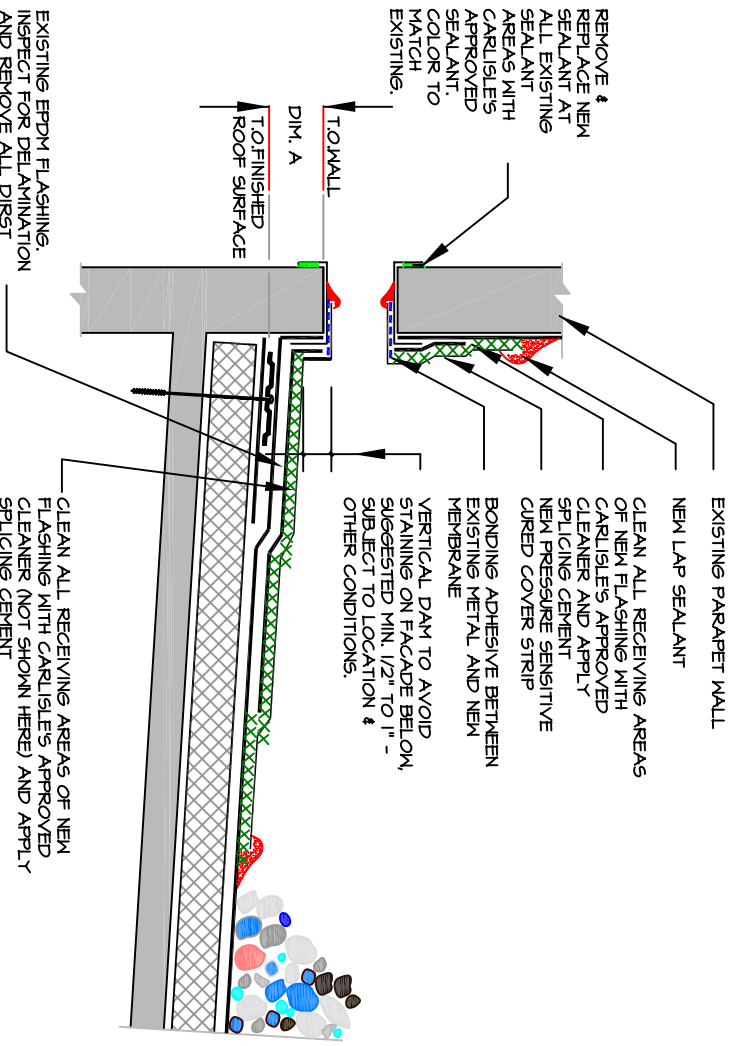


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EPDM ROOF RESTORATION
DETAIL
E 8.1.3



REMOVE & REPLACE NEW SEALANT AT ALL EXISTING SEALANT AREAS WITH CARLISLE'S APPROVED SEALANT. COLOR TO MATCH EXISTING.

EXISTING EPDM FLASHING, INSPECT FOR DELAMINATION AND REMOVE ALL DIRT, FROM THE SEAM AREAS, REATTACH THE LOOSE PORTIONS WITH NEW SPLICING CEMENT

CLEAN ALL RECEIVING AREAS OF NEW FLASHING WITH CARLISLE'S APPROVED CLEANER (NOT SHOWN HERE) AND APPLY SPLICING CEMENT

A OVERFLOW SCUPPER FLASHING RESTORATION

- NOTES:
- GRAVEL & STEEPER SLOPE IS DEPICTED ONLY FOR DETAIL REPRESENTATION. CONSULTANT TO CALCULATE THE LOCATIONS, HEIGHT AND FREQUENCY OF OVERFLOW SCUPPER PER THE BUILDING CODE AS WELL AS ENGINEERING CALCULATIONS.
 - PRIOR TO ANY WORK, COORDINATE WITH THE OWNER TO DISCOVER ANY LEAKS OR HISTORY OF LEAKS AT AREAS BELOW. IF LEAK(S) EXIST DO NOT INSTALL THIS FLASHING AND FIRST CONDUCT A THOROUGH INSPECTION TO VERIFY THE CAUSES OF LEAKS. INSTALLATION OF THIS DETAIL MAY WORSEN THE LEAKS IF EXISTING CONDITIONS ARE NOT COMPLETELY VERIFIED.
 - IF NO LEAKS EXIST, THEN INSPECT THE EXISTING CONDITIONS OF THE FLASHING AND LOOK FOR THE FOLLOWING ITEMS.
 - IDENTIFY THE TYPE OF SUBSTRATE WALL AND ITS CONSTRUCTION COMPOSITION.
 - UNDERSTAND THE EXISTING INSTALLATION DETAIL.
 - DIMENSIONS: IF DIMENSION "A" EXCEEDS 2 INCHES, OTHER TRADES SHOULD LOWER IT TO AVOID FUTURE DECK FAILURE UNDER HEAVY LOAD OF STANDING WATER. WHERE DIMENSION "A" IS ZERO OR FLAT SURFACE, RAISING OF EDGE WOULD BE REQUIRED TO AVOID STAINING ON FACADES FROM OZZING DUST WITH WATER.
 - VERIFY OVERALL SCUPPER'S OPENING TO BE AT LEAST 8" VERTICAL TO EASE THE FABRICATION OF FLASHING INSIDE THE SCUPPER HOLE. ENLARGE THE HOLE ONLY WHERE IT IS POSSIBLE WITHIN THE OWNER'S BUDGET OR WHERE IT IS DEEMED NECESSARY BY THE CONSULTANT.

- SEALANT MUST BE REPLACED ON THE EXTERIOR FLANGE. ENSURE SHEET METAL FLANGES ARE SET ON SMOOTH AND SOUND SUBSTRATE. WHERE ROUGH EXTERIOR SURFACES EXIST I.E., CORDUROY FINISH PRECAST OR SPLIT FACE CMU BLOCK EXCESSIVE CARE SHOULD BE TAKEN TO SEAL THE FLANGE TO AVOID WATER MIGRATION UNDER THE ROOF SYSTEM.
- WHERE NEW CONSTRUCTION IS ANTICIPATED, THERE DESIGNER TO ENSURE THAT DIMENSION A IS PROPERLY CALCULATED AND COORDINATED WITH OTHER TRADES, WHILE BUILDING WALLS TO ACHIEVE PROPERLY REQUIRED HEIGHT. EXCESSIVE HEIGHT WILL POSE DANGER TO DECK COLLAPSE.

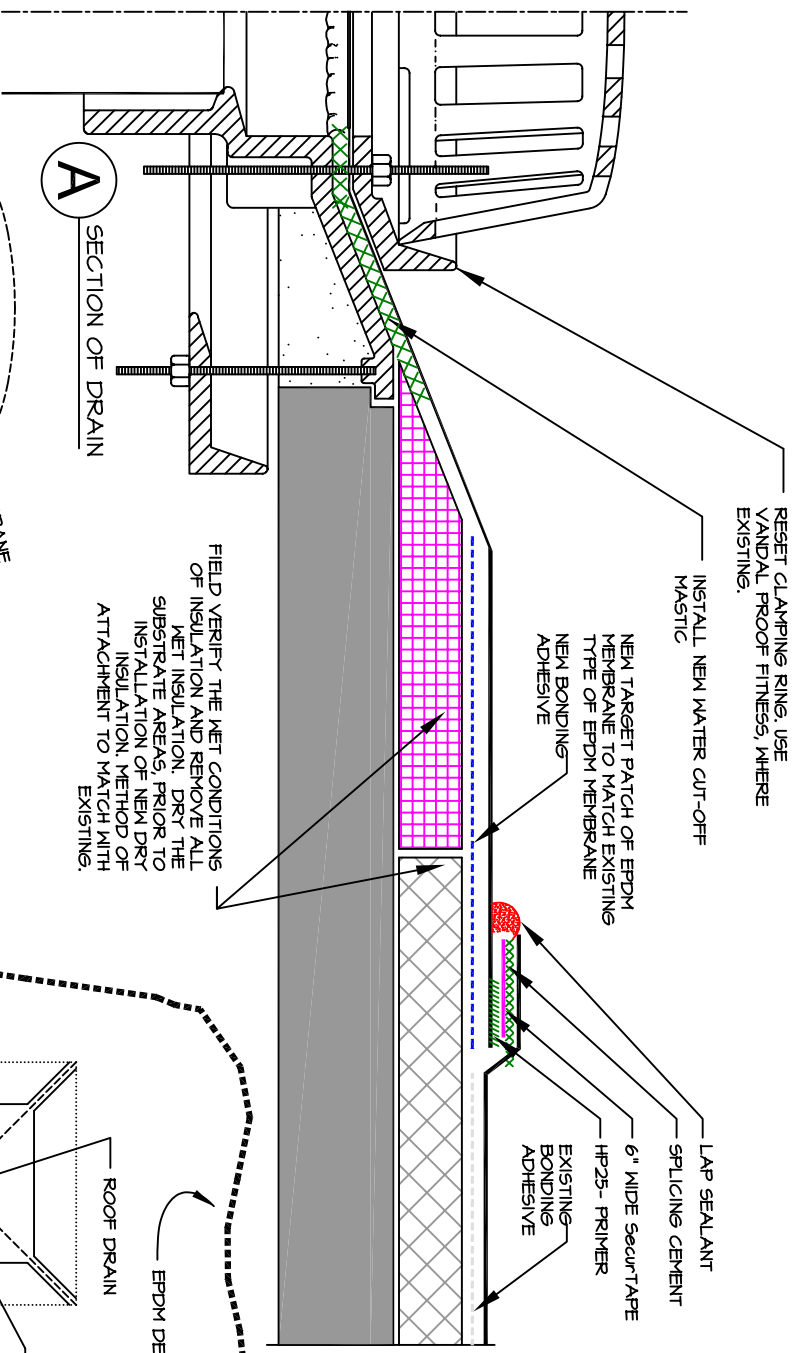
RESTORATION OF OVERFLOW SCUPPER DETAIL



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E 8.2.1



RESET CLAMPING RING, USE VANDAL PROOF FITNESS, WHERE EXISTING.

INSTALL NEW WATER CUT-OFF MASTIC

NEW TARGET PATCH OF EPDM MEMBRANE TO MATCH EXISTING TYPE OF EPDM MEMBRANE

NEW BONDING ADHESIVE

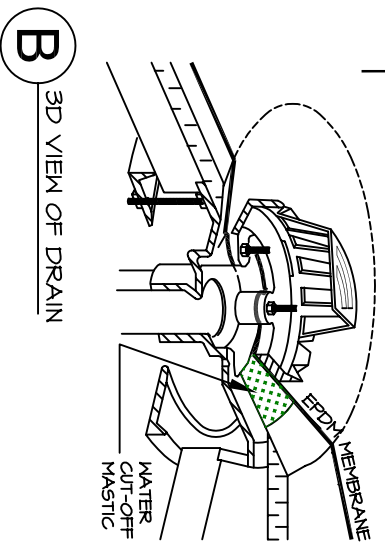
LAP SEALANT
SPlicing CEMENT

6" WIDE Secur-TAPE
HP25- PRIMER

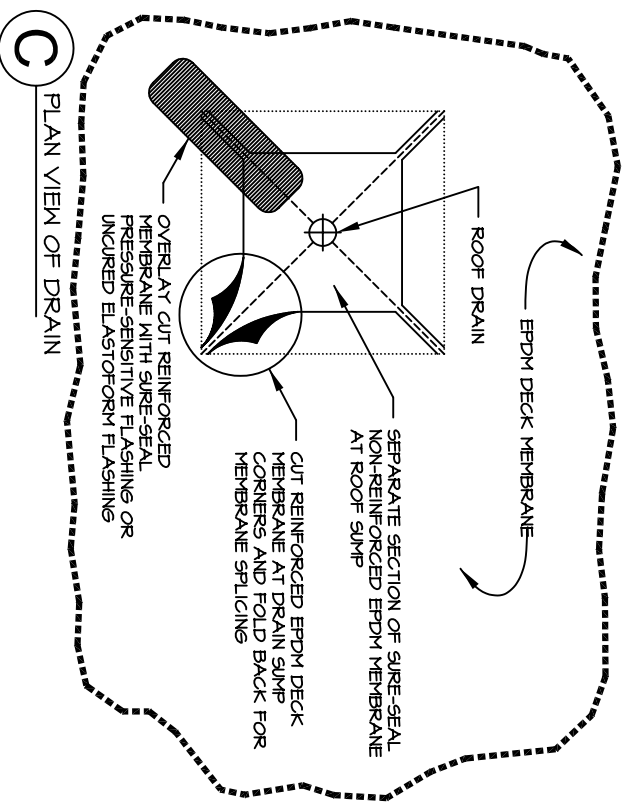
EXISTING BONDING ADHESIVE

FIELD VERIFY THE MET CONDITIONS OF INSULATION AND REMOVE ALL MET INSULATION. DRY THE SUBSTRATE AREAS, PRIOR TO INSTALLATION OF NEW DRY INSULATION. METHOD OF ATTACHMENT TO MATCH WITH EXISTING.

- NOTES:
1. ALL BOLTS OR CLAMPS MUST BE IN PLACE TO PROVIDE CONSTANT COMPRESSION ON WATER CUT-OFF MASTIC.
 2. CUT THE MEMBRANE SO IT EXTENDS A MINIMUM OF 1/2" FROM THE ATTACHMENT POINTS OF THE DRAIN CLAMPING RING.
 3. HOLE IN MEMBRANE MUST EXCEED SIZE OF DRAIN PIPE.
 4. INSULATION TAPER SHALL NOT BE STEEPER THAN 6" (VERTICAL) IN 12" (HORIZONTAL).
 5. FIELD SPLICES MUST BE LOCATED AT LEAST 6" OUTSIDE THE DRAIN SUMP.



B 3D VIEW OF DRAIN



C PLAN VIEW OF DRAIN

TYP. ROOF DRAIN FLASHING REPAIRS



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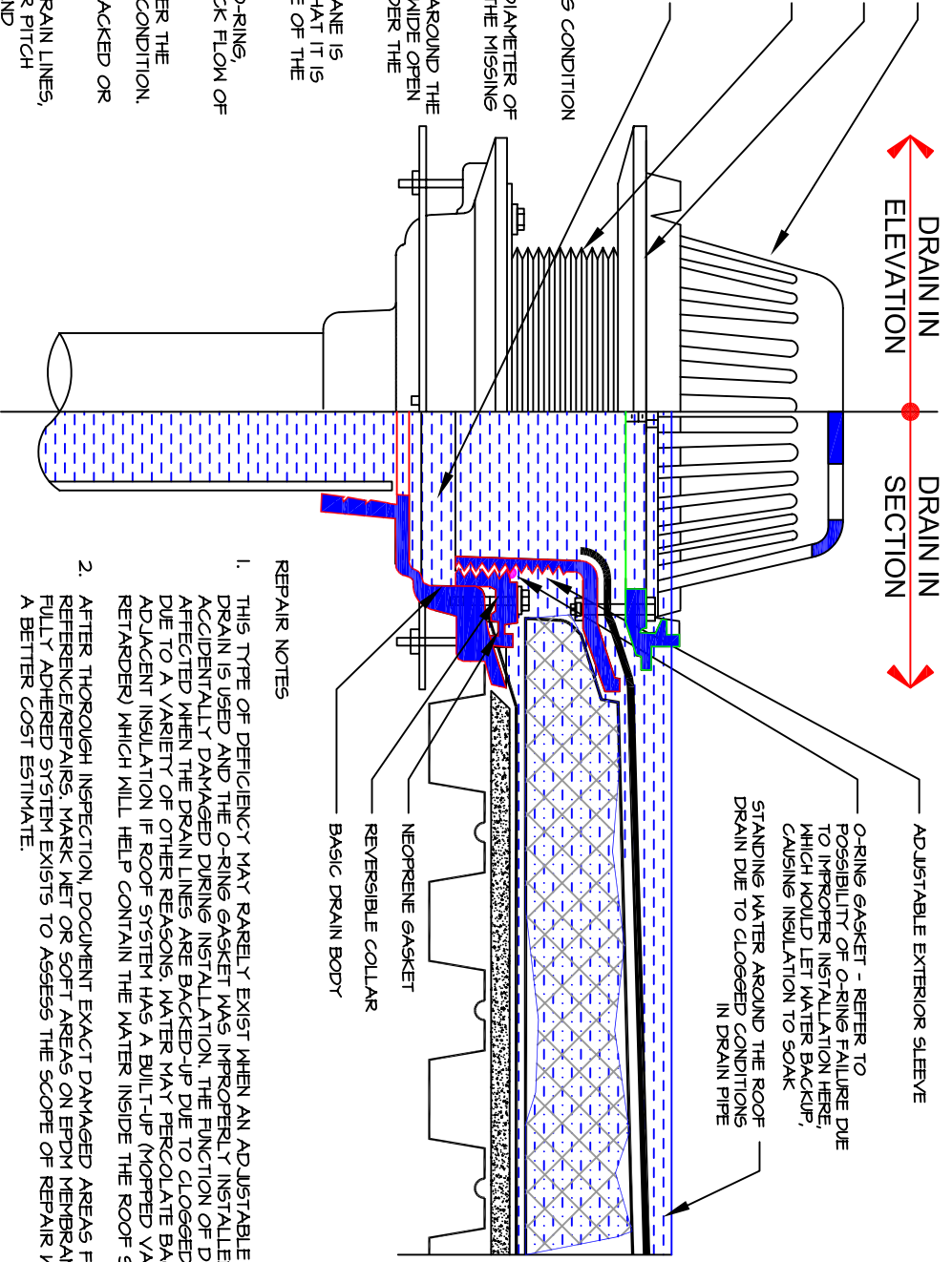
EPDM ROOF RESTORATION
DETAIL

E 8.3.1

EXISTING DRAIN DOME
 COMBINED CAST IRON
 FLASHING CLAMP AND
 GRAVEL STOP.
 ADJUSTABLE EXTERIOR
 SLEEVE
 WATER STANDING AROUND THE ROOF
 DRAIN POSSIBLY DUE TO CLOGGED
 DRAIN LINE IN RESULT OF COZING OF
 COAL TAR FROM PREVIOUS ROOFS OR
 OTHER OBSTRUCTIONS INSIDE THE PIPE

INSPECTION CHECKLIST TO VERIFY
 OVERALL VISUAL OBSERVATIONS:

1. RECORD MEMBRANE AND FLASHING CONDITION AROUND THE ROOF DRAIN.
2. CUT EPDM MEMBRANE TO MATCH DIAMETER OF EXISTING PLUMBING PIPE. VERIFY THE MISSING WATER CUT-OFF MASTIC.
3. FIELD VERIFY THAT HOLES MADE AROUND THE BOLT INSERTION POINTS ARE NOT WIDE OPEN OR CRACKED LEADING WATER UNDER THE MEMBRANE.
4. ENSURE THE HOLE IN EPDM MEMBRANE IS SUFFICIENT AND LARGE ENOUGH, THAT IT IS NOT SMALLER THAN OVERALL SIZE OF THE DRAIN PIPE.
5. LOOK FOR CRUSHED, DAMAGED O-RING, WHICH MAY HAVE CAUSED THE BACK FLOW OF WATER.
6. VERIFY IF NEOPRENE GASKET UNDER THE REVERSIBLE COLLAR IS IN GOOD CONDITION.
7. VERIFY IF DRAIN DOME IS NOT CRACKED OR BROKEN.
8. LOOK FOR POSSIBLY CLOGGED DRAIN LINES, MOST OFTEN FROM OLD COAL TAR PITCH RESTRICTING WATER FLOW CAUSING THE BACKUP OF WATER IN DRAIN LINE OR POSSIBLY DUE TO BLOCKAGE OF STORM SURFACE OR SUBSURFACE SYSTEM.
9. VERIFY, IF THE PARKING LOT OR ADJACENT AREAS DO NOT HOLD RAIN WATER, WHICH IS ONE OF THE SIGN FOR CLOGGED DRAIN LINE.
10. VERIFY STORM WATER DISCHARGE SYSTEM FUNCTIONS PROPERLY ALSO.



REPAIR NOTES

1. THIS TYPE OF DEFICIENCY MAY RARELY EXIST WHEN AN ADJUSTABLE HEIGHT DRAIN IS USED AND THE O-RING GASKET WAS IMPROPERLY INSTALLED OR ACCIDENTALLY DAMAGED DURING INSTALLATION. THE FUNCTION OF DRAIN IS AFFECTED WHEN THE DRAIN LINES ARE BACKED-UP DUE TO CLOGGED LINES OR DUE TO A VARIETY OF OTHER REASONS. WATER MAY PERCOLATE BACK INTO ADJACENT INSULATION IF ROOF SYSTEM HAS A BUILT-UP (MOPPED VAPOR RETARDER) WHICH WILL HELP CONTAIN THE WATER INSIDE THE ROOF SYSTEM.
2. AFTER THOROUGH INSPECTION, DOCUMENT EXACT DAMAGED AREAS FOR FUTURE REFERENCE/REPAIRS. MARK WET OR SOFT AREAS ON EPDM MEMBRANE WHERE FULLY ADHERED SYSTEM EXISTS TO ASSESS THE SCOPE OF REPAIR WORK AND A BETTER COST ESTIMATE.
3. IT WILL REQUIRE REMOVAL AND REPLACEMENT OF ENTIRE WET ROOF SYSTEM TO MATCH IN KIND.
4. REDESIGN NEW ROOF DRAIN DETAIL USING A REGULAR ROOF DRAIN IN LIEU OF ADJUSTABLE HEIGHT DRAIN AS EXISTING PROBLEM MAY OCCUR DUE TO SITE CONDITIONS. ADD REPLACEMENT INSULATION ON THE CEILING SIDE WHERE CONDITIONS PERMIT.
5. ENSURE DRAIN LINE IS RODED PROPERLY.



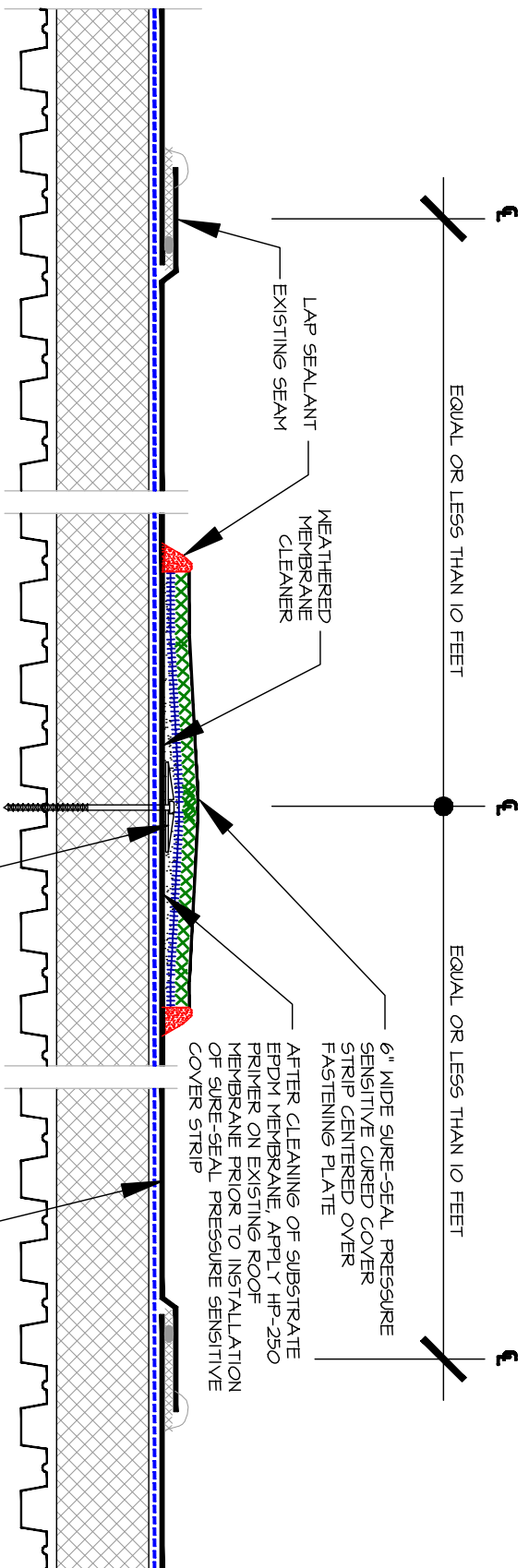
TROUBLESHOOTING FOR
 MOISTURE-LADEN INSULATION AT
 ADJUSTABLE HEIGHT ROOF DRAIN

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A FIELD MEMBRANE RE-FASTENING DETAIL

- NOTES:**
1. THIS DETAIL APPLIES AT FIELD MEMBRANE SECUREMENT, EQUAL DISTANCE BETWEEN TWO EXISTING SEAMS.
 2. INSTALL FASTENERS AT 12" O.C. IN A STRAIGHT LINE IN ORDER TO CENTRALLY ALIGN THE STRIPPING SEAM FOR PROPER COVERAGE.
 3. PRE-CLEAN THE STRIPPING AREA, PRIOR TO MARKING AND INSTALLATION OF FASTENERS TO REDUCE THE POSSIBILITY OF TRAPPED DEBRIS, ACCUMULATED DUST OR DIRT UNDER THE PLATES OR SEAMS. FOLLOW PROPER PROCEDURES OF SEAM CLEANING AFTER FASTENING.
 4. FIELD VERIFY THE DECK TYPE AND CONDITIONS, ENSURE THE FASTENER WITHDRAWAL RESISTANCE TEST IS CONDUCTED FOR CONSULTANT'S REVIEW, PRIOR TO THIS WORK, TO MAKE ANY ADJUSTMENTS.



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MEMBRANE FASTENING IN THE FIELD OF MEMBRANE

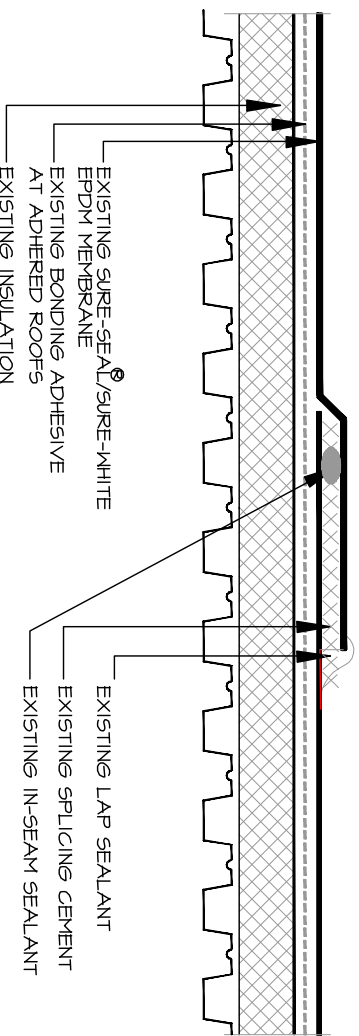
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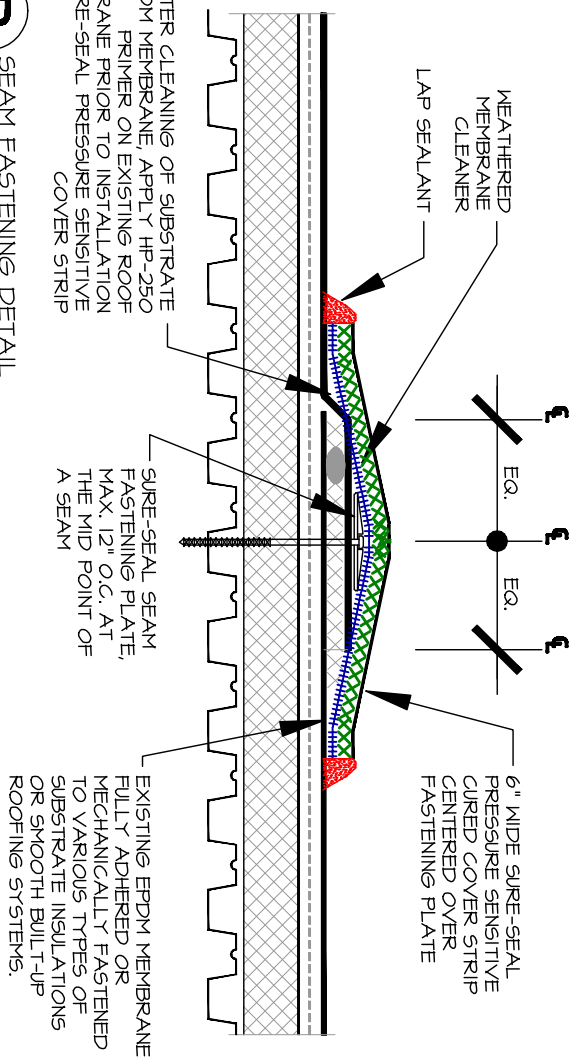
REVISED 12/06/2007 HP 250 PRIMER

EPDM ROOF RESTORATION DETAIL

E 9.1.1



A EXISTING SEAM: ORIGINAL CONSTRUCTION - ADHERED SYSTEM



B SEAM FASTENING DETAIL

AFTER CLEANING OF SUBSTRATE EPDM MEMBRANE APPLY HP-250 PRIMER ON EXISTING ROOF MEMBRANE PRIOR TO INSTALLATION OF SURE-SEAL PRESSURE SENSITIVE COVER STRIP

EXISTING EPDM MEMBRANE, FULLY ADHERED OR MECHANICALLY FASTENED TO VARIOUS TYPES OF SUBSTRATE INSULATIONS OR SMOOTH BUILT-UP ROOFING SYSTEMS.

NOTES:
1. THIS DETAIL APPLIES AT ALL THE SEAM SECUREMENT, PER CONSULTANT'S INSTRUCTIONS.

2. CONDUCT A FASTENER WITHDRAWAL RESISTANCE TEST TO RECORD THE TEST RESULTS. COORDINATE WITH THE CONSULTANT REGARDING TEST RESULTS. IN CASE THE CONSULTANT MAY REQUIRE FOR ANY ADJUSTMENTS. MIN. FIVE (5) TESTS SHOULD BE CONDUCTED AT EVERY 10,000 SQUARE FEET OR WHERE THE DECK TYPE, CONDITION AND OR SLOPE CHANGES.

3. INSTALL FASTENERS AT 12" O.C. IN A STRAIGHT LINE IN ORDER TO CENTRALLY ALIGN THE STRIPPING SEAM FOR PROPER COVERAGE.

4. THE EDGE OF THE PLATE MUST BE ALIGNED AT THE LEADING EDGE OF THE SEAM TO ALLOW FOR A MINIMUM 2" SPLICE PAST THE EDGE OF THE PLATES IN EVERY DIRECTION.

5. PRE-CLEAN THE STRIPPING AREA PRIOR TO MARKING AND INSTALLATION OF FASTENERS TO REDUCE THE POSSIBILITY OF TRAPPED DEBRIS, ACCUMULATED DUST OR DIRT UNDER THE SEAMS. FOLLOW PROPER PROCEDURES OF SEAM CLEANING AFTER FASTENING.



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MEMBRANE FASTENING AT MEMBRANE SEAMS

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