DDS- Planning & Zoning: Historic Review Application



Submission date:
Receipt number:

25 May 2021, 10:53AM

243

Property Information

Property Address	Street: 1 Union Place City: Hartford State: Connecticut Zip Code: 06103
Zoning District:	DT-3
Parcel ID:	223-328-021
Property Owner:	Greater Hartford Transit District
Property Owner's Address:	Street: 1 Union Place City: Hartford State: Connecticut Zip Code: 06103
Phone:	860-380-2012
Email:	ldrake@ghtd.org

Applicant

Please check if "Applicant" is the same as "Property	
Owner"	
Name of Applicant:	Katherine Wissink
File Date:	05/25/2021

Address:	Street: 480 Totten Pond Road
	City: Waltham
	State: Massachusetts
	Zip Code: 02451
Phone:	17814243919
Email:	kswissink@sgh.com

Primary Point of Contact

Name:	Katherine Wissink
Phone:	781-424-3919
Email:	kswissink@sgh.com

Describe your application action(s) and provide as muchReview of reroofing work at the south addition (Roofdetail as possible.LS2 in the construction documents); reroofing and

	repair work at other roofs (LS1, LS3, and CT1) were
	reviewed under a separate application. The work at
	LS2 includes removal of the existing copper roofing
	and installation of a new copper-colored PVC
	membrane roofing system. Note that the addition is
	not original to the construction of the building and
	was constructed in the 1980's. The replacement PVC
	roofing system will include the addition of roof
	insulation (which the roof currently lacks) without
	increasing the weight of the roofing system, and thus,
	does not require any structural upgrades to the roof
	deck or framing. This change in material has been
	reviewed by SHPO and found to be acceptable due to
	the fact that the south addition is not historic (SHPO
	review letter is attached).
Proposed work:	Repairs
Current materials being repaired/replaced:	Copper Roofing
Materials/products being used in work:	PVC membrane roofing system (cover board, insulation, vapor retarder, and plywood), copper flashing

 Please upload all supporting materials and photographs
 Union Station Permit Set.pdf

 below.
 Hartford Union Place 1 - Union Station Roof Repair

 DOT.pdf

Signatures

Signature of Applicant:

KSWISSINK

Link to signature

Name of Applicant:

Date:

Signature of Property Owner:

Katherine Wissink

5/25/2021

Kicher L Shothand

Link to signature

Name of Property Owner:

Date:

Greater Hartford Transit District

05/25/2021



State Historic Preservation Office

May 19, 2021

Ms. Katherine Wissink, P.E. LEED AP BD+C Simpson Gumpertz & Heger 480 Totten Pond Road Waltham, MA 02451

> Subject: Hartford Union Station Roof Repairs, Revised 1 Union Place Hartford, CT ENV-21-0583

Dear Ms. Wissink:

The State Historic Preservation Office has reviewed the information submitted for the abovenamed property pursuant to the provisions of the Connecticut Environmental Policy Act.

As you are aware, Hartford Union Station, located at 1 Union Place, is individually listed on the National Register of Historic Places (NR# 75001932).

Your work plan consists of roof repair and replacement, including but not limited to:

- Repair and selective replacement in kind of clay tile roof on both the North Wing and South Wing (including new underlayment and flashing)
- (Alternate) Replacement in kind of existing asphalt shingle roof on both the Inactive Train Canopy and Bus Canopy
- (Alternate) Install new gutters and downleaders on both the Inactive Train Canopy and Bus Canopy
- Replace existing EPDM roofing on Center Wing with new PVC roofing system (including flashing)
- Remove and replace existing flat seam copper roof of South Addition with new PVC roofing system (including flashing)
- (Alternate) Remove and replace existing flat seam copper roof of South Addition with new copper roof system
- (Alternate) Replace existing EPDM roofing on Entrance Canopy with new PVC roofing system (including flashing)
- Installation of two scuppers in the parapet wall of the Center Wing one at the north elevation, one at the south elevation.

In regards to the South Addition Roof, this office recommends that the alternative scope (replace existing, deteriorated copper roof with new copper roof system) be followed, rather than a PVC roofing system. However, as documentation submitted to this office indicates

State Historic Preservation Office

450 Columbus Boulevard, Suite 5 | Hartford, CT 06103 | P: 860.500.2300 | ct.gov/historic-preservation An Affirmative Action/Equal Opportunity Employer An Equal Opportunity Lender

Connecticut

Department of Economic and Community Development

State Historic Preservation Office

that the addition was constructed c.1985, it is not considered a historic component of the property, and its replacement with a nonhistoric material would not adversely impact the integrity of the property as a whole.

As an individually-listed National Register property, Hartford Union Station retains a high degree of integrity. Care should be taken in completing the work described above. Based on the information provided to this office, the undertaking will constitute <u>no adverse effects</u> to historic resources. Should estimates of the work to be performed substantially change, SHPO should be contacted for additional consultation.

The State Historic Preservation Office appreciates the opportunity to review and comment upon this project. These comments are provided in accordance with the Connecticut Environmental Policy Act. For further information please contact Marena Wisniewski, Environmental Reviewer, at (860) 500-2357 or marena.wisniewski@ct.gov.

Sincerely,

lonathan hearey

Jonathan Kinney Deputy State Historic Preservation Officer

State Historic Preservation Office 450 Columbus Boulevard, Suite 5 | Hartford, CT 06103 | P: 860.500.2300 | ct.gov/historic-preservation An Affirmative Action/Equal Opportunity Employer An Equal Opportunity Lender

UNION STATION TRANSPORTATION CENTER **ROOFING REPAIR/REPLACEMENT** 1 UNION PLACE

HARTFORD, CT

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

PERMIT SET 3 MAY 2021

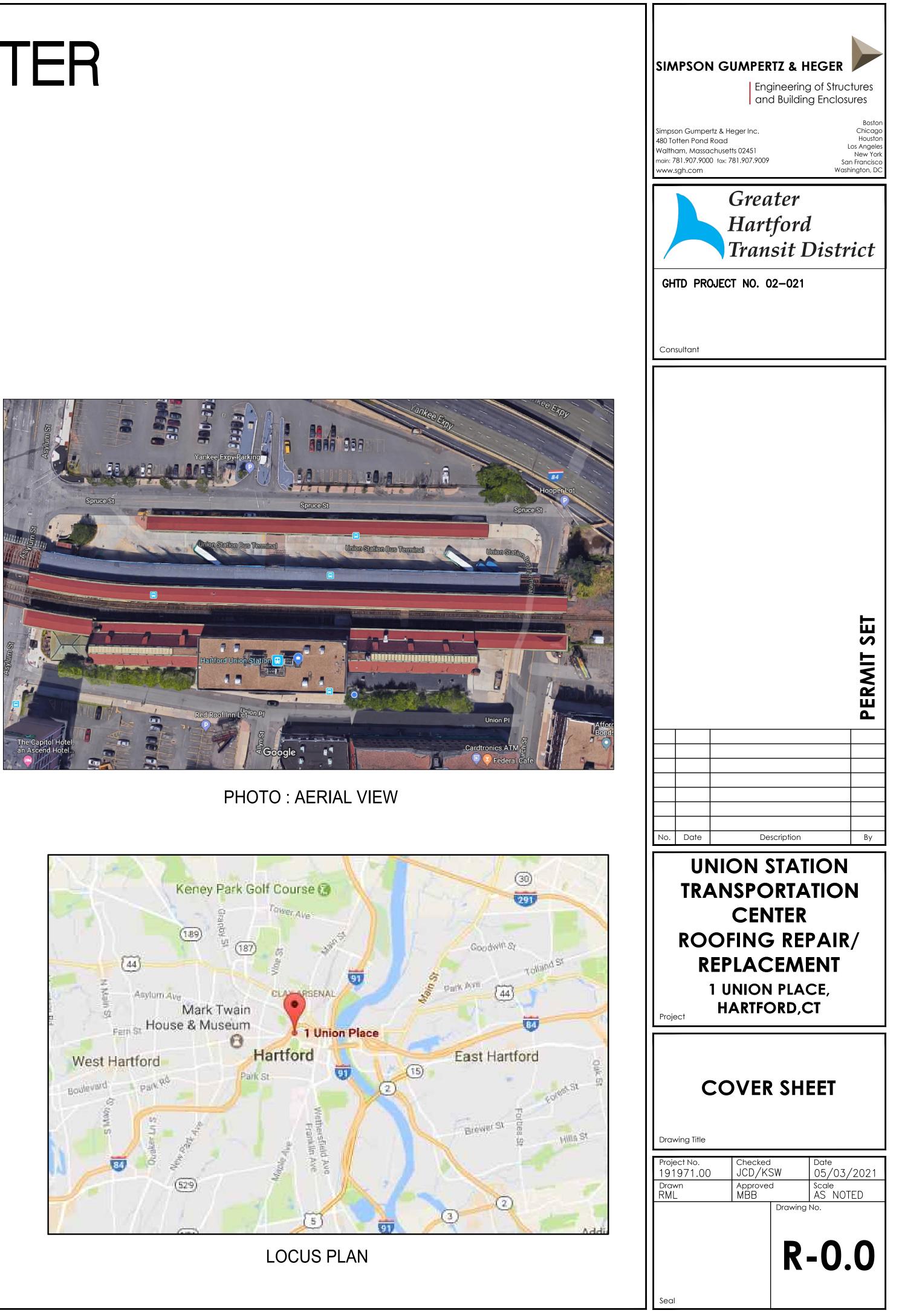
OWNER:	DRAWIN	G CONT
Greater Hartford Transit District	R-0.0	COVE
1 Union Place	R-0.1	SITE F
Hartford, CT 06103	R-1.0	OVER
	R-1.1	CLAY
Contact: Ms. LaShaunda Drake	R-1.2	CLAY
E-mail: LDrake@GHTD.org	R-1.3	ASPH
	R-1.4	ASPH
ENGINEER, DESIGNER OF RECORD:	R-1.5	LOW S
Simpson Gumpertz & Heger, Inc.	R-1.6	LOW S
480 Totten Pond Dr.	ASB-1	ACM A
Waltham, MA 02451	R-2.0	CLAY
	R-2.1	CLAY
Contact:	R-2.2	CLAY
Ms. Katherine Wissink, P.E. (Project Manager)	R-3.0	ASPH
Tel. No.: 781-907-9329		ALT.#
Cell No.: 781-424-3919	R-3.1	ASPH
E-mail: KSWissink@sgh.com		ALT.#
Mr. Matthewy Dranald D.C. (Drinainal)	R-4.0	PVC R
Mr. Matthew Bronski, P.E. (Principal)	R-4.1	PVC R
Tel. No.: 781-907-9264	R-5.0	COPP
Cell No.: 781-424-3946	R-6.0	TYPIC
E-mail: MBBronski@sgh.com	LEGEND:	
	• GHTD = GR	ARE PROPOS EATER HAR NLESS STEE T TO SCALE sure Treated

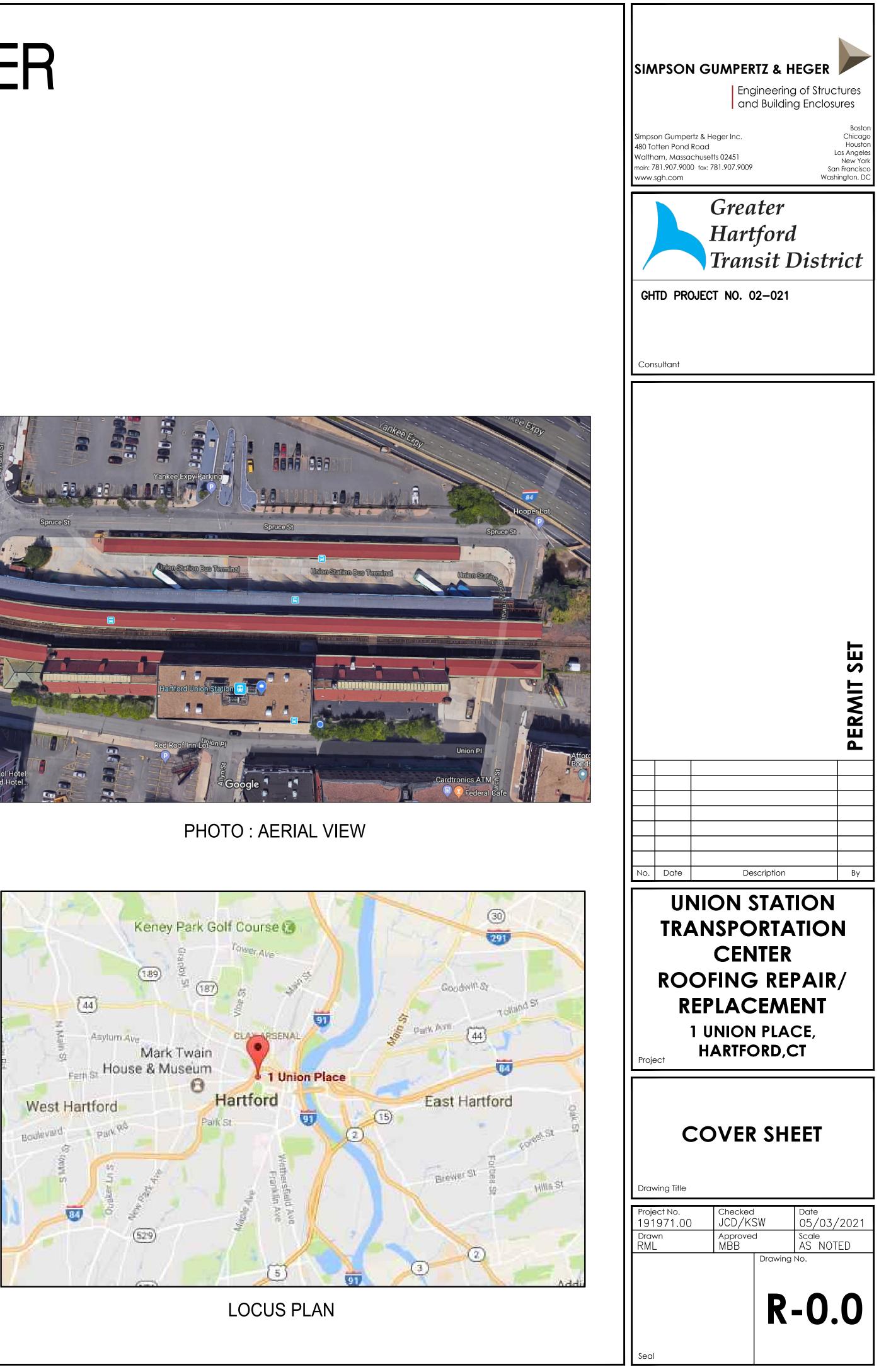
• TYP. = TYPICAL

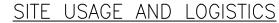
• SIM. = SIMILAR

TENTS: ER SHEET PLAN RALL ROOF PLAN TILE ROOF PLANS: SOUTH WING TILE ROOF PLANS: NORTH WING HALT SHINGLE ROOF PLANS ADD ALT. #AS1 HALT SHINGLE ROOF PLANS ADD ALT. #AS3 SLOPE ROOF PLANS AT CENTER WING SLOPE ROOF PLAN AT SOUTH ADDITION ASPHALT SHINGLE ROOF PLAN TILE ROOFING DETAILS TILE ROOFING DETAILS TILE ROOFING DETAILS HALT SHINGLES ROOFING DETAILS ADD #AS1 AND #AS3 HALT SHINGLES ROOFING DETAILS ADD #AS1 AND #AS3 ROOFING DETAILS ROOFING DETAILS PER ROOFING DETAILS ADD ALT. #LS2 CAL DETAILS

NOT SPECIFICALLY DESIGNATED AS SED) RTFORD TRANSIT DISTRICT





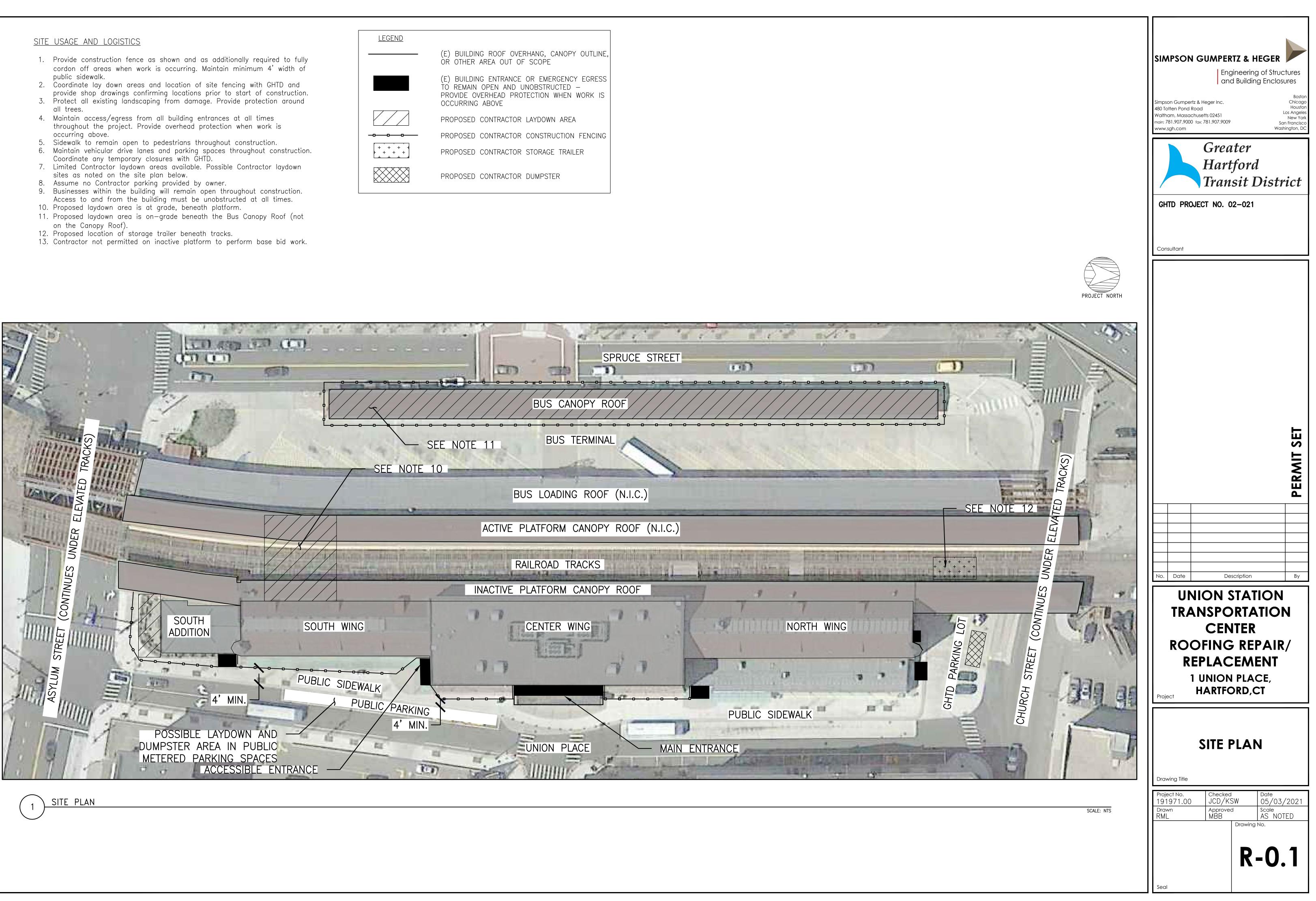


- public sidewalk.

all trees.

occurring above.

sites as noted on the site plan below.



(E) BUILDING ROOF OVERHANG, CANOPY OUTLINE, OR OTHER AREA OUT OF SCOPE
(E) BUILDING ENTRANCE OR EMERGENCY EGRESS TO REMAIN OPEN AND UNOBSTRUCTED – PROVIDE OVERHEAD PROTECTION WHEN WORK IS OCCURRING ABOVE
PROPOSED CONTRACTOR LAYDOWN AREA
PROPOSED CONTRACTOR CONSTRUCTION FENCING
PROPOSED CONTRACTOR STORAGE TRAILER
PROPOSED CONTRACTOR DUMPSTER

<u>LEGEND</u> AREA OF WORK, SEE DETAIL 1/R-2.0 FOR (E) DOWNLEADER, TO REMAIN ROOFING SYSTEM AND 2/R-2.0 FOR TRANSITION 0 BETWEEN NEW AND EXISTING ROOFING SYSTEMS (E) EXPANSION JOINT IN COPPER EJ O_{v} (E) VENT PENETRATION, SEE DETAIL GUTTER 5/R-2.0 (E) SNOW CLEATS, PROVIDE NEW AT (E) SNOW FENCE TO REMAIN ____ AREAS OF NEW CLAY TILE ROOFING, SEE DETAIL 7/R-2.1REMOVE AND REINSTALL (E) SNOW _._.. FENCE, SEE DETAIL 8/R-2.1ROOF WORK NOT DESCRIBED ON THIS SHEET, REFER TO OTHER SHEETS AS INDICATED FOR SCOPE OF WORK. (E) RISING MASONRY WALL NOTE: 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. ROOF LS2, SEE 1/R-1.6 R-2.1 PROVIDE COPPER WASH AT ROOF BEHIND TURRET WALL. SEE DETAIL 10/R-2.0-3 FT. TYP. r R-2.0 (E) STONE ROOF AT TÚRRET, N.I.C. PLAN: CLAY TILE ROOFS CT1 SOUTH WING ROOF (E) CLAY TILE SPANISH-STYLE SHINGLES; RÉMOVE, 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" THICK WOOD SLEEPERS AT 24" O.C. RUNNING PARALLEL TO ROOF SLOPE (NOT SHOWN). (E) GYPSUM CONCRETE PLANK DECK NOTE: EXISTING ROOF SLOPE IS 45 DEG. EXISTING ROOFING SYSTEM 2 N.T.S

SUMMARY SCOPE OF WORK - CLAY TILE ROOFING

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.

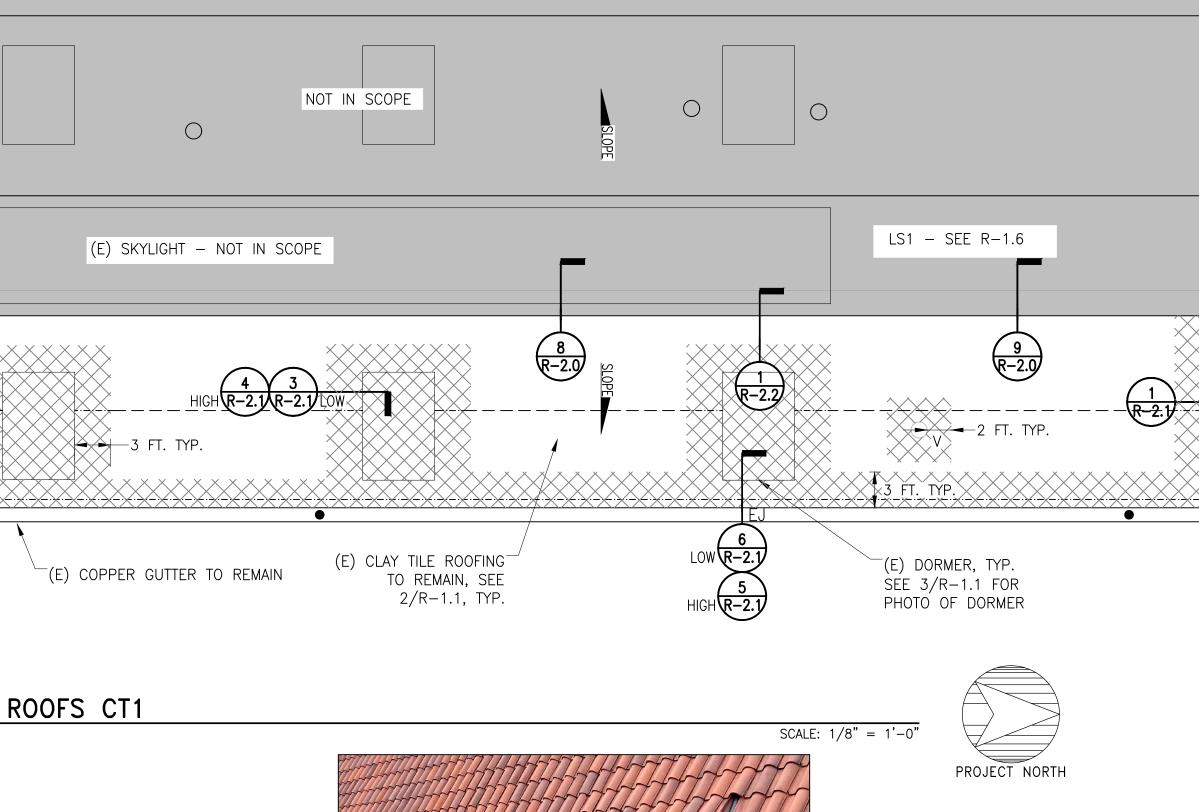
BASE BID

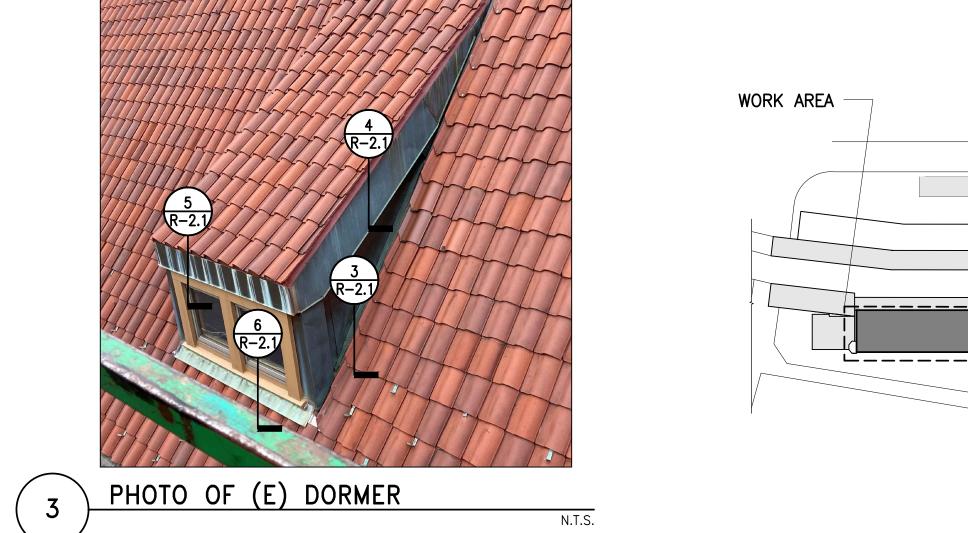
- A. ROOF CT1: STEEP-SLOPED ROOFS AT NORTH AND SOUTH WINGS
- 1. REMOVE THE EXISTING CLAY TILE ROOFING AT THE LOCATIONS SHOWN ON THE DRAWINGS, INCLUDING AT THE PERIMETER OF THE ROOF, AT AND AROUND THE ROOF DORMERS, AND AT ROOF PENETRATIONS. REMOVE EXISTING ROOFING DOWN TO PLYWOOD ROOF SHEATHING (TO REMAIN). REMOVE THE CLAY ROOF TILES, FELT UNDERLAYMENT, AND METAL FLASHINGS. SALVAGE THE EXISTING, UNDAMAGED, CLAY ROOF TILES FOR REINSTALLATION.
- 2. REMOVE AND REPLACE INDIVIDUAL EXISTING DAMAGED ROOF TILE AT AREAS OF CLAY TILE ROOFING TO REMAIN.
- PROVIDE NEW SELF-ADHERED MEMBRANE UNDERLAYMENT AT THE PERIMETER OF THE ROOF, AT AND AROUND DORMERS, AND AT ROOF PENETRATIONS, AS SHOWN ON THE DRAWINGS. PROVIDE NEW FELT PROTECTION LAYER OVER SELF-ADHERED MEMBRANE. INTEGRATE SELF-ADHERED MEMBRANE UNDERLAYMENT WITH EXISTING FELT UNDERLAYMENT TO REMAIN.
- 4. PROVIDE NEW COPPER FLASHING AT THE CLAY TILE ROOFING INCLUDING: COPPER CLADDING AT DORMER SIDE WALLS, STEP FLASHING AT RISING WALLS (AT DORMERS AND RAKES), RIDGE FLASHING, PIPE PENETRATION FLASHING, FLASHING AT DORMER ROOFS, AND EAVE FLASHING. INTEGRATE METAL FLASHING WITH THE NEW SELF-ADHERED MEMBRANE UNDERLAYMENT.
- REINSTALL EXISTING CLAY ROOF TILES, REPLACE DAMAGED ROOF TILES IN-KIND.
- REMOVE AND REINSTALL THE EXISTING SNOW FENCE AT THE SOUTH WING EAST ELEVATION. RE-USE EXISTING BASE PLATES AND PROVIDE NEW RAILS. 7. PROVIDE NEW SNOW CLEATS AT THE NORTH WING EAST ELEVATION, AND AT THE WEST ELEVATION OF THE
- NORTH AND SOUTH WINGS. B. 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 OBRING PUBLE OSES/RUSE AHE 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 CLAY TILE (TOTAL FOR ALL CLAY TILE ROOF AREA ITEM

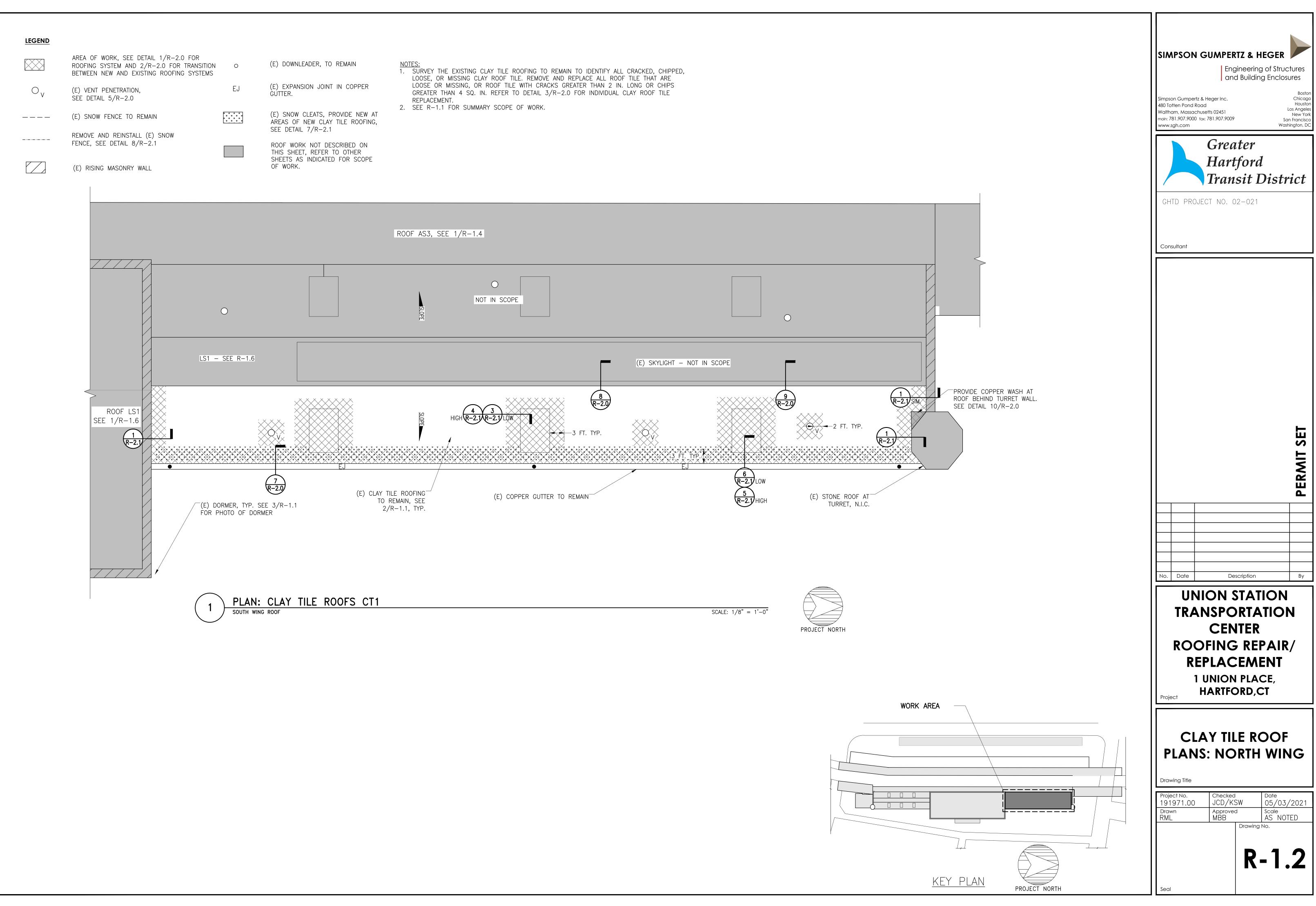
REMOVE AND REPLACE DETERIORATED F SHEATHING AND ROOF INSULATION REPLACE INDIVIDUAL LOOSE, MISSING CLAY ROOF TILES IN THE FIELD OF INCLUDING ROOF TILES DAMAGED FROM REPAIR CRACKED SOLDER JOINTS IN COPPER GUTTERS TO REMAIN BY EXISTING SOLDER AND RESOLDERING REPAIR HOLES IN THE EXISTING COPPE REMAIN BY SOLDERING A COPPER PA EXISTING HOLE OR TEAR

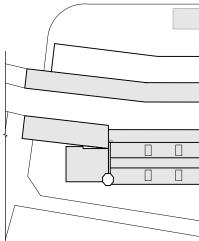
ROOF AS3, SEE 1/R-1.4





ROOFING TO BE INCLUDED IN THE BASE BID AS) QUANTITY UNIT PLYWOOD ROOF 80 SF G, OR DAMAGED THE ROOF (NOT MREMOVAL) 60 EA N THE EXISTING REMOVING THE 10 LF OPLTER STO 5 EA						,			
	EAS) D PLYWOOD ROOF IG, OR DAMAGED THE ROOF (NOT DM REMOVAL) IN THE EXISTING	QUANTITY 80 60	UNIT SF EA			Simpson Gump 480 Totten Ponc Waltham, Mass main: 781.907.90 www.sgh.com	ertz & Heger Inc. d Road achusetts 02451 00 fax: 781.907.9009	gineering of d Building Er ater tford sit Di	Structures nclosures Boston Chicago Houston Los Angeles New York San Francisco Washington, DC
			EA			GHTD PR	OJECT NO. (02-021	
	PATCH OVER THE								
PLANS: SOUTH WING Drawing Title Project No. Checked Date 05/03/2021 Drawn Approved Scale RML MBB AS NOTED Drawing No. R1.1						U TR RO	NION ANSPC CEN OFING EPLAC	STATIC ORTATI NTER S REPA SEMEN	
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KEY PLAN						Drawn		d Scc AS Drawing No.	note NOTED
	KEY	Plan	PROJECT	NORTH		Seal			





LEGEND

•	(E) DOWNLEADER, TO REMAIN
	(E) DUCT. SEE DETAIL 10/R-3.0
EJ	EXPANSION JOINT IN COPPER GUTTER. SEE DETAIL 1/R–3.1
LP	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.

2/R-1.3 FOR EXISTING AND 1/R-3.0 FOR NEW 4 R-3.0 (<u>2</u>) R-3.0 ASPHALT SHINGLE ROOFING, SEE 2/R-1.3 FOR EXISTING AND 1/R-3.0 FOR NEW_ MATCHLINE A R-3.0 $\begin{pmatrix} 2\\ R-3.0 \end{pmatrix}$

ASPHALT SHINGLE ROOFING, SEE

ASPHALT SHINGLE ROOFING, SEE 2/R-1.3 FOR EXISTING AND 1/R-3.0 FOR NEW_ MATCHLINE B $\begin{pmatrix} 2\\ R-3.0 \end{pmatrix}$

NOTE: BIRD NETTING NOT PRESENT AT THIS ROOF



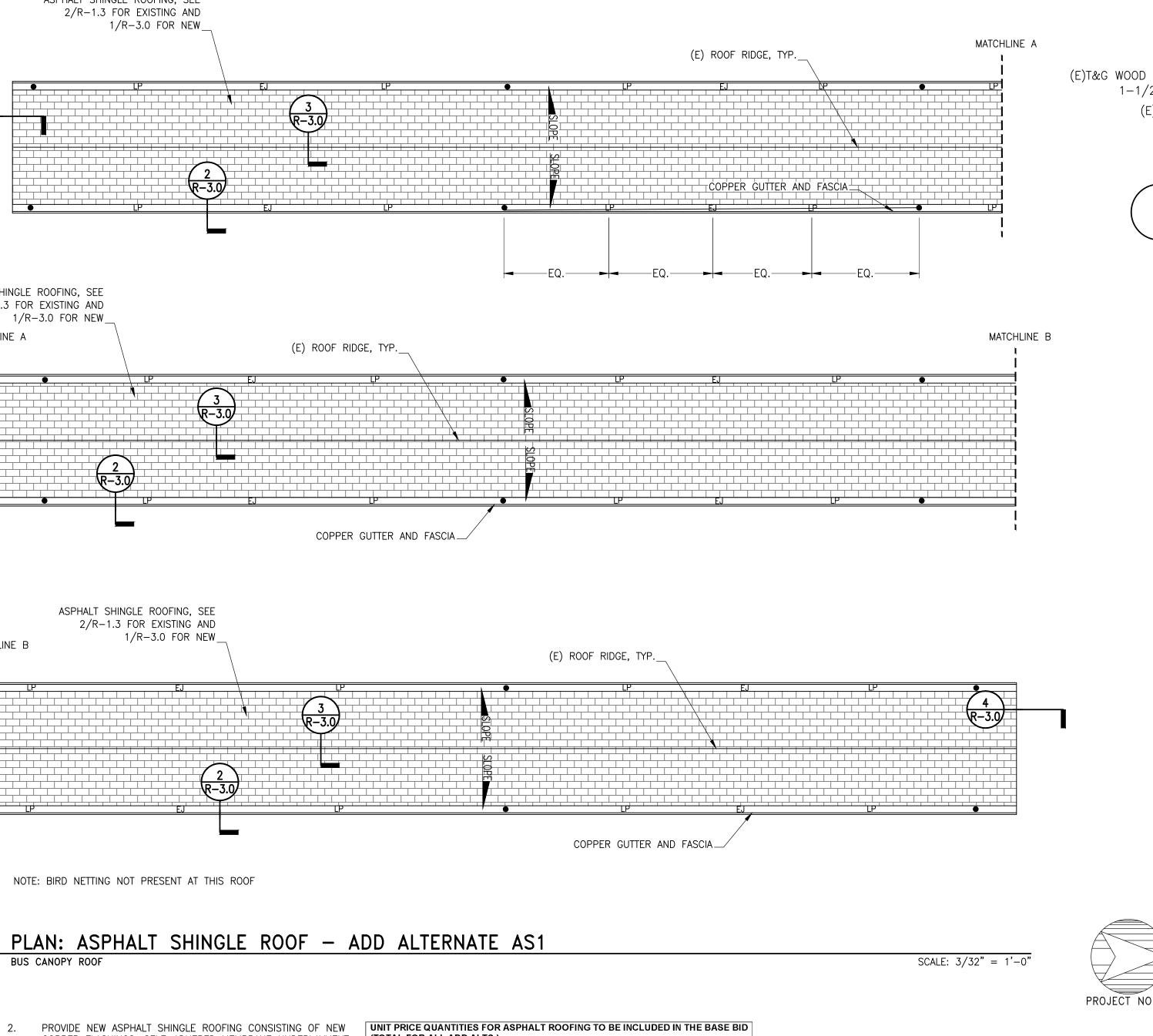
SUMMARY SCOPE OF WORK - ADD ALTERNATE AS1 AND AS3:

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 REMAIN).
- PROVIDÉ NEW ASPHALT SHINGLE ROOFING CONSISTING OF NEW 2. 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 1. REMOVE THE EXISTING ASPHALT SHINGLE ROOFING INCLUDING:
 - ASPHALT SHINGLES, FELT UNDERLAYMENT, AND ASSOCIATED METAL FLASHINGS, DOWN TO EXISTING WOOD DECK BOARDS (TO REMAIN).

- COPPER FLASHINGS, SELF-ADHERED MEMBRANE UNDERLAYMENT (TOTAL FOR ALL ADD ALTS.) 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 3. CEMENT IDENTIFIED AS CONTAINING ASBESTOS IN ACCORDANCE WITH THE SPECIFICATIONS.
- 4. REMOVE AND REPLACE THE COPPER SHEET METAL GUTTERS AND FASCIA.
- 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.

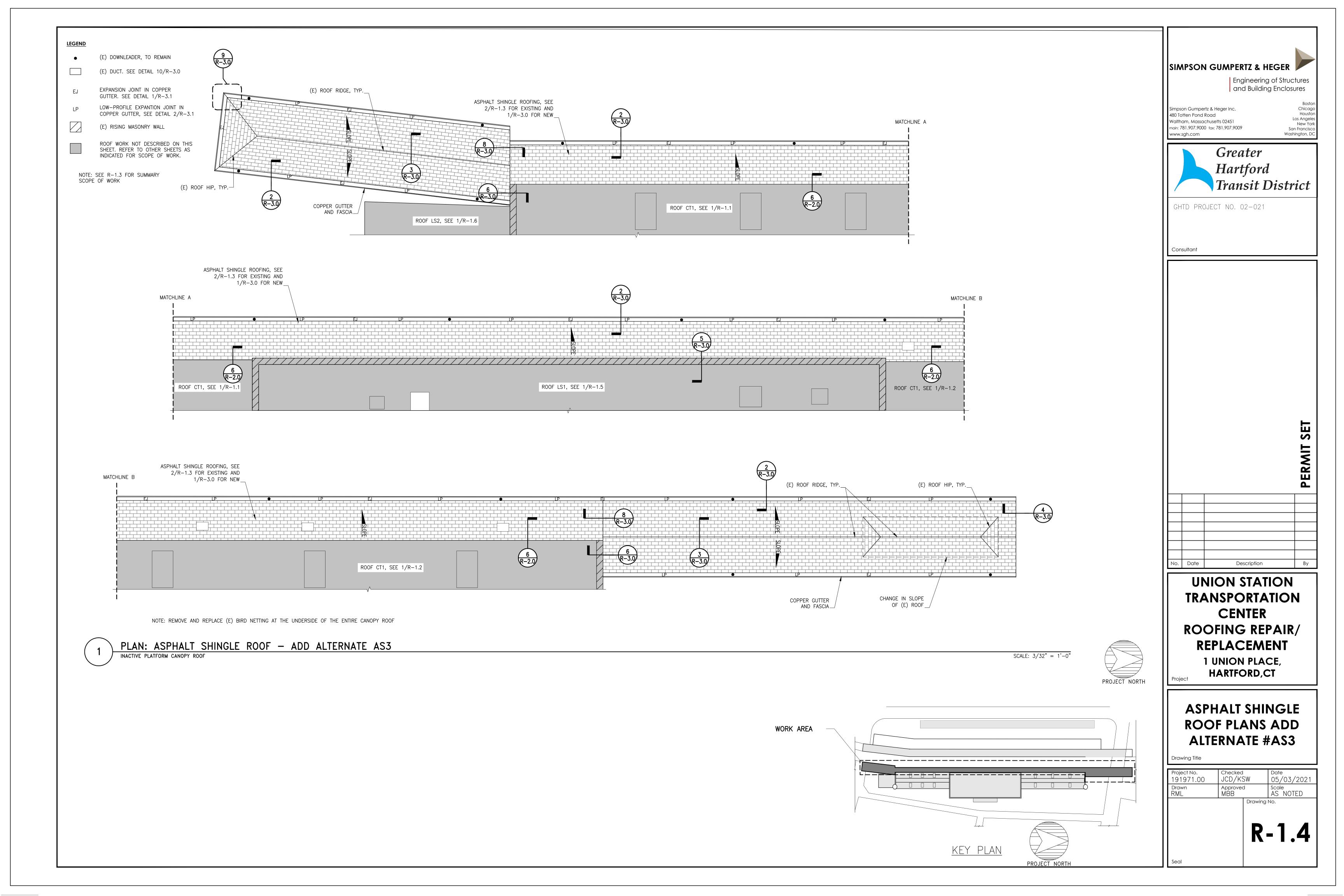


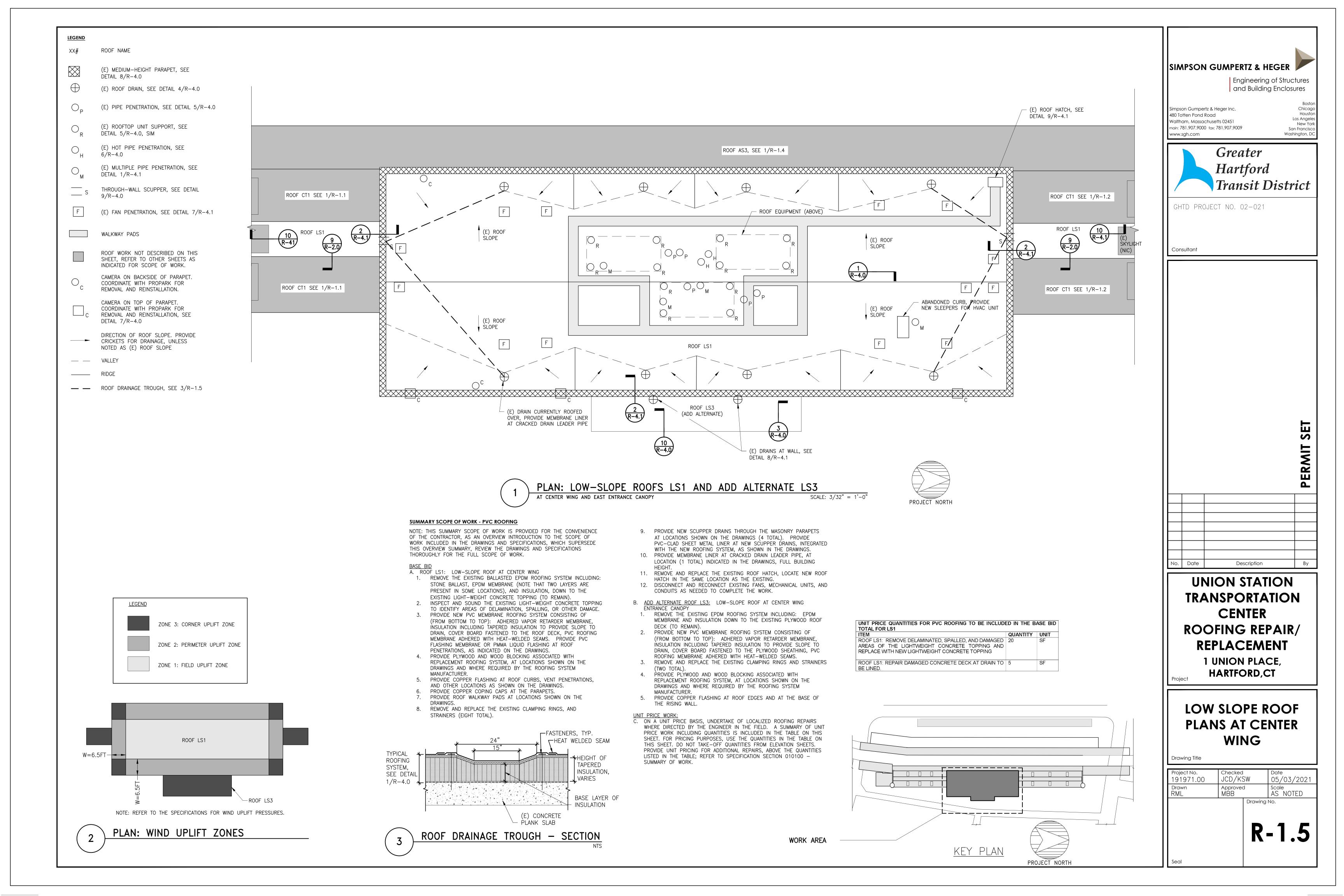
QUANTITY UNIT

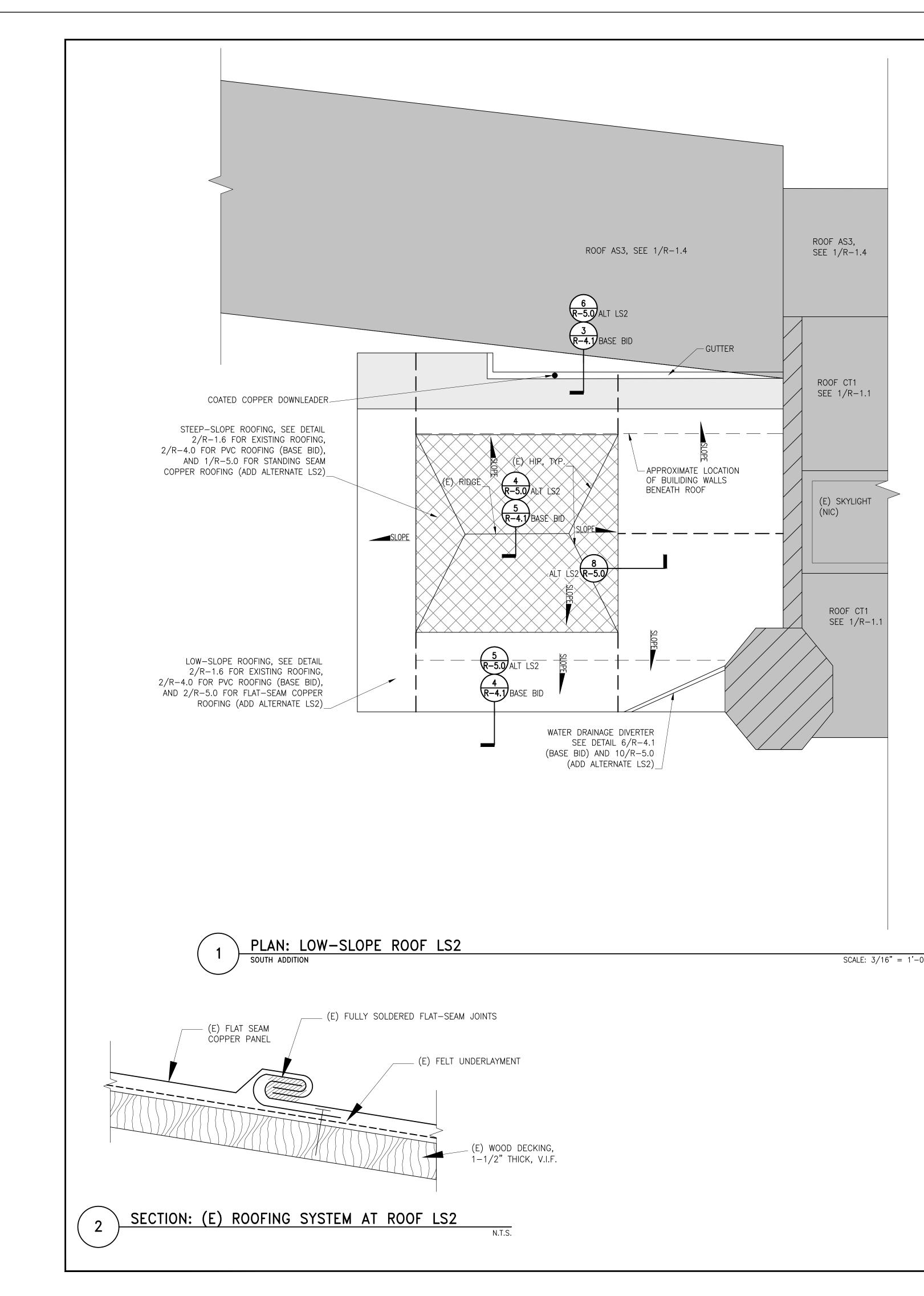
(ADD ALT. AST)		
REMOVE AND REPLACE DETERIORATED ROOF DECK	20	SF
BOARDS		
REMOVE AND REPLACE DETERIORATED WOOD SOFFIT	80	LF
BOARDS		
REATTACH EXISTING SOUND, LOOSE SOFFIT BOARDS	10	EA
ROOF AS3 (ADD ALT. AS3)		
REMOVE AND REPLACE DETERIORATED ROOF DECK	20	SF
BOARDS		
REMOVE AND REPLACE DETERIORATED WOOD SOFFIT	360	LF
BOARDS		
REATTACH EXISTING SOUND, LOOSE SOFFIT BOARDS	20	EA
EXTEND EXISTING DOWNLEADERS TO DISCHARGE AT	4	EA
GRADE		

WORK AREA -- - -_ __ __

2 EXISTING ROOFING SYSTEM	SIMPSON GUMPERTZ & HEGER Engineering of Structures and Building Enclosures Boston Chicago Houston Kabi Totten Pond Road Woltham, Massachusetts 02451 main: 781.907.9000 fax: 781.907.9009 www.sgh.com Chicago Houston San Francisco Washington, DC Washington, DC Chicago Houston San Francisco Washington, DC Chicago Houston Chicago Moston Chicago Moston Chicago Moston Chicago Moston Chicago Moston Chicago Moston Chicago Moston Chicago Moston Chicago Moston Chicago Moston Chicago Moston Chicago Moston Chicago Moston Chicago Moston Chicago Moston Chicago Moston Chicago Moston Chicago Moston Chicago Moston Chicago Moston Chicago Moston Chicago Moston Chicago Moston Chicago Moston Chicago Moston Chicago Moston Chicago Moston Chicago Moston Chicago Moston Chicago Moston Chicago Moston Chicago Moston Chicago Moston Chicago Moston Chicago Moston Chicago Moston Chicago Moston Chicago Moston Chicago Moston Chicago Moston Chicago Moston Chicago Moston Chicago Moston Chicago Moston Chicago Moston Chicago Moston Chicago Moston Chicago Moston Chicago Moston Chicago Moston Moston Chicago Moston Chicago Moston Moston Chicago Moston Moston Chicago Moston Moston Chicago Moston Moston Chicago Moston Moston Moston Moston Chicago Moston Moston Moston Moston Moston Moston Moston Moston Moston Moston Moston Moston Moston Moston Moston Moston Moston Moston Moston Moston Moston Moston Moston Moston Moston Moston Moston Moston Moston Moston Moston Moston Moston Moston Moston Moston Moston Moston Moston Moston Moston Moston Moston Moston Moston Moston Moston Moston Moston Moston Moston Moston Moston Moston Moston Moston Moston Moston Moston Moston Moston Moston Moston Moston Moston Moston Moston Moston Moston Moston Moston Moston Moston Moston Moston Moston Moston Moston Moston Moston Moston Moston Moston Moston Moston M
	Image: Description Image: Description Image: Description Image: Description
ORTH	UNION STATION TRANSPORTATION CENTER ROOFING REPAIR/ REPLACEMENT 1 UNION PLACE, HARTFORD,CT
KEY PLAN PROJECT NORTH	ASPHALT SHINGLE ROOF PLANS ADD Date #AS1 Drawing Title Project No. 191971.00 Drawn RML Drawing MB Approved MBB Drawing No. Drawing No. R-1.3







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.

<u>BASE BID</u>

A. ROOF LS2: LOW-SLOPE ROOF AT SOUTH ADDITION

1. REMOVE THE EXISTING FLAT-SEAM COPPER ROOFING INCLUDING COPPER ROOFING AND FLASHING, AND FELT UNDERLAYMENT, DOWN TO THE EXISTING WOOD DECK BOARDS (TO REMAIN).

2. 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.

3. 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 WALLS.

6. REMOVE EXISTING COPPER GUTTER AND PROVIDE NEW COPPER GUTTER WITHNEW ZINC-TIN COATED COPPER DOWNLEADERS.B. ON A UNIT PRICE BASIS, UNDERTAKE OF LOCALIZED ROOFING REPAIRS AT EACH

B. ON A ONIT PRICE BASIS, UNDERTARE OF LOCALIZED ROOFING REPARTS 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 ITEM QUANTITY UNIT

 ROOF LS2:
 REMOVE AND REPLACE DETERIORATED WOOD
 20
 SF

 ROOF BOARDS
 SF

ADD ALTERNATE

- 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.

LEGEND

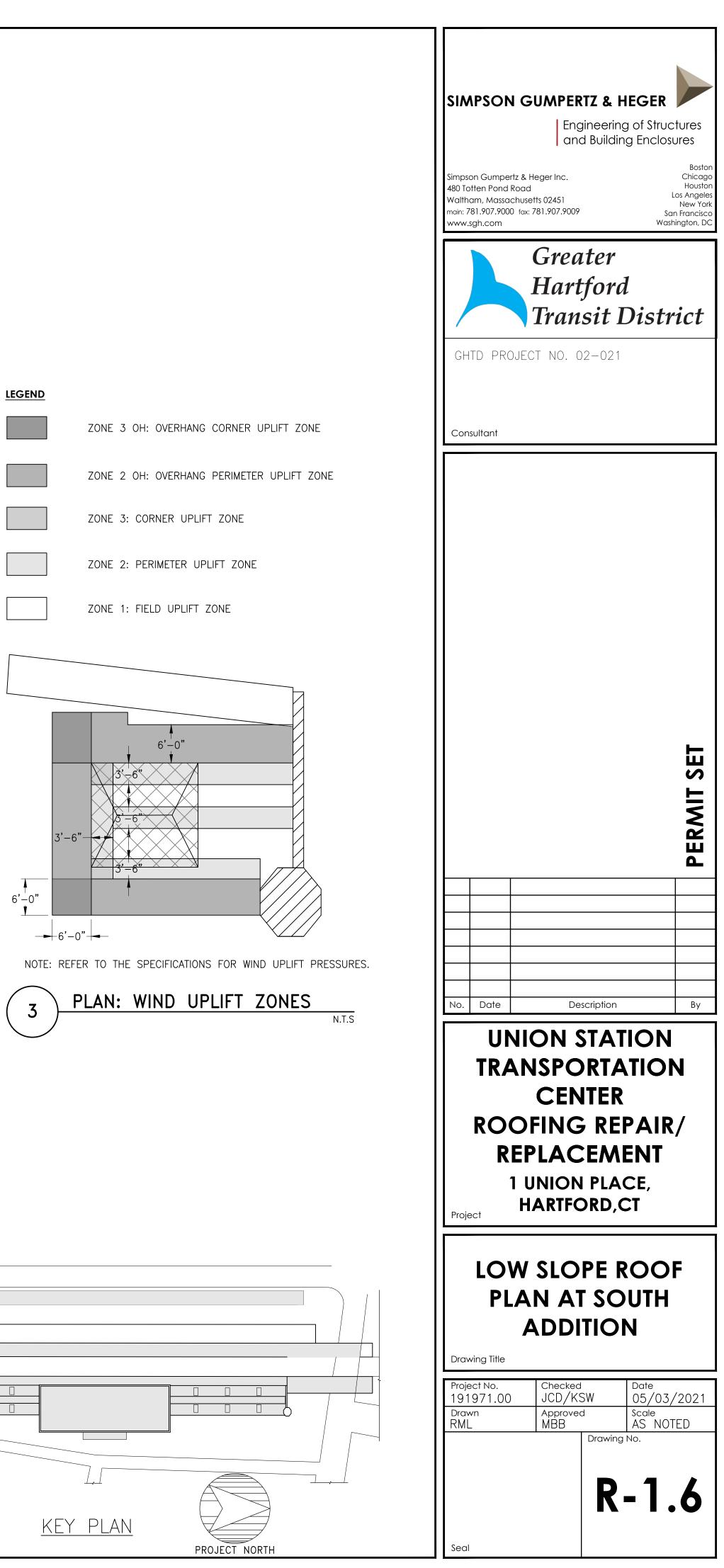
	(E) MASONRY RISING WALL, SEE DETAIL 2/R-4.1 BASE BID AND DETAIL 7/R-5.0 ADD ALT. #LS2
	STEEP-SLOPE AREA OF THE ROOF, SEE DETAIL 2/R-4.0 BASE BID AND DETAIL 1/R-5.0 ADD ALT. #LS2
<u> </u>	ADD ALTERNATE #LS2: EXPANSION JOINT IN FLAT—SEAM COPPER ROOFING. SEE DETAIL 9/R—5.0
	ROOF WORK NOT DESCRIBED ON THIS SHEET, REFER TO OTHER SHEETS AS INDICATED FOR SCOPE OF WORK

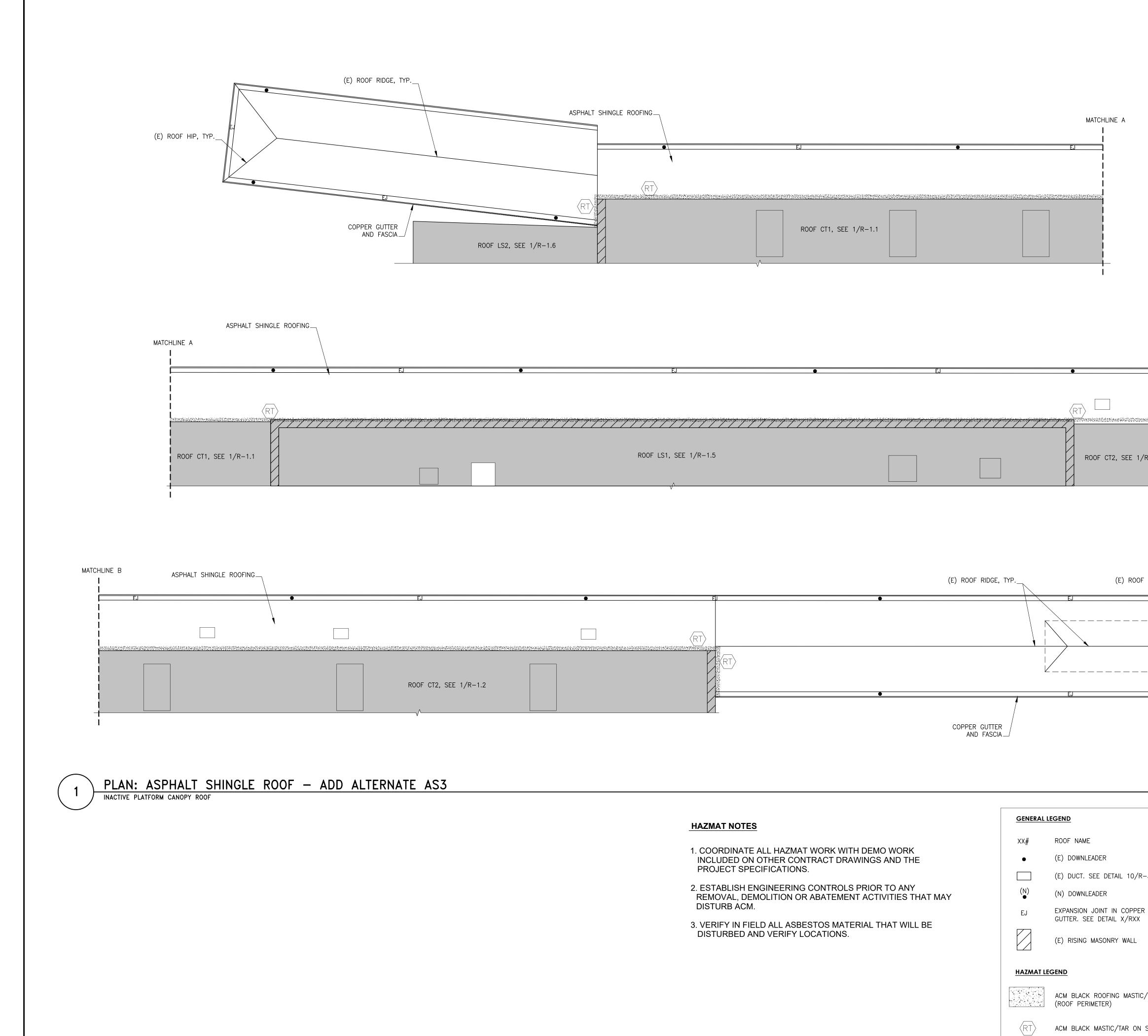
WALKWAY PADS – BASE BID ONLY



PROJECT NORTH

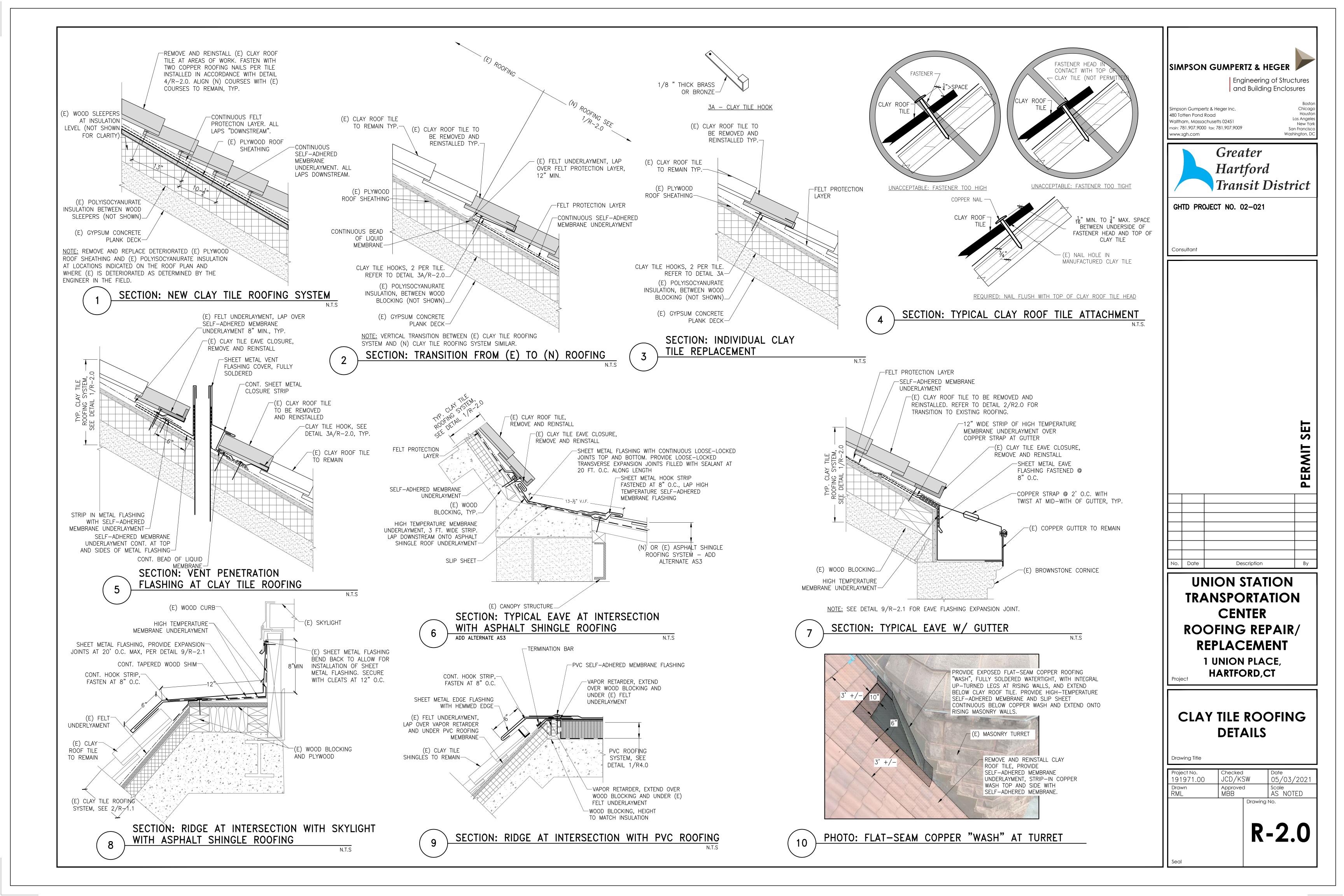
WORK AREA

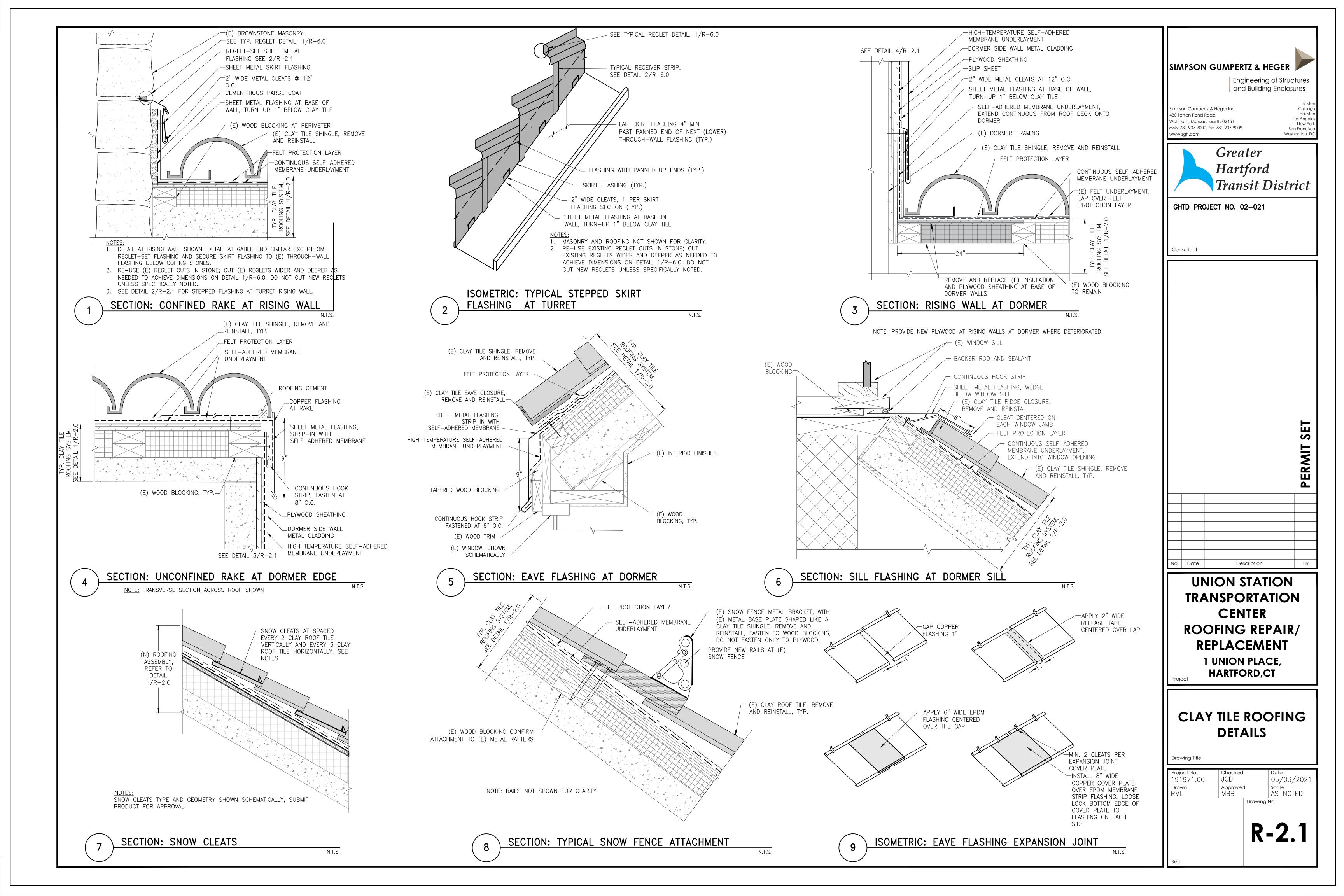


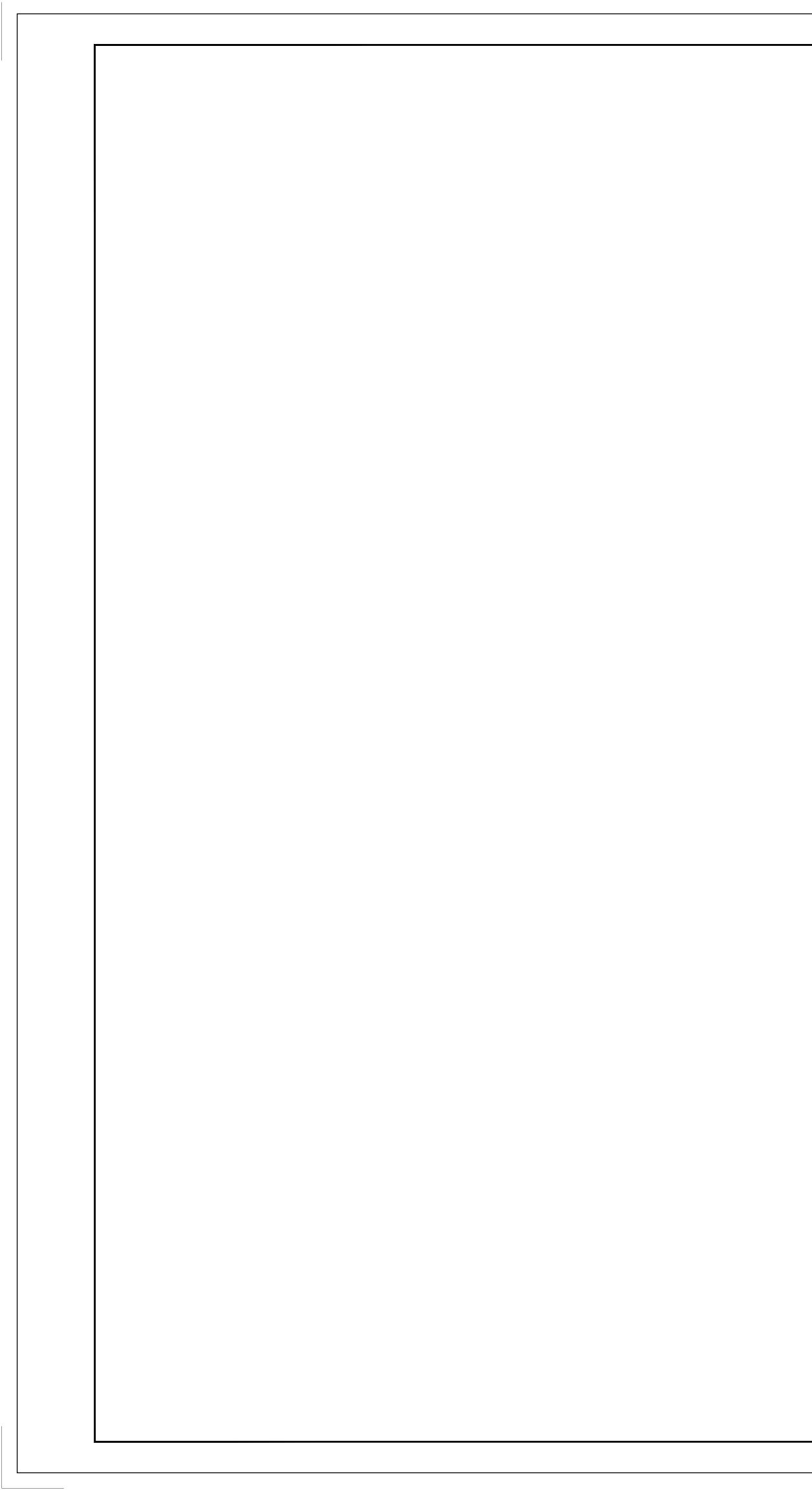


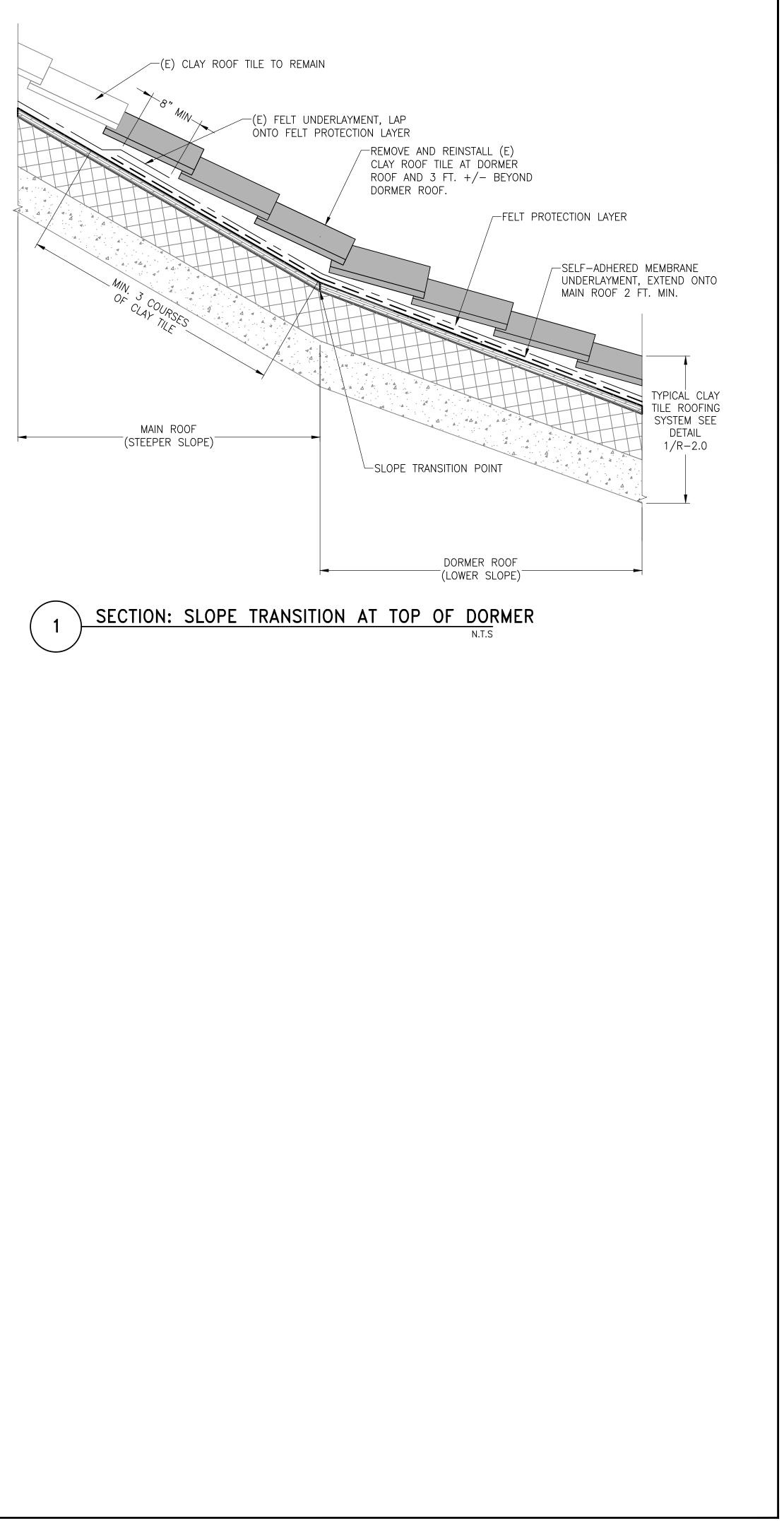
ROOF LS1, SEE 1/R-1.5		ROOF CT2, SEE 1/
V		

		SIMPSON GUMPERTZ & HEGER Engineering of Structures and Building Enclosures Simpson Gumpertz & Heger Inc. 480 Totten Pond Road Waltham, Massachusetts 02451 main: 781.907.9000 fax: 781.907.9009 www.sgh.com
		Greater Hartford Transit District GHTD PROJECT NO. 02-021
MATCHLINE B		Consultant
1/R-1.2		
		PERMIT SET
OF HIP, TYP.		No. Date
SCALE: 3/32" = 1'-0"		UNION STATION TRANSPORTATION CENTER ROOFING REPAIR/ REPLACEMENT 1 UNION PLACE, HARTFORD,CT
/R-3.0 PER X	PROJECT NORTH	ACM ASPHALT SHINGLE ROOF PLAN Drawing Title
TIC/TAR		Project No. 191971.00 Checked Date 05/03/2021 Checked Scale AS NOTED Drawing No. Checked Scale AS NOTED Drawing No.
		Seal

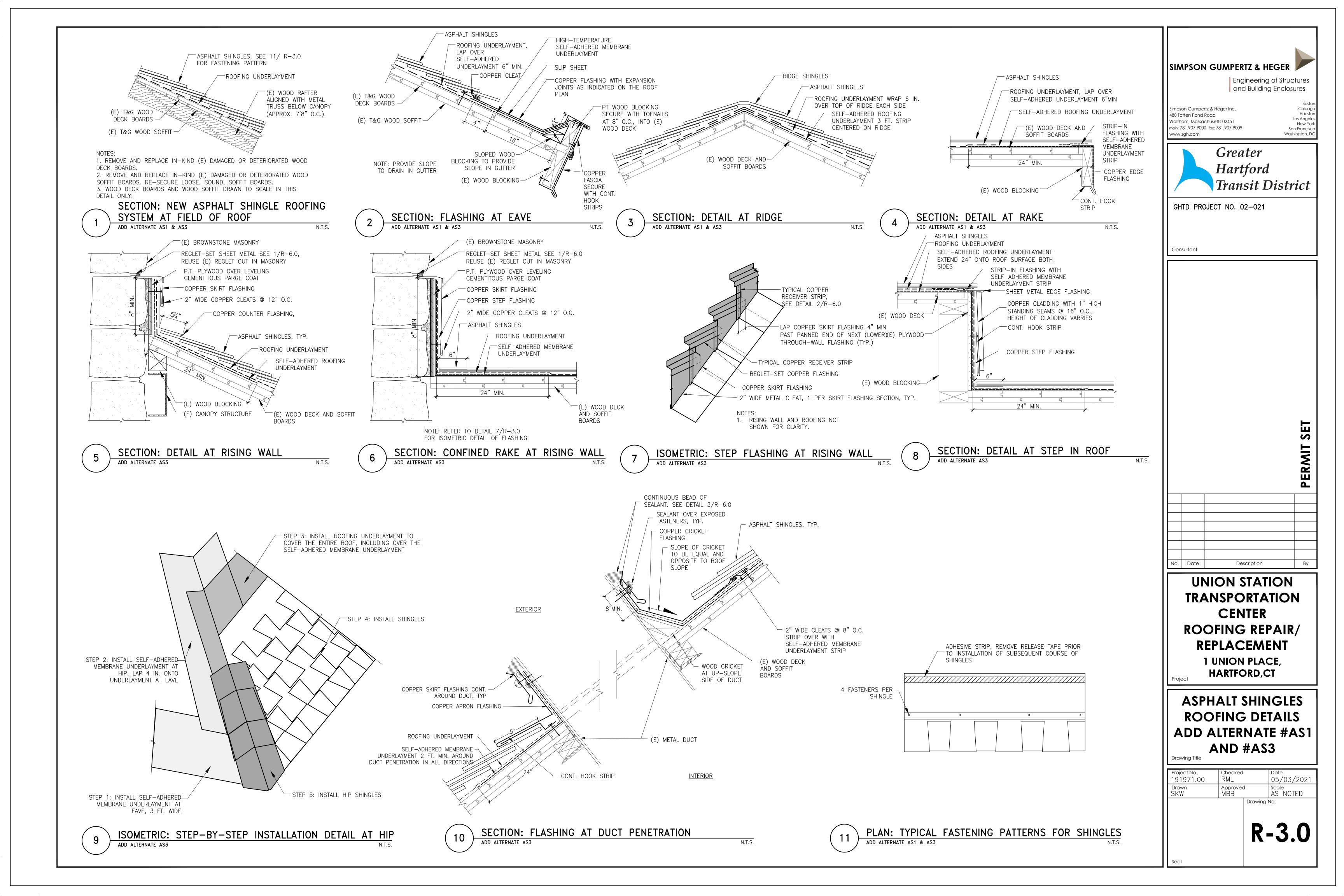


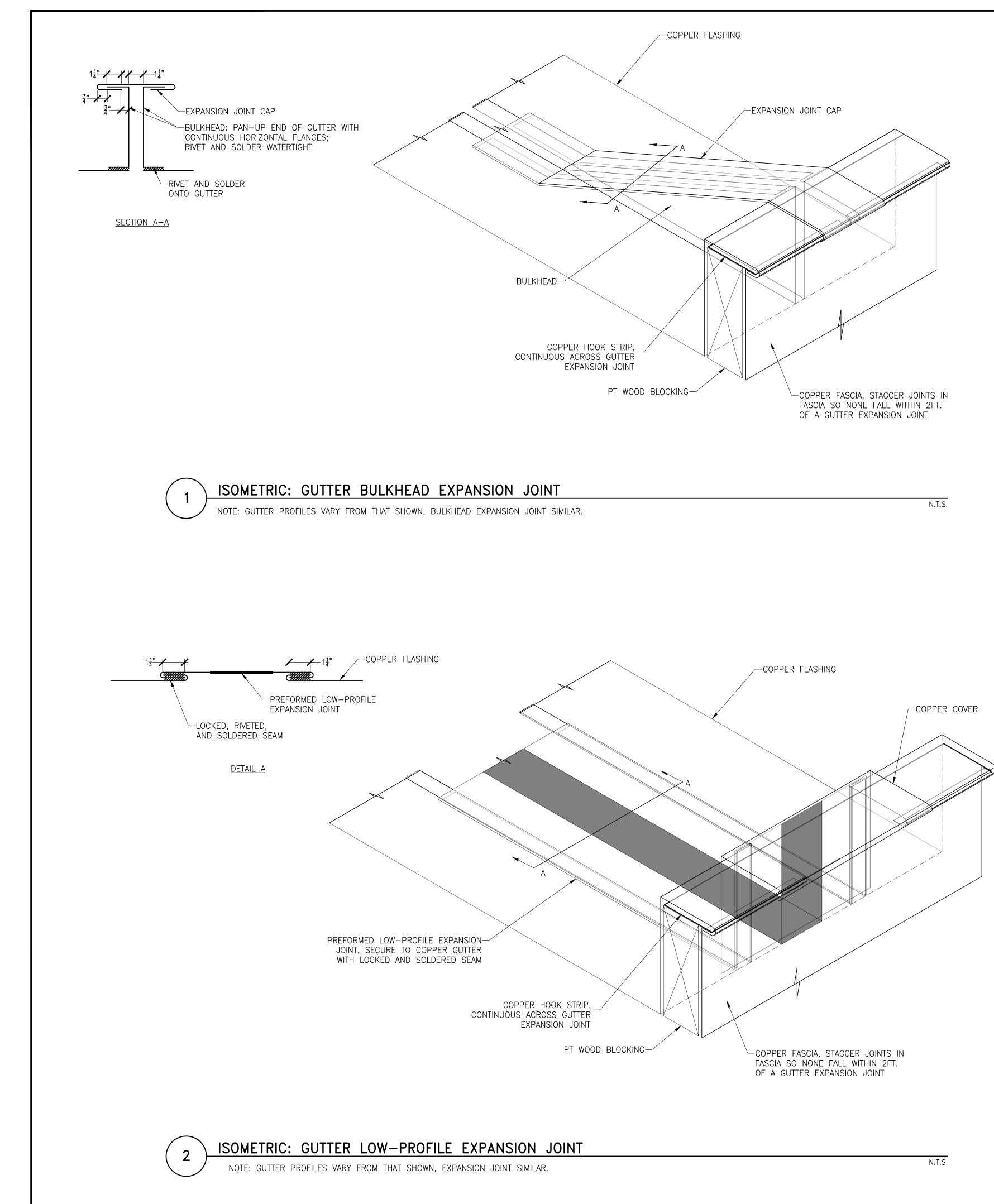


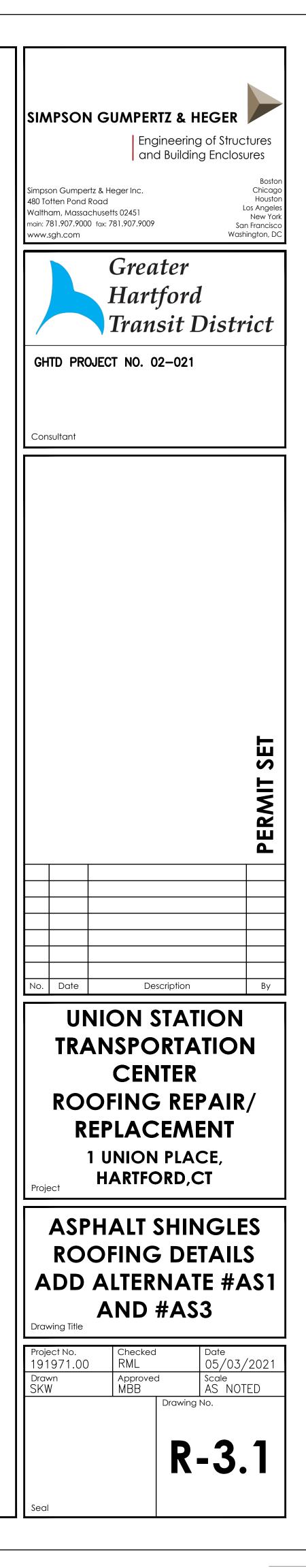


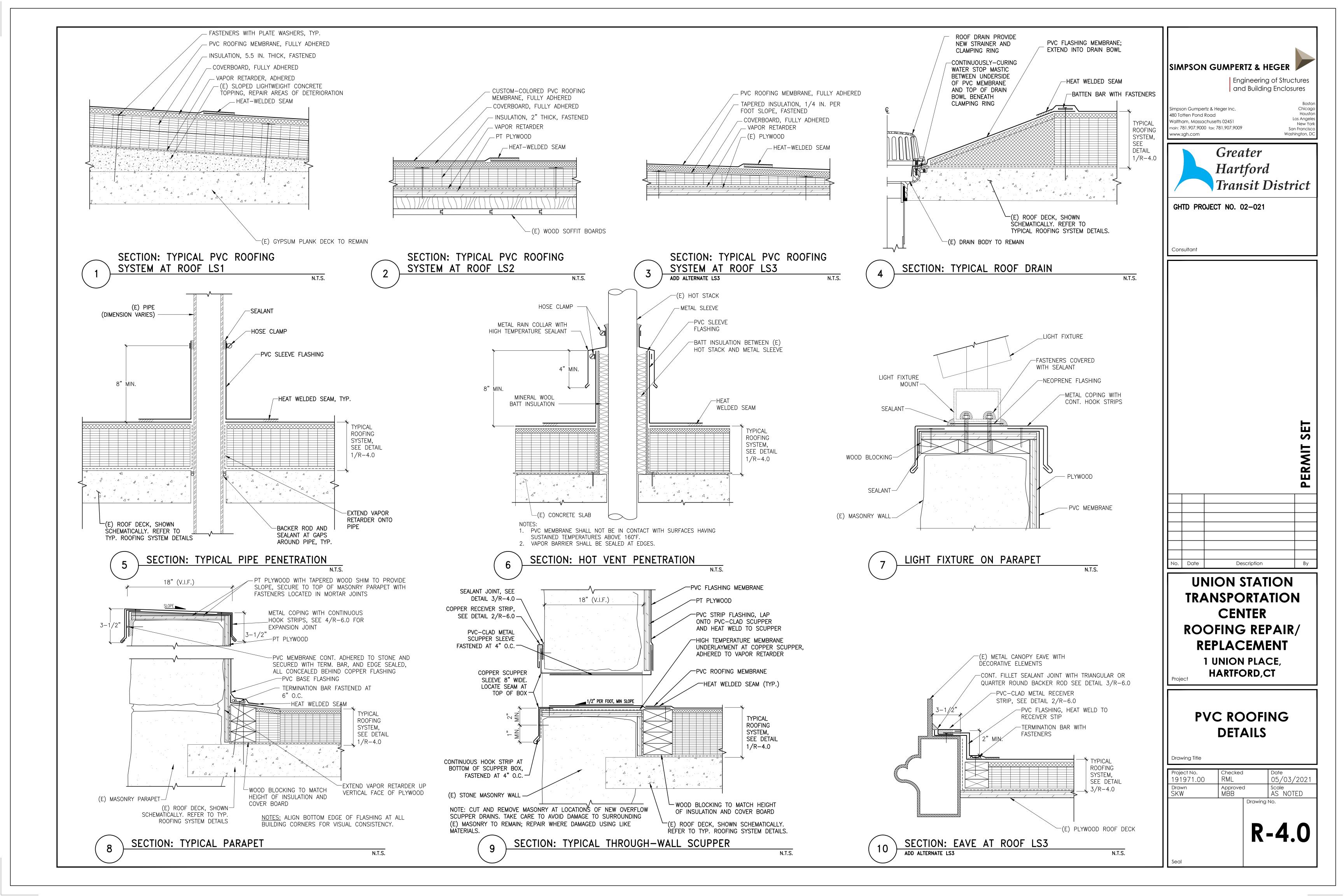


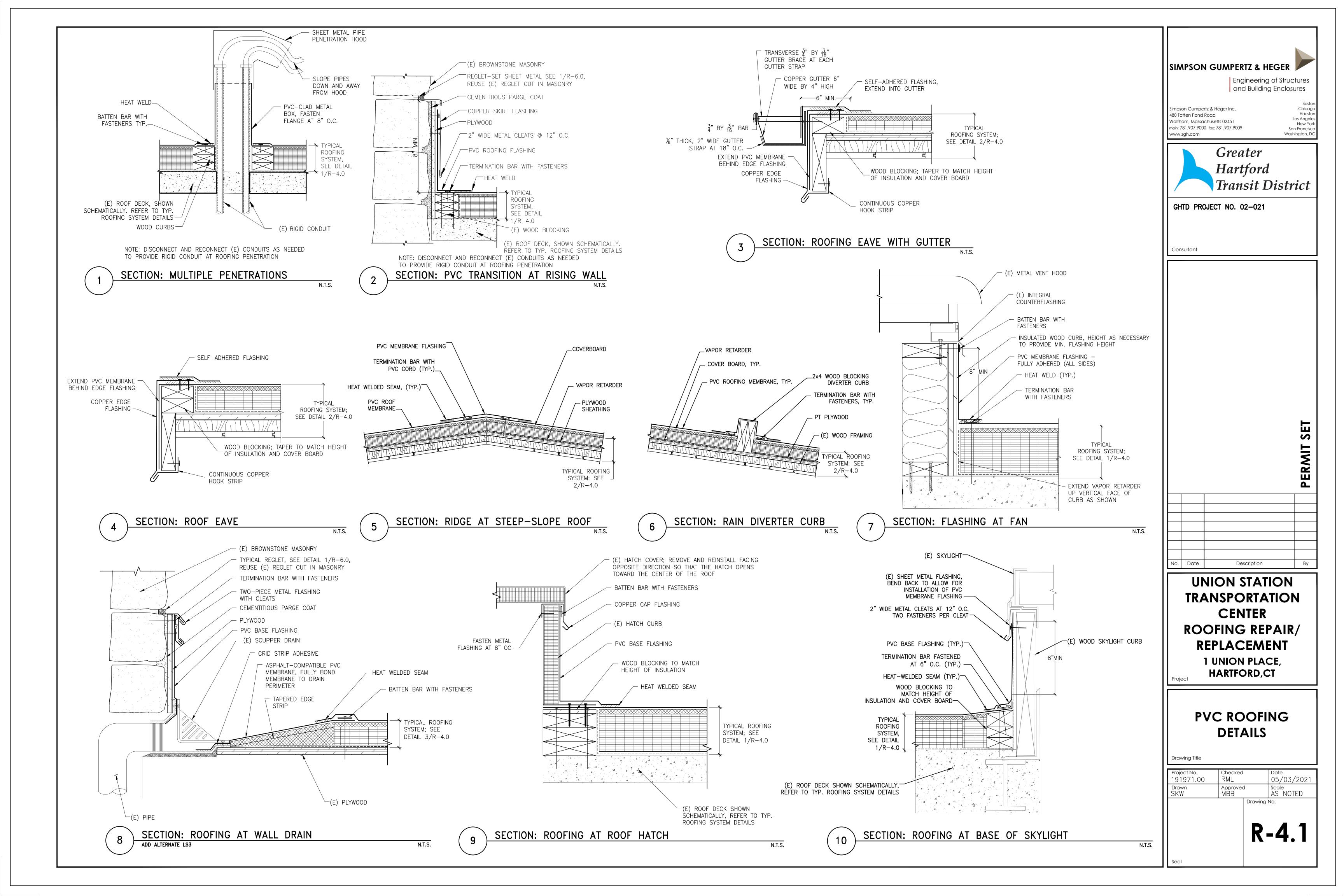
SIMPSON GUMPERTZ & HEGER			
Engineering of Struct and Building Enclose			
main: 781.907.9000 fax: 781.907.9009 Sa	Boston Chicago Houston Los Angeles New York n Francisco hington, DC		
Greater Hartford Transit District			
GHTD PROJECT NO. 02-021			
Consultant			
	PERMIT SET		
No. Date Description	Ву		
UNION STATION TRANSPORTATION CENTER ROOFING REPAIR/ REPLACEMENT 1 UNION PLACE, HARTFORD,CT			
CLAY TILE ROOFIN DETAILS	G		
Project No. Checked Date 191971.00 JCD 05/03/ Drawn Approved Scale RML MBB AS NOT Drawing No.			
Seal R-2 .	.2		

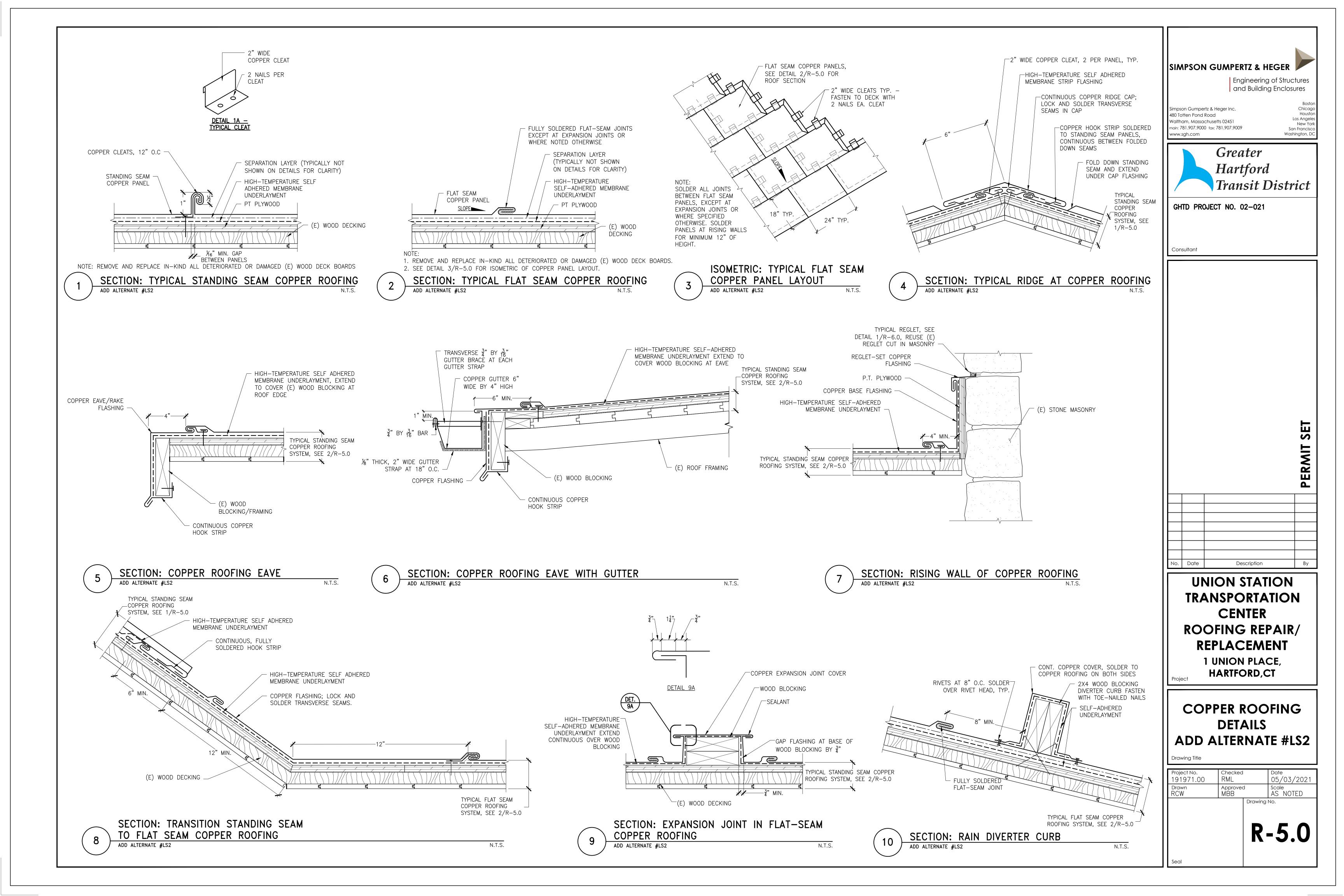


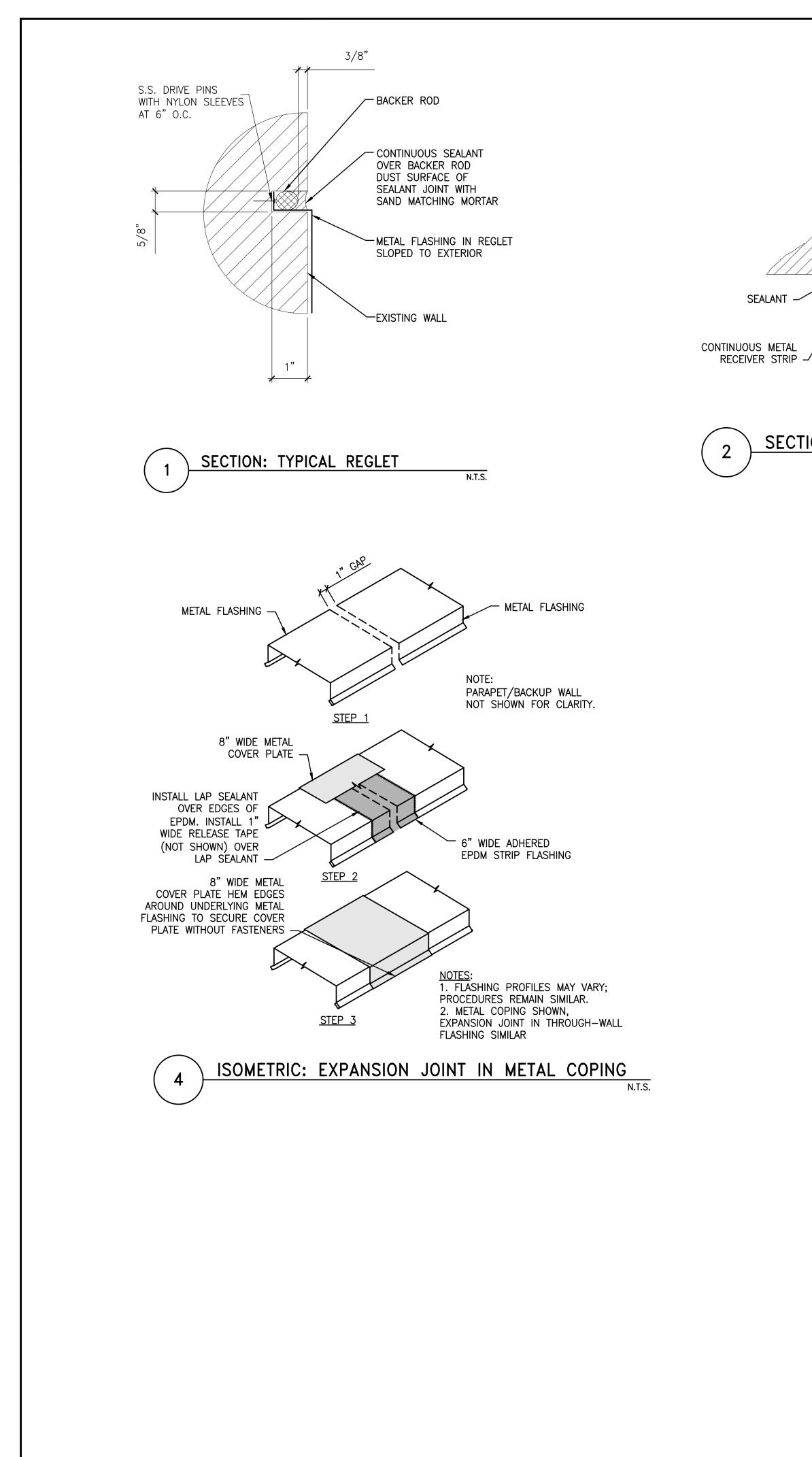


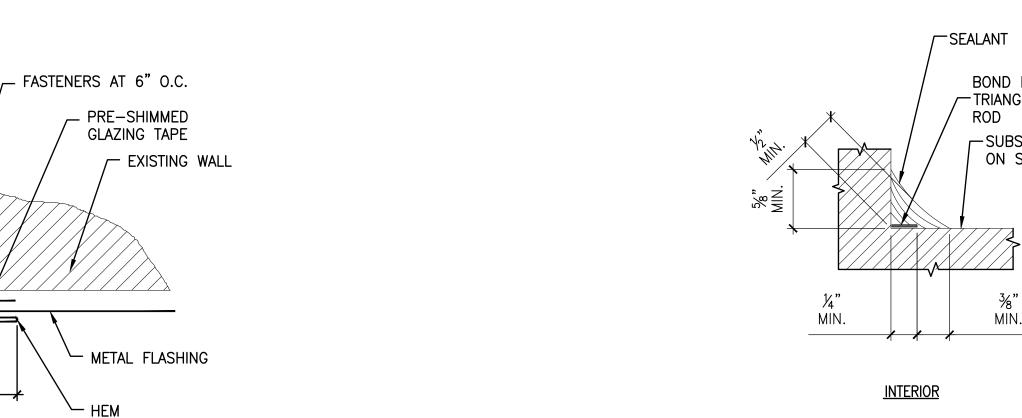




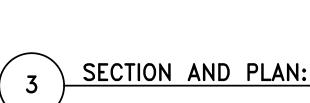








SECTION: TYPICAL RECEIVER STRIP N.T.S.



FILLET GEOMETRY

<u>Exterior</u>		<u>EXTERIOR</u>			SIMPS	ON (GUMPEI	RTZ & H	EGER	
	E AS NOTED	–SUBSTRATE AS NO	ITED ON SPECIE		Simpson Gu 480 Totten	Impertz 8 Pond Roc	Heger Inc.	gineering d Buildin	g of Struc g Enclosi	
ON SPEC	IFIC DETAILS		SEALANT		Waltham, N main: 781.90 www.sgh.c	7.9000 fc	Gree Har Tran	iter tford	Sai Wash	New Yoi In Francisc hington, D
INTERIOR LLET GEOMETRY		INTERIOR HOURGLASS GEOMETRY	(GHTD	PROJE	ECT NO. (02–021		
NOTES: 1. USE HOURGLASS IN-PLANE, PARALI JOINT. 2. USE FILLET GEOM PERPENDICULAR S 3. FOR HOURGLASS	SURFACES ON EACH GEOMETRY INSTALL INT DEPTH (D) EQU OF 1/2".	JOINTS WITH TACH SIDE OF IS WITH SIDE OF JOINT. BACKER ROD ALS 1/2W, TO A		RIES n.t.s.	Consulta	nt				
										PERMIT SET
					No. Date Description By UNION STATION TRANSPORTATION CENTER ROOFING REPAIR/ REPLACEMENT 1 UNION PLACE, HARTFORD,CT Project			N		
								,)		
					Project N 19197 Drawn SKW		Checked RML Approve MBB		Date 05/03/ Scale AS NOT No.	
					Seal			R	-6.	.0