



ADDENDUM NO. 1 TO PROJECT NO. Q1558

**REPLACE GYM & STABLE ROOFS
STATE ARMORY
955 WASHINGTON STREET
PEEKSKILL, NY 12242**

August 23, 2013

NOTE: This Addendum forms a part of the Contract Documents. Insert it in the Project Manual. Acknowledge receipt of this Addendum in the space provided on the Bid Form.

CONSTRUCTION SPECIFICATIONS

1. SECTION 076000 FLASHING AND TRIM
Article 2.04
ADD the following sentence to Subparagraph B:
“Prefabricate and fully miter and solder all inside and outside corners pieces of all exposed flashings and counter-flashings.”
2. SECTION 076110 METAL SHINGLE ROOF SYSTEM: **ADD** the attached Section (pages 076110-1 to 076110-4) to the Project Manual.

CONSTRUCTION DRAWINGS

1. DRAWING NO. A-101, “ROOF PLAN, GENERAL NOTES, ROOF ASSEMBLY INFORMATION,”
Detail 1 – “Roof Plan”
On roof Area “D”, **CHANGE** the reference detail 7/A-502 to read 1/A-502 where the +/- 8 inch roof step transition exists.
2. DRAWING NO. A-201, “MASONRY AND WINDOW DEMOLITION ELEVATIONS,”
Removal Scope of Work Notes
DELETE Key Note “D4”. This note is not used.
3. DRAWING NO. A-501, “MASONRY AND WINDOW DEMOLITION ELEVATIONS,”
Detail 1 – “Typical Roof System & Stone Coping Detail” & Detail 6 – “Coping End & Head Joints”
ADD the following note and leader to the coping stone joints,
“Set coping stones on bedding mortar; mortar head joints solid. At coping end head joints provide sealant joint between stone and copper flashings.”

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4. DRAWING NO. A-502, "MASONRY AND WINDOW DEMOLITION ELEVATIONS,"

Detail 4 – "Cast Iron Vent Detail"

REPLACE note "0.040 mil Finish Alum. Umbrella w/ S.S. drawband (typ)" in its entirety with:

"16 o.z. Copper Umbrella w/ Stainless Steel drawband (typ)."

Detail 11 – "Capped Skylight Detail"

REPLACE note "0.050 Alum. Counterflashing fastened w/ EPDM washered S.S. screws @ 9" O.C. Lap & Seal Joints, provide pre-fab outside corners (typ)" in its entirety with:

"16 o.z. Copper Counterflashing fastened w/ EPDM washered S.S. screws @ 9" O.C. Lap & Seal Joints, provide pre-fab soldered outside corners (typ)."

5. DRAWING NO. A-504, "WINDOW DETAILS"

Detail 5 – "Proposed Window 'C'"

CHANGE the reference detail tag at the window head to read 9/A504.

CHANGE the reference detail tag at the window sill to read 11/A504.

Detail 9 –

ADD detail as indicated on attached sheet ADD1.1 entitled "Window "C" Head Detail"

Detail 11 –

ADD detail as indicated on attached sheet ADD1.2 entitled "Window "C" Sill Detail"

6. DRAWING NO. A-505, "MASONRY & WINDOW DETAILS"

Detail 2 – "Head Window 'A'"

REPLACE note "Infill Spandrel Beam Solid with Mortar, set copper flashing into formed reglet with lead wedges and sealant" in its entirety with:

"Infill Spandrel Beam Solid with Mortar, set *stainless steel fabric flashing* into formed reglet with lead wedges and sealant."

Detail 3 – "Head Window 'B'"

REPLACE note "Set copper flashing into formed reglet with lead wedges and sealant" in its entirety with:

"Set *stainless steel fabric flashing* into formed reglet with lead wedges and sealant."

END OF ADDENDUM

James Dirolf, P.E.
Director of Design

SECTION 076110

METAL SHINGLE ROOF SYSTEM

PART 1 GENERAL

1.01 RELATED WORK SPECIFIED ELSEWHERE

- A. Wood Nailers and Blocking: Section 061053
- B. SBS Modified Bitumen Roofing System: Section 075216
- C. Flashing and Trim: Section 076000.

1.03 SYSTEM DESCRIPTION

- A. Metal Shingle Roof System: Weathertight concealed nailing flange, interlocking copper shingle roof system installed over a mechanically attached plywood substrate, insulation layers, vapor retarder and existing sloped concrete deck.

1.02 SUBMITTALS

- A. Shop Drawings: Show manner of forming, jointing, and securing the Work.
- B. Product Data: Catalog sheets, specifications, and installation instructions for Type 2 Sealant.
- C. Samples:
 - 1. Metal Shingle: 6 inches square.
 - 2. Fasteners & Cleats: 6, each type.
 - 3. Sealant: One cartridge.

1.03 QUALITY ASSURANCE

- A. Fire Resistance Rating: The metal shingle roof system shall have an Underwriters Laboratories External Fire Resistance Rating as follows:
 - 1. Metal Shingles: UL Class A.
- B. Wind Resistance Rating: The metal shingle roof system shall have an Underwriters Laboratories "Wind Resistant" label.
- C. Shingle packages shall bear the UL fire resistance and wind resistant labels.
- D. Pre-Roofing Conference: Before the roofing Work is scheduled to commence, a conference will be called by the Director's Representative at the Site for the purpose of reviewing the Drawings and the Specifications and discussing requirements for the Work. The conference shall be attended by the Contractor, and the roofing applicator.

1.04 DELIVERY, STORAGE AND HANDLING

- A. Deliver materials to the Site in manufacturer's labeled, unbroken containers.
- B. Store materials on raised platforms protected from the weather with waterproof covers.
 - 1. Do not stack bundles of shingles more than 4 feet high.
 - 2. Store roll goods on end.

1.05 PROJECT CONDITIONS

- A. Do not install underlayment or shingles on wet surfaces.
- B. Do not apply shingles when air temperature is below 40 degrees.
- C. Do not perform the Work of this Section unless the Director's Representative is present or unless he directs that the Work be performed during his absence.
- D. Moisture Protection:
 - 1. Cover, seal or otherwise protect the roof and flashings so that water cannot accumulate or flow under completed portions. When and where necessary to accomplish this, provide temporary water cut-offs.
 - 2. Limit the removal of existing materials to areas that can be completely re-roofed or temporarily protected within the **same day**.

PART 2 PRODUCTS

2.01 COMPANIES

- A. MBCI – Rome, NY (315) 339-9701, www.mbc.com
- B. Paradigm Shingles, PO Box 27, Milton, VT 05468, www.paradigmshingles.com

2.01 MATERIALS

- A. Concealed Fastener Metal Shingles:
 - 1. UL Class A, classified for the wind loads indicated on the drawings.
 - a. Flex-Loc Shingle by MBCI, or Bennington Shingles by Paradigm Shingles.
 - 2. Material: .019" thick cold rolled sheet and strip copper; ASTM B370.
 - 3. Color: Mill finish.
 - 4. Exposure: 8 ½"
 - 5. Dimensions: Approximately 10 ½" x 48"
 - 6. Profile: Smooth without vertical embossments.
- B. Flux: Zinc-chloride acid killed or paste type flux.
- C. Solder: Non-lead, tin solders composition:

1. 50/50 for use with plain copper.
 2. Pure tin solder for zinc/tin coated copper.
- D. Fasteners:
1. Nails: "Stronghold" type copper nails with large head, not less than No. 12 gauge.
 2. Screws, Bolts and Other Fastening Accessories: Copper, bronze, or brass.
 3. Anchors: Lead alloy expansion shields.
- E. Felt: No. 15 asphalt saturated organic felt; ASTM D 226.
- F. Paper Slipsheet: Rosin sized building paper; 5 lbs/square.
- G. Type 2 Sealant: One-part acrylic polymer sealant; Pecora AVW-920, PTI 738, or Tremco Mono.

2.02 FABRICATION

- A. Unless otherwise shown on the Drawings or specified, fabricate the required sheet metal roofing components from the following materials and gages:
1. Cleats: 16 oz copper.
 2. Continuous Edge Strips: 20 oz copper.

PART 3 EXECUTION

3.01 PREPARATION

- A. Clean and dry all substrates before installing the Work of this Section.
- C. Install 40 mil self adhered underlayment at least 2 inches and nail 6 inches oc along laps.
- D. Over the felt, install one ply of rosin paper. Secure with a sufficient number of nails to prevent displacement before installation of metal roofing.

3.02 INSTALLATION

- A. Copper Shingle Roofing:
1. General:
 - a. Shop cut panels, form and integrate hembs and hooks for weathertight installation.
If shingles are at least 50 deg F, it is not necessary to provide gaps between the panels ends. Allow an additional 1/16" when the temperature is below 50 deg F.
 - b. Installation begins at any location along the eave by locking a joint pan over the eave edge strip.
 - c. The lower edge of the first shingles locks over both joint pans and edge strip. Shingles are secured with 5 copper nails through the pre-punched slotted holes in its upper flange, one at each end

and on either side of each embossment. Place nails close to the center of the slots and drive them so the shingle is held tightly to the underlayment, but not deformed.

- d. Additional Courses: Place joint pans at locations of vertical shingle joints, offset joints 12" O.C. from the lower courses.
- e. Roof to Adjacent Wall: Form copper step flashing over the under the shingles, minimum 4". Fold the outer edge over ½"; not less than 3" from this edge and form slip lock to receive end of panels.
- f. Change of Roof Slope: Form upper transition flashing with upper hook, locked into top panel. Solder locking strip to upper flashing.

B. Copper Diverter:

- 1. Fabricate copper diverters as shown on the drawings. Clad diverter shapes over wood blocking, fully solder to copper panels.

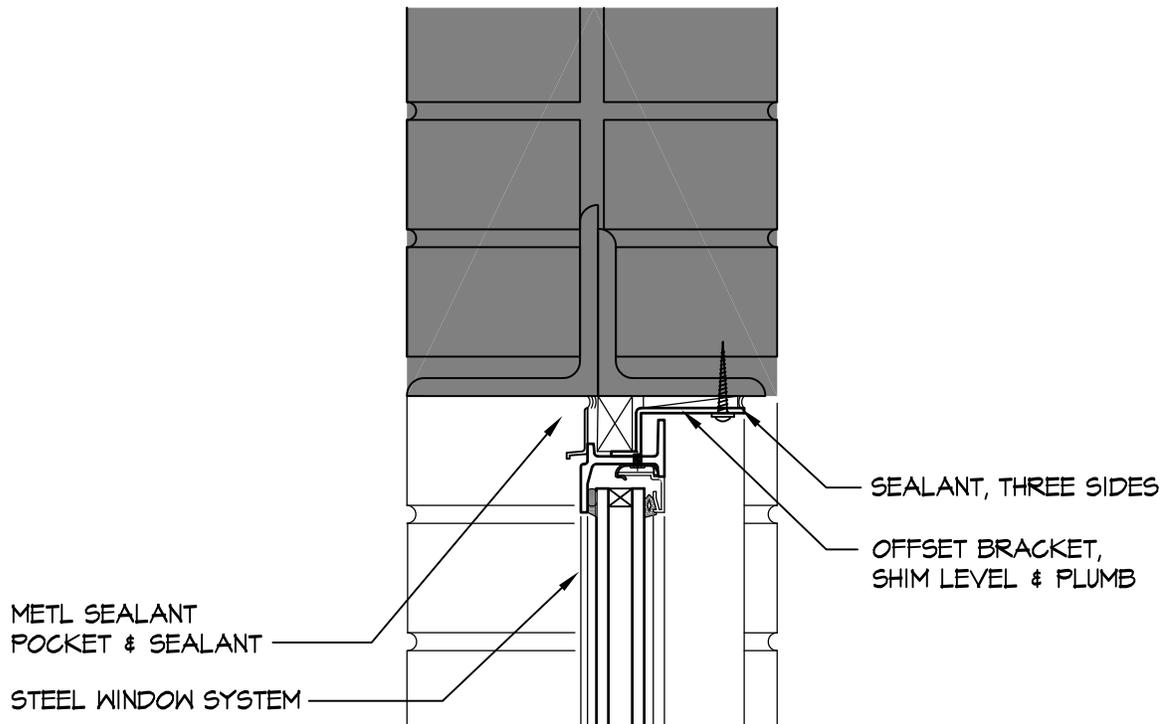
3.03 FIELD QUALITY CONTROL

A. Workmanship:

- 1. Tinning and Soldering:
 - a. Tin all surfaces of uncoated metal in contact with solder.
 - b. Wire brush all surfaces of coated metals in contact with solder. Produce a clean and bright surface.
 - c. Apply flux as required.
 - d. Sweat solder thoroughly into seams, completely filling the full width of the seam.
 - e. Upon completion of soldering, remove all traces of flux residue. If required, apply a neutralizing wash followed by a clean water wash.
- 2. Cross Folded Seams: Where sheet metal is cross folded at a right angle to the first fold, slit the folded portion of the metal at the cross fold and solder a metal patch over the slit to avoid binding.

END OF SECTION

1



9 | WINDOW 'C' HEAD DETAIL | SCALE: 3" - 1'-0"

BELL & SPINA PROJECT #: 344-12-013

ADDENDUM #1 REFERENCE DRAWING: A-504

SHEET TITLE: WINDOW 'C' HEAD DETAIL

SCALE: 3" = 1'-0"

PROJECT: REPLACE GYM & STABLE ROOFS
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PEEKSKILL, NY 12242



Serving New York

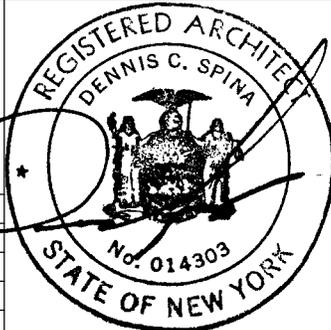
CONTRACT: S5729

PROJ. NO: Q1558-C

DATE: 8/21/2013

DRAWN: BNL

APPROVED: DKA



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DWG NO:
ADD1.1

1

REPOINT MASONRY JOINTS,
OUTER WYTHE OF MASONRY
OPENING JAMBS, TYPICAL

STEEL WINDOW SYSTEM WITH
EXTENDED LOWER LEG

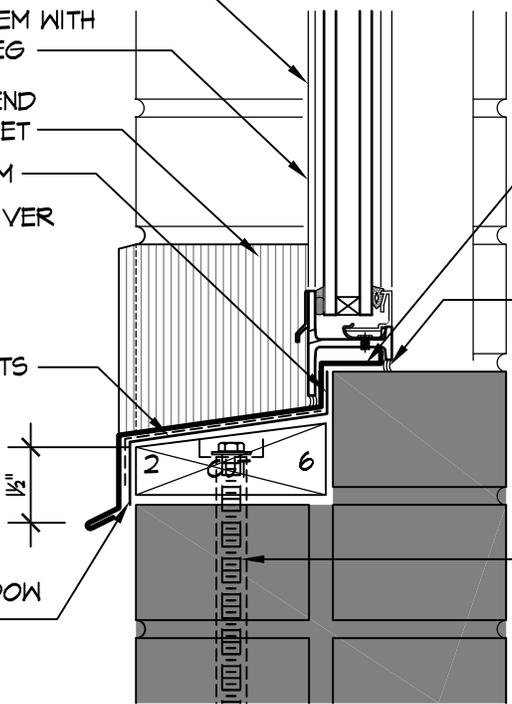
COPPER SILL PAN END
DAM, SET INTO REGLET

FABRICATE END DAM

COPPER SILL/ RECEIVER
PAN TO FIT SILL
PROFILE. SOLDER
LENGTHS TOGETHER.
PROVIDE COPPER
SPlice PLATE CLEATS

NOTE:
PROVIDE ROSEN
PAPER BETWEEN
COPPER AND SELF
ADHERED FLASHING

SELF ADHERED WINDOW
SHEET FLASHING



COPPER SUBSILL
FLASHING PAN, SET IN
BED OF SEALANT

SEALANT

3/8" EXPANSION
ANCHOR BOLTS @ 8"
EACH END AND
CENTER POINT

11 | WINDOW 'C' SILL DETAIL

SCALE: 3" - 1'-0"

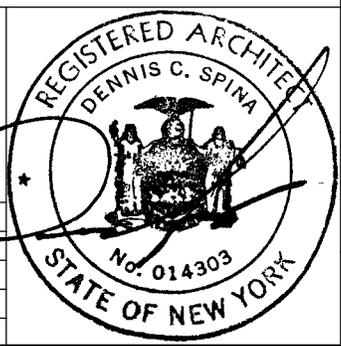
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DWG NO:
ADD1.2