DOCUMENT – ADDENDUM No. 1

TABLE OF CONTENTS OF ADDENDUM No. 1

A. “Addendum No. 1," Consisting of following Specification Document, Existing Roof Report, and Specification Section and is hereby incorporated into THE PROJECT MANUAL.

PROJECT MANUAL

DOCUMENT 00 01 10 TABLE OF CONTENTS

Tyndall Armory Add Roof Core Information Report

SECTION 07 53 23 ETHYLENE-PROPYLENE-DIENE-MONOMER (EPDM) ROOFING-

DRAWING SET

B. “Addendum No. 1 Consisting of following Drawings listed below and incorporated into THE DRAWING SET.

SHEET G-000	TITLE SHEET
SHEET A-503	DETAILS
SHEET A-504	DETAILS

END OF DOCUMENT – ADDENDUM No.1

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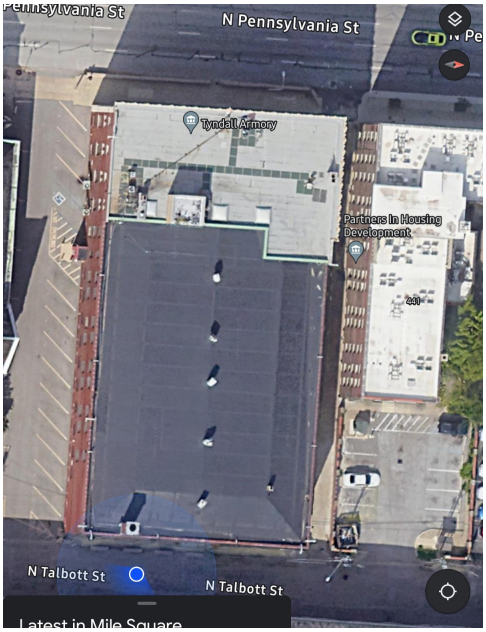
TABLE OF CONTENTS

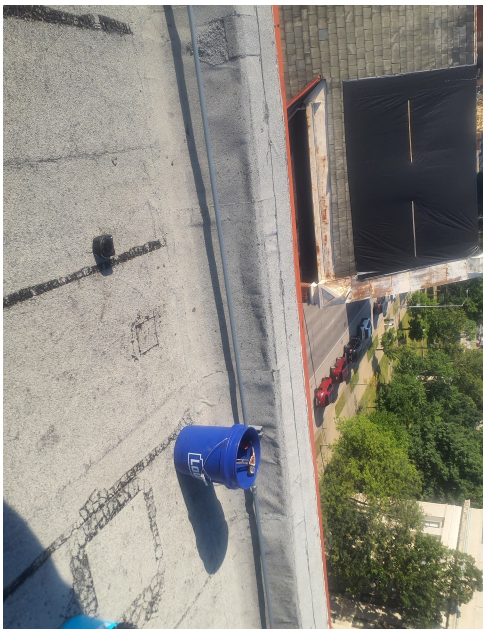
END OF TABLE OF CONTENTS - DOCUMENT 00 01 10

We performed 6 total roof cores the roof consists of

- Asphalt felt paper vapor barrier
- 1.5” Poly-Iso insulation board
- 2.0” Poly Iso insulation board
- 0.5” wood Fiber Board
- 2-Ply Modified Base & Cap

The roofing system is situated atop a concrete deck. We found wet roof insulation near the drains, and the insulation fully detached from the asphalt vapor barrier, leaving no remnants adhered to the surface. The existing asphalt vapor barrier appears well adhered, as it would not easily detach from the concrete. The Insulation is adhered down with asphalt as well as the base & cap membrane. Following these observations, Elevate’s (formerly Firestone) adhesive guidelines specify a positive adhesion test for existing asphalt vapor barriers, while both Carlisle and OlyBond500 affirm that a smooth asphalt vapor barrier qualifies as an acceptable substrate to adhere insulation. An adhesion test could be conducted for due diligence.


Pennsylvania St
N Pennsylvania St
Tyndall Armory
Partners In Housing Development
N Talbott St
N Talbott St

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SECTION 07 53 23 - ETHYLENE-PROPYLENE-DIENE-MONOMER (EPDM) ROOFING

PART 1 - GENERAL

1.1 SUMMARY

A. Section Includes:

1. Adhered ethylene-propylene-diene-terpolymer (EPDM) roofing system.
2. Accessory roofing materials.
3. Substrate board.
4. Roof insulation.
5. Insulation accessories and cover board.
6. Asphalt materials.
7. Roof Walkway System

1.2 PREINSTALLATION MEETINGS

A. Preliminary Conference: Conduct conference at Project site.

1.3 ACTION SUBMITTALS

A. Product Data: For each type of product.

1. For insulation and roof system component fasteners, include copy of FM Approvals' RoofNav listing.

B. Shop Drawings: Include roof plans, sections, details, and attachments to other work, including the following:

1. Layout and thickness if insulation.
2. Base flashings and membrane terminations.
3. Flashing details at penetrations.
4. Tapered insulation, thickness, and slopes.
5. Roof plan showing orientation of steel roof deck and orientation of roof membrane and fastening spacings and patterns for mechanically fastened roofing system.
6. Insulation fastening patterns for corner, perimeter, and field-of-roof locations.
7. Tie-in with air barrier.

C. Samples: For the following products:

1. Roof membrane and flashings of color required.

D. Wind Uplift Resistance Submittal: For roofing system, indicating compliance with wind uplift performance requirements.

1.4 INFORMATIONAL SUBMITTALS

A. Manufacturer Certificates:

1. Performance Requirement Certificate: Signed by roof membrane manufacturer, certifying that roofing system complies with requirements specified in "Performance Requirements" Article.

a. Submit evidence of complying with performance requirements.

2. Special Warranty Certificate: Signed by roof membrane manufacturer, certifying that all materials supplied under this Section are acceptable for special warranty.

B. Product Test Reports: For components of roof membrane and insulation, for tests performed by a qualified testing agency, indicating compliance with specified requirements.

C. Research reports.

D. Field Test Reports:

E. Field quality-control reports.

F. Sample warranties.

1.5 CLOSEOUT SUBMITTALS

A. Maintenance data.

B. Certified statement from existing roof membrane manufacturer stating that existing roof warranty has not been affected by Work performed under this Section.

1.6 QUALITY ASSURANCE

A. Qualifications:

1. Manufacturers: A qualified manufacturer that is listed in FM Approvals' RoofNav for roofing system identical to that used for this Project.
2. Installers: A qualified firm that is approved, authorized, or licensed by roofing system manufacturer to install manufacturer's product and that is eligible to receive manufacturer's special warranty.

1.7 WARRANTY

A. Special Warranty: Manufacturer agrees to repair or replace components of roofing system that fail in materials or workmanship within specified warranty period.

1. Warranty Period: 20 years from Date of Substantial Completion.

2. ALTERNATE BID No. 1: Warranty Period: 30 years from Date of Substantial Completion.

PART 2 - PRODUCTS

2.1 PERFORMANCE REQUIREMENTS

A. Accelerated Weathering: Roof membrane to withstand 2000 hours of exposure when tested in accordance with ASTM G152, ASTM G154, or ASTM G155.

B. Impact Resistance: Roof membrane to resist impact damage when tested in accordance with ASTM D3746, ASTM D4272, or the "Resistance to Foot Traffic Test" in FM Approvals 4470.

C. FM Approvals' RoofNav Listing: Roof membrane, base flashings, and component materials comply with requirements in FM Approvals 4450 or FM Approvals 4470 as part of a roofing system, and are listed in FM Approvals' RoofNav for Class 1 or noncombustible construction, as applicable. Identify materials with FM Approvals Certification markings.

1. Fire/Windstorm Classification: Class 1A-60.
2. Hail-Resistance Rating: FM Global Property Loss Prevention Data Sheet 1-34 MH.

D. SPRI's Directory of Roof Assemblies Listing: Roof membrane, base flashings, and component materials comply with requirements in FM Approvals 4450 or FM Approvals 4470 as part of a roofing system, and are listed in SPRI's Directory of Roof Assemblies for roof assembly identical for that specified for this Project.

1. Wind Uplift Load Capacity: 60 psf.

E. Energy Star Listing: Roofing system to be listed on the DOE's Energy Star "Roof Products Qualified Product List" for low-slope roof products.

2.2 ETHYLENE-PROPYLENE-DIENE-TERPOLYMER (EPDM) ROOFING

A. EPDM Sheet: ASTM D4637/D4637M, Type I, nonreinforced,EPDM sheet with factory-applied seam tape.

1. Basis of Design: Elevate Corporation (Formerly Firestone).
2. Thickness: 60 mils (1.5 mm), nominal– Base Bid
3. Thickness:-90 mils (2.2 mm), nominal.- ALTERNATE BID ITEM No. 1.
4. Exposed Face Color: Black.

2.3 ACCESSORY ROOFING MATERIALS

A. General: Accessory materials recommended by roofing system manufacturer for intended use and compatible with other roofing components.

1. Adhesive and Sealants: Comply with VOC limits of authorities having jurisdiction.

B. Sheet Flashing: 60-mil- (1.5-mm-) thick EPDM, partially cured or cured, according to application.

C. Protection Sheet: Epichlorohydrin or neoprene nonreinforced flexible sheet, 55 to 60 mils (1.4 to 1.5 mm) thick, recommended by EPDM manufacturer for resistance to hydrocarbons, non-aromatic solvents, grease, and oil.

D. Prefabricated Pipe Flashings: As recommended by roof membrane manufacturer.

E. Bonding Adhesive: Manufacturer's standard, water based.

F. Seaming Material: Single-component, butyl splicing adhesive and splice cleaner.

G. Lap Sealant: Manufacturer's standard, single-component sealant, colored to match membrane roofing.

H. Water Cutoff Mastic: Manufacturer's standard butyl mastic sealant.

I. Metal Termination Bars: Manufacturer's standard, predrilled stainless steel or aluminum bars, approximately 1 by 1/8 inch (25 by 3 mm) thick; with anchors.

J. Fasteners: Factory-coated steel fasteners and metal or plastic plates complying with corrosion-resistance provisions in FM Approvals 4470, designed for fastening components to substrate, and acceptable to roofing system manufacturer.

K. Miscellaneous Accessories: Provide pourable sealers, preformed cone and vent sheet flashings, molded pipe boot flashings, preformed inside and outside corner sheet flashings, reinforced EPDM securement strips, T-joint covers, in-seam sealants, termination reglets, cover strips, and other accessories.

1. Provide white flashing accessories for white EPDM membrane roofing.

2.4 ROOF INSULATION

A. Polyisocyanurate Board Insulation: ASTM C1289, Type II, Class 1 felt facer on both major surfaces.

1. Size: 48 by 48 inches (1219 by 1219 mm).
2. Thickness:

a. Base Layer: 1-1/2 inches (38 mm).
b. Middle Layer: 1-inch (25 mm)
c. Upper Layer: 1-1/2-inches (38 mm).

B. Tapered Insulation: Provide factory-tapered insulation boards.

1. Material: Match roof insulation.
2. Minimum Thickness: 1/4 inch (6.35 mm).
3. Slope:

a. Roof Field: 1/4 inch per foot (1:48) unless otherwise indicated on Drawings.
b. Saddles and Crickets: 1/2 inch per foot (1:24) unless otherwise indicated on Drawings.

C. Glass-Mat Gypsum Cover Board: ASTM C1177/C1177M, water-resistant gypsum board.

1. Thickness: 1/4 inch (6 mm)
2. Surface Finish: Fiberglass facer.
3. Vertical flashing backer.

2.5 INSULATION ACCESSORIES AND COVER BOARD

A. Fasteners: Factory-coated steel fasteners and metal or plastic plates complying with corrosion-resistance provisions in FM Approvals 4470, designed for fastening roof insulation to substrate, and acceptable to roofing system manufacturer.

B. Insulation Adhesive: Insulation manufacturer's recommended adhesive formulated to attach roof insulation to substrate or to another insulation layer as follows:

1. Modified asphaltic, asbestos-free, cold-applied adhesive.
2. Bead-applied, low-rise, one-component or multicomponent urethane adhesive.
3. Full-spread, spray-applied, low-rise, two-component urethane adhesive.

2.6 ASPHALT MATERIALS

A. Roofing Asphalt: ASTM D312/D312M, Type III or Type IV.

B. Asphalt Primer: ASTM D41/D41M.

2.7 WALKWAYS

A. Flexible Walkways: Factory-formed, nonporous, heavy-duty, slip-resisting, surface-textured walkway pads, approximately 3/16 inch (5 mm) thick and acceptable to roofing system manufacturer.

1. Size: Approximately 36 by 36 inches (914 by 914 mm).
2. Color: Contrasting with roof membrane.

PART 3 - EXECUTION

3.1 EXAMINATION

A. Examine substrates, areas, and conditions, with Installer present, for compliance with requirements and other conditions affecting performance of the Work.

1. Verify that minimum concrete drying period recommended by roofing system manufacturer has passed.
2. Verify that concrete substrate is visibly dry and free of moisture, and that minimum concrete internal relative humidity is not more than 75 percent, or as recommended by roofing system manufacturer when tested in accordance with ASTM F2170.

a. Test Frequency: One test probe per each 1000 sq. ft. (93 sq. m), or portion thereof, of roof deck, with not less than three test probes.
b. Submit test reports within 24 hours of performing tests.

3. Verify that concrete-curing compounds that will impair adhesion of roofing components to roof deck have been removed.
4. Verify that joints in precast concrete roof decks have been grouted flush with top of concrete.

3.2 INSTALLATION OF ROOFING, GENERAL

A. Install roofing system in accordance with roofing system manufacturer's written instructions, FM Approvals' RoofNav assembly requirements, and FM Global Property Loss Prevention Data Sheet 1-29.

B. Complete terminations and base flashings and provide temporary seals to prevent water from entering completed sections of roofing system at end of workday or when rain is forecast. Remove and discard temporary seals before beginning work on adjoining roofing.

3.3 INSTALLATION OF INSULATION

A. Coordinate installing roofing system components so insulation is not exposed to precipitation or left exposed at end of workday.

B. Comply with roofing system and insulation manufacturer's written instructions for installing roof insulation.

C. Installation Over Concrete Decks:

1. Install base layer of insulation with [joints staggered not less than 24 inches (610 mm) in adjacent rows] [end joints staggered not less than 12 inches (305 mm) in adjacent rows].

a. Where installing composite and noncomposite insulation in two or more layers, install noncomposite board insulation for bottom layer and intermediate layers, if applicable, and install composite board insulation for top layer.
b. Trim insulation neatly to fit around penetrations and projections, and to fit tight to intersecting sloping roof decks.
c. Make joints between adjacent insulation boards not more than 1/4 inch (6 mm) in width.
d. At internal roof drains, slope insulation to create a square drain sump with each side equal to the diameter of the drain bowl plus 24 inches (610 mm).

1) Trim insulation so that water flow is unrestricted.

e. Fill gaps exceeding 1/4 inch (6 mm) with insulation.
f. Cut and fit insulation within 1/4 inch (6 mm) of nailers, projections, and penetrations.

g. Adhere base layer of insulation to concrete roof deck in accordance with FM Approvals' RoofNav assembly requirements and FM Global Property Loss Prevention Data Sheet 1-29 for specified Windstorm Resistance Classification, as follows:

1) Prime surface of concrete deck with asphalt primer at rate of 3/4 gal./100 sq. ft. (0.3 L/sq. m), and allow primer to dry.
2) Set insulation in a solid mopping of hot roofing asphalt, applied within plus or minus 25 deg F (14 deg C) of equiviscous temperature.
3) Set insulation in ribbons of bead-applied insulation adhesive, firmly pressing and maintaining insulation in place.
4) Set insulation in a uniform coverage of full-spread insulation adhesive, firmly pressing and maintaining insulation in place.

2. Install upper layers of insulation and tapered insulation with joints of each layer offset not less than 12 inches (305 mm) from previous layer of insulation.

a. Staggered end joints within each layer not less than 24 inches (305 mm) in adjacent rows.
b. Install with long joints continuous and with end joints staggered not less than 12 inches (305 mm) in adjacent rows.
c. Trim insulation neatly to fit around penetrations and projections, and to fit tight to intersecting sloping roof decks.
d. Make joints between adjacent insulation boards not more than 1/4 inch (6 mm) in width.
e. At internal roof drains, slope insulation to create a square drain sump with each side equal to the diameter of the drain bowl plus 24 inches (610 mm).

1) Trim insulation so that water is unrestricted.

f. Fill gaps exceeding 1/4 inch (6 mm) with insulation.
g. Cut and fit insulation within 1/4 inch (6 mm) of nailers, projections, and penetrations.
h. Loosely lay each layer of insulation units over substrate.
i. Adhere each layer of insulation to substrate using adhesive in accordance with FM Approvals' RoofNav assembly requirements and FM Global Property Loss Prevention Data Sheet 1-29 for specified Windstorm Resistance Classification, as follows:

1) Set each layer of insulation in a solid mopping of hot roofing asphalt, applied within plus or minus 25 deg F (14 deg C) of equiviscous temperature.
2) Set each layer of insulation in ribbons of bead-applied insulation adhesive, firmly pressing and maintaining insulation in place.
3) Set each layer of insulation in a uniform coverage of full-spread insulation adhesive, firmly pressing and maintaining insulation in place.

3.4 ADHERED ROOFING INSTALLATION

A. Adhere roof membrane over area to receive roofing in accordance with roofing system manufacturer's written instructions.

B. Unroll membrane roof membrane and allow to relax before installing.

C. Start installation of roofing in presence of roofing system manufacturer's technical personnel and Owner's testing and inspection agency.

D. Accurately align roof membrane and maintain uniform side and end laps of minimum dimensions required by manufacturer. Stagger end laps.

E. Bonding Adhesive: Apply to substrate and underside of roof membrane at rate required by manufacturer and allow to partially dry before installing roof membrane. Do not apply to splice area of roof membrane.

F. Fabric-Backed Roof Membrane Adhesive: Apply to substrate at rate required by manufacturer and install fabric-backed roof membrane.

G. In addition to adhering, mechanically fasten roof membrane securely at terminations, penetrations and perimeters.

H. Apply roof membrane with side laps shingled with slope of roof deck where possible.

I. Adhesive Seam Installation: Clean both faces of splice areas, apply splicing cement.

1. Firmly roll side and end laps of overlapping roof membrane to ensure a watertight seam installation.
2. Apply lap sealant and seal exposed edges of roofing terminations.
3. Apply a continuous bead of in-seam sealant before closing splice if required by roofing system manufacturer.

J. Spread sealant or mastic bed over deck-drain flange at roof drains, and securely seal roof membrane in place with clamping ring.

K. Adhere protection sheet over roof membrane at locations indicated.

3.5 INSTALLATION OF BASE FLASHING

A. Install sheet flashings and preformed flashing accessories, and adhere to substrates in accordance with roofing system manufacturer's written instructions.

B. Apply bonding adhesive to substrate and underside of sheet flashing at required rate, and allow to partially dry. Do not apply to seam area of flashing.

C. Flash penetrations and field-formed inside and outside corners with cured or uncured sheet flashing.

D. Clean splice areas, apply splicing cement, and firmly roll side and end laps of overlapping sheets to ensure a watertight seam installation. Apply lap sealant and seal exposed edges of sheet flashing terminations.

E. Terminate and seal top of sheet flashings and mechanically anchor to substrate through termination bars.

3.6 INSTALLATION OF COVER BOARDS

A. Install cover boards over substrate with long joints in continuous straight lines with end joints staggered between rows. Offset joints of insulation below a minimum of 6 inches (150 mm) in each direction.

1. Trim cover board neatly to fit around penetrations and projections, and to fit tight to intersecting sloping roof decks.
2. Cut and fit cover board tight to nailers, projections, and penetrations.
3. Adhere cover board to substrate using adhesive in accordance with FM Approvals' RoofNav assembly requirements and FM Global Property Loss Prevention Data Sheet 1-29 for specified Windstorm Resistance Classification, as follows:

a. Set cover board in ribbons of bead-applied insulation adhesive, firmly pressing and maintaining insulation in place.
b. Set cover board in a uniform coverage of full-spread insulation adhesive, firmly pressing and maintaining insulation in place.

B. Install slip sheet over cover board and immediately beneath roofing.

3.7 FIELD QUALITY CONTROL

A. Testing Agency: Engage a qualified testing agency to inspect substrate conditions, surface preparation, roof membrane application, flashings, protection, and drainage components, and to furnish reports to Architect.

B. Perform the following tests:

1. Infrared Thermography: Testing agency surveys entire roof area using infrared color thermography in accordance with ASTM C1153.

a. Perform tests before overlying construction is placed.
b. After infrared scan, locate specific areas of leaks by electrical capacitance/impedance testing or nuclear hydrogen detection testing.
c. After testing, repair leaks, repeat tests, and make further repairs until roofing and flashing installations are watertight.

1) Cost of retesting is Contractor's responsibility.

d. Testing agency to prepare survey report of initial scan indicating locations of entrapped moisture, if any.

C. Final Roof Inspection: Arrange for roofing system manufacturer's technical personnel to inspect roofing installation on completion, in presence of Architect, and to prepare inspection report.

D. Repair or remove and replace components of roofing system where inspections indicate that they do not comply with specified requirements.

3.8 PROTECTING AND CLEANING

A. Protect roofing system from damage and wear during remainder of construction period. When remaining construction does not affect or endanger roofing system, inspect roofing system for deterioration and damage, describing its nature and extent in a written report, with copies to Architect and Owner.

B. Correct deficiencies in or remove roofing system that does not comply with requirements, repair substrates, and repair or reinstall roofing system to a condition free of damage and deterioration at time of Substantial Completion and in accordance with warranty requirements.

C. Clean overspray and spillage from adjacent construction using cleaning agents and procedures recommended by manufacturer of affected construction.

END OF SECTION 07 53 23

MDI-SAB-24-B-009
TYNDALL ARMORY ROOF REPLACEMENT
INDIANA NATIONAL GUARD
711 N. PENNSYLVANIA
INDIANAPOLIS, IN 46204

JULY 31, 2024

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BRIGADIER GENERAL USA (RET.) MICHAEL A. KIEFER, President, State Armory Board
COLONEL KEVIN A. STEPHENSON, NGB, USPFO for Indiana
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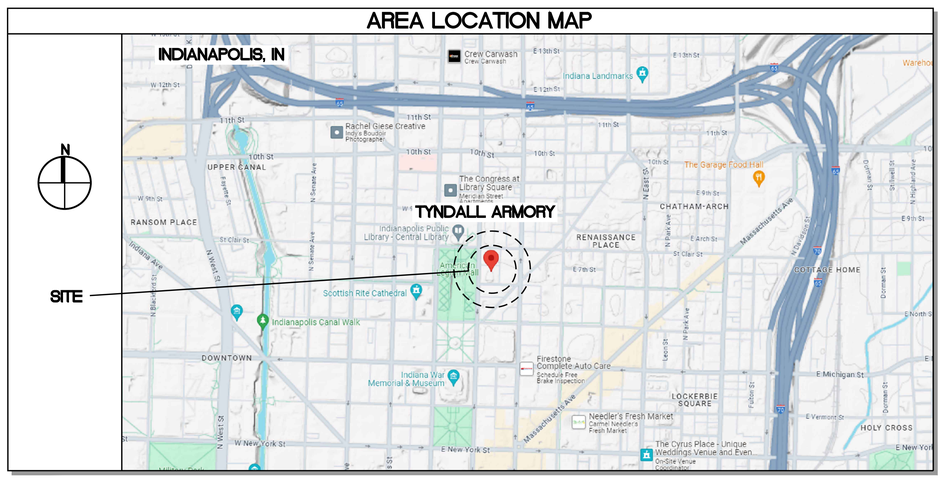
ALEXIS COZZARELLI, Deputy State Contracting Officer, Adjutant General's Agency
JASON BRADY, Indiana National Guard, Facilities Management Officer

DRAWING INDEX

DWG.	DRAWING TITLE	ISSUE/REVISION DATE
G-000	TITLE SHEET	
G-001	LOGISTICS PLAN TYNDALL ARMORY	
G-501	ARCHITECTURAL SYMBOLS AND ABBREVIATIONS	
A-130	PARTIAL MAIN ROOF DEMO PLAN	
AB-2-130	ABI #2 – PARTIAL MAIN ROOF DEMO PLAN	
A-131	MAIN ROOF PARTIAL ROOF REPLACEMENT	
AB-1-131	ABI #1 PARTIAL ROOF PLAN	
AB-2-131	ABI # – PARTIAL ROOF MAIN ROOF PLAN	
AB-3-131	ABI #3 – PENTHOUSE, RE-POINT PLAN AND ELEVATIONS	
A-211	PARAPET WALL ELEVATIONS	
A-501	DETAILS	
A-502	DETAILS	
A-503	DETAILS	
A-504	DETAILS	
ME-001	ELECTRICAL SYMBOLS	
ME-002	ELECTRICAL AND MOUNTING DETAILS	
ME-003	ELECTRICAL SPECS	
MED-100	ROOF-DEMOLITION PLAN	
ME-200	ROOF – ROUTING PLAN	
ME-300	DESIGN DETAILS	
ME-301	DESIGN DETAILS	
ME-401	ELECTRICAL DISCONNECTS	

AREA LOCATION MAP



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SIGNATURE
SEAL

MICHAEL F. COLE REGISTERED No. AR00032507 STATE OF INDIANA REGISTERED ARCHITECT

DATE: 07/31/2024
COMMISSION: 24105
DRAWING BY: M.J.B.
CHECKED BY: M.F.C.

REVISIONS

MARK	DATE	DESCRIPTION
1	08.27.2024	ADDENDA

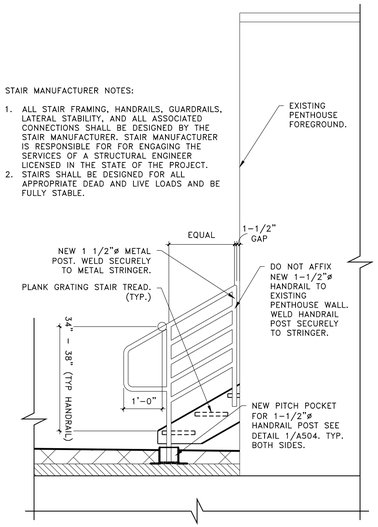
BID SET

PROJECT NAME
TYNDALL ARMORY
ROOF REPLACEMENT

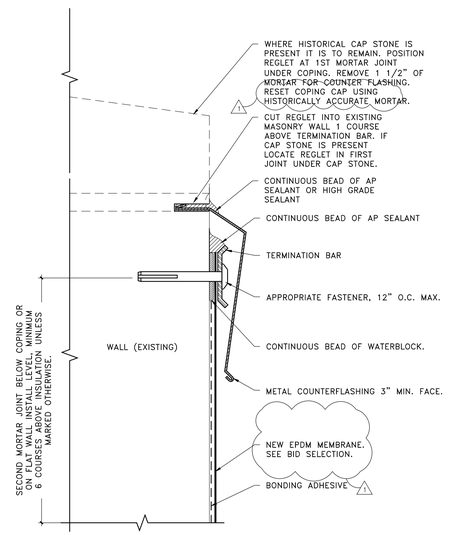
711 N. PENNSYLVANIA
INDIANAPOLIS, IN 46204

SHEET TITLE
TITLE SHEET
DRAWING INDEX

SHEET NUMBER
G-000



PENTHOUSE STAIRS DETAIL 9 / A503
SCALE: 1/4"=1'-0"

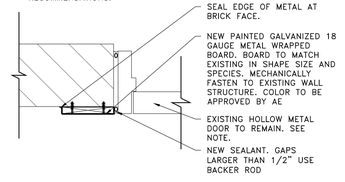


NOTE:
1. REGULAR MAINTENANCE OF COUNTER-FLASHING AND SEALANTS REQUIRED. NOT INCLUDED AS PART OF WARRANTY.
2. METAL COUNTER-FLASHING SHALL BE PRE-FINISHED .080" MIN. ALUMINUM FORMED WITH HEMMED LOWER EDGE.
3. INSTALL TERMINATION BAR WITH 1/4" GAP BETWEEN ADJOINING SECTIONS.
4. TERMINATION BAR MUST BE CUT AT INSIDE AND OUTSIDE CORNERS. DO NOT BEND AROUND CORNERS.
5. TERMINATION BAR MUST BE FASTENED WITHIN 1" MAX. OF ALL SECTION ENDS.
6. INSTALL METAL WORK IN ACCORDANCE WITH CURRENT SMACNA RECOMMENDATIONS.

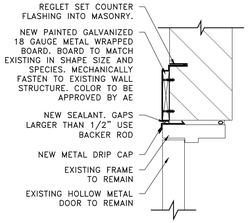
MASONRY, CONCRETE WALLS, AND CURBS MUST BE WATERPROOFED AND MAINTAINED IN ORDER FOR ANY SURFACE MOUNTED TERMINATION TO BE EFFECTIVE

(TYP.) TERMINATION BAR AND COUNTER FLASHING 7 / A503
SCALE: 6"=1'-0"

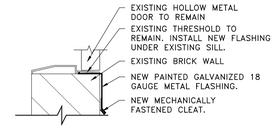
NOTE:
1. DOOR AND FRAME TO REMAIN. CLEAN, SAND AND RE-PAINT WITH ALKYD SEMI-GLOSS ENAMEL. COLOR TO BE APPROVED BY AE.
2. INSTALL METAL WORK IN ACCORDANCE WITH CURRENT SMACNA RECOMMENDATIONS.



B-JAMB



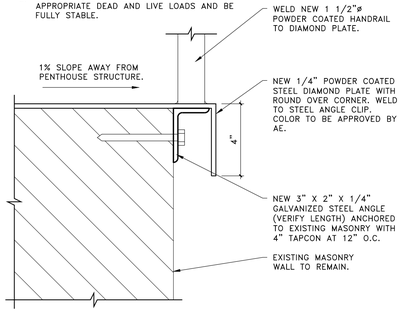
A-HEAD



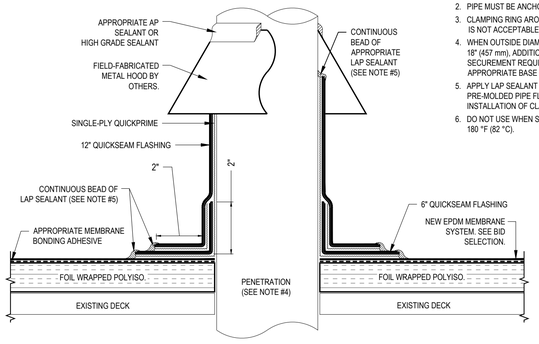
C-SILL

OUTSWING HOLLOW METAL DOOR FRAME DETAILS 6 / A503
SCALE: 1 1/2"=1'-0"

STAIR MANUFACTURER NOTES:
1. ALL STAIR FRAMING, HANDRAILS, GUARDRAILS, LATERAL STABILITY, AND ALL ASSOCIATED CONNECTIONS SHALL BE DESIGNED BY THE STAIR MANUFACTURER. STAIR MANUFACTURER IS RESPONSIBLE FOR FOR ENGAGING THE SERVICES OF A STRUCTURAL ENGINEER LICENSED IN THE STATE OF THE PROJECT.
2. STAIRS SHALL BE DESIGNED FOR ALL APPROPRIATE DEAD AND LIVE LOADS AND BE FULLY STABLE.

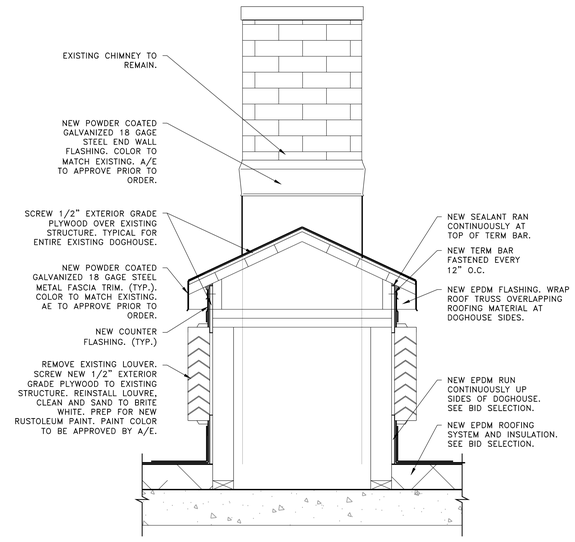


DIAMOND PLATE DECK ATTACHMENT DETAIL 8 / A503
SCALE: 3"=1'-0"



PIPE PENETRATION NOTE:
1. REMOVE ALL EXISTING FLASHINGS, LEADS, ETC. PIPE SURFACE MUST BE FREE OF ALL RUST, GREASE, INSULATION, ETC.
2. PIPE MUST BE ANCHORED TO ENSURE STABILITY.
3. CLAMPING RING AROUND TOP OF FORMFLASH IS NOT ACCEPTABLE.
4. WHEN OUTSIDE DIAMETER OF THE PIPE EXCEEDS 18" (457 mm), ADDITIONAL FIELD MEMBRANE SECUREMENT REQUIRED. REFER TO APPROPRIATE BASE TIE-IN DETAILS.
5. APPLY LAP SEALANT BETWEEN PENETRATION AND PRE-MOLDED PIPE FLASHING PRIOR TO INSTALLATION OF CLAMPING RING.
6. DO NOT USE WHEN SERVICE LINE TEMP. EXCEEDS 180 °F (82 °C).

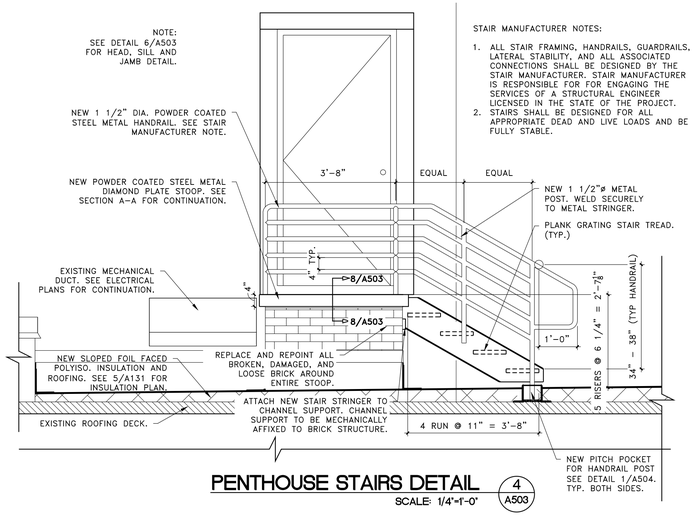
PIPE PENETRATION DETAIL 5 / A503
SCALE: 1"=1'-0"



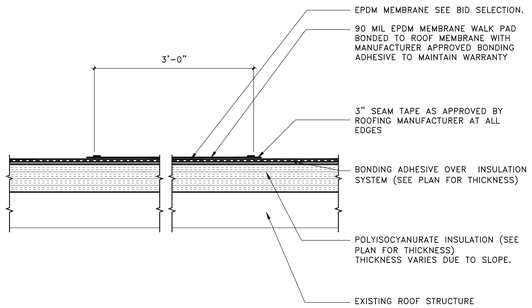
DOGHOUSE SECTION 3 / A503
SCALE: 1"=1'-0"

NOTE:
SEE DETAIL 6/A503 FOR HEAD, SILL AND JAMB DETAIL.

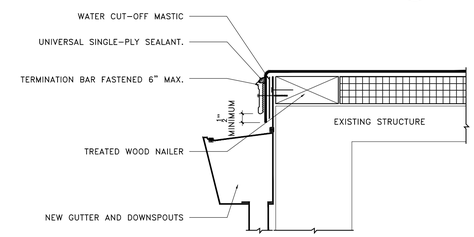
STAIR MANUFACTURER NOTES:
1. ALL STAIR FRAMING, HANDRAILS, GUARDRAILS, LATERAL STABILITY, AND ALL ASSOCIATED CONNECTIONS SHALL BE DESIGNED BY THE STAIR MANUFACTURER. STAIR MANUFACTURER IS RESPONSIBLE FOR FOR ENGAGING THE SERVICES OF A STRUCTURAL ENGINEER LICENSED IN THE STATE OF THE PROJECT.
2. STAIRS SHALL BE DESIGNED FOR ALL APPROPRIATE DEAD AND LIVE LOADS AND BE FULLY STABLE.



PENTHOUSE STAIRS DETAIL 4 / A503
SCALE: 1/4"=1'-0"



3' X 3' WALKWAY PAVER DETAIL (TYP.) 2 / A503
SCALE: 3"=1'-0"



NOTES:
1. FASTENING OF METAL TERMINATION OR BALLAST RETAINING BAR MUST PROVIDE CONSTANT COMPRESSION ON WATER CUT-OFF MASTIC.

GUTTER DETAIL 1 / A503
SCALE: 3"=1'-0"

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DATE:	07/31/2024
COMMISSION:	24105
DRAWING BY:	M.J.B.
CHECKED BY:	M.F.C.

REVISIONS

MARK	DATE	DESCRIPTION
1	08.27.2024	ADDENDA

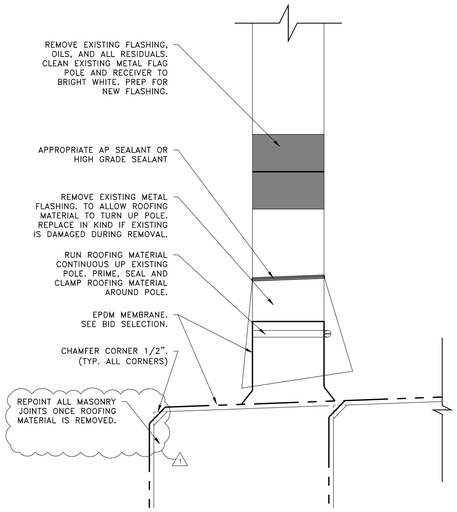
BID SET

PROJECT NAME
TYNDALL ARMORY ROOF REPLACEMENT

711 N. PENNSYLVANIA
INDIANAPOLIS, IN 46204

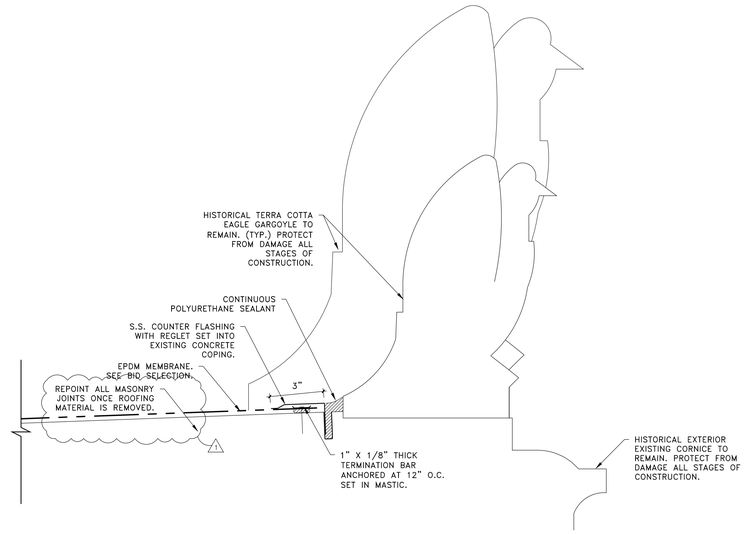
SHEET TITLE
DETAILS

SHEET NUMBER
A-503



FLAGPOLE FLASHING DETAIL 7 A504

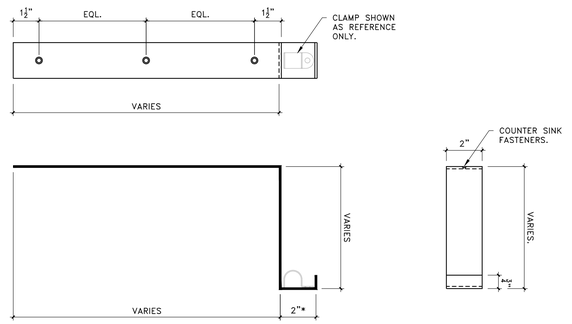
SCALE: 3"=1'-0"



TERRA COTTA EAGLE DETAIL 6 A504

SCALE: 3"=1'-0"

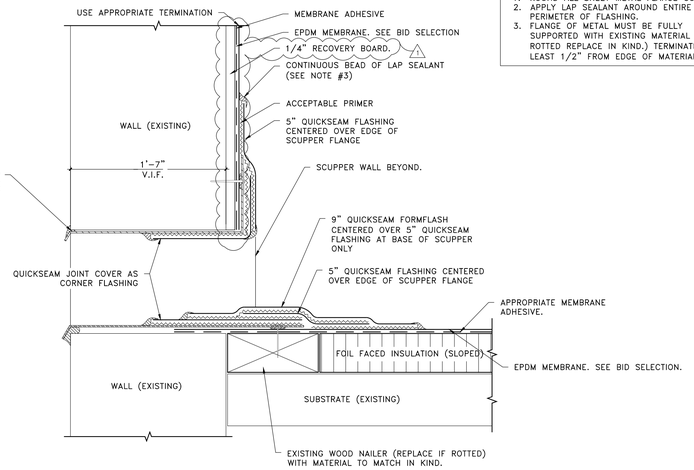
ELECTRICAL CONDUIT BRACKET NOTE:
*1. USE 1/8" THICK METAL.
2. CONDUIT DESIGNED TO CLAMP TO BRACKET. VERIFY SIZE OF CONDUIT AND CLAMP PRIOR TO CONSTRUCTING.



(TYP.) ELECTRICAL CONDUIT BRACKET DETAIL 8 A504

SCALE: 3"=1'-0"

SCUPPER NOTE:
1. ROUND ALL SHEET METAL FLANGE CORNERS.
2. APPLY LAP SEALANT AROUND ENTIRE PERIMETER OF FLASHING.
3. FLANGE OF METAL MUST BE FULLY SUPPORTED WITH EXISTING MATERIAL (IF ROTTED REPLACE IN KIND.) TERMINATE AT LEAST 1/2" FROM EDGE OF MATERIAL.



EXISTING SCUPPER RE-ROOF DETAIL 2 A504

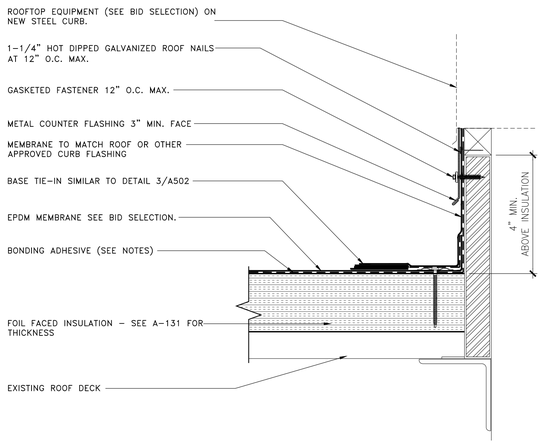
SCALE: 6"=1'-0"

ISOMETRIC PARAPET DETAIL 5 A504

SCALE: 1 1/2"=1'-0"

EQUIPMENT CURB NOTES:

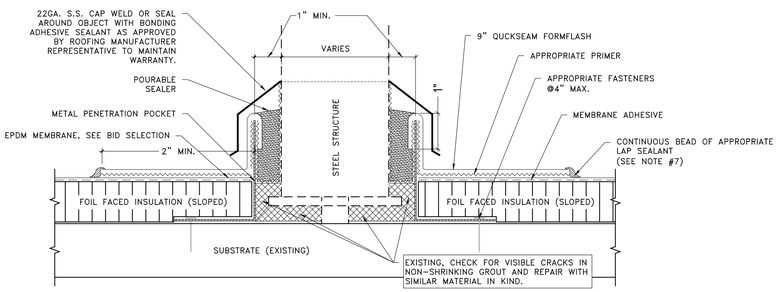
1. METAL COUNTER FLASHING SHALL BE .080" MIN. ALUMINUM FORMED WITH HEMMED LOWER EDGE MOUNTED TIGHTLY TO UNDERSIDE OF EQUIPMENT.
2. MAXIMUM 6" LONG FASTENERS. (NOTE: WOOD BLOCKING MAY BE SUBSTITUTED FOR INSULATION TO REDUCE FASTENER LENGTH REQUIREMENT).
3. BONDING ADHESIVE REQUIRED BETWEEN MEMBRANE AND INSULATION.
4. BATTEN STRIP MAY BE USED IN LIEU OF 2" METAL PLATES.
5. INSTALL METAL WORK IN ACCORDANCE WITH CURRENT SMACNA RECOMMENDATIONS.



CURB DETAIL 3 A504

SCALE: 3"=1'-0"

PITCH POCKET NOTE:
1. REMOVE ALL EXISTING FLASHINGS, LEADS, ETC. PIPE SURFACE MUST BE FREE OF ALL RUST, GREASE, INSULATION, ETC. PRIOR TO NEW WORK.
2. POURABLE SEALER MOUNDED TO SHED WATER (MINIMUM DEPTH OF 2". REMAINDER OF POCKET MAY BE FILLED WITH A NON - SHRINKING GROUT.
3. DO NOT USE OVER EXISTING PENETRATION POCKETS.
4. IF FIELD MEMBRANE IS CUT FOR INSTALLATION, THE MEMBRANE MUST BE REPAIRED WITH EPDM MEMBRANE PRIOR TO INSTALLATION OF THE PENETRATION POCKET.
5. MEMBRANE MUST BE INSTALLED WITHIN 1/2" OF PENETRATION.
6. SPLICING COMPOUND REQUIRED ON PENETRATIONS AND MEMBRANE INSIDE OF PENETRATION POCKET.
7. PRIME STRUCTURE AND INSIDE OF POCKET BEFORE INSTALLING POURABLE SEALER.



PITCH POCKET DETAIL 1 A504

SCALE: 6"=1'-0"

NOTE:
BRACKET FOR ELECTRICAL CONDUIT ONLY USED IN AREAS THAT ELECTRICAL CONDUIT ARE IDENTIFIED ON ELECTRICAL DRAWINGS. CONDUIT SHALL RUN LEVEL ALONG WALL. VERIFY QUANTITY AND LENGTH OF BRACKET ALL LOCATIONS PRIOR TO MAKING.

PARAPET DETAIL 4 A504

SCALE: 1 1/2"=1'-0"

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