UNION STATION TRANSPORTATION CENTER ROOFING REPAIR/REPLACEMENT

1 UNION PLACE HARTFORD, CT

GHTD PROJECT NO. 02-021 SGH PROJECT NO. 191971.00

BID SET - NOT FOR CONSTRUCTION 3 AUGUST 2020

OWNER:	DRAWING	G CONTENTS:
Greater Hartford Transit District	R-0.0	COVER SHEET
1 Union Place	R-0.1	SITE PLAN
Hartford, CT 06103	R-1.0	OVERALL ROOF PLAN
,	R-1.1	CLAY TILE ROOF PLANS: SOUTH WING
Contact: Ms. LaShaunda Drake	R-1.2	CLAY TILE ROOF PLANS: NORTH WING
E-mail: LDrake@GHTD.org	R-1.3	ASPHALT SHINGLE ROOF PLANS ADD ALT. #AS
	R-1.4	ASPHALT SHINGLE ROOF PLANS ADD ALT. #AS
ENGINEER, DESIGNER OF RECORD:	R-1.5	LOW SLOPE ROOF PLANS AT CENTER WING
Simpson Gumpertz & Heger, Inc.	R-1.6	LOW SLOPE ROOF PLAN AT SOUTH ADDITION
480 Totten Pond Dr.	ASB-1	ACM ASPHALT SHINGLE ROOF PLAN
Waltham, MA 02451	R-2.0	CLAY TILE ROOFING DETAILS
	R-2.1	CLAY TILE ROOFING DETAILS
Contact:	R-2.2	CLAY TILE ROOFING DETAILS
Ms. Katherine Wissink, P.E. (Project Manager)	R-3.0	ASPHALT SHINGLES ROOFING DETAILS ADD
Tel. No.: 781-907-9329		ALT. #AS1 AND #AS3
Cell No.: 781-424-3919	R-3.1	ASPHALT SHINGLES ROOFING DETAILS ADD
E-mail: KSWissink@sgh.com		ALT. #AS1 AND #AS3
	R-4.0	PVC ROOFING DETAILS
Mr. Matthew Bronski, P.E. (Principal)	R-4.1	PVC ROOFING DETAILS
Tel. No.: 781-907-9264	R-5.0	COPPER ROOFING DETAILS ADD ALT. #LS2
Cell No.: 781-424-3946	R-6.0	TYPICAL DETAILS
E-mail: MBBronski@sgh.com	LEGEND:	

• (E) = EXISTING (ITEMS NOT SPECIFICALLY DESIGNATED AS

• GHTD = GREATER HARTFORD TRANSIT DISTRICT

EXISTING ARE PROPOSED)

S.S. = STAINLESS STEEL
N.T.S. = NOT TO SCALE
P.T. = Pressure Treated

TYP. = TYPICALSIM. = SIMILAR

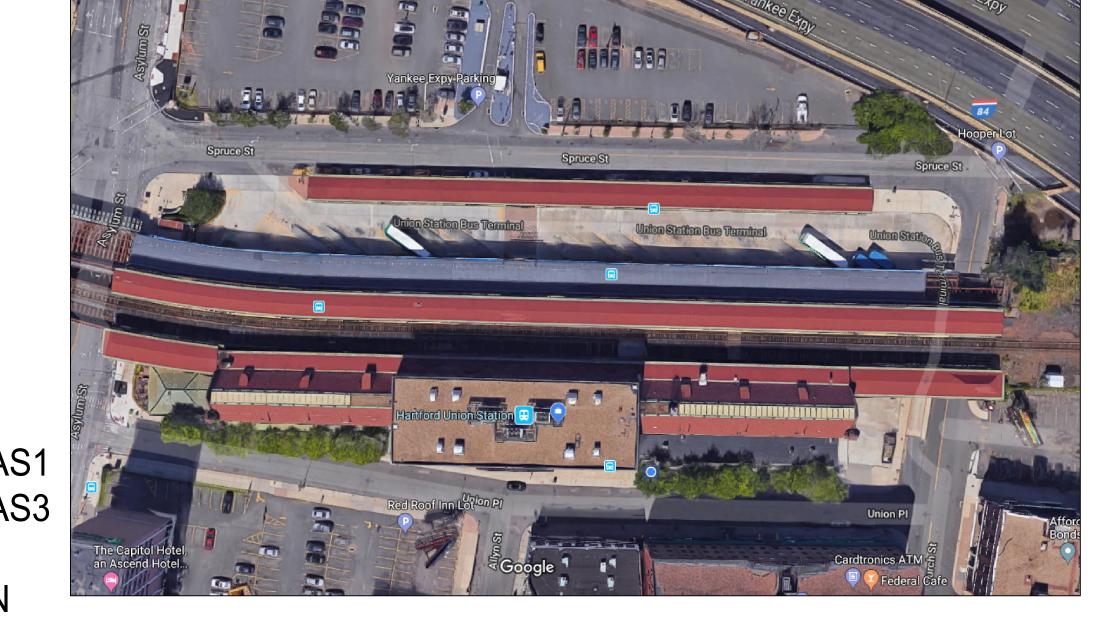
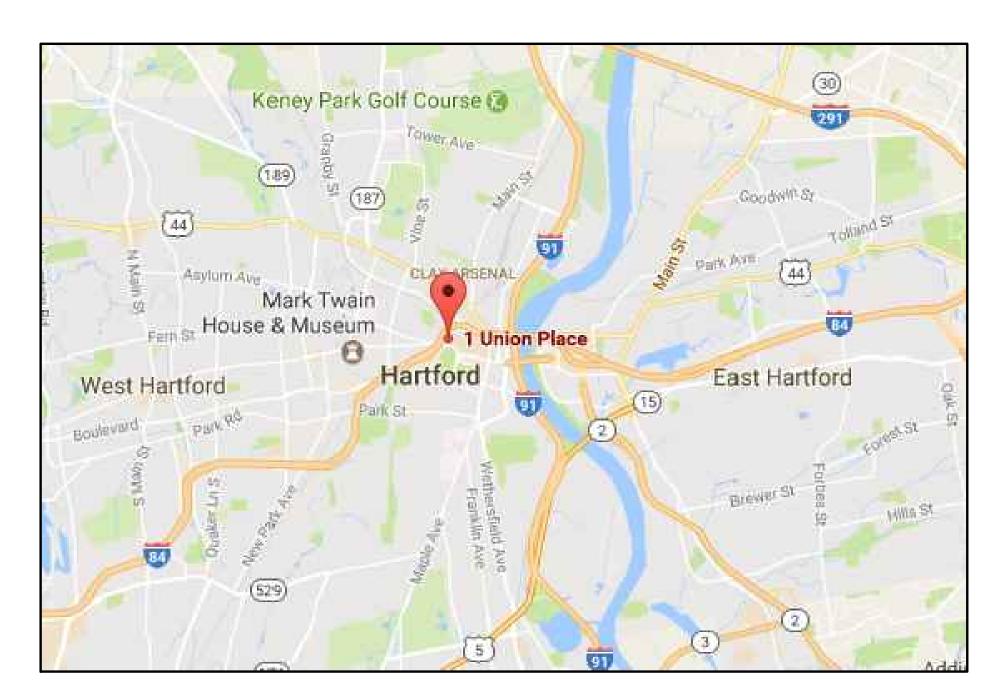


PHOTO: AERIAL VIEW



LOCUS PLAN



Greater Hartford Transit District

GHTD PROJECT NO. 02-021

Consultan

BID SET - NOT FOR CONSTRUCTION

No.	Date	Description	Ву

UNION STATION
TRANSPORTATION
CENTER
ROOFING REPAIR/
REPLACEMENT

1 UNION PLACE, HARTFORD,CT

COVER SHEET

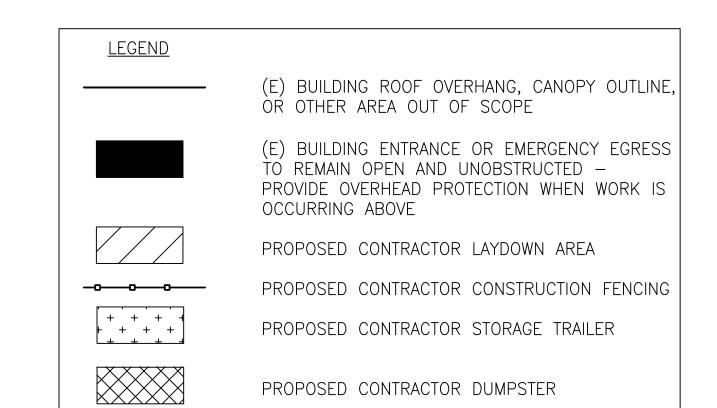
Drawing T

Project No. 191971.00	JCD/KS		Date 08/03/2020
Drawn RML	Approved MBB		Scale AS NOTED
		Drawing	No.

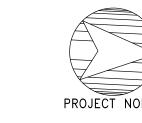
R-0.0

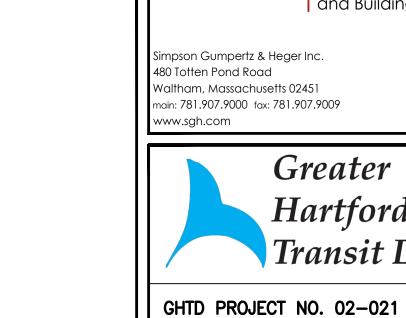
SITE USAGE AND LOGISTICS

- 1. Provide construction fence as shown and as additionally required to fully cordon off areas when work is occurring. Maintain minimum 4' width of
- 2. Coordinate lay down areas and location of site fencing with GHTD and provide shop drawings confirming locations prior to start of construction. 3. Protect all existing landscaping from damage. Provide protection around
- all trees. 4. Maintain access/egress from all building entrances at all times throughout the project. Provide overhead protection when work is occurring above.
- 5. Sidewalk to remain open to pedestrians throughout construction. 6. Maintain vehicular drive lanes and parking spaces throughout construction.
- Coordinate any temporary closures with GHTD. 7. Limited Contractor laydown areas available. Possible Contractor laydown sites as noted on the site plan below.
- 8. Assume no Contractor parking provided by owner.
- 9. Businesses within the building will remain open throughout construction. Access to and from the building must be unobstructed at all times.
- 10. Proposed laydown area is on an elevated structure, not on grade, and is provided as—is. Contractor is responsible for verifying capacity of structure to support loads if used as a laydown area.
- 11. Proposed laydown area is on-grade beneath the Bus Canopy Roof (not on the Canopy Roof).
- 12. Proposed location of storage trailer beneath tracks.



PROPOSED CONTRACTOR DUMPSTER





Greater Hartford Transit District

Engineering of Structures

Chicago Houston

Los Angeles New York

San Francisco

Washington, DC

and Building Enclosures

SIMPSON GUMPERTZ & HEGER

Consultant

CONSTRUCTION NOT FOR SET BID

No.	Date	Description	Ву
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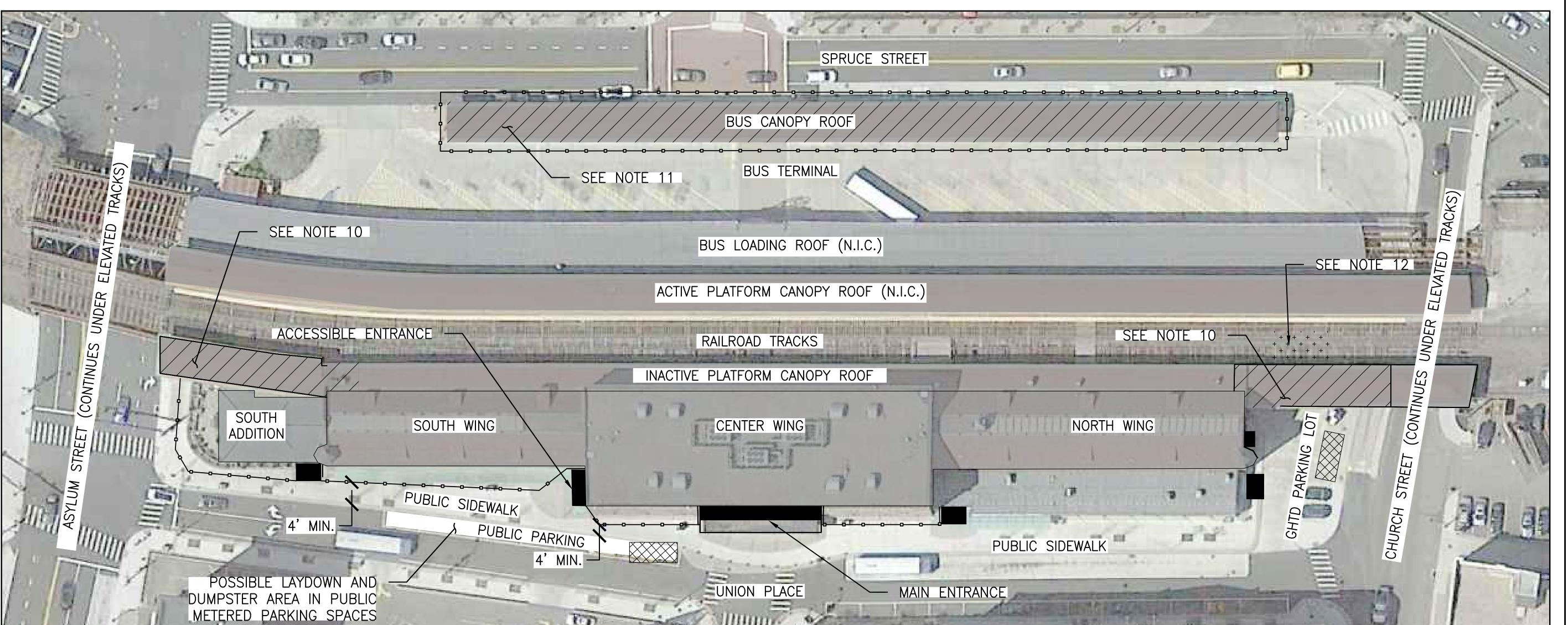
UNION STATION TRANSPORTATION CENTER **ROOFING REPAIR/ REPLACEMENT** 1 UNION PLACE,

SITE PLAN

HARTFORD,CT

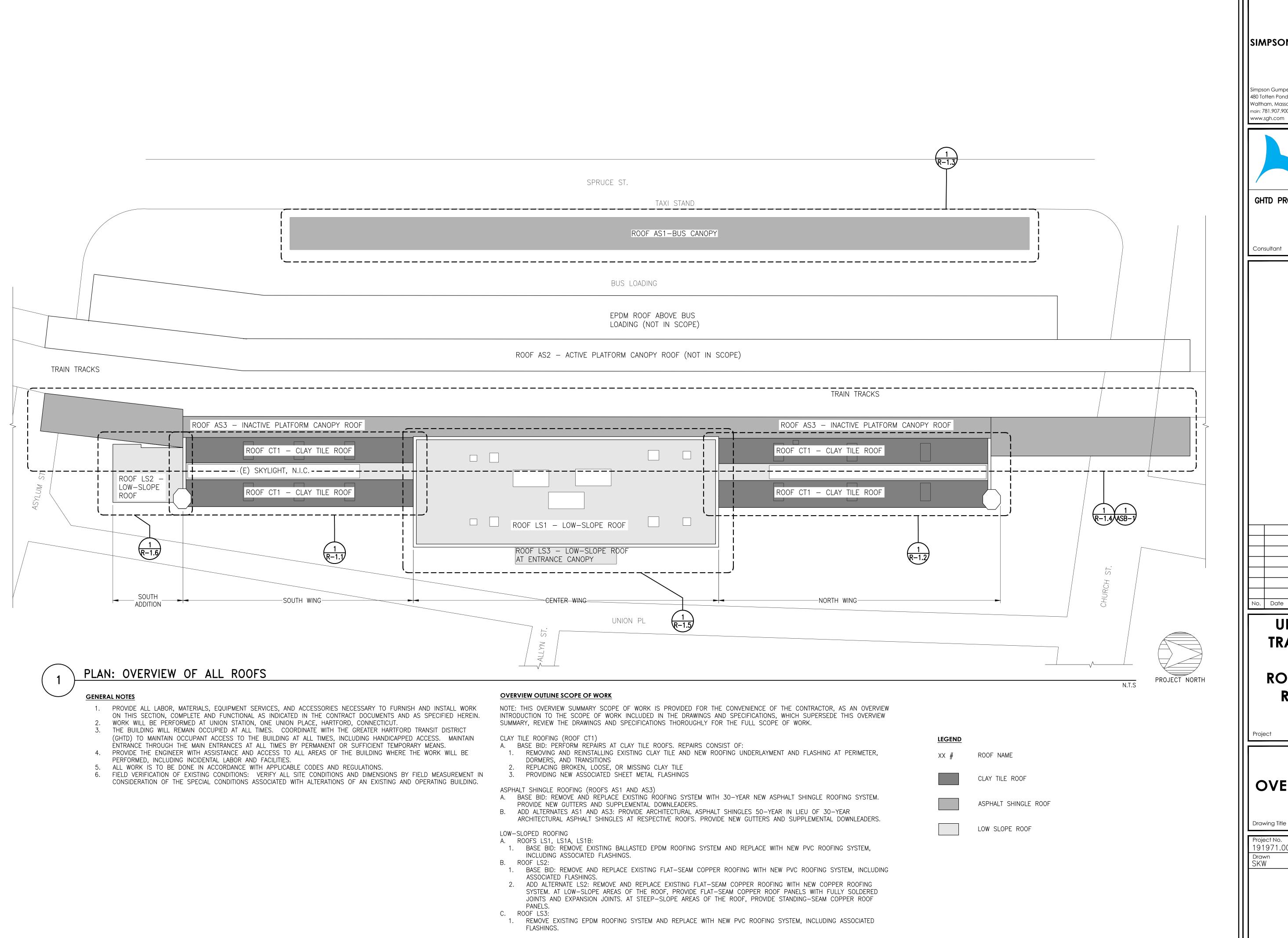
Project No. 191971.00	Checked JCD/KSW		Date 08/03/2020
Drawn RML	Approved MBB		Scale AS NOTED
		Drawing	No.

R-0.1



SITE PLAN

SCALE: NTS



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Simpson Gumpertz & Heger Inc. 480 Totten Pond Road Waltham, Massachusetts 02451 main: 781.907.9000 fax: 781.907.9009

Los Angeles New York Washington, DC



GHTD PROJECT NO. 02-021

Consultant

CONSTRUCTION SET

UNION STATION TRANSPORTATION CENTER ROOFING REPAIR/ **REPLACEMENT**

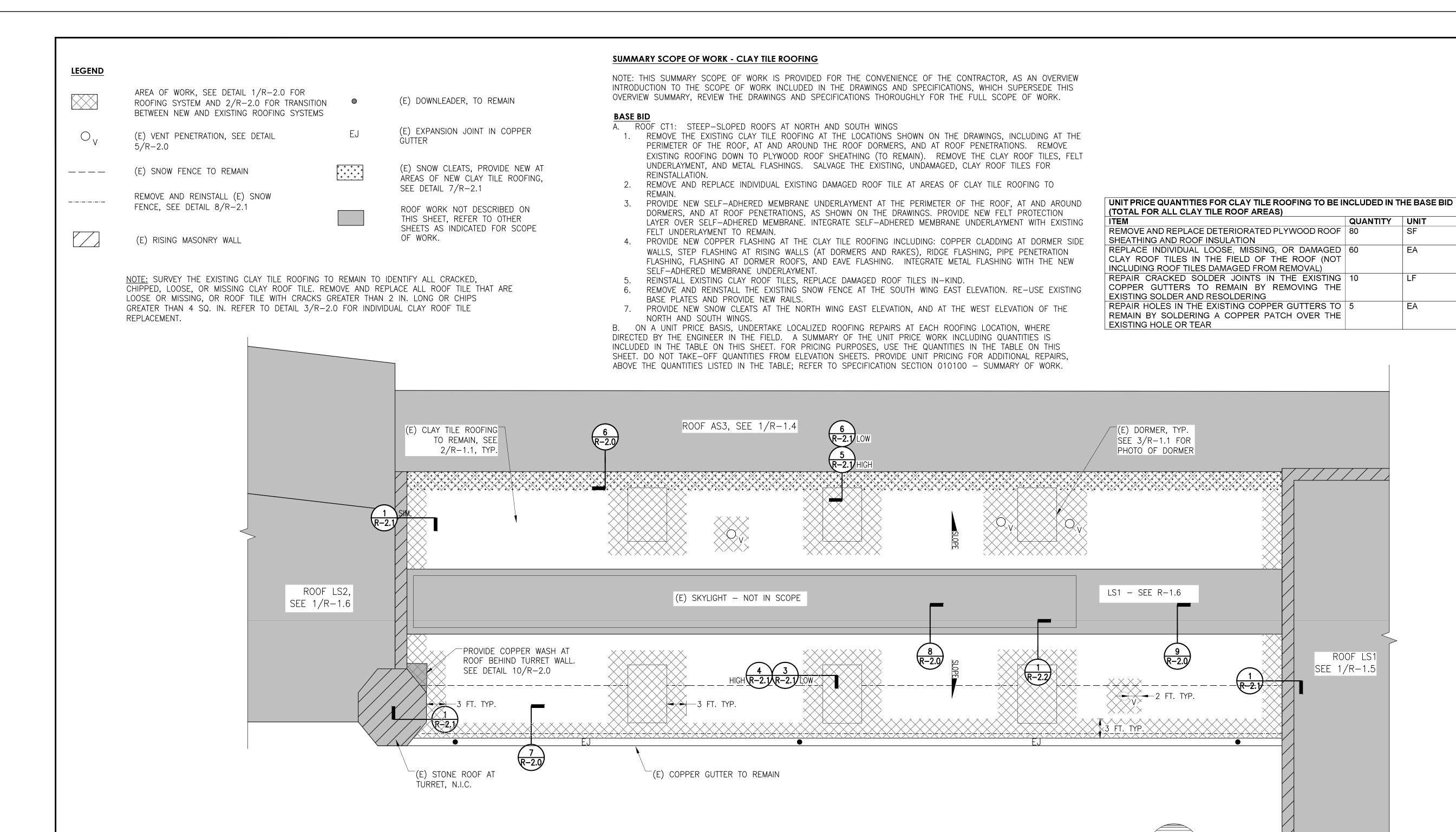
Description

1 UNION PLACE, HARTFORD,CT

OVERALL ROOF PLAN

Drawing Title

•					
ı		Project No.	Checked		Date
		191971.00	RML		08/03/2020
		Drawn SKW	Approved MBB	T.	Scale AS NOTED
I				Drawing	No.



PLAN: CLAY TILE ROOFS CT1

KEY PLAN

PROJECT NORTH

(E) CLAY TILE SPANISH-STYLE SHINGLES; REMOVE, SALVAGE, AND STORE AT ROOF AREAS SHOWN (E) 30# ASPHALT-SATURATED FELT UNDERLAYMENT; REMOVE AND REPLACE AT SHINGLE REMOVAL LOCATIONS (E) 5/8 " PLYWOOD

(E) POLYISOCYANURATE INSULATION, 2 IN., WITH 2" O.C. RUNNING PARALLEL TO ROOF SLOPE (NOT SHOWN).

NOTE: EXISTING ROOF SLOPE IS 45 DEG.

EXISTING ROOFING SYSTEM

THICK WOOD SLEEPERS AT 24"

(E) GYPSUM CONCRETE PLANK

PHOTO OF (E) DORMER

N.T.S.

SCALE: 1/8" = 1'-0

PROJECT NORTH

WORK AREA

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CONSTRUCTION FOR 0 Z SET

No. Date

UNION STATION TRANSPORTATION CENTER ROOFING REPAIR/ REPLACEMENT

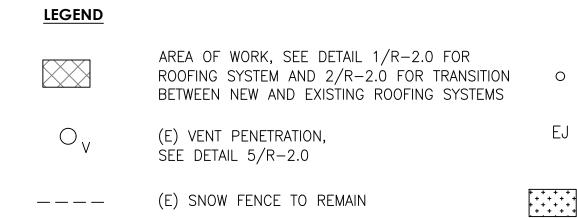
1 UNION PLACE, HARTFORD,CT

CLAY TILE ROOF PLANS: SOUTH WING

Drawing Title

Checked JCD/KSW 191971.00 08/03/2020 Approved MBB Scale AS NOTED Drawing No.

R1.1



FENCE, SEE DETAIL 8/R-2.1

(E) RISING MASONRY WALL

(E) SNOW FENCE TO REMAIN

(E) SNOW CLEATS, PROVIDE NEW AT AREAS OF NEW CLAY TILE ROOFING, SEE DETAIL 7/R-2.1

ROOF WORK NOT DESCRIBED ON THIS SHEET, REFER TO OTHER SHEETS AS INDICATED FOR SCOPE OF WORK.

(E) DOWNLEADER, TO REMAIN

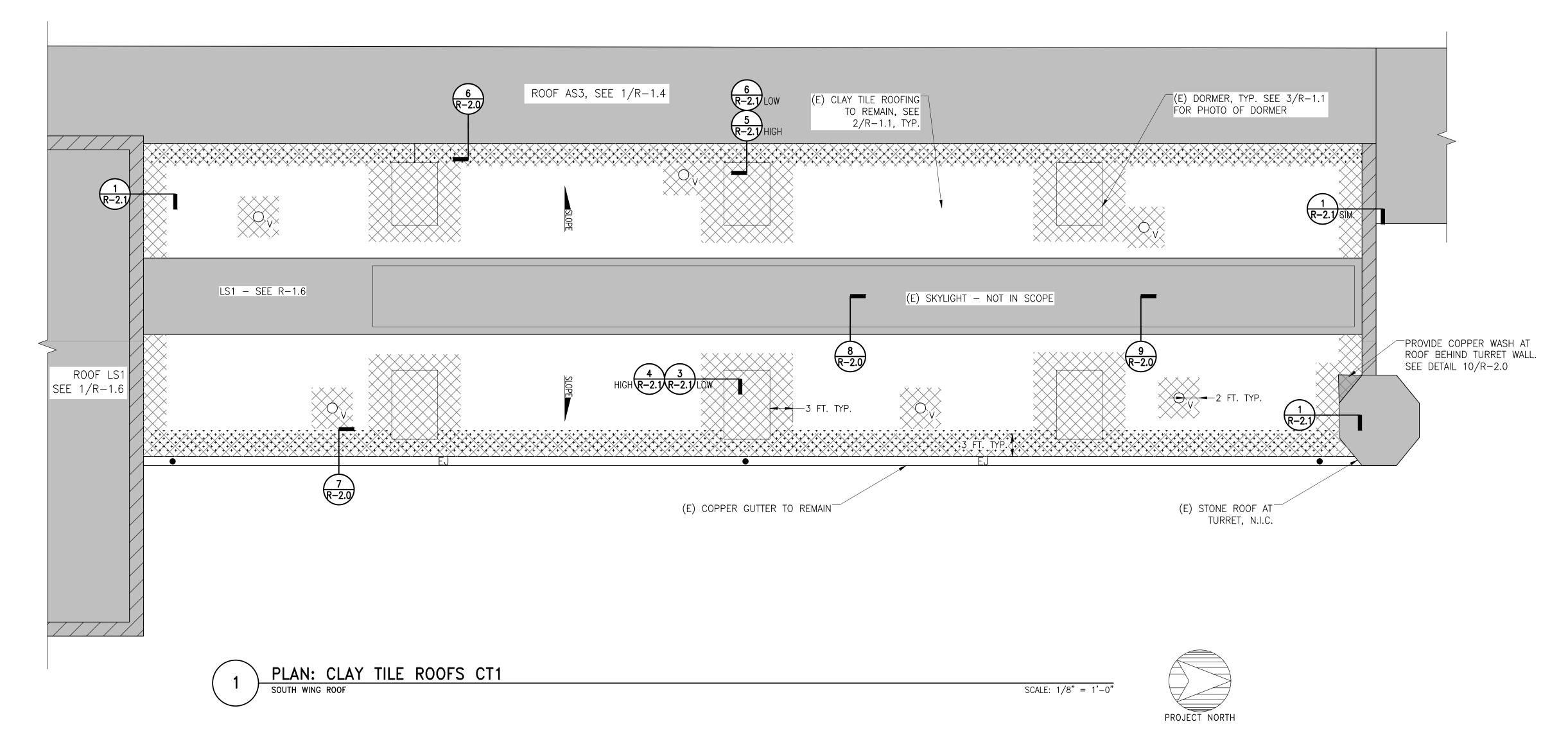
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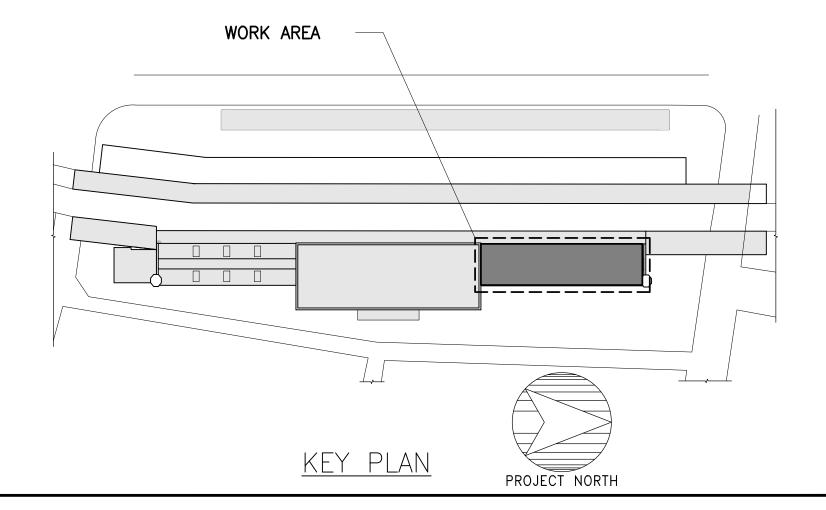
(E) EXPANSION JOINT IN COPPER

NOTES:

1. SURVEY THE EXISTING CLAY TILE ROOFING TO REMAIN TO IDENTIFY ALL CRACKED, CHIPPED, LOOSE, OR MISSING CLAY ROOF TILE. REMOVE AND REPLACE ALL ROOF TILE THAT ARE LOOSE OR MISSING, OR ROOF TILE WITH CRACKS GREATER THAN 2 IN. LONG OR CHIPS GREATER THAN 4 SQ. IN. REFER TO DETAIL 3/R-2.0 FOR INDIVIDUAL CLAY ROOF TILE REPLACEMENT.

2. SEE R-1.1 FOR SUMMARY SCOPE OF WORK.







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1 UNION PLACE,
HARTFORD,CT

CLAY TILE ROOF PLANS: NORTH WING

Drawing Title

Project No.	Checked		Date	
191971.00	JCD/KS	SW	08/03/2020	
Drawn RML	Approved MBB		Scale AS NOTED	
		Drawing	No.	
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R-1.2



(E) DOWNLEADER, TO REMAIN

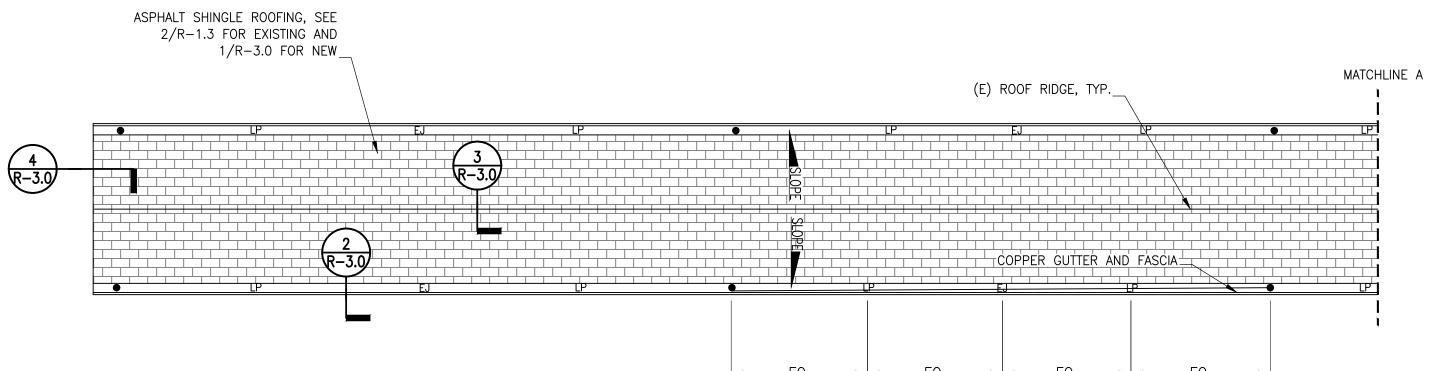
(E) DUCT. SEE DETAIL 10/R-3.0

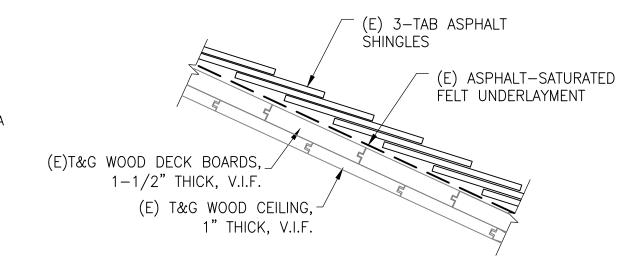
EXPANSION JOINT IN COPPER GUTTER. SEE DETAIL 1/R-3.1

LOW-PROFILE EXPANSION JOINT IN COPPER GUTTER, SEE DETAIL 2/R-3.1

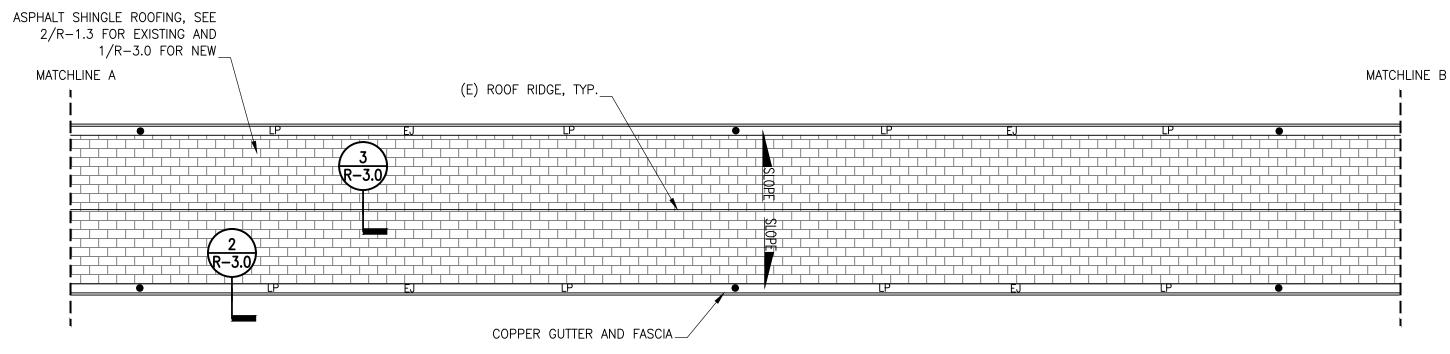
(E) RISING MASONRY WALL

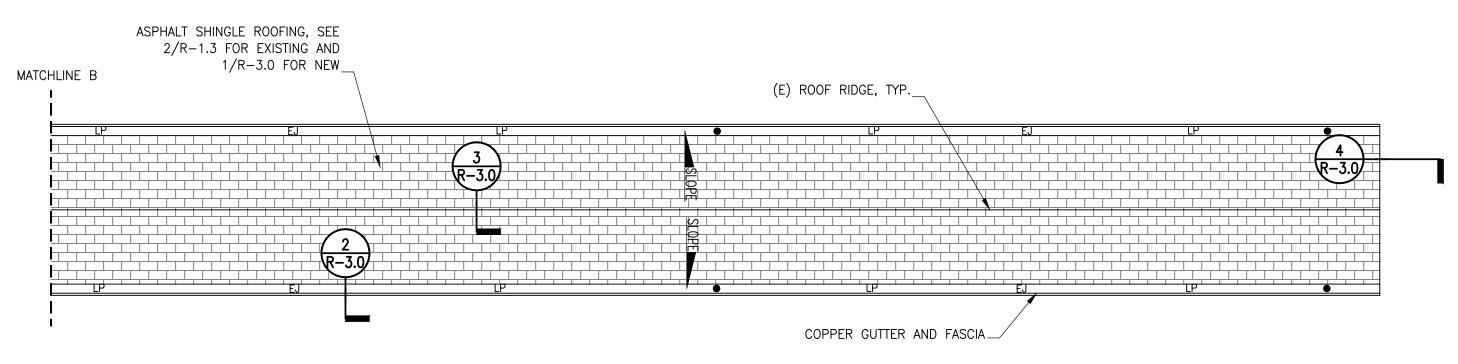
ROOF WORK NOT DESCRIBED ON THIS SHEET. REFER TO OTHER SHEETS AS INDICATED FOR SCOPE OF WORK.





EXISTING ROOFING SYSTEM





NOTE: BIRD NETTING NOT PRESENT AT THIS ROOF

PLAN: ASPHALT SHINGLE ROOF - ADD ALTERNATE AS1

SCALE: 3/32" = 1'-0

SUMMARY SCOPE OF WORK - ADD ALTERNATE AS1 AND AS3:

NOTE: THIS SUMMARY SCOPE OF WORK IS PROVIDED FOR THE CONVENIENCE OF THE CONTRACTOR, AS AN OVERVIEW INTRODUCTION TO THE SCOPE OF WORK INCLUDED IN THE DRAWINGS AND SPECIFICATIONS, WHICH SUPERSEDE THIS OVERVIEW SUMMARY, REVIEW THE DRAWINGS AND SPECIFICATIONS THOROUGHLY FOR THE FULL SCOPE OF WORK.

BASE BID: NO WORK

ADD ALTERNATE AS1:

A. ROOF AS1: BUS CANOPY ROOF

- 1. REMOVE THE EXISTING ASPHALT SHINGLE ROOFING INCLUDING: ASPHALT SHINGLES, FELT UNDERLAYMENT, AND ASSOCIATED METAL FLASHINGS, DOWN TO EXISTING WOOD DECK BOARDS (TO UNIT PRICE WORK:
- PROVIDE NEW ASPHALT SHINGLE ROOFING CONSISTING OF NEW COPPER FLASHINGS, SELF-ADHERED MEMBRANE UNDERLAYMENT AT THE PERIMETER AND TRANSITIONS IN THE ROOF, NEW FELT UNDERLAYMENT IN THE FIELD OF THE ROOF, AND NEW ASPHALT SHINGLES.
- 3. REMOVE AND REPLACE THE COPPER SHEET METAL GUTTERS AND FASCIA.

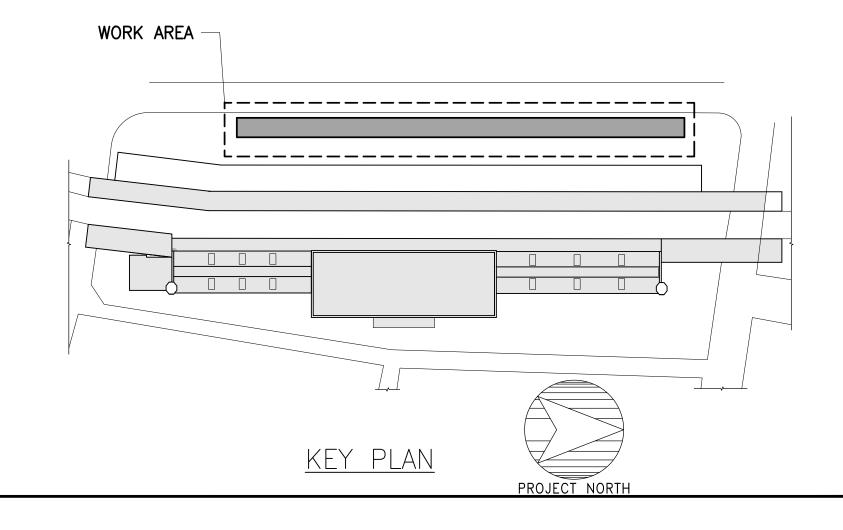
ADD ALTERNATE AS3:

B. ROOF AS3: INACTIVE PLATFORM CANOPY ROOF REMOVE THE EXISTING ASPHALT SHINGLE ROOFING INCLUDING: ASPHALT SHINGLES, FELT UNDERLAYMENT, AND ASSOCIATED METAL FLASHINGS, DOWN TO EXISTING WOOD DECK BOARDS (TO REMAIN).

- PROVIDE NEW ASPHALT SHINGLE ROOFING CONSISTING OF NEW UNIT PRICE QUANTITIES FOR ASPHALT ROOFING TO BE INCLUDED IN THE BASE BID COPPER FLASHINGS, SELF-ADHERED MEMBRANE UNDERLAYMENT AT THE PERIMETER AND TRANSITIONS IN THE ROOF, NEW FELT UNDERLAYMENT IN THE FIELD OF THE ROOF, AND NEW ASPHALT SHINGLES.
- ABATE AND PROPERLY DISPOSE OF THE EXISTING ROOFING CEMENT IDENTIFIED AS CONTAINING ASBESTOS IN ACCORDANCE WITH THE SPECIFICATIONS.
- REMOVE AND REPLACE THE COPPER SHEET METAL GUTTERS
- 5. REMOVE AND REPLACE THE BIRD NETTING IN PLACE BELOW THE CANOPY.

ON A UNIT PRICE BASIS, UNDERTAKE LOCALIZED ROOFING REPAIRS AT EACH ROOFING LOCATION, WHERE DIRECTED BY THE ENGINEER IN THE FIELD. A SUMMARY OF THE UNIT PRICE WORK INCLUDING QUANTITIES IS INCLUDED IN THE TABLE ON THIS SHEET. FOR PRICING PURPOSES, USE THE QUANTITIES IN THE TABLE ON THIS SHEET. DO NOT TAKE-OFF QUANTITIES FROM ELEVATION SHEETS. PROVIDE UNIT PRICING FOR ADDITIONAL REPAIRS, ABOVE THE QUANTITIES LISTED IN THE TABLE; REFER TO SPECIFICATION SECTION 010100 - SUMMARY OF WORK.

UNIT PRICE QUANTITIES FOR ASPHALT ROOFING TO BE INCLUDED IN THE BASE BID			
(TOTAL FOR ALL ADD ALTS.)			
ITEM	QUANTITY	UNIT	
ROOF AS1 (ADD ALT. AS1)		•	
REMOVE AND REPLACE DETERIORATED ROOF DECK BOARDS	20	SF	
REMOVE AND REPLACE DETERIORATED WOOD SOFFIT BOARDS	80	LF	
REATTACH EXISTING SOUND, LOOSE SOFFIT BOARDS	10	EA	
ROOF AS3 (ADD ALT. AS3)			
REMOVE AND REPLACE DETERIORATED ROOF DECK BOARDS	20	SF	
REMOVE AND REPLACE DETERIORATED WOOD SOFFIT BOARDS	360	LF	
REATTACH EXISTING SOUND, LOOSE SOFFIT BOARDS	20	EA	
EXTEND EXISTING DOWNLEADERS TO DISCHARGE AT GRADE	4	EA	



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CONSTRUCTION NOT FOR SET BID

UNION STATION TRANSPORTATION CENTER ROOFING REPAIR/ **REPLACEMENT**

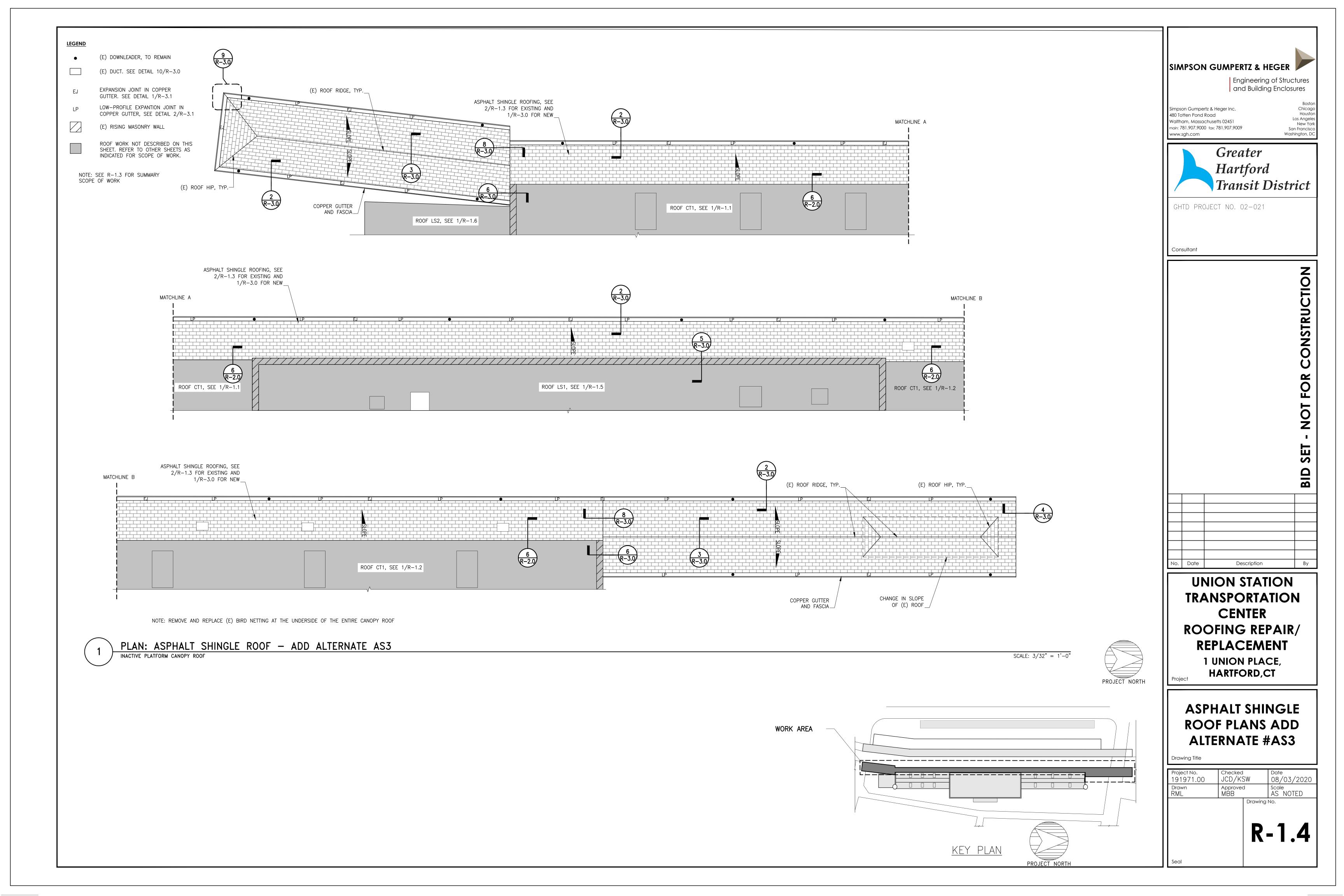
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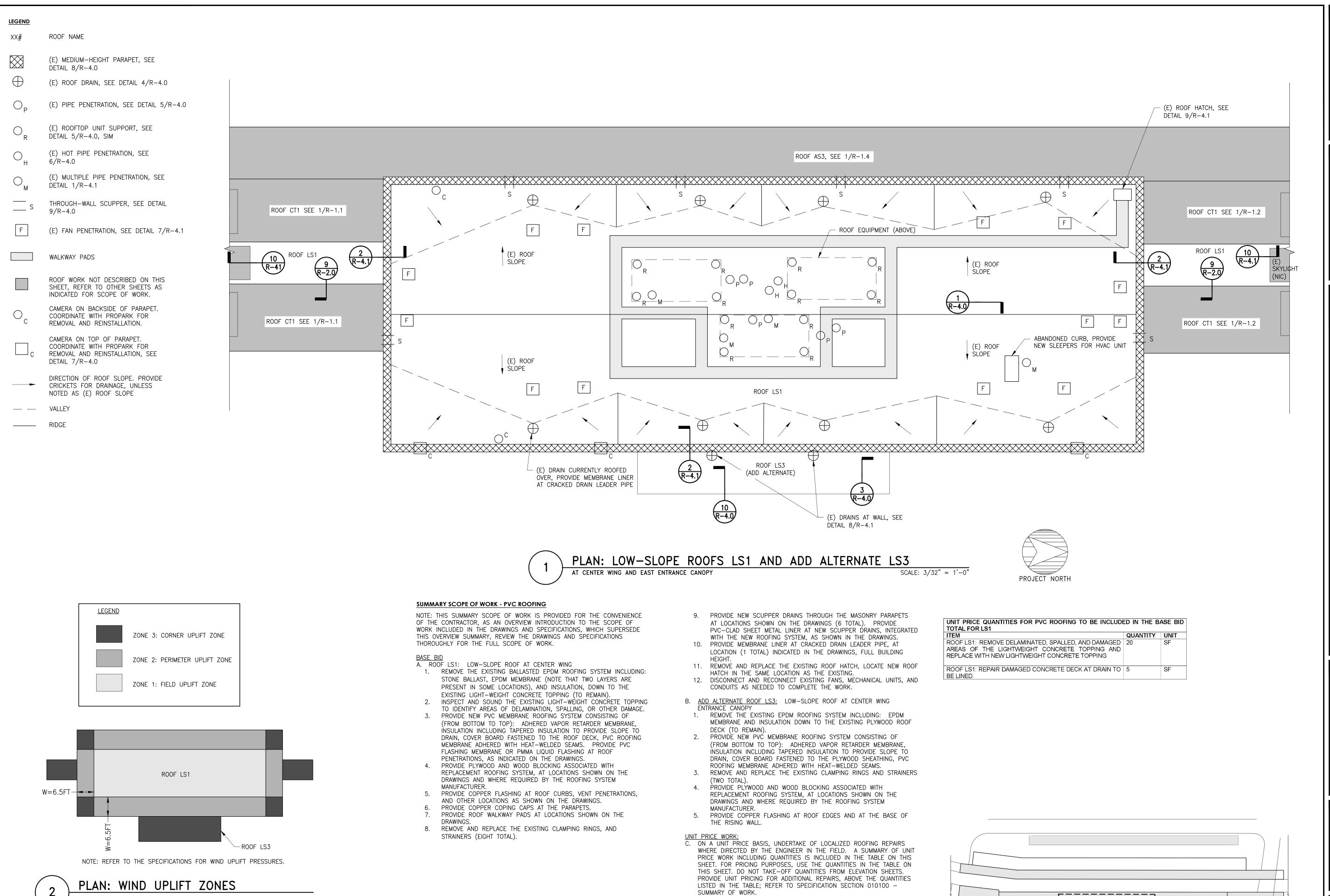
1 UNION PLACE, HARTFORD,CT

ASPHALT SHINGLE ROOF PLANS ADD ALTERNATE #AS1

No. Date

Project No. 191971.00	Checked		Date 08/03/2020
Drawn RML	Approved MBB		Scale AS NOTED
		Drawing	No.





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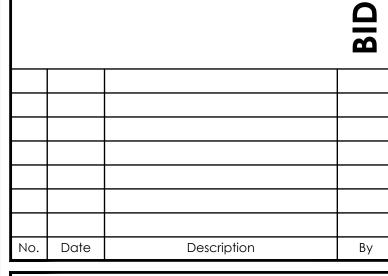


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1 UNION PLACE, HARTFORD,CT

LOW SLOPE ROOF PLANS AT CENTER WING

Drawing Title

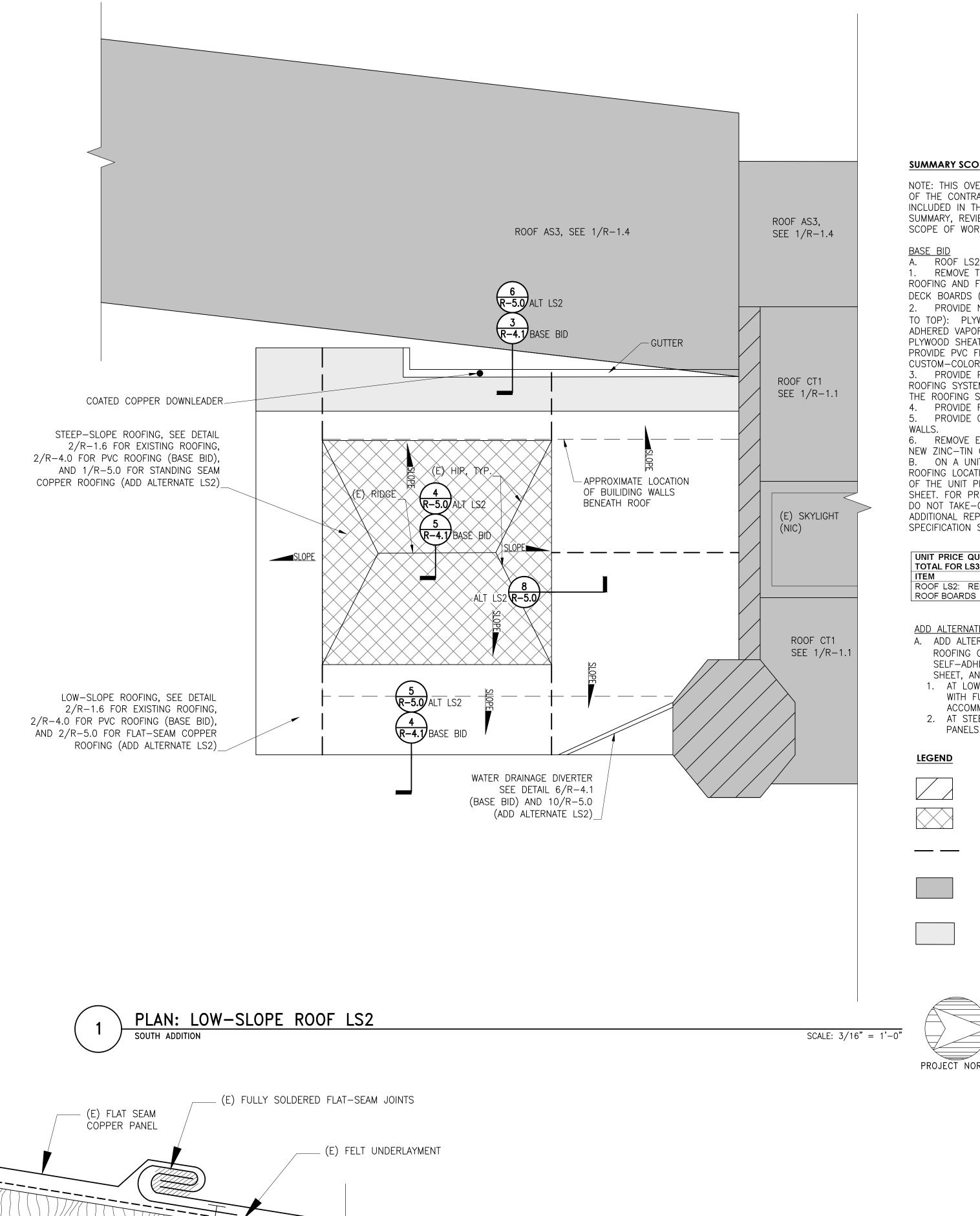
KEY PLAN

PROJECT NORTH

WORK AREA

Project No. | Checked | Date | 191971.00 | JCD/KSW | 08/03/2020 |
Drawn | Approved | Scale | AS NOTED |
Drawing No.

R-1.5



SUMMARY SCOPE OF WORK - PVC ROOFING

NOTE: THIS OVERVIEW SUMMARY SCOPE OF WORK IS PROVIDED FOR THE CONVENIENCE OF THE CONTRACTOR, AS AN OVERVIEW INTRODUCTION TO THE SCOPE OF WORK INCLUDED IN THE DRAWINGS AND SPECIFICATIONS, WHICH SUPERSEDE THIS OVERVIEW SUMMARY, REVIEW THE DRAWINGS AND SPECIFICATIONS THOROUGHLY FOR THE FULL SCOPE OF WORK.

ROOF LS2: LOW-SLOPE ROOF AT SOUTH ADDITION

REMOVE THE EXISTING FLAT-SEAM COPPER ROOFING INCLUDING COPPER ROOFING AND FLASHING, AND FELT UNDERLAYMENT, DOWN TO THE EXISTING WOOD

DECK BOARDS (TO REMAIN). PROVIDE NEW PVC MEMBRANE ROOFING SYSTEM CONSISTING OF (FROM BOTTOM TO TOP): PLYWOOD ROOF SHEATHING FASTENED TO THE EXISTING WOOD ROOF DECK, ADHERED VAPOR RETARDER MEMBRANE, INSULATION, COVER BOARD FASTENED TO THE PLYWOOD SHEATHING, PVC ROOFING MEMBRANE ADHERED WITH HEAT-WELDED SEAMS. PROVIDE PVC FLASHING MEMBRANE AT ROOF PENETRATIONS. PROVIDE CUSTOM-COLOR PVC MEMBRANE.

PROVIDE PLYWOOD AND WOOD BLOCKING ASSOCIATED WITH REPLACEMENT ROOFING SYSTEM, AT LOCATIONS SHOWN ON THE DRAWINGS AND WHERE REQUIRED BY THE ROOFING SYSTEM MANUFACTURER.

PROVIDE ROOF WALKWAY PADS AT LOCATIONS INDICATED ON THE DRAWINGS. PROVIDE COPPER FLASHINGS AT ROOF PENETRATIONS, EAVES, AND AT RISING

6. REMOVE EXISTING COPPER GUTTER AND PROVIDE NEW COPPER GUTTER WITH NEW ZINC-TIN COATED COPPER DOWNLEADERS.

B. ON A UNIT PRICE BASIS, UNDERTAKE OF LOCALIZED ROOFING REPAIRS AT EACH ROOFING LOCATION, WHERE DIRECTED BY THE ENGINEER IN THE FIELD. A SUMMARY OF THE UNIT PRICE WORK INCLUDING QUANTITIES IS INCLUDED IN THE TABLE ON THIS SHEET. FOR PRICING PURPOSES, USE THE QUANTITIES IN THE TABLE ON THIS SHEET. DO NOT TAKE-OFF QUANTITIES FROM ELEVATION SHEETS. PROVIDE UNIT PRICING FOR ADDITIONAL REPAIRS, ABOVE THE QUANTITIES LISTED IN THE TABLE; REFER TO SPECIFICATION SECTION 010100 - SUMMARY OF WORK.

UNIT PRICE QUANTITIES FOR PVC ROOFING TO BE INCLUDED IN THE BASE BID TOTAL FOR LS3

ROOF LS2: REMOVE AND REPLACE DETERIORATED WOOD 20

A. ADD ALTERNATE #LS2: IN LIEU OF NEW PVC ROOFING, PROVIDE NEW COPPER ROOFING CONSISTING OF (FROM BOTTOM TO TOP): PLYWOOD SHEATHING, SELF-ADHERED HIGH TEMPERATURE MEMBRANE UNDERLAYMENT, ROSIN PAPER SLIP SHEET, AND COPPER ROOFING AS FOLLOWS:

1. AT LOW-SLOPE AREAS OF THE ROOF PROVIDE FLAT-SEAM COPPER ROOF PANELS WITH FULLY SOLDERED JOINTS EXCEPT AT EXPANSION JOINTS DESIGNED TO ACCOMMODATE THERMAL MOVEMENT.

AT STEEP-SLOPE AREAS OF THE ROOF PROVIDE STANDING-SEAM COPPER ROOF PANELS.

(E) MASONRY RISING WALL, SEE DETAIL 2/R-4.1 BASE BID AND DETAIL 7/R-5.0 ADD ALT. #LS2

STEEP-SLOPE AREA OF THE ROOF, SEE DETAIL 2/R-4.0 BASE BID AND DETAIL 1/R-5.0 ADD ALT. #LS2 ADD ALTERNATE #LS2: EXPANSION JOINT IN FLAT-SEAM CÖPPER ROOFING. SEE

ROOF WORK NOT DESCRIBED ON THIS SHEET, REFER TO OTHER SHEETS AS INDICATED FOR SCOPE OF WORK

WALKWAY PADS - BASE BID ONLY

DETAIL 9/R-5.0

<u>LEGEND</u>

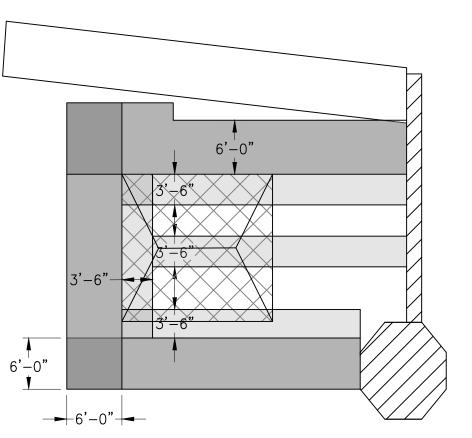
ZONE 3 OH: OVERHANG CORNER UPLIFT ZONE

ZONE 2 OH: OVERHANG PERIMETER UPLIFT ZONE

ZONE 3: CORNER UPLIFT ZONE

ZONE 2: PERIMETER UPLIFT ZONE

ZONE 1: FIELD UPLIFT ZONE

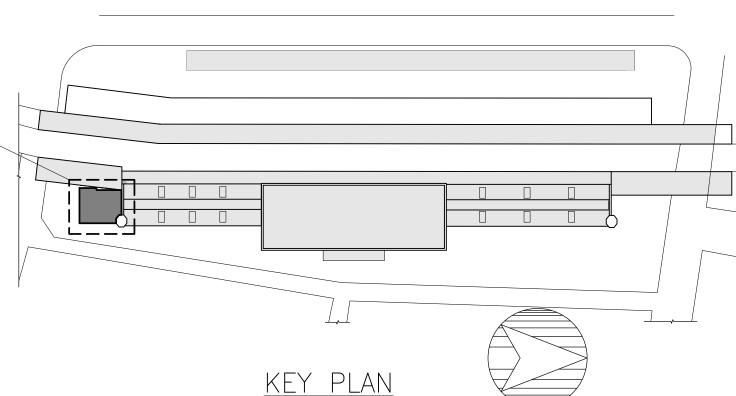


NOTE: REFER TO THE SPECIFICATIONS FOR WIND UPLIFT PRESSURES.

PLAN: WIND UPLIFT ZONES







PROJECT NORTH

PLAN AT SOUTH

Drawing Title

No. Date

Checked JCD/KSW 191971.00 08/03/2020 Approved MBB Scale AS NOTED

UNION STATION

TRANSPORTATION

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ROOFING REPAIR/

REPLACEMENT

1 UNION PLACE,

HARTFORD,CT

LOW SLOPE ROOF

ADDITION

SIMPSON GUMPERTZ & HEGER

Greater

Hartford

Transit District

Simpson Gumpertz & Heger Inc.

Waltham, Massachusetts 02451

main: 781.907.9000 fax: 781.907.9009

GHTD PROJECT NO. 02-021

480 Totten Pond Road

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Consultant

Engineering of Structures and Building Enclosures

Chicago

Los Angeles

New York

CONSTRUCTION

FOR

NOT

SET

BID

San Francisco

Washington, DC

R-1.6

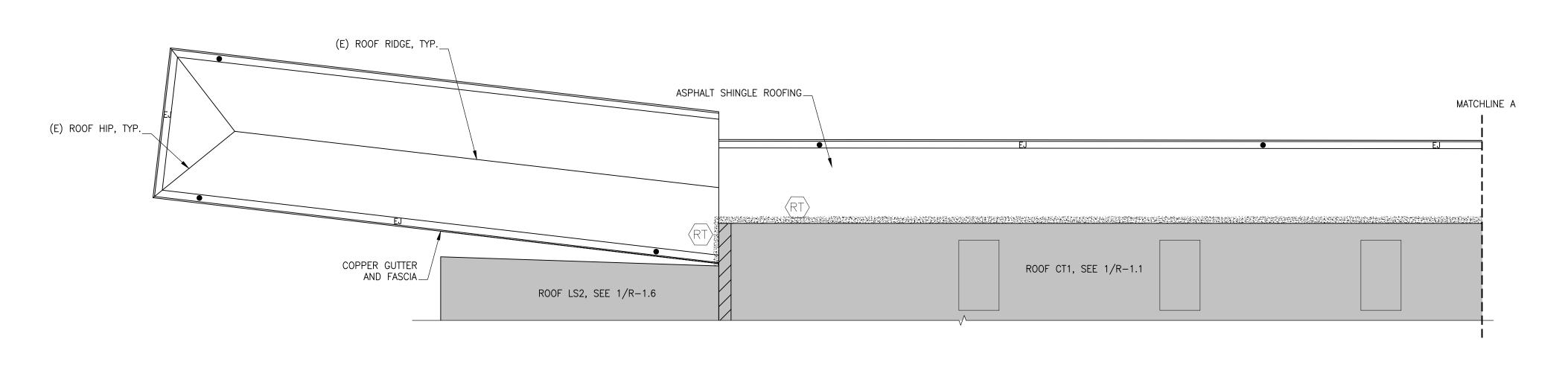
Drawing No.

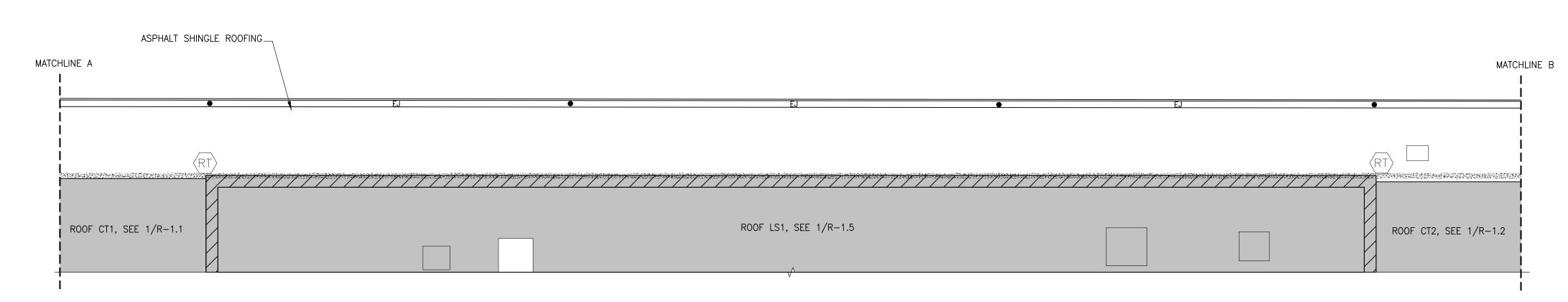
WORK AREA

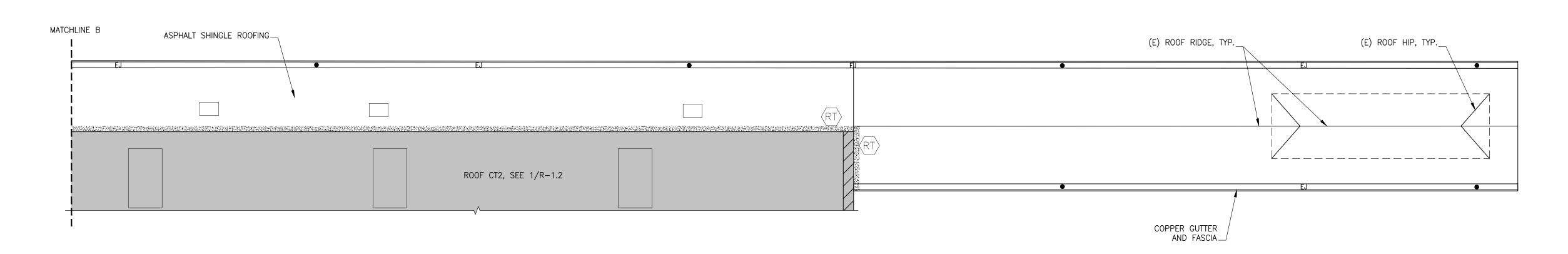
SECTION: (E) ROOFING SYSTEM AT ROOF LS2

(E) WOOD DECKING,

1-1/2" THICK, V.I.F.







1 PLAN: ASPHALT SHINGLE ROOF - ADD ALTERNATE AS3
INACTIVE PLATFORM CANOPY ROOF

HAZMAT NOTES

 COORDINATE ALL HAZMAT WORK WITH DEMO WORK INCLUDED ON OTHER CONTRACT DRAWINGS AND THE PROJECT SPECIFICATIONS.

2. ESTABLISH ENGINEERING CONTROLS PRIOR TO ANY REMOVAL, DEMOLITION OR ABATEMENT ACTIVITIES THAT MAY DISTURB ACM.

3. VERIFY IN FIELD ALL ASBESTOS MATERIAL THAT WILL BE DISTURBED AND VERIFY LOCATIONS.

(X# ROOF NAME

(E) DOWNLEADER

(E) DUCT. SEE DETAIL 10/R-3.0

(N) DOWNLEADER

(N) DOWNLEADER

GENERAL LEGEND

EJ EXPANSION JOINT IN COPPER GUTTER. SEE DETAIL X/RXX

(E) RISING MASONRY WALL

HAZMAT LEGEND

ACM BLACK ROOFING MASTIC/TAR (ROOF PERIMETER)



ACM BLACK MASTIC/TAR ON STONE



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ROOFING REPAIR/
REPLACEMENT

1 UNION PLACE, HARTFORD,CT

ACM ASPHALT
SHINGLE ROOF PLAN

Drawing Title

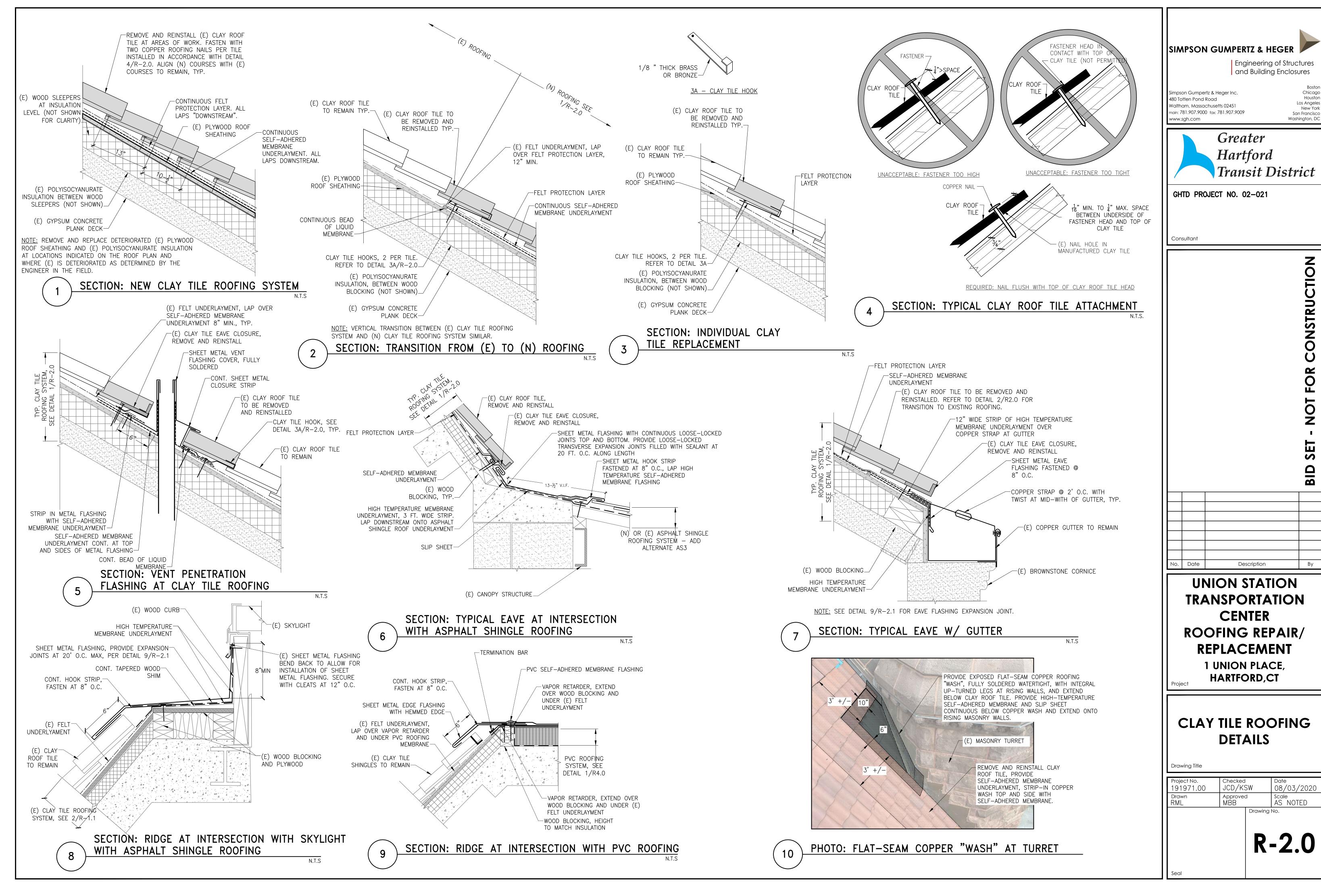
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	191971.00			08/03/202
	Drawn	Approved SSJ		Scale AS NOTED
			Drawing	No.

ASB-1

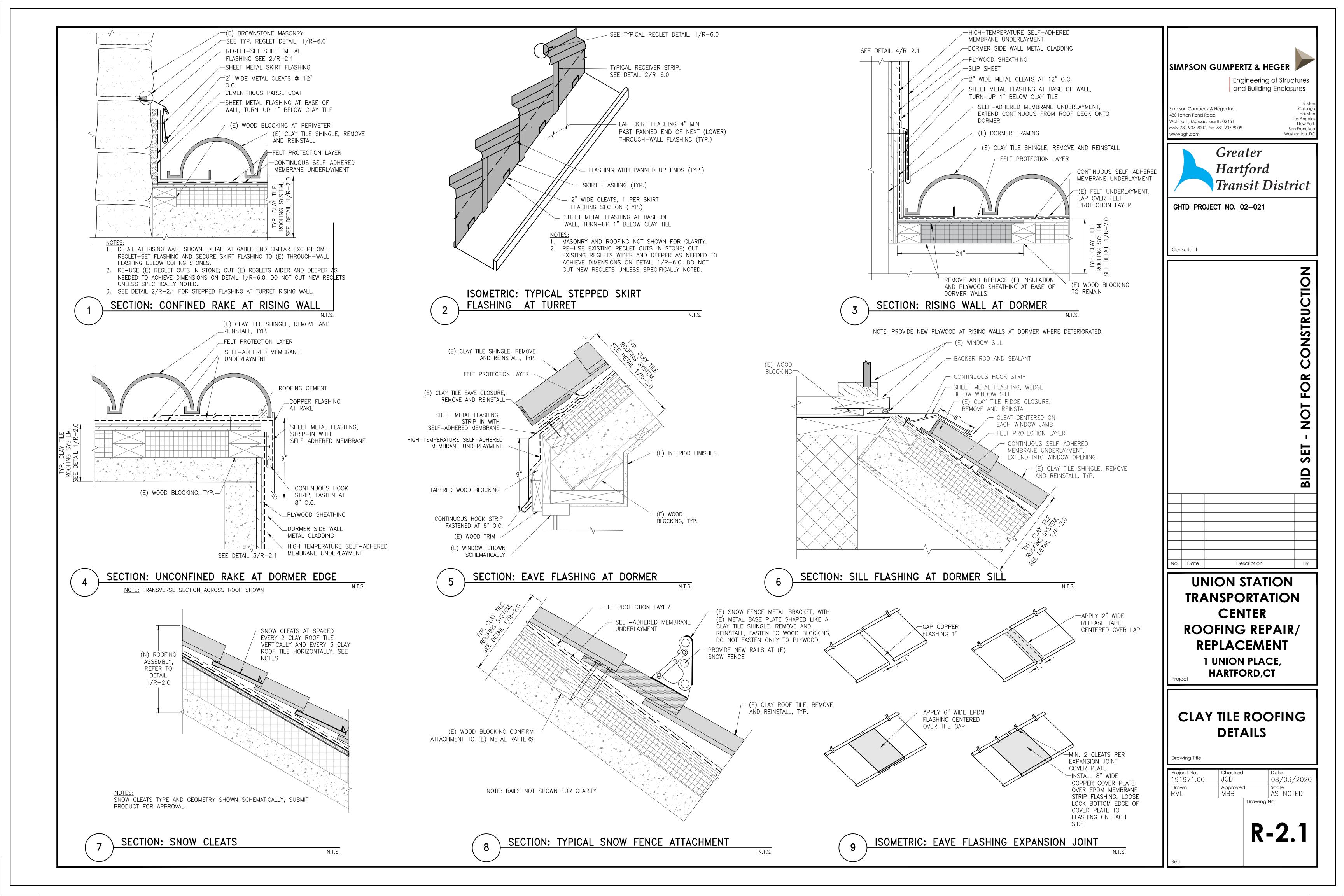
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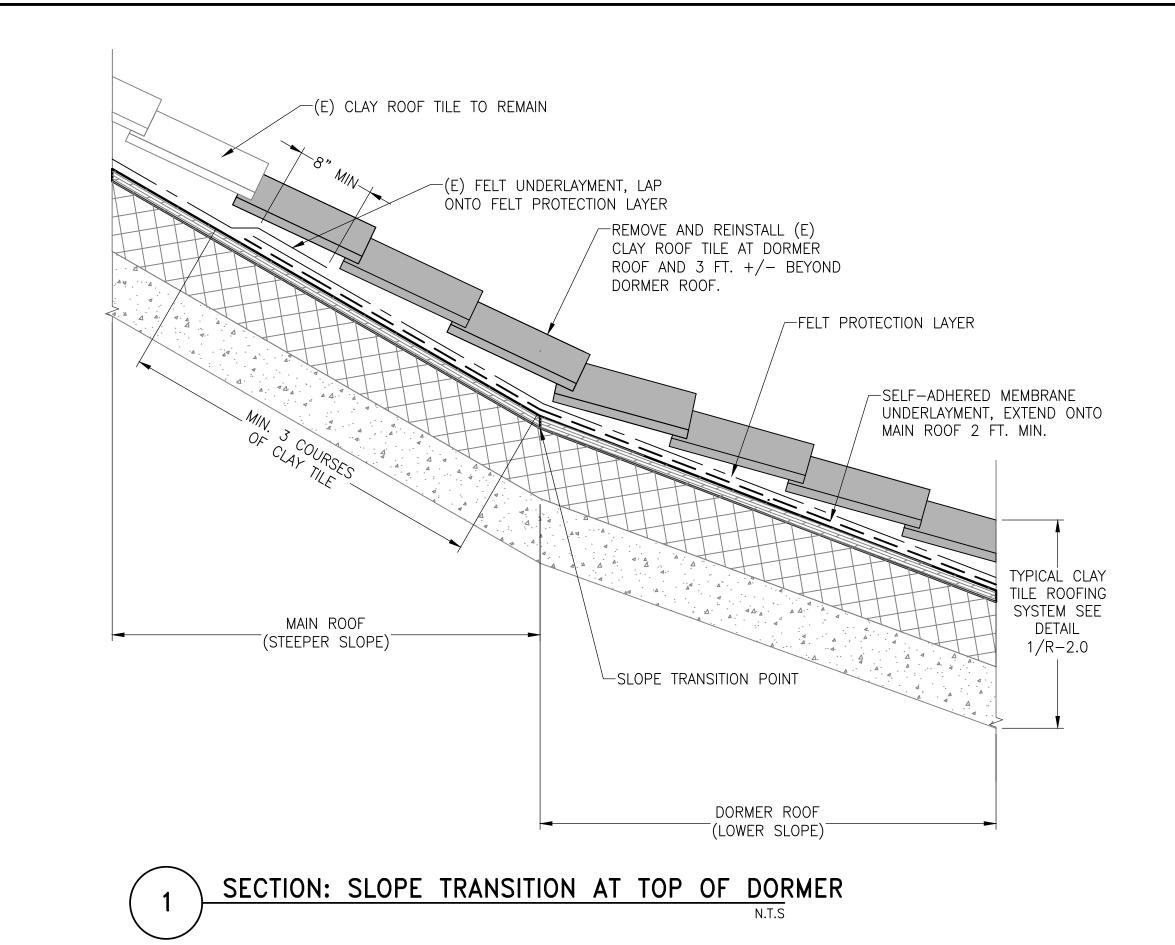


SCALE: 3/32" = 1'-0



Los Angeles New York San Francisco Washington, DC





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Engineering of Structures and Building Enclosures

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GHTD PROJECT NO. 02-021

Consultant

BID SET - NOT FOR CONSTRUCTION

No. Date Description By

UNION STATION
TRANSPORTATION
CENTER
ROOFING REPAIR/
REPLACEMENT

1 UNION PLACE, HARTFORD,CT

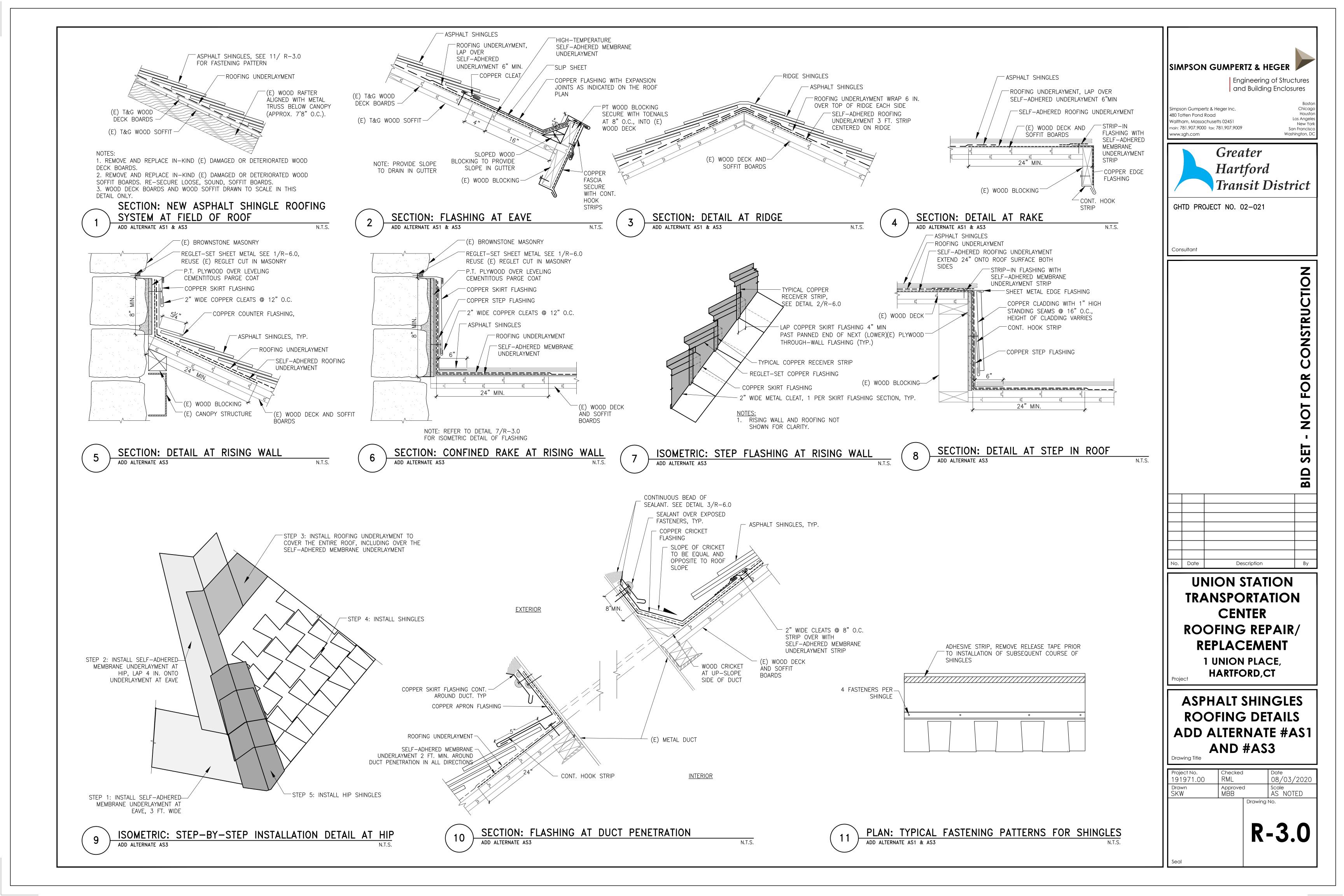
CLAY TILE ROOFING DETAILS

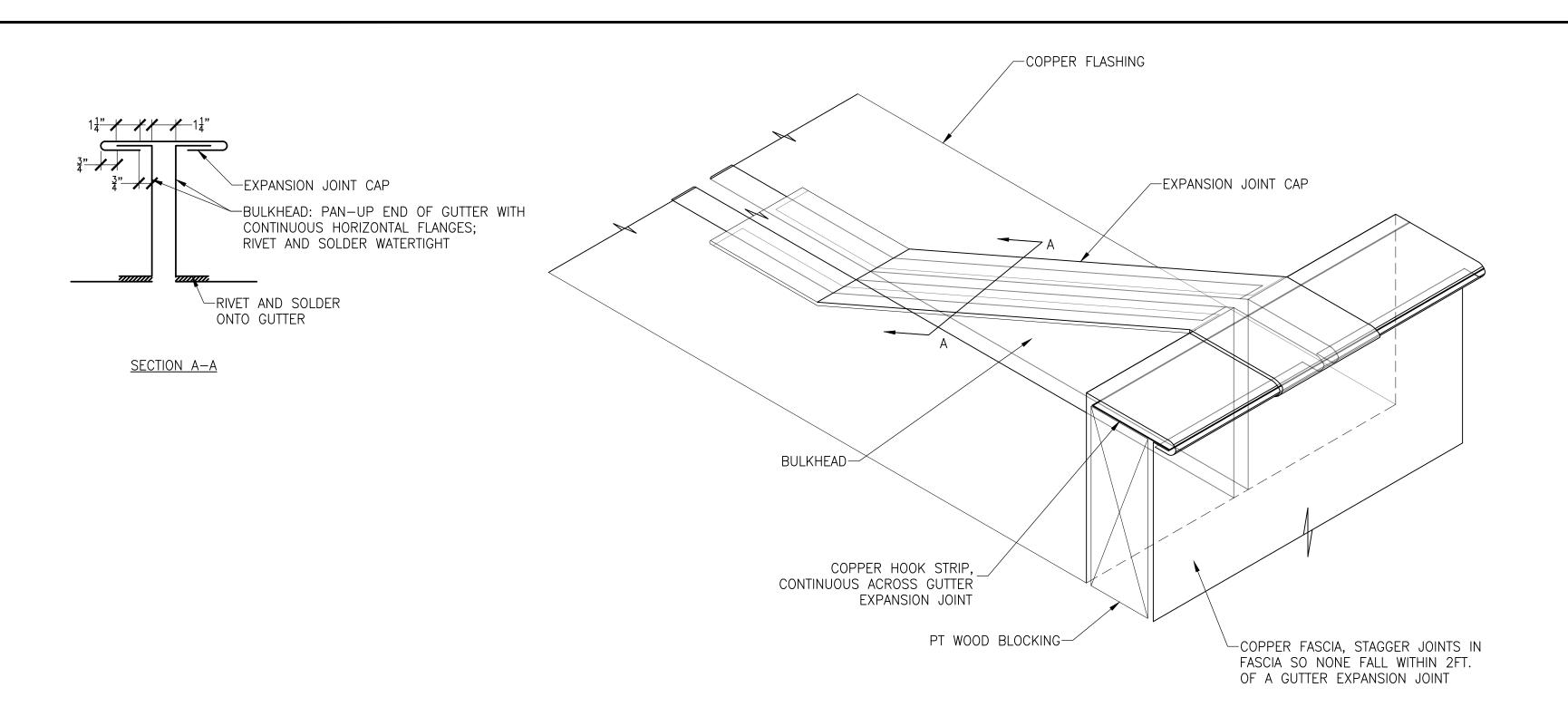
Drawing Ti

	Project No. 191971.00	Checked JCD		Date 08/03/2020
	Drawn RML	Approved MBB	d	Scale AS NOTED
			Drawing	No.

R-2.2

Seal





 $\left(\begin{array}{c}1\end{array}\right)$

ISOMETRIC: GUTTER BULKHEAD EXPANSION JOINT

NOTE: GUTTER PROFILES VARY FROM THAT SHOWN, BULKHEAD EXPANSION JOINT SIMILAR.

PREFORMED LOW -PROFILE EXPANSION JOHN

PREFORMED LOW -PROFILE EXPANSION

PREFORMED LOW -PROFILE EXPANSION

DETAIL A

PREFORMED LOW -PROFILE EXPANSION

- COMPER GOVER

COMPER HOOK STRIP.

CONTINUOUS ACROSS GLITER

EXPANSION JOHN

FI WOCD BLOCKING

COMPER FASCIA, STAGGER JOINTS IN FASCIA SO NONE FALL WITHIN 2FT.

OF A GUITER PENSION, JOINT

ISOMETRIC: GUTTER LOW-PROFILE EXPANSION JOINT

NOTE: GUTTER PROFILES VARY FROM THAT SHOWN, EXPANSION JOINT SIMILAR.

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GHTD PROJECT NO. 02-021

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No. Date Description By

UNION STATION
TRANSPORTATION
CENTER
ROOFING REPAIR/
REPLACEMENT

1 UNION PLACE,
HARTFORD,CT

ASPHALT SHINGLES
ROOFING DETAILS
ADD ALTERNATE #AS1
AND #AS3

Drawing Ti

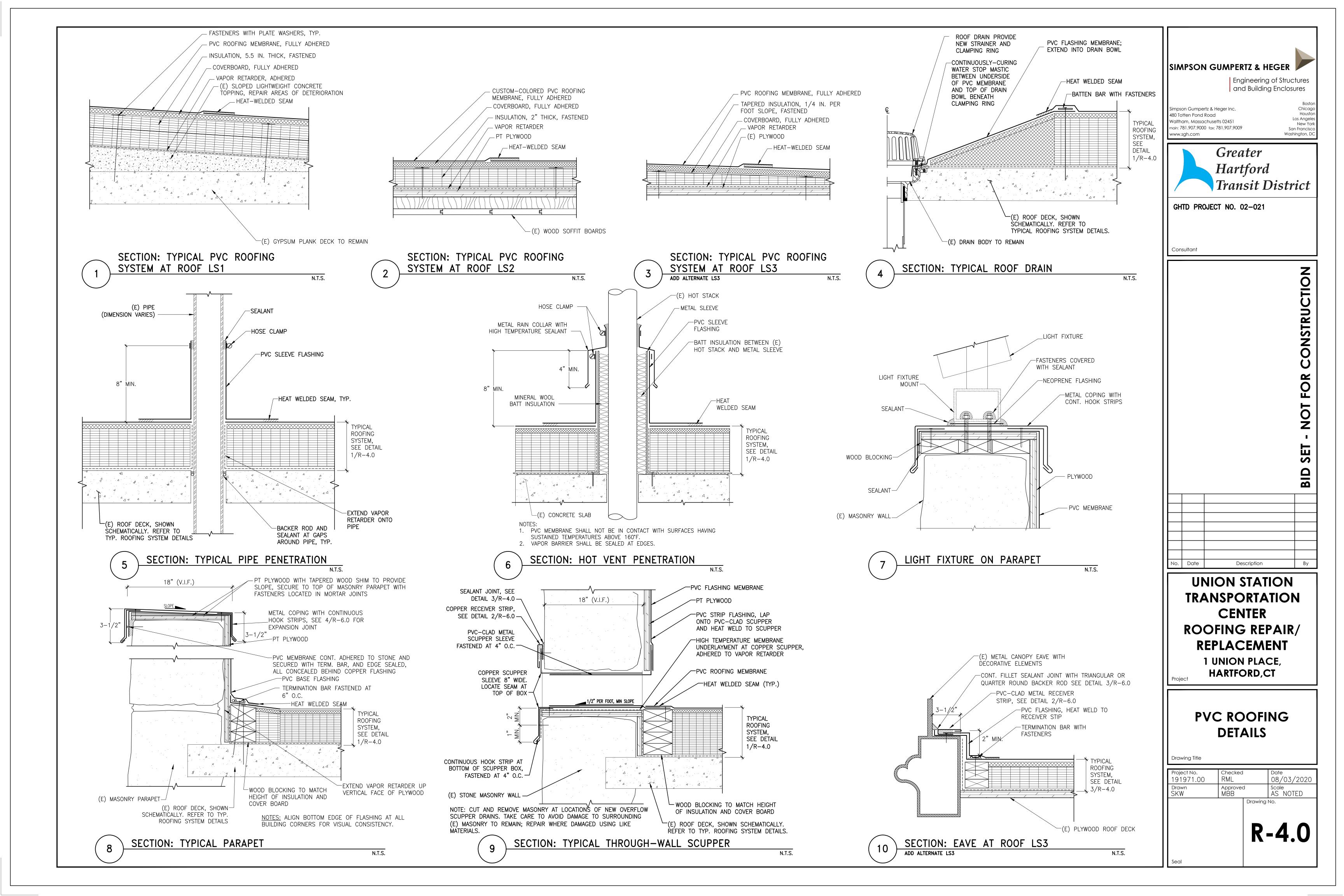
Project No. 191971.00	Checked RML		Date 08/03/2020
Drawn SKW	Approved MBB	k	Scale AS NOTED
Drawing No.			

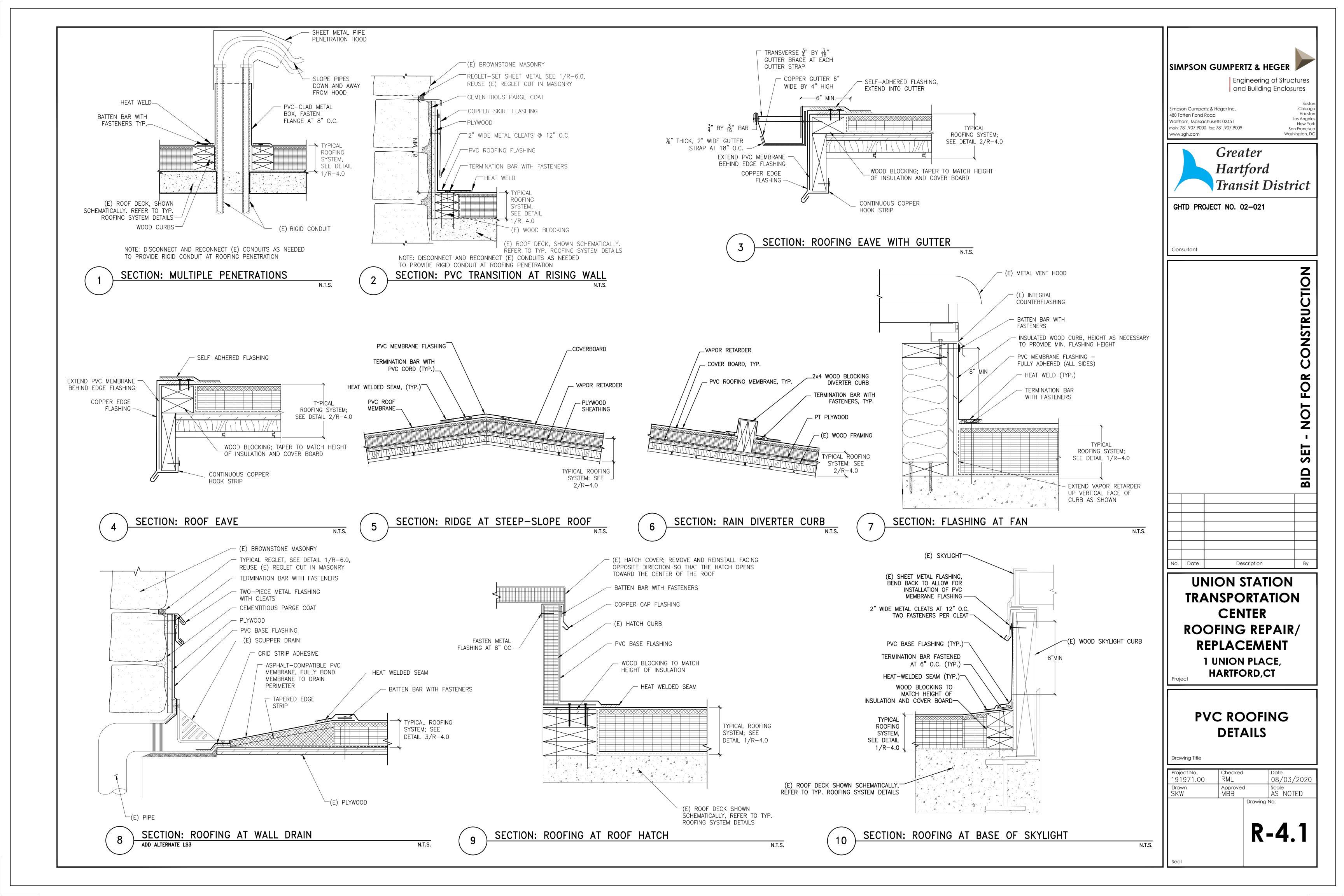
R-3.1

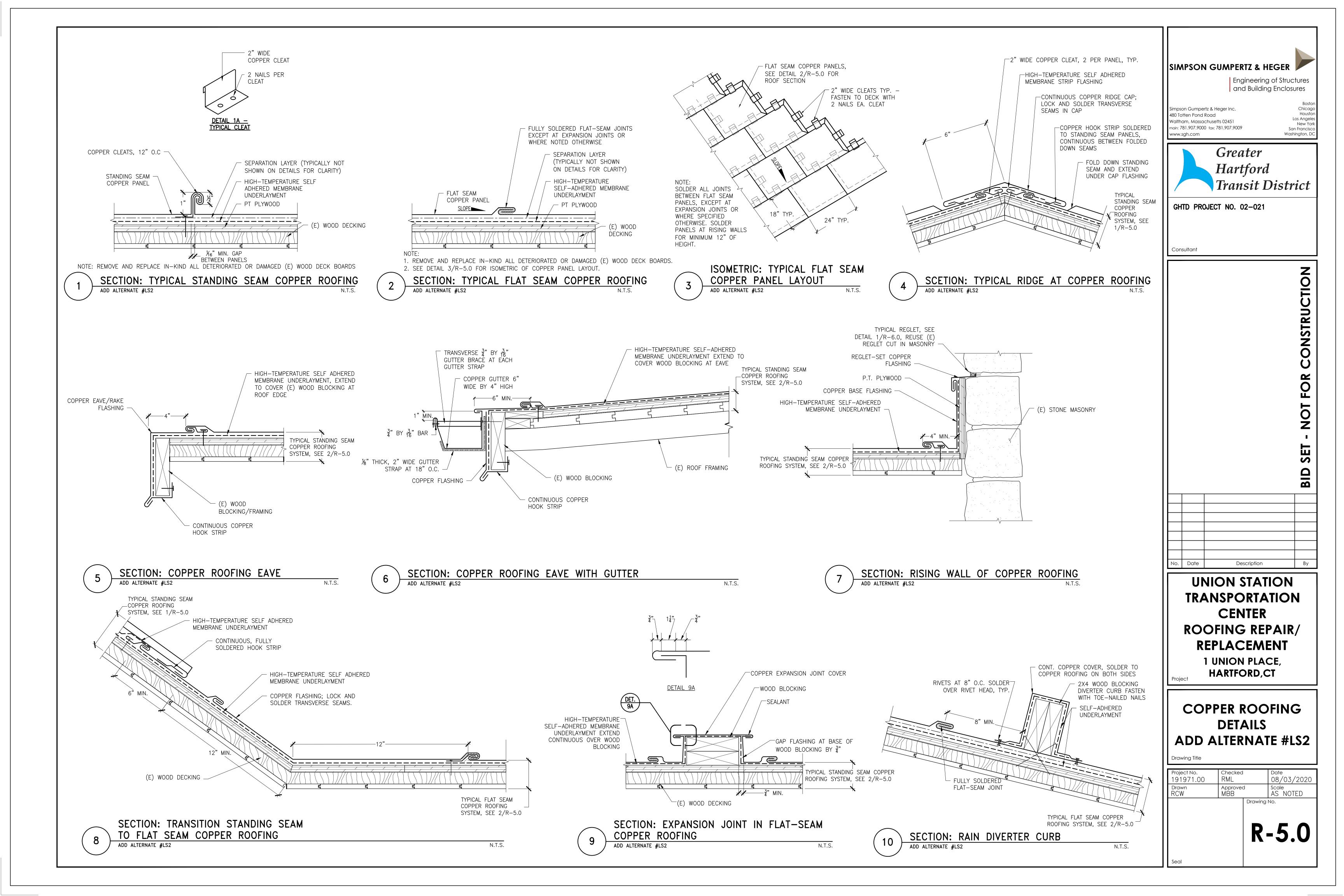
Seal

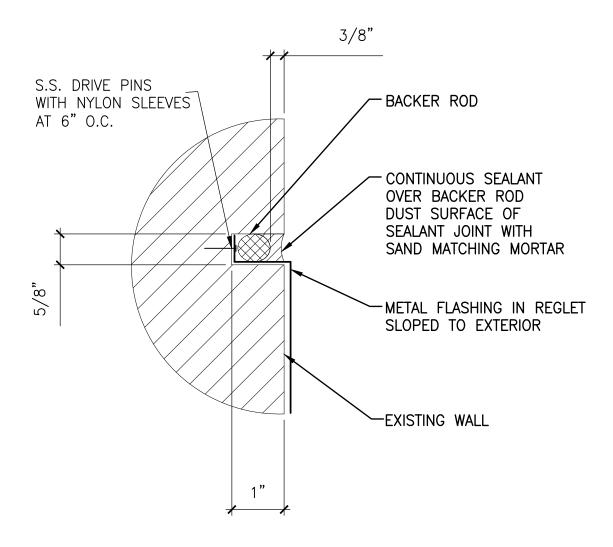
N.T.S.

N.T.S.





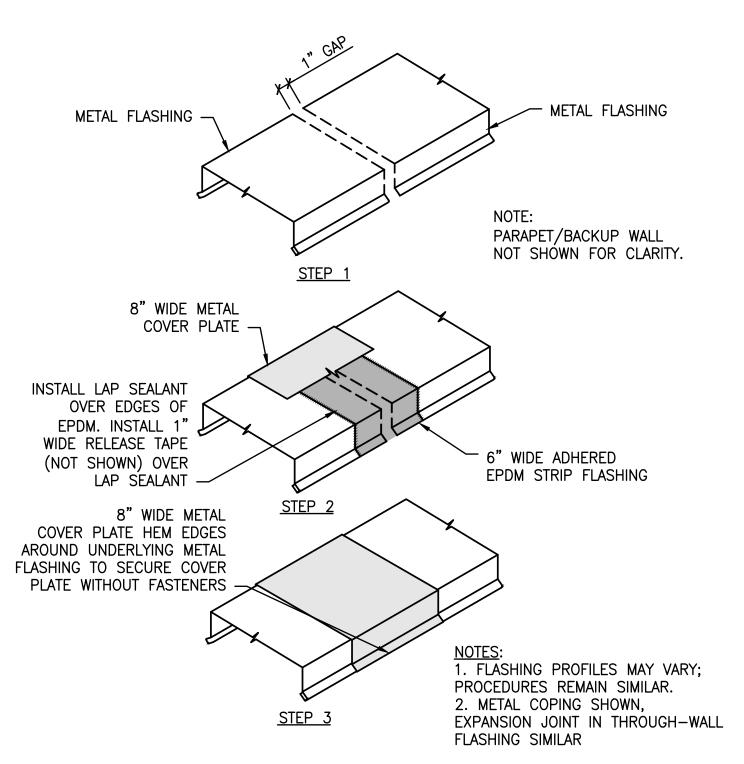




FASTENERS AT 6" O.C. PRE-SHIMMED GLAZING TAPE _ EXISTING WALL METAL FLASHING CONTINUOUS METAL RECEIVER STRIP -

SECTION: TYPICAL RECEIVER STRIP





ISOMETRIC: EXPANSION JOINT IN METAL COPING

-SEALANT BOND BREAKER TAPE OR TRIANGULAR BACKER SUBSTRATE AS NOTED ON SPECIFIC DETAILS _SUBSTRATE AS NOTED ON SPECIFIC DETAIL —BACKER ROD <u>INTERIOR</u> <u>INTERIOR</u>

FILLET GEOMETRY

EXTERIOR

HOURGLASS GEOMETRY

EXTERIOR

NOTES:

1. USE HOURGLASS GEOMETRY FOR ALL JOINTS WITH IN-PLANE, PARALLEL SURFACES ON EACH SIDE OF

2. USE FILLET GEOMETRY FOR ALL JOINTS WITH PERPENDICULAR SURFACES ON EACH SIDE OF JOINT. 3. FOR HOURGLASS GEOMETRY INSTALL BACKER ROD SUCH THAT SEALANT DEPTH (D) EQUALS 1/2W, TO A MAXIMUM DEPTH OF 1/2".

SECTION AND PLAN: TYPICAL SEALANT AND JOINT GEOMETRIES
N.T.S.

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GHTD PROJECT NO. 02-021

Consultant

CONSTRUCTION NOT FOR SET BID

UNION STATION TRANSPORTATION CENTER ROOFING REPAIR/ **REPLACEMENT**

1 UNION PLACE, HARTFORD,CT

TYPICAL DETAILS

Drawing Title

No. Date

Project No. 191971.00	Checked RML		Date 08/03/2020
Drawn SKW	Approved MBB	d	Scale AS NOTED
	Drawing No.		

R-6.0