



ADDENDUM

PROJECT TITLE: Roof Rehabilitation Fire Station 7	ADD. NO: 3
TENDER NO: 2021-082702T	DATE: April 13, 2021
PAGE 1 of 2 (Including Confirmation Sheet)	

Make the following modifications to the above project. Include in the amount of the Tender, any additions to or deductions from the cost of the work by reason of these instructions.

Sign and attach this Addendum to the Tender documents and submit with your Tender. Failure to do so may result in the rejection of your Tender.

Please find attached addendum number 3 from the engineering firm.

SIGN AND RETURN THIS ADDENDUM WITH YOUR PROPOSAL

Monic MacVicar

Monic MacVicar, CCLP, CPPB
Procurement Specialist
Supply Chain Management

Contractor's Signature



ADDENDUM

PROJECT TITLE: Roof Rehabilitation Fire Station 7	ADD. NO: 3
TENDER NO: 2021-082702T	DATE: April 13, 2021
PAGE 2 of 2 (Including Confirmation Sheet)	

CONFIRMATION - RECEIPT OF ADDENDUM

**Upon receipt of this document, fax this page to
(506) 658-4742 to confirm receipt of this addendum.**

CONTRACTOR'S NAME: _____

ADDRESS: _____

PHONE: _____ FAX: _____

RECEIVER NAME (PRINT) _____

RECEIVER SIGNATURE: _____



Addendum No.3

QSF-7-090 R-07 DEC01/12

Project:	2021 Roof Rehabilitation Program	Page No:	1 of 7
Facility:	Fire Station #7	Date:	April 13, 2021
Address:	41 Manchester Avenue Saint John, New Brunswick, E2M 5T2	IRC Ref. No:	NR21-002SP-23936
		Client Ref. No:	

All Bidders are hereby notified of the following changes and clarifications to the Bid Documents made by this Addendum, issued by IRC Group prior to Bid Closing. Acknowledge receipt of this Addendum on Bid Form where indicated and submit signed copy of last page in Bid.

CHANGE OF SCOPE – SECTION 01 11 00 - SUMMARY OF WORK

Under 1.4 Bid Pricing, .2, .1, **remove Roof Area 1.1** from Low Slope Roof Membrane Recover.

Following this section, add: Low Slope Roof Replacement: Lump Sum Price to perform specified new roof replacement work over existing prepared vapour retarder on Roof Areas 1.1 with a two (2) ply modified bitumen membrane system and a ten (10) year System Warranty, to Section 07 52 16.

- .1 Allow for repair and localized replacement of damaged existing deck overlay board and vapour retarder in Bid Price on ten percent (10%) of roof area. Cut out wet, damaged, or deteriorated sections of existing deck overlay board and vapour retarder, and replace with new compatible materials as specified.

Under 1.11 Scope of Work: Low Slope Roof Recover, .1, **remove Roof Area 1.1** from this section.

CHANGE OF SCOPE – SECTION 07 52 16 – SBS MODIFIED BITUMENOUS MEMBRANE ROOFING

Under PART 1 – GENERAL, 1.1, .2, .1, **remove roof area 1.1**.

Following this section, add:

- .2 On Roof Areas 1.1:
 - .2 Existing metal roof deck,
 - .3 Existing gypsum overlay board,
 - .4 Existing vapour retarder,
 - .5 1 ply SBS & woven polyethylene vapour retarder field membrane, self-adhered,
 - .6 1 ply modified bitumen vapour retarder tie-in flashings, self-adhered,
 - .7 76mm (3.0") polyisocyanurate, base insulation, in adhesive,
 - .8 76mm (3.0") polyisocyanurate, overlay insulation, in adhesive,
 - .9 7.0mm (9/32") 2-1 Soprasmart Board (with laminated base sheet), in adhesive,
OR 6mm (0.25") siliconized gypsum board (and self-adhered base sheet), in adhesive,
OR 6mm (0.25") asphaltic roof board (and self-adhered base sheet), in adhesive,
 - .10 1 ply modified bitumen base sheet flashings, self-adhered,
 - .11 1 ply granular modified bitumen cap sheet field membrane, torch applied,
 - .12 1 ply granular modified bitumen cap sheet flashings, torch applied,
 - .13 Prefinished metal flashings and trim.



Project:	2021 Roof Rehabilitation Program	Page No:	2 of 7
Facility:	Fire Station #7	Date:	April 13, 2021
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Under PART 2 – Products, after section 2.3 Roofing Board Adhesives, add,

1.2 DECK BOARD RESTORATION: GYPSUM ROOF BOARD

- .1 Deck Board: Dimensionally stable, fire resistant, gypsum based roof board with treated core for moisture and mould resistance; size no larger than 1.22m x 2.44m (4'x8').
 - .1 Glass-Mat Faced: Siliconized gypsum roof board with factory laminated glass-mat facer meeting ASTM C 1177. Boards with factory applied primer preferred.
 - .1 DensDeck Prime with EONIC technology by Georgia-Pacific Canada LP,
 - .2 DEXcell FA Glass Mat Roof Board by National Gypsum (JM).
 - .2 OR Unfaced, Fibre Reinforced: Gypsum roof board with homogenous composition reinforced with cellulose fibres meeting ASTM C 1278.
 - .1 CGC Securock Gypsum-Fibre Roof Board by CGC Inc.,
 - .2 Securock Gypsum-Fibre Roof Board by USG.
 - .3 Filler overlay board thickness to match existing deck board.

1.3 VAPOUR RETARDER RESTORATION: SELF-ADHERED MODIFIED BITUMEN

- .1 Vapour Retarder Field Membrane:
 - .1 Self-adhered grade modified bitumen, minimum 1.5mm (60 mil) thick, with minimum 85g/m² non-woven polyester scrim, random glass fibre mat or composite reinforcement, impregnated and coated with SBS modified bitumen, and conforming to CSA A123.23-15. Top surface lightly sanded and self-adhesive bitumen bottom surface covered with polyolefin or silicone release film.
 - .1 DynaGrip SD/SA by Johns Manville,
 - .2 Paradiene 20 SA by Siplast,
 - .3 Sopraflash Stick Duo by Soprema (Application 0°C),
 - .4 SBS Glass SA Base by Tradesman.
- .2 Vapour Retarder Flashings:
 - .1 Self-adhered grade modified bitumen, minimum 1.5mm (60 mil) thick, with minimum 85g/m² non-woven polyester scrim, random glass fibre mat, or composite reinforcement, impregnated and coated with SBS modified bitumen, and conforming to CSA A123.23-15. Top surface lightly sanded and self-adhesive bitumen bottom surface covered with polyolefin or silicone release film.



Project:	2021 Roof Rehabilitation Program	Page No:	3 of 7
Facility:	Fire Station #7	Date:	April 13, 2021
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- .1 DynaGrip SD/SA by Johns Manville,
- .2 Paradiene 20 SA by Siplast,
- .3 Sopraflash Stick Duo by Soprema (Application 0°C),
- .4 SBS Glass SA Base by Tradesman.

1.4 VAPOUR RETARDER: 1 PLY SELF-ADHERED MODIFIED BITUMEN

- .1 Vapour Retarder Field Membrane:
 - .1 Self-adhered grade modified bitumen, minimum 1.5mm (60 mil) thick, with minimum 85g/m² non-woven polyester scrim, random glass fibre mat or composite reinforcement, impregnated and coated with SBS modified bitumen, and conforming to CSA A123.23-15. Top surface lightly sanded and self-adhesive bitumen bottom surface covered with polyolefin or silicone release film.
 - .1 DynaGrip SD/SA by Johns Manville,
 - .2 Paradiene 20 SA by Siplast,
 - .3 Sopraflash Stick Duo by Soprema (Application 0°C),
 - .4 SBS Glass SA Base by Tradesman.
 - .2 Vapour Retarder and Tie-in Flashings:
 - .1 Self-adhered grade modified bitumen, minimum 1.5mm (60 mil) thick, with minimum 85g/m² non-woven polyester scrim, random glass fibre mat, or composite reinforcement, impregnated and coated with SBS modified bitumen, and conforming to CSA A123.23-15. Top surface lightly sanded and self-adhesive bitumen bottom surface covered with polyolefin or silicone release film.
 - .1 DynaGrip SD/SA by Johns Manville,
 - .2 Paradiene 20 SA by Siplast,
 - .3 Sopraflash Stick Duo by Soprema (Application 0°C),
 - .4 SBS Glass SA Base by Tradesman.

1.5 BASE INSULATION: CGF POLYISOCYANURATE

- .1 Base Insulation Type: Closed-cell polyisocyanurate foam rigid insulation boards to ASTM C1289 Type II, Class 1, 2, or 3, Grade 2, manufactured with HCFC-free blowing agent (Pentane) bonded to inorganic coated glass facers on top and bottom surfaces during manufacturing process:
 - .1 Approved and listed for use with Noncombustible and FM Class 1 rated insulated roof assemblies to FM Standard 4450 on Insulated Steel Deck Roofs and FM Standard 4470 on Roof Covers for durability, wind uplift, and fire resistance.



Addendum No.3

QSF-7-090 R-07 DEC01/12

Project:	2021 Roof Rehabilitation Program	Page No:	4 of 7
Facility:	Fire Station #7	Date:	April 13, 2021
Address:	41 Manchester Avenue Saint John, New Brunswick, E2M 5T2	IRC Ref. No:	NR21-002SP-23936
		Client Ref. No:	

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- .2 Meet physical property requirements of ASTM C1289 and CAN/ULC S704.
- .3 Compressive strength: Min. 138 kPa (20 psi) to ASTM C1621, Grade 2.
- .4 Dimensional stability change of less than 2% conforming to ASTM D2126.
- .5 Conformity to CAN/ULC S704 and Can/ULC S770 for Long Term Thermal Resistance (LTTR) in polyisocyanurate insulation.
- .6 Acceptable Products:
 - .1 ACFoam III polyisocyanurate by Atlas Roofing Corp.,
 - .2 Engry 3 CGF polyisocyanurate by Johns Manville,
 - .3 Paratherm CG polyisocyanurate by Siplast,
 - .4 Sopra-ISO Plus polyisocyanurate by Soprema.

- .1 Base Insulation Thickness:
 - .1 On Roof Areas 1.1: Continuous flat layer of polyisocyanurate insulation boards 76mm (3.0") in thickness, with butt lapped joints.
- .2 Base Insulation Panel Size:
 - .1 Tapered Panels: Maximum 1.22m x 1.22m (4' x 4') regardless of attachment method.
 - .2 Flat Panels: Maximum 1.22m x 1.22m (4' x 4') when adhered to substrate.
- .3 Tapered Insulation Supply:
 - .1 All tapered insulation panels, drain sumps, and crickets to be factory cut and mitred to suit layout. Individual panels to be clearly labeled for easy identification and assembly.
 - .2 Submit shop drawings to Consultant for review prior to prefabrication and shipping.

1.6 OVERLAY INSULATION: CGF POLYISOCYANURATE

- .1 Overlay Insulation Type: Closed-cell polyisocyanurate foam rigid insulation boards to ASTM C1289 Type II, Class 1, 2, or 3, Grade 2, manufactured with HCFC-free blowing agent (Pentane) bonded to inorganic coated glass facers on top and bottom surfaces during manufacturing process:



Addendum No.3

QSF-7-090 R-07 DEC01/12

Project:	2021 Roof Rehabilitation Program	Page No:	5 of 7
Facility:	Fire Station #7	Date:	April 13, 2021
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- .1 Approved and listed for use with Noncombustible and FM Class 1 rated insulated roof assemblies to FM Standard 4450 on Insulated Steel Deck Roofs and FM Standard 4470 on Roof Covers for durability, wind uplift, and fire resistance.
- .2 Meet physical property requirements of ASTM C 289 and CAN/ULC S704.
- .3 Compressive strength: Min. 138 kPa (20 psi) to ASTM C1621, Grade 2.
- .4 Dimensional stability change of less than 2% conforming to ASTM D2126.
- .5 Conformity to CAN/ULC S704 and Can/ULC S770 for Long Term Thermal Resistance (LTTR) in polyisocyanurate insulation.
- .6 Acceptable Products:
 - .1 ACFoam III polyisocyanurate by Atlas Roofing Corp.,
 - .2 Engry 3 CGF polyisocyanurate by Johns Manville,
 - .3 Paratherm CG polyisocyanurate by Siplast,
 - .4 Sopra-ISO Plus polyisocyanurate by Soprema.
- .2 Overlay Insulation Thickness:
 - .1 On Roof Areas 1.1: Continuous flat layer of polyisocyanurate insulation boards 76mm (3.0") in thickness, with butt lapped joints.
- .3 Base Insulation Panel Size:
 - .1 Tapered Panels: Maximum 1.22m x 1.22m (4' x 4') regardless of attachment method.
 - .2 Flat Panels: Maximum 1.22m x 1.22m (4' x 4') when adhered to substrate.
- .4 Tapered Drainage Sumps: Tapered closed-cell polyisocyanurate foam rigid insulation boards with to inorganic coated glass facers.
 - .1 At Roof Drains: Delete section of overlay insulation to accommodate tapered sump:
 - .1 On Roof Areas 1.1: Size to be 2.44m x 2.44m (8' x 8') and tapered from 76mm (3.0") at outer edge down 2% to a 610mm x 610mm (2' x 2') central flat area 57mm (2.25") thick.
- .5 Tapered Insulation Supply:



IRC Building Sciences Group

69 Maple Avenue
New Glasgow, Nova Scotia, B2H 2B3
Tel: 902.695.5549, Fax: 902.695.5479
Toll Free: 1.888.607.5245

Addendum No.3

QSF-7-090 R-07 DEC01/12

Project:	2021 Roof Rehabilitation Program	Page No:	6 of 7
Facility:	Fire Station #7	Date:	April 13, 2021
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- .1 All tapered insulation panels, drain sumps, and crickets to be factory cut and mitred to suit layout. Individual panels to be clearly labeled for easy identification and assembly.
- .2 Submit shop drawings to Consultant for review prior to prefabrication and shipping.

1.7 COVER BOARD

- .1 Gypsum Cover Board: Dimensionally stable, fire resistant, gypsum based roof board with treated core for moisture and mould resistance; size no larger than 1.22m x 2.44m (4' x 8'):
 - .1 Glass-Mat Faced: Siliconized gypsum roof board with factory laminated glass-mat facer meeting ASTM C 1177. Boards with factory applied primer preferred.
 - .1 6mm (1/4") DensDeck Prime with EONIC technology by Georgia-Pacific,
 - .2 6mm (1/4") DEXcell FA Glass Mat Roof Board by National Gypsum (JM).
 - .2 OR Unfaced, Fibre Reinforced: Gypsum roof board with homogenous composition reinforced with cellulose fibres meeting ASTM C 1278.
 - .1 6mm (1/4") CGC Securock Gypsum-Fibre Roof Board by CGC Inc.,
 - .2 6mm (1/4") Securock Gypsum-Fibre Roof Board by USG.
- .2 OR Asphaltic Cover Board: Dimensionally stable, laminated board, max size 1.2m x 2.4m (4'x8'):
 - .1 Multi-ply, semi-rigid asphaltic roofing recovery board composed of a mineral fortified asphaltic core formed between two asphaltic saturated fibreglass liners.
 - .1 6.4mm (1/4") Protectoboard by IKO,
 - .2 6.4mm (1/4") Sopraboard by Soprema.
 - .3 OR Base Sheet Laminated Asphaltic Board:
 - .1 4.8mm (3/16") thick multi-ply, semi-rigid asphaltic roofing recovery board composed of a mineral fortified asphaltic core formed between two asphaltic saturated fibreglass liners with 2.2mm (3/32") factory laminated non-woven polyester reinforced SBS modified bitumen base sheet membrane conforming to CSA A123.23-15. Panel boards to have a membrane duo selvedge edge width of 89mm (3.5") for overlapping onto next board.
 - .1 7.0mm (9/32") 2-1 Soprasmart Board by Soprema.
 - .2 Laminated Asphaltic Board Size: Flat panels, max. size 0.91m x 2.44m (3' x 8').
 - .3 Laminated Asphaltic Board Surface: Thermofusible polyolefin film top surface.



IRC Building Sciences Group

69 Maple Avenue
New Glasgow, Nova Scotia, B2H 2B3
Tel: 902.695.5549, Fax: 902.695.5479
Toll Free: 1.888.607.5245

Addendum No.3

QSF-7-090 R-07 DEC01/12

Project:	2021 Roof Rehabilitation Program	Page No:	7 of 7
Facility:	Fire Station #7	Date:	April 13, 2021
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- .4 Cover Strips For Base Sheet Laminated Panels: At insulation panel end joints, 330mm (13.0") wide strips of 2.5mm (3/32") thick base sheet membrane with composite reinforcement, impregnated and coated with SBS modified bitumen, and conforming to CSA A123.23-15.
 - .1 Self-adhered Application: Top surface to be lightly sanded with bottom surface covered with silicone release film; SopraLap Stick by Soprema.
 - .2 Heat Welded Application: Top surface and bottom surface covered with thermofusible polyfilm; SopraLap by Soprema.

DRAWING AND BID FORM UPDATE

See attached new details to replace membrane retrofit details for roof section 1.1 and new "Appendix C" to replace existing.

End of Addendum No. 3

Contractor Accepted:	Name:	Signature:	Organization:	Date:

APPENDIX “C” – STIPULATED PRICE BREAKDOWN

Project Title: 2021 Roof Rehabilitation Program

Worksite: Fire Station #7

Address: 41 Manchester Avenue, Saint John, New Brunswick, E2M 5T2

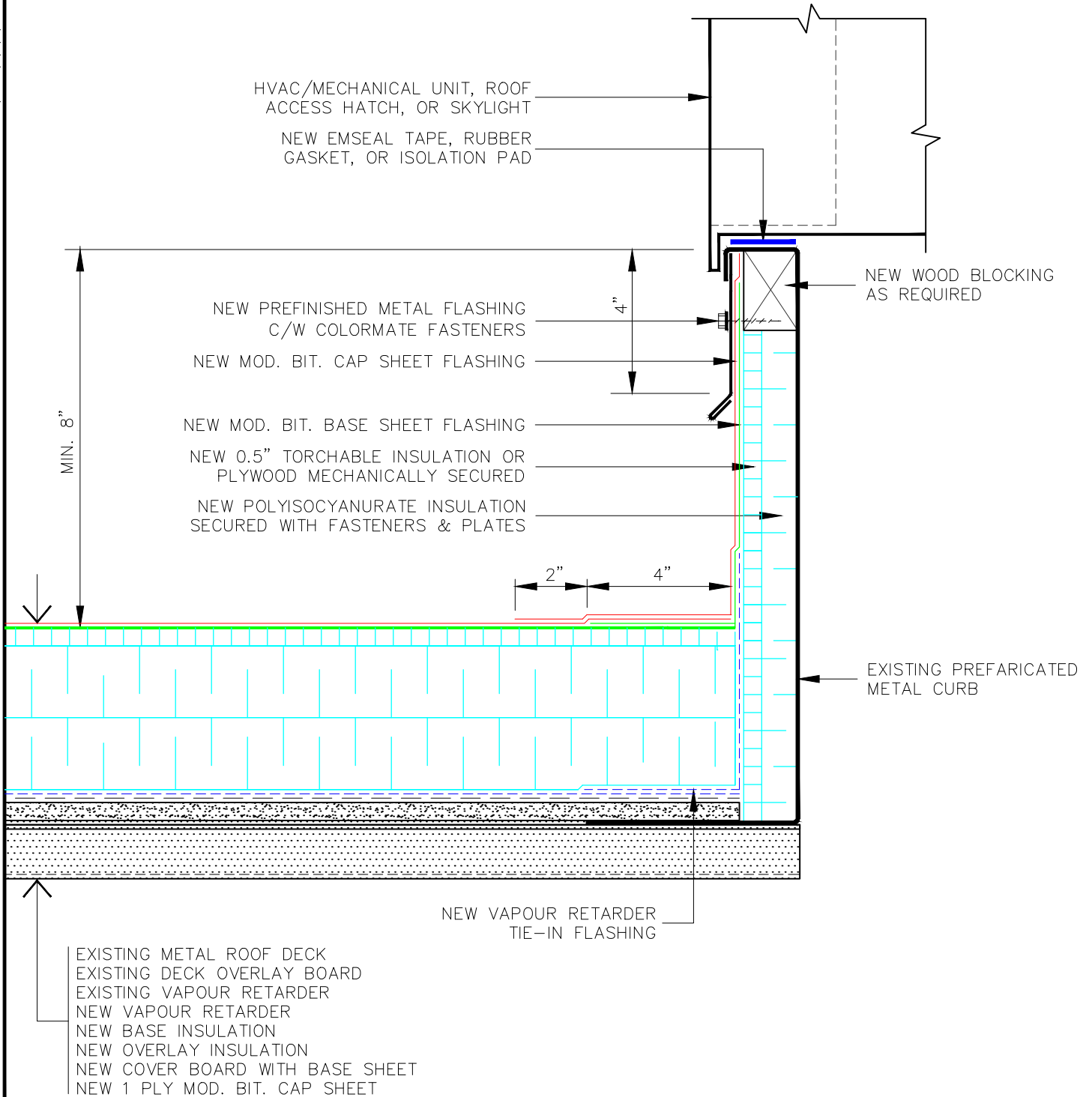
Submitted By:

The following itemized list is a breakdown of our Stipulated Price to perform the Work. The itemized prices quoted include the specified cost, overhead, profit, and any applicable taxes in force at the date of Bid with the exception of the Harmonized Sales Tax (HST). The HST is shown as a separate line item.

Item No.	Description of Work	Estimated Quantity	Unit Rate	Contractor's Total Bid
1.0	Roof Recover – Low Slope:			
1.1	Roof Recover Work specified for Roof Areas 2.1 & 3.1:	Lump Sum	N/A	\$ _____
1.2	Roof Replacement Work specified for Roof Areas 1.1:	Lump Sum	N/A	\$ _____
2.0	Stipulated Price:			
2.1	Subtotal (Total of Itemized Bid Prices Above):		\$	_____
2.2	Harmonized Sales Tax (HST):		\$	_____
2.3	Total Stipulated Price (Item 2.1 + 2.2, Copied to Page One):		\$	_____

Notes:

- At Owner's discretion, the Scope of Work may be altered to suit Owner's requirements.
- If required by Owner, successful Bidder should be prepared to submit a further price breakdown of identified items.
- ALL quantities and measurements to be confirmed by Contractor to own satisfaction from on-site take-offs.
- Costs above include provision and co-ordination of all locates to determine location of all services necessary to perform work.



TITLE: **PREFABRICATED CURB**

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REVISED:

REV'N.#:

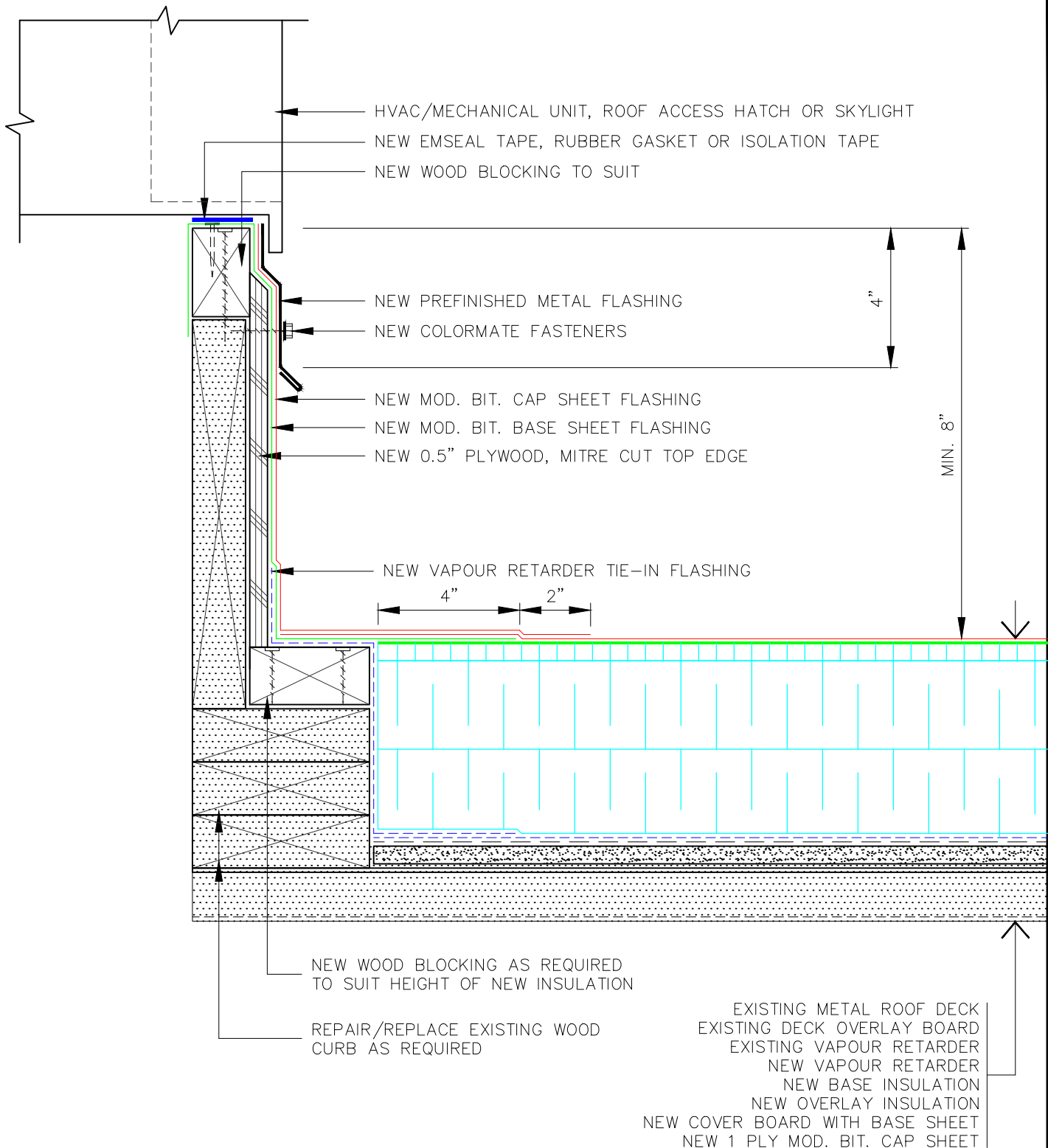
DRN. BY: J.L.

CHK. BY: A.J.D./M.A.M.

SCALE: 3" = 1'-0"

DATE: 29 JAN. 2021

DWG.#: CMM383



TITLE: BUILT-UP CURB DETAIL

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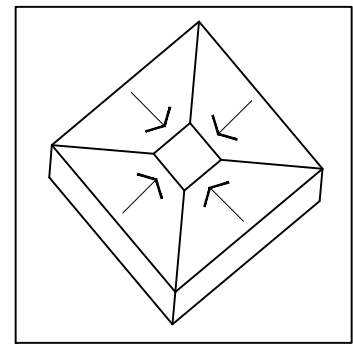
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SCALE: 3" = 1'-0"

DATE: 29 JAN. 2021

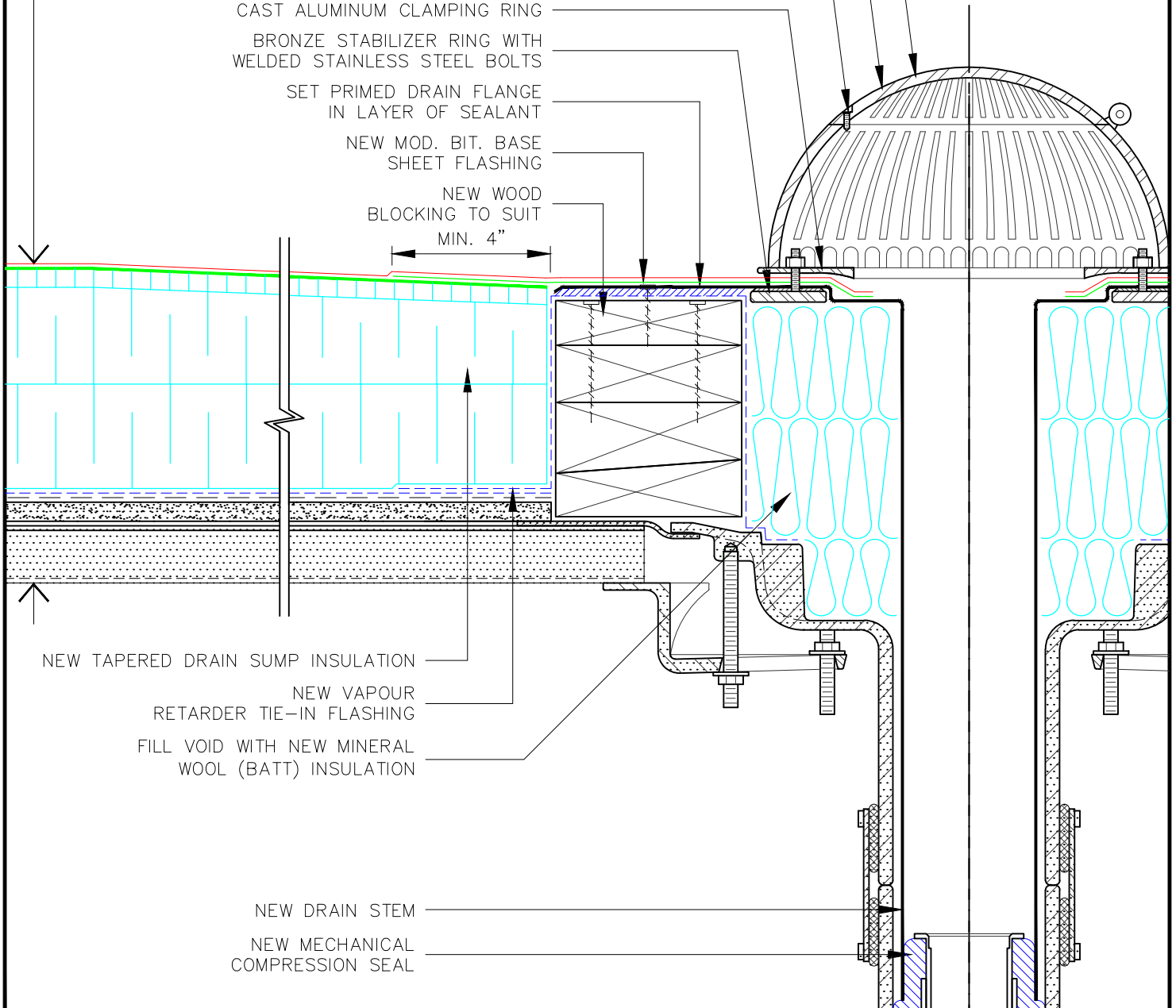
DWG.#: CMM384

- NEW MOD. BIT. CAP SHEET
- NEW COVER BOARD WITH BASE SHEET
- NEW OVERLAY INSULATION
- NEW BASE INSULATION
- NEW VAPOUR RETARDER
- EXISTING VAPOUR RETARDER
- EXISTING GYPSUM BOARD
- EXISTING METAL DECK



SUMP DIAGRAM

- CAST ALUMINUM DOME WITH HINGED ACCESS GATE
- NEW THALER "RD-4C-RR-FLAT" DRAIN
- STAINLESS STEEL VANDAL PROOF RETAINING SCREW
- CAST ALUMINUM CLAMPING RING
- BRONZE STABILIZER RING WITH WELDED STAINLESS STEEL BOLTS
- SET PRIMED DRAIN FLANGE IN LAYER OF SEALANT
- NEW MOD. BIT. BASE SHEET FLASHING
- NEW WOOD BLOCKING TO SUIT MIN. 4"



- NEW TAPERED DRAIN SUMP INSULATION
- NEW VAPOUR RETARDER TIE-IN FLASHING
- FILL VOID WITH NEW MINERAL WOOL (BATT) INSULATION

- NEW DRAIN STEM
- NEW MECHANICAL COMPRESSION SEAL



TITLE: **RETRO DRAIN DETAIL**

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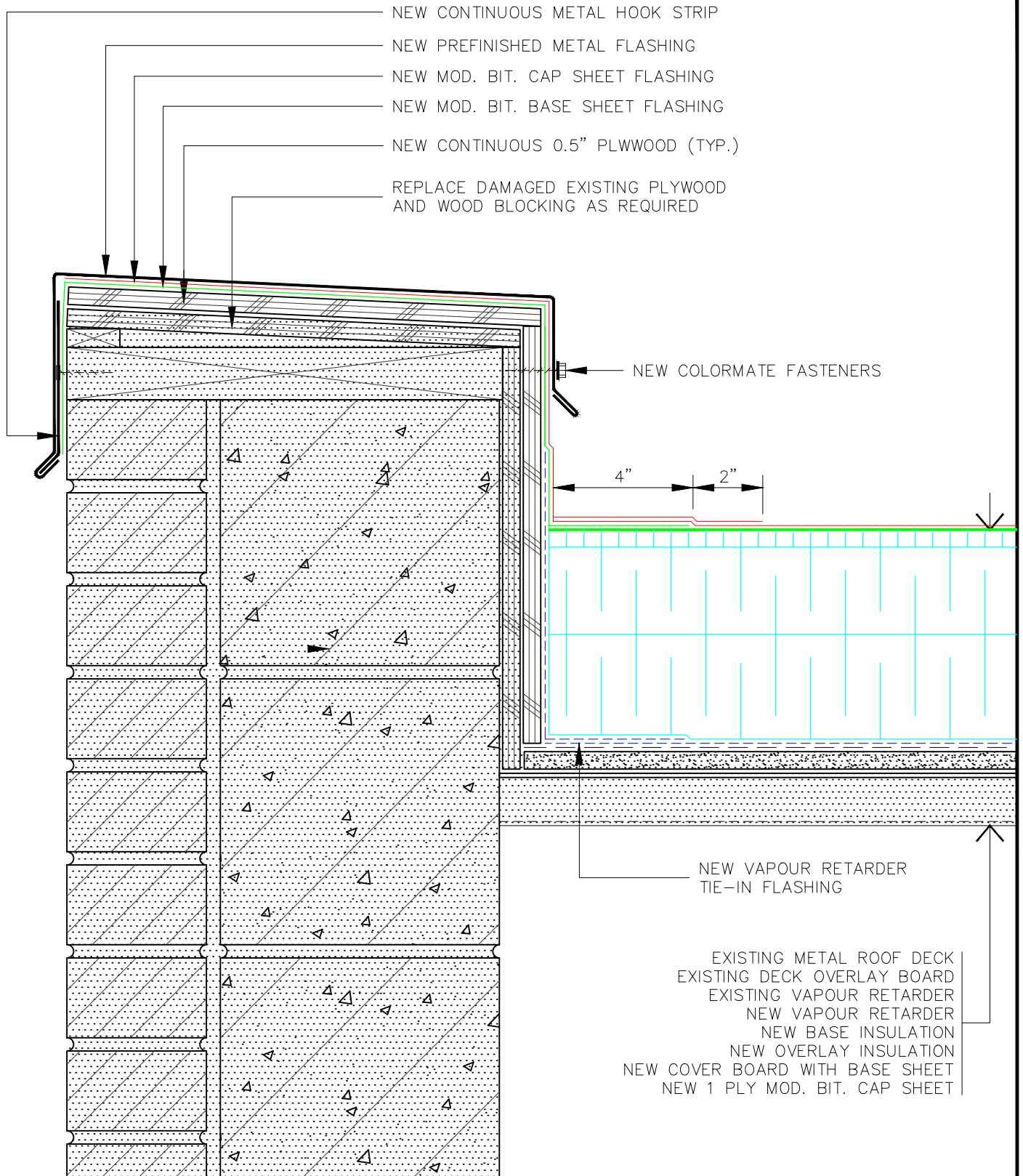
DRN. BY: **J.L.**

CHK. BY: **A.J.D./M.A.M.**

SCALE: **3" = 1'-0"**

DATE: **29 JAN. 2021**

DWG.#: **DMM488**



TITLE: **PARAPET DETAIL**

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DRN. BY: J.L.

CHK. BY: A.J.D./M.A.M.

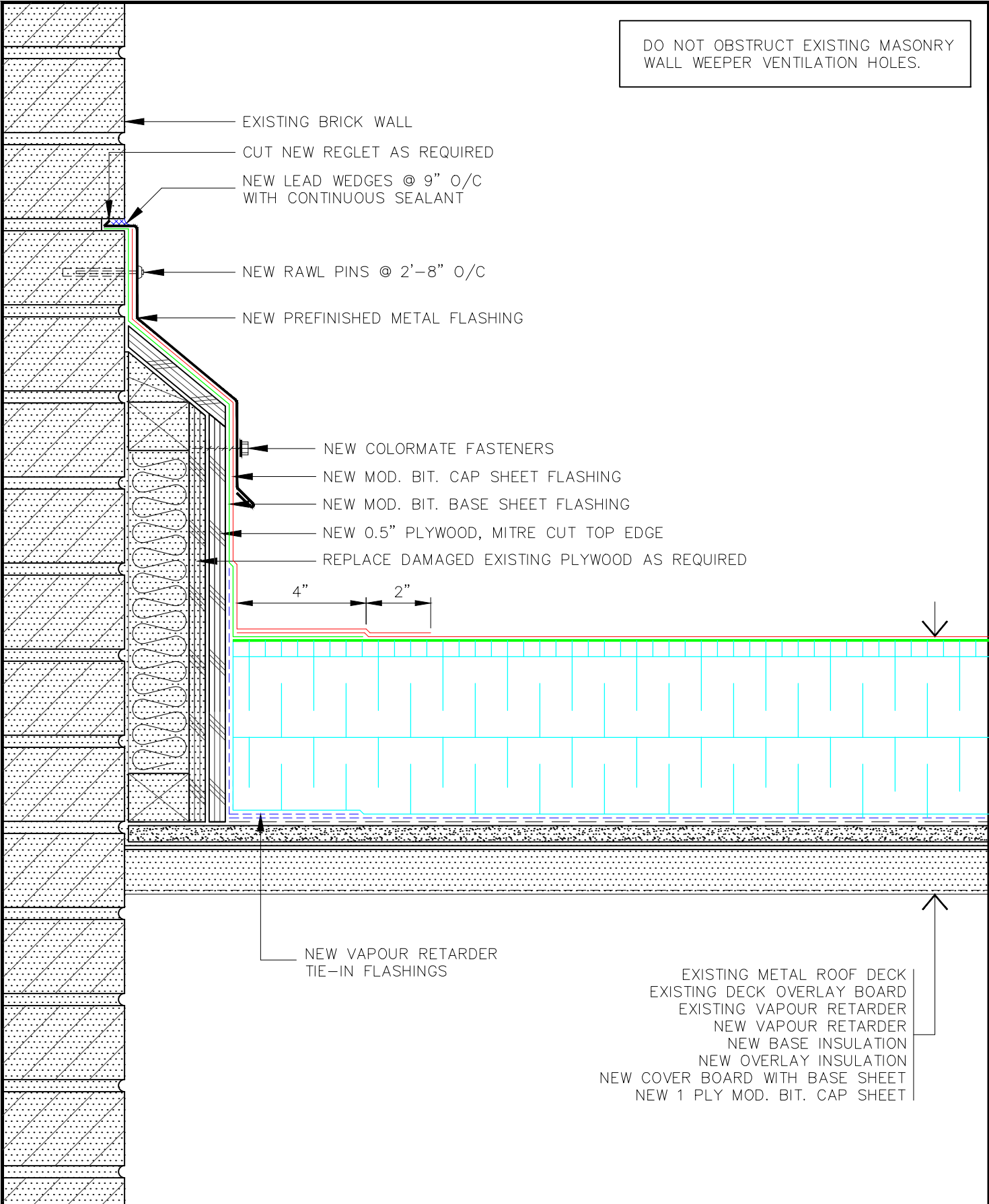
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DATE: **1 FEB. 21**

DWG.#: **PMM441**

M:\Details\F.W.W\3001-3500\RMM(3)372-RF-DD-ISO-XBD-Brick.dwg

DO NOT OBSTRUCT EXISTING MASONRY WALL WEEPER VENTILATION HOLES.



EXISTING BRICK WALL
 CUT NEW REGLET AS REQUIRED
 NEW LEAD WEDGES @ 9" O/C
 WITH CONTINUOUS SEALANT
 NEW RAWL PINS @ 2'-8" O/C
 NEW PREFINISHED METAL FLASHING

NEW COLORMATE FASTENERS
 NEW MOD. BIT. CAP SHEET FLASHING
 NEW MOD. BIT. BASE SHEET FLASHING
 NEW 0.5" PLYWOOD, MITRE CUT TOP EDGE
 REPLACE DAMAGED EXISTING PLYWOOD AS REQUIRED

4" 2"

NEW VAPOUR RETARDER
 TIE-IN FLASHINGS

EXISTING METAL ROOF DECK
 EXISTING DECK OVERLAY BOARD
 EXISTING VAPOUR RETARDER
 NEW VAPOUR RETARDER
 NEW BASE INSULATION
 NEW OVERLAY INSULATION
 NEW COVER BOARD WITH BASE SHEET
 NEW 1 PLY MOD. BIT. CAP SHEET

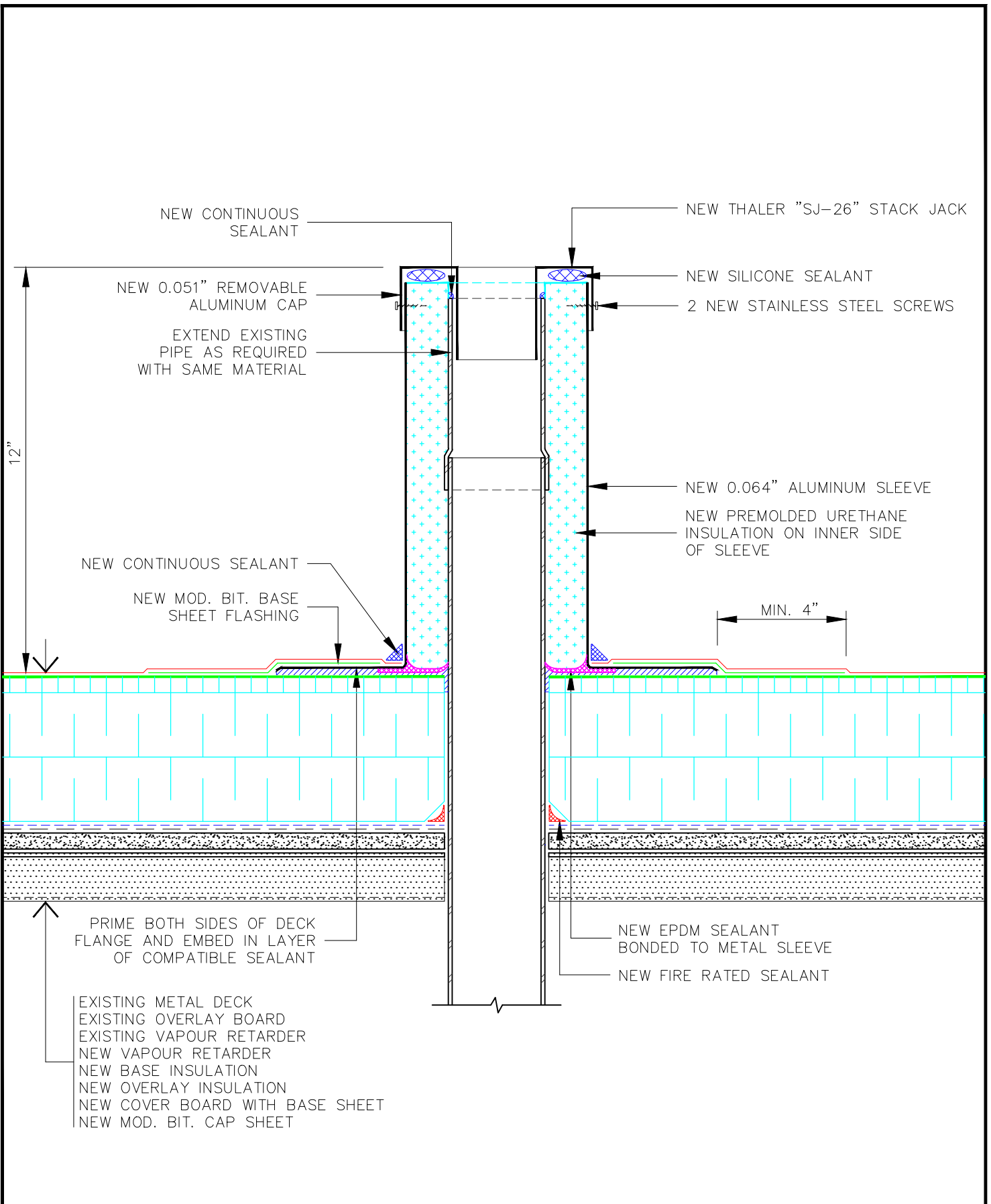


TITLE: MASONRY REGLET FLASHING DETAIL

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 REV'N.#:
 DRN. BY: J.L.
 CHK. BY: A.J.D./M.A.M.

SCALE: 3" = 1'-0"
 DATE: 29 JAN. 2021
 DWG.#: RMM372



TITLE: PLUMBING STACK DETAIL

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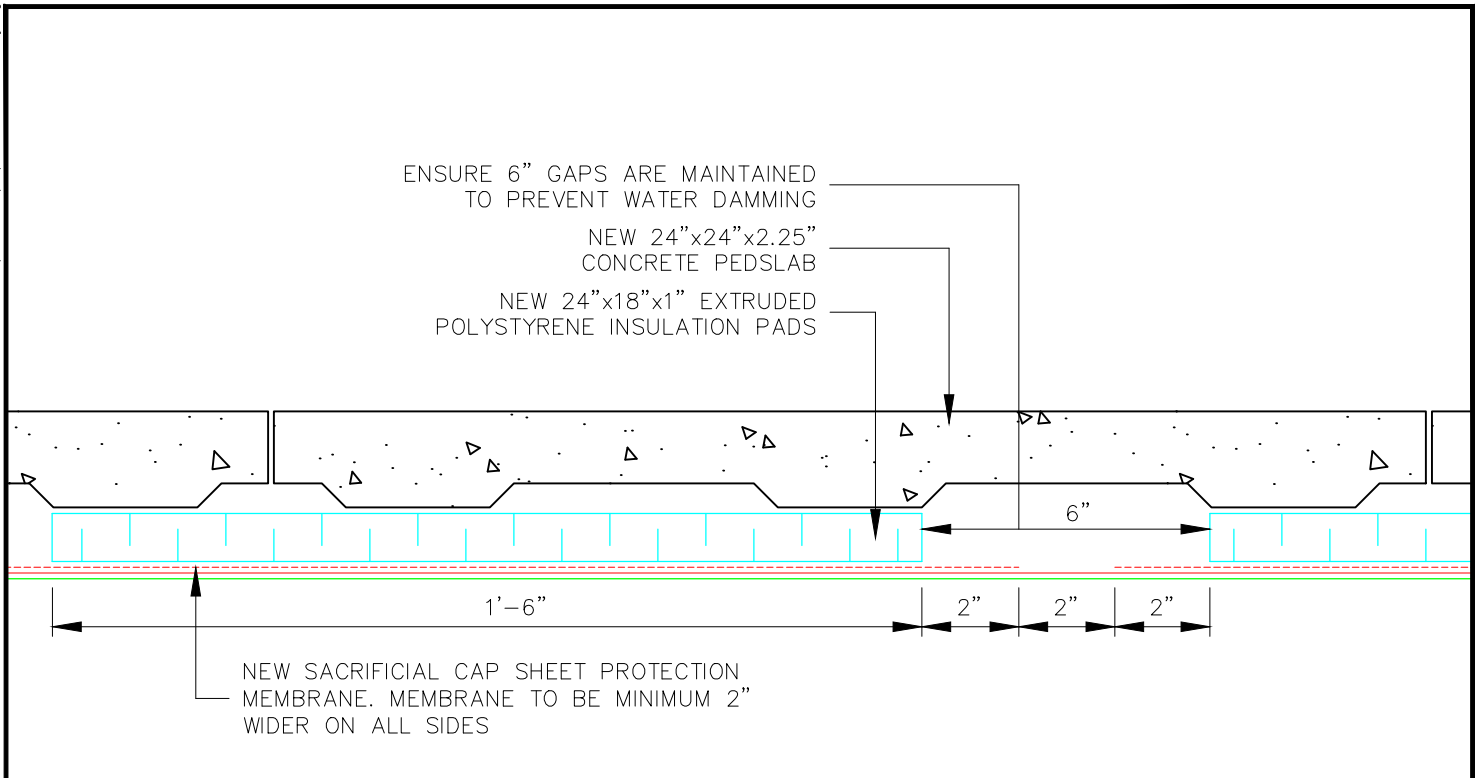
DRN. BY: J.L.

CHK. BY: A.J.D./M.A.M.

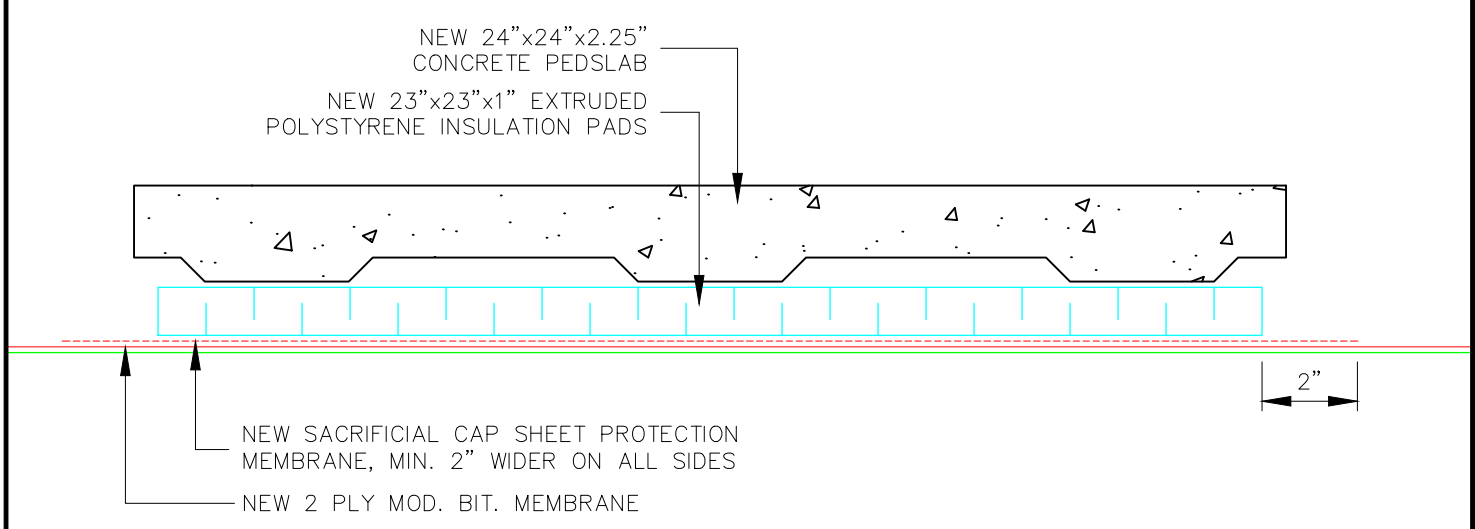
SCALE: 3" = 1'-0"

DATE: 29 JAN. 2021


DWG.#: SMM930



PAVER WALKWAY



SINGLE PAVER

	TITLE:	WALKWAY/PAVER DETAIL		REVISED:	SCALE: 3" = 1'-0"
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		CHK. BY:	A.J.D./T.K.C.		