ADDENDUM #2

Project: Martin Luther King Jr. Middle School Modernization
50 North Medical Center Drive
San Bernardino, CA 92411

Date: January 31, 2020

Owner: San Bernardino City Unified School District
1250 North Medical Center Drive
San Bernardino, CA 92411

Architect: John Sergio Fisher & Associates
5567 Reseda Boulevard, Suite 209
Los Angeles, CA 91356

A. This Addendum of clarifications, modifications, changes, additions, and/or deletions contained herein shall be considered part of the Bid Documents for the above referenced Project as though it had been issued at the same time and shall be incorporated integrally with the Construction Documents for the project. Where provisions of the following supplementary data differ from those of the Original Bid Documents, this Addendum shall govern and take precedence.

B. Bidders are hereby notified that they shall make any adjustments in their estimates as a result of this Addendum. It will be understood that each bidder’s proposal is submitted with full knowledge of all modifications and supplemental data specified herein.

1. CHANGES AND ADDITIONS TO THE BID DOCUMENTS-SPECIFICATIONS:

Item No. 1.01 OMIT Specification Section 07 50 00 SINGLE-PLY ROOFING

Item No. 1.02 ADD Specification Section 07 50 00 COLD PROCESS MONOLITHIC BUILT-UP ROOFING.

2. CHANGES AND ADDITIONS TO THE BID DOCUMENTS-DRAWINGS:

Item No. 2.01 REVISE Keynote #6 on sheet A202 to read "(N) BUILT-UP ROOFING SYSTEM CLASS A"

Item No. 2.02 REVISE Detail 1/A804 to show Built-Up Roofing, per ADD SK-02.1
Item No. 2.02 REVISE Detail 2/A804 to show Built-Up Roofing, per ADD SK-02.2
Item No. 2.03 REVISE Detail 4/A802 to show Built-Up Roofing, per ADD SK-02.3
ATTACHMENTS:

1. REVISED TOC.
2. ADDED specification 07 50 00 COLD PROCESS MONOLITHIC BUILT-UP ROOFING.
3. ADD SK-02.1 REVISED TYPICAL ROOFING
4. ADD SK-02.2 REVISED ROOFING AT PARAPET
5. ADD SK-02.3 REVISED EAVE SOFFIT DETAIL
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LIMITED LEAD, ASBESTOS AND HAZARDOUS MATERIALS ASSESSMENT REPORT - M.L. KING JR. MIDDLE SCHOOL, September 6, 2019, by EFI Global Inc.
SECTION 075000

COLD PROCESS MONOLITHIC BUILT-UP ROOFING

PART 1 - GENERAL

1.1 SUMMARY

A. This Section includes the following:
   1. Furnish necessary material and labor to install a Henry Roof System Specification or approved equal following the requirements of this specification and site specific Scope of Work.
   2. Other work included: Furnish and install sheet metal, metal pan collar flashing, pipe flashings and counter flashing.

B. Related Sections include the following:
   1. Section 061000 Rough Carpentry.
   2. Section 076000 Flashing and Sheet Metal
   3. Section 079000 Joint Sealants

1.2 REFERENCES

B. National Roofing Contractors Association (NRCA) Roofing and Waterproofing Manual

C. Western States Roofing Contractors Association (WSRCA)

D. Sheet Metal and Air Conditioning Contractors National Association (SMACNA)

E. Underwriters Laboratories (UL)

F. American Society of Testing & Materials (ASTM)

G. California Building Code (CBC)
1.3 DEFINITIONS


1.4 SYSTEM DESCRIPTIONS

A. Henry Specification #H4-NMC-MR MONOLITHIC SURFACE MODIFIED ROOFING SYSTEM OVER NAILABLE DECK ("SYSTEM")
Cold applied modified built-up roof. Consists of mechanically attached #606 Modified Underlayment and 3 piles of #608 Modified Fiberglass Base Sheet adhered with #902 or #903 Cold Adhesive. Membrane is surfaced with Asphalt Emulsion reinforced with Chopped Fiberglass and finished with Reflective Coating.

B. Jobsite Safety: Execute all operations and provide a safe work environment in accordance to OSHA standards and regulations. This requirement applies to all contractor personnel, associated subcontractors, workers in other trades, and jobsite visitors.

1. Follow all industry fire prevention guidelines for storage of materials, staging areas, roof access, and application means and methods.

2. Any applicable local fire codes supersede industry guidelines.

1.5 SUBMITTALS

A. Fire Hazard Classification - Provide letter certifying that roof membrane assembly qualifies for UL Class A fire hazard classification for the type of substrate(s), slope(s), insulation(s) (when applicable) and membrane(s) specified for this installation. Include copy of the UL listing.

B. Applicator approval - Provide letter from manufacturer of roofing materials stating that applicator is acceptable to manufacturer.

C. Complete materials list of all items to be furnished and installed under this Section.

D. Copy of latest edition of the Roofing System Manufacturer’s material specifications and installation instructions.
E. Two (2) 3” x 5” samples of roof membrane mock-up and flashing membrane.

F. Copy of Manufacturers Warranty.

1.6 QUALIFICATIONS

A. Manufacturer Qualifications:

1. Manufacturer shall be a member in good standing with the Southern California Roofing Contractors Association, Western States Roofing Contractors Association, National Roofing Contractors Association, Construction Specifications Institute, and California Association of School Business Officials.

2. Manufacturer must furnish as single source all primary roofing materials with manufacturer’s labels and have current listing in Underwriters Laboratory Directory. Materials must bear UL Classification marking on bundle, package or container indicating that materials have been produced under UL’s Classification and Follow-up Service.

3. Manufacturer must provide list of 10 projects of equal size and difficulty within a 25 mile radius of the project site.

4. Manufacturer shall employ a full-time field inspector available for periodic inspections (not less than twice weekly) and final inspections. Inspection reports to be available to the Owner Representative on request.

5. Manufacturer must employ a Registered Roof Consultant and Registered Roof Observer certified by the Roof Consultants Institute.

B. Contractor Qualifications

1. Contractor must provide list of 3 projects of equal size and difficulty within a 50 mile radius using the specified roof system.

2. Contractor must provide a supervisor that can communicate with Manufacturer’s Inspector and Owner Representative.

3. Contractor must provide knowledgeable foreman who understands all aspects of the specification.
1.7 QUALITY ASSURANCE

A. Pre-Job Conference

1. Prior to the beginning of work, a pre-job conference shall be held at the job site.

2. Provide seven calendar days advance written notice ensuring the attendance by competent authorized representatives of the Henry Certified Contractor (HCC), a Henry Company representative, building owner, architect, consultant, and subcontractors including mechanical and electrical where such work penetrates the work of this Section.

3. During the pre-job conference, attendees shall review the specifications to determine any potential problems, changes, etc. Scheduling, weather conditions, unique job site conditions, installation requirements and procedures and any other information pertinent to the roof system installation shall be discussed.

4. The results of the conference shall be recorded with copies submitted to all participants

B. Notify Henry Company Inspector 48 hours prior to job start, schedule changes and prior to application of surfacing and reflective coat.

C. A copy of the specification is to be on the job site.

1.8 DELIVERY, STORAGE, AND HANDLING

A. Deliver roofing materials to Project site in original containers with seals unbroken and labeled with manufacturer's name, product brand name and type, date of manufacture, and directions for storing and mixing with other components.

B. Store liquid materials in their original undamaged containers in a clean, dry, protected location and within the temperature range required by roofing system manufacturer. Protect stored liquid material from direct sunlight.

C. Protect roof insulation materials from physical damage and from deterioration by sunlight, moisture, soiling, and other sources. Store in a dry location. Comply with insulation manufacturer's written instructions for handling, storing, and protecting during installation.

D. Handle and store roofing materials and place equipment in a manner to avoid permanent deflection of deck.
1.9 JOB CONDITIONS

A. Protection Requirements.

1. Protect building and grounds from overspray, staining and mechanical damage. Plank lawns, walks, etc. in traffic areas.

2. Applicator will be held responsible for any damage caused to roof top equipment, roof penetrations, clogged drains (if not identified prior to starting the work) and damage to building and grounds resulting from the execution of his work.

3. Lock valves on tankers when not attended.

4. Cover or arrange air intakes to be turned off during application of solvent-based materials.

B. Environmental Requirements.

1. Do not apply material during precipitation or when rain is a probability during or after application before material can set.

2. Never apply solvent-based adhesives or coatings to a wet surface.

3. Never apply water-based emulsions when the ambient temperature is below 50°F or will fall below 40°F before the emulsion has cured to a tack-free black surface. High humidity, fog and dew will greatly extend the time for emulsions to cure.

4. Protect adjacent surfaces from staining and mechanical damage during application of roofing.

1.10 WARRANTY

A. CONTRACTOR WARRANTY

1. Prior to acceptance of the roofing work, furnish certified written warranty signed by Roofing Contractor agreeing to make repairs and replacements required to maintain roof, including flashing, in watertight condition for two years from date of substantial completion.

2. Make repairs or replacements at no additional cost to Owner.

3. Warranty shall include temporary repair work under emergency condition as required to maintain water tightness of the building pending permanent repairs.
B. MANUFACTURER’S WARRANTY

1. Furnish Manufacturer’s 10 + 10 -year Warranty for material and workmanship. There is to be no additional warranty or inspection fees for the 10-year extension.

2. Manufacturer to make inspection in the 2nd and 10th year of the warranty period.

1.11 MAINTENANCE

A. Furnish Owner with annual maintenance requirements to maintain contractor and manufacturer’s warranties.

PART 2 - PRODUCTS

2.1 ACCEPTABLE MANUFACTURERS

A. Materials manufactured or supplied by Henry Company, Huntington Park, CA 90255; tel: 323-583-5000.

2.2 PRODUCT DELIVERY

A. Bulk delivery material shall be accompanied by a Henry Company bill of lading.

2.3 MATERIALS

A. General: Refer to Project Scope of Work for applicable product references.

B. Sheathing paper - 1 ply

C. Base ply

1. #606 Modified Underlayment, Inverted

D. Interply

1. #608 SBS 30# Modified Fiberglass Ply Sheet

E. Interply Adhesive – 2 gallons/ sq/ply:

1. #902 Permanent Bond Adhesive – low odor, modified and rubberized cold adhesive
F. Surfacing (9 gallons w/ 3lbs glass/square)
   1. #107 asphalt emulsion – ASTM D 1227-95 Type III, Class I
   2. #189 chopped fiberglass

G. Surfacing
   1. #197 asphalt emulsion
   2. Granules (#40)

H. Reflective Surfacing

I. Miscellaneous Products
   1. Primer #103 VOC Compliant Primer.
   2. #906 Plastic Cement
   3. #600 Ruftac – 75 mil - SBS modified self-adhesive membrane
   4. #209 ElastoMastic
   5. #183 Reinforcing Glass – Yellow
   6. #196 Polyester Fabric
   7. #107 Asphalt Emulsion.
   8. #109 Liquid Roof - Neoprene Modified Emulsion
   9. #176 Pond Patch
   10. Walk pads
   11. Approved mechanical fasteners
   12. Wolmanized wood nailers
   13. Replacement metal to be 24 gauge galvanized sheet metal.
      a. Metal edging to have maximum ¼” rise.
      b. All flanges to be 4 inches with full corners
      c. Pitch pans to have soldered joints.
14. Lead Flashings to be minimum 4 #. – factory or field soldered
15. Josam or Smith drains and overflows
16. ChemCurb pitch pockets (approved in lieu of galvanized pitch pockets)
17. Four inch cant strips ASTM C-208

PART 3 - APPLICATION

3.1 EXAMINE 3.1 GENERAL

A. Henry Company’s General Requirements and Product Data are a part of this specification.
B. Do not tear-off or remove any more roofing than can be replaced the same day.
C. Unless sheet metal components are specified for replacement carefully remove, clean, prime and set aside for reinstallation. Carefully turn up counter flashing.

3.2 EXAMINE SUBSTRATES, AREAS, AND CONDITIONS,

A. Inspect deck: Installer present, for compliance with the following requirements and other conditions affecting performance of roofing system:

1. Verify that roof openings and penetrations are in place and set and braced and that roof drains are securely clamped in place.

2. Blocking, curbs, and nailers are required at edges of roof penetrations, area dividers, and terminations.

3. Verify that wood cants, blocking, curbs, and nailers are securely anchored to roof deck at penetrations and terminations and that nailers match thicknesses of insulation.

4. Verify that deck is securely fastened with no projecting fasteners and with no adjacent units in excess of 1/16 inch out of plane relative to adjoining deck.

B. Proceed with installation only after unsatisfactory conditions have been corrected.
3.3 PREPARATION

A. Sweep or vacuum all surfaces prior to commencement of roofing. Allow surface to dry before proceeding.

B. Cut ply sheets into 18 foot lengths. Allow plies to flatten before application.

C. All surfaces shall be well-secured, firm, smooth and free from rough spots and sharp projections before roof application begins.

D. Test interior drains to confirm that they flow freely. Immediately notify Owner’s Representative if correction is required. Protect drains from plugs of gravel and debris.

E. If not scheduled for new metal, carefully lift or remove metal counterflashimg, coping, and gravel stop. Clean metal and set aside for reinstallation.

3.4 GENERAL REQUIREMENTS

A. Install roofing in accordance with roofing system manufacturer’s instruction, scope of work for the site and these requirements.

B. Valleys and waterways. Install extra layer of the specified glass base set in full width application of #902 High Solids Modified Bitumen Adhesive in valleys, drains and waterways.

C. Prime metal flanges (all jacks, edge metal, etc.); concrete and masonry surfaces with a uniform coating of asphalt primer.

D. Thinning or alterations of adhesives, primer, emulsion, reflective coat and sealant is not permitted.

E. Clean all drains and remove clamp rings, dried mastic and any other loose material. Prime with asphalt primer and allow too dry. Install Ruftac in drains set in #209 Elastomastic. Replace broken or missing clamp rings, bolts or fasteners and drain bonnets with new. Complete drains the same day.


G. Lift all supports for conduits and other pipes. Install new wood blocks under conduit or pipes. Reinforce under block with one layer of 80# Cap Sheet cut 6” larger in all directions of block, granules side up, set in generous application of specified Elastomastic prior to Monolithic
surfacing. Seal top of bolts, screws, etc., with #209 ElastoMastic. Loosen brackets so pipes can expand and contract freely.

H. EQUIPMENT PADS. Install one layer of Ruftac over equipment pads before installing metal pans.

I. PIPE PENETRATIONS, ELECTRICAL JACKS, VENT PIPES EQUIPMENT STANDS

1. Set flange over base plies set in #209Elastomastic.

2. Seal with 6" strip of reinforcing fabric sealed solidly with Elastomastic. Cut a collar of base sheet to fit around vents and overlap the flanges 6" on sides. Set in application of Elastomastic.

3. Form a #209 Elastomastic cant around base of vents prior to the application of the Monolithic surfacing.

4. Ruftac is an acceptable alternative to I.2.

5. When specified in project's Scope of Work, install storm collars on all pipe penetrations and jacks.

J. 3-COURSING

1. Prime wall surface at least 3" above termination edge of the base flashing.

2. Over completed base flashing trowel a 5" wide layer of #209 Elastomastic 1/8" thick to completely cover nails and top edge of base flashing.

3. Embed a 4" wide strip of Yellow Glass Fabric and apply another 1/8" troweling of Elastomastic covering fabric completely. Bring to a featheredge and finish in a straight line.

4. If not covered by metal counterflashing cover with Monolithic Emulsion system.

K. CANT STRIPS. Install cant strip at all horizontal to vertical transitions. Nail or set in specified Elastomastic. Set to provide smooth transition without gaps. Miter corners. At scuppers bevel cant strip starting 8" back from outlet.

L. COPING JOINTS: Clean coping joints. Prime 3" on both sides of joint and seal joint with 6" minimum layer of Ruftac.

M. WATER CUT-OFF. At end of day's work, or when precipitation is imminent, install water cut-off at all open edges. Install alternating layers
of Elastomastic and roof felts. Construction is to withstand protracted periods of service. Remove cut-offs completely prior to the resumption of roofing.

N. Roll the membrane with a 75-lb. (34kg) (minimum) weighted roller within 30 minutes to 4 hours of application. Provide waterstops and seal all terminations at the end of each day.

O. WALKWAYS. Install walkways in 4’ sections allowing 2” spacing between sheets. Cut and trim pieces as required to fit conditions. Set walkway in spot applications of Plastic Cement.

3.5 Specification H4-IMC-MR (OVER CONCRETE OR OTHER NON-NAILABLE DECK – WITH INSULATION)

A. Underlayment or Buffer: Apply #606 inverted 80# SBS Underlayment granule side down with 2” (51mm) side laps and 4” (102mm) end laps. Apply the first sheet of underlayment with a 12” (305mm) width and the remaining sheets full width. Stagger end laps.

B. Adhere base ply with 9” diameter spot application of #902 High Solids Modified Bitumen Adhesive 18” on center staggered in two rows 12” apart. Seal side and end laps.

C. Base Sheets: Over the underlayment, apply three (3) layers of #608 30# SBS Base interply sheets set in a uniform application #902 High Solids Modified Bitumen Adhesive at a rate of 2 gallons per 100 sq.ft.

D. Starting at the low point, apply a 12” (457mm) wide piece, then over that, one 24” (610mm) wide, then over both, a full width piece. Install the remaining sheets full width overlapping preceding sheet 24-2/3”. Run plies to top of cant.

3.6 METAL EDGING

A. Extend top layer of base sheet over edge of roof approximately 1”.

B. Install metal flange over completed membrane but before application of surfacing. Set metal flange in trowel application of plastic cement. Nail 3” (76mm) o.c. staggered.

C. Over prepared surface install 12” wide Ruftac over metal flange and extending onto the field of the roof.

3.7 FLASHINGS

A. General Requirements

1. Prime concrete surfaces with specified primer and allow too dry.
2. Complete first ply of flashing daily to assure watertight installation.

3. Install Base Flashing to a maximum 24" in height

4. Ruftac may be used in lieu of modified Plus 180, but requires that surface be primed and allowed to dry.

5. Install flashings in two pieces when height exceeds 24". Overlap bottom layer 3”.

6. Reinforce and make watertight all angles with one layer of modified Plus 180 s/s to extend 2" above cant and 2" onto field. Coat substrate and back of sheet with 902 High Solids Modified Bitumen Adhesive at rate of 1 gallon per 100 sq.ft. per side. Allow to tack. May require approximately 30 minutes air time to be tacky. Press in place. Lap sides 3”.

7. Unless otherwise specified 3-course top edge with Plastic Cement and #183 Yellow Glass

B. Install Flashing Specification Number #180

1. Cut layer of modified Plus 180 s/s to extend not less than 4" (51mm) above cant strip. Coat back of cap ply and wall with #902 High Solids Modified Bitumen Adhesive at rate of ¾ gallon/100 sq.ft. (.3 l/m²) each side. Allow sheets to set until tacky. Press sheet in place. Lap ends 4" (102mm).

2. Nail top of completed base flashings 8" (204mm) o.c.

3. Provide counterflashing with minimum 4" (102mm) face installed in reglet or surface mount.

4. Apply compatible sealant.

C. Wall Flashings

1. Wood Walls. Nail #605 granule side out. Nail 12” on center in all directions and 6” on end laps. Extend wall flashing over base flashing 3”.

2. Concrete Walls. Unless otherwise specified, cover the inside and tops of concrete parapet walls with one layer of Ruftac. Extend membrane over base flashing 3” and to within 3” of outside wall. Rub in firmly by using a wallpaper roller bonding Ruftac without wrinkles or loose areas. Nail top edge through 1” tin disks 8” o.c.
3. Masonry Block Walls. Unless otherwise specified cover the inside and tops of masonry block walls with one layer of polyester embedded in 4 gallons of 107 Asphalt Emulsion. Side laps to be 3”. Extend over base flashing 3” and to within 3” of outside wall. Polyester to be fully embedded and without wrinkles.

3.8 SURFACING - Monolithic System

A. After the adhesive has thoroughly cured (no solvent odor is evident and laps cannot be pulled apart), but not less than five days, sweep or pressure blow dust and debris from the roof surface to provide a clean surface. Hose and/or scrub off with water any residue accumulation.

B. Protect adjacent walls not scheduled for emulsion and reflective coating. Protect equipment, roof top units, valves, switches, coils or moveable parts etc. not scheduled to receive Monolithic application from overspray. Mask off identification plates on equipment.

C. Clean gutters prior to surfacing.

D. Cover prepared surfaces with not less than 9 gallons (34l) per 100 sq.ft of undiluted #197 Asphalt Emulsion. Evenly blend emulsion with 3 lbs. (1.4kg) of ¾” (19mm) long chopped glass reinforcing sprayed with equipment approved by Henry Company. Tufting of the glass fibers is not acceptable. Spray emulsion in a direction opposing the laps of base sheet so that when system is dry, there are no voids or bridging of glass over any seam of the membrane. Finish to be 72 dry mils.

E. Unless otherwise specified, spray vents, ducts, and parapet walls. Spray parapet walls to within 1” of outside edge; above reglets and/or 5-course counterflashing.

F. Spray base flashings and other designated surfaces with the Monolithic System.

3.9 REFLECTIVE COATING:

A. As soon as emulsion surfacing has cured (tack-free and black), clean the surface of dust and debris. After five (5) days, hose roof surface and scrub out any pockets of residue.

B. Apply two (2) gallons of undiluted #197 Asphalt Emulsion per 100 sq. ft.

C. Broadcast granules into wet #197 Asphalt Emulsion.

D. Apply #294 Premium Elastomeric Base Coat at the rate of 1 ½ gallons per 100 sqft (.6l/m²) in one coat.

E. Apply #280 White Elastomeric Top Coating at the rate of 1 ½ gallons per 100 sq.ft.
F. Any areas that peel must be redone before the project will be considered complete.

G. In arid climates when rain is unlikely with 30 days of application of the reflective coat, hose roof surface 30 days after application.

3.10 CLEAN-UP

A. Test all drains to confirm they are free flowing and clear of debris.

B. Clean gutters and downspouts as needed of all debris.

C. Any deficiencies found during final inspection will be corrected within 5 working days and will be re-inspected by a Manufacturer’s Representative and Owner’s Representative.

D. Leave premises clean to complete satisfaction of the Owner.

END THIS SECTION
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<th>SAN BERNARDINO CITY UNIFIED SCHOOL DIST.</th>
<th>ADDENDUM NO.</th>
<th>APPN: 04-117658</th>
<th>Date: JAN 31, 2020</th>
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<td>02</td>
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<td>Scale: AS NOTED</td>
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<td>1250 NORTH MEDICAL CENTER DRIVE</td>
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<td>Dwg. Sheet No.: 1 / A-804</td>
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<tr>
<td>SAN BERNARDINO, CA 92411</td>
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<th>TYPICAL ROOF DETAIL</th>
<th>SKETCH DETAIL TITLE:</th>
<th>REVISED TYP ROOF DETAIL</th>
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**BUR ROOF**

**TYPICAL ROOFING DETAIL**

**SCALE:** 3"=1'-0"
SEE 7/S403

REMOVE AND REPLACE
(E) ROOFING AT EAVES WITH BUILT-UP
ROOFING AS REQUIRED AT ABATED
AREAS

8" MAX

2
A 803

1ST L2X2X3/4
HANGER

(N) METAL PANEL

REMOVE AND REPLACE PART OF
(E) SHEATHING AS REQ'D TO REPAIR
DRY ROT

(N) 16 GA. CONT. CLIP

(N) 16 GA. CONT. FRAMING ANGLE AT
PERFORATED METAL PANEL JOINTS,
ATTACH TO Z CLIPS W/ 16 GA. FRAMING ANGLES
AND 4-#10 SMS

(N) PERFORATED METAL

(N) STAINLESS STEEL BOLT, NUT AND WASHERS

EAVE SOFFIT DETAIL

SCALE: 1"=1'-0"

4
REF 2 & 4/A311

EAVE SOFFIT DETAIL

SAN BERNARDINO CITY UNIFIED SCHOOL DIST.

MARTIN LUTHER KING MIDDLE
SCHOOL MODERNIZATION
1250 NORTH MEDICAL CENTER DRIVE
SAN BERNARDINO, CA 92411

ARCHITECTS:
John Sergio Fisher & Associates Inc.
jsfa

ADDENDUM NO. 02
APPN: 04-117658
Date: JAN 31, 2020
Scale: AS NOTED

DRAWING TITLE:
EAVE SOFFIT DETAIL

Dwg. Sheet No. 4 / A-802

SKETCH DETAIL TITLE:
REV. EAVE SOFFIT DETAIL

Sketch No.: ADD SK-02.3