

Plotted: 9/17/2018 4:38 PM by Chaijenki, Tanya File Name: P:\2018\2018.0xxx\2018.0772.0 - TRIPHAHN CENTER ROOF REPLACEMENT RFQ (PS)\Drawings\Roof Replacement.dwg

© Copyright 2018. All rights reserved. No part of this document may be reproduced in any form or by any means without permission from Wiss, Janney, Elstner Associates, Inc. (WJE). WJE disclaims any responsibility for its unauthorized use.

Triphahn Center Roof Replacement

1685 West Higgins Road
Hoffman Estates, Illinois

for: Hoffman Estates Park District
1685 West Higgins Road
Hoffman Estates, Illinois

by: **WJE** ENGINEERS
ARCHITECTS
MATERIAL SCIENTISTS

Wiss, Janney, Elstner Associates, Inc.
330 Pfingsten Road
Northbrook, IL 60062
847.272.7400 tel | 847.480.9534 fax

INDEX OF DRAWINGS

- | | | | |
|-------|-------------------------------|-------|-------------------------------|
| A-0.0 | Titlesheet | A-4.0 | Alternate 2: PVC Roof Details |
| A-1.0 | Roof Plan | A-5.0 | Translucent Panel Details |
| A-2.0 | Metal Roof Details | A-5.1 | Translucent Panel Details |
| A-2.1 | Metal Roof Details | | |
| A-2.2 | Metal Roof Details | | |
| A-3.0 | Alternate 1: PVC Roof Details | | |
| A-3.1 | Alternate 1: PVC Roof Details | | |

GENERAL NOTES

- Contractor to verify all conditions and dimensions in the field. Notify Architect/Engineer (A/E) of any variation from Drawings. Do not scale Drawings.
- Contractor shall secure and pay for Permits, Government Fees and Licenses as required by the Village of Hoffman Estates for proper execution and completion of the work.
- All exits are to remain open and operable as a means of egress from the building at all times. Provide adequate protection for all building occupants and pedestrians throughout the duration of the repair work.
- Contractor to provide close-up/hands-on scaffolding access for A/E to observe all repairs during the course of the repairs.
- Contractor shall coordinate any storage of materials at the building with the Owner.
- Contractor shall repair any damage to the building (walls, roof, etc.), landscaping, and adjacent properties caused by the Contractor to the satisfaction of the Owner.
- A certificate of insurance meeting the requirements as outlined by the Owner must be provided and approved prior to materials being stored on site and commencement of work.
- Parapet Hooks will not be acceptable for swing stage rigging.
- Do not overload roof with construction materials and/or equipment. Coordinate location for storage in parking lot with building.

SUMMARY OF WORK

Base Bid:

In general, the scope of work includes the following:

- Remove metal roofing panels and underlayment to existing insulation layer.
- Over existing insulation, install plywood/polyisocyanurate composite board.
- Remove metal wall panels to existing substrate.
- Install felt underlayment and waterproof underlayment over plywood surface and install batten seam metal roof system.
- Install flush seam metal wall panel system with continuous insulation behind.
- Remove and replace translucent skylight and wall panel system.

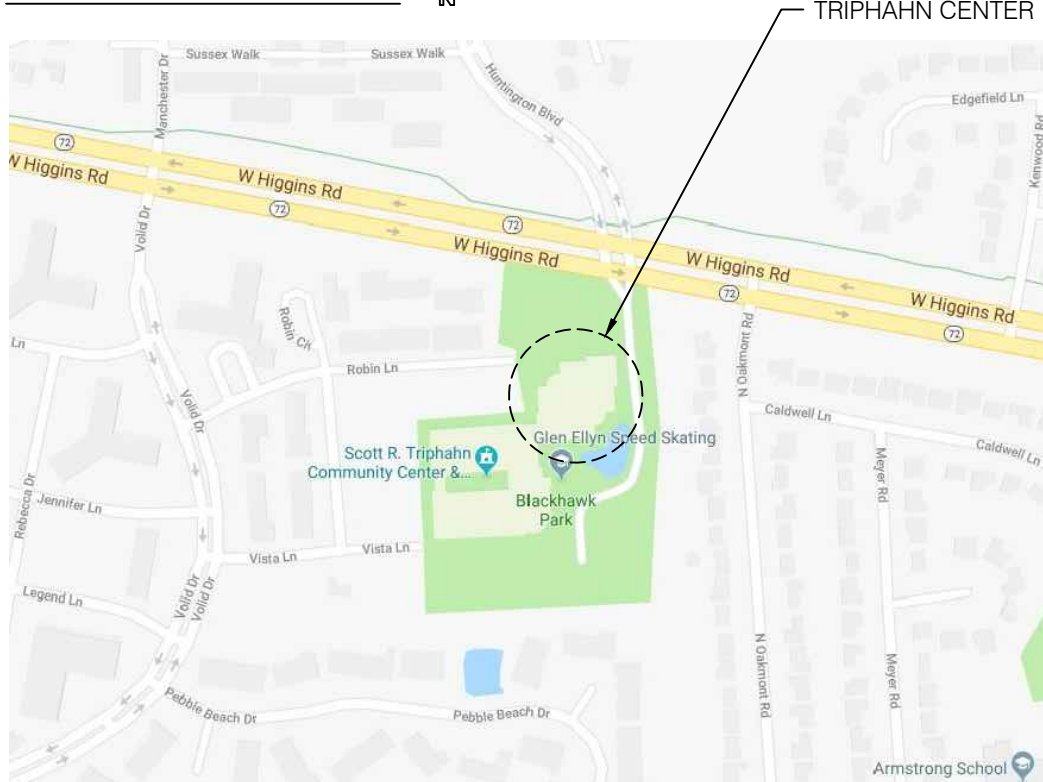
Alternate No. 1: (Provide single-ply membrane in lieu of metal panels)

- Remove all existing roofing, flashings and underlayment down to the existing insulation.
- Replace damaged or deteriorated insulation on a unit price basis.
- Mechanically fasten 3" polyisocyanurate insulation and ½" DensDeck Prime gypsum roof board through the existing insulation into the steel deck at the rate of one fastener per 2 square feet.
- Fully adhere a 60 mil fleece-back PVC membrane to the gypsum board substrate.
- Heat weld simulated standing seam extrusions to the membrane.

Alternate No. 2:

- Remove all existing roofing, flashings, and insulation down to the existing metal deck.
- Replace damaged or deteriorated roof deck on a unit price basis.
- Mechanically fasten 5 ½" polyisocyanurate insulation and ½" gypsum board into the steel deck at the rate of one fastener per 2 square feet.
- Install a 60 mil fully adhered PVC roofing membrane and associated flashings.

LOCATION MAP:



WJE ENGINEERS
ARCHITECTS
MATERIAL SCIENTISTS

Wiss, Janney, Elstner Associates, Inc.
330 Pfingsten Road
Northbrook, Illinois 60062
847.272.7400 tel | 847.480.9534 fax
www.wje.com

Headquarters & Laboratories: Northbrook, Illinois
Atlanta | Austin | Boston | Chicago | Cleveland | Dallas | Denver | Detroit
Honolulu | Houston | Los Angeles | Minneapolis | New Haven | New York
Princeton | San Francisco | Seattle | Washington, D.C.

Project

Triphahn Center
Roof Replacement

1685 West Higgins Road
Hoffman Estates, IL 60169

Client

Hoffman Estates
Park District

1685 West Higgins Road
Hoffman Estates, IL 60169

9.17.18	Issued for Bid
---------	----------------

Mark	Date	Description
------	------	-------------

Project No.	2018.0772
-------------	-----------

Date	September 17, 2018
------	--------------------

Drawn	TC
-------	----

Checked	PS / RAW
---------	----------

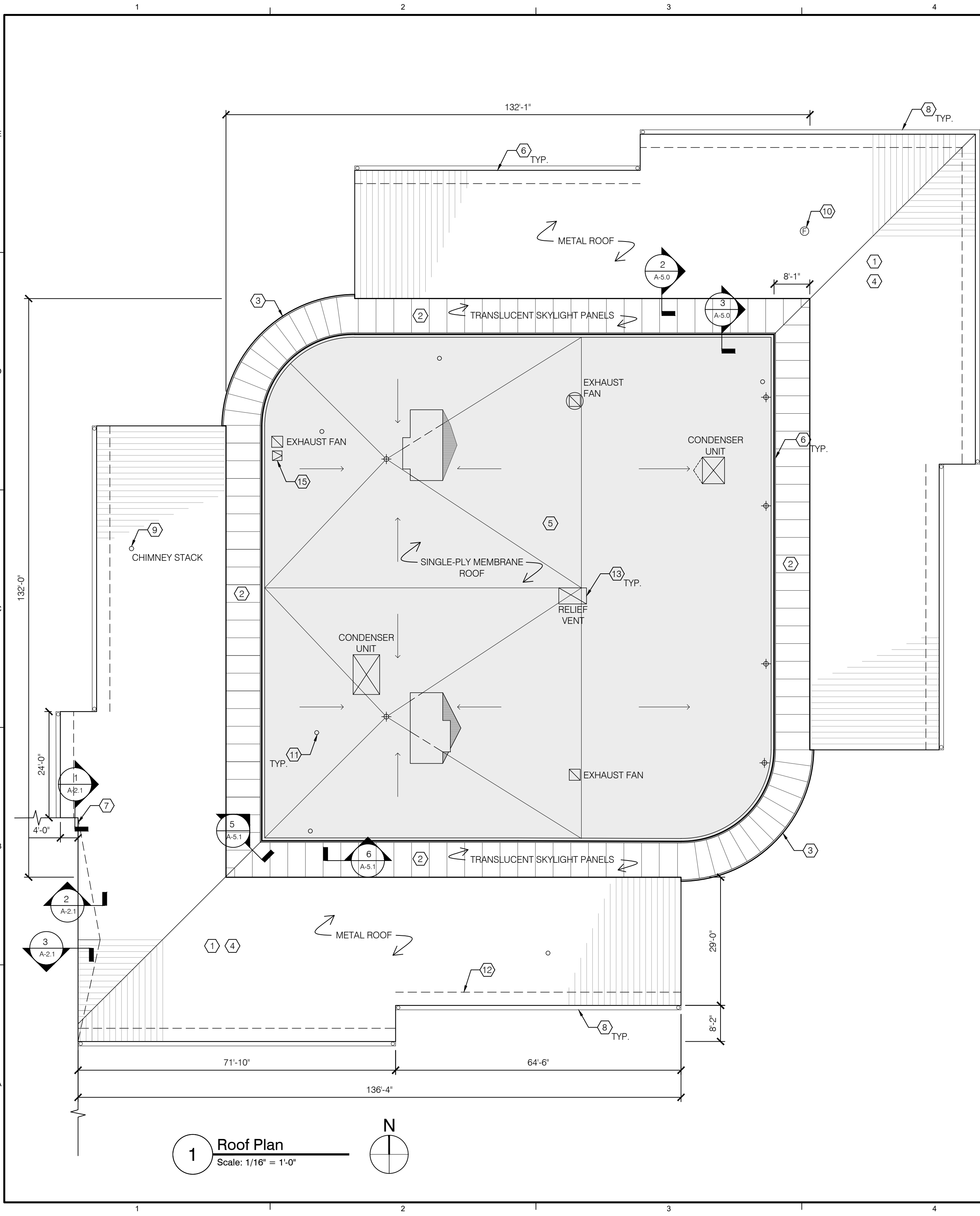
Scale	As Shown
-------	----------

Titlesheet

Sheet Title

Sheet No.

A-0.0



MARK	ROOF REPLACEMENT NOTE LEGEND
1	BASE BID (METAL ROOFING) - REMOVE ALL EXISTING ROOFING, FLASHINGS, AND UNDERLAYMENT DOWN TO THE EXISTING INSULATION. REPLACE DAMAGED OR DETERIORATED INSULATION ON A UNIT PRICE BASIS. MECHANICALLY FASTEN A PLYWOOD/ POLYISOCYANURATE COMPOSITE BOARD CONSISTING OF 3 INCH POLYISOCYANURATE INSULATION AND 3/4 INCH CDX PLYWOOD THROUGH THE EXISTING INSULATION INTO THE STEEL DECK AT THE RATE OF ONE FASTENER PER SQUARE FOOT. INSTALL A #30 FELT UNDERLAMENT OVER THE SUBSTRATE SURFACE AND A SELF-ADHERED WATERPROOFING UNDERLAYMENT AT EAVES, SADDLES, WALLS, AND EQUIPMENT PENETRATIONS. MECHANICALLY FASTEN A 26 GAUGE BATTEN SEAM METAL ROOF SYSTEM AND FLASHINGS. SEE DETAIL 1/A-2.0 FOR NEW ROOF ASSEMBLY.
2	BASE BID (TRANSLUCENT SKYLIGHT PANELS) - REMOVE AND REPLACE EXISTING 2 3/4" DEEP TRANSLUCENT SKYLIGHT SYSTEM AND ASSOCIATED BLOCKING AND FLASHINGS. INSTALL NEW INTERIOR TRIM TO CONCEAL BLOCKING.
3	BASE BID (TRANSLUCENT WALL PANELS) - REMOVE AND REPLACE EXISTING TRANSLUCENT WALL PANEL SYSTEM. THIS IS TO INCLUDE THE REPLACEMENT OF SOFFIT PANELS AT BASE OF WALL PANELS.
4	ALTERNATE 1 (SINGLE-PLY ROOFING) - REMOVE ALL EXISTING ROOFING, FLASHINGS, AND UNDERLAYMENT DOWN TO THE EXISTING INSULATION. REPLACE DAMAGED OR DETERIORATED INSULATION ON A UNIT PRICE BASIS. MECHANICALLY FASTEN 3" POLYISOCYANURATE BOARD AND 1/2" DENSDECK PRIME GYPSUM ROOF BOARD THROUGH THE EXISTING INSULATION INTO THE STEEL DECK AT THE RATE OF ONE FASTENER PER 2 SQUARE FEET. FULLY ADHERE A 60 MIL FLEECE BACK PVC MEMBRANE TO THE GYPSUM BOARD SUBSTRATE AND HEAT WELD SIMULATED STANDING SEAM EXTRUSIONS TO THE MEMBRANE. SEE DETAIL 1/A-3.0 FOR NEW ROOF ASSEMBLY.
5	ALTERNATE 2 (LOW-SLOPE ROOFING) - REMOVE ALL EXISTING ROOFING, FLASHINGS, AND INSULATION DOWN TO THE EXISTING METAL DECK. REPLACE DAMAGED OR DETERIORATED ROOF DECK ON A UNIT PRICE BASIS. MECHANICALLY FASTEN 5 1/2" POLYISOCYANURATE INSULATION AND 1/2" GYPSUM BOARD INTO THE STEEL DECK AT THE RATE OF ONE FASTENER PER 2 SQUARE FEET. INSTALL A 60 MIL FULLY ADHERED PVC ROOFING MEMBRANE AND ASSOCIATED FLASHINGS. SEE DETAIL 1/A-4.0 FOR NEW ROOF ASSEMBLY.
6	VERTICAL WALL PANELS (BASE BID AND ALTERNATE 1) - REMOVE EXISTING WALL PANELS AND UNDERLAYMENT TO SUBSTRATE. INSTALL NEW MOISTURE BARRIER OVER EXISTING SUBSTRATE AND INSTALL NEW 2 INCH POLYISOCYANURATE INSULATION OVER WALL SUBSTRATE. INSTALL NEW HORIZONTAL HAT CHANNEL FURRING 24 INCHES O.C. OVER NEW THERMAL CLIPS ATTACHED TO THE EXISTING SUBSTRATE. MECHANICALLY ATTACH NEW 12 INCH FLUSH SEAM PANELS TO THE HORIZONTAL FURRING. SEE DETAIL 2/A-2.0.
7	TIE-IN AT SOUTH BUILDING - REMOVE EXISTING MEMBRANE AT DRAINAGE SADDLE. CUT SADDLE FLUSH WITH WALL OF ADJACENT BUILDING AT NORTH END OF SADDLE. INSTALL WATERPROOFING UNDERLAYMENT ON SADDLE AND MINIMUM 3 FEET UP THE FIELD OF THE ROOF. REMOVE EXISTING COPING AND EXTEND WATERPROOF UNDERLAYMENT UP ADJACENT WALL TO TOP OF THE PARAPET. INSTALL SHEET METAL ROOFING PANELS AT SADDLE AND INTEGRATE WITH FIELD PANELS. INSTALL EPDM MEMBRANE OVER TOP OF PARAPET WALL AND SEAL TO PENETRATIONS. INSTALL NEW COPING METAL AND SEAL AT PENETRATIONS THROUGH COPING WITH PMMA LIQUID FLASHING MEMBRANE.
8	TYPICAL GUTTER EDGE - INSTALL WOOD BLOCKING AT PERIMETER TO MATCH HEIGHT OF INSULATION AND NAILBASE ASSEMBLY. MECHANICALLY FASTEN GUTTER TO WOOD BLOCKING AND STRIP-IN FLANGE WITH WATERPROOF UNDERLAYMENT. SET Z-RETAINER STRIP IN SEALANT AND ENGAGE METAL PANEL EDGE INTO Z-RETAINER. SEE DETAIL 3/A-2.0.
9	CHIMNEY STACK - REMOVE EXISTING FLASHING COLLAR AND SAVE FOR REUSE. REMOVE FLASHING SLEEVE TO EXPOSE CHIMNEY STACK. FABRICATE NEW SHEET METAL FLASHING SLEEVE AND INTEGRATE INTO METAL ROOF SYSTEM. REINSTALL FLASHING COLLAR AND SEAL ALONG TOP EDGE. SEE DETAIL 3/A-2.2.
10	VENT STACKS - FABRICATE METAL SLEEVE APPROXIMATELY 1 INCH LARGER THAN THE DIAMETER OF THE PIPE AND MECHANICALLY ATTACH TO THE BOTTOM SIDE OF THE METAL PANEL IN A SOLID BED OF BUTYL SEALANT. APPROXIMATELY 1 INCH ABOVE THE TOP OF THE COLLAR, INSTALL A SHEET METAL STORM COLLAR SECURED TO THE VENT STACK PIPE WITH A STAINLESS STEEL DRAWBAND. INSTALL SEALANT ALONG THE TOP EDGE OF THE COLLAR AND AT THE JUNCTION OF THE METAL ROOF PANEL AND FLASHING SLEEVE.
11	PLUMBING VENTS (BASE BID) - FABRICATE METAL SLEEVE APPROXIMATELY 1 INCH LARGER THAN THE DIAMETER OF THE PLUMBING VENT PIPE AND MECHANICALLY ATTACH TO THE BOTTOM SIDE OF THE METAL PANEL IN A SOLID BED OF BUTYL SEALANT. INSTALL A SHEET METAL FLASHING CAP OVER THE TOP OF THE PIPE OVERLAPPING THE FLASHING SLEEVE 2 INCHES. FASTEN FLASHING CAP TO THE FLASHING SLEEVE WITH RIVETS.
12	SNOW RETENTION - SET EPDM GASKET ON ROOF PANEL AND INSTALL SNOW RETENTION BRACKETS 16" O.C. IN BUTYL MASTIC. MECHANICALLY FASTEN BRACKET INTO STEEL DECK WITH STAINLESS STEEL FASTENERS WITH EPDM WASHERS. INSTALL SEALANT OVER FASTENERS AND INSTALL A COVE BEAD AT PERIMETER OF BRACKET. INSTALL TUBING PER MANUFACTURER RECOMMENDATIONS. SEE DETAIL 4/A-2.1.
13	MECHANICAL CURBS - REMOVE EXISTING FLASHINGS AT THE PERIMETER. LOCATIONS OF EACH EQUIPMENT SUPPORT. ADD WOOD BLOCKING ALONG THE EXISTING CURB RAIL TO PROVIDE SUITABLE FLASHING HEIGHTS. DISCONNECTION AND RECONNECTION OF MECHANICAL EQUIPMENT, IF REQUIRED, SHALL BE INCLUDED IN THE BASE BID. INSTALL NEW SHEET METAL "SKIRT" FLASHINGS SET BENEATH THE DOWNWARD LEG OF THE SHEET METAL FLANGE. DETAIL SIMILAR TO 3/A-4.0.
14	ROOF DRAINS - EXISTING PRIMARY ROOF DRAINS TO REMAIN. SEE TYPICAL DRAIN DETAIL 2/A-4.0 FOR REQUIRED PROCEDURE FOR EACH DRAIN LOCATION. NOTE THAT CAST IRON GRATINGS MAY BE REUSED AND PLASTIC GRATINGS WILL NOT BE ACCEPTED.
15	ROOF HATCH - REMOVE EXISTING FLASHINGS AT THE PERIMETER OF ROOF HATCH. TEMPORARILY REMOVE HATCH AND ADD WOOD BLOCKING TO PROVIDE SUITABLE FLASHING HEIGHTS. INSTALL NEW SHEET METAL "SKIRT" FLASHINGS SET BENEATH THE DOWNWARD LEG OF THE SHEET METAL HATCH COVER. SEE DETAIL 4/A-4.0.
16	PLUMBING VENTS (ALTERNATES) - REMOVE EXISTING FLASHINGS AT PIPES. INSTALL FIELD MEMBRANE TO PIPES, MECHANICALLY FASTEN, AND INSTALL A FLASHING BOOT OVER PIPE. INSTALL SEALANT BEHIND TOP EDGE OF BOOT, INSTALL STAINLESS STEEL CLAMP, AND INSTALL SEALANT OVER TOP EDGE OF THE BOOT.

WJE

ENGINEERS
ARCHITECTS
MATERIALS SCIENTISTS

Wiss, Janney, Elstner Associates, Inc.

330 Pfingsten Road
Northbrook, Illinois 60062
847.272.7400 tel | 847.480.9534 fax
www.wje.com

Headquarters & Laboratories: Northbrook, Illinois

Atlanta | Austin | Boston | Chicago | Cleveland | Dallas | Denver | Detroit
Honolulu | Houston | Los Angeles | Minneapolis | New Haven | New York
Princeton | San Francisco | Seattle | Washington, D.C.

Project

Triphahn Center
Roof Replacement

1685 West Higgins Road
Hoffman Estates, IL 60169

Client

Hoffman Estates
Park District

1685 West Higgins Road
Hoffman Estates, IL 60169

	9.17.18	Issued for Bid
Mark	Date	Description

Project No.	2018.0772
Date	September 17, 2018
Drawn	TC
Checked	PS / RAW
Scale	As Shown

Roof Plan

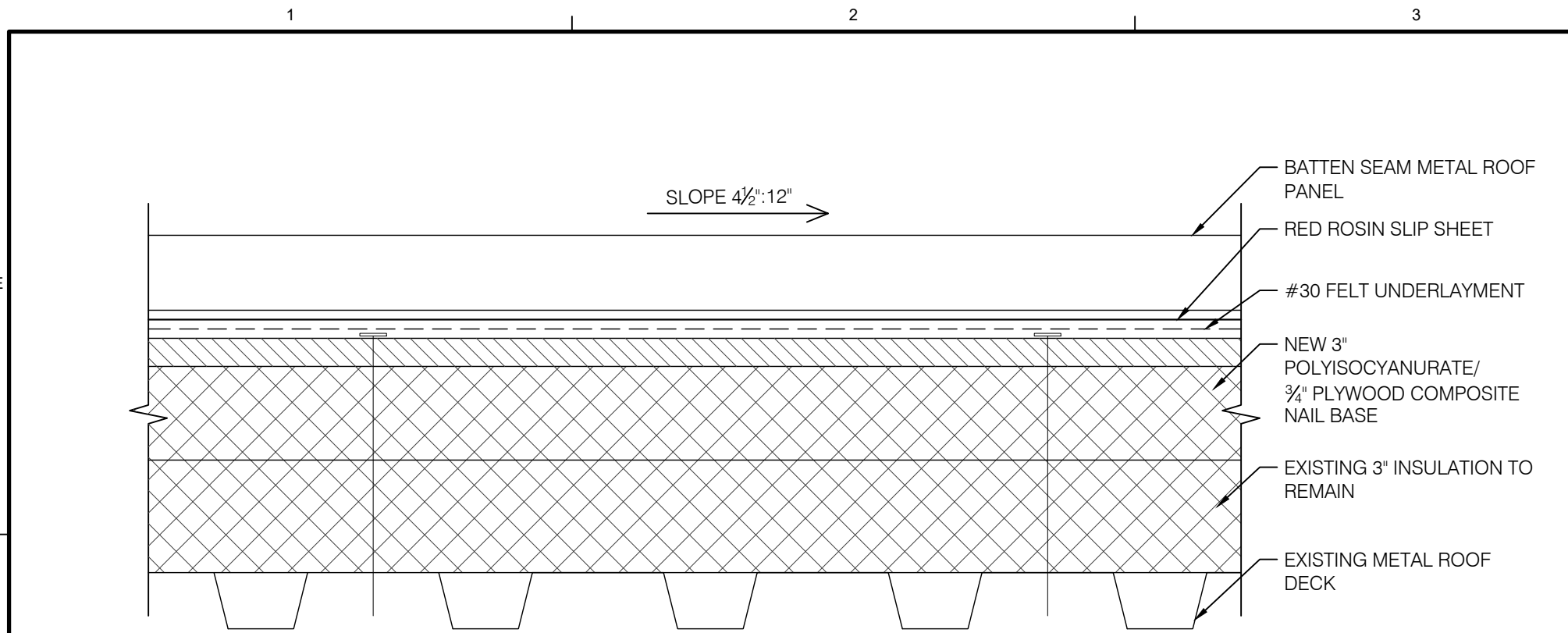
Sheet Title

Sheet No.

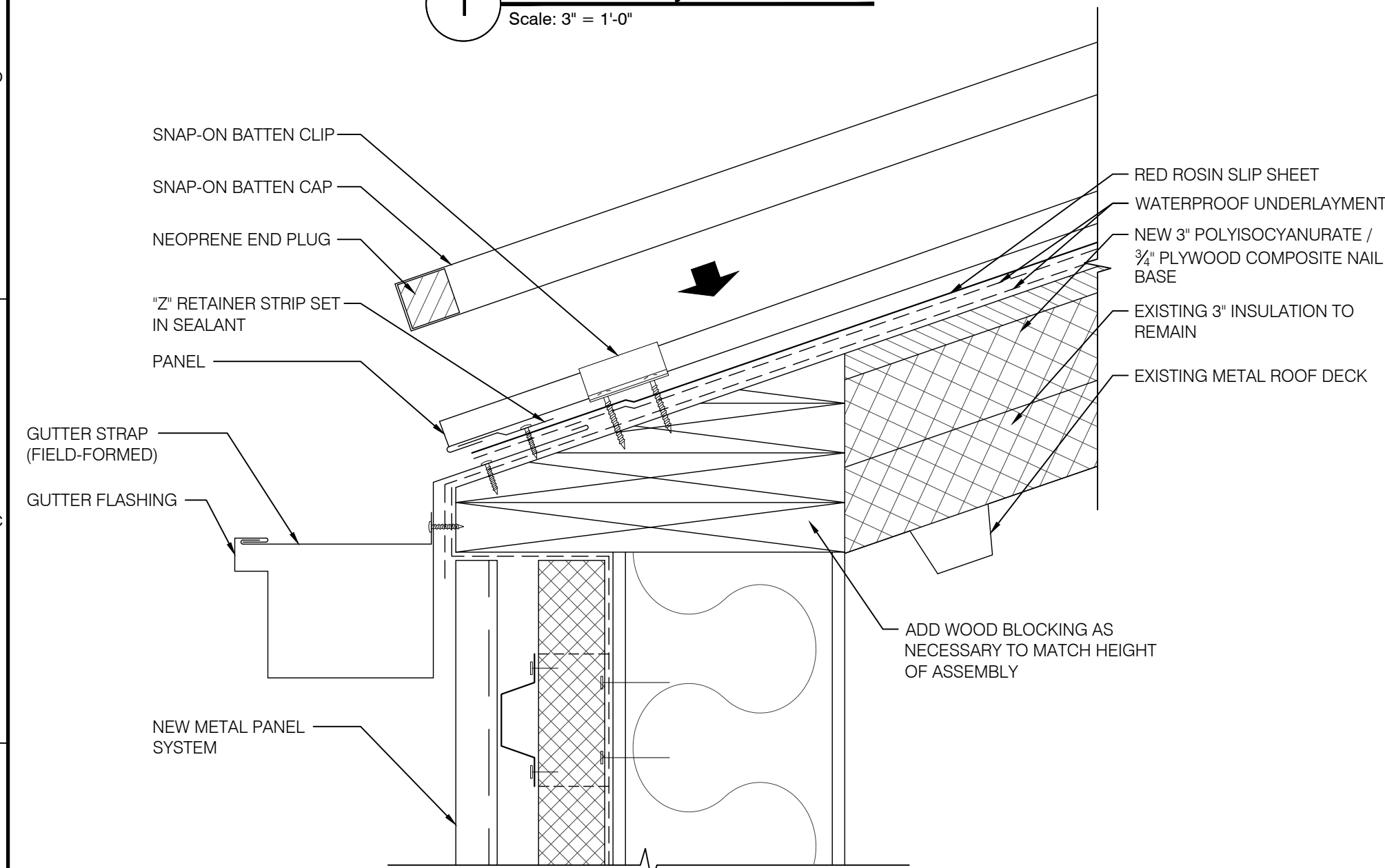
A-1.0

Plotted: 9/17/2018 4:38 PM by Chaijenkit, Tanya File Name: P:\2018\2018.0xxx\2018.0772.0 - TRIPHAWN CENTER ROOF REPLACEMENT RFQ (PS)\Drawings\Roof Replacement.dwg

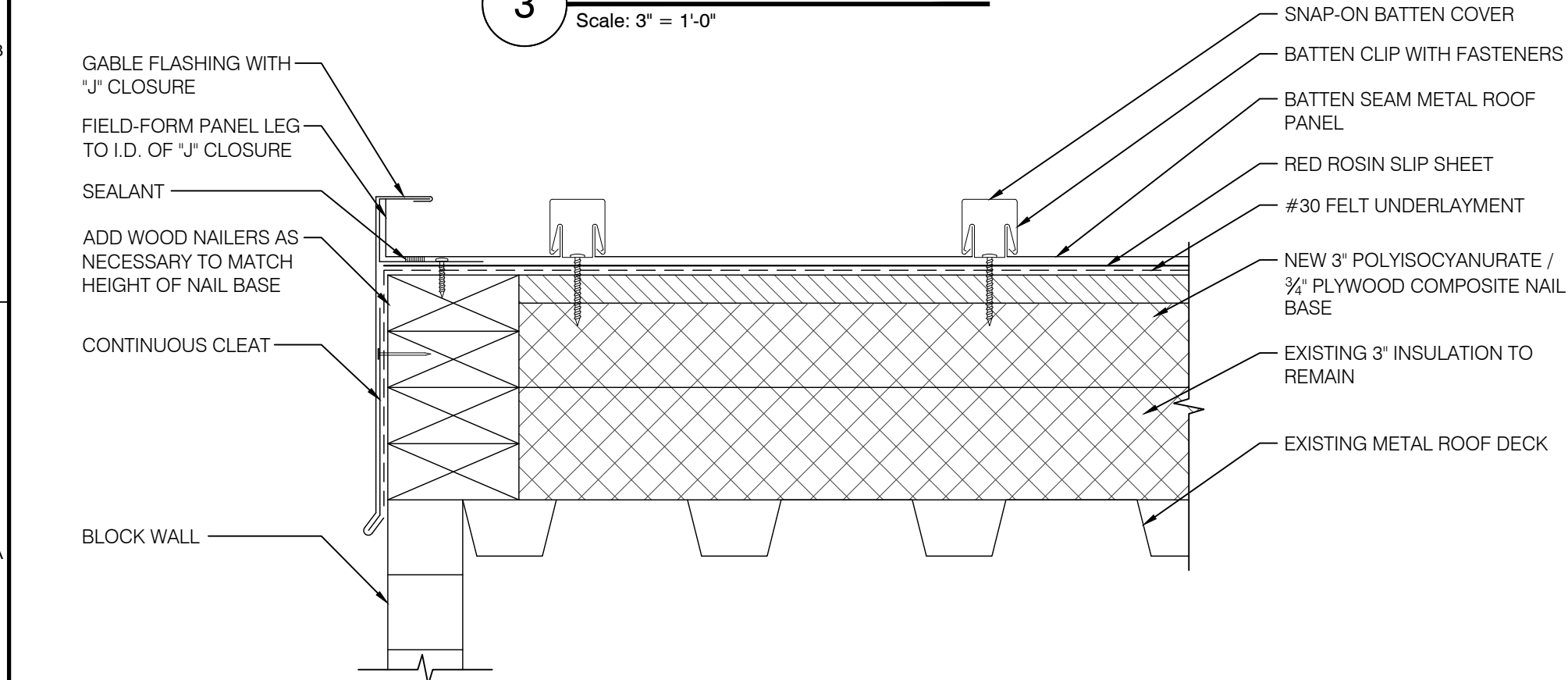
© Copyright 2018. All rights reserved. No part of this document may be reproduced in any form or by any means without permission from Wiss, Janney, Elstner Associates, Inc. (WJE). WJE disclaims any responsibility for its unauthorized use.



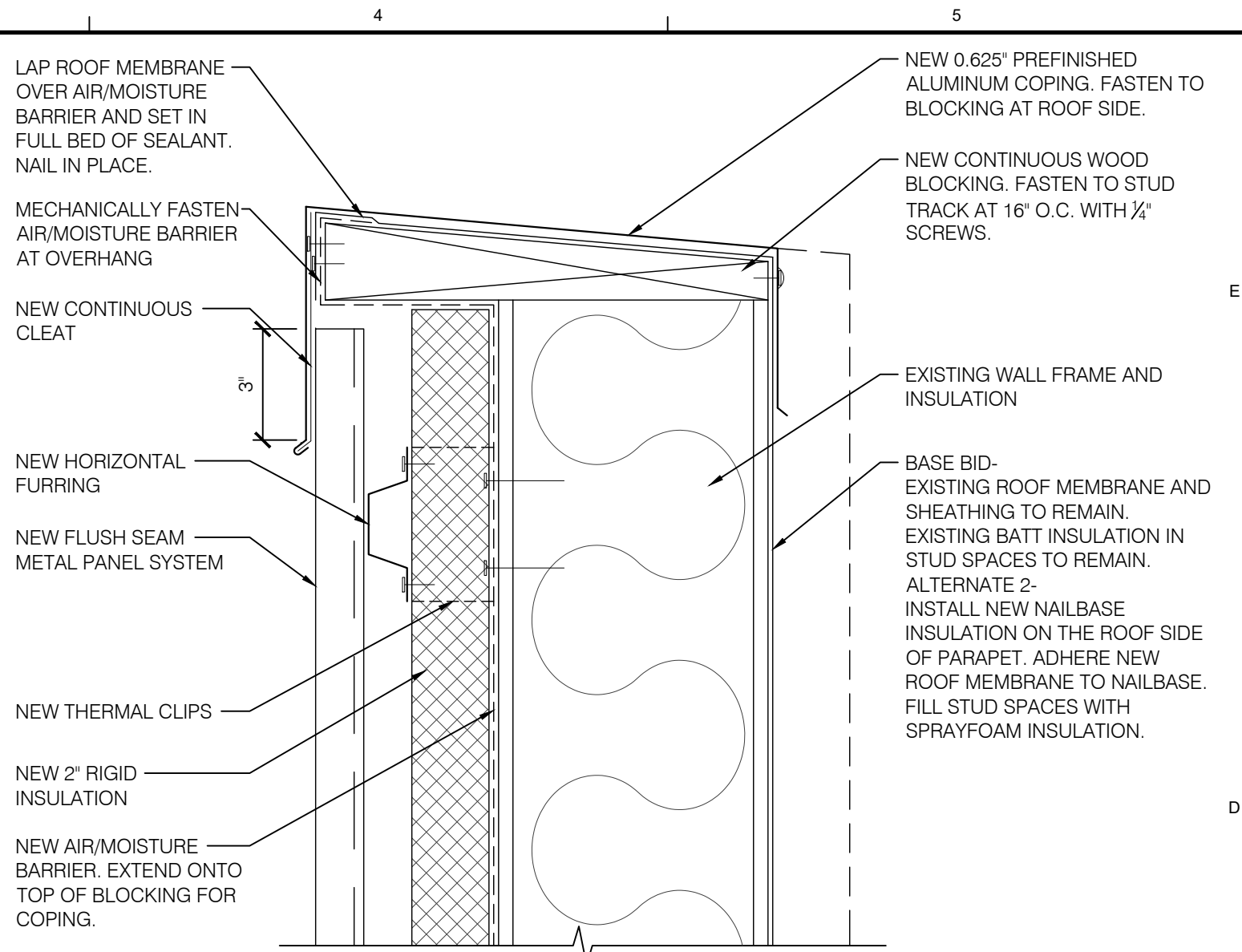
1 Metal Roof System Detail
Scale: 3" = 1'-0"



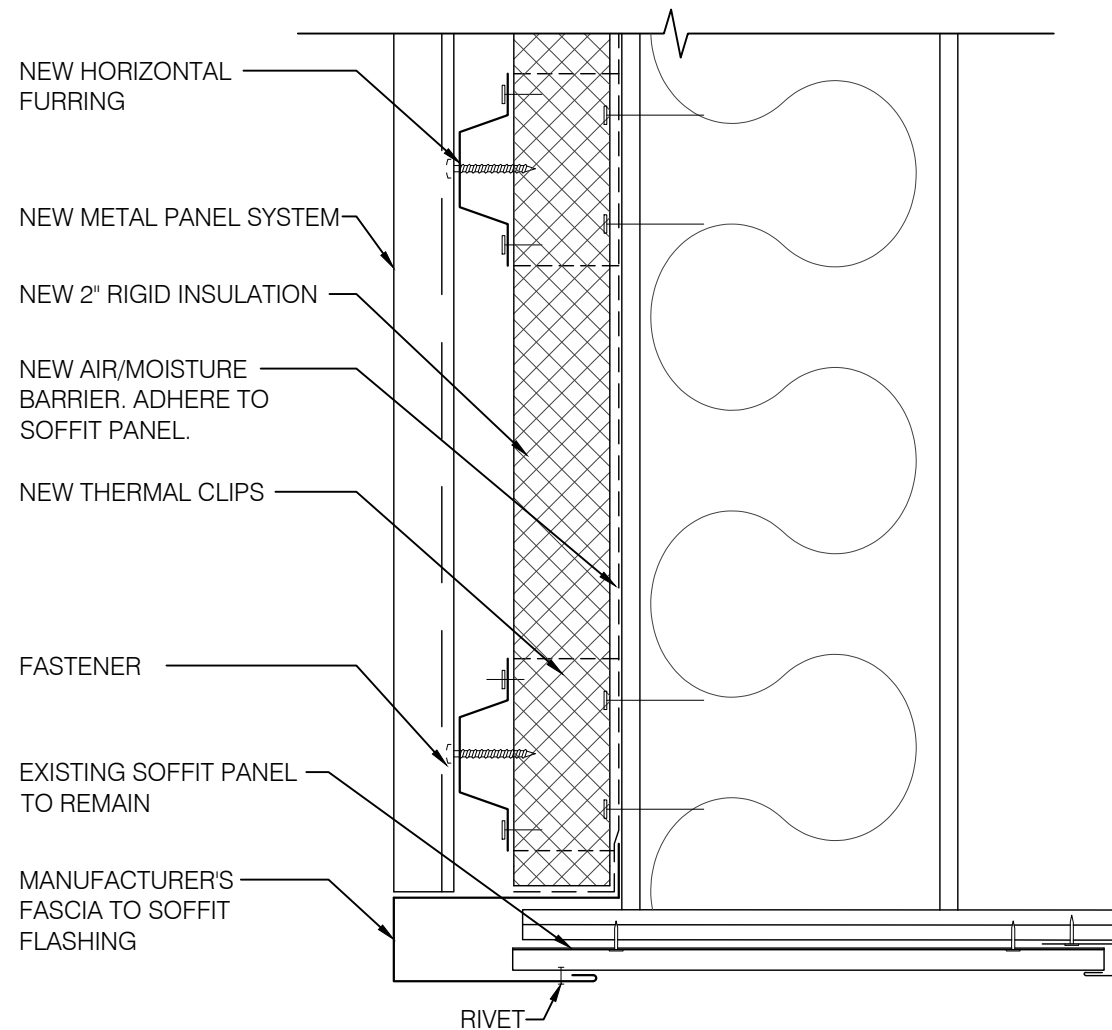
3 Gutter Detail
Scale: 3" = 1'-0"



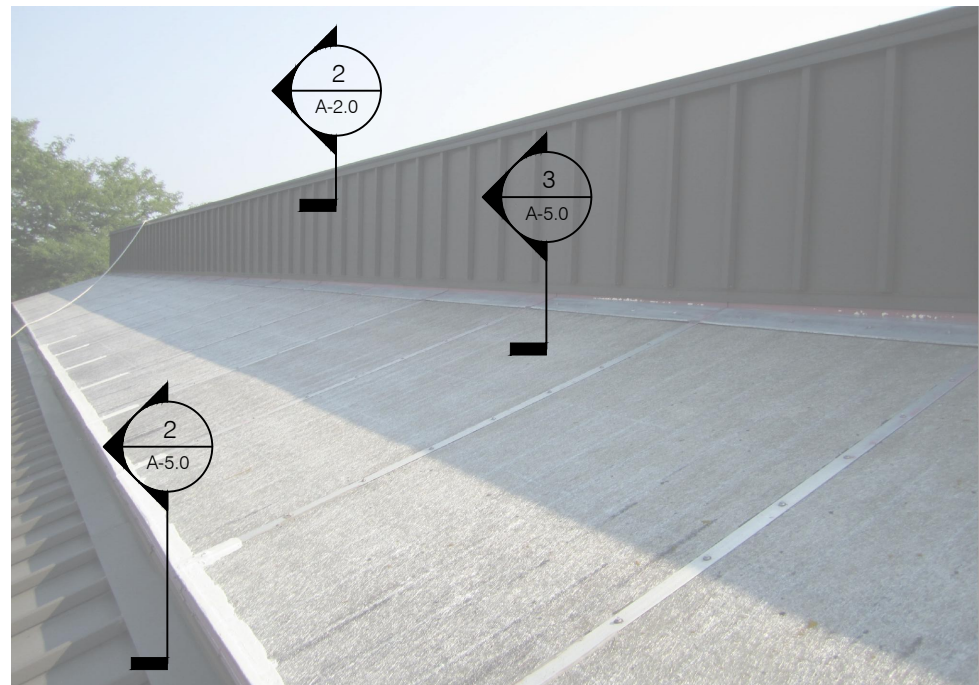
5 Gable Detail
Scale: 3" = 1'-0"



2 New Coping Detail
Scale: 3" = 1'-0"



4 Fascia to Soffit Flashing Detail
Scale: 3" = 1'-0"



WJE ENGINEERS
ARCHITECTS
MATERIALS SCIENTISTS

Wiss, Janney, Elstner Associates, Inc.
330 Pfingsten Road
Northbrook, Illinois 60062
847.272.7400 tel | 847.480.9534 fax
www.wje.com

Headquarters & Laboratories: Northbrook, Illinois
Atlanta | Austin | Boston | Chicago | Cleveland | Dallas | Denver | Detroit
Honolulu | Houston | Los Angeles | Minneapolis | New Haven | New York
Princeton | San Francisco | Seattle | Washington, D.C.

Project

**Triphahn Center
Roof Replacement**

1685 West Higgins Road
Hoffman Estates, IL 60169

Client

**Hoffman Estates
Park District**

1685 West Higgins Road
Hoffman Estates, IL 60169

Mark	Date	Description
	9.17.18	Issued for Bid

Project No.	2018.0772
Date	September 17, 2018
Drawn	TC
Checked	PS / RAW
Scale	As Shown

Metal Roof Details

Sheet Title

Sheet No.

A-2.0

WJE

ENGINEERS

ARCHITECTS

MATERIALS SCIENTISTS

Wiss, Janney, Elstner Associates, Inc.

330 Pfingsten Road

Northbrook, Illinois 60062

847.272.7400 tel | 847.480.9534 fax

www.wje.com

Headquarters & Laboratories: Northbrook, Illinois

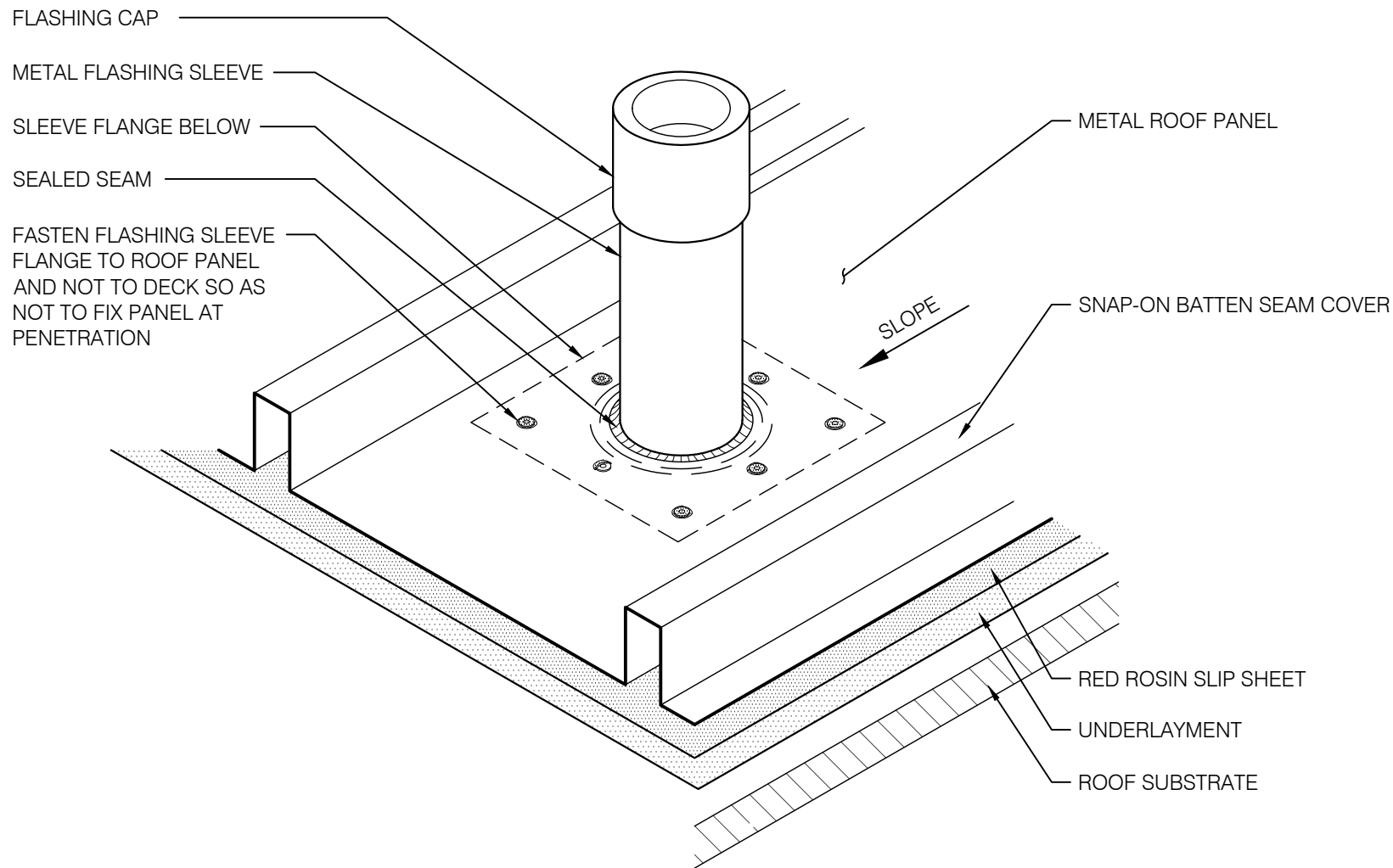
Atlanta | Austin | Boston | Chicago | Cleveland | Dallas | Denver | Detroit

Honolulu | Houston | Los Angeles | Minneapolis | New Haven | New York

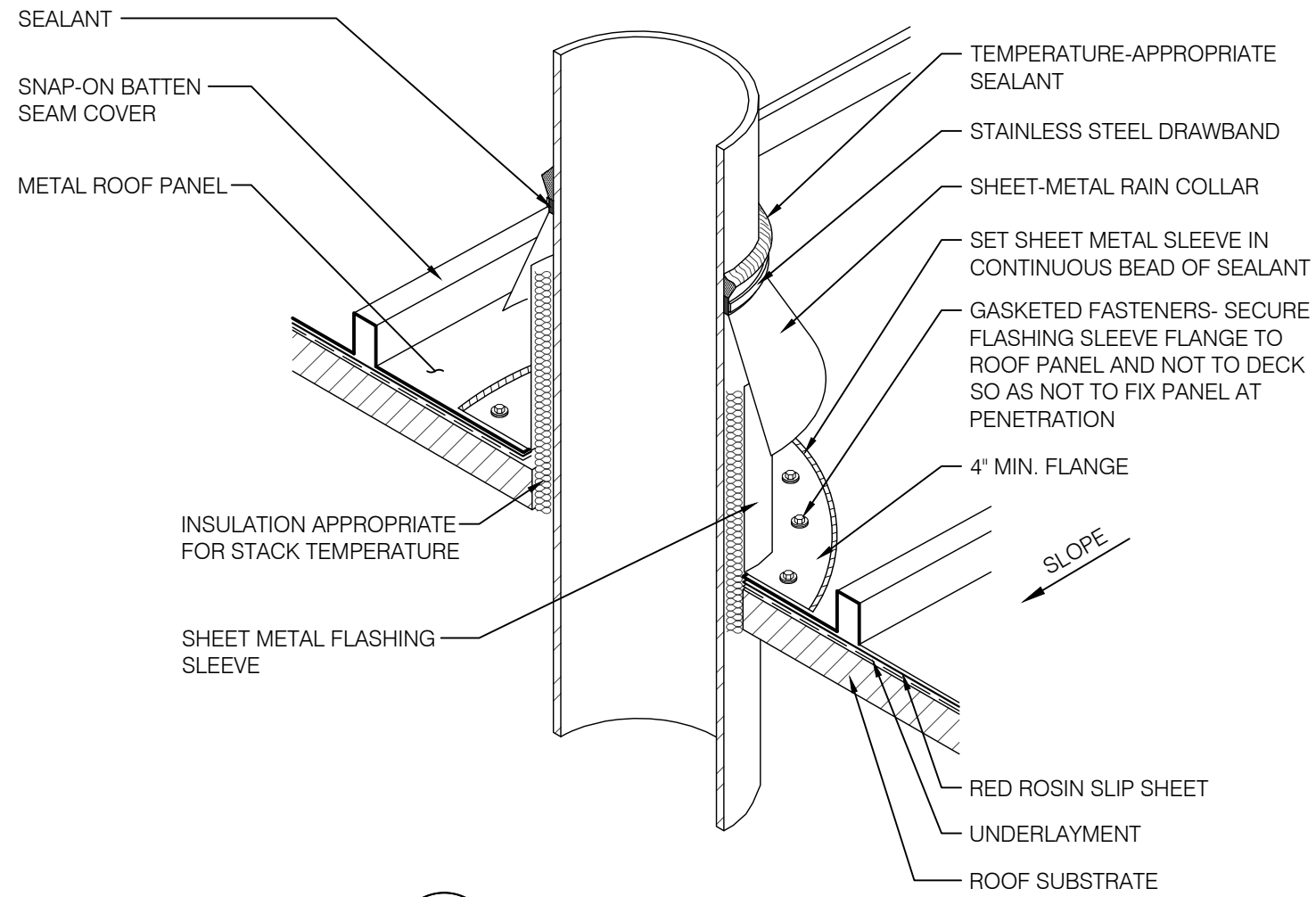
Princeton | San Francisco | Seattle | Washington, D.C.

Plotted: 9/17/2018 4:38 PM by Chaijenkit, Tanya File Name: P:\2018\2018.0xxx\2018.0772.0 - TRIPHAWN CENTER ROOF REPLACEMENT RFO (RS)\Drawings\Roof Replacement.dwg

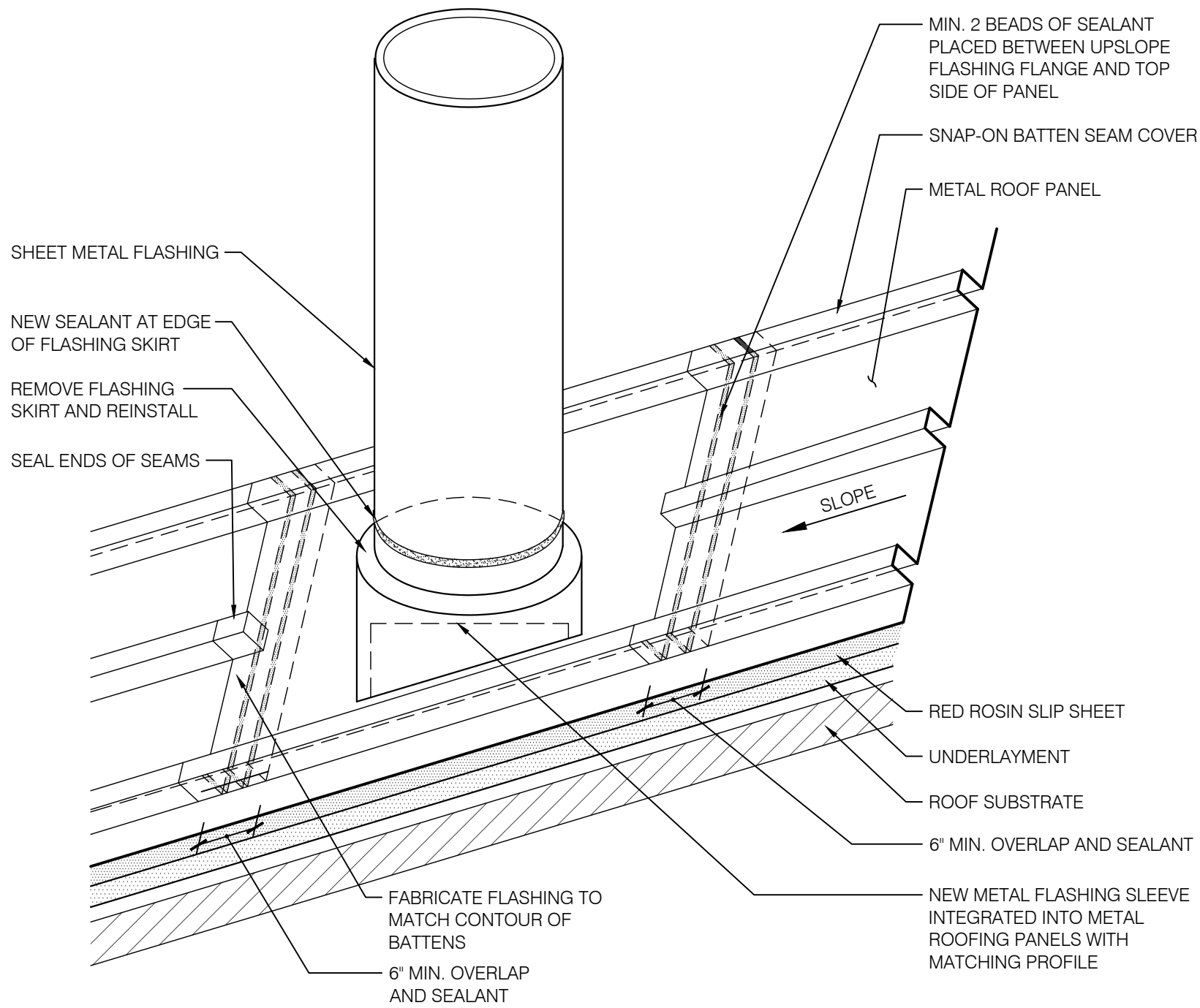
© Copyright 2018. All rights reserved. No part of this document may be reproduced in any form or by any means without permission from Wiss, Janney, Elstner Associates, Inc. (WJE). WJE disclaims any responsibility for its unauthorized use.



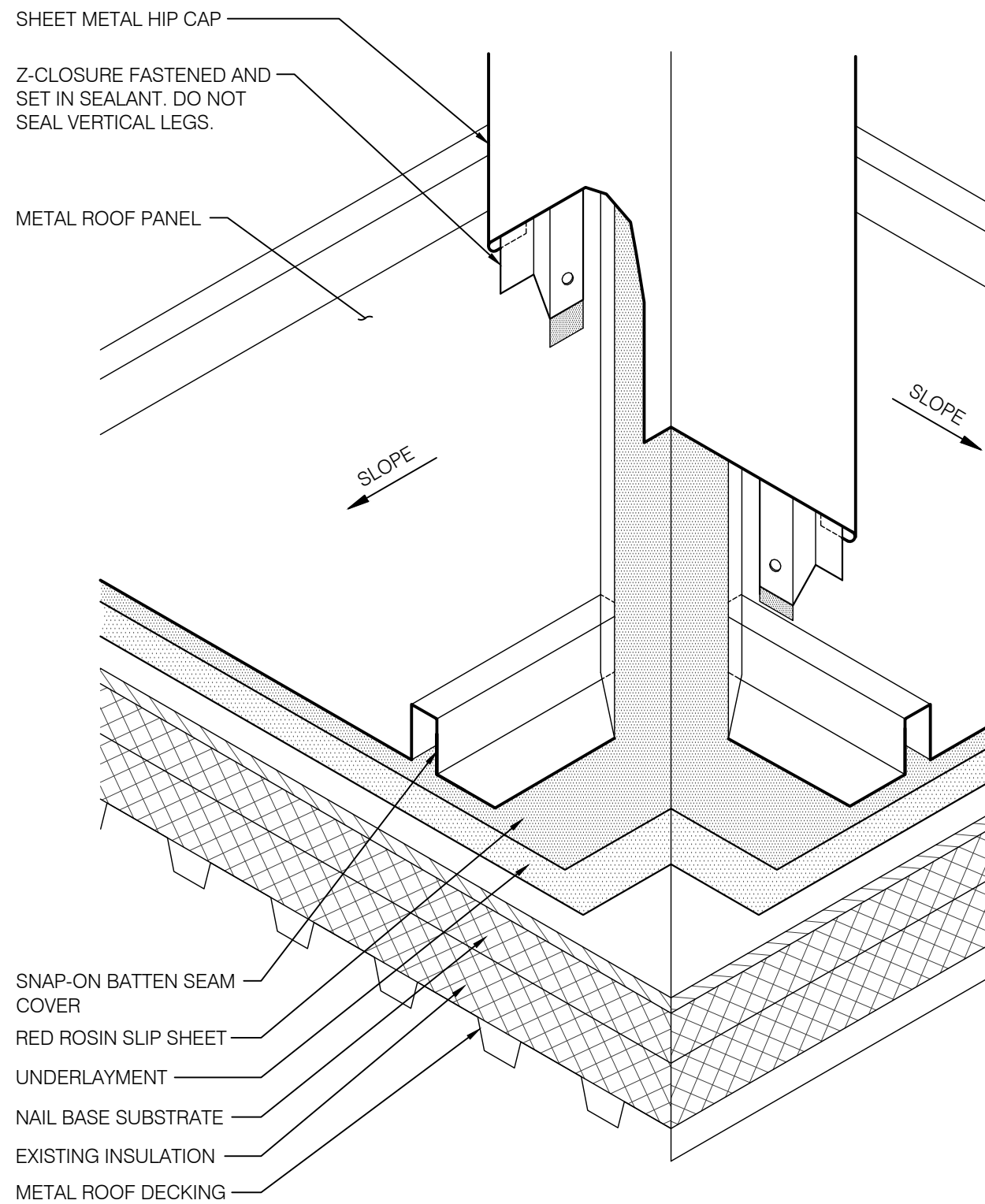
1 Plumbing Vent Flashing
Scale: N.T.S.



2 Vent Stack Flashing
Scale: N.T.S.



3 Boiler Flue Flashing
Scale: N.T.S.



4 Hip Cap Flashing
Scale: N.T.S.

WJE ENGINEERS
ARCHITECTS
MATERIALS SCIENTISTS

Wiss, Janney, Elstner Associates, Inc.
330 Pfingsten Road
Northbrook, Illinois 60062
847.272.7400 tel | 847.480.9534 fax
www.wje.com

Headquarters & Laboratories: Northbrook, Illinois
Atlanta | Austin | Boston | Chicago | Cleveland | Dallas | Denver | Detroit
Honolulu | Houston | Los Angeles | Minneapolis | New Haven | New York
Princeton | San Francisco | Seattle | Washington, D.C.

Project

**Triphahn Center
Roof Replacement**

1685 West Higgins Road
Hoffman Estates, IL 60169

Client

**Hoffman Estates
Park District**

1685 West Higgins Road
Hoffman Estates, IL 60169

	9.17.18	Issued for Bid
Mark	Date	Description

Project No.	2018.0772
Date	September 17, 2018
Drawn	TC
Checked	PS / RAW
Scale	As Shown

Metal Roof Details

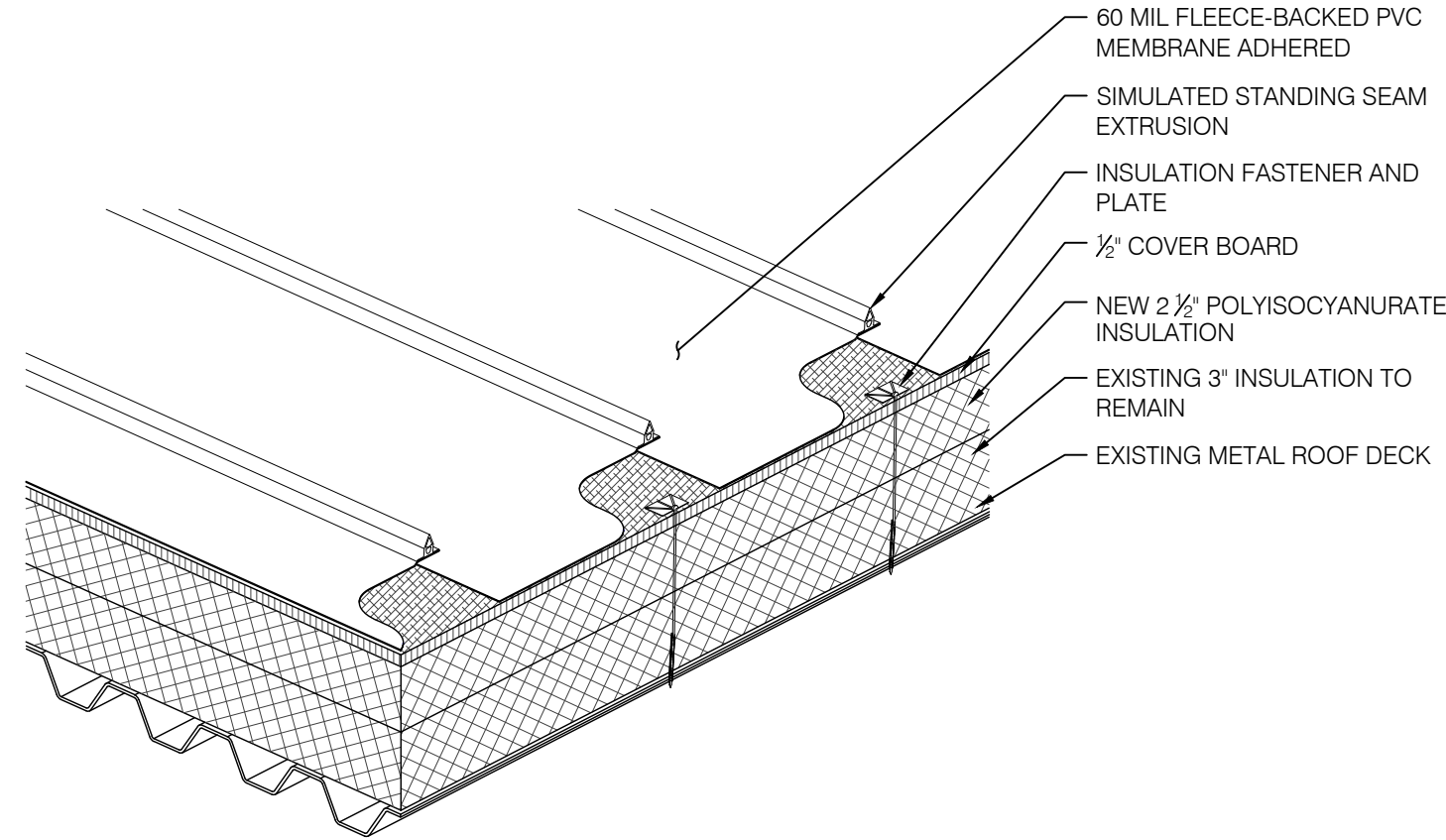
Sheet Title

Sheet No.

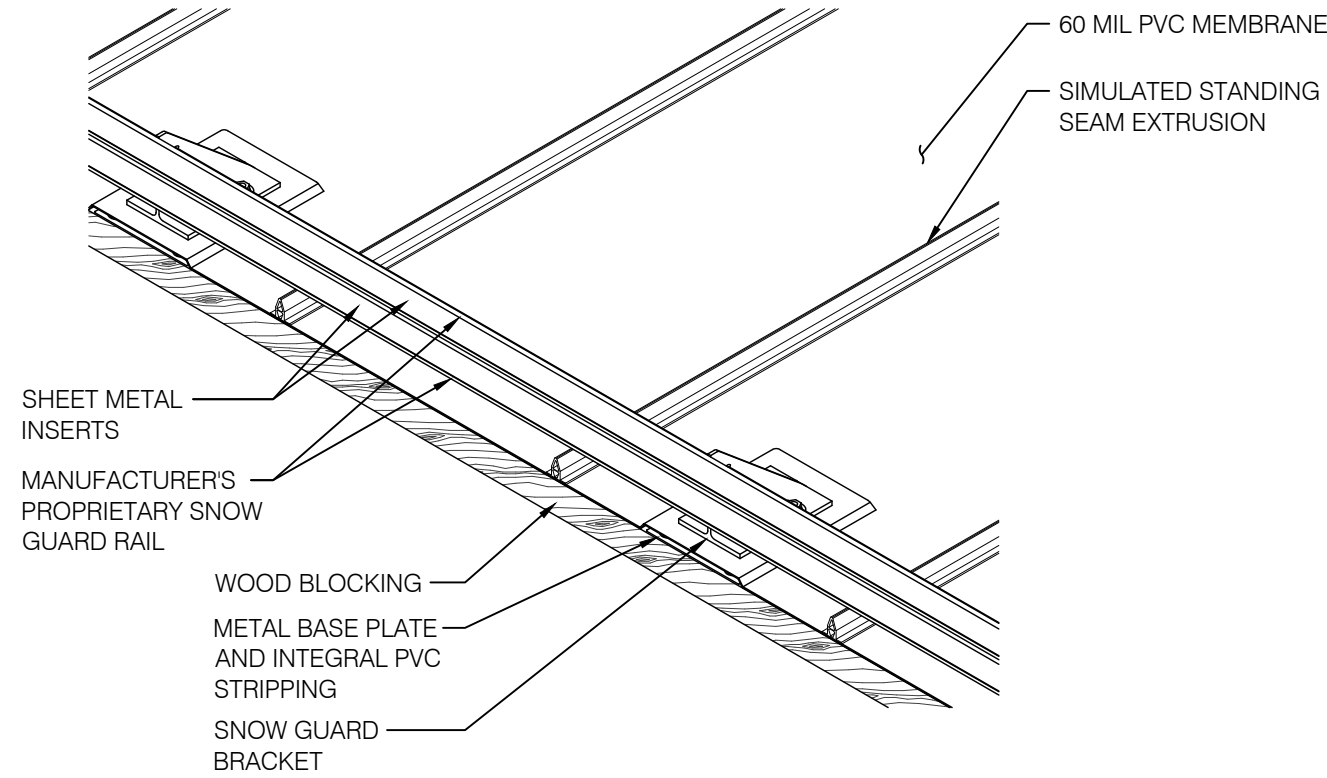
A-2.2

Plotted: 9/17/2018 4:38 PM by Chaijenkit, Tanya File Name: P:\2018\2018.0xxx\2018.0772.0 - TRIPHAWN CENTER ROOF REPLACEMENT RFO (PS)\Drawings\Roof Replacement.dwg

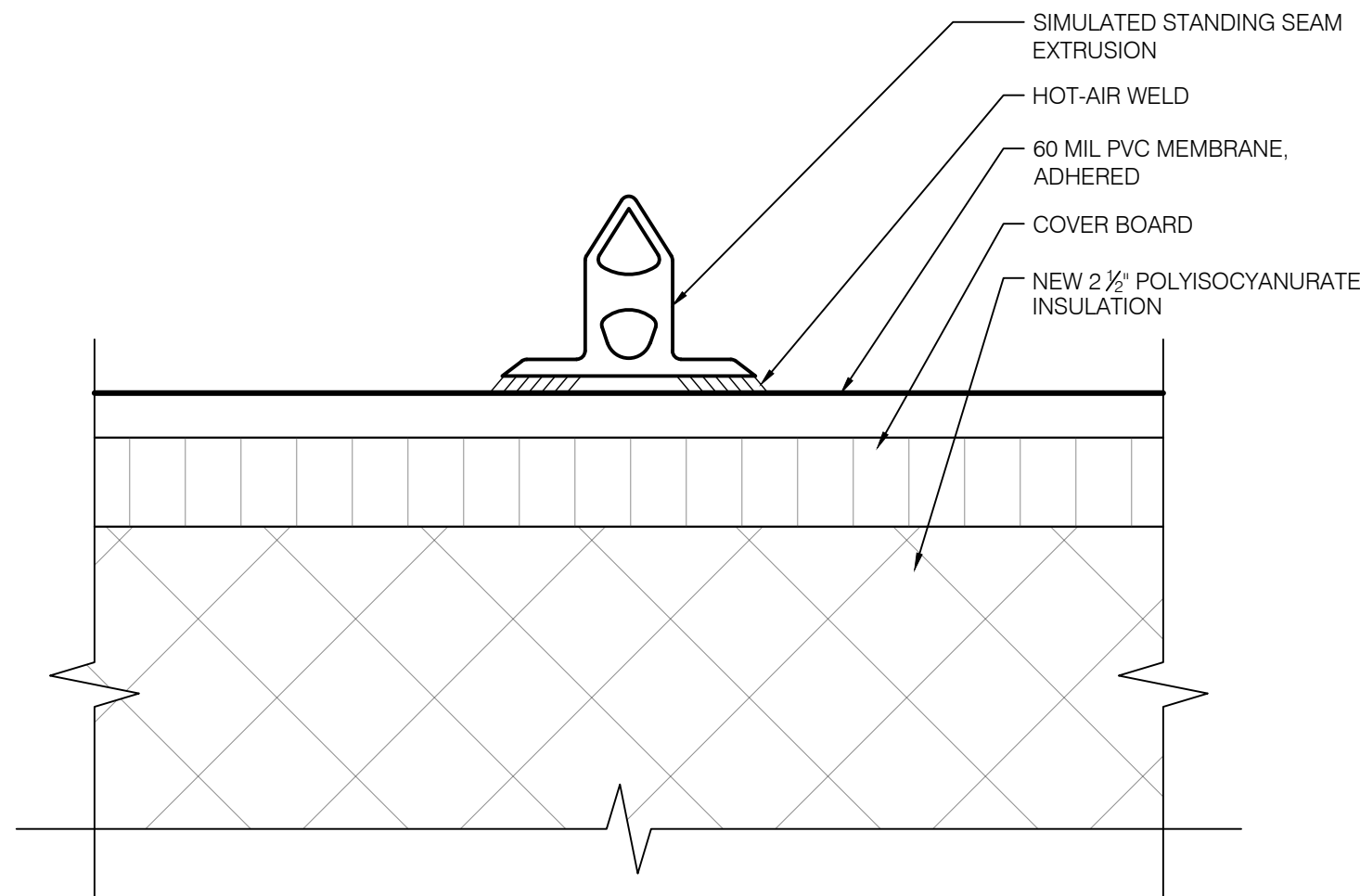
© Copyright 2018. All rights reserved. No part of this document may be reproduced in any form or by any means without permission from Wiss, Janney, Elstner Associates, Inc. (WJE). WJE disclaims any responsibility for its unauthorized use.



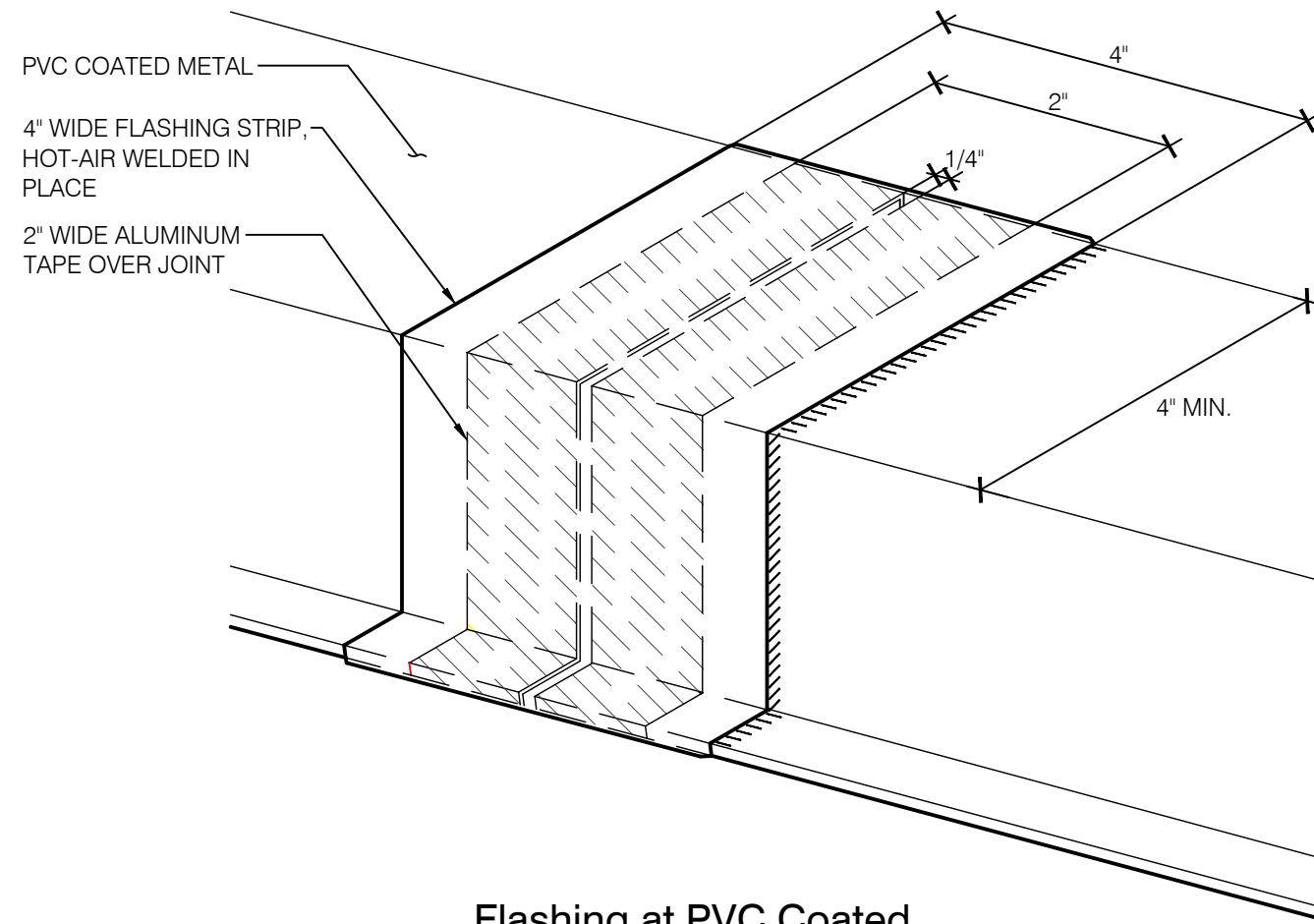
1 **PVC Roof System Detail (Alternate 1)**
Scale: 3" = 1'-0"



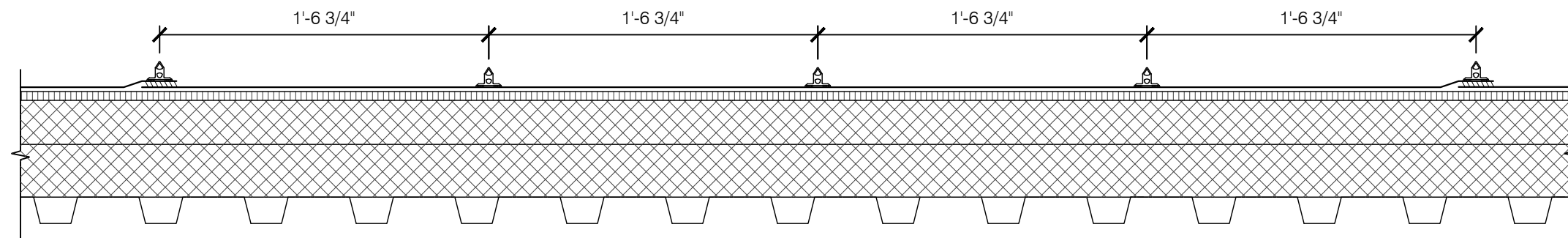
2 **Snow Guard Detail (Alternate 1)**
Scale: N.T.S.



3 **Simulated Standing Seam Profile (Alternate 1)**
Scale: 1'-0" = 1'-0"



4 **Flashing at PVC Coated Metal Joints (Alternate 1)**
Scale: 3" = 1'-0"



5 **Simulated Standing Seam Spacing Layout (Alternate 1)**
Scale: 1 1/2" = 1'-0"

WJE ENGINEERS
ARCHITECTS
MATERIALS SCIENTISTS

Wiss, Janney, Elstner Associates, Inc.
330 Pfingsten Road
Northbrook, Illinois 60062
847.272.7400 tel | 847.480.9534 fax
www.wje.com

Headquarters & Laboratories: Northbrook, Illinois
Atlanta | Austin | Boston | Chicago | Cleveland | Dallas | Denver | Detroit
Honolulu | Houston | Los Angeles | Minneapolis | New Haven | New York
Princeton | San Francisco | Seattle | Washington, D.C.

Project

**Triphahn Center
Roof Replacement**

1685 West Higgins Road
Hoffman Estates, IL 60169

Client

**Hoffman Estates
Park District**

1685 West Higgins Road
Hoffman Estates, IL 60169

	9.17.18	Issued for Bid
Mark	Date	Description

Project No.	2018.0772
Date	September 17, 2018
Drawn	TC
Checked	PS / RAW
Scale	As Shown

**Alternate 1:
PVC Roof Details**

Sheet Title

Sheet No.

A-3.0

Plotted: 9/17/2018 4:38 PM by Chaijenki, Tanya File Name: P:\2018\2018.0xxx\2018.0772.0 - TRIPHAWN CENTER ROOF REPLACEMENT RFQ (PS)\Drawings\Roof Replacement.dwg

© Copyright 2018. All rights reserved. No part of this document may be reproduced in any form or by any means without permission from Wiss, Janney, Elstner Associates, Inc. (WJE). WJE disclaims any responsibility for its unauthorized use.

PVC COATED METAL
WATER DAM

PVC COATED METAL
FASTENED 4" O.C.,
STAGGERED USING 1"
GALVANIZED ANNULAR
RING NAILS OR OTHER
ACCEPTABLE FASTENER

CONTINUOUS CLEAT
(MIN. 22 GA.)

WOOD NAILERS TO
MATCH HEIGHT OF
INSULATION AND COVER
BOARD

PVC FLASHING STRIP, HOT-AIR
WELDED

60 MIL PVC MEMBRANE

COVER BOARD

NEW 2½" POLYISOCYANURATE
INSULATION

EXISTING 3" INSULATION TO
REMAIN

EXISTING METAL ROOF DECK

PVC FLASHING STRIP,
HOT-AIR WELDED

WOOD NAILERS TO
MATCH HEIGHT OF
COVER BOARD

PVC CLAD METAL
FASTENED 4" O.C.,
STAGGERED USING 1"
GALVANIZED ANNULAR
RING NAILS OR OTHER
ACCEPTABLE FASTENER

METAL GUTTER
SUPPORT 24" O.C.

METAL GUTTER

60 MIL PVC MEMBRANE

COVER BOARD

NEW 2½" POLYISOCYANURATE
INSULATION

EXISTING 3" INSULATION TO
REMAIN

EXISTING METAL ROOF DECK

NOTE: REFER TO SHEET A-2.0 FOR
NOTES RELATED TO WALL PANELS

1 Gravel Stop Metal Edge (Alternate 1)

Scale: 3" = 1'-0"

2 Gutter Detail (Alternate 1)

Scale: 3" = 1'-0"

VENT STACK

RAIN COLLAR WITH HIGH
TEMPERATURE SEALANT

STAINLESS STEEL HOSE CLAMP

PVC FLASHING MEMBRANE

SHEET METAL SLEEVE

FIBERGLASS BATT

PVC BASE FLASHING

60 MIL PVC MEMBRANE,
MECHANICALLY ATTACHED

COVER BOARD

NEW 2½" POLYISOCYANURATE
INSULATION

EXISTING 3" INSULATION TO
REMAIN

EXISTING METAL ROOF DECK

3 Vent Stack Flashing (Alternate 1)

Scale: 3" = 1'-0"

SEALANT AT TOP EDGE

STAINLESS STEEL HOSE CLAMP

PLUMBING VENT PENETRATION

PRE-MOLDED PVC PIPE BOOT

60 MIL PVC MEMBRANE,
MECHANICALLY ATTACHED

COVER BOARD

NEW 2½" POLYISOCYANURATE
INSULATION

EXISTING 3" INSULATION TO
REMAIN

EXISTING METAL ROOF DECK

4 Plumbing Vent Detail (Alternate 1)

Scale: 3" = 1'-0"

WJE ENGINEERS
ARCHITECTS
MATERIALS SCIENTISTS

Wiss, Janney, Elstner Associates, Inc.
330 Pfingsten Road
Northbrook, Illinois 60062
847.272.7400 tel | 847.480.9534 fax
www.wje.com

Headquarters & Laboratories: Northbrook, Illinois
Atlanta | Austin | Boston | Chicago | Cleveland | Dallas | Denver | Detroit
Honolulu | Houston | Los Angeles | Minneapolis | New Haven | New York
Princeton | San Francisco | Seattle | Washington, D.C.

Project

**Triphahn Center
Roof Replacement**

1685 West Higgins Road
Hoffman Estates, IL 60169

Client

**Hoffman Estates
Park District**

1685 West Higgins Road
Hoffman Estates, IL 60169

	9.17.18	Issued for Bid
Mark	Date	Description

Project No.	2018.0772
Date	September 17, 2018
Drawn	TC
Checked	PS / RAW
Scale	As Shown

**Alternate 1:
PVC Roof Details**

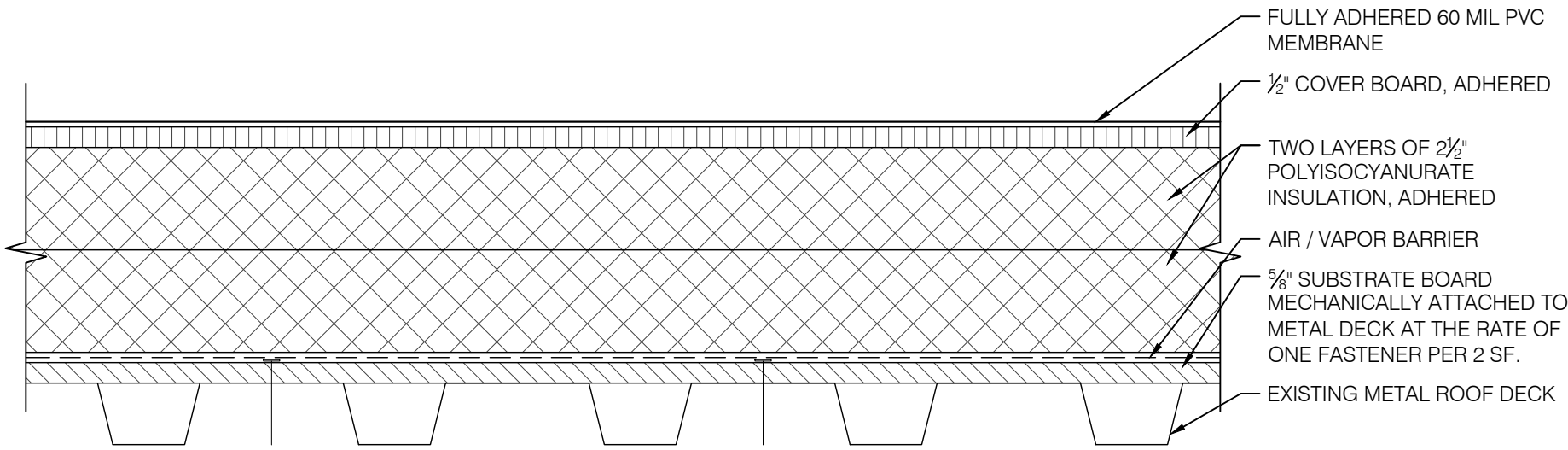
Sheet Title

Sheet No.

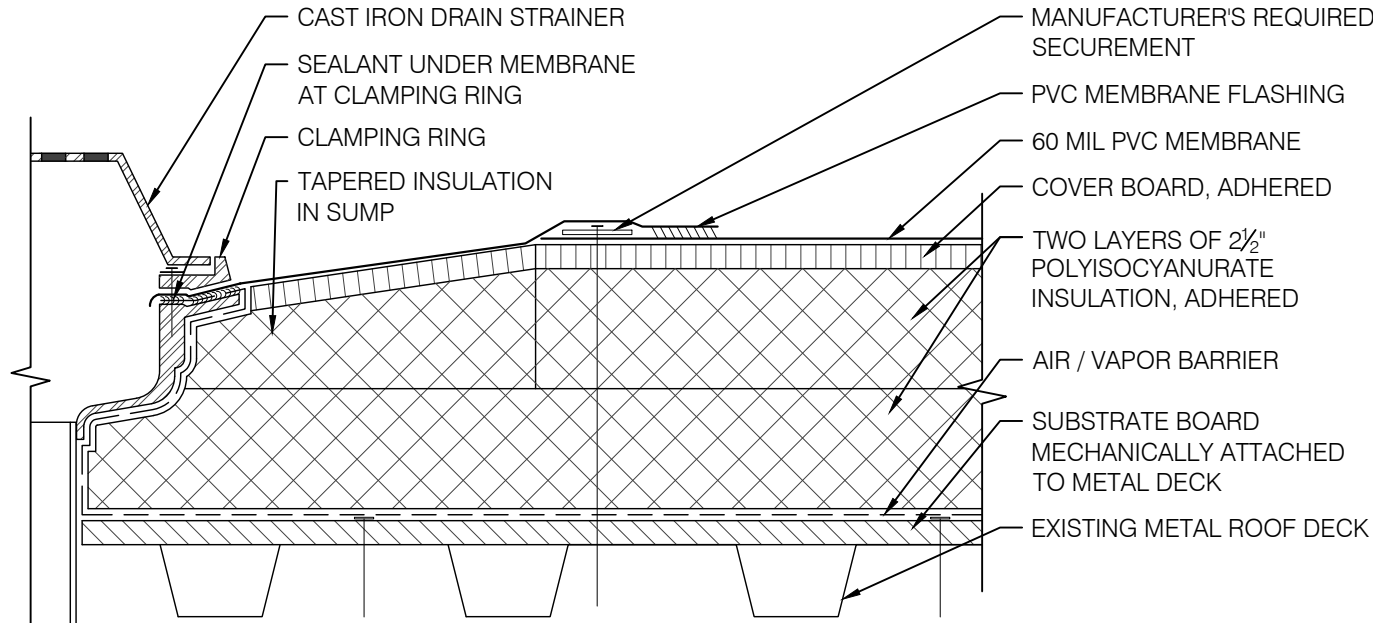
A-3.1

Plotted: 9/17/2018 4:38 PM by Chaijenkit, Tanya File Name: P:\2018\2018.0xxx\2018.0772.0 - TRIPHAWN CENTER ROOF REPLACEMENT RFQ (PS)\Drawings\Roof Replacement.dwg

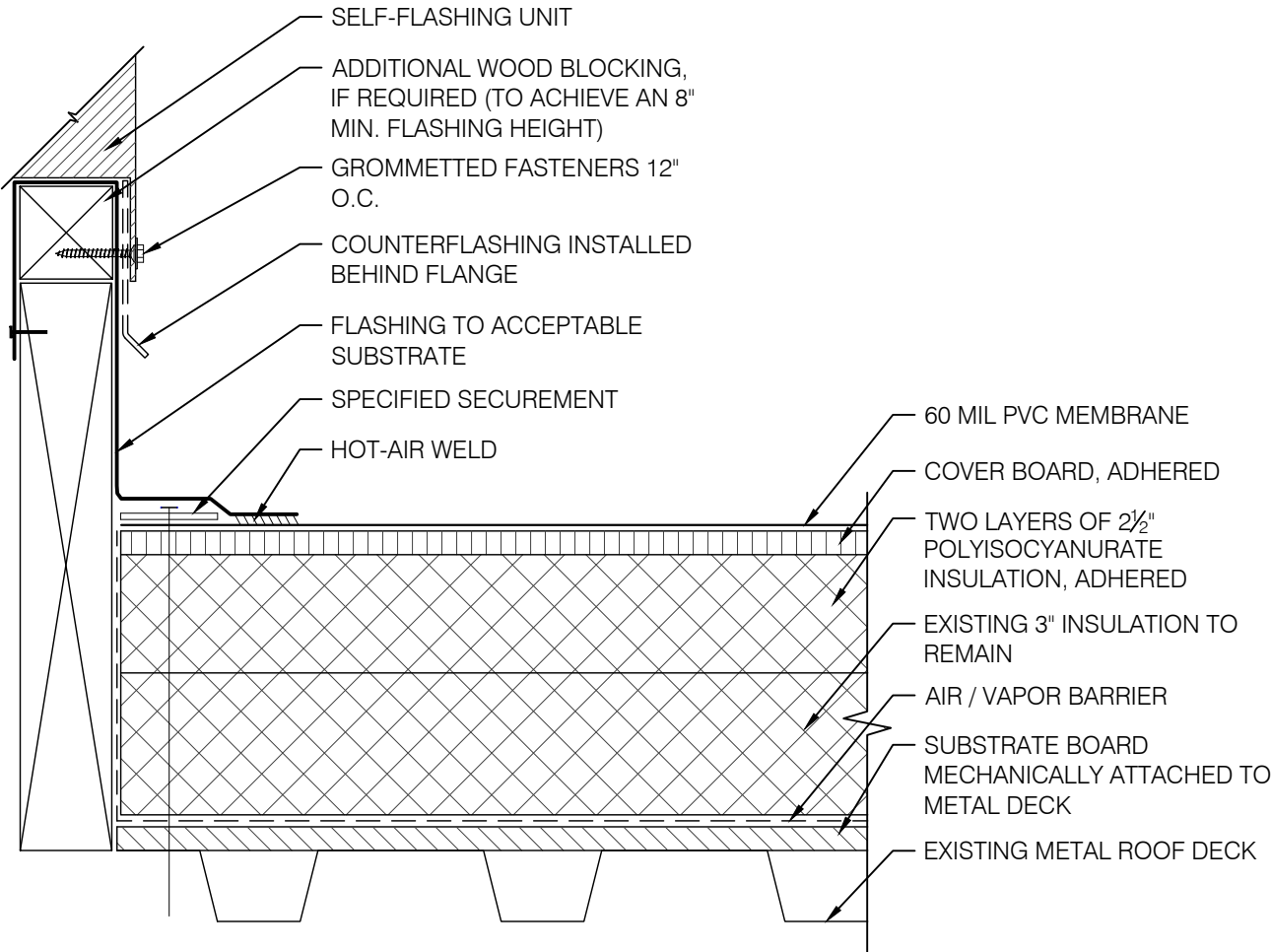
© Copyright 2018. All rights reserved. No part of this document may be reproduced in any form or by any means without permission from Wiss, Janney, Elstner Associates, Inc. (WJE). WJE disclaims any responsibility for its unauthorized use.



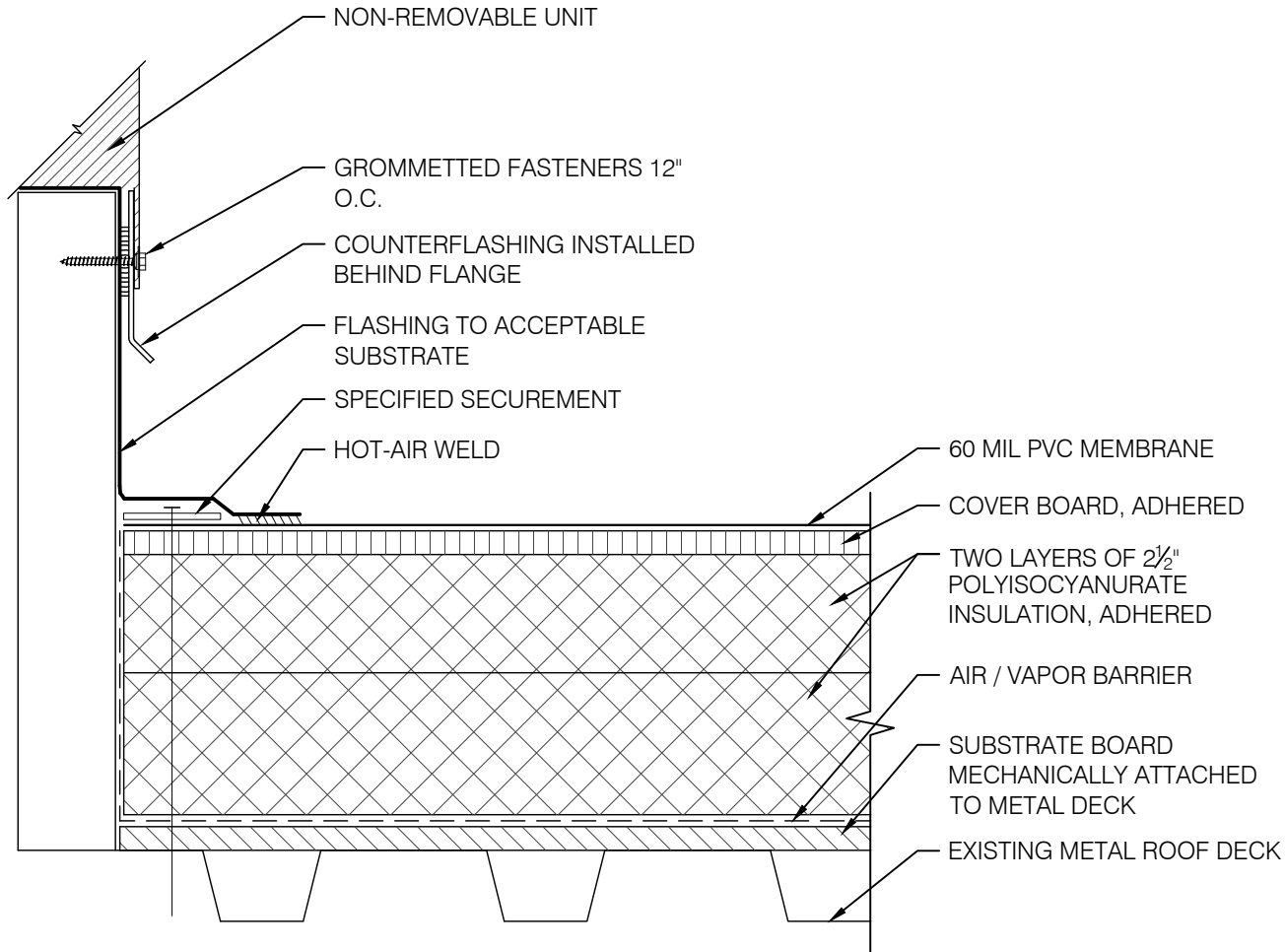
1 Roof System Detail (Alternate 2)
Scale: 3" = 1'-0"



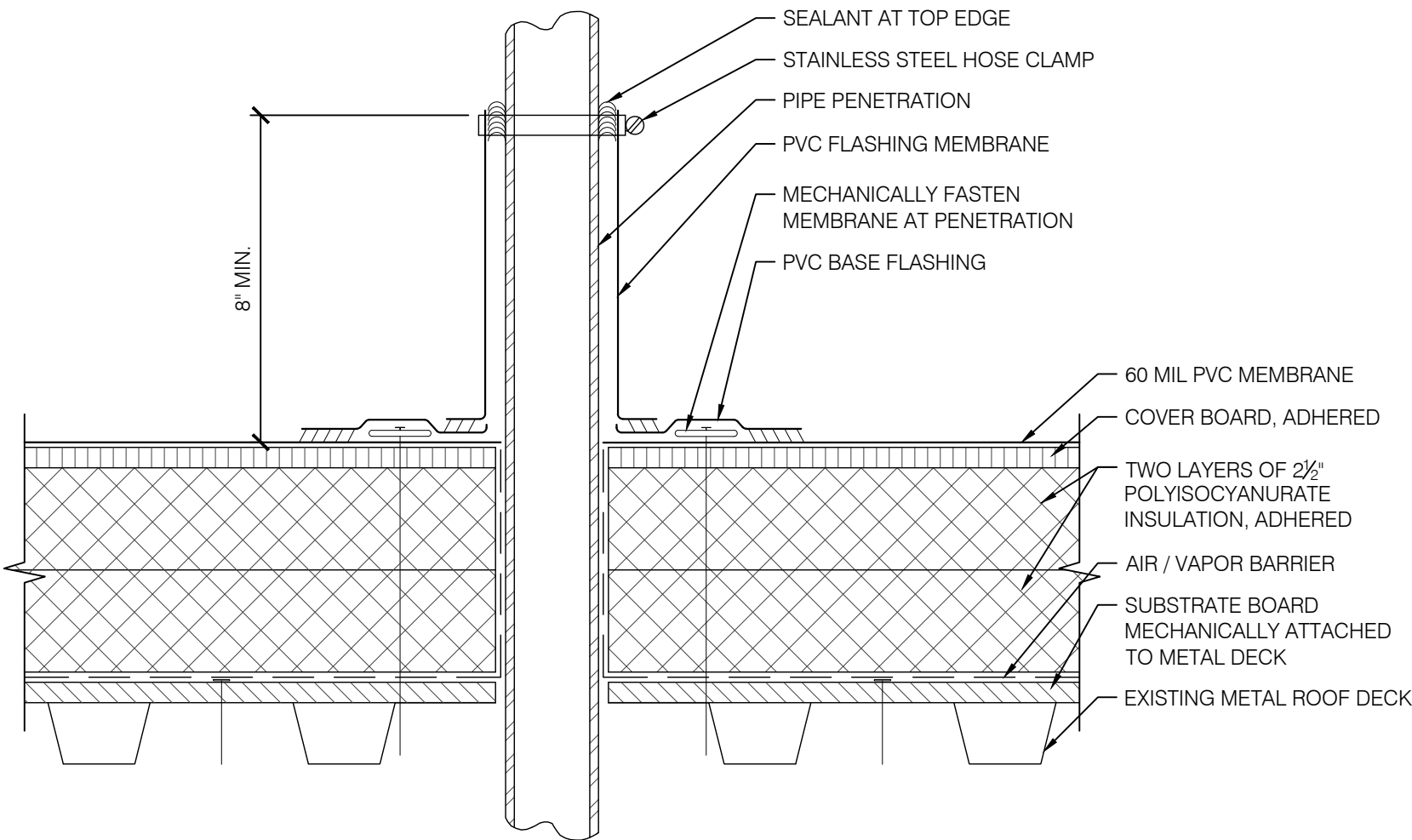
2 Roof Drain Detail (Alternate 2)
Scale: 3" = 1'-0"



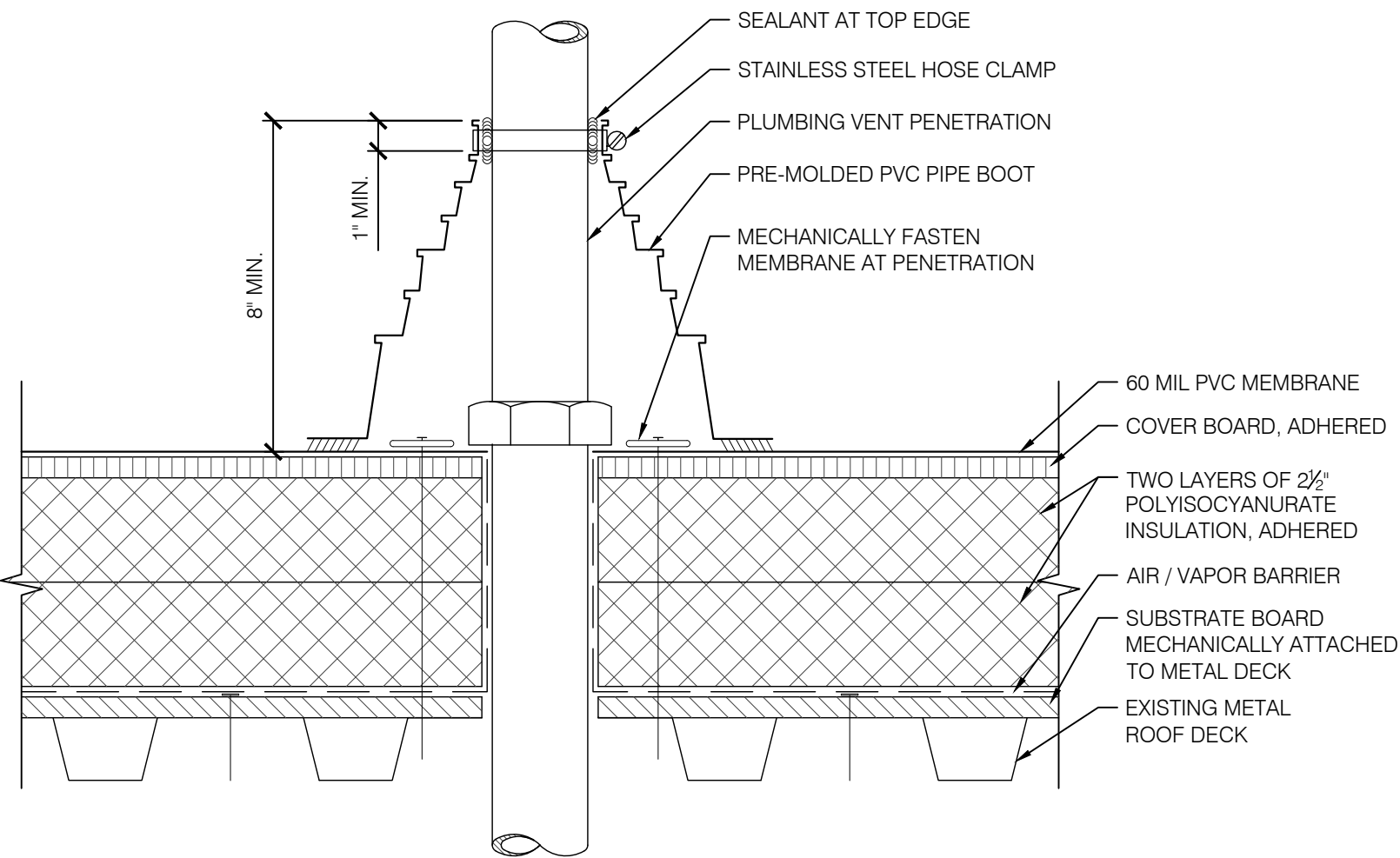
3 Removable Curb Flashing Detail (Alternate 2)
Scale: 3" = 1'-0"



4 Non-Removable Curb Flashing Detail (Alternate 2)
Scale: 3" = 1'-0"



5 Pipe Flashing Detail (Alternate 2)
Scale: 3" = 1'-0"



6 Plumbing Vent Detail (Alternate 2)
Scale: 3" = 1'-0"

WJE ENGINEERS
ARCHITECTS
MATERIALS SCIENTISTS

Wiss, Janney, Elstner Associates, Inc.
330 Pfingsten Road
Northbrook, Illinois 60062
847.272.7400 tel | 847.480.9534 fax
www.wje.com

Headquarters & Laboratories: Northbrook, Illinois
Atlanta | Austin | Boston | Chicago | Cleveland | Dallas | Denver | Detroit
Honolulu | Houston | Los Angeles | Minneapolis | New Haven | New York
Princeton | San Francisco | Seattle | Washington, D.C.

Project
**Triphahn Center
Roof Replacement**

1685 West Higgins Road
Hoffman Estates, IL 60169

Client
**Hoffman Estates
Park District**

1685 West Higgins Road
Hoffman Estates, IL 60169

	9.17.18	Issued for Bid
Mark	Date	Description

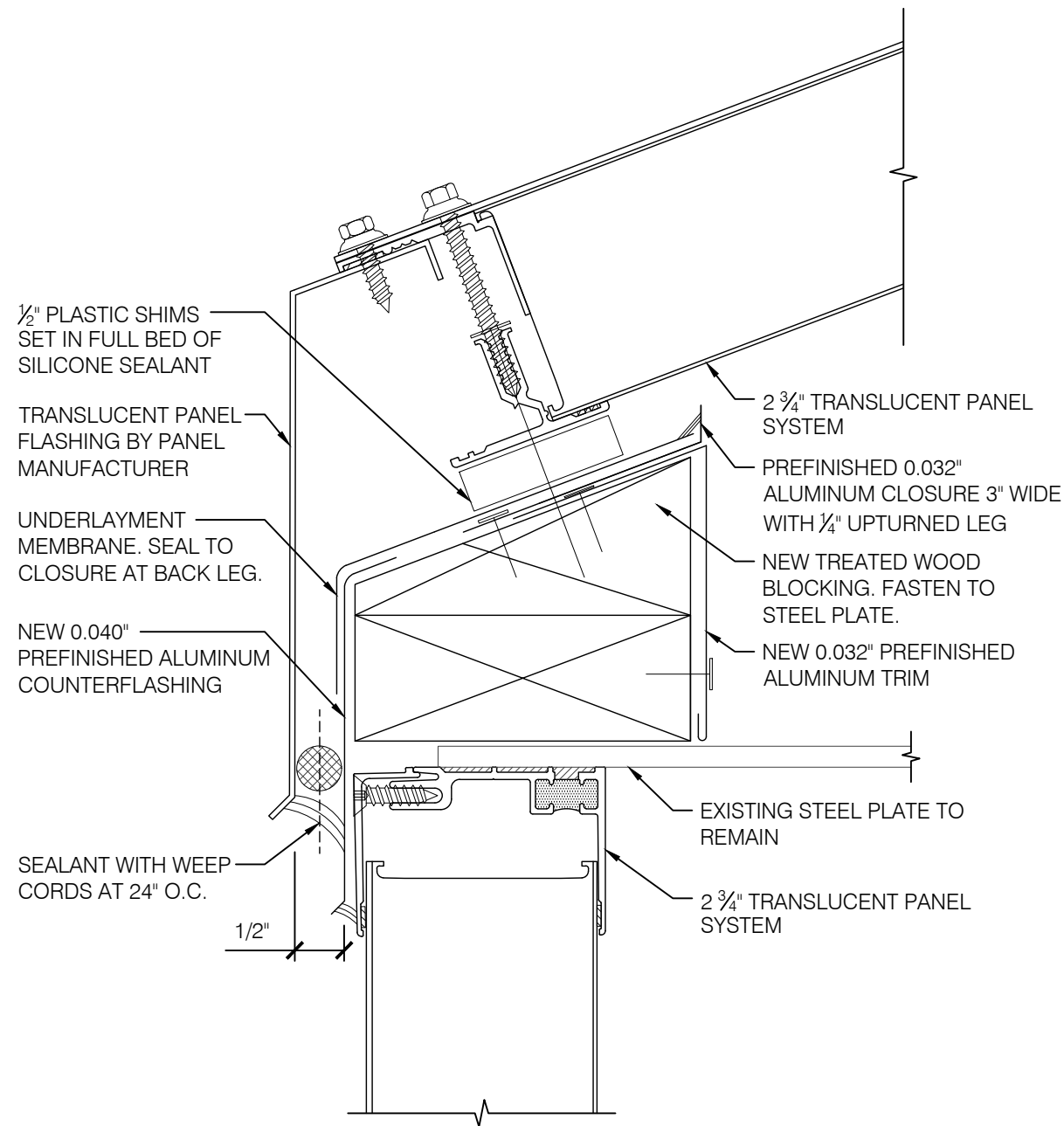
Project No.	2018.0772
Date	September 17, 2018
Drawn	TC
Checked	PS / RAW
Scale	As Shown

**Alternate 2:
PVC Roof Details**

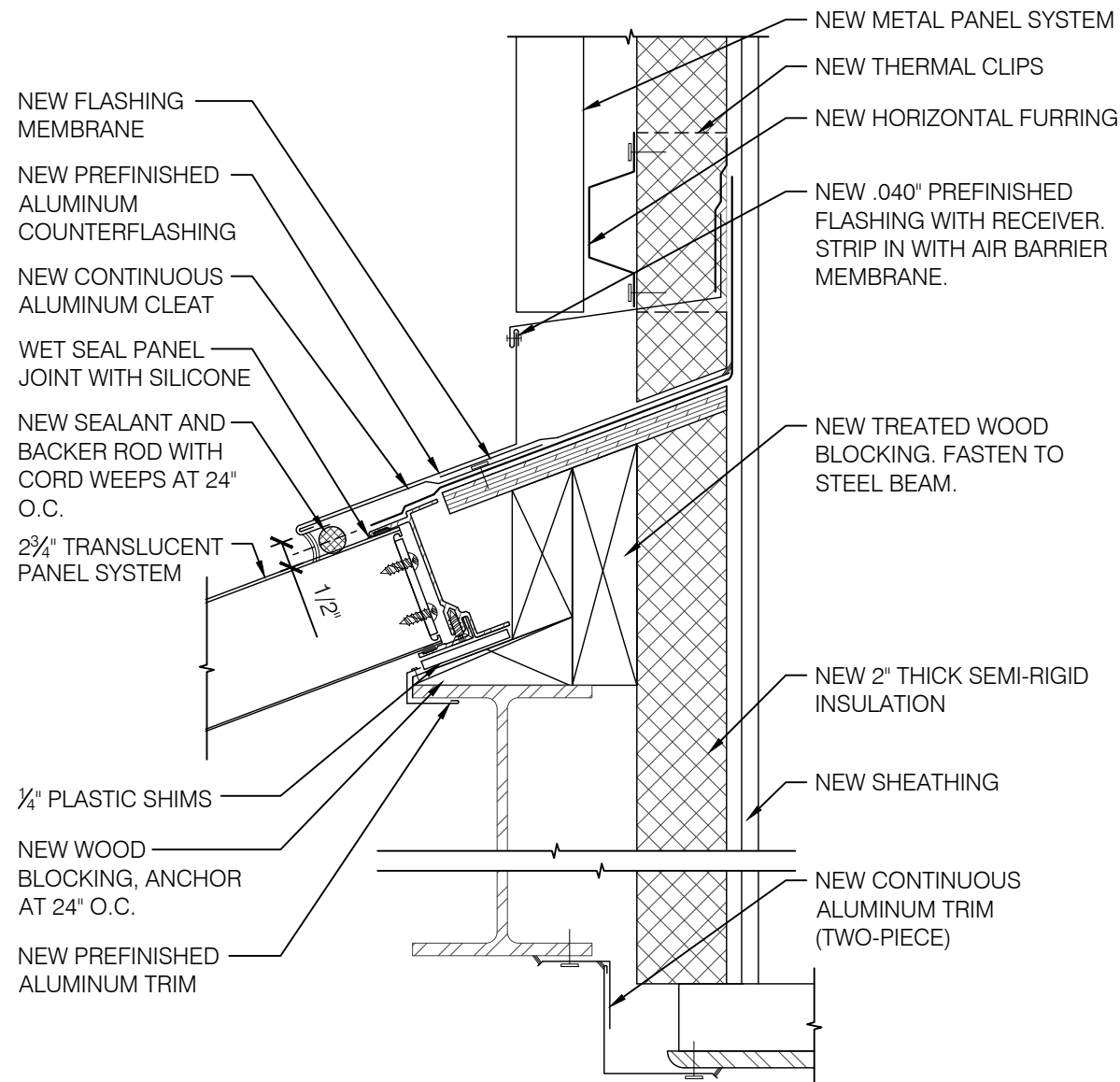
Sheet Title
A-4.0
Sheet No.

Plotted: 9/17/2018 4:38 PM by Chaijenki, Tanya File Name: P:\2018\2018.0xxx\2018.0772.0 - TRIPHAWN CENTER ROOF REPLACEMENT RFQ (PS)\Drawings\Roof Replacement.dwg

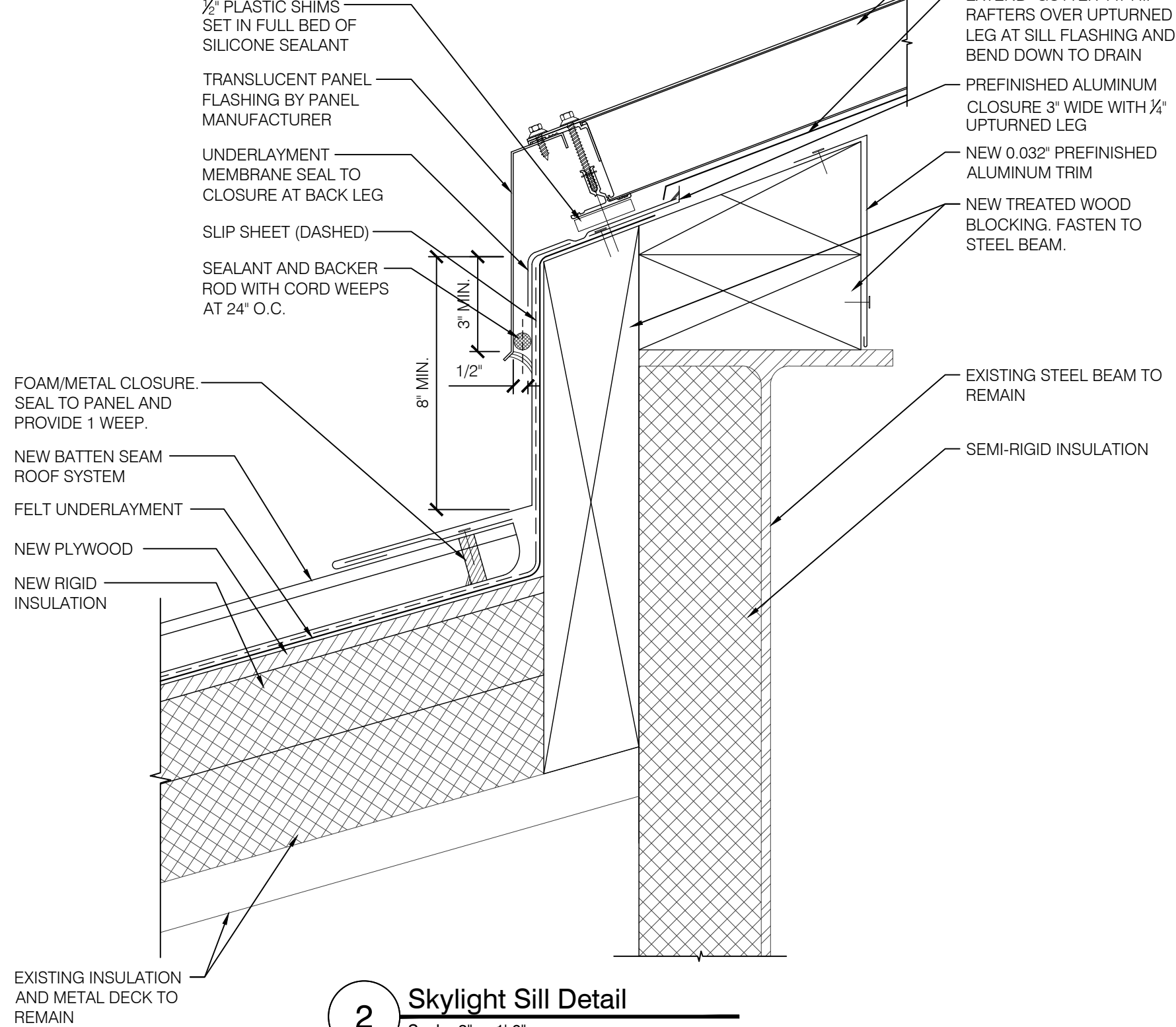
© Copyright 2018. All rights reserved. No part of this document may be reproduced in any form or by any means without permission from Wiss, Janney, Elstner Associates, Inc. (WJE). WJE disclaims any responsibility for its unauthorized use.



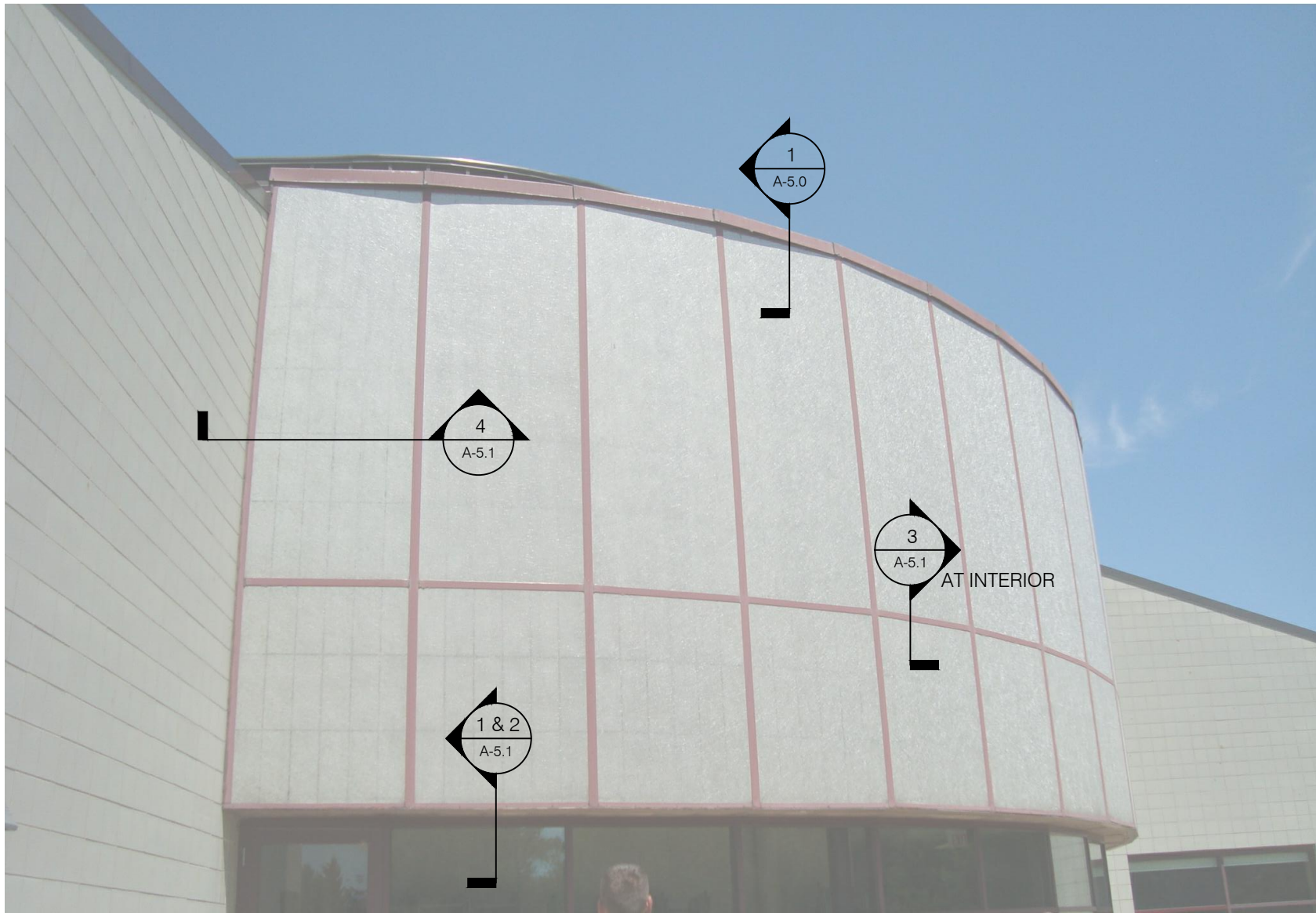
1 Wall Head Detail
Scale: 6" = 1'-0"



3 Skylight Head Detail
Scale: 3" = 1'-0"



2 Skylight Sill Detail
Scale: 3" = 1'-0"



WJE ENGINEERS
ARCHITECTS
MATERIALS SCIENTISTS

Wiss, Janney, Elstner Associates, Inc.
330 Pfingsten Road
Northbrook, Illinois 60062
847.272.7400 tel | 847.480.9534 fax
www.wje.com

Headquarters & Laboratories: Northbrook, Illinois
Atlanta | Austin | Boston | Chicago | Cleveland | Dallas | Denver | Detroit
Honolulu | Houston | Los Angeles | Minneapolis | New Haven | New York
Princeton | San Francisco | Seattle | Washington, D.C.

Project

**Triphahn Center
Roof Replacement**

1685 West Higgins Road
Hoffman Estates, IL 60169

Client

**Hoffman Estates
Park District**

1685 West Higgins Road
Hoffman Estates, IL 60169

	9.17.18	Issued for Bid
Mark	Date	Description

Project No.	2018.0772
Date	September 17, 2018
Drawn	TC
Checked	PS / RAW
Scale	As Shown

**Translucent Panel
Details**

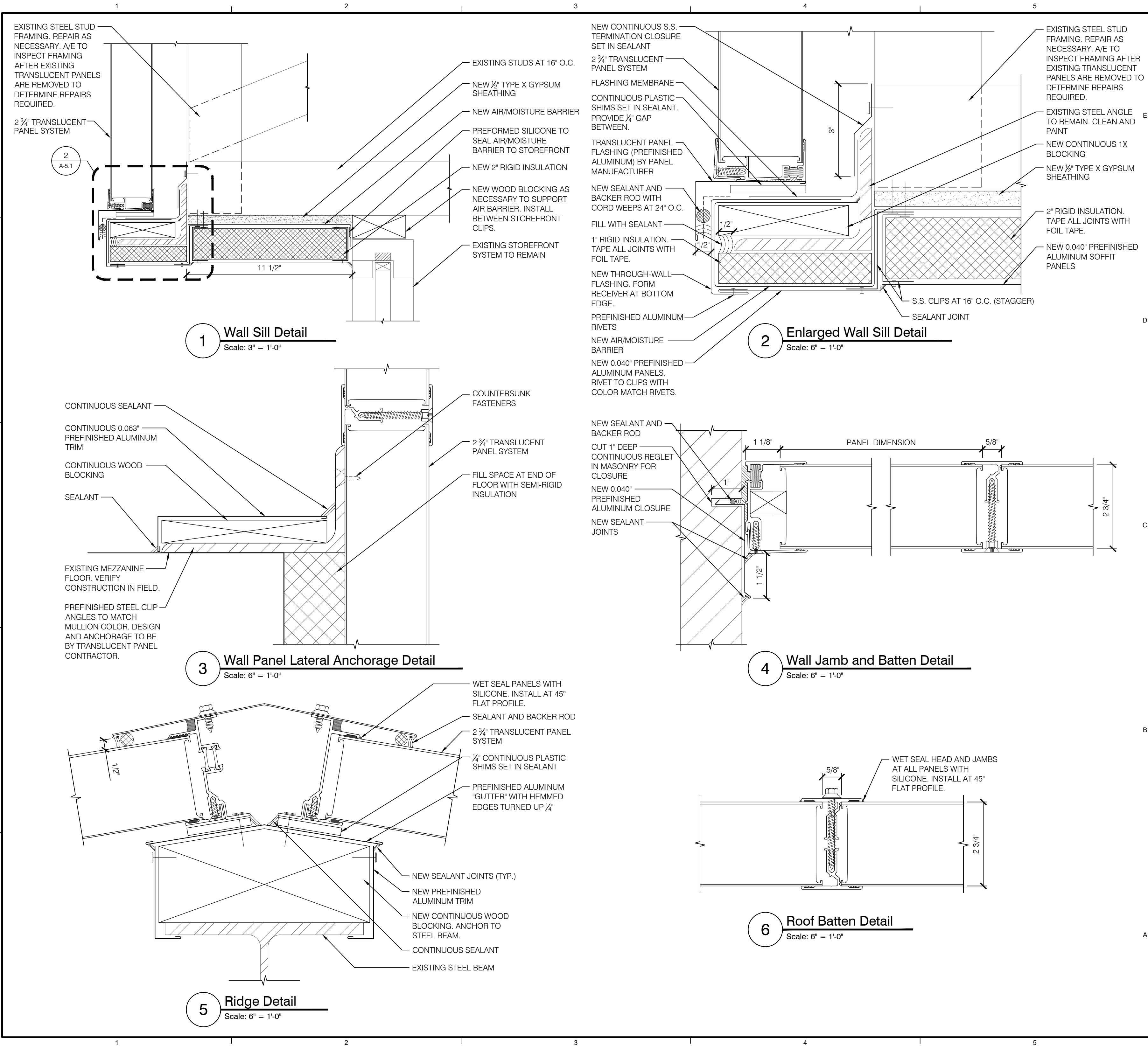
Sheet Title

Sheet No.

A-5.0

Plotted: 9/17/2018 4:38 PM by Chaijenki, Tanya File Name: P:\2018\2018.0xxx\2018.0772.0 - TRIPHAWN CENTER ROOF REPLACEMENT RFQ (RS)\Drawings\Roof Replacement.dwg

© Copyright 2018. All rights reserved. No part of this document may be reproduced in any form or by any means without permission from Wiss, Janney, Elstner Associates, Inc. (WJE). WJE disclaims any responsibility for its unauthorized use.



WJE

ENGINEERS
ARCHITECTS
MATERIALS SCIENTISTS

Wiss, Janney, Elstner Associates, Inc.
330 Pfingsten Road
Northbrook, Illinois 60062
847.272.7400 tel | 847.480.9534 fax
www.wje.com

Headquarters & Laboratories: Northbrook, Illinois
Atlanta | Austin | Boston | Chicago | Cleveland | Dallas | Denver | Detroit
Honolulu | Houston | Los Angeles | Minneapolis | New Haven | New York
Princeton | San Francisco | Seattle | Washington, D.C.

Project

**Triphahn Center
Roof Replacement**

1685 West Higgins Road
Hoffman Estates, IL 60169

Client

**Hoffman Estates
Park District**

1685 West Higgins Road
Hoffman Estates, IL 60169

	9.17.18	Issued for Bid
Mark	Date	Description
Project No.	2018.0772	
Date	September 17, 2018	
Drawn	TC	
Checked	PS / RAW	
Scale	As Shown	

**Translucent Panel
Details**

Sheet Title

Sheet No.

A-5.1