

P202-13610

ADDENDUM NUMBER 1

MARTIN LUTHER KING COMMUNITY CENTER
HVAC SYSTEM REPLACEMENT

Site #773, Bldg. #2110
1531 West Vliet Street
Milwaukee, WI 53205

Project Number: P202-13610
Notice Number: 6879

Date of Addendum: November 21, 2013

This Addendum to the Contract Documents is issued to modify, explain or correct the original documents, dated November 1, 2013, and is hereby made part of the Contract Documents. Acknowledge receipt of this Addendum in the space provided on the Bid Form, or bid may be rejected.

BIDDING DOCUMENTS

Document 00400 – Bid Form

REPLACE Bid Form Page 00400-3 with revised page 00400-3rev attached to issued as part of this addendum 1.

CONTRACT DOCUMENTS

Section 01230 – Alternatives

ADD the following to Article 1.1, Paragraph C:

10. Alternate 9: Provide deduct to the base bid to not perform the work associated with the removal and replacement of the existing emergency generator and transfer switch with new.

Section 07 51 00 – Built-Up Roof Patching

ADD section in its entirety.

Section 09 90 00 – Painting & Finishing

ADD section in its entirety.

Section 23 05 00 – Common Work Results for HVAC

ADD the following to 1.27: "H. Alternate Bid 9: Provide deduct to the base bid to not perform the work associated with the removal and replacement of the existing emergency generator and transfer switch with new."

Section 23 52 00 – Primary Heating Equipment

REVISE 2.01 P. to read: "Heat exchanger shall be manufactured of stainless steel or aluminum and suitable for condensing applications."

DRAWINGS

-MECHANICAL-

Sheet MD100 – Mechanical Lower Level Demolition Plan

REVISE Keyed Note #12 to read: "Prior to abatement of existing ceiling, this contractor shall measure height of existing ceiling and t-bar grid location."

00900-1

Sheet MD101 – Mechanical Ground Floor Demolition Plan

REVISE Keyed Note #11 to read: "Prior to abatement of existing ceiling, this contractor shall measure height of existing ceiling and t-bar grid location."

Sheet MD102 – Mechanical Roof Demolition Plan

REVISE General Note #1 reading: "Patch roof deck, insulation, membrane and ballast to match existing roof where existing opening is being abandoned."

Sheet M101 – Mechanical Ground Floor New Work Plan

REVISE note in Mechanical Room 248 to read: "See sheet M301 for new work in this area."

Sheet M100 – Mechanical Lower Level New Work Plan

ADD Keyed Note #5 reading: "Provide new lay in ceiling and grid. Match removed grid location and layout. Install light fixtures and other ceiling mounted devices into new grid and ceiling tiles."

ADD Keyed Note #5 in the following spaces: Queens Fitness 104, Kitchen 106, Office 107, Father's Resource 109, Office 135, and Office 146.

Sheet M101 – Mechanical Ground Floor New Work Plan

ADD Keyed Note #4 reading: "Provide new lay in ceiling and grid. Match removed grid location and layout. Install light fixtures and other ceiling mounted devices into new grid and ceiling tiles."

ADD Keyed Note #4 in the following spaces: Reception/Meeting 203, Office 204, Office 205, Office 206, Labotory 207, Toilet 208, Exam/First Aid 209, Corridor 210, Office 211, Office 212, Meeting Room 213, and Conference 252.

Sheet M102 – Mechanical Roof Plan

REVISE location of ACC-1 as shown on addendum sheet M-1.

REVISE location of fence around ACC-1 as shown on addendum sheet M-1.

REVISE fencing notes as shown on addendum sheet M-1.

REVISE location of roof hydrant as shown on addendum sheet M-1.

ADD General Note #1 reading: "Provide flashing, counter-flashing, and saddles for drainage at all roof curbs, pipe penetrations and fence posts."

Sheet M500 – Mechanical Details

REVISE Detail 8: Curb height shall read 24".

Sheet M501 – Mechanical Details

REVISE Detail 4: Curb height shall read 24".

ADD Detail 13, Pipe On Roof Support. See sheet M-2.

ADD Detail 14, Fence Post Roof Flashing Detail. See sheet M-3.

Sheet ME100 – Mechanical-Electrical Schedules

REMOVE note H2 from the Gas Fired Hot Water Boiler Schedule.

-STRUCTURAL-

Sheet S102 – Partial Roof Framing Plans

ADD General notes shown on S-1.

ADD Structural Steel and Welding notes shown on S-2.

ADD Steel Deck – Roof, Openings, and Hot-Dipped Galvanizing notes shown on S-3.

ADD Work by Others and Design Stresses notes shown on S-4.

ADD section cuts to plan, see S-5.

REVISE location of roof top unit framing, see S-5.

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REVISE beam sizes per S-5.

ADD details 4, see S-6.

ADD detail 5, see S-7.

ADD detail 6, see S-8.

ADD detail 8, see S-9.

End of Addendum No. 1

00900-3

ALTERNATIVE 6:

State addition to Total Base Bid to provide security bars in the throats of eight (8) intake and relief hoods, the sum of:

_____ (In words)

_____ Dollars \$ _____ (In figures)

ALTERNATIVE 7:

State addition to Total Base Bid to provide High Efficiency Chiller based on the Schedule on Drawings, the sum of:

_____ (In words)

_____ Dollars \$ _____ (In figures)

ALTERNATIVE 8:

State deduction from Total Base Bid to shut down the facility for 3 months and do all work during regular shift hours and in one phase, the sum of:

_____ (In words)

_____ Dollars \$ _____ (In figures)

ALTERNATIVE 9:

State deduction from Total Base Bid if existing Emergency Generator is not replaced, the sum of:

_____ (In words)

_____ Dollars \$ _____ (In figures)

SUBSTITUTION OF MATERIALS

For use by Bidders at their option the following substitutions from specifically named materials or items.

MANUFACTURER'S NAME	MATERIAL	ADD/DEDUCT
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____

ADDENDUM RECEIPT

We acknowledge the receipt of Addendum _____ to _____ inclusive.

Section 07 51 00 - Built-Up Roof Patching

PART 1 - GENERAL

1.01 DESCRIPTION

Work Included:

1. Labor and materials required to patch existing built-up roofing damaged as a result of mechanical equipment installation and demolition.

1.02 QUALITY ASSURANCE

- A. Standards:
ASTM D312 - Standard Specification for Asphalt for Use in Constructing Built-Up Roof Coverings.
- B. Use adequate numbers of skilled workers who are thoroughly trained and experienced in the necessary crafts and who are completely familiar with the specified requirements and methods needed for proper performance of the work of this Section.

1.03 SUBMITTALS

Submit brand names and manufacturer's names for each product intended to be used.

1.04 PRODUCT DELIVERY, STORAGE AND HANDLING

- A. Materials shall be delivered to job in sealed original containers bearing the manufacturer's name and brand and shall be used without adulteration.
- B. Storage:
Store roofing materials in a dry area. Store roll goods on end and protect from sun and weather. Cover with waterproof covering.

PART 2 - PRODUCTS

2.01 MATERIALS

- A. All materials used for patching must be furnished or approved by roofing system manufacturer. Consult with Owner regarding system manufacturer and to confirm roof construction. Repair shall be made by a manufacturer approved roofer as required to maintain roof warranty.
- B. Felts:
12 lb. asphalt saturated fiberglass felt meeting or exceeding requirements of ASTM D 2178, Type VI.
- C. Base Sheet:
Asphalt coated, non-porous, fiberglass base sheet for use in BUR system.
- D. Bitumen:
 1. Asphalt Primer: ASTM D41

2. Asphalt for Hot Application: Type II ASTM D312
 3. Steep Asphalt: ASTM D312, Type III.
 4. Asphalt identification shall correspond with that developed by the Roofing Systems Technical Committee. A joint committee of Asphalt Roofing Manufacturer's Association and National Roofing Contractors Association.
- E. Aggregate:
Gravel or slag, free from clay, loam, sand, dirt and water ranging in size from 1/4" to 5/8" and meeting requirements of ASTM D-1863-83. Aggregate shall match existing aggregate.
- F. Base Flashing and Flashing Cement as furnished by roofing system manufacturer.
- G. Insulation:
1. Polyisocyanurate Insulation:
Closed cell, zero-ODP polyiso roof board insulation consisting of polyisocyanurate foam core integrally laminated to fiber-glass reinforced felt facers with compressive strength of 20 pounds per square inch, nominal. Zero-ODP polyiso insulation shall have a Long Term Thermal Resistance(LTTR) Value of 6.0 per inch. Provide tapered insulation where required.
Provide products that comply with the following:
 - a. ASTM C1289-01 Type II, Class 1, Grade 2.
 - b. Factory Mutual (FM) approvals specified.
 - c. Underwriters Laboratories Inc. (UL) classifications specified.
 - d. International Building Code.
 - e. Canadian Compliance: CAN/ULC, CGSB, and CCMC.
 - f. Montreal Protocol requirements to eliminate HCFC 141b from production by January 1, 2003
 2. Match existing insulation thickness.
- H. Roof Substrate Board:
1. Perlite Board:
Incombustible, moisture resistant, asphalt impregnated, insulation board, formed of expanded perlite particles, mineral binders and fibers conforming to FSW HH-1-00529, as manufactured by:
 - Johns-Manville, "Fesco Board"
 - Celotex, "Celo-Therm"
 - GAF, "Gaftemp Permalite"
 2. ASTM C 1177/C 1177M, glass-mat, water-resistant gypsum substrate, 5/8 inch thick.
- I. Insulation Fasteners: as approved by roofing system manufacturer.

PART 3 - EXECUTION

3.01 INSPECTION

Where existing roofing is to be patched and existing insulation is found to be wet, remove wet insulation and replace with new insulation prior to roof membrane application. Do not patch roof over wet insulation.

3.02 APPLICATION

- A. If roof is under warranty, application shall be by a Roofing Contractor approved by manufacturer of roofing materials, applied in strict accordance with manufacturer's specifications, as required to maintain roofing warranty.
- B. Application:
 - 1. Apply hot asphalt within 25 degrees of the asphalt's EVT just before the felt.
 - 2. Lay felts in shingle fashion and roll into asphalt. Do not "flop in". Roll felts closely behind mop. Squeegee fibrous glass felts into the asphalt
 - 3. Apply bitumen at a rate of 23 lbs. per 100 sq.ft. Install each felt so that it is firmly and uniformly set.
 - 4. Lay felts free of wrinkles and buckles and so that pronounced ridges are not formed at the laps.
 - 5. After areas have been patched, flood the surface of patch with asphalt at an approximate rate of 60 lbs. per square and, while asphalt is still hot, embed gravel at the rate of approximately 400 lbs. per square or an acceptable slag at a rate of approximately 300 lbs. per square.

3.03 CLEANING

During progress of work and at completion of work, remove from the site all rubbish, debris, dirt, equipment and unused materials generated from roofing work and clean all adjoining surfaces which have been soiled with roofing materials. Use extreme care during roofing operations to avoid staining of wall facing. In raising hot pitch or asphalt alongside finished wall surfaces, protect adjoining walls to prevent possibility of splashing or damage. Remove bitumen from exposed masonry surfaces.

* * *

Section 09 90 00 - Painting and Finishing

PART 1 - GENERAL

1.01 DESCRIPTION

- A. Work Included:
1. Labor and materials required to complete painting work.
 2. Complete painting and finishing of exposed surfaces of concrete block, metal frames and other surfaces where alterations occur.
 3. Furnish tools, ladders, scaffolding and other equipment necessary for completion of work.

1.02 QUALITY ASSURANCE

- A. Use adequate numbers of skilled workers who are thoroughly trained and experienced in the necessary crafts and who are completely familiar with the specified requirements and methods needed for proper performance of the work of this Section.
- B. Volatile Organic Compound content of materials shall be compliant with requirements of the governmental agency having jurisdiction.
- C. Painting materials shall have identifying labels.

1.03 SUBMITTALS

- A. Prior to beginning work, submit to Architect for approval four (4) 8" x 10" color finish samples clearly identified with paint and code from Color and Material Schedule.
1. Revise and resubmit each sample, as requested, until the required gloss, color and texture is achieved. Such samples, when approved, will become standards of color and finish for accepting or rejecting the work of this Section.
 2. Architect's stamp of approval will be needed before work proceeds.

1.04 PRODUCT DELIVERY, STORAGE AND HANDLING

Storage: A space will be designated for storage of paint materials and tools. Protect storage space floor from damage. Keep paints covered at all times.

1.05 JOB CONDITIONS

- A. Temperatures:
Interior: Do not apply paint or varnish when temperature is below 60 degrees F. or when satisfactory results cannot be obtained due to high humidity or excessive temperatures.

1.06 GUARANTEE

- A. Work and materials in this section shall be guaranteed to be free from defects for a period of one (1) year from date of final completion of project.
- B. Any defects, not due to or caused by faulty construction or materials furnished or performed by other crafts, but due to defective materials and workmanship in painting and finishing, shall be repaired and corrected by Painting Contractor without cost to Owner.

PART 2 - PRODUCTS**2.01 FINISH PRODUCTS**

- A. Architect Approved Materials: Following manufacturer's materials
- B. Block Filler:
 - 1. Pratt and Lambert, "Primafil 200".
 - 2. Glidden, "GP 3010" Concrete Coatings Block Filler.
 - 3. PPG, "Speedhide, #6-7 Latex Block Filler"
 - 4. Sherwin Williams, "PrepRite B25W25 Block Filler"
 - 5. Benjamin Moore, "#285 Latex Block Filler"
 - 6. Hallman/Lindsay, #184 "Block Kote Latex Interior Block Filler".
 - 7. Diamond Vogel, #BF-1515, "Dia Pro Block Filler"
- C. Latex Satin Enamel Paint:
 - 1. Pratt and Lambert, "Accolade Interior Satin Enamel Z/F4700 Series.
 - 2. Pittsburgh, "Speed Hide" 6-3511 series Interior Satin Acrylic Latex"
 - 3. ProMar 200 Zero VOC Interior Latex Semi-Gloss, B31 Series.
 - 4. Diamond Vogel, "Permacryl Interior Satin Latex Enamel DS Series"
 - 5. Benjamin Moore, "Regal Select" Pearl (550)
 - 6. Hallman/Lindsay, #285, "Lustre Kote Satin" 100% Acrylic Interior Wall Paint.
 - 7. Diamond Vogel, #DS-1530, "DS Series Permacryl Interior Satin Latex Enamel"
 - 8. Behr, #7000 series Interior Satin Enamel
 - 9. Glidden Professional - Ultra Hide 150 Low -Lustre 1433
- D. Latex Semi-Gloss Enamel Paint:
 - 1. Benjamin Moore, #224, "Eco Spec Interior Latex Semi-Gloss Enamel
 - 2. Pratt and Lambert, "Pro-Hide Gold Interior Latex Semi-Gloss", "Z8300 Series"
 - 3. Glidden Professional Ultra Hide 150 (No VOC) 1415 Semi-Gloss
 - 4. PPG Pittsburgh, "Speedhide Interior Semi-Gloss Latex 6-500 Series"
 - 5. Sherwin Williams, "ProMar 200 Zero VOC Semi-Gloss, B31 Series"
 - 6. Hallman/Lindsay, "#295", "Signature Series Wonder Kote" Latex Semi-Gloss Enamel.
 - 7. Diamond Vogel, #DS-1570, "DS Series Pro Plus Interior Semi-Gloss Latex".
 - 8. Behr, #3000 series Interior Semi-Gloss Enamel

PART 3 - EXECUTION

3.01 INSPECTION OF SURFACES

- A. Before starting work, inspect surfaces to be painted or decorated and report to General Contractor any conditions which will adversely affect application or performance of paint and finish systems. Do not start work until such conditions have been corrected.
- B. Commencing of work by Contractor indicates acceptance of surfaces.

3.02 PREPARATION OF SURFACES

- A. All spaces shall be broom clean prior to starting and surfaces to be painted shall be dry.
- B. Before painting, remove dust, dirt, plaster, grease and other extraneous matter which would affect finish work.
- C. Clean dirty or greasy metal surfaces before applying materials. Remove rust and scale and clean surfaces before painting.

3.03 PREPARATION OF EXISTING SURFACES

Wash surfaces and rinse. Remove soil and grease. Remove loose, blistered or otherwise defective paint.

3.04 MATERIALS PREPARATION

- A. General:
 - 1. Mix and prepare paint materials in strict accordance with the manufacturer's recommendations.
 - 2. When materials are not in use, store in tightly covered containers.
 - 3. Maintain containers used in storage, mixing and application of paint in a clean condition, free from foreign materials and residue.

3.05 PROTECTION

- A. Protect work of other trades against damage or injury of materials, tools or utensils used.
- B. Mask, cover and protect adjacent surfaces against spatter and overspray.

3.06 APPLICATION

- A. Work shall be done by skilled mechanics in a manner applied so as to be free from sags, runs, crawls or other defects.
- B. When materials are brush applied, apply evenly with clean brushes, best suited for the type of material being applied. When using a roller, use type of cover best suited for materials used and surface texture.
- C. Thoroughly mix paints, especially heavily pigmented paints, before application and at regular intervals during application to ensure uniform distribution of pigment throughout application and consistent appearance and performance of finished surfaces.
- D. Before applying succeeding coats, make sure primers and undercoats are dry and performing the function for which they are intended.
- F. Hardware: Remove hardware prior to finishing metal door frames. Replace on completion.
- G. Fixtures, Covers, Grilles: Remove grilles and other finish covers prior to painting. Replace on completion.

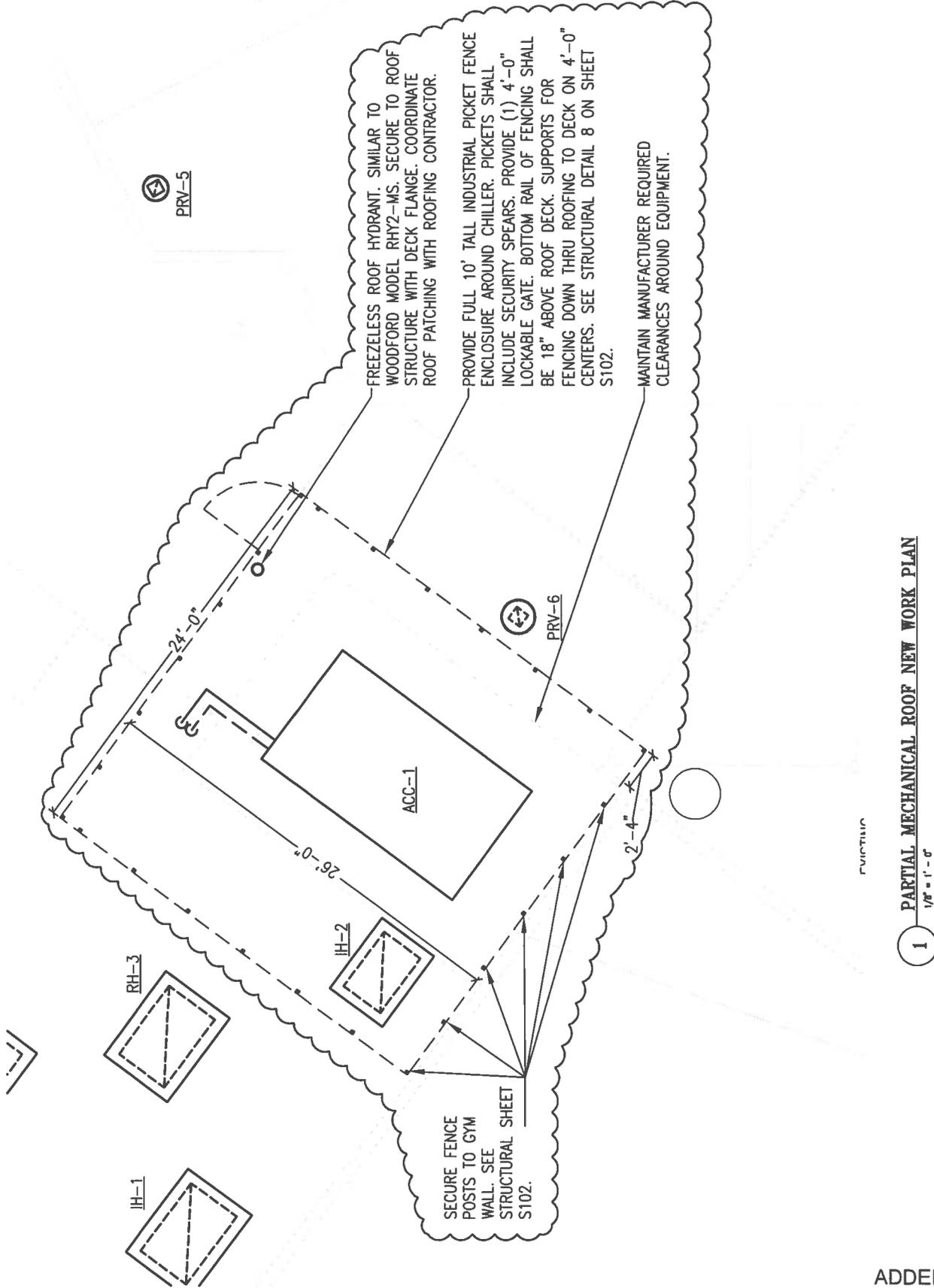
3.07 SURFACES TO BE PAINTED AND TYPES OF FINISHES

- A. Verify with Architect all stopping and starting points for colors and finishes before work proceeds and paints are ordered.
- B. Field finish all metals, including grilles, louvers and vents to match wall color or ceiling color on which they occur, unless otherwise noted.
- C. "Exposed surfaces" means areas visible when all permanent fixtures are in place in rooms or areas scheduled to be painted.
- D. Interior Surfaces:
 - 1. New Interior Concrete Block:
 - a. One (1) coat primer/filler
 - b. Two (2) coats latex satin enamel paint.
 - 2. Existing Interior Concrete Block:
 - a. Two (2) coats latex satin enamel paint.
 - 3. Metal Frames:
 - a. Two (2) coats latex semi-gloss enamel paint.
 - 4. Exposed insulated and bare metal ductwork in rooms and areas scheduled to be painted:
 - a. Two (2) coats of paint corresponding to adjacent wall surfaces.
 - b. Unfinished, insulated ductwork to receive one (1) additional coat of sealer prior to application of finish coats.
 - 5. Piping: Exposed insulated and bare heating, plumbing and other mechanical piping of all types, including copper in finished and unfinished areas of building.
 - a. Two (2) coats of paint corresponding to adjacent wall surfaces, or as directed.
 - b. Unfinished insulated piping to receive one (1) additional coat of sealer prior to application of finish coats.

3.08 CLEANING

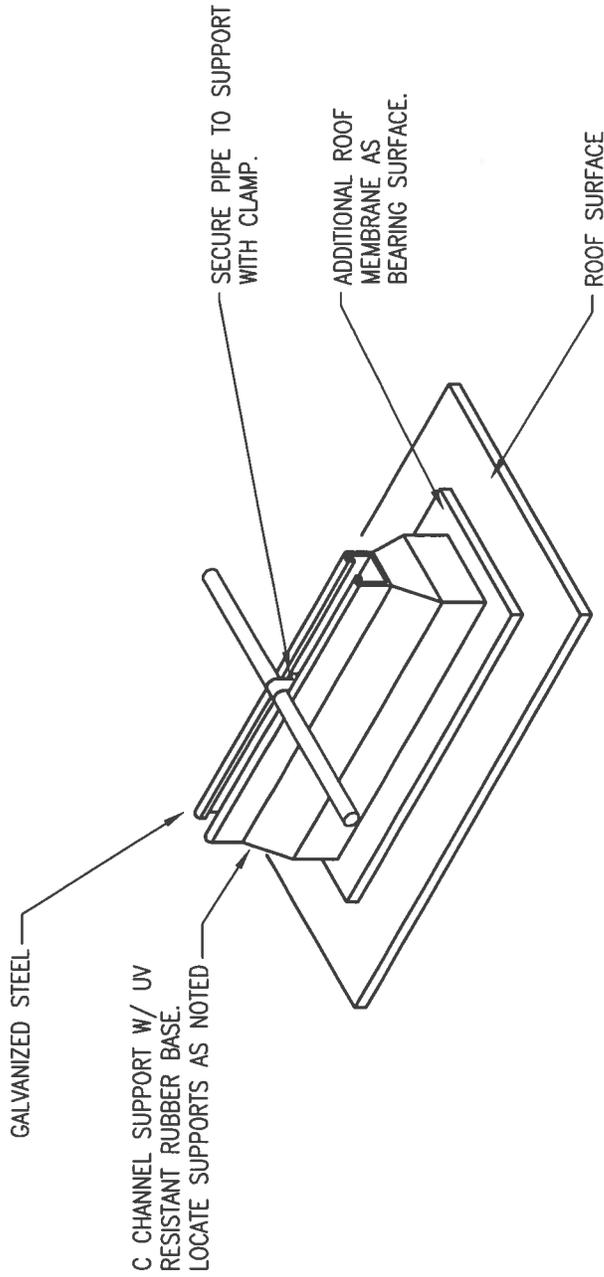
- A. At close of each working day, collect all wiping rags and waste materials and remove from building.
- B. Upon completion of work, remove all staging scaffolding and containers from site.
- C. Remove all paint where spilled, splashed or spattered.

* * *



1 PARTIAL MECHANICAL ROOF NEW WORK PLAN
1/8" = 1'-0"





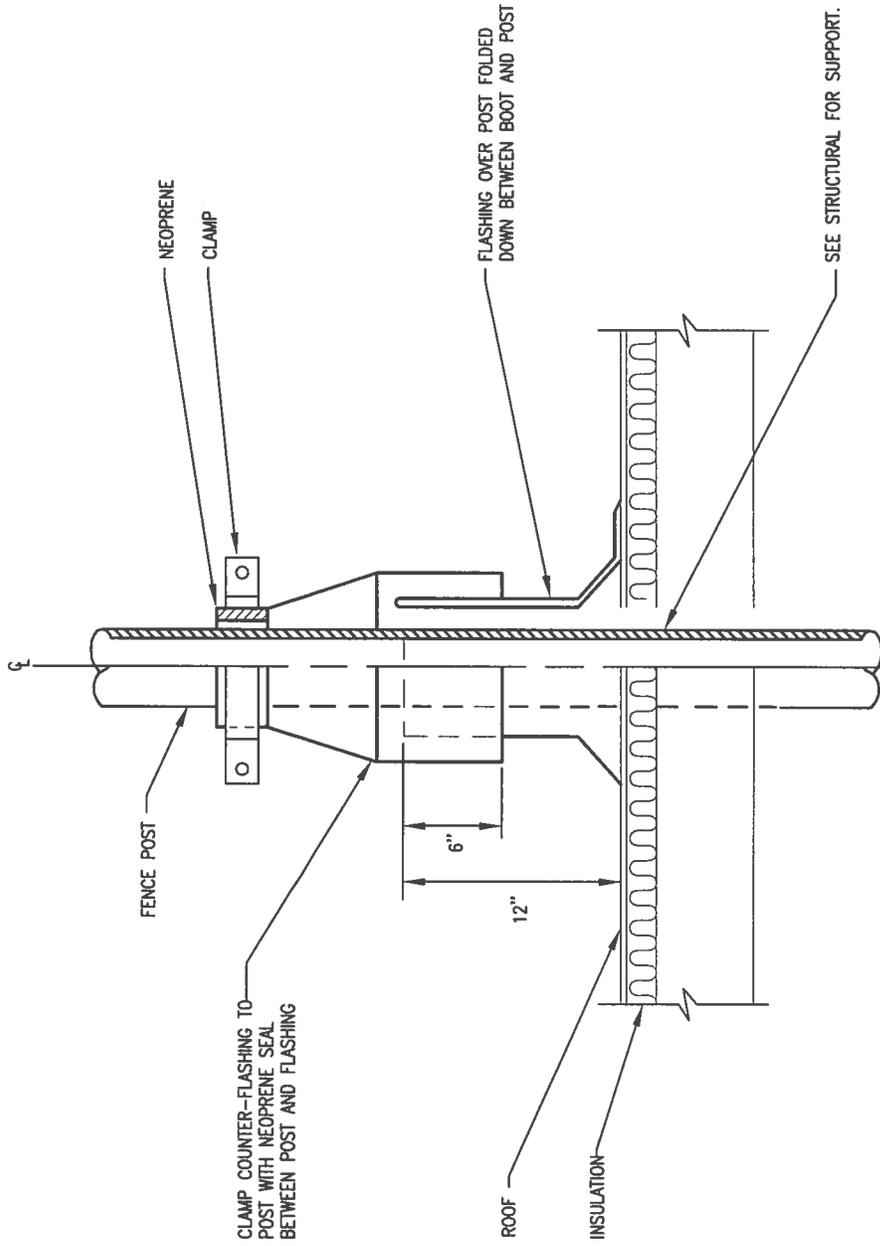
NOTE:
 LOCATE BLOCKS ON 5'-0" CENTERS ON 1" AND SMALLER
 AND 8'-0" CENTERS ON ALL PIPE 1 1/4" AND LARGER
 AND AT ALL CHANGES IN DIRECTION.

PIPE ON ROOF SUPPORT

13
 NO SCALE

ADDENDUM 01





FENCE POST ROOF FLASHING DETAIL

14 NO SCALE

ADDENDUM 01



GENERAL:

THE FOLLOWING NOTES SHALL APPLY TO ALL CONTRACTORS, SUBCONTRACTORS, AND SUPPLIERS ENGAGED IN EXECUTION OF THE WORK SHOWN ON THESE PLANS.

ALL CONSTRUCTION SHALL BE EXECUTED IN CONFORMANCE WITH THE FOLLOWING:

- PLANS AND SPECIFICATIONS
- ALL LOCAL BUILDING AND SAFETY CODES
- STATE OF WISCONSIN BUILDING CODE AND IBC 2009
- WHEREVER CONFLICTS EXIST, THE MORE STRINGENT OR COSTLY SHALL APPLY.

CONTRACTOR TO CROSS CHECK AND COORDINATE WITH HVAC, AND ELECTRICAL PLANS FOR OTHER DETAILS, DIMENSIONS, ELEVATIONS, OPENINGS, INSERTS, STEEL, ETC. ENGINEER TO BE NOTIFIED OF ANY VARIANCE BEFORE CONTRACTOR BEGINS WORK. RESOLVE APPARENT DEFICIENCIES, OMISSIONS, CONTRADICTIONS, INCONSISTENCIES AND AMBIGUITIES IN CONTRACT DOCUMENTS WITH ARCHITECT/ENGINEER DURING THE BID PERIOD. IF ANY SUCH CONDITION CANNOT BE RESOLVED DURING THE BID PERIOD, SUBMIT BID USING THE INTERPRETATION RESULTING IN THE GREATEST COST AND RESOLVE SUCH ITEMS PRIOR TO BEGINNING THE WORK.

IN NO CASE SHALL STRUCTURAL REPAIRS, CORRECTIONS, ALTERATIONS OR WORK AFFECTING A STRUCTURAL MEMBER BE MADE, UNLESS APPROVED BY ENGINEER. SUBMIT DETAILS AND CALCULATIONS PREPARED BY A PROFESSIONAL ENGINEER AND EMPLOYED BY CONTRACTOR. A/E DESIGN AND/OR REVIEW IS CONTRACTOR'S EXPENSE.

THE STRUCTURE SHOWN IN THESE DRAWINGS IS STRUCTURALLY SOUND ONLY IN THE COMPLETED FORM. IT IS THE CONTRACTOR'S SOLE RESPONSIBILITY TO DETERMINE ERECTION PROCEDURE AND SEQUENCE TO INSURE THE SAFETY OF THE BUILDING AND ITS COMPONENT PARTS DURING ERECTION. THIS INCLUDES BUT IS NOT LIMITED TO, THE ADDITION OF WHATEVER TEMPORARY BRACING, GUYS OR TIE-DOWNS AS MAY BE NECESSARY. ALL CONSTRUCTION AND ERECTION TO CONFORM TO APPLICABLE SAFETY CODES AND REGULATIONS. WHERE TEMPORARY BRACING, GUYS OR TIE-DOWNS ARE ANCHORED TO STRUCTURE E.G.

SLAB-ON-GRADE, CONTRACTOR SHALL HIRE A BRACING DESIGNER/ENGINEER TO VERIFY, THROUGH CALCULATION, STRUCTURAL ADEQUACY FOR APPLIED LOADS, AND SHALL PROVIDE NECESSARY DESIGN AND DETAILS IF FOUND DEFICIENT.

WHERE DETAILS ARE CALLED FOR IN A CERTAIN PORTION OF THE BUILDING, THEY SHALL BE DUPLICATED IN SIMILAR PORTIONS OF THE BUILDING UNLESS SHOWN OTHERWISE.

SUBMIT DETAILED SHOP DRAWINGS TO ENGINEER FOR APPROVAL PRIOR TO FABRICATION AND/OR CONSTRUCTION

PRIOR TO CONSTRUCTION AND SHOP DRAWINGS, CONTRACTOR SHALL SURVEY AND VERIFY EXISTING BUILDING DIMENSIONS, ELEVATIONS, ORIENTATION AND CONDITIONS AND REPORT ANY NON-CONFORMANCE WITH DESIGN DRAWINGS. ACTUAL SURVEY LOCATION OF EXISTING CONSTRUCTION SHALL BE COORDINATED WITH CONSTRUCTION DOCUMENTS. NOTIFY ARCHITECT OF ANY DISCREPANCIES BEFORE PROCEEDING.

PROVIDE SHOP DRAWINGS FOR REVIEW FOR STRUCTURAL STEEL, STEEL DECK, ETC.

THE ENGINEER'S REVIEW OF SHOP DRAWINGS, PRODUCT DATA, DESIGN CALCULATIONS, ETC. DOES NOT RELIEVE THE CONTRACTOR FROM COMPLYING WITH THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL INFORM THE ENGINEER IN WRITING OF ANY SPECIFIC DEVIATIONS TO THE CONTRACT DOCUMENTS AND OBTAIN ENGINEER'S WRITTEN APPROVAL BEFORE PROCEEDING.

A/E SERVICES RELATED TO SUBSTITUTIONS OR CHANGES PROPOSED BY THE CONTRACTOR ARE THE CONTRACTOR'S EXPENSE. DO NOT RELY ON ACCEPTANCE IN PREPARING BIDS. THE A/E MAY REJECT THESE WITHOUT CAUSE.

WORK AFFECTED BY OTHERS: FRAMING, BRACING, LOADS, OPENINGS, PENETRATIONS AND STRUCTURE IN ANY WAY RELATED TO OTHER TRADES INCLUDING HVAC, PLUMBING, OR ELECTRICAL REQUIREMENTS (IF SHOWN) IS FOR BIDDING PURPOSES ONLY. RESPONSIBILITY FOR COORDINATING THE WORK OF THIS SECTION WITH THESE REQUIREMENTS IS SOLELY THAT OF THE CONTRACTOR. CONTRACTOR'S REVIEW OF SHOP DRAWINGS WILL BE TAKEN TO INDICATE THAT THIS COORDINATION HAS BEEN ACCOMPLISHED.

ADDENDUM 01



STRUCTURAL STEEL:

FABRICATION AND ERECTION OF STRUCTURAL STEEL MEMBERS SHALL BE GOVERNED BY AISC CODE OF STANDARD PRACTICE (LATEST EDITION). ALL WELDERS TO BE CERTIFIED. ALL WELDING TO CONFORM TO AWS D1.1 LATEST EDITION USING E70-XX ELECTRODES.

STEEL CONTRACTOR TO PUNCH ALL HOLES FOR ARCHITECTURAL DETAILS.

PROVIDE AND MAINTAIN TEMPORARY BRACING OF STEEL UNTIL SECURELY INCORPORATED INTO CONSTRUCTION

WIDE FLANGE BEAMS 12" OR DEEPER SHALL HAVE A 1/4" STIFFENER PLATE EACH SIDE AT ALL POINTS OF SUPPORT INCLUDING BEARING ENDS ON CONCRETE OR MASONRY. PROVIDE 5/8" BEARING PLATES WITH (2) - 3/4" ANCHOR BOLTS 12" LONG WITH 3" HOOKS.

UNLESS NOTED OTHERWISE FRAME AROUND ALL ROOF DECK OPENINGS LARGER THAN 10" IN DIAMETER, INCLUDING ROOF DRAINS/SUMPS, WITH 4 - L'S 3 x 3 x 5/16 DOWNTURNED FOR 1 1/2" DECK OR LESS.

ALL STEEL BEAMS SHALL BE FABRICATED WITH THE NATURAL CAMBER (WITHIN THE MILL TOLERANCE) LOCATED ABOVE THE HORIZONTAL CENTERLINE BETWEEN THE END CONNECTIONS.

WELD TESTING: INSPECTION AND TESTING SHALL CONFORM TO AWS D.1. INSPECTOR SHALL BE AN AWS CERTIFIED WELDING INSPECTOR. PERFORM VISUAL INSPECTION OF ALL WELDS. ALL FULL PENETRATION WELDS TO BE 100% ULTRASONICALLY TESTED. REMAINDER OF WELDS TO BE 10% MAGNETIC PARTICLE TESTING. TESTING SHALL INCLUDE EXTERIOR CLADDING CONNECTIONS.

WELDING:

THE CONTRACTOR SHALL SELECT AND PAY FOR THE SERVICES OF AN INDEPENDENT TESTING LABORATORY TO INSPECT WELDED CONNECTIONS, INCLUDING PRECAST CONNECTIONS, PERFORM TESTS AND PREPARE TEST REPORTS.

INSPECT AND TEST STRUCTURAL STEEL AND PRECAST ASSEMBLIES AS FOLLOWS:

1. PERFORM VISUAL INSPECTION OF ALL WELDS.
2. ALL FULL PENETRATION WELDS: 100% ULTRASONIC TESTING (ASTM E-164).
3. FOR ALL HANGER TYPE TENSION CONNECTIONS: 100% MAGNETIC PARTICLE TESTING.
4. REMAINDER OF WELDS INCLUDING ALL FILLET WELDS: 10% MAGNETIC PARTICLE TESTING.

WELD INSPECTION SHALL CONFORM TO AWS D.1. CHAPTER 6 AND CHAPTER 8.

TESTING SHALL CONFORM TO AMERICAN WELDING SOCIETY AWS D.1 - LATEST EDITION. THE INSPECTOR SHALL BE AN AWS CERTIFIED WELDING INSPECTOR.

THE TESTING LABORATORY SHALL CONDUCT AND INTERPRET THE TESTS AND STATE IN EACH REPORT WHETHER THE TEST SPECIMENS COMPLY WITH AWS REQUIREMENTS AND SPECIFICALLY STATE ANY DEVIATIONS THEREFROM. RECORD TYPES AND LOCATIONS OF DEFECTS FOUND IN WORK. RECORD WORK REQUIRED AND PERFORMED TO CORRECT DEFICIENCIES. SUBMIT SIX (6) COPIES OF WELDING INSPECTION REPORTS AND TESTS TO THE ARCHITECT.

INSPECTOR SHALL VERIFY WELDERS ARE AWS CERTIFIED FOR THE TYPE OF WELD BEING PERFORMED.

THE TESTING AGENCY SHALL HAVE ACCESS TO PLACES WHERE STRUCTURAL STEEL WORK IS BEING FABRICATED OR PRODUCED SO THAT REQUIRED INSPECTION AND TESTING CAN BE ACCOMPLISHED.

TESTING AGENCY MAY INSPECT PRECAST MEMBERS OR STRUCTURAL STEEL AT PLANT BEFORE SHIPMENT. HOWEVER, STRUCTURAL ENGINEER RESERVES RIGHT AT ANY TIME BEFORE FINAL ACCEPTANCE, TO REJECT MATERIAL NOT COMPLYING WITH SPECIFIED REQUIREMENTS.

SUBCONTRACTOR'S RESPONSIBILITY:

1. FURNISH LABOR REQUIRED TO FACILITATE TESTING. INFORM THE TESTING LABORATORY AND THE STRUCTURAL ENGINEER WITH AT LEAST ONE DAY'S NOTICE WHEN WELDING WORK IS TO BE PERFORMED.
2. PROVIDE ACCESS TO FABRICATOR'S SHOP FOR TESTING.
3. PROVIDE ANY HOISTING OR HANDLING NECESSARY TO ACCOMPLISH TESTING WORK.
4. THE SUBCONTRACTOR IS RESPONSIBLE FOR THE EXPENSE OF TESTING OR INSPECTION RESULTING AS A CONSEQUENCE OF THE FOLLOWING: TESTING TO VERIFY THE ADEQUACY OF WORK DONE WITHOUT PRIOR NOTICE, IMPROPER SUPERVISION, OR CONTRARY TO CONTRACT DOCUMENTS OR STANDARD CONSTRUCTION PRACTICE.
5. CORRECT DEFICIENCIES IN STRUCTURAL STEEL WORK WHICH INSPECTORS AND LABORATORY TEST REPORTS HAVE INDICATED TO BE NOT IN COMPLIANCE WITH REQUIREMENTS. PERFORM ADDITIONAL TESTS, AT SUBCONTRACTOR'S EXPENSE, AS MAY BE NECESSARY TO SHOW COMPLIANCE OR CORRECTED WORK.

ADDENDUM 01



STEEL DECK – ROOF:

DECK, ACCESSORIES, AND ATTACHMENTS SHALL CONFORM TO "STEEL DECK INSTITUTE SPECIFICATIONS" (LATEST EDITION).

DECK TYPE: 1-1/2", 22 GAUGE WIDE RIB DECK (THREE SPAN MINIMUM).

DECK ATTACHMENT: WELD 12" ON CENTER MAXIMUM AT SUPPORTS IN A 36/5 PATTERN AND ONE INTERMEDIATE SCREWED SIDELAP CONNECTION BETWEEN SUPPORTS. ATTACH DECK 6" ON CENTER ALONG PERIMETER WALLS AND END LAPS. WELD SPLIT OR PARTIAL PANELS IN EVERY VALLEY. SHOP DRAWINGS SHALL SPECIFY TYPE OF ATTACHMENT AND FASTENER SIZES. DO NOT USE WELD WASHERS.

WELDS SHALL FOLLOW AWS D1.3 SPECIFICATIONS AND BE PERFORMED BY CERTIFIED WELDERS.

WELDS: 5/8" DIAMETER PUDDLE WELDS. SCREWS AT SIDELAPS: #10 TEK OR EQUIVALENT.

FOR OPENING LESS THAN 10" IN DIAMETER, PROVIDE A 22 GAUGE COVERPLATE, 6" x 24", EACH SIDE PERPENDICULAR TO DECK SPAN.

DO NOT SUSPEND POINT LOADS FROM ROOF DECK EXCEPT FOR HANGERS FOR SUSPENDED CEILINGS. SEE "WORK BY OTHERS".

THE NAME OF THE DECK FABRICATOR SHALL BE CLEARLY NOTED ON ALL SHOP DRAWING SUBMITTALS

PROVIDE COVER PLATES, VALLEY PLATES, RIDGE PLATES ETC. AS REQUIRED TO PROVIDE A COMPLETE INSTALLATION. THICKNESS AND FINISH SHALL MATCH DECK.

OPENINGS:

OPENINGS NOT SHOWN ON THE STRUCTURAL DRAWINGS ARE SUBJECT TO APPROVAL. CONTRACTOR IS RESPONSIBLE FOR THE COST OF RE-ROUTING SYSTEMS TO ACCEPTABLE OPENING LOCATIONS.

CONTRACTOR SHALL DEVELOP AND SUBMIT COORDINATION DRAWINGS SHOWING SIZE AND LOCATION OF ALL OPENINGS THROUGH STRUCTURAL ELEMENTS AT EACH BUILDING LEVEL PRIOR TO SUBMISSION OF SHOP DRAWINGS FOR THAT LEVEL. ALSO PROVIDE THIS INFORMATION TO PRECASTER WHEN PRECAST IS USED. DRAWINGS SHALL BE A COMPOSITE OF OPENING REQUIREMENTS OF ALL TRADES. FOR EACH OPENING, IDENTIFY THE TRADE(S) WITH ITEMS PASSING THROUGH. UNLESS NOTED, TRADES ARE RESPONSIBLE FOR MAINTAINING THE FIRE RATING THAT WOULD HAVE EXISTED WITHOUT THE OPENING.

FOR NEW OPENINGS IN EXISTING CONCRETE CONSTRUCTION. SECURE A/E APPROVAL PRIOR TO CUTTING.

DO NOT CUT BEYOND EDGES OR CORNERS OF NEW OPENINGS. DO NOT CUT DEEPER THAN REQUIRED. WHERE SAW CUTTING IS USED, DO NOT OVER RUN CORNERS – CHIP OUT CORNERS MANUALLY.

SEE CONCRETE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

ABANDONED OPENINGS IN WALLS, FLOOR OR ROOFS SHALL BE FILLED SOLID WITH LIKE MATERIAL, SUFFICIENT TO ACHIEVE REQUIRED FIRE RATINGS AND STRUCTURAL CAPACITY. PROVIDE INFILL DETAILS TO A/E FOR REVIEW.

HOT DIP GALVANIZING:

1. SCOPE: HOT DIP GALVANIZE AFTER FABRICATION ALL STRUCTURAL STEEL ITEMS AND THEIR CONNECTIONS
2. SURFACE PREPARATION: ALL STEEL TO BE HOT DIP GALVANIZED SHALL UNDERGO THE FOLLOWING SURFACE PREPARATION AS SPECIFIED BY THE STEEL STRUCTURES PAINTING COUNCIL (SSPC), VOLUME 2.
 - a. REMOVAL OF GREASE, OIL, GRIME AND ALL FOREIGN CONTAMINANTS BY THOROUGH CLEANING WITH AN ALKALINE OR ORGANIC SOLVENT FOLLOWED BY THOROUGH RINSING IN COLD WATER.
 - b. SCALE REMOVAL BY PICKLING IN DILUTED SULFURIC OF HYDROCHLORIC ACID. PICKLING SHALL BE FOLLOWED BY A RINSE IN WARM WATER AND A SECOND RINSE IN COLD WATER. AS AN ALTERNATIVE TO PICKLING, THE STEEL MAY BE WHITE METAL BLAST CLEANED ACCORDING TO SP5 OF THE SSPC SPECIFICATION.
 - c. DIPPING IN A FLUX SOLUTION OF ZINC AMMONIA CHLORIDE FOLLOWED BY DRYING AT ROOM TEMPERATURE.
3. ZINC COATING: THE ZINC COATING FOR STEEL SHAPES AND PLATES SHALL CONFORM TO ASTM A123, "STANDARD SPECIFICATION FOR ZINC (HOT-DIP GALVANIZED) COATINGS ON IRON AND STEEL PRODUCTS." MINIMUM GALVANIZING SHALL BE THE GREATER OF 3.9 MILS, OR THE WEIGHT OF ZINC COATING PER SQUARE FOOT OF SURFACE FOR 1/8 INCH AND 3/16" THICK STEELS SHALL AVERAGE NOT LESS THAN 2.0 OZ. WITH NO INDIVIDUAL THICKNESS LESS THAN 1.8 OZ.; FOR 1/4" THICK AND HEAVIER STEEL THE COATING WEIGHT SHALL AVERAGE NOT LESS THAN 2.3 OZ. WITH NO INDIVIDUAL THICKNESS LESS THAN 2.0 OZ.
4. WHERE FINISH TOP COAT IS REQUIRED, PREPARE GALVANIZED MEMBERS USING SSPC-SP7 CLEANING FOLLOWED BY SSPC-SP1 CLEANING WITH M-E-K SOLVENT.
5. PROVIDE VENT HOLES WHERE REQUIRED AND IN CONFORMANCE TO THE GUIDELINES OF ASTM A385.

ADDENDUM 01



WORK BY OTHERS

ALL SUPPORTS, FRAMING, SUB-FRAMING, MISCELLANEOUS STEEL FRAMING, METAL FABRICATIONS, BRACING, BRACKETS, HANGERS, CONNECTORS, FASTENERS, AND ATTACHMENTS NOT SHOWN ON THE STRUCTURAL DRAWINGS ARE THE CONTRACTOR'S RESPONSIBILITY AND SHALL BE ENGINEERED AND PROVIDED BY THE TRADE CONTRACTOR WITH ITEMS BEING SUPPORTED BRACED AT THE TRADE CONTRACTOR'S EXPENSE. COMPLY WITH THE GOVERNING BUILDING CODE. SUCH ITEMS ARE NOT PART OF THE STRUCTURAL CONTRACT DOCUMENTS.

CONSTRUCTION MEANS AND METHODS ARE THE CONTRACTORS RESPONSIBILITY AND SHALL BE ENGINEERED AND PROVIDED BY THE TRADE CONTRACTOR. SUCH WORK INCLUDES BUT IS NOT LIMITED TO:

- EVALUATION OF STRUCTURE FOR CONSTRUCTION EQUIPMENT LOADS SUCH AS FORKLIFTS, CONCRETE PLACING EQUIPMENT, ETC.
- EVALUATION OF STRUCTURE AND INSTALLATION OF ANY NECESSARY SHORING FOR MOVING LOADS DURING INSTALLATION OF HEAVY EQUIPMENT.

INSTALLER OF ANCHORS OR CONNECTIONS TO STRUCTURE IS RESPONSIBLE FOR ANCHOR DESIGN AND DETERMINATION OF STRUCTURAL COMPONENT ADEQUACY. DO NOT CUT REINFORCING BARS OR DAMAGE OTHER EMBEDMENTS.

MECHANICAL EQUIPMENT WEIGHTS SHOWN ON THE STRUCTURAL DRAWINGS ARE THE MAXIMUM OPERATING WEIGHTS INCLUDING CURBS AND ACCESSORIES. WHERE DIMENSIONS OR WEIGHTS OF EQUIPMENT OR SYSTEMS ARE VARIABLE FROM MANUFACTURER TO MANUFACTURER, VERIFY DIMENSIONS AND WEIGHTS SHOWN ON DRAWINGS WITH SELECTED MANUFACTURER PRIOR TO ORDERING MATERIALS AND SHOP DRAWINGS SUBMITTALS. NOTIFY STRUCTURAL ENGINEER WHEN ACTUAL TOTAL WEIGHTS EXCEED THE WEIGHT SHOWN ON CONTRACT DOCUMENTS. THE CONTRACTOR SHALL COORDINATE ALL MECHANICAL EQUIPMENT OPENINGS AND CURB SUPPORTS WITH THE STEEL FABRICATOR AND THE EQUIPMENT SUPPLIER, PRIOR TO THE SUBMISSION OF SHOP DRAWINGS.

UNLESS SPECIFICALLY NOTED ON THE CONTRACT DOCUMENTS, NO SUPPORT PROVISION HAVE BEEN MADE FOR MISCELLANEOUS MECHANICAL, ELECTRICAL, PLUMBING OR SPRINKLER PIPE LOADS WHICH INDUCE A COMBINED AVERAGE LOAD GREATER THAN 3 PSF ON ANY GIVEN STRUCTURAL FRAMING MEMBER. THE CONTRACTOR SHALL COORDINATE ALL MISCELLANEOUS LOADS WITH ALL TRADES AND NOTIFY THE ENGINEER IF LOADS ARE EXCEEDED, PRIOR TO INSTALLATION BEFORE SUCH PIPING IS PLACED.

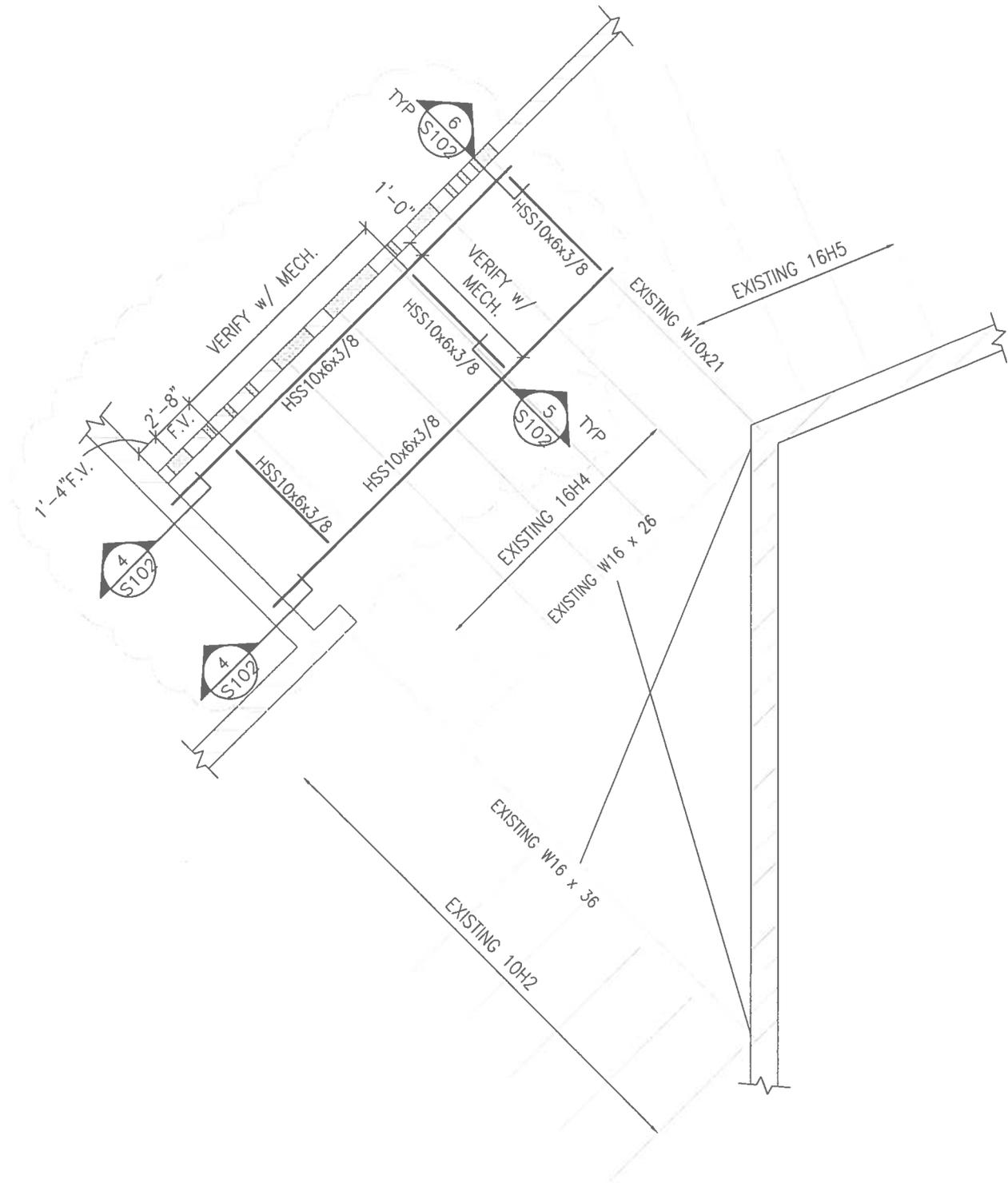
DO NOT SUSPEND POINT LOADS FROM METAL ROOF DECK. POINT LOADS INCLUDE, BUT ARE NOT LIMITED TO: PIPES, DUCTS, STEEL STUDS, EQUIPMENT, ETC. CONTRACTOR INSTALLING SUCH POINT LOADS SHALL PROVIDE SUB-FRAMING TO TRANSFER LOAD TO THE STRUCTURE SUPPORTING DECK.

DESIGN STRESSES:

MASONRY GROUT	$F'_c = 3,000 \text{ PSI}$
REINFORCING STEEL	$F_y = 60,000 \text{ PSI PER ASTM A615 GRADE 60.}$
STRUCTURAL STEEL	
W SHAPES	ASTM A572 GR 50 OR ASTM A992 GR50
S, M, OR HP	ASTM A572 GR 50
CHANNELS, ANGLES	ASTM A36, $F_y = 36000 \text{ psi, OR ASTM}$
AND PLATES	A572 GR50
TUBES, RECTANGULAR HSS	$F_y = 46,000 \text{ PSI PER ASTM A500 GRADE B.}$
ROUND HSS	$F_y = 42,000 \text{ PSI PER ASTM A500 GRADE B.}$
STEEL PIPE	$F_y = 35,000 \text{ PSI PER ASTM A53 GRADE B.}$
HANDRAILS	$F_y = 42,000 \text{ PSI PER ASTM A500 GRADE B.}$

ADDENDUM 01





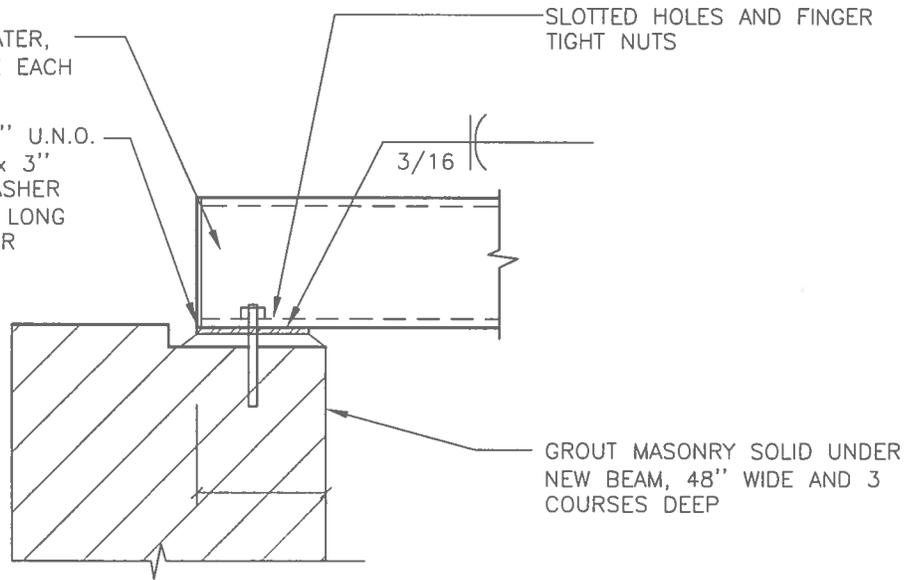
1 PARTIAL ROOF FRAMING PLAN

ADDENDUM 01



FOR 12" DEEP BEAMS OR GREATER,
PROVIDE 1/4" STIFFENER PLATE EACH
SIDE

BEARING PLATE 5/8" x 6" x 8" U.N.O.
w/ (2) - 3/4" DIA. x 1'-4" x 3"
ANCHOR BOLTS WITH NUT & WASHER
ON 3/4" GROUT. PROVIDE 3" LONG
SLOTTED HOLES IN BEAM, FINGER
TIGHTEN NUT.



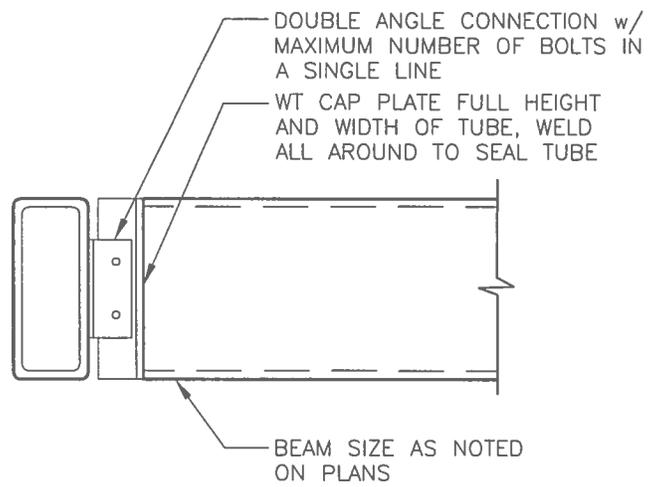
- BACKPATCH SOLID AT BEAM POCKET

4 STEEL BEARING ON MASONRY

ADDENDUM 01



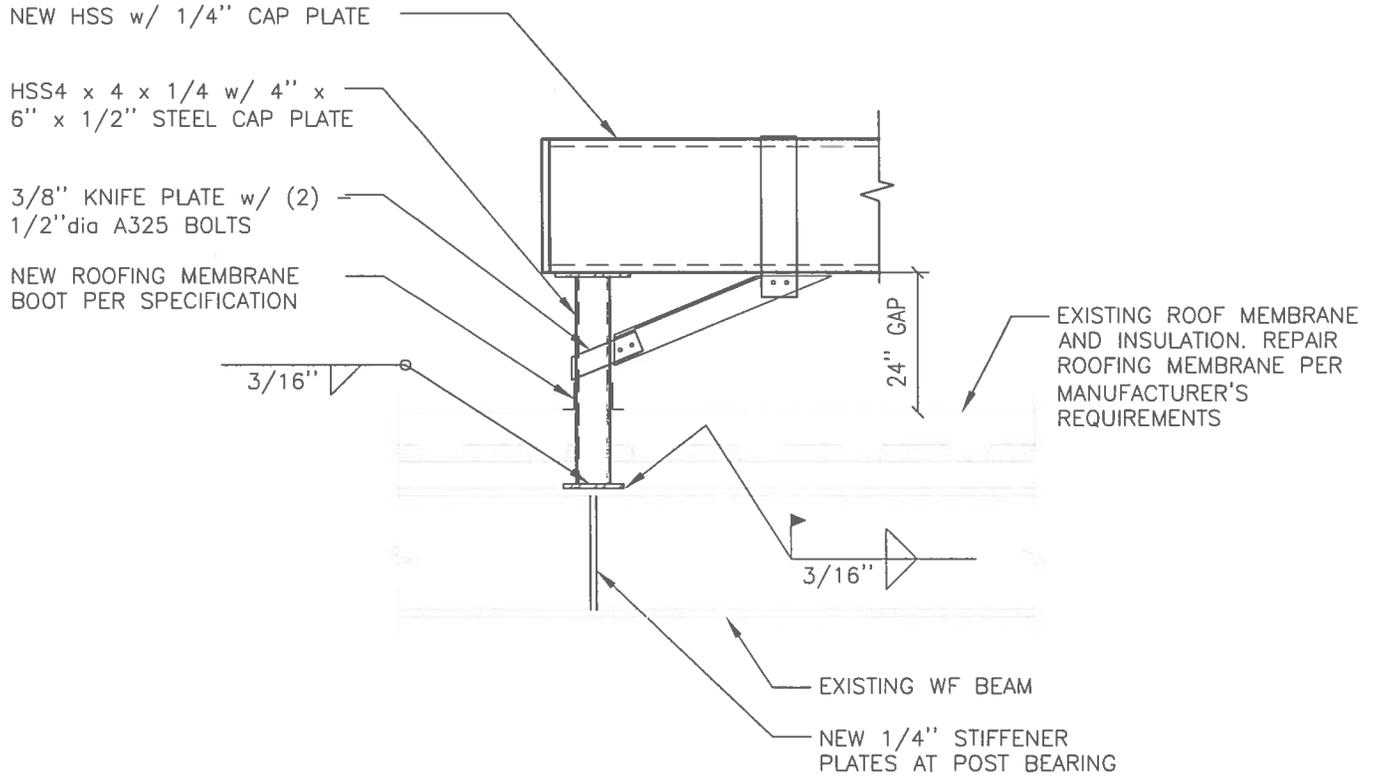
BEAM SIZE	ROWS OF BOLTS
W8,W10	2
W12,W14	3
W16	4
W18	5
W21,W24	6



5 TYPICAL FRAMING SECTION

ADDENDUM 01

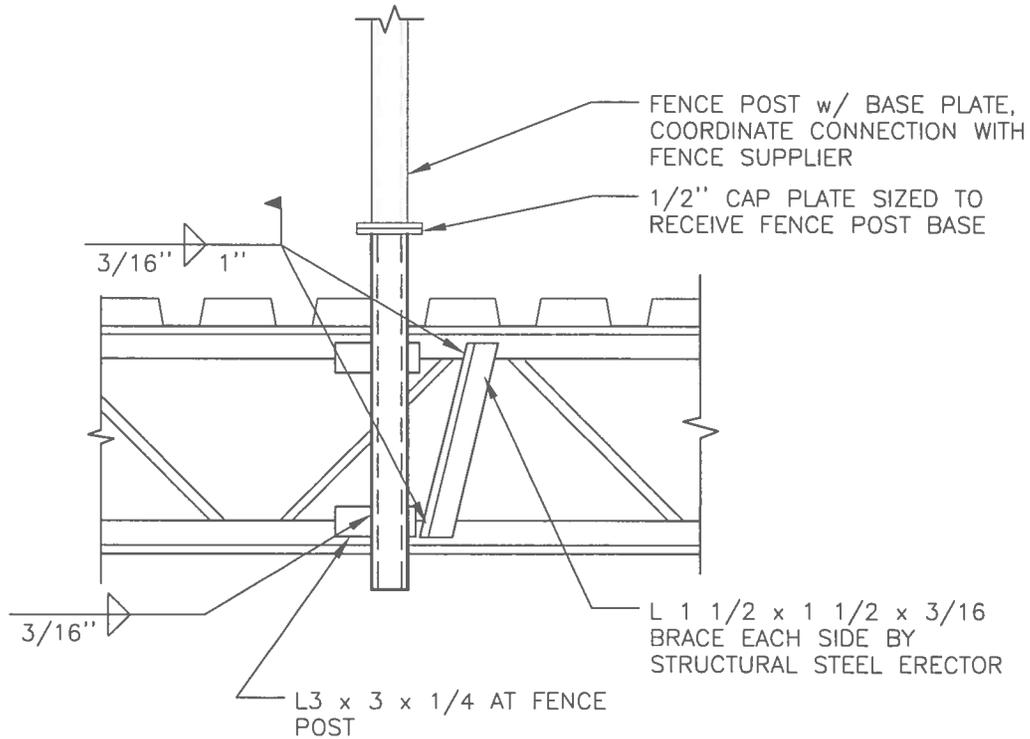




6 NEW UNIT SUPPORT BEARING DETAIL

ADDENDUM 01





- IF JOIST CHORD THICKNESS IS LESS THAN 3/16" THAN USE AN EQUIVALENT 1/8" WELD.
- NO L BRACE REQ'D IF POST OCCURS WITHIN 3" OF JOIST PANEL POINT CENTERLINE.

8

JOIST REINF. AT FENCE POST

ADDENDUM 01

