Waste to Energy Facility

10500 BUCKINGHAM ROAD
FORT MYERS, FLORIDA 33905

ROOF REPLACEMENT

CONSTRUCTION DOCUMENTS

JANUARY 24, 2024

PROJECT CONSULTANTS

TLC ENGINEERING SOLUTIONS
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TLC No.: Project Number
THINK. LISTEN. CREATE.

STRUCTURAL ENGINEER

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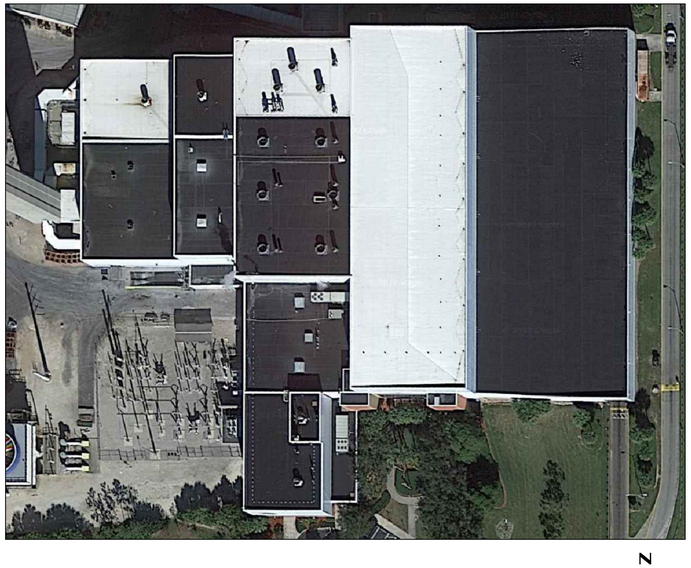
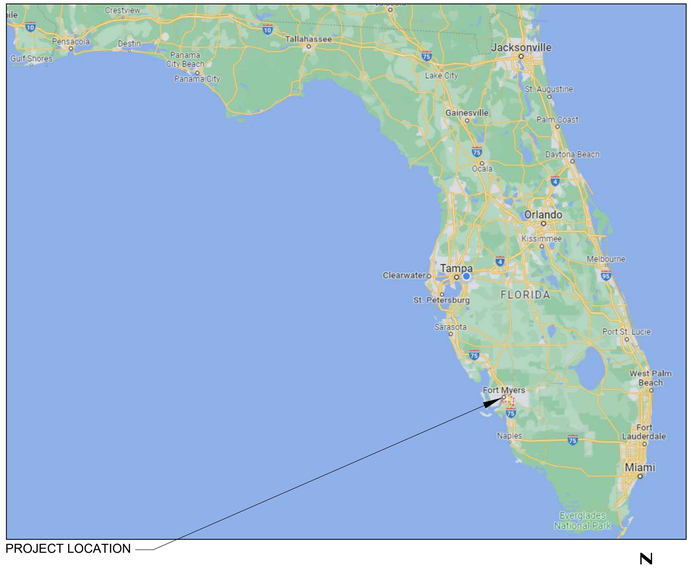
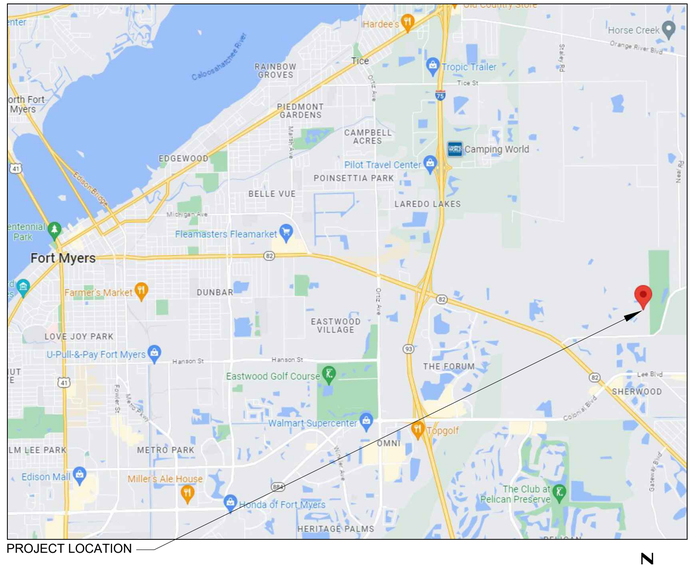


AERIAL VIEW OF BUILDING



PROJECT LOCATION



VICINITY MAP

PBA Design Group
2742 JASON ST. TAMPA, FL 33619 www.pbadesigngroup.com

WASTE TO ENERGY FACILITY
ROOF REPLACEMENT

PROJECT ADDRESS: 10500 BUCKINGHAM ROAD, FORT MYERS, FL 33905
CONSTRUCTION DOCUMENTS

ISSUE RECORD:

STATE OF FLORIDA — RALEIGH J. BECKHAM — AR97270
Raleigh J. Beckham — Digitally signed by Raleigh J. Beckham, Date: 2024.01.23 09:56:14 -05'00'

No.	Description	Date

SHEET NO.

A0.0

Date JANUARY 24, 2024

COVER SHEET

Scale: AS NOTED

GENERAL NOTES:

1. **THIS IS A GRANT-FUNDED PROJECT. THE CONTRACTOR SHALL STRICTLY ADHERE TO THE REQUIREMENTS OUTLINED IN THE CONSTRUCTION CONTRACT FOR REQUIRED DOCUMENTATION, INCLUDING REPORTS, DATA AND DOCUMENTATION OF DAVIS BACON WAGES. THE COUNTY WILL ENGAGE A CONSULTANT TO MONITOR COMPLIANCE WITH THE TERMS OF THE GRANT**.

2. THE CONSTRUCTION SEQUENCING OF THIS PROJECT IS OF THE UTMOST IMPORTANCE. THE WORK OF THIS CONTRACT MAY NOT INTERRUPT ANY ASPECT OF THE OPERATION OF THE FACILITY. ANY POTENTIAL DISRUPTION MUST BE REVIEWED IN ADVANCE WITH THE OWNER.

3. ACCESS: THE CONTRACTOR SHALL MAINTAIN SAFE AND PROTECTED PATHS OF INGRESS AND EGRESS TO AND FROM THE CONSTRUCTION AREAS. THIS SHALL INCLUDE CLEARLY MARKED DIRECTIONS AND SIGNS. **ACCESS TO THE ROOF WILL BE FROM THE EXTERIOR OF THE BUILDING FOR MATERIALS AND EQUIPMENT. PROVIDE SCAFFOLD STAIRS, MAN LIFT, CRANE, ETC. AS NEEDED. AREA TG-1 (ONLY) IS ACCESSIBLE FROM THE BUILDING INTERIOR FOR WORKERS. WORKERS MUST BE ACCOMPANIED AT ALL TIMES WHILE INSIDE OF THE FACILITY.**

4. THE CONTRACTOR SHALL PROVIDE BARRICADES AND PARTITIONS AS REQUIRED TO SEPARATE STAFF AND VISITORS FROM CONSTRUCTION OPERATIONS. BARRICADES ARE TO REMAIN IN PLACE UNTIL CONSTRUCTION IS COMPLETE.

5. **CONSTRUCTION SHALL NOT INTERFERE WITH THE 24/7 OPERATION OF THIS FACILITY. THE CONTRACTOR MUST CLOSELY COORDINATE WITH THE ON-SITE FACILITY MANAGER TO IDENTIFY POTENTIAL STAGING AND STORAGE AREAS, CRANE LOCATIONS, SAFETY PROTOCOLS, AND SITE ACCESS PATHS.**

6. SHOULD THE CONTRACTOR BECOME AWARE OF EXISTING CONDITIONS WHICH APPEAR TO CONFLICT WITH THESE CONTRACT DOCUMENTS, HE SHALL IMMEDIATELY BRING SUCH TO THE ATTENTION OF PBA DESIGN GROUP BY SUBMITTING A REQUEST FOR INFORMATION (RFI). REFER TO THE SPECIFICATION FOR MORE INFORMATION REGARDING THE RFI PROCESS. THE CONTRACTOR IS NOT TO PROCEED UNTIL THE CONFLICT IS RESOLVED BY PBA DESIGN GROUP.

7. **THE CONTRACTOR IS REQUIRED TO FIELD VERIFY DIMENSIONS, ELEVATIONS, AND EXISTING CONDITIONS PRIOR TO BID, INCLUDING EQUIPMENT CURB AND SOIL PIPE HEIGHTS. ANY VISIBLE DISCREPANCIES OR OMISSIONS IN THE BID DOCUMENTS SHALL BE BROUGHT TO THE ATTENTION OF PBA DESIGN GROUP PRIOR TO BID VIA PRE-BID RFI. IF NOT BROUGHT TO THE ATTENTION OF PBA PRIOR TO BID, THE CONTRACTOR IS REQUIRED TO INCLUDE THE COST TO RESOLVE SUCH DISCREPANCIES OR OMISSIONS IN THE BASE BID.**

8. WHERE, IN THE OPINION OF THE CONTRACTOR, THE DOCUMENTS INCLUDE CONFLICTING OR UNCLEAR INFORMATION, THE CONTRACTOR SHALL PROVIDE THE HIGHER QUALITY AND/OR GREATER QUANTITY OF THE CONFLICTING REQUIREMENTS. PBA DESIGN GROUP, INC. IS THE FINAL AUTHORITY FOR INTERPRETATION OF THE DOCUMENTS IN SITUATIONS OF CONFLICT.

9. SHOULD THE CONTRACTOR BECOME AWARE OF ANY EXISTING CONDITIONS WHICH MAY HAVE POTENTIAL TO CAUSE STRUCTURAL DISTRESS OR OVERSTRESS, HE SHALL IMMEDIATELY BRING SUCH TO THE ATTENTION OF PBA DESIGN GROUP

10. THE BACKGROUND DATA WITHIN THE CONSTRUCTION DOCUMENTS IS PREPARED BASED UPON THE AVAILABLE AS-BUILT DRAWINGS AND/ OR FROM OBSERVATIONS IN THE FIELD.

11. DETAILS AND SHEET METAL TRANSITIONS THAT ARE NOT SHOWN SHALL BE REQUIRED AS IF THEY ARE INDICATED ON THE PLANS. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS TO PBA DESIGN GROUP, INC. FOR REVIEW AND APPROVAL.

12. DETAILE INDICATED AS "**TYPICAL**" ON THESE PLANS WILL NOT BE TAGGED TO EACH AND EVERY LOCATION WHERE THE DETAIL APPLIES. THE CONTRACTOR SHALL PERFORM THE WORK AS IF THE DETAILS ARE TAGGED TO EACH LOCATION WHERE SIMILAR DETAILS OCCUR.

13. THE CONTRACTOR IS REQUIRED TO PROTECT ALL EXISTING CONSTRUCTION INTENDED TO REMAIN. WHERE ANY PART OF THE FACILITY, EQUIPMENT, SITE FEATURES OR SUB-GRADE IMPROVEMENTS ARE DAMAGED DURING THE PERFORMANCE OF THIS WORK, SUCH SHALL BE RESTORED AT NO COST TO THE OWNER. CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO AVOID DAMAGE. REFER TO SPECIAL NOTE **#1**.

14. ALL BLOCKING AND SHEET METAL FABRICATION AND INSTALLATION SHALL COMPLY WITH ES-1 AND/OR RAS 111.

15. ALL HVAC, ELECTRICAL AND LOW VOLTAGE SYSTEMS ARE TO REMAIN IN OPERATION THROUGHOUT CONSTRUCTION. THE CONTRACTOR IS REQUIRED TO PROVIDE TEMPORARY SERVICES AND CONNECTIONS IF SYSTEMS MUST BE DISONNCECTED FOR ANY REASON IN CONJUNCTION WITH THE WORK OF THIS CONTRACT.

16. ROOFTOP EQUIPMENT IS OPERATIONAL AT THE TIME OF BID AND THE CONTRACTOR IS REQUIRED TO KEEP THE EQUIPMENT CONTINUOUSLY IN OPERATION DURING CONSTRUCTION.

17. THE CONTRACTOR SHALL TEST EACH ROOF DRAIN LINE AND CONFIRM IN A WRITTEN REPORT THAT THE LINES ARE CLEAR AND FUNCTIONING PROPERLY.

18. DO NOT SCALE DRAWINGS FOR DIMENSIONS.

19. SECTIONS AND DETAILS ON THE DRAWINGS ARE INTENDED TO BE TYPICAL AND SHALL APPLY AT ALL SIMILAR LOCATIONS, UNLESS OTHER SECTIONS AND DETAILS ARE SPECIFICALLY REFERENCED.

20. THE SAFETY OF THE WORKERS AND SAFE CONDITION OF THE SITE ARE THE SOLE RESPONSIBILITY OF THE CONTRACTOR WHO SHALL ASSUME FULL RESPONSIBILITY FOR ENSURING CONFORMANCE WITH OSHA REQ'MTS. SITE VISITS BY PBA DESIGN GROUP, INC. SHALL NOT CONSTITUTE APPROVAL, AWARENESS OR LIABILITY FOR ANY HAZARDOUS CONDITIONS.

21. IT IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO DETERMINE CONSTRUCTION PROCEDURE, MEANS, METHODS AND SEQUENCE OF CONSTRUCTION. IT IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO ENSURE THE STRUCTURAL STABILITY OF THE BUILDING AND IT'S COMPONENT PARTS DURING ALL PHASES OF CONSTRUCTION. THIS INCLUDES BUT IS NOT LIMITED TO THE ADDITION OF TEMPORARY BRACING, GUYING, SHORING, TIE DOWNS, ETC., AS MAY BE REQUIRED TO RESIST FORCES APPLIED DURING CONSTRUCTION, INCLUDING WIND.

22. ALL CONSTRUCTION PERSONNEL SHALL WEAR GREEN SAFETY VESTS OR CONTRACTOR-ISSUED SHIRTS OF THE SAME COLOR AT ALL TIMES WHILE ON SITE. NO EXCEPTIONS.

23. THE CONTRACTOR WILL ELIMINATE PONDING WATER ON THE NEW ROOF. PONDING WATER IS DEFINED AS WATER STANDING ON THE ROOF SURFACE FOR LONGER THAN 24 HOURS AFTER THE END OF A RAIN EVENT. ADDITIONAL PLIES OF BASE SHEET MATERIAL, ADDITIONAL NSULATION, OR LOWERING OF ROOF DRAINS MUST BE ACCOMPLISHED PRIOR TO INSTALLING THE CAP SHEET. THE CONTRACTOR IS TO CORRECT PONDING WATER AT NO ADDITIONAL COST TO THE OWNER. EXISTING CONDITIONS WHICH LIMIT THE SLOPE OF THE NEW ROOF MUST BE RESOLVED IN SUBMITTALS, PRIOR TO INSTALLATION.

24. **MANDATORY - THE CONTRACTOR IS REQUIRED TO PROVIDE A FULL-TIME SUPERINTENDENT. THIS INDIVIDUAL MUST BE A DIRECT EMPLOYEE OF THE PRIME CONTRACTOR, WHOSE SOLE DUTY IS TO OVERSEE THE WORK. THIS ROLE MAY NOT BE DELEGATED TO A SUBCONTRACTOR OR WORKING CREW MEMBER. MATERIALS MAY NOT BE DELIVERED AND WORK MAY NOT BE PERFORMED WHEN THE SUPERINTENDENT IS NOT ON SITE**

LIGHTNING PROTECTION SYSTEM:

1. THE PROJECT SCOPE INCLUDES REMOVAL AND REINSTALLATION OF THE EXISTING LIGHTNING PROTECTION SYSTEM. THE CONTRACTOR IS REQUIRED TO SURVEY EXISTING CONDITIONS PRIOR TO BID AND INCLUDE IN THE BASE BID THE COST OF ADDITIONAL COMPONENTS NEEDED TO MEET ALL REQUIREMENTS OF THE SPECIFICATION.

PROJECT ARCHITECT:

RALEIGH (JIMMY) BECKHAM
PBA DESIGN GROUP, INC.
2742 JASON STREET
TAMPA, FL 33619

BUILDING CODE COMPLIANCE

1. THE FBC SHALL SUPERSEDE ANY OTHER CODE ADOPTED BY A BOARD, OR ANY OTHER CODE OR ORDINANCE, WHETHER AT THE LOCAL, COUNTY OR STATE LEVEL AND WHETHER ADOPTED BY RULE OR LEGISLATIVE ENACTMENT.

2. ALL OR PORTIONS OF THE FOLLOWING CODES ARE HEREBY INCORPORATED IN AND MADE A PART OF THE FBC, IN THE CASE OF CONFLICTING REQUIREMENTS WHERE THE FBC IS MUTE. THE MORE STRINGENT SHALL APPLY.
   a. FLORIDA EXISTING BUILDING CODE (2023) 8th EDITION
      CHAPTER 2 -DEFINITIONS
      CHAPTER 6 – CLASSIFICATIONS OF WORK.
      CHAPTER 7 ALTERATIONS – LEVEL 1,
      SECTION 706 EXISTING ROOFING
   b. FLORIDA BUILDING CODE (2023) 8th EDITION, MECHANICAL CODE, PLUMBING CODE
   c. WORK SHALL COMPLY WITH CURRENT
   d. FEMA, FEDERAL EMERGENCY MANAGEMENT AGENCY, RULES AND REGULATIONS 44 CFR, PARTS 59 AND 60.
   e. FLORIDA STATUES & STATE REQUIREMENTS
   f. ANSI Z53.1 "AMERICAN NATIONAL STANDARD SAFETY COLOR CODE FOR MARKING PHYSICAL HAZARDS", USED IN SHOPS WHERE MACHINERY REQUIRES MARKING AND SAFETY ZONES.
   g. ASCE/SEI 7-22 AMERICAN SOCIETY OF CIVIL ENGINEERS, MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES.

3. REGULATORY AGENCIES INVOLVED IN PERMITTING FOR THIS PROJECT WILL COORDINATE WITH OTHER AGENCIES FOR REVIEW OF LOCAL AND REGIONAL ISSUES FOR PLAN APPROVAL, PERMIT ISSUANCE, INSPECTIONS AND WORK PLACE SAFETY AS REQUIRED.

4. EXTERIOR PRODUCTS SHALL HAVE A FLORIDA PRODUCT APPROVAL CODE. THE CONTRACTOR SHALL SUBMIT ALL PROPER FLORIDA APPROVAL DOCUMENTATION WITH THE SHOP DRAWINGS / SUBMITTAL FOR REVIEW AND COMMENT. REFER TO THE STRUCTURAL DRAWINGS FOR WIND LOADS AND WIND PRESSURES FOR EACH ZONE.

5. **ADDITIONALLY: A SPECIALLY ENGINEERED FASTENING SOLUTION MAY BE REQUIRED IN ORDER TO MEET THE REQUIREMENTS OF THIS PROJECT IN WHICH CASE THE CONTRACTOR IS RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH THIS EFFORT**.

SCHEDULE:

1. THE CONTRACTOR SHALL SUBMIT A DETAILED CONSTRUCTION SCHEDULE WITHIN 14 DAYS OF ISSUANCE OF THE NOTICE TO PROCEED. THE SCHEDULE SHALL BE UPDATED MONTHLY. REFER TO THE PROJECT SPECIFICATIONS.

2. **BAGHOUSE ROOF AREAS 1 AND 2 MAY NOT BEGIN BEFORE MARCH 1, 2025. THE CONTRACTOR IS REQUIRED TO SEQUENCE THE WORK ACCORDINGLY AND TO MAINTAIN THE OVERALL PROJECT DURATION.**

3. TIME EXTENSIONS MAY BE REQUESTED FOR WEATHER-RELATED DELAYS WHEN THE NUMBER OF ACTUAL WEATHER- RELATED DELAY DAYS EXCEEDS NORMAL CONDITIONS. REFER TO THE ROOFING SYSTEM SPECIFICATIONS.

4. THE SUPERINTENDENT SHALL COORDINATE MATERIAL AND EQUIPMENT DELIVERY TIMES WITH THE FACILITY MANAGER A MINIMUM OF 24 HOURS IN ADVANCE OF THE PLANNED DELIVERY. WITHOUT PROPER NOTICE, CONSTRUCTION DELIVERIES MAY BE TURNED AWAY TO AVOID DELAYING NORMAL FACILITY OPERATIONS.

5. **NOTE: THE PROJECT DURATION STATED IN THE BID DOCUMENTS INCLUDES NORMAL WEATHER-RELATED DELAYS. WHEN THE PROJECT DURATION IS NOT STATED IN THE BID DOCUMENTS, THE CONTRACTOR'S BID MUST STATE THE PROPOSED CONSTRUCTION DURATION. SUCH DURATION MUST INCLUDE TIME FOR NORMAL WEATHER CONDITIONS. REFER TO THE ROOFING SPECIFICATION FOR INFORMATION REGARDING NORMAL WEATHER.**

BASE BID – LOW SLOPE ROOFING

1. DEMOLISH THE EXISTING ROOF SYSTEM TO THE METAL DECK AND REPLACE WITH A SINGLE PLY ROOFING SYSTEM AS SHOWN AND SPECIFIED.

2. **THE CONTRACTOR IS RESPONSIBLE TO LOAD AND HAUL DEMOLITION MATERIALS ACROSS THE SCALES AND DISPOSE OF MATERIALS AT THE APPROPRIATE ON-SITE DISPOSAL FACILITY AS DIRECTED BY THE COUNTY. DISPOSAL LOCATION WILL EITHER BE THE WTE FACILITY, THE CD&D RECYCLING FACILITY, OR THE TRANSFER STATION. WASTE DISPOSAL FEES WILL BE PAID DIRECTLY BY THE COUNTY AND NOT CHARGED TO THE CONTRACTOR**.

3. REPLACE EXISTING EDGE METAL, METAL FLASHING, METAL FASCIA, METAL COPING CAPS, COUNTER-FLASHING, EXPANSION JOINT COVERS, ETC. AS INDICATED ON THESE DRAWINGS.

4. **PRIOR TO FASTENING THROUGH THE ROOF SYSTEM THE CONTRACTOR IS REQUIRED TO LOCATE AND PROTECT EXISTING CONDUIT WHICH MAY BE PRESENT WITHIN THE ROOF SYSTEM OR INSTALLED TIGHT TO THE UNDERSIDE OF THE ROOF DECK. THE CONTRACTOR IS 100% RESPONSIBLE FOR REPLACEMENT OF DAMAGED CONDUIT AND WIRING AT NO COST TO THE OWNER.**

5. REMOVE AND REINSTALL EXISTING CONDUIT, PIPING, FIXTURES AND DEVICES UNDER THE BASE BID WHERE THEY INTERFERE WITH THE ROOFING AND SHEET METAL WORK.

6. REPLACE THE EXISTING ROOF DRAINS WITH NEW GALVANIZED BOWL, RING AND DOME WHERE REQUIRED BY THESE DRAWINGS. REFER TO THE ROOF DRAIN DETAIL. THE BASIS OF DESIGN DOME IS SMITH 1010 CID, LOCKING TYPE.

7. PROVIDE TEMPORARY LADDERS AS NEEDED DURING CONSTRUCTION FOR ACCESS TO VARIOUS ROOF AREAS. NEW PERMANENT LADDERS, IF REQUIRED BY THESE DOCUMENTS, ARE TO BE INSTALLED AT THE END OF THE PROJECT.

8. SAFETY RAILS ARE REQUIRED FOR EACH ITEM OF WORKING EQUIPMENT LOCATED WITHIN 10'-0" FEET OF THE ROOF EDGE. THE MINIMUM HEIGHT SHALL BE 42" ABOVE THE ROOF SURFACE. WIDTH TO EXTEND A MINIMUM OF 36" ON EACH SIDE OF THE EQUIPMENT. SEE PLANS FOR LOCATIONS.

9. RE-ANCHOR EXISTING PERIMETER NAILERS @ 16" O/C.: FOR CONCRETE SUBSTRATES USE STAINLESS STEEL "SPIKE" TYPE FASTENERS. FOR STEEL SUBSTRATES USE STAINLESS STEEL SELF-DRILLING, SELF-TAPPING SCREWS.

10. INSTALL NEW WOOD BLOCKING AT THE PERIMETERS AS REQUIRED TO RAISE THE PERIMETER HEIGHT TO THE MAXIMUM HEIGHT OF THE INSULATION, WHERE APPLICABLE. THE TOP OF THE PERIMETER BLOCKING SHALL BE INSTALLED AT A CONSTANT ELEVATION.

11. INSTALL NEW WOOD BLOCKING TO RAISE THE HEIGHT OF EXISTING EXPANSION JOINTS OR FOR NEW EXPANSION JOINTS, WHERE SHOWN ON THESE DRAWINGS.

12. EXISTING CURBS TO BE REUSED ARE TO BE REFASTENED IN ACCORDANCE WITH THE DETAILS PROVIDED. RAISE CURBS IF REQUIRED TO ACHIEVE THE MINIMUM 8" HEIGHT. REFER TO ROOF PLAN FOR ADDITIONAL REQUIREMENTS.

13. FOR CURBS TO BE RAISED, INCLUDE ASSOCIATED MECHANICAL AND ELECTRICAL COSTS, INCLUDING DISCONNECT, EXTEND ELECTRICAL CABLING, RECONNECT.

14. WHERE CURBS ARE DAMAGED OR OTHERWISE NOT SUITABLE FOR REUSE, THEY ARE TO BE REPLACED WITH CURBS HAVING FLORIDA PRODUCT APPROVAL (FPA) OR NOTICE OF ACEPTANCE (NOA). ANCHOR NEW CURBS IN ACCORDANCE WITH THE DETAIL PROVIDED.

15. NEW ROOF INSULATION SHALL PROVIDE AN AVERAGE R-VALUE OF R=25 OR HIGHER UNLESS STATED OTHERWISE HEREIN.

16. PROVIDE NEW INSULATION BOARDS AS REQUIRED HEREIN. INSULATION BOARD SHALL BE INSTALLED WITH STAGGERED JOINTS AND WITHOUT GAPS.

17. INSTALL CRICKETS AT 45 DEGREE ANGLES UNLESS SHOWN OTHERWISE ON THE DRAWINGS.

18. INSTALL NEW COVER BOARD OVER INSULATION. INSTALL WITH STAGGERED JOINTS AND WITHOUT GAPS, NO EXCEPTION.

19. STORED ROOFING MATERIALS SHALL BE PROTECTED FROM WEATHER WITH TARPS. MANUFACTURER'S WRAPPING IS NOT ACCEPTABLE FOR WEATHER PROTECTION. PROVIDE APPROPRIATE PROTECTION BETWEEN THE ROOF MEMBRANE AND PALLETS WHERE PALLETS ARE PLACED ON THE ROOF.

20. CONTRACTOR IS RESPONSIBLE TO PROTECT THE ROOF MEMBRANE AFTER INSTALLATION. PROVIDE TEMPORARY PROTECTION UNDER HEAVY EQUIPMENT, TOOLS, GAS TANKS, SCAFFOLDING RAMPS, POSTS AND BRACES, ETC. TO AVOID DAMAGE TO THE MEMBRANE.

21. **CONTRACTOR ACCEPTANCE: THE REQUIREMENTS ON THESE CONTRACT DOCUMENTS MAY EXCEED THE ROOF SYSTEM MANUFACTURER'S MINIMUM REQUIREMENTS. BY SUBMITTING A BID, THE CONTRACTOR ACCEPTS ALL REQUIREMENTS HEREIN.**

22. **MANUFACTURER ACCEPTANCE: IN ADDITION TO THE ABOVE, THE MANUFACTURER IS REQUIRED TO CERTIFY THEIR INTENT TO WARRANT AND THEIR INTENT TO ACCEPT THE DETAILS AND OTHER REQUIREMENTS OF THE CONTRACT DOCUMENTS. SUCH WRITTEN CERTIFICATION IS TO BE SUBMITTED WITH THE CONTRACTOR'S BID AND COPY PROVIDED WITH THE FIRST PAY APPLICATION.**

23. RAISE ALL SOIL PIPES TO A MINIMUM HEIGHT OF 8" ABOVE THE FINISHED ROOF.

24. EXISTING AND NEW ROOFTOP MECHANICAL EQUIPMENT SHALL BE RE-FASTENED TO THE CURBS WITH NEW STAINLESS STEEL FASTENERS WITH STAINLESS STEEL CAPPED BACKED EPDM WASHERS. REUSE OF EXISTING FASTENERS IS NOT ACCEPTABLE.

25. REPLACE SUPPORTS FOR CONDENSATE LINES, PIPING AND CONDUIT, NEW SUPPORTS TO BE SPACED APPROPRIATELY BASED ON PIPE SIZE. REFER TO THE ROOF ACCESSORIES SPECIFICATION.

NEW METAL WORK

1. EDGE METAL, EXPANSION JOINT COVERS, COUNTER FLASHING, AND OTHER MISCELLANEOUS METAL WORK SHALL BE MILL-FINISHED ALUMINUM.

2. COPING CAPS SHALL BE PRE-FINISHED ALUMINUM, REFER TO THE SPECIFICATION.

3. GRAVEL STOPS, EDGE METAL, AND SKIRT METAL SHALL HAVE A FACE WIDTH OF NO MORE THAN 6". USE SKIRT METAL TO EXTEND THE FLASHING WIDTH BEYOND 6". THIS IS A REQUIREMENT.

4. EDGE METAL SHALL BE INSTALLED WITHOUT EXCESSIVE "OIL CANNING". THE CONTRACTOR SHALL CONSTRUCT A MOCKUP OF EACH DETAIL PRIOR TO FABRICATION. THE MOCKUP SHALL INCLUDE ALL REQUIRED COMPONENTS AND SHALL BECOME PART OF THE FINISHED WORK UPON APPROVAL. THE WORK MAY NOT PROCEED UNTIL MOCKUP IS APPROVED.

5. FILE SMOOTH ALL SHARP EDGES ON METAL WORK.

6. NEW METAL WORK MATERIALS ARE TO BE PROTECTED FROM EXPOSURE TO WATER. STAINED METAL WORK WILL BE REPLACED AT NO COST TO THE OWNER.

7. AFTER COMPLETION OF ALL METAL WORK, THE CONTRACTOR IS TO REMOVE ANY SMUDGES, SMEARS AND MARKS ON EXPOSED SURFACES.

EXISTING METAL DECK

1. UPON DISCOVERY OF DAMAGED OR DETERIORATED METAL DECK, SUBMIT A REQUEST FOR INFORMATION TO PBA DESIGN GROUP. PROVIDE PHOTOS AND DIAGRAM SHOWING THE LIMITS OF DAMAGED DECKING ON A PLAN VIEW.

2. REFER TO THE STRUCTURAL DRAWINGS FOR REQUIREMENTS RELATED TO RE-FASTENING OF EXISTING STEEL ROOF DECKS.

3. STEEL DECKS SHOWING SIGNS OF RUST ARE TO BE COATED UNDER THE BASE BID WITH SHERWIN WILLIAMS DTM OR APPROVED EQUIVALENT. ASSUME A QUANTITY OF 200 SF IN THE BASE BID.

PBA Design Group
2742 JASON ST. TAMPA, FL 33619 www.pbadesigngroup.com

WASTE TO ENERGY FACILITY ROOF REPLACEMENT

PROJECT ADDRESS: 10500 BUCKINGHAM ROAD, FORT MYERS, FL 33905
CONSTRUCTION DOCUMENTS

ISSUE RECORD:

STATE OF FLORIDA
RALEIGH J. BECKHAM
AR97270
Raleigh J. Beckham
Digitally signed by Raleigh J. Beckham
Date: 2024.01.22 13:01:37 -05'00'

No.	Description	Date

SHEET NO.

A1.1

Date JANUARY 24, 2024

NOTES AND SPECIFICATIONS

Scale: AS NOTED

SPECIAL NOTES

1. **FOR BASE SCOPE AND RESTORATION WORK, THE FOLLOWING MUST BE SUBCONTRACTED TO COMPANIES WHO SPECIALIZE IN THE TRADE, AND WHO HAVE AN ESTABLISHED REPUTATION FOR QUALITY WORKMANSHIP, AND WHO HAVE BEEN SPECIALIZING IN SUCH WORK FOR AT LEAST 5 YEARS, NO EXCEPTIONS. THE SPECIALTY WORK IS AS FOLLOWS, AS APPLICABLE TO THE PROJECT:**

   a. **CONCRETE PAVEMENT**
   b. **ASPHALT PAVEMENT**
   c. **LANDSCAPING & IRRIGATION, INCL SOD**
   d. **SITEWORK**
   e. **METAL DETECTION (GROUNDS CLEANING)**
   f. **COATINGS AND SEALANTS**
   g. **CONCRETE AND MASONRY**
   h. **BUILDING FINISHES**
   i. **HVAC**
   j. **PLUMBING**
   k. **ELECTRICAL, INCL LOW VOLTAGE SYSTEMS**
   l. **LIGHTNING PROTECTION**

2. **THE CONTRACTOR IS REQUIRED TO UNDERGO SITE SAFETY AND SAFETY RULES TRAINING WITH THE ON-SITE FACILITY MANAGEMENT COMPANY, COVANTA. THIS PROJECT REQUIRES SAFETY CERTIFICATION.**

3. **WELDING WORK REQUIRES COORDINATION WITH AND APPROVAL BY THE ON-SITE FACILITY MANAGER WHO WILL EVALUATE FIRE RISKS DUE TO FLAMMABLE MATERIALS WITHIN THE BUILDINGS. THE CONTRACTOR SHALL SCHEDULE A MEETING SPECIFICALLY FOR THE PURPOSE OF COORDINATION WITH THE FACILITY MANAGER BEFORE STARTING ANY WELDING WORK.**

GROUNDS CLEANING

1. THE CONTRACTOR SHALL PERFORM DAILY SWEEPS OF ALL TURF AND PAVED AREAS AFFECTED BY CONSTRUCTION, INCLUDING STAGING, STORAGE AND PARKING AREAS. EQUIPMENT SHALL BE A MAGNETIZED METAL DETECTOR CAPABLE OF DETECTING STEEL, ALUMINUM AND STAINLESS STEEL.

2. THE METAL DETECTOR SHALL BE EQUAL TO MINELAB EQUINOX 800. SUBMITTAL OF PROPOSED EQUIMENT IS REQUIRED.

3. AT THE END OF THE PROJECT THE CONTRACTOR SHALL CONDUCT A MINIMUM OF TWO SWEEPS BY AN **INDEPENDENT** FIRM SPECIALIZING IN METAL DETECTION:

   SEMI-FINAL SWEEP: TO BE PERFORMED PRIOR TO REQUESTING A SUBSTANTIAL COMPLETION INSPECTION.
   FINAL SWEEP: TO BE PERFORMED AFTER ALL PUNCH LIST WORK IS COMPLETE.

4. SWEEPS SHALL BE REPEATED UNTIL NO METAL DEBRIS IS FOUND.

WEEKLY PROGRESS REPORTS

1. CONTRACTOR SHALL PROVIDE WEEKLY REPORTS TO PBA DESIGN GROUP, INCLUDING PHOTOS SHOWING THE WEEK'S PROGRESS. COPIES OF THE WEEKLY REPORTS ARE TO BE SUBMITTED WITH EACH PAY APPLICATION FOR THE PERIOD FOR WHICH PAYMENT IS REQUESTED.

RESTORATION OF DAMAGE CAUSED BY CONSTRUCTION OPERATIONS

1. DOCUMENT EXISTING DAMAGE WITH PHOTGRAPHS, INCLUDING DAMAGED PAVEMENT, SIDEWALKS, EXISTING STRUCTURES AND SITE FEATURES, SPECIFICALLY CAPTURING EXISTING DAMAGE WHICH MAY LATER BE ATTRIBUTED TO CONSTRUCTION ACTIVITIES. SUBMIT PHOTOGRAPHS A MINIMUM OF 10 DAYS PRIOR TO MOBILIZING ON SITE.

2. REMEDIATE ALL AREAS AFFECTED BY CONSTRUCTION OPERATIONS. REPAIR OR REPLACE DAMAGED PAVEMENT, SIDEWALKS, BUILDING FINISHES, TURF, LANDSCAPING, FENCING, CURBS, ETC., SO THAT THE END RESULT IS "LIKE NEW" CONSTRUCTION. THE PHOTOS REQUIRED IN THE PREVIOUS ITEM WILL BE THE BASIS FOR DETERMINING THE CONTRACTOR'S RESPONSIBILITY.

3. RESTORATION WORK MUST BE COMPLETE AND READY FOR INSPECTION AT THE SUBSTANTIAL COMPLETION INSPECTION.

4. CONCRETE PAVEMENT: REPLACE CRACKED, BROKEN & STAINED CONCRETE WHICH HAS BEEN DAMAGED BY CONSTRUCTION. REPLACEMENT AREA SHALL EXTEND FROM EXISTING JOINT TO EXISTING JOINT. PAVEMENT IS TO BE 5" THICK WITH WELDED WIRE FABRIC & TURNED DOWN EDGES. PROVIDE 1.25" DEEP TOOLED CONTROL JOINTS AT 8' SPACING MAXIMUM. PROVIDE ½" DIAMETER REINFORCING STEEL DOWELS @ 12" O/C. AT THE JUNCTION OF EXISTING AND NEW CONCRETE PAVEMENT.

5. ASPHALT PAVEMENT: REMOVE AND REPLACE ASPHALT PAVEMENT AND BASE MATERIAL WHERE PAVEMENT IS DAMAGED BY CONSTRUCTION OPERATIONS. PLACE, AND COMPACT NEW BASE MATERIAL SUFFICIENTLY TO AVOID SETTLING.

6. LANDSCAPING: REPLACE DAMAGED LANDSCAPING MATERIALS IN LIKE KIND AND SIZE.

7. TURF: PROVIDE NEW SOD WHERE DAMAGED BY CONSTRUCTION OPERATIONS. REMOVE DAMAGED TURF AND TOPSOIL TO THE EXTENT THAT THE TOP OF NEW SOD WILL BE LEVEL WITH SURROUNDING UNDISTURBED TURF. REMOVE ALL DEBRIS AND RAKE. INSTALL FIRST QUALITY ARGENTINE BAHIA SOD WHICH IS GREEN AND THRIVING WHEN INSTALLED. USE FULL SIZE PIECES ONLY, LAID TIGHT. WATER AS NEEDED SO THAT REPLACEMENT TURF IS HEALTHY AT SUBSTANTIAL COMPLETION.

UNDERGROUND UTILITIES

1. UNDERGROUND SYSTEMS ARE OPERATIONAL AT THE TIME OF BID. THE CONTRACTOR IS 100% RESPONSIBLE FOR LOCATING AND PROTECTING UNDERGROUND UTILITIES, STRUCTURES, STORMWATER FACILITIES, IRRIGATION SYSTEMS, ELECTRICAL CONDUIT AND OTHER SYSTEMS DURING CONSTRUCTION.

FENCING

1. THE CONTRACTOR IS REQUIRED TO PROVIDE A TEMPORARY 6 FOOT HIGH CHAIN LINK FENCE WITH LOCKABLE GATE(S) TO SECURE EQUIPMENT AND MATERIALS STORED ON SITE.

2. KEEP CONTRACTOR STAGING/STORAGE AREAS FREE OF DEBRIS DURING CONSTRUCTION

3. TEMPORARY FENCES AND GATES ARE TO BE REMOVED AND GROUNDS ARE TO BE RESTORED PRIOR TO THE SUBSTANTIAL COMPLETION INSPECTION TO ALLOW FOR INSPECTION OF THE RESTORATION WORK.

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WASTE TO ENERGY FACILITY
ROOF REPLACEMENT

PROJECT ADDRESS: 10500 BUCKINGHAM ROAD, FORT MYERS, FL 33905
CONSTRUCTION DOCUMENTS

ISSUE RECORD:

STATE OF FLORIDA
RALEIGH J. BECKHAM
AR97270
Raleigh J Beckham
Digitally signed by Raleigh J Beckham
Date: 2024.01.22 17:09:23 -05'00'

No.	Description	Date

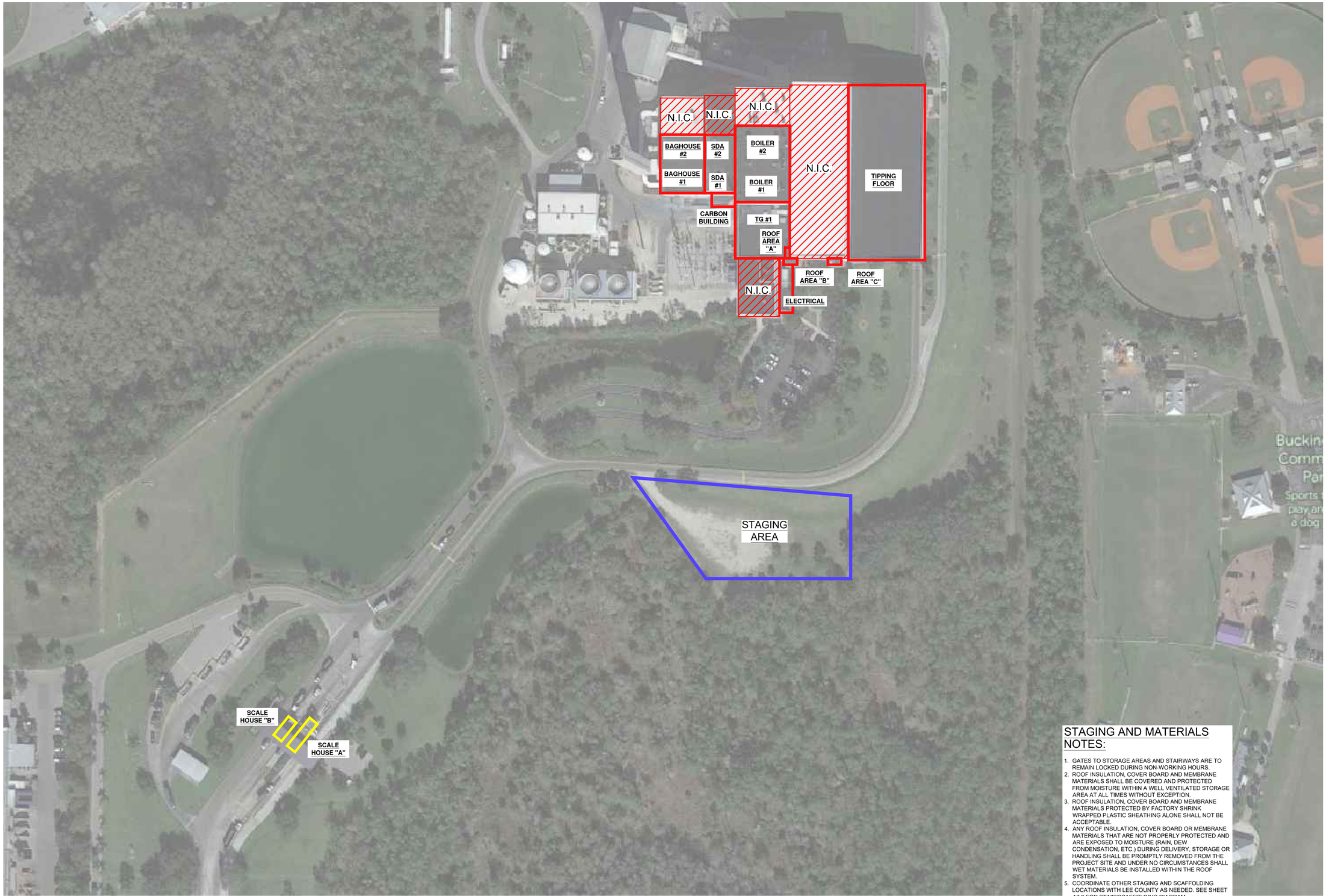
SHEET NO.

A1.2

Date JANUARY 24, 2024

NOTES AND SPECIFICATIONS

Scale: AS NOTED



STAGING AND MATERIALS NOTES:

1. GATES TO STORAGE AREAS AND STAIRWAYS ARE TO REMAIN LOCKED DURING NON-WORKING HOURS.
2. ROOF INSULATION, COVER BOARD AND MEMBRANE MATERIALS SHALL BE COVERED AND PROTECTED FROM MOISTURE WITHIN A WELL VENTILATED STORAGE AREA AT ALL TIMES WITHOUT EXCEPTION.
3. ROOF INSULATION, COVER BOARD AND MEMBRANE MATERIALS PROTECTED BY FACTORY SHRINK WRAPPED PLASTIC SHEATHING ALONE SHALL NOT BE ACCEPTABLE.
4. ANY ROOF INSULATION, COVER BOARD OR MEMBRANE MATERIALS THAT ARE NOT PROPERLY PROTECTED AND ARE EXPOSED TO MOISTURE (RAIN, DEW CONDENSATION, ETC.) DURING DELIVERY, STORAGE OR HANDLING SHALL BE PROMPTLY REMOVED FROM THE PROJECT SITE AND UNDER NO CIRCUMSTANCES SHALL WET MATERIALS BE INSTALLED WITHIN THE ROOF SYSTEM.
5. COORDINATE OTHER STAGING AND SCAFFOLDING LOCATIONS WITH LEE COUNTY AS NEEDED. SEE SHEET A7.9 FOR STAIR/SCAFFOLDING DIAGRAM.

AERIAL PHOTO OF SITE AND STAGING

Scale: N.T.S.

N

LEGEND:

N.I.C. NOT INCLUDED.

REFER TO SHEET A8.1 & A8.2 FOR SCALE HOUSE ELEVATIONS.

SELECTED BUILDING(S) TO BE RE-ROOFED.

STAGING AREA.

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WASTE TO ENERGY FACILITY ROOF REPLACEMENT

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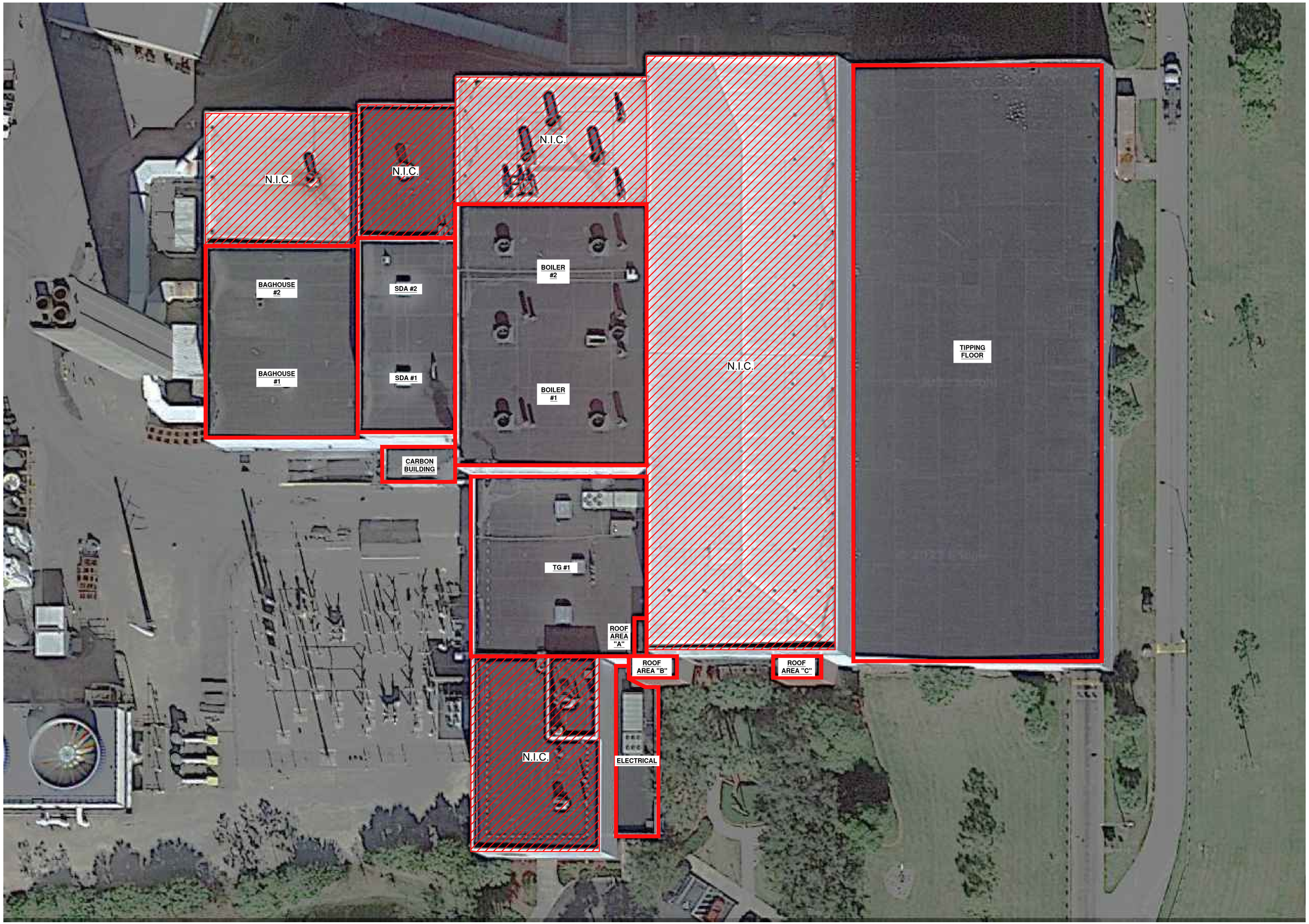
Date JANUARY 24, 2024

AERIAL PHOTO OF SITE AND STAGING

Scale: AS NOTED



AERIAL PHOTO OF WASTE FACILITY

Scale: N.T.S.

N

LEGEND:

N.I.C. - NOT INCLUDED.

SELECTED BUILDING(S) TO BE RE-ROOFED.

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WASTE TO ENERGY FACILITY ROOF REPLACEMENT

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SHEET NO.

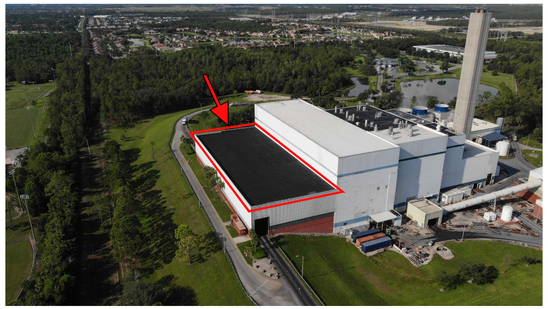
A2.2

Date JANUARY 24, 2024

AERIAL PHOTO OF WASTE FACILITY

Scale: AS NOTED

1 AERIAL VIEW OF EXISTING FACILTIY AREA.



2 TIPPING FLOOR - EXISTING ROOF:

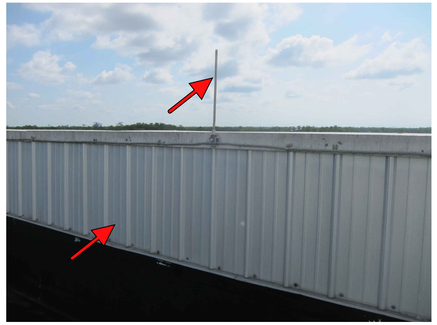
3 TIPPING FLOOR EXISTING ROOF:

4 TIPPING FLOOR EXISTING ROOF:

5 TIPPING FLOOR:
EXISTING METAL SIDING PANELS AT ELEVATION CHANGE.

6 TIPPING FLOOR:
EXISTING COUNTER-FLASHING AND METAL SIDING PANEL AT ELEVATION CHANGE.

7 TIPPING FLOOR:
ROOF CORE OF EXISTING ROOF SYSTEM.
EXAMPLE OF AN AREA OF STEEL DECK THAT REQUIRES CLEANING AND PAINTING.



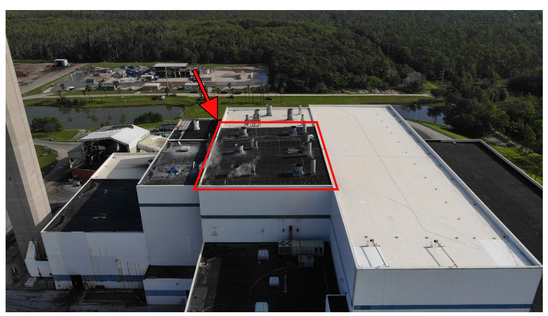
8 TIPPING FLOOR:
EXISTING METAL SIDING PANEL AND LIGHTING PROTECTION SYSTEM.

9 TIPPING FLOOR:
EXISTING ROOF DRAIN, OVERFLOW SCUPPER AND PARAPET WALL.

10 TIPPING FLOOR:
EXISTING ROOF DRAIN AND OVERFLOW SCUPPER.

11 TIPPING FLOOR:
EXISTING ROOF HATCH.

12 TIPPING FLOOR:
EXISTING ROOF HATCH AND LADDER.



13 BOILER #1 - EXISTING ROOF:

14 BOILER #1 & #2:
EXISTING ROOF HATCH.

15 BOILER #1 & #2:
ROOF CORE OF EXISTING ROOF SYSTEM.

16 BOILER #1 & #2:
EXISTING CONDITIONS OF PENETRATIONS, EQUIPMENT, CONDUIT AND CONDENSATE LINES.

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WASTE TO ENERGY FACILITY
ROOF REPLACEMENT

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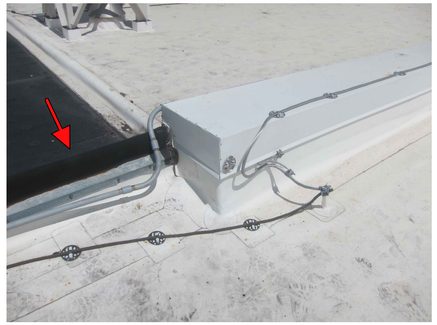
A2.3

Date JANUARY 24, 2024

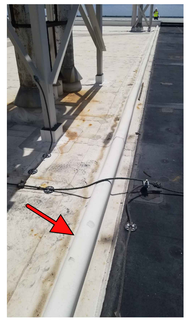
PHOTOGRAPHS OF EXISTING CONDITIONS

Scale: AS NOTED



1 BOILER #1 & #2:
EXISTING EXPANSION JOINT AT INTERSECTION.

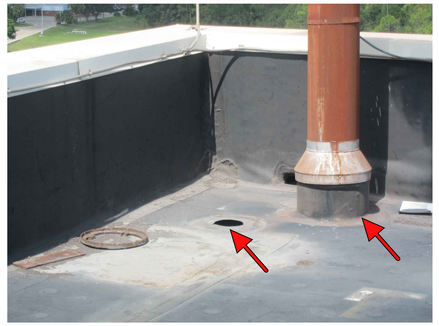
2 BOILER #1 & #2:
EXISTING CONDITIONS OF PENETRATIONS, STACKS, EQUIPMENT AND EXPANSION JOINT.



3 BOILER #1 & #2:
EXISTING EXPANSION JOINT.

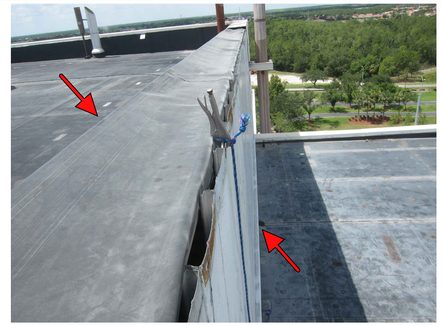
4 BOILER #1 & #2:
EXISTING EXPANSION JOINT AT PARAPET INTERSECTION.

5 BOILER #1 & #2:
EXISTING ROOF DRAIN, OVERFLOW SCUPPER, EXPANSION JOINT AND CONDENSATE LINE.



6 BOILER #1 & #2:
EXISTING ROOF DRAIN, OVERFLOW SCUPPER AND GAS FLUE.

7 BOILER #1 & #2:
EXISTING STACKS.



8 BOILER #1 & #2:
EXISTING PARAPET WALL AND METAL SIDING PANEL. MISSING COPING CAP.

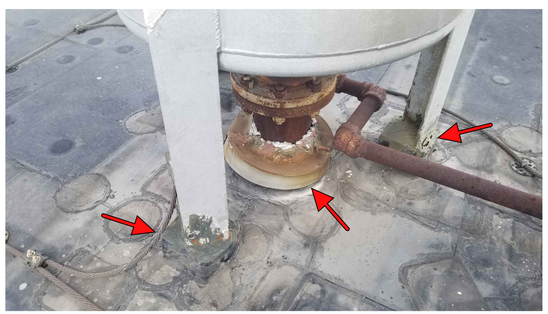
9 BOILER #1 & #2:
EXISTING ABANDONED SUPPORT BRACKET OVER PARAPET WALL.

10 BOILER #1 & #2:
EXISTING PARAPET WALL.

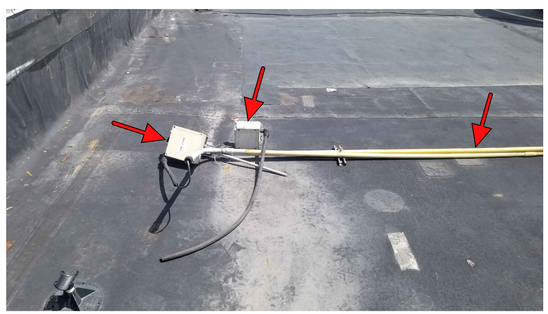
11 BOILER #1 & #2:
EXISITNG ROOF DRAIN, OVERFLOW SCUPPER AND LIGHTING PROTECTION TERMINAL.

12 BOILER #1 & #2:
CLOSE UP AT EXISTING EXHAUST FAN CURB.

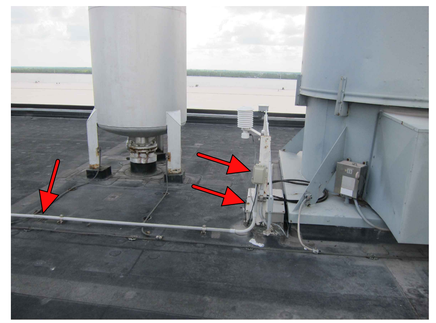
13 BOILER #1 & #2:
EXISTING PITCH PAN AND PENETRATIONS.



14 BOILER #1 & #2:
EXISTING PITCH PAN AND PENETRATIONS.



15 BOILER #1 & #2:
ABANDONED COMMUNICATION / ELECTRICAL BOX AND CONDUIT LINES.



16 BOILER #1 & #2:
ELECTRICAL BOX / OULET AND CONDUIT LINES.

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WASTE TO ENERGY FACILITY
ROOF REPLACEMENT

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CONSTRUCTION DOCUMENTS

ISSUE RECORD:

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AR97270

Raleigh J. Beckham
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No.	Description	Date

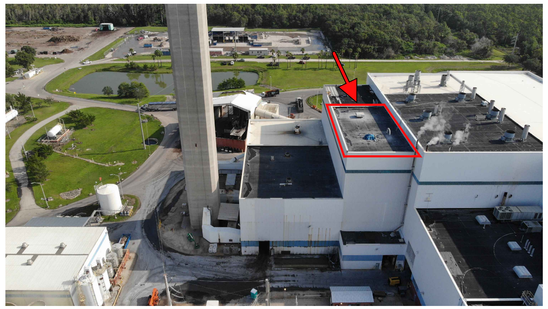
SHEET NO.
A2.4

Date JANUARY 24, 2024

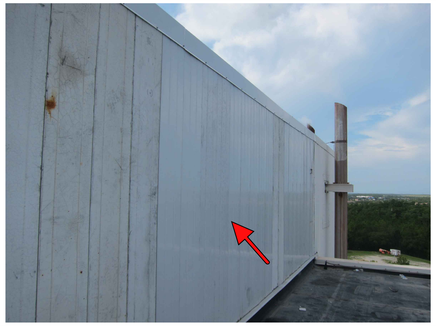
PHOTOGRAPHS OF EXISTING CONDITIONS

Scale: AS NOTED

1 BOILER #1 & #2:
ELECTRICAL BOX, AND CONDUIT LINES AND SUPPORTS.



2 SDA #1 & #2 - EXISTING ROOF.



3 SDA #1 & #2:
EXISTING METAL SIDING PANEL.

4 SDA #1 & #2:
EXISTING PENETRATION.

5 SDA #1 & #2:
EXISTING ROOF HATCH.

6 SDA #1 & #2:
EXISTING ROOF DRAIN, OVERFLOW SCUPPER AND METAL COPING AT PARAPET WALL.

7 SDA #1 & #2:
EXISTING ROOF DRAIN, OVERFLOW SCUPPER, METAL COPING AT PARAPET WALL AND EXPANSION JOINT.

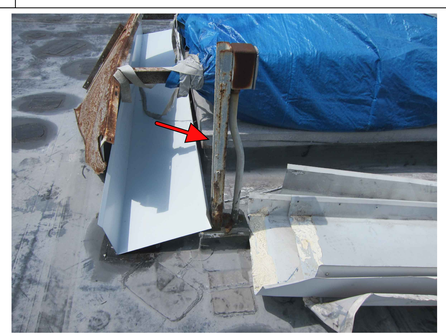
8 SDA #1 & #2:
EXISTING EXPANSION JOINT AND METAL SIDING PANELS.

9 SDA #1 & #2:
EXISTING EXPANSION JOINT AT WALL.

10 SDA #1 & #2:
EXISTING COUNTER-FLASHING.

11 SDA #1 & #2:
EXISTING COUNTER-FLASHING.

12 SDA #1 & #2:
ROOF CORE OF EXISTING ROOF SYSTEM.



13 SDA #1 & #2:
EXISTING ROOF PENETRATION (VERTICAL STEEL CHANNEL) WITH PITCH PAN.

14 SDA #1 & #2:
EXISTING EXHAUST FAN.

15 SDA #1 & #2:
EXISTING PUNCTURE IN ROOF.

16 SDA #1 & #2:
CRACKING OF PREVIOUS REPAIR.

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WASTE TO ENERGY FACILITY
ROOF REPLACEMENT

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STATE OF FLORIDA
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REGISTERED ARCHITECT

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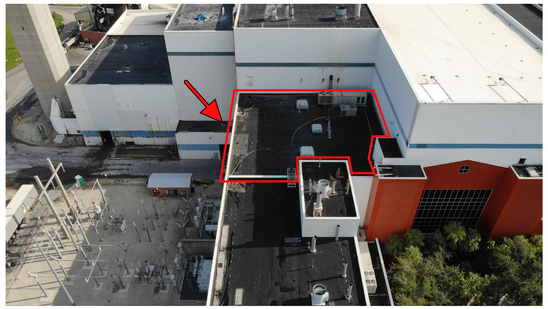
SHEET NO.
A2.5

Date JANUARY 24, 2024

PHOTOGRAPHS OF EXISTING CONDITIONS

Scale: AS NOTED



1 TG #1 - EXISTING ROOF:
AERIAL VIEW OF EXISTING ROOF.

2 TG #1:
EXISTING CONDITIONS OF PENETRATIONS AND EQUIPMENT.

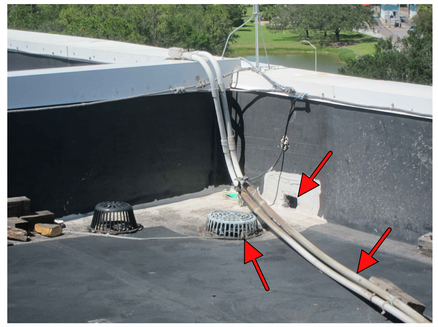
3 TG #1:
EXISTING CONDITIONS OF PENETRATIONS AND EQUIPMENT.

4 TG #1:
EXISTING CONDITIONS OF PENETRATIONS AND EQUIPMENT.

5 TG #1:
ROOF CORE OF EXISTING ROOF SYSTEM.

6 TG #1:
EXISTING CONDITIONS OF PENETRATIONS AND EQUIPMENT.

7 TG #1:
EXISTING LADDER OVER PARAPET WALL.

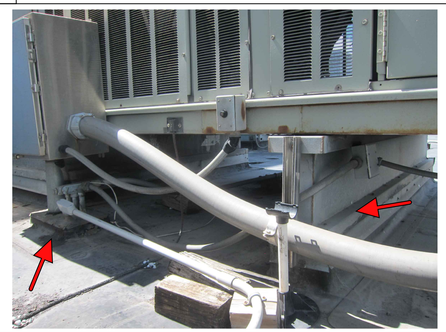


8 TG #1:
EXISTING ROOF DRAIN, OVERFLOW SCUPPER AND CONDUIT LINES.

9 TG #1:
EXISTING METAL PANEL SIDING AT WALL AND CONDUIT LINES.

10 TG #1:
EXISTING COUNTER-FLASHING CONDITION BELOW METAL PANEL SIDING.

11 TG #1:
EXISTING STRUCTURAL STEEL PENETRATIONS.



12 TG #1:
EXISTING CURB BELOW MECHANICAL EQUIPMENT AND PITCH PAN.

13 TG #1:
EXISTING PITCH PAN WITH ELECTRICAL SERVICE.

14 TG #1:
EXISTING CONDITION AT INNER CORNER.

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WASTE TO ENERGY FACILITY
ROOF REPLACEMENT

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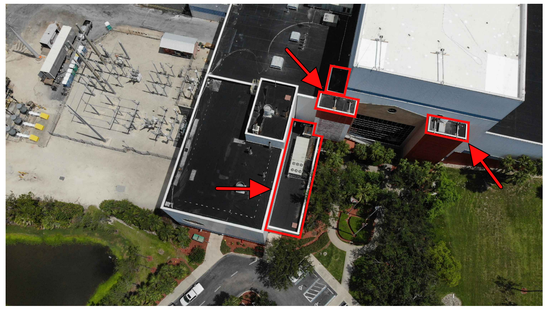
A2.6

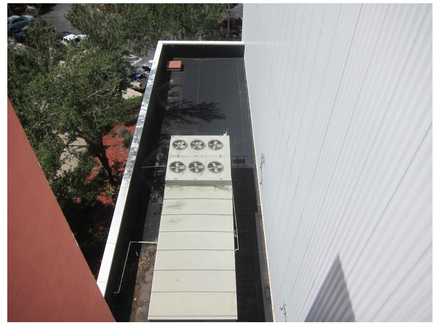
Date JANUARY 24, 2024

PHOTOGRAPHS OF EXISTING CONDITIONS

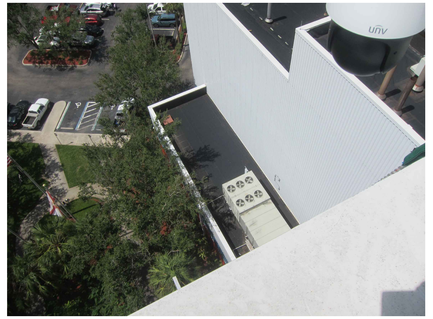
Scale: AS NOTED



1 AERIAL VIEW OF EXISTING ROOF AT ELECTRICAL, "A", "B" AND "C".

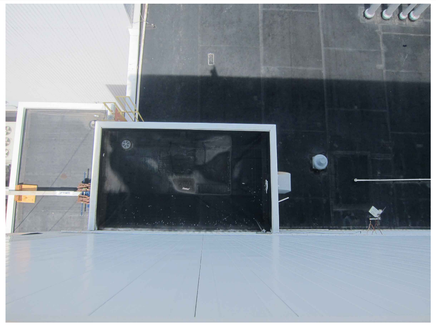


2 VIEW OF ROOF AT ELECTRICAL BUILDING.

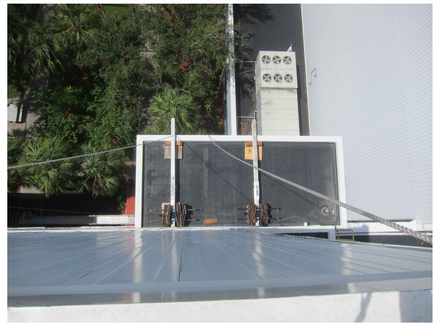


3 VIEW OF ROOF AT ELECTRICAL BUILDING.

4 VIEW OF ROOF AT ELECTRICAL BUILDING.



5 VIEW OF ROOF AT AREA "A".



6 VIEW OF ROOF AT AREA "B".

7 VIEW OF ROOF AT AREA "C".

8 VIEW OF ROOF AT CARBON BUILDING.

9

10

11

12

13

14

15

16

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WASTE TO ENERGY FACILITY
ROOF REPLACEMENT

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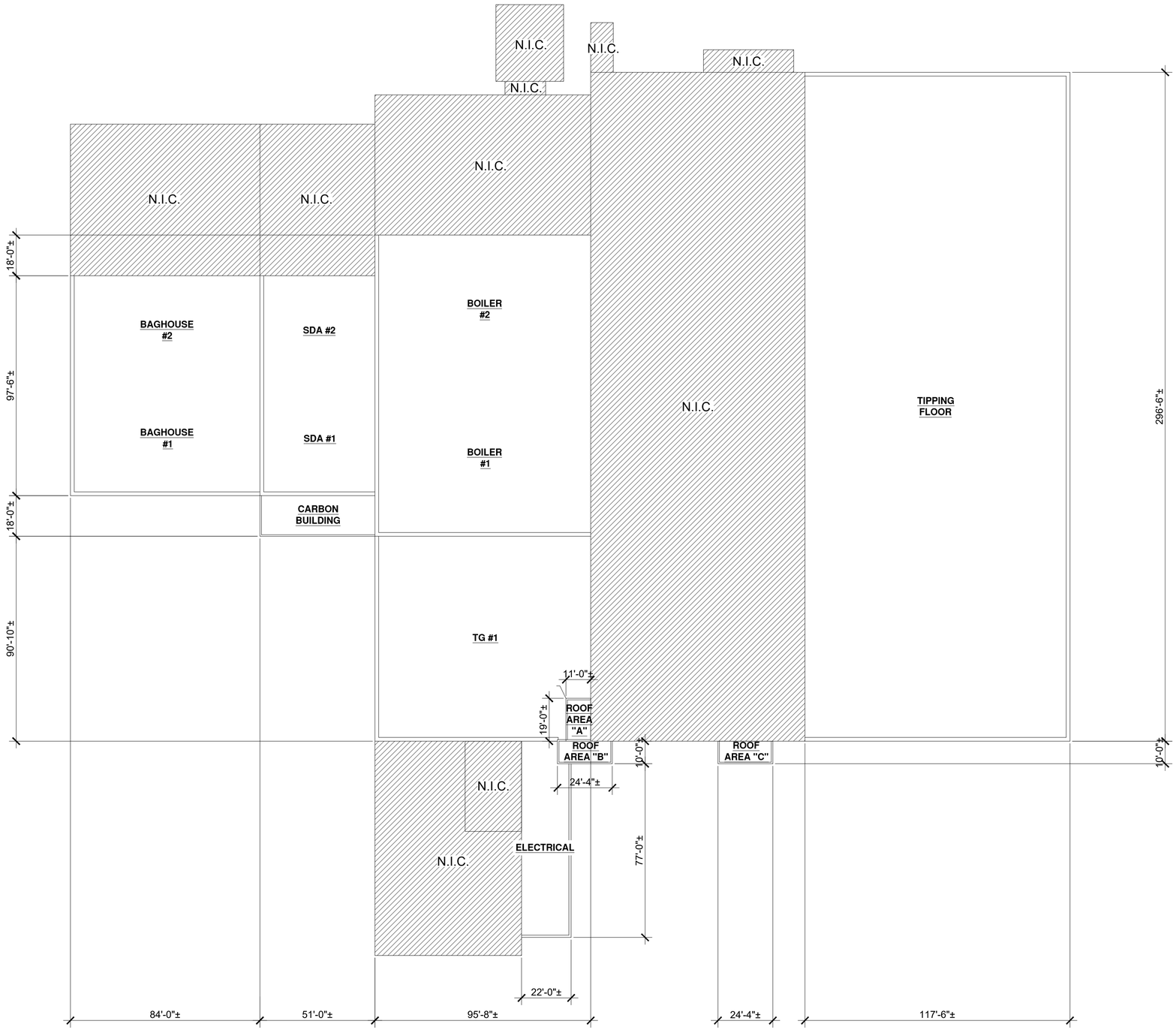
Date JANUARY 24, 2024

PHOTOGRAPHS OF EXISTING CONDITIONS

Scale: AS NOTED

GENERAL NOTES:

1. ALL PLANS ARE NOT TO SCALE UNLESS NOTED OTHERWISE.
2. DIMENSIONS SHOWN ARE APPROXIMATE. CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS PRIOR TO BID.



OVERALL ROOF DIMENSION PLAN

Scale: N.T.S.

N

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WASTE TO ENERGY FACILITY ROOF REPLACEMENT

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Raleigh J. Beckham Digitally signed by Raleigh J. Beckham Date: 2024.01.22 09:33:10 -05'00'

No.	Description	Date

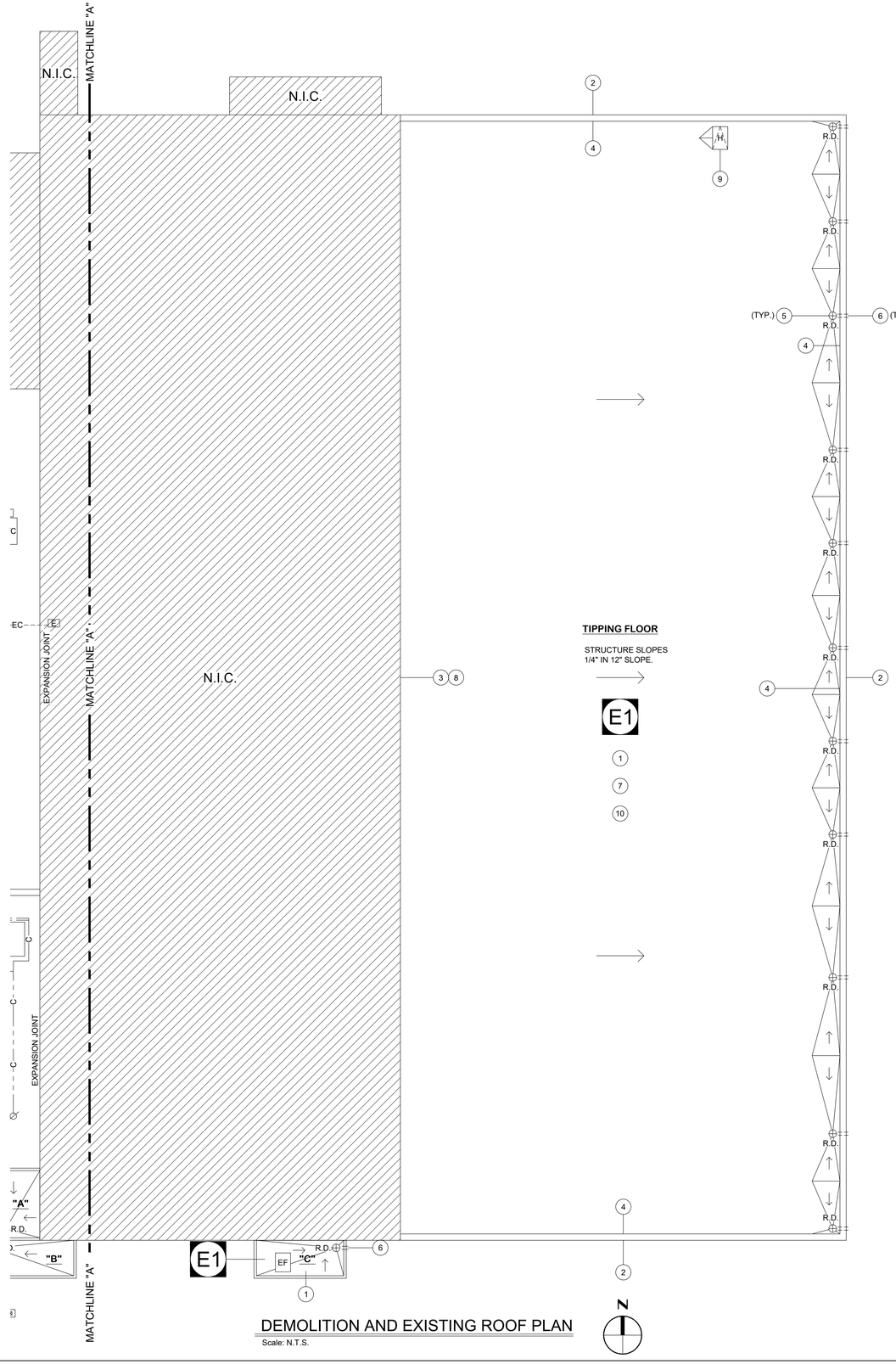
SHEET NO.

A3.1

Date JANUARY 24, 2024

OVERALL ROOF DIMENSION PLAN

Scale: AS NOTED

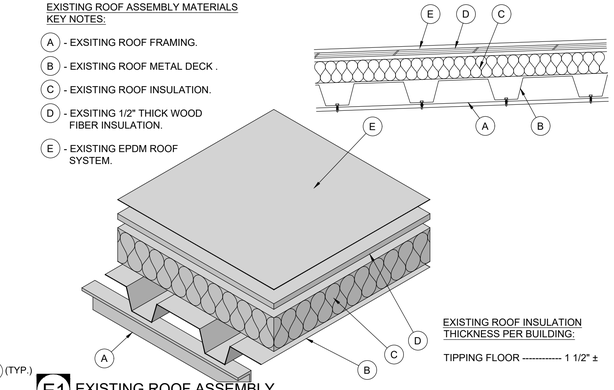


DEMOLITION AND EXISTING ROOF PLAN

Scale: N.T.S.

EXISTING ROOF ASSEMBLY MATERIALS KEY NOTES:

- (A) - EXSITING ROOF FRAMING.
- (B) - EXISTING ROOF METAL DECK .
- (C) - EXISTING ROOF INSULATION.
- (D) - EXSITING 1/2" THICK WOOD FIBER INSULATION.
- (E) - EXISTING EPDM ROOF SYSTEM.



E1 EXISTING ROOF ASSEMBLY

EXISTING ROOF INSULATION THICKNESS PER BUILDING:

TIPPING FLOOR ---------- 1 1/2" ±

GENERAL NOTES:

1. ALL PLANS ARE NOT TO SCALE UNLESS NOTED OTHERWISE.
2. DIMENSIONS SHOWN ARE APPROXIMATE. CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS PRIOR TO BID.
3. ROOF PENETRATIONS, EQUIPMENT, QUANTITIES AND LOCATIONS ARE APPROXIMATE FIELD VERIFY PRIOR TO BID.
4. DEMOLITION KEYNOTES ON ROOF PLANS REFER TO LIMITED TYPICAL DETAILS AND ARE NOT INTENDED TO ENUMERATE ALL DETAILS OF EACH TYPE.

DEMOLITION SCOPE:

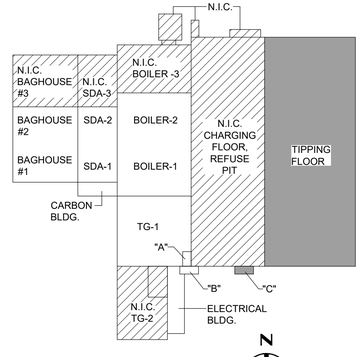
1. REMOVE LIGHTNING PROTECTION SYSTEM (L.P.S.) AND RETAIN FOR REINSTALLATION.
2. ALL HVAC AND ELECTRICAL WORK REQUIRED TO PERFORM THE WORK OF THIS PROJECT SHALL BE INCLUDED IN THE BID.
3. DISCONNECT ALL EXISTING SERVICE CONNECTIONS (ELECTRICAL, WATER, ETC.)

DEMOLITION PLAN KEY NOTES:

1. REMOVE EXISTING ROOFING SYSTEM AND INSULATION TO EXISTING STEEL DECK. EXISTING STEEL DECK TO REMAIN. SEE EXISTING ROOF ASSEMBLY DETAIL THIS SHEET.
2. TYPICAL: REMOVE ALL EXISTING EDGE METAL, METAL COPING, ETC.
3. TYPICAL: REMOVE EXISTING METAL COUNTER-FLASHING, TERMINATION BARS, ETC.
4. REMOVE METAL SIDING FROM THE ROOF SIDE OF THE PARAPET WALL.
5. REMOVE ALL ROOF DRAINS, DOMES, BOWLS AND ALL HARDWARE ASSOCIATED.
6. TYPICAL: REMOVE ALL OVERFLOW METAL SCUPPERS.
7. TYPICAL: REMOVE ALL EXISTING EPDM BOOTS, ASPHALT, LIQUID FLASHING MATERIALS FROM PENETRATIONS (STEEL, ALUMINUM, GALVANIZED, PVC PIPES AND LIGHTNING PROTECTION SYSTEM (L.P.S.) RODS) CLEAN AND PREPARE SURFACES IN ACCORDANCE TO MANUFACTURER'S INSTRUCTIONS.
8. UNFASTEN BOTTOM OF METAL SIDING AS NEEDED. REFER TO NEW ROOF CONSTRUCTION PLAN AND DETAILS.
9. REMOVE EXISTING ROOF HATCH AND RETAIN.
10. REMOVE EXISTING "NOTICE" DECALS AND RETAIN.

LEGEND:

- (X) DESIGNATED ROOF ASSEMBLY
- SLOPE
- H ROOF HATCH
- R.D. ROOF DRAIN
- EF EXHAUST FAN
- OVER FLOW SCUPPER
- N.I.C. NOT INCLUDED



KEY PLAN

PBA Design Group
2742 JASON ST. TAMPA, FL 33619 www.pbadesigngroup.com

WASTE TO ENERGY FACILITY ROOF REPLACEMENT

PROJECT ADDRESS: 10500 BUCKINGHAM ROAD, FORT MYERS, FL 33905
CONSTRUCTION DOCUMENTS

ISSUE RECORD:

STATE OF FLORIDA — RALEIGH J. BECKHAM — AR97270

Raleigh J. Beckham — Digitally signed by Raleigh J. Beckham Date: 2024.01.22 11:15:19 -05'00'

No.	Description	Date

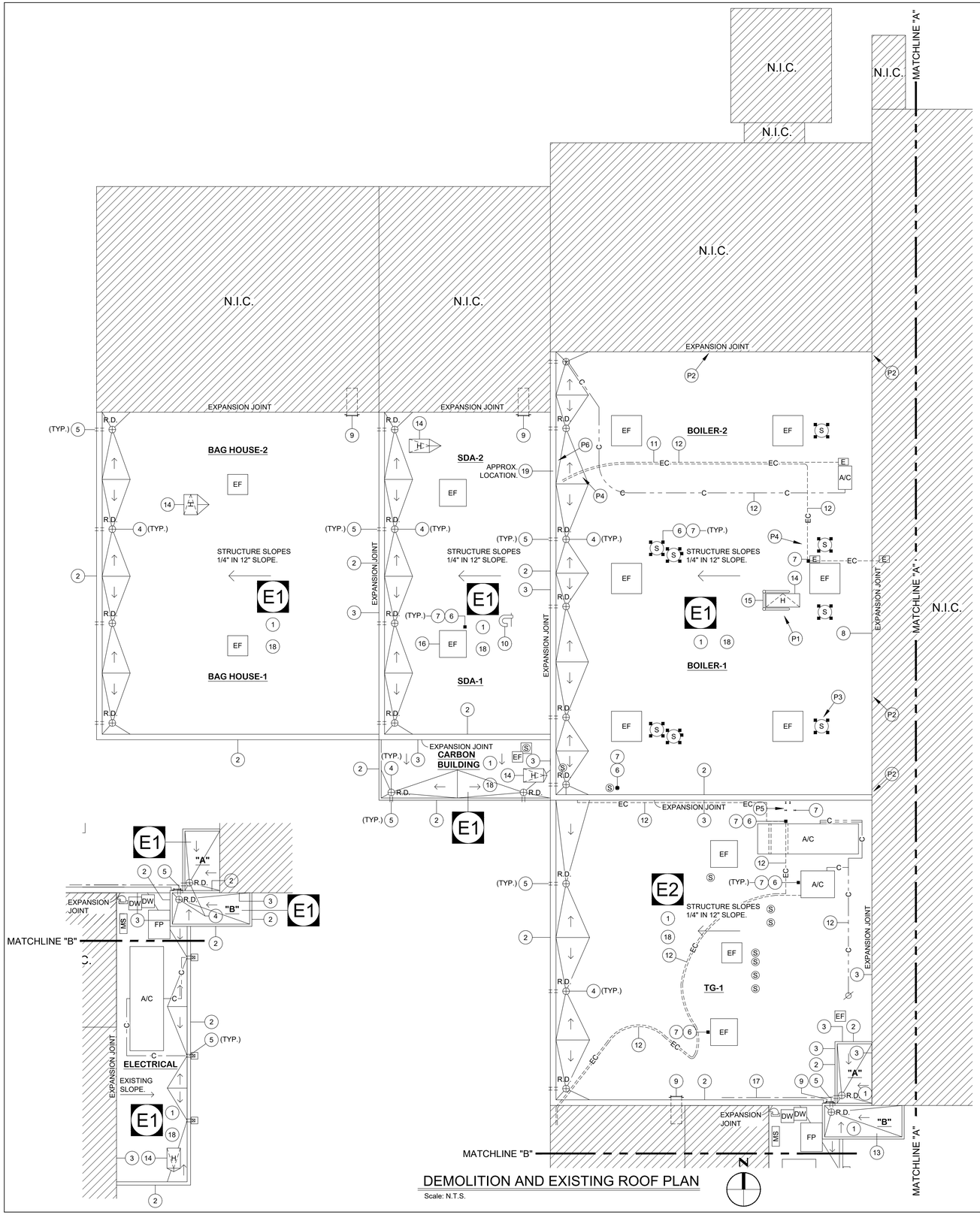
SHEET NO.

A4.1

Date JANUARY 24, 2024

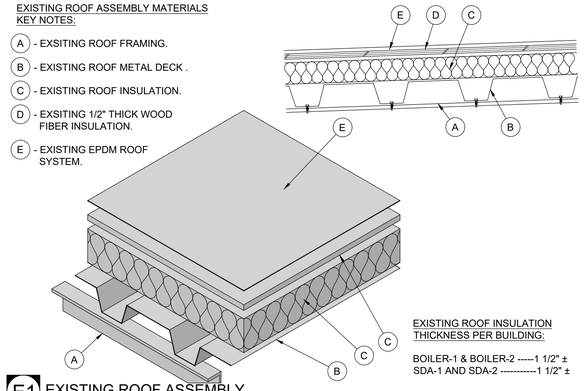
TIPPING FLOOR & ROOF "C" DEMOLITION AND EXSITING ROOF PLAN

Scale: AS NOTED



EXISTING ROOF ASSEMBLY MATERIALS KEY NOTES:

- (A) - EXSITING ROOF FRAMING.
- (B) - EXISTING ROOF METAL DECK .
- (C) - EXISTING ROOF INSULATION.
- (D) - EXSITING 1/2" THICK WOOD FIBER INSULATION.
- (E) - EXISTING EPDM ROOF SYSTEM.



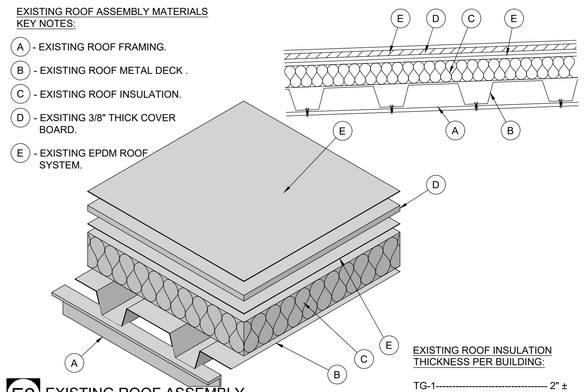
EXISTING ROOF INSULATION THICKNESS PER BUILDING:

BOILER-1 & BOILER-2 -----1 1/2" ±
SDA-1 AND SDA-2 ----------1 1/2" ±

E1 EXISTING ROOF ASSEMBLY

EXISTING ROOF ASSEMBLY MATERIALS KEY NOTES:

- (A) - EXISTING ROOF FRAMING.
- (B) - EXISTING ROOF METAL DECK .
- (C) - EXISTING ROOF INSULATION.
- (D) - EXSITING 3/8" THICK COVER BOARD.
- (E) - EXISTING EPDM ROOF SYSTEM.



EXISTING ROOF INSULATION THICKNESS PER BUILDING:

TG-1---------- 2" ±

E2 EXISTING ROOF ASSEMBLY

PHOTOGRAPH REFERENCE PLAN KEY NOTES:

- (P1) REFER TO PHOTO 14/A2.3
- (P2) REFER TO PHOTO 1, 2, 3 AND 4/A2.4
- (P3) REFER TO PHOTO 13 AND 14/A2.4
- (P4) REFER TO PHOTO 15 AND 16/A2.4
- (P5) REFER TO PHOTO 11/A2.6
- (P6) REFER TO PHOTO 9/A2.4

GENERAL NOTES:

1. ALL PLANS ARE NOT TO SCALE UNLESS NOTED OTHERWISE.
2. DIMENSIONS SHOWN ARE APPROXIMATE. CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS PRIOR TO BID.
3. ROOF PENETRATIONS, EQUIPMENT, QUANTITIES AND LOCATIONS ARE APPROXIMATE FIELD VERIFY PRIOR TO BID.
4. DEMOLITION KEYNOTES ON ROOF PLANS REFER TO LIMITED TYPICAL DETAILS AND ARE NOT INTENDED TO ENUMERATE ALL DETAILS OF EACH TYPE.

DEMOLITION SCOPE:

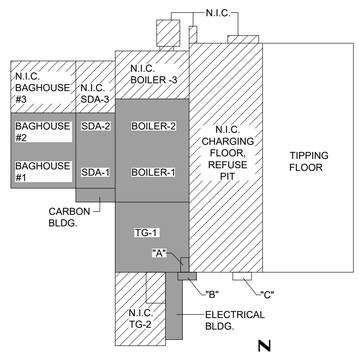
1. REMOVE LIGHTNING PROTECTION SYSTEM (L.P.S.) AND RETAIN FOR REINSTALLATION.
2. ALL HVAC AND ELECTRICAL WORK REQUIRED TO PERFORM THE WORK OF THIS PROJECT SHALL BE INCLUDED IN THE BID.
3. DISCONNECT ALL EXISTING SERVICE CONNECTIONS (ELECTRICAL, WATER, ETC.)
4. REMOVE ALL WOOD BLOCKING CONDENSATE AND ELECTRICAL LINE SUPPORTS.

DEMOLITION PLAN KEY NOTES:

1. REMOVE EXISTING ROOFING SYSTEM AND INSULATION TO EXISTING STEEL DECK. EXISTING STEEL DECK TO REMAIN. SEE EXISTING ROOF ASSEMBLY DETAIL THIS SHEET.
2. TYPICAL: REMOVE ALL EXISTING EDGE METAL, METAL COPING, ETC.
3. REMOVE EXISTING METAL COUNTER-FLASHING, TERMINATION BARS, ETC.
4. REMOVE ALL ROOF DRAINS, DOMES, BOWLS AND ALL HARDWARE ASSOCIATED.
5. TYPICAL: REMOVE ALL OVERFLOW METAL SCUPPERS.
6. TYPICAL: REMOVE ALL PITCH PANS.
7. TYPICAL: REMOVE ALL EXISTING EPDM BOOTS, ASPHALT, LIQUID FLASHING MATERIALS FROM PENETRATIONS (STEEL, ALUMINUM, GALVANIZED, PVC PIPES AND LIGHTING PROTECTION SYSTEM (L.P.S.) RODS) CLEAN AND PREPARE SURFACES IN ACCORDANCE TO MANUFACTURER'S INSTRUCTIONS.
8. REMOVE EXISTING EXPANSION JOINT COVER.
9. REMOVE LADDER AND COMPONENTS AS NECESSARY AND RETAIN TO REPLACE EXISTING ROOFING SYSTEM AND METAL COPING.
10. REMOVE EXISTING GOOSE NECK. ONLY WHERE INDICATED.
11. REMOVE ABANDONED COMMUNICATION / ELECTRICAL BOX AND CONDUIT LINES. NOTIFY AND TURN IN TO LEE COUNTY.
12. REMOVE ALL EXISTING SUPPORTS FOR CONDENSATE LINES AND ELECTRICAL CONDUIT LINES.
13. REMOVE TEMPORARY SWING STAGING EQUIPMENT. AS NEEDED TO RE-ROOF. REINSTALL IF REQUIRED BY LEE COUNTY.
14. REMOVE EXISTING ROOF HATCH AND RETAIN.
15. REMOVE EXISTING ROOF HATCH RAILINGS AND RETAIN.
16. REMOVE DAMAGED FAN WHERE INDICATED.
17. REMOVE EXISTING ROOF DRAIN LINE AND RETAIN FOR INSTALLATION OF NEW ROOF.
18. REMOVE EXISTING "NOTICE" DECALS AND RETAIN.
19. REMOVE EXISTING ABANDONED SUPPORT BRACKET. RETAIN AND TURN OVER TO LEE COUNTY.

LEGEND:

- (X) DESIGNATED ROOF ASSEMBLY
- SLOPE
- SOIL PIPE
- (A/C) A/C UNIT
- (EF) EXHAUST FAN
- (E) ELECTRICAL BOX
- (DW) DUCT WORK PENETRATING ROOF
- (FP) FAN POWERED TRANSFER PLENUM
- (MS) MINI-SPLIT
- (R.D.) ROOF DRAIN
- PITCH PAN
- (S) STACKS
- (H) ROOF HATCH
- PRIMARY SCUPPER OR OVER FLOW SCUPPER
- COLLECTOR HEAD AND DOWNSPOUT
- SAFETY RAIL
- N.I.C. NOT INCLUDED
- GOOSE NECKS
- LADDER
- (C) CONDENSATE LINE
- (EC) ELECTRICAL CONDUIT LINE
- (S) STACK ON CURB
- (RL) ROOF DRAIN LINE



KEY PLAN

PBA Design Group
2742 JASON ST. TAMPA, FL 33619 www.pbadesigngroup.com

WASTE TO ENERGY FACILITY ROOF REPLACEMENT

PROJECT ADDRESS: 10500 BUCKINGHAM ROAD, FORT MYERS, FL 33905
CONSTRUCTION DOCUMENTS

ISSUE RECORD:

STATE OF FLORIDA — RALEIGH J. BECKHAM — AR97270 — REGISTERED ARCHITECT

Raleigh J. Beckham — Digitally signed by Raleigh J. Beckham — Date: 2024.01.22 09:37:14 -05'00'

No.	Description	Date

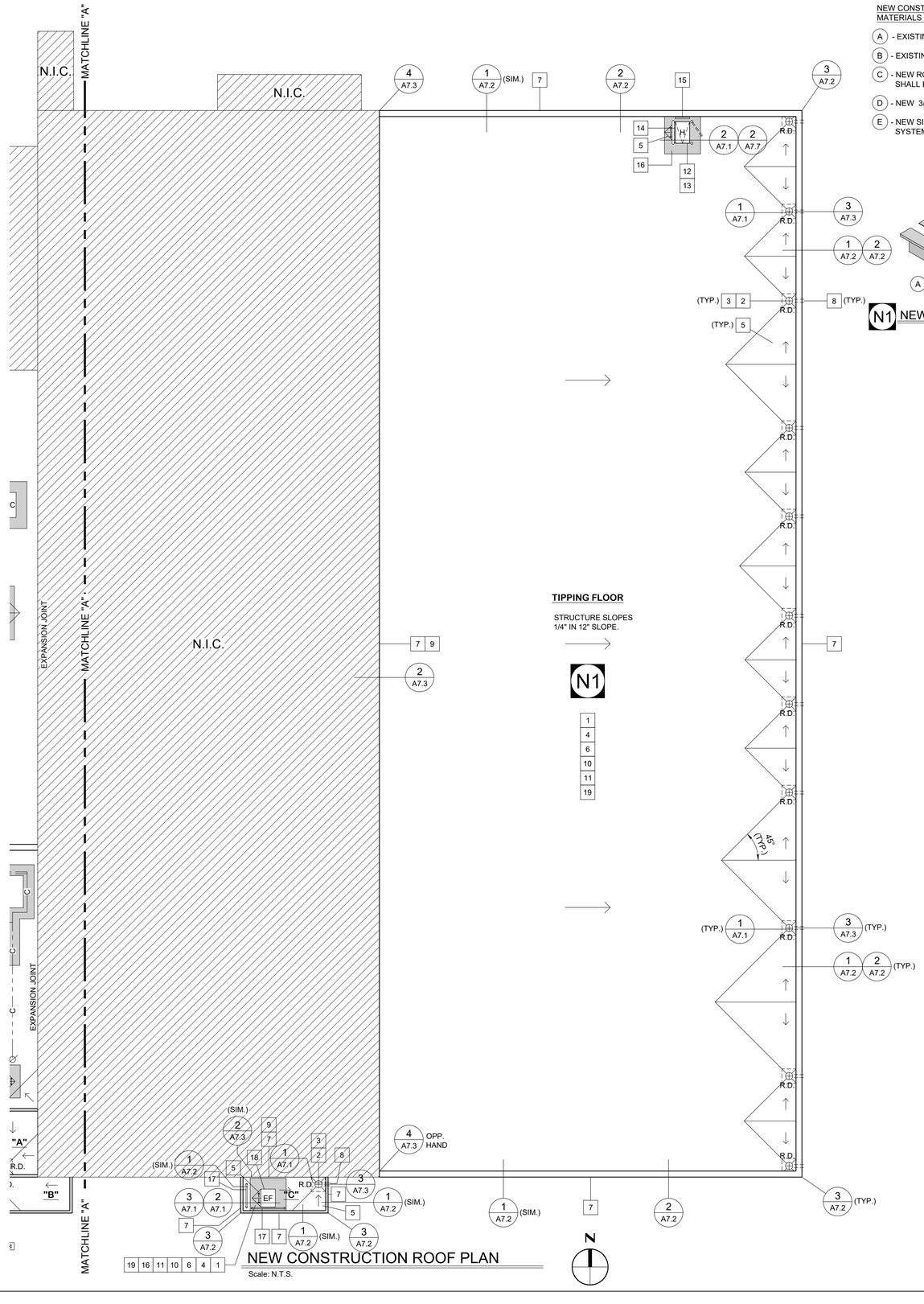
SHEET NO.

A4.2

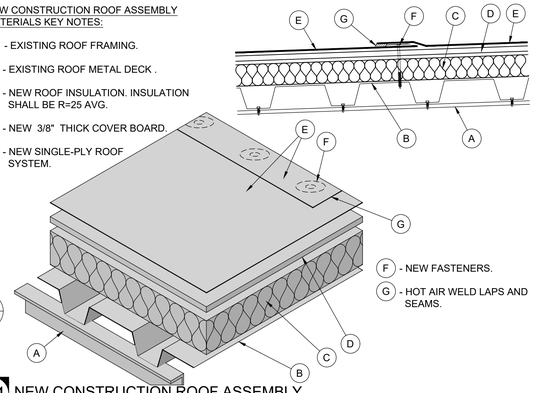
Date JANUARY 24, 2024

BOILER #1 & #2, SDA #1 & #2, TG #1, CARBON BLDG., ELECT'L., BAG HOUSE #1 & #2, ROOF A & B - DEMO. AND EXISTING ROOF PLAN

Scale: AS NOTED



NEW CONSTRUCTION ROOF ASSEMBLY



N1 NEW CONSTRUCTION ROOF ASSEMBLY

NEW CONSTRUCTION ROOF ASSEMBLY MATERIALS KEY NOTES:

- (A) - EXISTING ROOF FRAMING.
- (B) - EXISTING ROOF METAL DECK .
- (C) - NEW ROOF INSULATION. INSULATION SHALL BE R=25 AVG.
- (D) - NEW 3/8" THICK COVER BOARD.
- (E) - NEW SINGLE-PLY ROOF SYSTEM.

NEW CONSTRUCTION ROOF PLAN
Scale: N.T.S.

GENERAL NOTES:

1. ALL PLANS ARE NOT TO SCALE UNLESS NOTED OTHERWISE.
2. DIMENSIONS SHOWN ARE APPROXIMATE. CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS PRIOR TO BID.
3. ROOF PENETRATIONS, EQUIPMENT, QUANTITIES AND LOCATIONS ARE APPROXIMATE FIELD VERIFY PRIOR TO BID.

NEW CONSTRUCTION SCOPE:

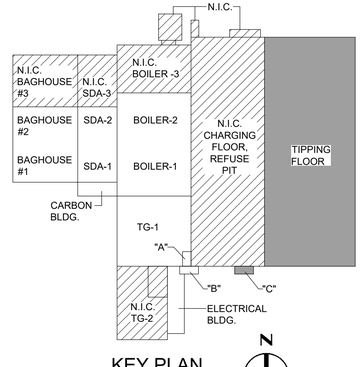
1. INSTALL NEW ROOF SYSTEM.
2. ALL CURBS SHALL BE A MINIMUM OF 8" ABOVE THE NEW FINISHED ROOF SYSTEM. EXTEND OR REPLACE CURBS AS REQUIRED TO ACHIEVE 8" MINIMUM HEIGHT. CONFIRM CURB HEIGHTS PRIOR TO BID. TYPICAL UNLESS NOTED OTHERWISE. SEE DETAIL 4/A7.1 FOR CURB EXTENSION.

NEW CONSTRUCTION PLAN KEY NOTES:

1. CLEAN AND PAINT RUSTED STEEL DECK WHERE REQUIRED ONCE EXISTING ROOF SYSTEM HAS BEEN REMOVED. WHERE METAL DECK REQUIRES REPLACEMENT REFER TO SHEET A1.1 FOR DECK REPAIRS.
2. TYPICAL: SCOPE EACH ROOF DRAIN FOR A DISTANCE OF 20'-0" FEET TO ENSURE THAT DRAIN LINES ARE CLEAR.
3. TYPICAL: INSTALL ALL NEW ROOF DRAINS.
4. PROVIDE AND INSTALL NEW INSULATION AND NEW COVER BOARD.
5. TYPICAL: ADD NEW CRICKETS WHERE SHOWN.
6. INSTALL NEW ROOFING SYSTEM.
7. INSTALL NEW METAL COPING.
8. TYPICAL: INSTALL NEW METAL OVERFLOW SCUPPERS, ETC.
9. INSTALL NEW METAL COUNTER-FLASHING.
10. TYPICAL: FLASH ALL PENETRATIONS (STEEL, ALUMINUM, CAST IRON, GALVANIZED, PVC PIPES AND LIGHTNING PROTECTION SYSTEM (L.P.S.) RODS) WITH MANUFACTURER'S APPROVED FLASHING SYSTEM AND FOLLOW MANUFACTURER'S INSTRUCTIONS.
11. REPLACE LIGHTNING PROTECTION SYSTEM (L.P.S.) UNDAMAGED COMPONENTS MAY BE REUSED. L.P.S. SHALL BE INSTALLED INSIDE LEG OF VERTICAL COPING (ROOF SIDE).
12. REINSTALL EXISTING ROOF HATCH. ROOF HATCH SHALL BE ROTATED WHERE THE HINGE IS FACING TOWARD THE SOUTH SIDE.
13. RE-ANCHOR ROOF HATCH CURB TO THE EXISTING STRUCTURE PER DETAIL ON SHEET A7.1.
14. INSTALL NEW ROOF HATCH GUARD RAIL WITH SIDE GATE.
15. INSTALL NEW GRAB BAR AT PARAPET WALL.
16. PROVIDE NEW TRAFFIC PADS AROUND ROOF HATCH AND ROOF CURBS. INDICATED BY THE SHADED AREAS. SEE DETAIL 4/A7.7
17. INSTALL NEW GUARD RAILING. SEE DETAIL 3/A7.7
18. TYPICAL: ANCHOR ALL EXISTING CURBS TO THE EXISTING STRUCTURE PER DETAIL ON SHEET A7.1.
19. TYPICAL: REINSTALL "NOTICE" DECALS.

LEGEND:

- (X) DESIGNATED ROOF ASSEMBLY
- SLOPE
- (H) ROOF HATCH
- R.D. ROOF DRAIN
- EF EXHAUST FAN
- OVER FLOW SCUPPER
- N.I.C. NOT INCLUDED



KEY PLAN

PBA Design Group
2742 JASON ST. TAMPA, FL 33619 www.pbadesigngroup.com

WASTE TO ENERGY FACILITY ROOF REPLACEMENT

PROJECT ADDRESS: 10500 BUCKINGHAM ROAD, FORT MYERS, FL 33905
CONSTRUCTION DOCUMENTS

ISSUE RECORD:

STATE OF FLORIDA — RALEIGH J. BECKHAM — AR97270 — REGISTERED ARCHITECT

Raleigh J. Beckham — Digitally signed by Raleigh J. Beckham Date: 2024.01.22 13:49:38 -05'00'

No.	Description	Date

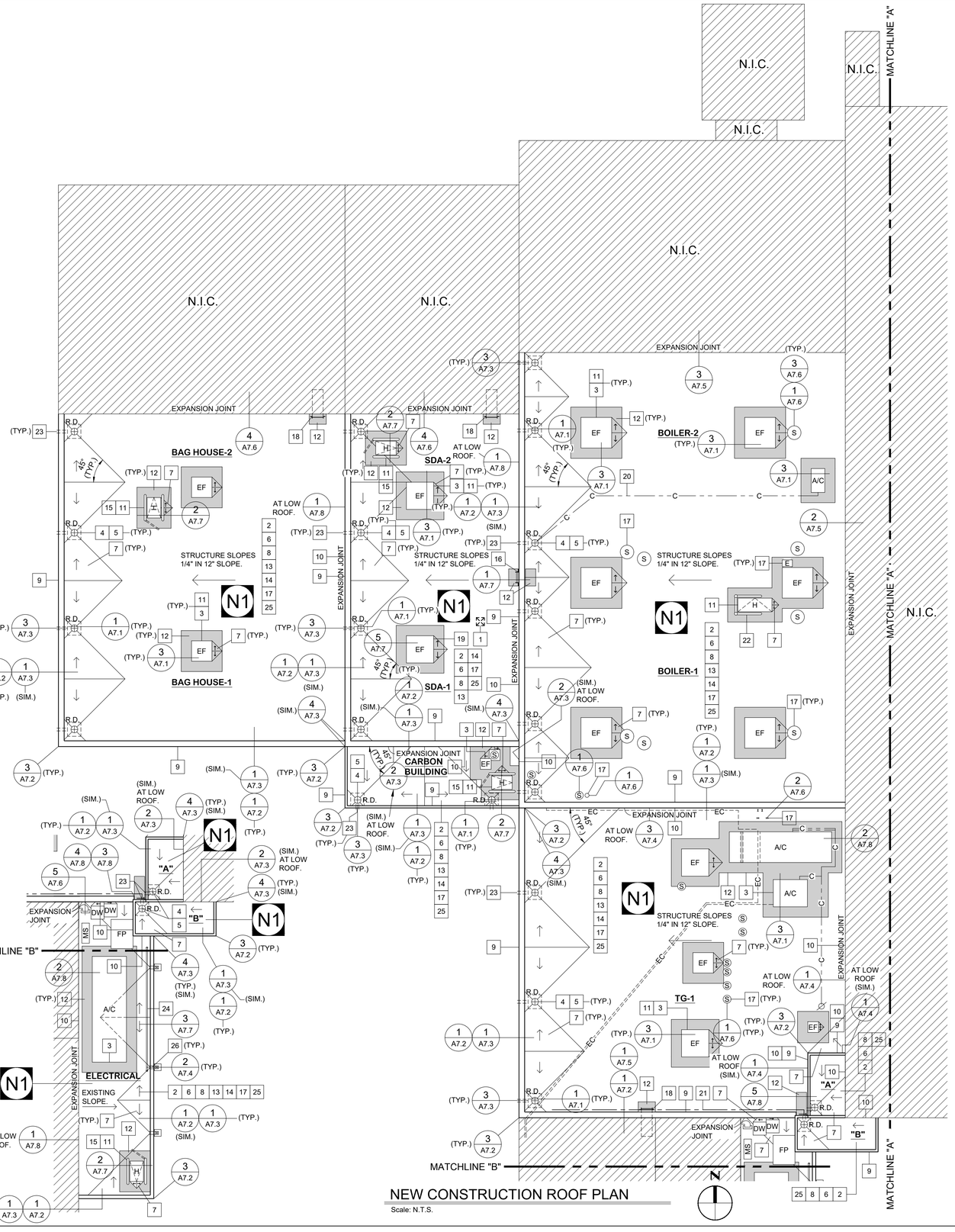
SHEET NO.

A5.1

Date JANUARY 24, 2024

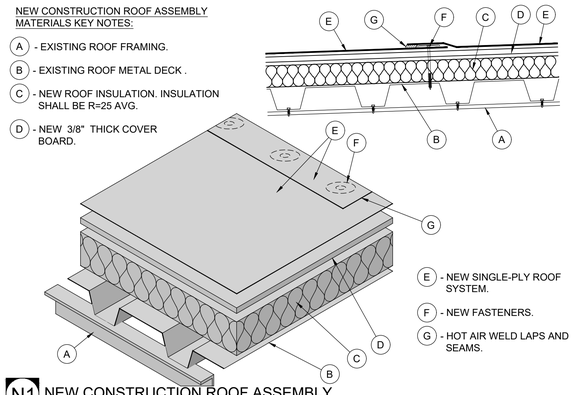
TIPPING FLOOR & ROOF "C" NEW CONSTRUCTION ROOF PLAN

Scale: AS NOTED



NEW CONSTRUCTION ROOF ASSEMBLY MATERIALS KEY NOTES:

- (A) - EXISTING ROOF FRAMING.
- (B) - EXISTING ROOF METAL DECK .
- (C) - NEW ROOF INSULATION. INSULATION SHALL BE R=25 AVG.
- (D) - NEW 3/8" THICK COVER BOARD.
- (E) - NEW SINGLE-PLY ROOF SYSTEM.
- (F) - NEW FASTENERS.
- (G) - HOT AIR WELD LAPS AND SEAMS.



N1 NEW CONSTRUCTION ROOF ASSEMBLY

GENERAL NOTES:

1. ALL PLANS ARE NOT TO SCALE UNLESS NOTED OTHERWISE.
2. DIMENSIONS SHOWN ARE APPROXIMATE. CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS PRIOR TO BID.
3. ROOF PENETRATIONS, EQUIPMENT, QUANTITIES AND LOCATIONS ARE APPROXIMATE FIELD VERIFY PRIOR TO BID.

NEW CONSTRUCTION SCOPE:

1. INSTALL NEW ROOF SYSTEM.
2. ALL CURBS SHALL BE A MINIMUM OF 8" ABOVE THE NEW FINISHED ROOF SYSTEM. EXTEND OR REPLACE CURBS AS REQUIRED TO ACHIEVE 8" MINIMUM HEIGHT. CONFIRM CURB HEIGHTS PRIOR TO BID. TYPICAL UNLESS NOTED OTHERWISE. SEE DETAIL 4/A7.1 FOR CURB EXTENSION. EXCEPTION: CURB AT THE LARGE HVAC UNIT ON AREA TG-1 AND CURB AT THE LARGE HVAC ON THE ELECTRICAL AREA WILL NOT BE EXTENDED OR REPLACED.

NEW CONSTRUCTION PLAN KEY NOTES:

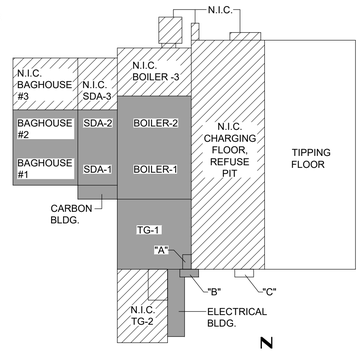
1. COVER OPENING IN METAL DECK. SEE DETAIL ON SHEET A7.1.
2. CLEAN AND PAINT RUSTED STEEL DECK WHERE REQUIRED ONCE EXISTING ROOF SYSTEM HAS BEEN REMOVED. WHERE METAL DECK REQUIRES REPLACEMENT REFER TO SHEET A1.1 FOR DECK REPAIRS.
3. TYPICAL: ANCHOR ALL EXISTING AND NEW ROOF CURBS TO THE EXISTING STRUCTURE PER DETAIL ON SHEET A7.1.
4. TYPICAL: SCOPE EACH ROOF DRAIN FOR A DISTANCE OF 20'-0" FEET TO ENSURE THAT DRAIN LINES ARE CLEAR.
5. TYPICAL: INSTALL ALL NEW ROOF DRAINS.
6. INSTALL NEW INSULATION AND NEW COVER BOARD.
7. TYPICAL: INDICATES NEW CRICKET. ADD NEW CRICKETS WHERE SHOWN.
8. PROVIDE AND INSTALL NEW ROOFING SYSTEM.
9. INSTALL NEW METAL COPING, ETC.
10. INSTALL NEW METAL COUNTER-FLASHING.
11. TYPICAL: REINSTALL EQUIPMENT AND ROOF HATCHES ON NEW OR EXTENDED CURBS.
12. TYPICAL: PROVIDE NEW TRAFFIC PADS AROUND ROOF CURBS, ROOF HATCHES, LADDER LOCATIONS AND AT DOOR ACCESS. INDICATED BY THE SHADED AREAS. SEE DETAIL 4/A7.7
13. TYPICAL: ALL CURB MOUNTED EQUIPMENT SHALL BE REFASTENED WITH NEW STAINLESS STEEL SCREWS WITH CAPPED EPDM WASHER HEX DRIVE (2) PER SIDE OR 12" O/C. (MAX.)
14. REPLACE LIGHTNING PROTECTION SYSTEM (L.P.S.) UNDAMAGED COMPONENTS MAY BE REUSED.
15. PROVIDE AND INSTALL NEW ROOF HATCH RAILS.
16. INSTALL NEW LADDER.
17. TYPICAL: FLASH ALL PENETRATIONS (STEEL, ALUMINUM, CAST IRON, GALVANIZED, PVC PIPES AND LIGHTNING PROTECTION SYSTEM (L.P.S.) RODS) WITH MANUFACTURER'S APPROVED FLASHING SYSTEM AND FOLLOW MANUFACTURER'S INSTRUCTIONS.
18. REINSTALL LADDER AND COMPONENTS ONCE NEW ROOF SYSTEM AND METAL COPING HAVE BEEN INSTALLED.
19. UPGRADE EXISTING CURB IN ACCORDANCE WITH DETAIL AND CAP FOR FUTURE USE.

NEW CONSTRUCTION PLAN KEY NOTES CONTINUE BELOW:

20. TYPICAL: REPLACE EXISTING SUPPORT AND ADD NEW SUPPORTS AT ALL CONDENSATE AND ELECTRICAL CONDUIT LINES.
21. REINSTALL ROOF DRAIN LINE AND PROVIDE EXTENSION NEAR ROOF DRAIN AS INDICATED.
22. REINSTALL HATCH RAILING AND EXTEND LEGS OF RAILING AS NEEDED TO REATTACH TO THE ROOF HATCH.
23. TYPICAL: INSTALL NEW OVERFLOW SCUPPERS.
24. INSTALL NEW GUARD RAILING. SEE DETAIL 3/A7.7
25. TYPICAL: REINSTALL "NOTICE" DECALS.
26. TYPICAL: ELECTRICAL BUILDING - INSTALL NEW PRIMARY SCUPPERS.

LEGEND:

- X — DESIGNATED ROOF ASSEMBLY
- SLOPE
- SOIL PIPE
- A/C — A/C UNIT
- EF — EXHAUST FAN
- E — ELECTRICAL BOX
- DW — DUCT WORK PENETRATING ROOF
- FP — FAN POWERED TRANSFER PLENUM
- MS — MINI-SPLIT
- R.D. — ROOF DRAIN
- S — STACKS
- H — ROOF HATCH
- PRIMARY SCUPPER OR OVER FLOW SCUPPER
- COLLECTOR HEAD AND DOWNSPOUT
- SAFETY RAIL
- N.I.C. — NOT INCLUDED
- GOOSE NECK
- LADDER
- C — CONDENSATE LINE
- EC — ELECTRICAL CONDUIT LINE
- S — STACK ON CURB
- RL — ROOF DRAIN LINE



KEY PLAN

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CONSTRUCTION DOCUMENTS

ISSUE RECORD:

STATE OF FLORIDA — RALEIGH J. BECKHAM — AR97270

Raleigh J. Beckham — Digitally signed by Raleigh J. Beckham, Date: 2024.01.22 15:19:55 -05'00'

No.	Description	Date

SHEET NO.

A5.2

Date JANUARY 24, 2024

BOILER #1 & #2, SDA #1 & #2, TG #1, CARBON BLDG., ELECT'L., BAG HOUSE #1 & #2, ROOF A & B - NEW CONSTRUCTION ROOF PLAN

Scale: AS NOTED

NOTES:

1. INSTALL NEW CAST IRON ROOF DRAINS WITH NEW STEEL RISERS AND HUSKY ORANGE HEAVY WEIGHT COUPLINGS.
2. PROVIDE NEW STAINLESS STEEL BOLTS FOR CLAMING RING WITH STAINLESS STEEL LOCK-IN WASHERS.
3. APPLY ANTI SEIZE COATING TO BOLT THREADS BEFORE INSTALLATION. USE TFE PIPE THREAD SEALANT WITH TEFLON OR EQUAL.
4. INSTALL A 4'-0" x 4'-0" SUMP AROUND THE ROOF DRAIN WITH A MINIMUM OF 1 1/2" IN 12" SLOPE DRAINAGE INTO DRAIN BOWL. STANDING WATER AROUND THE ROOF DRAIN IS NOT ACCEPTABLE.
5. THE SUMP MAY BE UP TO 8'-0" x 8'-0" IF REQUIRED TO PREVENT VOIDS OR BUCKLES IN THE ROOF PLIES.
6. INSTALL NEW 48"x48" SINGLE-PLY SHEET AT TO DRAIN BOWL.

MATERIAL DESCRIPTION:

(A) - NEW INSULATION.

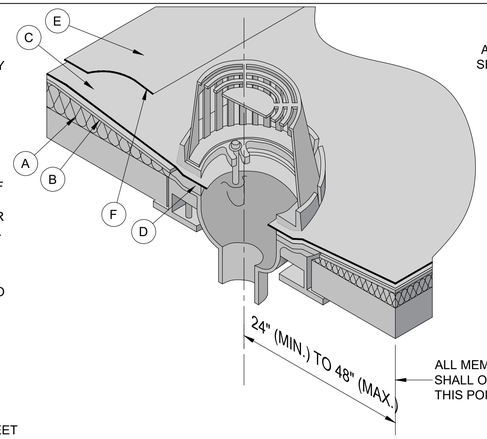
(B) - NEW COVER BOARD.

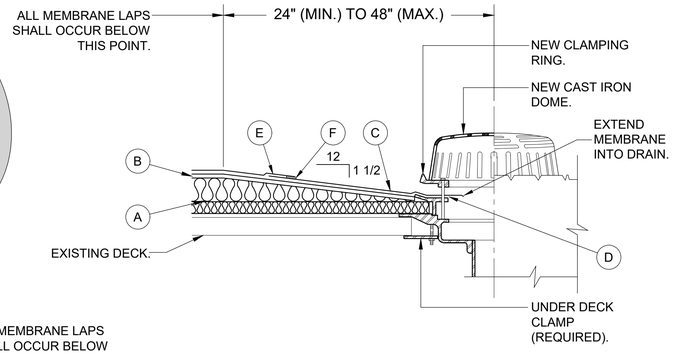
(C) - NEW 48"x48" SINGLE-PLY SHEET. EXTEND SHEET 1/2" BEYOND INSIDE OF CLAMPING RING.

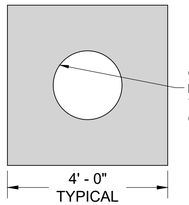
(D) - APPLY MANUFACTURER'S RECOMMENDED SEALANT BETWEEN MEMBRANE AND CLAMPING RING.

(E) - NEW SINGLE-PLY FIELD MEMBRANE.

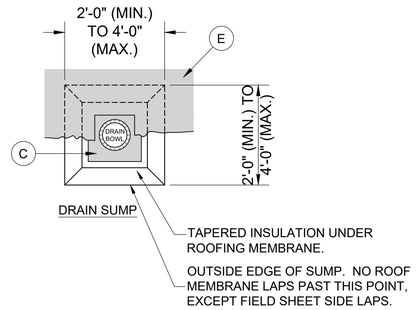
(F) - HOT AIR WELD LAPS AND SEAMS.



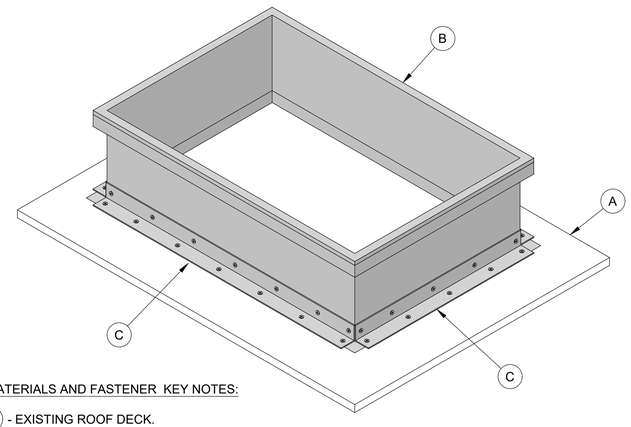




PLAN VIEW OF SHEET TEMPLATE



1 A7.1 NEW ROOF DRAIN DETAIL TYPICAL
Scale: N.T.S.
NOTE: REFER TO SHEETS A5.1 & A5.2



MATERIALS AND FASTENER KEY NOTES:

(A) - EXISTING ROOF DECK.

(B) - EXISTING OR NEW ROOF CURB.

(C) - PROVIDE NEW 16 GAUGE ANGLE AT PERIMETER OF CURB. ATTACH ANGLE TO CURB AND METAL DECK WITH NEW #14 SELF-DRILLING, SELF-TAPPING SCREWS @ 6" O/C. MAX. OR (3) FASTENERS PER SIDE.

2 A7.1 CURB RE-ANCHORING DETAIL TYPICAL
Scale: N.T.S.
NOTE: REFER TO SHEETS A5.1 & A5.2

MATERIALS AND FASTENER KEY NOTES:

(A) - EXISTING ROOF DECK.

(B) - EXISTING OR NEW ROOF CURB.

(C) - ATTACHMENT PER DETAIL 2/A7.1

(D) - NEW INSULATION.

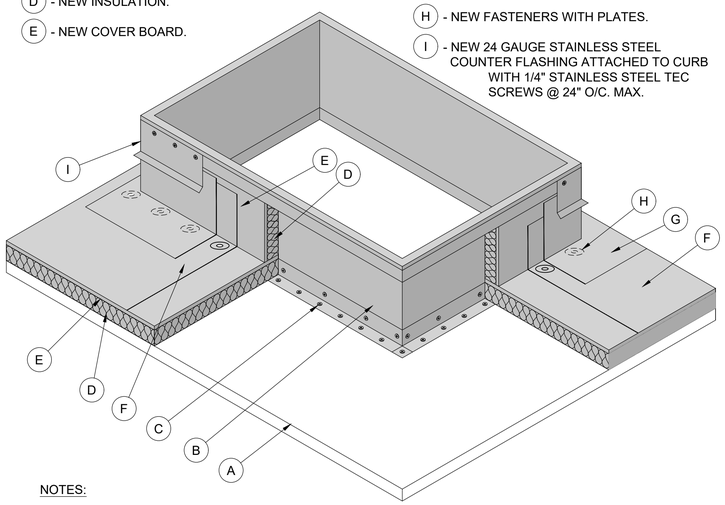
(E) - NEW COVER BOARD.

(F) - NEW SINGLE-PLY FIELD SHEET. ADHERE AT WALL/VERTICAL SURFACES WITH MANUFACTURER'S RECOMMENEDED ADHESIVE.

(G) - NEW MEMBRANE FLASHING.

(H) - NEW FASTENERS WITH PLATES.

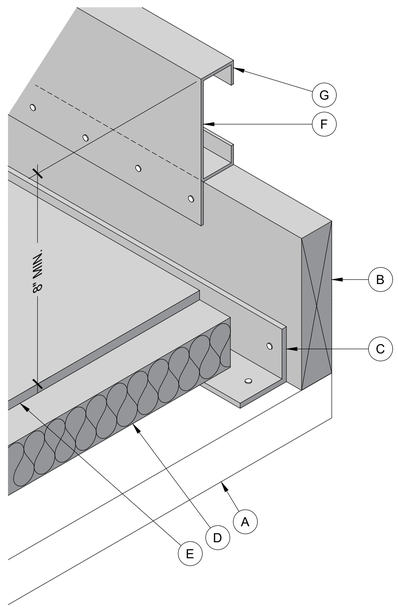
(I) - NEW 24 GAUGE STAINLESS STEEL COUNTER FLASHING ATTACHED TO CURB WITH 1/4" STAINLESS STEEL TEC SCREWS @ 24" O/C. MAX.



NOTES:

1. CURB HEIGHT TO BE 8" (MIN.) ABOVE ROOF SURFACE.
2. COUNTER FLASHING SHALL EXTEND 3" BELOW THE TOP OF THE SINGLE-PLY FIELD MEMBRANE.
3. SEAL TOP OF SINGLE-PLY MEMBRANE WITH MANUFACTURER'S RECOMMENDED SEALANT.
4. SECURE NEW CURBS TO DECK TO MEET REQUIRED WIND LOADS.
5. SINGLE-PLY FIELD MEMBRANE HEIGHT SHALL BE A MINIMUM OF 8" ABOVE THE FINISHED ROOF HEIGHT.
6. WHERE CURBS NEED TO BE EXTENDED TO ACHIEVE THE 8" (MIN.) REQUIRED HEIGHT, SEE DETAIL 4/A7.1
7. INSTALL WATER DIVERTERS (CRICKETS) SEE PLAN.

3 A7.1 CURB FLASHING DETAIL FOR NEW OR EXISTING CURBS TYPICAL
Scale: N.T.S.
NOTE: REFER TO SHEETS A5.1 & A5.2



MATERIALS AND FASTENER KEY NOTES:

(A) - EXISTING ROOF DECK.

(B) - EXISTING CURB - WOOD OR METAL.

(C) - NEW ANGLE PER DETAIL 2/A7.1.

(D) - NEW INSULATION.

(E) - NEW COVER BOARD.

(F) - ATTACHMENT PER FPA (FLORIDA PRODUCT APPROVAL).

(G) - CURB EXTENSION (ACTUAL PRE-FABRICATED UNIT MAY VARY). REQUIRED FLORIDA PRODUCT APPROVAL.

NOTES:

1. SINGLE-PLY SHEETS ARE NOT SHOWN FOR CLARITY.
2. SOURCE: SEACOAST CURBS OR EQUIVALENT. INSTALL EXTENSION PER FPA (FLORIDA PRODUCT APPROVAL).

4 A7.1 CURB EXTENSION DETAIL TYPICAL
Scale: N.T.S.
NOTE: REFER TO SHEETS A5.1 & A5.2

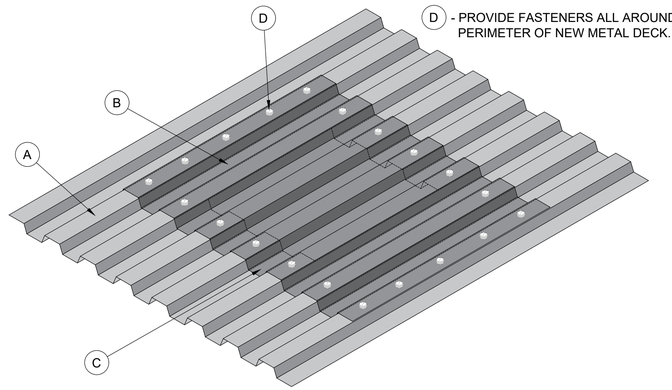
MATERIALS AND FASTENER KEY NOTES:

(A) - EXISTING ROOF DECK.

(B) - PROVIDE NEW MATCHING METAL DECK OVERLAY PIECE AND PAINT.

(C) - PROVIDE SEALANT BETWEEN EXISTING AND NEW METAL DECK ALL AROUND PERIMETER.

(D) - PROVIDE FASTENERS ALL AROUND PERIMETER OF NEW METAL DECK.



NOTES:

1. NEW METAL DECK SHOULD OVERLAP EXISTING DECK BY AT LEAST 12" ON EACH ENDS.
2. NEW METAL DECK SHOULD OVERLAP EXISTING DECK OVER AT LEAST 1 FLUTE ON EACH SIDE.
3. EXTEND NEW DECK TO JOISTS ON ENDS OF DECK.

5 A7.1 METAL DECK REPAIR OR OPENING COVER DETAIL TYPICAL
Scale: N.T.S.
NOTE: REFER TO SHEET A5.2

PBA Design Group
2742 JASON ST. TAMPA, FL 33619 www.pbadesigngroup.com

WASTE TO ENERGY FACILITY ROOF REPLACEMENT

PROJECT ADDRESS: 10500 BUCKINGHAM ROAD, FORT MYERS, FL 33905
CONSTRUCTION DOCUMENTS

ISSUE RECORD:

STATE OF FLORIDA
RALEIGH J. BECKHAM
AR97270
REGISTERED ARCHITECT
Raleigh J. Beckham
Digitally signed by Raleigh J. Beckham
Date: 2024.01.22 10:19:37 -05'00'

No.	Description	Date

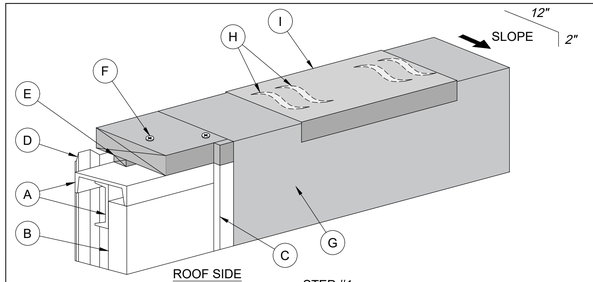
SHEET NO.

A7.1

Date JANUARY 24, 2024

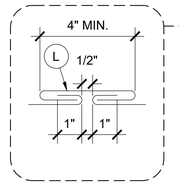
ROOF DETAILS

Scale: AS NOTED

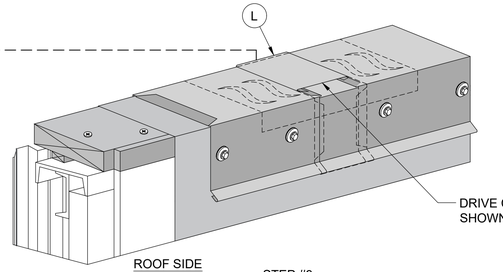


ROOF SIDE

STEP #1

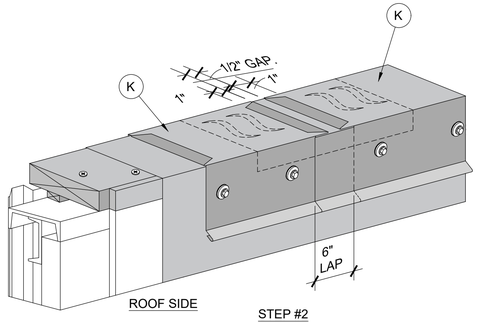


DRIVE CLEAT ASSEMBLY



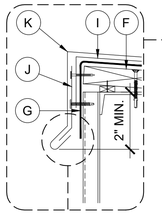
ROOF SIDE

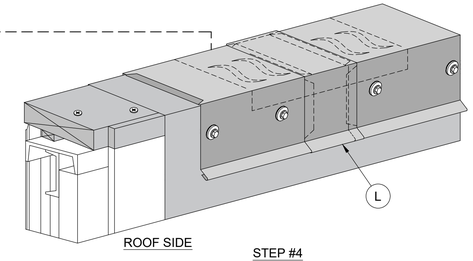
STEP #3



ROOF SIDE

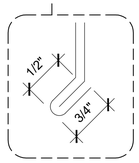
STEP #2

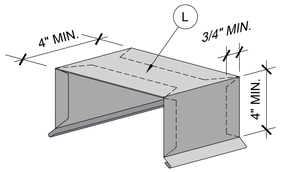




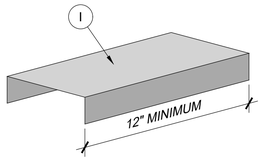
ROOF SIDE

STEP #4





DRIVE CLEAT JOINT COVER



BACKUP PLATE

MATERIALS AND FASTENER KEY NOTES:

(A) - EXISTING STRUCTURAL STEEL FRAMING.

(B) - EXISTING LIGHT GAUGE STEEL FRAMING INFILL

(C) - EXISTING PLYWOOD SHEATHING OR CEMENT BOARD ATTACHED TO LIGHT GAUGE STEEL FRAMING.

(D) - EXISTING METAL SIDING PANEL.

(E) - ATTACH 1x2 CONTINUOUS SHIM TRIM TO CONTINUOUS 2x WOOD WITH 8d GALVANIZED NAILS @ 12" O/C. MAX.

(F) - ATTACH 2x CONTINUOUS WOOD NAILER TO STRUCTURAL STEEL WITH #12-24 x 3 1/2" LONG STAINLESS STEEL FASTENERS @ 12" O/C. STAGGERED.

(G) - EXTEND SINGLE-PLY MEMBRANE OVER PARAPET WALL 2" BELOW CONTINUOUS 2x NAILER AT EXTERIOR SIDE.

(H) - PROVIDE TWO NEW RIBBONS OF SEALANT TOP AND BOTTOM (BOTH SIDES) OF BACK UP PLATE.

(I) - PROVIDE .032" BACKUP PLATE 12" LONG MINIMUM.

(J) - ATTACH CONTINUOUS .050" MIL-FINSIHED ALUMINUM METAL CLEAT WITH 12 GAUGE STAINLESS STEEL RING SHANK NAILS x 1 1/2" LONG WITH 3/8" HEAD MINIMUM @ 6" O/C. MAX.

(K) - INSTALL PRE-FINISHED ALUMINUM CONTINUOUS METAL COPING COVER AND FASTEN AT ROOF SIDE VERTICAL LEG OF METAL COPING WITH #12 x 2" LONG STAINLESS STEEL SCREWS WITH STAINLESS STEEL CAPPED EPDM WASHER HEX DRIVE @ 16" O/C.

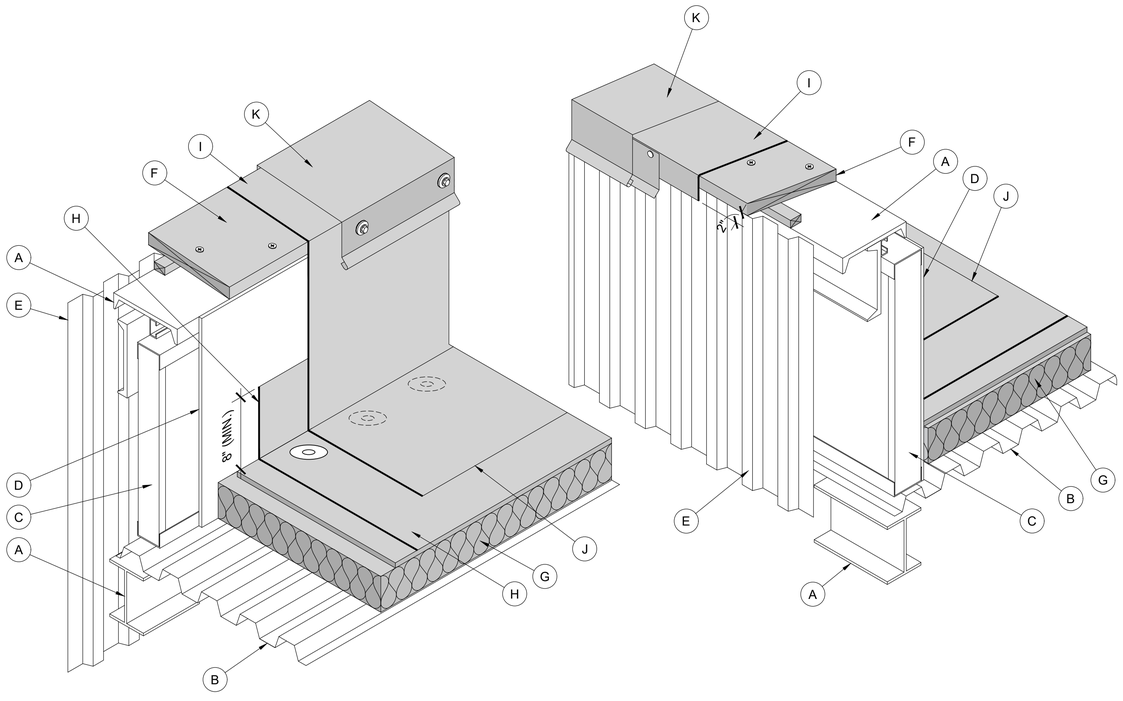
(L) - PRE-FINISHED ALUMINUM DRIVE CLEAT JOINT COVER. TURN DOWN DRIVE CLEAT TO COVER FACES OF COPING AND CRIMP METAL TO ENGAGE DRIP EDGE (BOTH SIDES).

METAL COPING NOTES:

1. VERTICAL LEGS OF COPING SHALL BE A MINIMUM OF 4". COPING LAPS SHALL BE 6" MINIMUM.
2. CONTINUOUS CLEATS ARE REQUIRED. DO NOT OVER LAP CLEATS.
3. BACKUP PLATES ARE REQUIRED.
4. CLOSE CLEAT RECEIVERS TIGHT TO CLEAT CONTINUOUSLY.
5. PROVIDE SLOPE TO ROOF OF 2" IN 12". ADD SHIMS AS REQUIRED.
6. ADD NAILERS TO PARAPET WALL TO MAINTAIN 8" ABOVE THE ROOF SURFACE.
7. IF NAILERS ARE EXISTING AND MAINTAINS 8" ABOVE THE ROOF SURFACE, NAILERS ARE TO BE REATTACHED.
8. ADD METAL SKIRTS TO WALL FACE UNDER COPING TO EXTEND FACE TO COVER NAILERS.
9. LINE UP COVER PLATES WHERE SKIRT METAL IS USED.
5. LAP VERTICAL LEGS OF COPING 2" MINIMUM.
8. DO NOT USE DRIVE CLEATS ON STEEP SLOPE WALLS.
9. USE LAP JOINTS FOR COPING THAT SLOPES END TO END. LAP COPING COVER SHALL BE 6" MINIMUM AND SHALL BE INSTALLED IN DIRECTION OF FLOW.
10. CLEAT JOINTS SHALL ABUT AND SHALL BE LOCATED MID-WAY AT COPING COVER.
11. DRIVE CLEAT JOINT COVER LOCATIONS SHALL BE DETERMINED BY THE LENGTH OF THE BUILDING AND TAKE INTO ACCOUNT THE COPING MITER AT THE CORNERS AND SPACE JOINT COVERS IN A UNIFORMLY MANNER OR EQUALLY SPACED AS REQUIRED.

1 A7.2 METAL COPING DETAIL AT PARAPET WALL
Scale: N.T.S. TYPICAL

NOTE:
REFER TO SHEETS A5.1 & A5.2



MATERIALS AND FASTENER KEY NOTES:

(A) - EXISTING STRUCTURAL STEEL FRAMING.

(B) - EXISTING METAL DECK.

(C) - EXISTING LIGHT GAUGE STEEL FRAMING INFILL

(D) - EXISTING PLYWOOD SHEATHING OR CEMENT BOARD ATTACHED TO LIGHT GAUGE STEEL FRAMING.

(E) - EXISTING METAL SIDING PANEL. PROFILE VARIES.

(F) - SEE DETAIL 1/A7.2 FOR WOOD ANCHORAGE TO STRUCTURAL STEEL FRAMING.

(G) - NEW INSULATION AND COVER BOARD. SEE ROOF ASSEMBLIES FOR ADDITIONAL REQUIREMENTS.

(H) - EXTEND SINGLE-PLY FIELD MEMBRANE UP PARAPET WALL 8" AND ATTACH MEMBRANE AS SHOWN WITH FASTENERS @ 6" O/C. (MIN.) MEMBRANE AT WALL TO BE FULLY ADHERED WITH MANUFACTURER'S RECOMMENDED ADHESIVE.

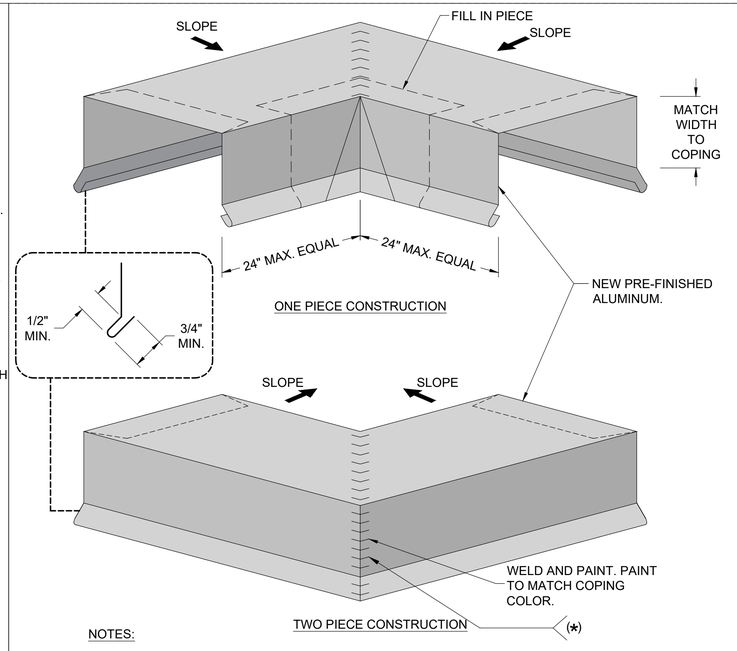
(I) - EXTEND MEMBRANE FLASHING OVER PARAPET WALL 2" BELOW CONTINUOUS 2x NAILER AT EXTERIOR SIDE. ADHERE MEMBRANE AT WALL WITH MANUFACTURER'S RECOMMENDED ADHESIVE.

(J) - HOT AIR WELD LAPS AND SEAMS.

(K) - SEE DETAIL 1/A.7.2 FOR METAL COPING AND REQUIREMENTS.

2 A7.2 SINGLE-PLY FLASHING DETAIL AT PARAPET WALL
Scale: N.T.S. TYPICAL

NOTE
REFER TO SHEET A5.1



TWO PIECE CONSTRUCTION

NOTES:

1. CLEAT MITER PIECE TO WITHIN 12" OF OUTSIDE CORNER.
2. WELD "FILL IN" PIECE INTO PLACE OR USE ONE PIECE CONSTRUCTION.
3. WELD MITER.
4. STANDING SEAM JOINTS ARE NOT ACCEPTABLE.
5. MITERS SHALL SLOPE TO ROOF MATCHING COPING.

(*) REFER TO AWS D9.1/D9.1M:2018 - SHEET METAL CODE FOR WELDING GUIDELINES.

3 A7.2 METAL COPING MITER PIECE DETAIL AT CORNER
Scale: N.T.S. TYPICAL

NOTE:
REFER TO SHEETS A5.1 & A5.2

PBA Design Group
2742 JASON ST. TAMPA, FL 33619 www.pbadesigngroup.com

WASTE TO ENERGY FACILITY ROOF REPLACEMENT

PROJECT ADDRESS: 10500 BUCKINGHAM ROAD, FORT MYERS, FL 33905
CONSTRUCTION DOCUMENTS

ISSUE RECORD:

STATE OF FLORIDA
RALEIGH J. BECKHAM
AR97270
Raleigh J. Beckham
Digitally signed by Raleigh J. Beckham
Date: 2024.01.22 10:29:36 -05'00'

No.	Description	Date

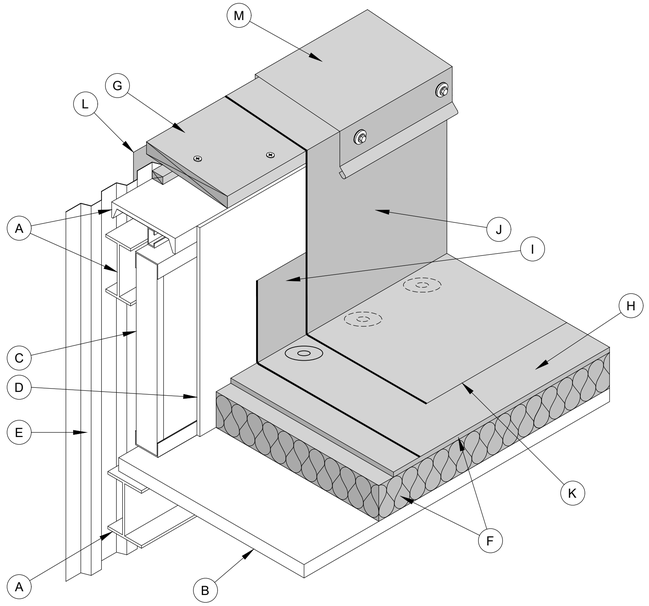
SHEET NO.

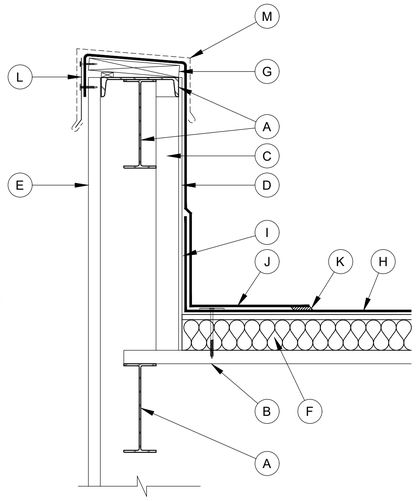
A7.2

Date JANUARY 24, 2024

ROOF DETAILS

Scale: AS NOTED

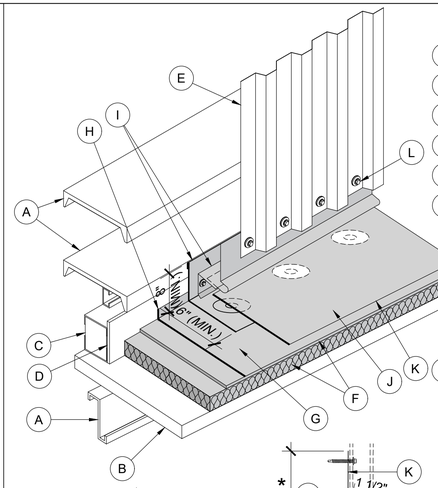


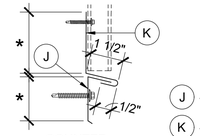


MATERIALS AND FASTENER KEY NOTES:

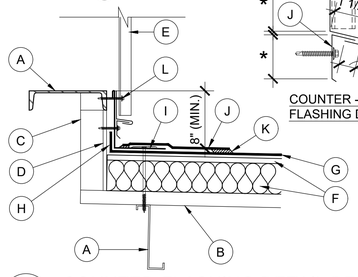
- (A) - EXISTING STRUCTURAL STEEL FRAMING.
- (B) - EXISTING METAL DECK.
- (C) - EXISTING METAL STUD FRAMING.
- (D) - EXISTING COVER BOARD SHEATHING.
- (E) - EXISTING METAL SIDING PANEL.
- (F) - NEW INSULATION AND COVER BOARD. SEE ROOF ASSEMBLIES FOR ADDITIONAL REQUIREMENTS.
- (G) - NEW PRESSURE TREATED OR EXISTING 2x WOOD NAILER. SEE DETAIL 1/A7.2 FOR REQUIREMENTS.
- (H) - NEW SINGLE-PLY FIELD MEMBRANE ATTACHED AS INDICATED.
- (I) - ADHERE SINGLE-PLY MEMBRANE TO WALL SHEATHING.
- (J) - EXTEND SINGLE-PLY OVER PARAPET WALL AS SHOWN AND ADHERE TO WALL. SEE SHEET A7.2 FOR REQUIREMENTS.
- (K) - HOT AIR WELD LAPS AND SEAMS.
- (L) - CONTINUOUS METAL CLEAT. SEE 2/A7.2 FOR METAL TYPE, GAUGE AND FASTENING REQUIREMENTS.
- (M) - METAL COPING. SEE SHEET A7.2 FOR METAL TYPE, GAUGE AND FASTENING REQUIREMENTS.

1 A7.3 — SINGLE-PLY FLASHING DETAIL AT PARAPET WALL
Scale: N.T.S.
NOTE: TYPICAL
NOTE: REFER TO SHEET A5.2





COUNTER - FLASHING DETAIL

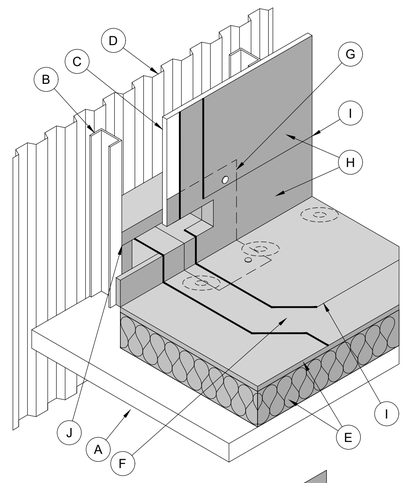


MATERIALS AND FASTENER KEY NOTES:

- (A) - EXISTING STRUCTURAL STEEL FRAMING.
- (B) - EXISTING METAL DECK.
- (C) - EXISTING METAL STUD FRAMING.
- (D) - EXISTING COVER BOARD SHEATHING.
- (E) - EXISTING METAL SIDING PANEL.
- (F) - NEW INSULATION AND COVER BOARD. SEE ROOF ASSEMBLIES FOR ADDITIONAL REQUIREMENTS.
- (G) - NEW SINGLE-PLY FIELD MEMBRANE.
- (H) - ADHERE SINGLE-PLY MEMBRANE TO WALL SHEATHING OR STEEL SURFACE. CLEAN STEEL SURFACES TO ADHERE MEMBRANE AS NEEDED.
- (I) - INSTALL AND SLIDE IN NEW CONTINUOUS 22 GAUGE MEMBRANE COATED METAL FASTENED THRU SINGLE-PLY, ROOF ASSEMBLY AND INTO EXISTING METAL DECK. INCLUDE NEW .050" MIL-FINISHED ALUMINUM COUNTER-FLASHING WITH .063" MIL-FINISHED ALUMINUM CLEAT FASTENED WITH #12-24 STAINLESS STEEL 5/16" H.W.H. WITH METAL BACKED EPDM WASHER @ 12" O/C. MAX.
- (J) - INSTALL STRIPPING PLY.
- (K) - HOT AIR WELD LAPS AND SEAMS.
- (L) - WHERE WALL PANEL FASTENERS ARE REMOVED OR UNFASTENED, REPLACE OLD FASTENERS WITH NEW OVERSIZED STAINLESS STEEL FASTENERS WITH METAL BACK EPDM WASHERS.

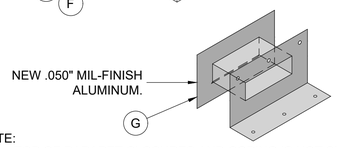
* AS NEEDED.

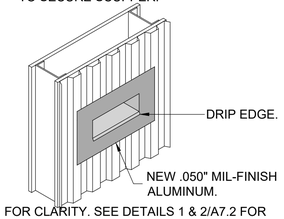
2 A7.3 — COUNTER-FLASHING DETAIL BELOW METAL SIDING PANEL
Scale: N.T.S.
NOTE REFER TO SHEET A5.1



MATERIALS AND FASTENER KEY NOTES:

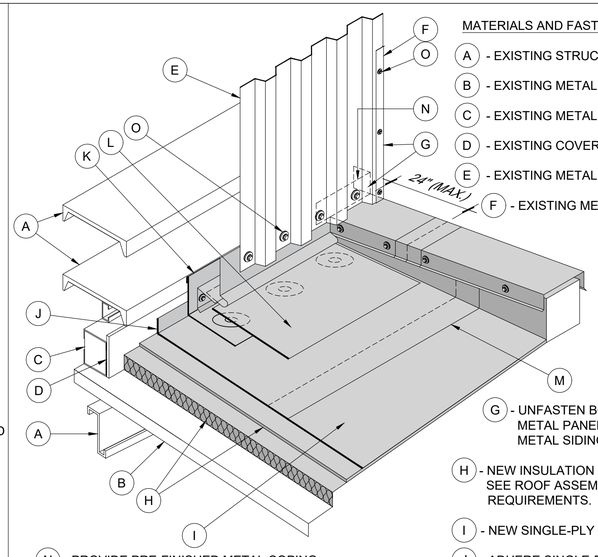
- (A) - EXISTING METAL DECK.
- (B) - EXISTING STEEL/METAL FRAMING.
- (C) - EXISTING COVER BOARD SHEATHING.
- (D) - EXISTING METAL SIDING PANEL.
- (E) - NEW INSULATION AND COVER BOARD. SEE ROOF ASSEMBLIES FOR ADDITIONAL REQUIREMENTS.
- (F) - NEW SINGLE-PLY FIELD MEMBRANE ATTACHED AS INDICATED. SINGLE-PLY SHALL EXTEND INTO SCUPPER OPENING AND ADHERE TO VERTICAL SURFACES.
- (G) - PROVIDE METAL SCUPPER FASTENED TO WALL. WELD ALL SEAMS AND JOINT.
- (H) - ADHERE SINGLE-PLY MEMBRANE TO WALL SHEATHING.
- (I) - HOT AIR WELD LAPS AND SEAMS.
- (J) - PROVIDE ADDITIONAL FRAMING AS NEEDED TO SECURE SCUPPER.





NOTE:
1. TOP OF PARAPET CLOSURES AND COPING IS NOT SHOWN FOR CLARITY. SEE DETAILS 1 & 2/A7.2 FOR PARAPET WALL FLASHING AND METAL COPING.
2. ADJUST HEIGHT TO NO MORE THAN 4" ABOVE PRIMARY ROOF DRAINS.
3. MINIMUM OPENING SHALL BE 8"x12".
4. TURN METAL BACK 1/2" AT ALL EXPOSED EDGES SO THAT NO CUT EDGES ARE EXPOSED.
5. THERE SHALL BE NO EXPOSED FASTENERS ON THE EXTERIOR SIDE OF THE ESCUTCHEON PLATE.
6. SINGLE-PLY FLASHING SEAMS TO BE HOT AIR WELDED LIKE FIELD SEAMS .

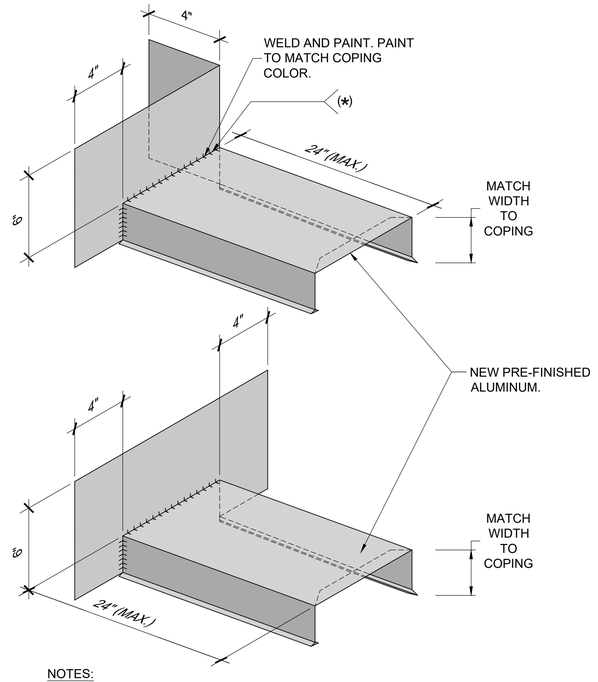
3 A7.3 — OVERFLOW SCUPPER DETAIL
Scale: N.T.S.
NOTE: TYPICAL
NOTE: REFER TO SHEETS A5.1 & A5.2



MATERIALS AND FASTENER KEY NOTES:

- (A) - EXISTING STRUCTURAL STEEL FRAMING.
- (B) - EXISTING METAL DECK.
- (C) - EXISTING METAL STUD FRAMING.
- (D) - EXISTING COVER BOARD SHEATHING.
- (E) - EXISTING METAL SIDING PANEL.
- (F) - EXISTING METAL SIDING CLOSURE.
- (G) - UNFASTEN BOTTOM OF EXISTING METAL PANEL AS NEEDED AND METAL SIDING CLOSURE.
- (H) - NEW INSULATION AND COVER BOARD. SEE ROOF ASSEMBLIES FOR ADDITIONAL REQUIREMENTS.
- (I) - NEW SINGLE-PLY FIELD MEMBRANE.
- (J) - ADHERE SINGLE-PLY MEMBRANE TO WALL SHEATHING OR STEEL SURFACE. CLEAN STEEL SURFACES TO ADHERE MEMBRANE AS NEEDED.
- (K) - INSTALL AND SLIDE IN NEW CONTINUOUS 22 GAUGE MEMBRANE COATED METAL. SEE DETAIL 2/A7.3 FOR TYPICAL NOTES.
- (L) - INSTALL STRIPPING PLY.
- (M) - HOT AIR WELD LAPS AND SEAMS.
- (N) - PROVIDE PRE-FINISHED METAL COPING WITH VERTICAL FLANGES TURNED UP AT WALL AS SHOWN AND EXTEND 24" AWAY FROM WALL. REFER TO SHEET A7.2 FOR METAL COPING DETAILS AND REQUIREMENTS. SEE ALSO DETAIL 5/A7.3.
- (O) - WHERE WALL PANEL AND PANEL CLOSURES FASTENERS ARE REMOVED OR UNFASTENED, REPLACE OLD FASTENERS WITH NEW OVERSIZED STAINLESS STEEL FASTENERS WITH METAL BACK EPDM WASHERS.

4 A7.3 — PARAPET METAL COPING AT END OF WALL DETAIL
Scale: N.T.S.
NOTE: TYPICAL
NOTE: REFER TO SHEETS A5.1 & A5.2



NOTES:
1. WELD ALL JOINTS.
(*) REFER TO AWS D9.1/D9.1M:2018 - SHEET METAL CODE FOR WELDING GUIDELINES.

5 A7.3 — PARAPET METAL COPING AT END OF WALL DETAIL
Scale: N.T.S.
NOTE: TYPICAL
NOTE: REFER TO SHEETS A5.1 & A5.2

PBA Design Group
2742 JASON ST. TAMPA, FL 33619 www.pbadesigngroup.com

WASTE TO ENERGY FACILITY ROOF REPLACEMENT

PROJECT ADDRESS: 10500 BUCKINGHAM ROAD, FORT MYERS, FL 33905
CONSTRUCTION DOCUMENTS

ISSUE RECORD:

STATE OF FLORIDA — RALEIGH J. BECKHAM — AR97270 — REGISTERED ARCHITECT

Raleigh J. Beckham — Digitally signed by Raleigh J Beckham — Date: 2024.01.22 — 09:21:33 -05'00'

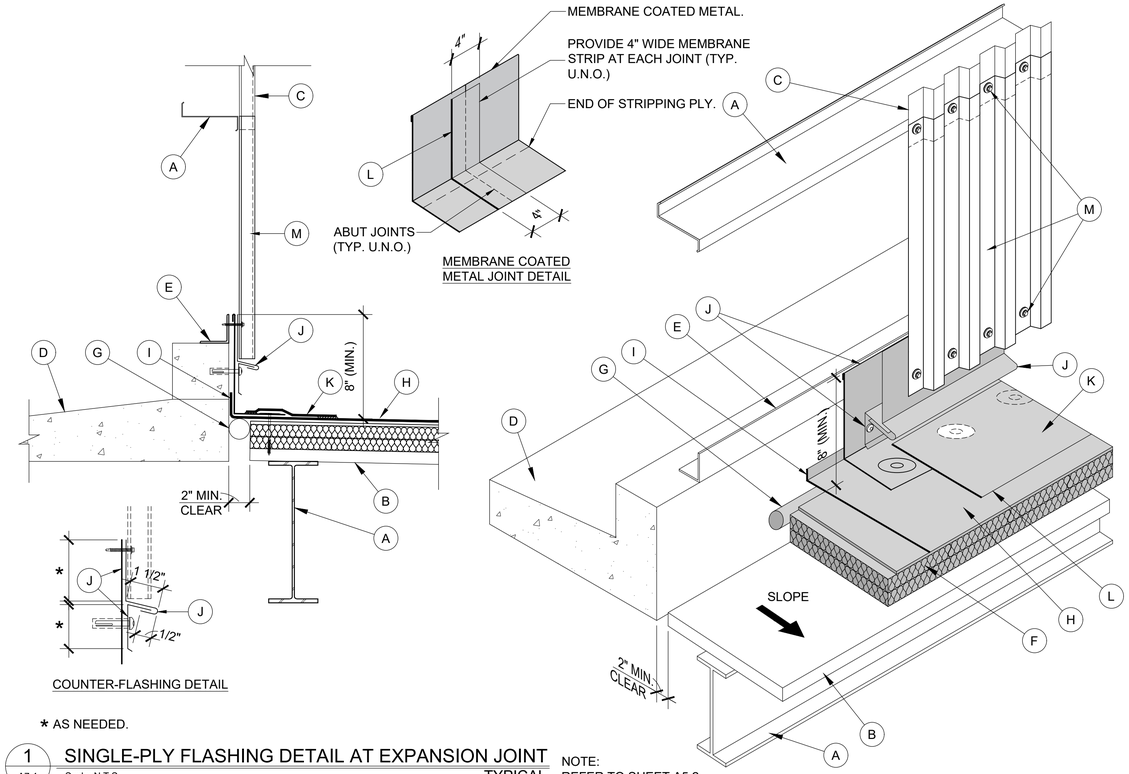
No.	Description	Date

SHEET NO.
A7.3

Date JANUARY 24, 2024

ROOF DETAILS

Scale: AS NOTED



* AS NEEDED.

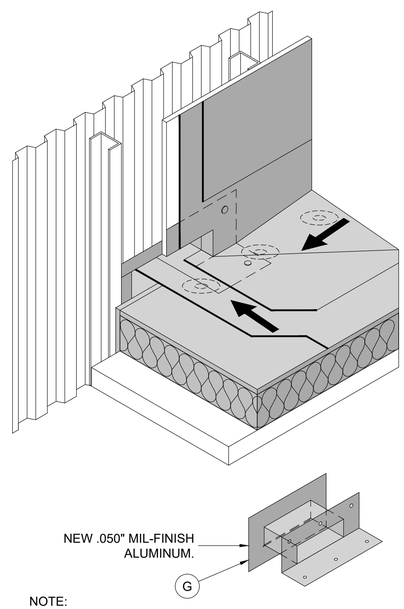
1 SINGLE-PLY FLASHING DETAIL AT EXPANSION JOINT
A7.4 Scale: N.T.S.

TYPICAL

NOTE: REFER TO SHEET A5.2

MATERIALS AND FASTENER KEY NOTES:

- (A) - EXISTING STRUCTURAL STEEL FRAMING.
- (B) - EXISTING METAL DECK.
- (C) - EXISTING METAL SIDING PANEL.
- (D) - EXISTING CONCRETE SLAB.
- (E) - EXISTING CONTINUOUS ANCHORED STEEL ANGLE.
- (F) - NEW INSULATION AND COVER BOARD. SEE ROOF ASSEMBLIES FOR ADDITIONAL REQUIREMENTS.
- (G) - PROVIDE CONTINUOUS BACKER ROD.
- (H) - NEW SINGLE-PLY FIELD MEMBRANE.
- (I) - ADHERE SINGLE-PLY MEMBRANE TO WALL. CLEAN SURFACES TO ADHERE MEMBRANE AS NEEDED.
- (J) - INSTALL NEW CONTINUOUS 22 GAUGE MEMBRANE COATED METAL FASTENED THRU SINGLE-PLY, ROOF ASSEMBLY AND INTO EXISTING METAL DECK. INCLUDE NEW .050" MIL-FINISHED ALUMINUM COUNTER-FLASHING WITH .063" MIL-FINISHED ALUMINUM CLEAT FASTENED WITH 1/4" ALLOY NAIL DRIVE EXPANSION FASTENERS @ 12" O/C. MAX. OR 3/16" Ø STAINLESS STEEL TAPCONS WITH METAL BACKED EPDM WASHER.
- (K) - INSTALL STRIPPING PLY.
- (L) - HOT AIR WELD LAPS AND SEAMS.
- (M) - REINSTALL PANEL. WHERE WALL PANEL FASTENERS ARE REMOVED TO ACCESS BEHIND PANELS, REPLACE OLD FASTENERS WITH NEW OVERSIZED STAINLESS STEEL FASTENERS WITH METAL BACK EPDM WASHERS.



NOTE:
1. TOP OF PARAPET CLOSURES AND COPING IS NOT SHOWN FOR CLARITY. SEE DETAILS 1 & 2/A7.2 FOR PARAPET WALL FLASHING AND METAL COPING.
2. ADJUST HEIGHT TO NO MORE THAN 4" ABOVE PRIMARY ROOF DRAINS.
3. MINIMUM OPENING SHALL BE 8"x12".
4. TURN METAL BACK 1/2" AT ALL EXPOSED EDGES SO THAT NO CUT EDGES ARE EXPOSED.
5. THERE SHALL BE NO EXPOSED FASTENERS ON THE EXTERIOR SIDE OF THE ESCUTCHEON PLATE.
6. SINGLE-PLY FLASHING SEAMS TO BE HOT AIR WELDED LIKE FIELD SEAMS .

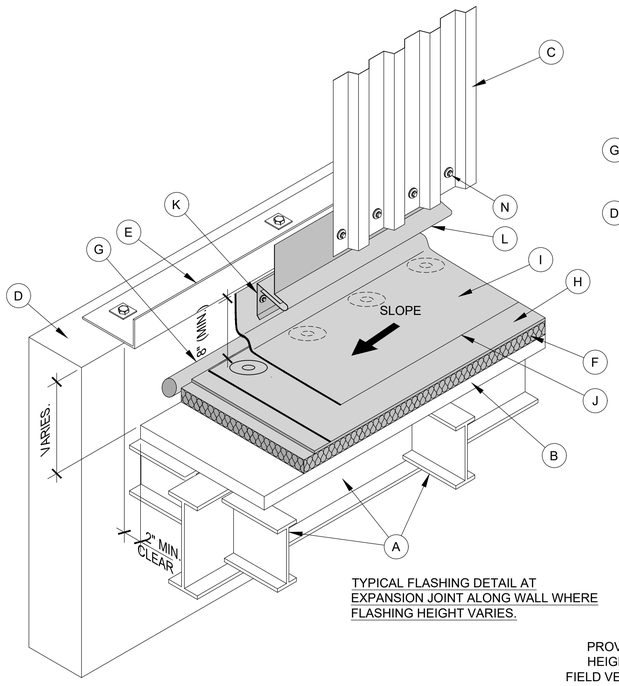
2 PRIMARY SCUPPER DETAIL
A7.4 Scale: N.T.S.

TYPICAL

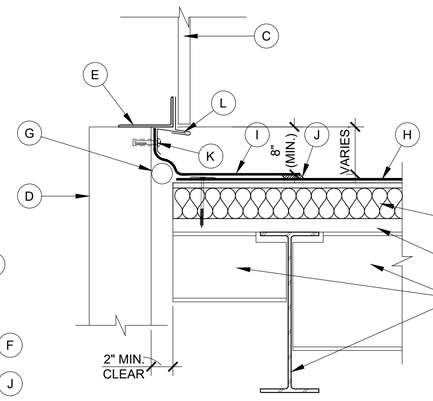
NOTE: REFER TO SHEET A5.2

MATERIALS AND FASTENER KEY NOTES:

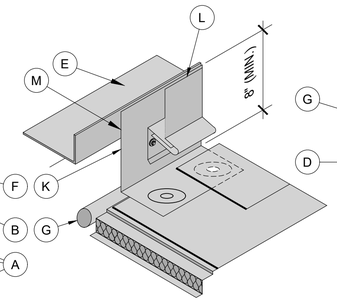
- (A) - EXISTING METAL DECK.
- (B) - EXISTING METAL STUD FRAMING.
- (C) - EXISTING COVER BOARD SHEATHING.
- (D) - EXISTING METAL SIDING PANEL.
- (E) - NEW INSULATION AND COVER BOARD. SEE ROOF ASSEMBLIES FOR ADDITIONAL REQUIREMENTS.
- (F) - NEW SINGLE-PLY FIELD MEMBRANE ATTACHED AS INDICATED. SINGLE-PLY SHALL EXTEND INTO SCUPPER OPENING AND ADHERE TO VERTICAL SURFACES.
- (G) - PROVIDE METAL SCUPPER FASTENED TO WALL. WELD ALL SEAMS AND JOINT.
- (H) - ADHERE SINGLE-PLY MEMBRANE TO WALL SHEATHING.
- (I) - HOT AIR WELD LAPS AND SEAMS.
- (J) - PROVIDE ADDITIONAL FRAMING AS NEEDED TO SECURE SCUPPER.

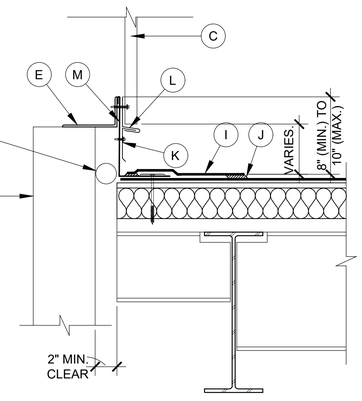


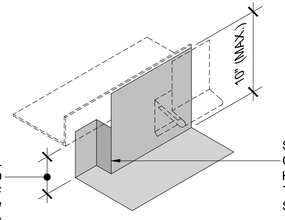
TYPICAL FLASHING DETAIL AT EXPANSION JOINT ALONG WALL WHERE FLASHING HEIGHT VARIES.



TYPICAL MEMBRANE COATED METAL DETAIL







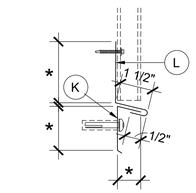
PROVIDE END CLOSURE. HEIGHT AS NEEDED AND FIELD VERIFY FROM TOP OF FINISHED ROOF AND BELOW EXISTING CONTINUOUS STEEL ANGLE.

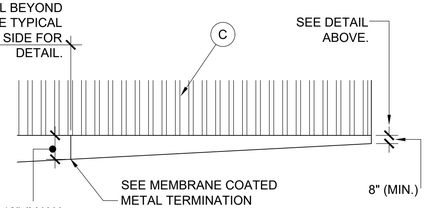
STOP "L" SHAPE MEMBRANE COATED METAL AT MAXIMUM HEIGHT OF 10" AND FOLLOW TYPICAL FLASHING DETAIL. SEE DETAIL LEFT SIDE.

MEMBRANE COATED METAL TERMINATION DETAIL

NO MEMBRANE COATED METAL BEYOND THE 10" (MAX.) HEIGHT. PROVIDE TYPICAL FLASHING DETAIL. SEE LEFT SIDE FOR DETAIL.

SEE DETAIL ABOVE.





COUNTER-FLASHING DETAIL

DIAGRAMMATIC ROOF SLOPE ELEVATION

* AS NEEDED.

3 SINGLE-PLY FLASHING DETAIL AT EXPANSION JOINT
A7.4 Scale: N.T.S.

TYPICAL

NOTE: REFER TO SHEET A5.2

MATERIALS AND FASTENER KEY NOTES:

- (A) - EXISTING STRUCTURAL STEEL FRAMING.
- (B) - EXISTING METAL DECK.
- (C) - EXISTING METAL SIDING PANEL.
- (D) - EXISTING C.M.U. CONCRETE WALL.
- (E) - EXISTING CONTINUOUS ANCHORED STEEL ANGLE.
- (F) - NEW INSULATION AND COVER BOARD. SEE ROOF ASSEMBLIES FOR ADDITIONAL REQUIREMENTS.
- (G) - PROVIDE CONTINUOUS BACKER ROD.
- (H) - NEW SINGLE-PLY FIELD MEMBRANE ATTACHED AS INDICATED.
- (I) - PROVIDE SINGLE-PLY STRIP OVER BACKER ROD.
- (J) - HOT AIR WELD LAPS AND SEAMS.
- (K) - NEW CONTINUOUS .063" MIL-FINISHED ALUMINUM METAL CLEAT. ATTACH CLEAT WITH 1/4" ALLOY NAIL DRIVE EXPANSION FASTENERS @ 12" O/C. MAX. OR 3/16" Ø STAINLESS STEEL TAPCONS WITH METAL BACKED EPDM WASHER.
- (L) - NEW CONTINUOUS .050" MIL-FINISHED ALUMINUM METAL COUNTER-FLASHING.
- (M) - INSTALL NEW CONTINUOUS 22 GAUGE MEMBRANE COATED METAL FASTENED THRU SINGLE-PLY, ROOF ASSEMBLY AND INTO EXISTING METAL DECK.
- (N) - WHERE WALL PANEL FASTENERS ARE REMOVED TO ACCESS BEHIND PANELS, REPLACE OLD FASTENERS WITH NEW OVERSIZED STAINLESS STEEL FASTENERS WITH METAL BACK EPDM WASHERS.

PBA Design Group
2742 JASON ST. TAMPA, FL 33619 www.pbadesigngroup.com

WASTE TO ENERGY FACILITY ROOF REPLACEMENT

PROJECT ADDRESS: 10500 BUCKINGHAM ROAD, FORT MYERS, FL 33905
CONSTRUCTION DOCUMENTS

ISSUE RECORD:

STATE OF FLORIDA · RALEIGH J. BECKHAM · AR97270 · REGISTERED ARCHITECT

Raleigh J. Beckham — Digitally signed by Raleigh J. Beckham, Date: 2024.01.22 17:22:31 -05'00'

No.	Description	Date

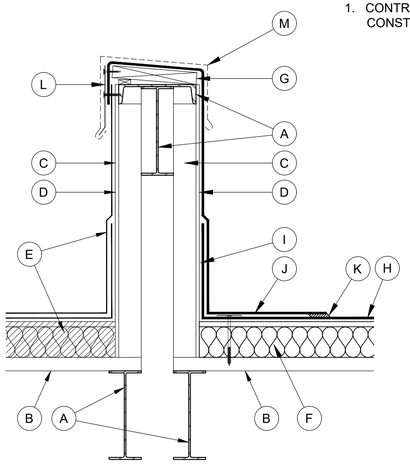
SHEET NO.

A7.4

Date JANUARY 24, 2024

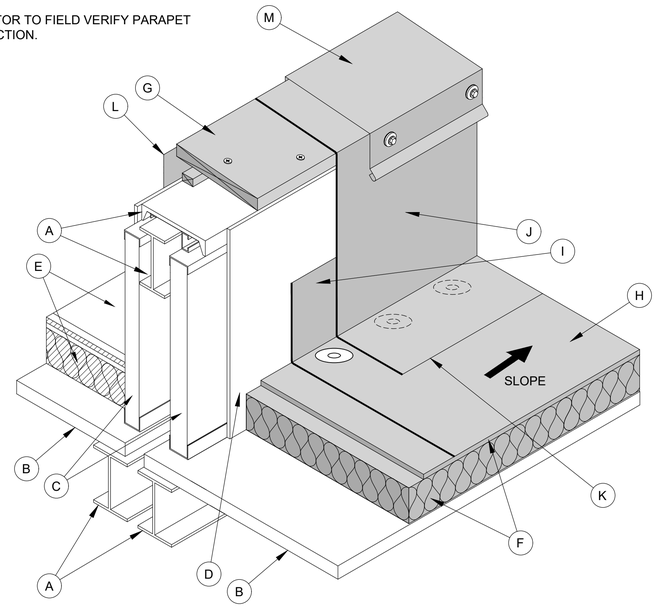
ROOF DETAILS

Scale: AS NOTED



NOTE:

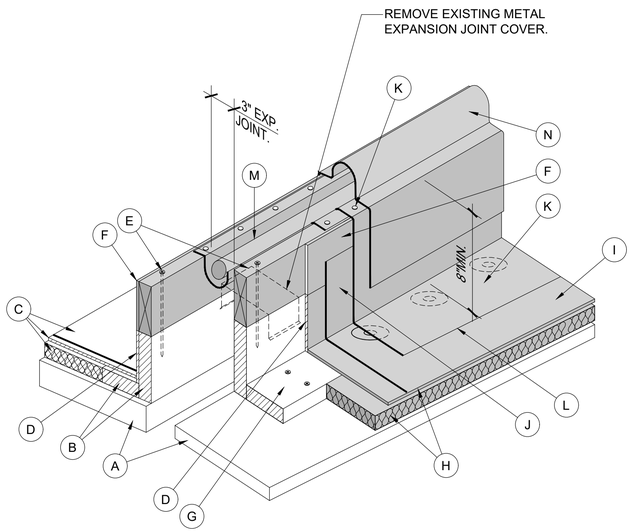
1. CONTRACTOR TO FIELD VERIFY PARAPET CONSTRUCTION.

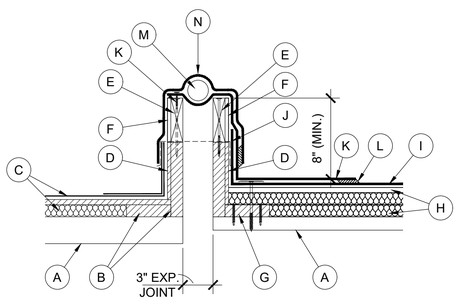


MATERIALS AND FASTENER KEY NOTES:

- (A) - EXISTING STRUCTURAL STEEL FRAMING.
- (B) - EXISTING METAL DECK.
- (C) - EXISTING METAL STUD FRAMING.
- (D) - EXISTING COVER BOARD SHEATHING.
- (E) - EXISTING INSULATION, COVER BOARD AND ROOF TO REMAIN OR BY OTHERS.
- (F) - NEW INSULATION AND COVER BOARD. SEE ROOF ASSEMBLIES FOR ADDITIONAL REQUIREMENTS.
- (G) - NEW PRESSURE TREATED OR EXISTING 2x WOOD NAILER. SEE DETAIL 1/A7.2 FOR REQUIREMENTS.
- (H) - NEW SINGLE-PLY FIELD MEMBRANE ATTACHED AS INDICATED.
- (I) - ADHERE SINGLE-PLY MEMBRANE TO WALL SHEATHING.
- (J) - EXTEND SINGLE-PLY OVER PARAPET WALL AS SHOWN AND ADHERE TO WALL. SEE SHEET A7.2 FOR REQUIREMENTS. NEW MEMBRANE SHALL LAP OVER EXISTING ROOF MEMBRANE.
- (K) - HOT AIR WELD LAPS AND SEAMS.
- (L) - CONTINUOUS METAL CLEAT. SEE 2/A7.2 FOR METAL TYPE, GAUGE AND FASTENING REQUIREMENTS.
- (M) - METAL COPING. SEE SHEET A7.2 FOR METAL TYPE, GAUGE AND FASTENING REQUIREMENTS.

1 A7.5 SINGLE-PLY FLASHING DETAIL AT PARAPET ROOF DIVIDER WALL
Scale: N.T.S.
NOTE: TYPICAL
REFER TO SHEET A5.2

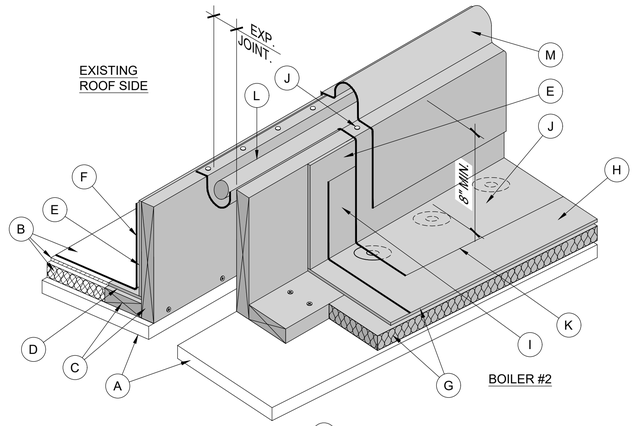


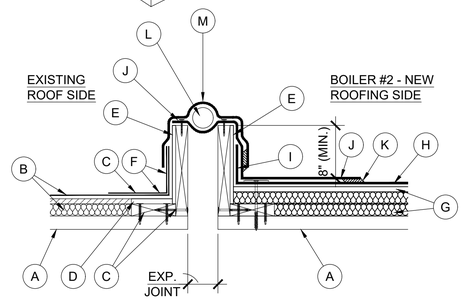


MATERIALS AND FASTENER KEY NOTES:

- (A) - EXISTING METAL DECK.
- (B) - EXISTING WOOD NAILERS TO REMAIN.
- (C) - EXISTING INSULATION, COVER BOARD AND ROOF MEMBRANE TO REMAIN.
- (D) - EXISTING COVER BOARD SHEATHING.
- (E) - PROVIDE 2x PRESSURE TREATED WOOD NAILER OVER EXISTING WOOD NAILER AND FASTENED WITH STAINLESS STEEL SCREWS @ 12" O/C. MAX. WOOD CURB HEIGHT TO MAINTAIN 8" (MIN.) ABOVE FINSIHED ROOF.
- (F) - PROVIDE COVER BOARD SHEATHING ATTACHED TO 2x WOOD NAILER. THICKNESS TO MATCH EXISTING.
- (G) - EXISTING WOOD NAILERS TO REMAIN . REATTACH NAILERS TO EXISTING METAL DECK.
- (H) - NEW INSULATION AND COVER BOARD. SEE ROOF ASSEMBLIES FOR ADDITIONAL REQUIREMENTS.
- (I) - NEW SINGLE-PLY FIELD MEMBRANE ATTACHED AS INDICATED.
- (J) - ADHERE SINGLE-PLY MEMBRANE TO WALL SHEATHING.
- (K) - EXTEND SINGLE-PLY OVER EXPANSION JOINT CURB AND PROVIDE A BELLOW AT JOINT AND FASTEN AS SHOWN. FASTEN SINGLE-PLY MEMBRANE WITH STAINLESS STEEL ANNULAR RING SHANK NAILS @ 6" O/C. (MAX.)
- (L) - HOT AIR WELD LAPS AND SEAMS.
- (M) - PROVIDE CONTINUOUS BACKER ROD.
- (N) - OVERLAY SINGLE-PLY MEMBRANE OVER BACKER ROD AS SHOWN AND EXTEND MEMBRANE OVER EXISTING ROOF MEMBRANE.

2 A7.5 SINGLE-PLY FLASHING DETAIL AT EXPANSION JOINT
Scale: N.T.S.
NOTE: TYPICAL
REFER TO SHEET A5.2





MATERIALS AND FASTENER KEY NOTES:

- (A) - EXISTING METAL DECK.
- (B) - EXISTING INSULATION, COVER BOARD AND ROOF MEMBRANE TO REMAIN.
- (C) - PULL BACK EXISTING MEMBRANE TO INSTALL NEW 2x PRESSURE TREATED NAILER AND CURB FASTEN TO METAL DECK WITH STAINLESS STEEL SCREWS @ 12" O/C. MAX. STAGGERED & WOOD TO WOOD @ 12" O/C. MAX. SAME WOOD CURB REQUIREMENTS WILL APPLY AT NEW ROOF SYSTEM SIDE (BOILER #2). WOOD CURB HEIGHT TO MAINTAIN 8" (MIN.) ABOVE FINISHED ROOF.
- (D) - PROVIDE COVER BOARD. THICKNESS TO MATCH EXISTING AT ROOF SIDE.
- (E) - PROVIDE 1/2" THICK COVER BOARD AT 2x WOOD CURB.
- (F) - ADHERE EXISTING MEMBRANE TO NEW CURB AND ROOF SURFACE AS NEEDED.
- (G) - NEW INSULATION AND COVER BOARD. SEE ROOF ASSEMBLIES FOR ADDITIONAL REQUIREMENTS.
- (H) - NEW SINGLE-PLY FIELD MEMBRANE ATTACHED AS INDICATED.
- (I) - ADHERE SINGLE-PLY MEMBRANE TO WALL SHEATHING.
- (J) - EXTEND FLASHING MEMBRANE OVER EXPANSION JOINT CURB AND PROVIDE A BELLOW AT JOINT AND FASTEN AS SHOWN. FASTEN SINGLE-PLY MEMBRANE WITH STAINLESS STEEL ANNULAR RING SHANK NAILS @ 6" O/C. (MAX.)
- (K) - HOT AIR WELD LAPS AND SEAMS.
- (L) - PROVIDE CONTINUOUS BACKER ROD.
- (M) - OVERLAY FLASHING MEMBRANE OVER BACKER ROD AS SHOWN AND EXTEND MEMBRANE OVER EXISTING ROOF MEMBRANE.

3 A7.5 SINGLE-PLY FLASHING DETAIL AT EXPANSION JOINT
Scale: N.T.S.
NOTE: TYPICAL
REFER TO SHEET A5.2

PBA Design Group
2742 JASON ST. TAMPA, FL 33619 www.pbadesigngroup.com

WASTE TO ENERGY FACILITY ROOF REPLACEMENT

PROJECT ADDRESS: 10500 BUCKINGHAM ROAD, FORT MYERS, FL 33905
CONSTRUCTION DOCUMENTS

ISSUE RECORD:

STATE OF FLORIDA — RALEIGH J. BECKHAM — AR97270 — REGISTERED ARCHITECT

Raleigh J. Beckham
Digitally signed by Raleigh J. Beckham
Date: 2024.01.22 09:23:16 -05'00'

No.	Description	Date

SHEET NO.

A7.5

Date JANUARY 24, 2024

ROOF DETAILS

Scale: AS NOTED

MATERIALS AND FASTENER KEY NOTES:

A - EXISTING PENETRATION.

B - EXISTING ROOF DECK WITH NEW INSULATION AND COVER BOARD. SEE ROOF ASSEMBLIES FOR ADDITIONAL REQUIREMENTS.

C - CUT INSULATION TIGHT AGAINST PIPE OR FILL GAPS IN INSULATION AROUND PIPE.

D - NEW SINGLE-PLY MEMBRANE. PROVIDE A MINIMUM OF (4) FASTENERS AROUND MEMBRANE AT PENETRATION.

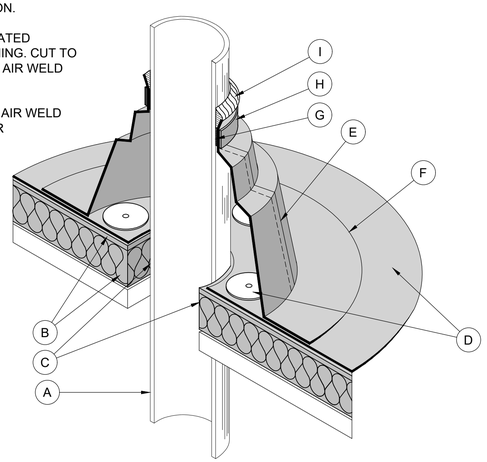
E - PROVIDE NEW PRE-FABRICATED MEMBRANE MOLDED FLASHING. CUT TO FIT PENETRATION AND HOT AIR WELD SEAM.

F - PROVIDE SEALANT OR HOT AIR WELD SEAM. SEE MANUFACTURER FOR RECOMMENDATIONS.

G - PROVIDE SEALANT BETWEEN PIPE AND PRE-FABRICATED MEMBRANE MOLDED FLASHING.

H - PROVIDE NEW STAINLESS STEEL WORM GEAR CLAMP WITH STAINLESS STEEL SCREW.

I - PROVIDE ADDITIONAL BEAD OF SEALANT AROUND PENETRATION.



1 A7.6 PENETRATION FLASHING DETAIL
Scale: N.T.S.
NOTE: TYPICAL
REFER TO SHEET A5.2

MATERIALS AND FASTENER KEY NOTES:

A - EXISTING PENETRATION (WF BEAM).

B - NEW SINGLE-PLY FIELD MEMBRANE.

C - PLACE FASTENER 2" MIN. ALL SIDES.

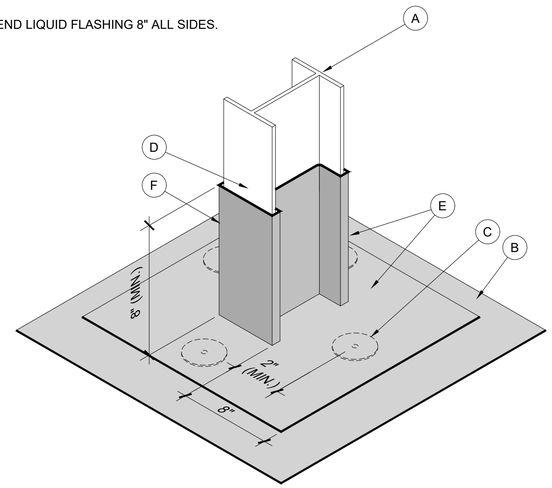
D - CLEAN AND PREP PENETRATION.

E - REFER TO MANUFACTURER'S GUIDELINES AND RECOMMENDED LIQUID FLASHING AND REINFORCING MAT.

F - EXTEND LIQUID FLASHING 8" ALL SIDES.

NOTE:

EXISTING ROOF DECK WITH NEW INSULATION AND COVER BOARD IS NOT SHOWN FOR CLARITY. REFER TO ROOF ASSEMBLIES ON PLAN SHEETS.



2 A7.6 PENETRATION FLASHING DETAIL AT IRREGULAR SHAPE
Scale: N.T.S.
NOTE: TYPICAL
REFER TO SHEET A5.2

MATERIALS AND FASTENER KEY NOTES:

A - EXISTING PENETRATION (STEEL ANGLE).

B - NEW SINGLE-PLY FIELD MEMBRANE.

C - PLACE FASTENER 2" MIN. ALL SIDES.

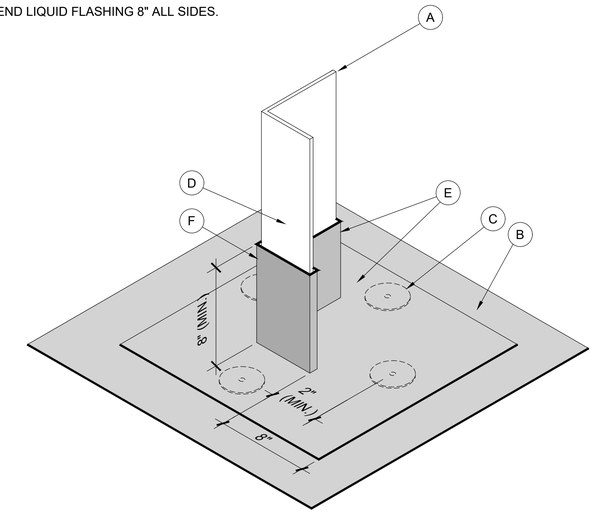
D - CLEAN AND PREP PENETRATION.

E - REFER TO MANUFACTURER'S GUIDELINES AND RECOMMENDED LIQUID FLASHING AND REINFORCING MAT.

F - EXTEND LIQUID FLASHING 8" ALL SIDES.

NOTE:

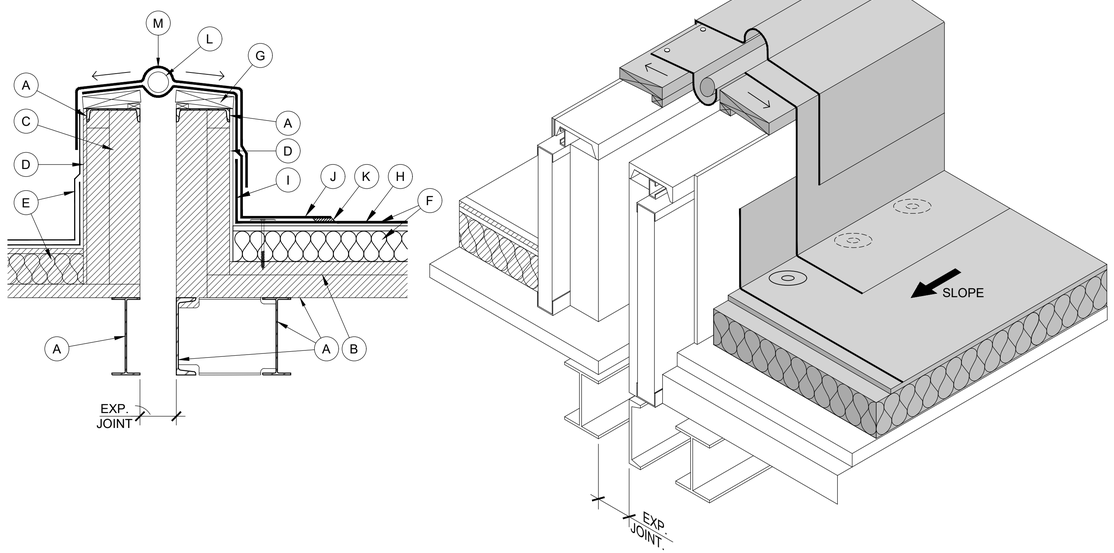
EXISTING ROOF DECK WITH NEW INSULATION AND COVER BOARD IS NOT SHOWN FOR CLARITY. REFER TO ROOF ASSEMBLIES ON PLAN SHEETS.



3 A7.6 PENETRATION FLASHING DETAIL AT IRREGULAR SHAPE
Scale: N.T.S.
NOTE: TYPICAL
REFER TO SHEET A5.2

NOTE:

1. CONTRACTOR TO FIELD VERIFY PARAPET CONSTRUCTION.



MATERIALS AND FASTENER KEY NOTES:

A - EXISTING STRUCTURAL STEEL FRAMING.

B - EXISTING METAL DECK.

C - EXISTING METAL STUD FRAMING.

D - EXISTING COVER BOARD SHEATHING.

E - EXISTING INSULATION, COVER BOARD AND ROOF TO REMAIN OR BY OTHERS.

F - NEW INSULATION AND COVER BOARD. SEE ROOF ASSEMBLIES FOR ADDITIONAL REQUIREMENTS.

G - NEW PRESSURE TREATED OR EXISTING 2x WOOD NAILER. SEE DETAIL 1/A7.2 FOR REQUIREMENTS AND ATTACHMENT.

H - NEW SINGLE-PLY FIELD MEMBRANE ATTACHED AS INDICATED.

I - ADHERE SINGLE-PLY MEMBRANE TO WALL SHEATHING.

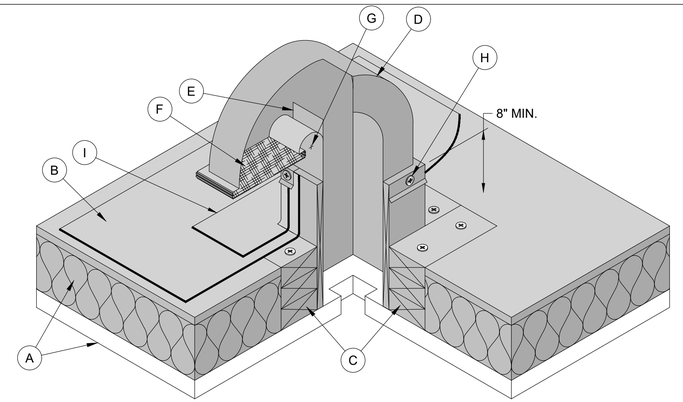
J - EXTEND FLASHING MEMBRANE OVER EXPANSION JOINT CURB AND PROVIDE A BELLOW AT JOINT AND FASTEN AS SHOWN. FASTEN SINGLE-PLY MEMBRANE WITH STAINLESS STEEL ANNULAR RING SHANK NAILS @ 6" O/C. (MAX.)

K - HOT AIR WELD LAPS AND SEAMS.

L - PROVIDE CONTINUOUS BACKER ROD.

M - OVERLAY FLASHING MEMBRANE OVER BACKER ROD AS SHOWN AND EXTED MEMBRANE OVER EXISTING ROOF MEMBRANE.

4 A7.6 SINGLE-PLY FLASHING DETAIL AT PARAPET ROOF DIVIDER WALL
Scale: N.T.S.
NOTE: TYPICAL
REFER TO SHEET A5.2



MATERIALS AND FASTENER KEY NOTES:

A - EXISTING ROOF DECK WITH NEW INSULATION. SEE ROOF ASSEMBLIES FOR ADDITIONAL REQUIREMENTS.

B - NEW SINGLE-PLY FIELD SHEET. ADHERE AT WALL/SURFACES WITH MANUFACTURER'S RECOMMENDED ADHESIVE.

C - REATTACH EXISTING NAILERS OR PROVIDE NEW PRESSURE TREATED NAILERS TO MATCH INSULATION HEIGHT. ATTACH NAILERS WITH #15 STAINLESS STEEL INSULATION SCREWS.

D - REUSE EXISTING GOOSENECK IF NOT DAMAGED. FOR NEW GOOSENECK UNITS, FABRICATE GOOSENECK UNIT FROM .050" MIL FINISHED ALUMINUM. WELD LAPS IN METAL. NO FASTENERS SHALL BE EXPOSED.

E - PROVIDE DAM INSIDE GOOSENECK.

F - PROVIDE HARDWARE CLOTH.

G - R = A/2

H - PROVIDE NEW #12-24 STAINLESS STEEL 5/16" H.W.H. (HEX WASHER HEAD) WITH METAL BACK EPDM WASHER @ 24" O/C. MAX.

I - NEW MEMBRANE FLASHING.

5 A7.6 GOOSE NECK VENT ON CURB DETAIL
Scale: N.T.S.
NOTE: TYPICAL
REFER TO SHEET A5.2

PBA Design Group
2742 JASON ST. TAMPA, FL 33619 www.pbadesigngroup.com

WASTE TO ENERGY FACILITY ROOF REPLACEMENT

PROJECT ADDRESS: 10500 BUCKINGHAM ROAD, FORT MYERS, FL 33905
CONSTRUCTION DOCUMENTS

ISSUE RECORD:

STATE OF FLORIDA
RALEIGH J. BECKHAM
AR97270
Digitally signed by Raleigh J. Beckham
Date: 2024.01.22 16:23:13 -05'00'

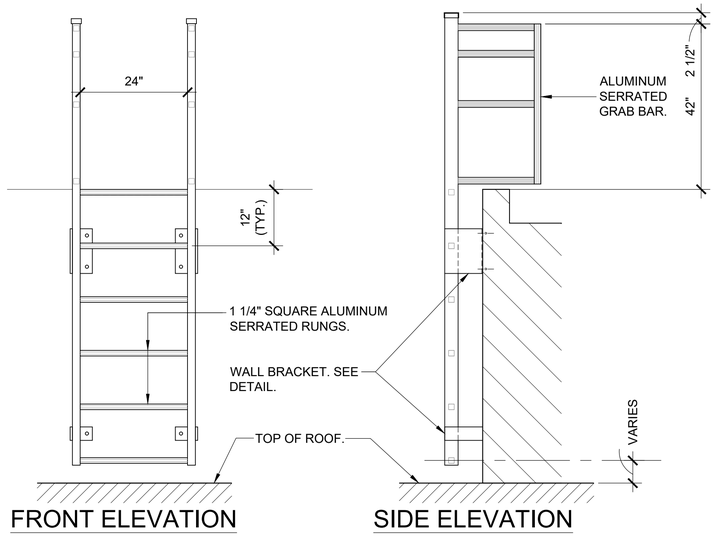
No.	Description	Date

SHEET NO.
A7.6

Date JANUARY 24, 2024

ROOF DETAILS

Scale: AS NOTED



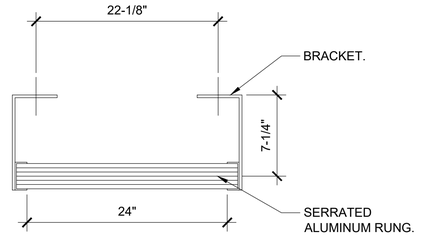
FRONT ELEVATION SIDE ELEVATION

NOTE:

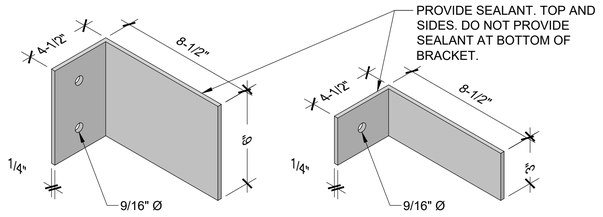
1. USE MARINE GRADE STAINLESS STEEL BOLTS TO SECURE LADDER TO WALL.
2. FOLLOW OSHA REQUIREMENTS.

1 A7.7 PERMANENT FIXED LADDER WITH WALK THRU DETAIL
Scale: N.T.S. TYPICAL

NOTE: REFER TO SHEET A5.2



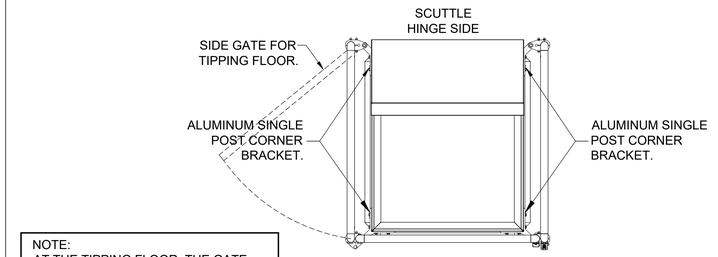
PLAN



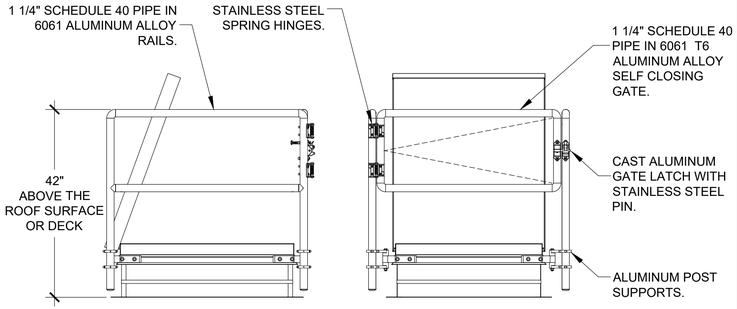
WALL BRACKET DETAIL

NOTE:
ALL BOLTS / FASTENERS REQUIRED TO ANCHOR LADDER ARE BY OTHERS.

FACTORY FINISH
ALUMINUM—MILL FINISH



NOTE:
AT THE TIPPING FLOOR, THE GATE SHALL BE ON THE SIDE OF THE ROOF HATCH.



NOTE:
1. REQUIRED FOR ALL ROOF HATCHES. NO EXCEPTION.
2. TELESCOPING POST IS NOT REQUIRED.

2 A7.7 ROOF HATCH RAIL SYSTEM DETAIL
Scale: N.T.S. TYPICAL

MATERIALS AND FASTENER KEY NOTES:

A - EXISTING METAL DECK.

B - INSTALL (2) NEW 12"x12"x3/16" STEEL BASE PLATE WITH (4) 1/2" Ø STAINLESS STEEL THRU BOLTS WITH NYLON INSERT NUTS ONE BASE PLATE BELOW EXISTING STEEL DECK AND ONE BASE PLATE ON TOP OF EXISTING STEEL PLATE.

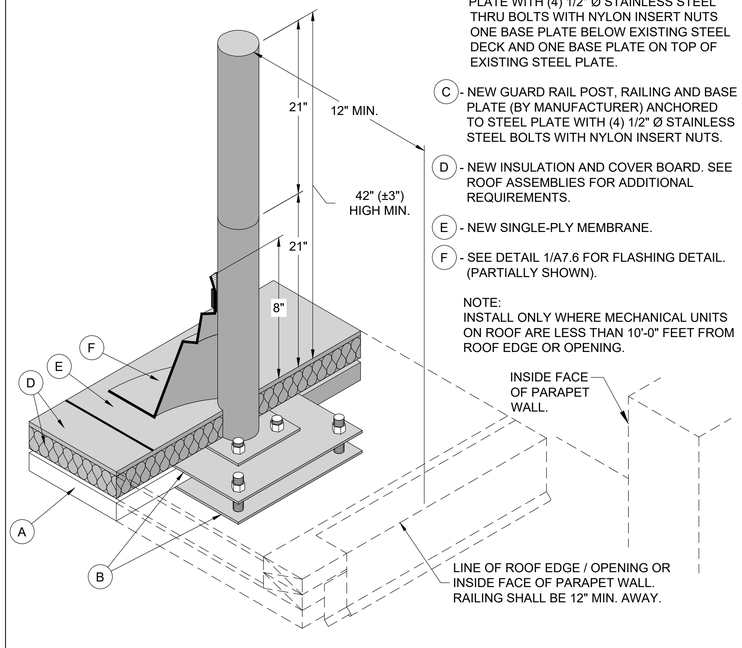
C - NEW GUARD RAIL POST, RAILING AND BASE PLATE (BY MANUFACTURER) ANCHORED TO STEEL PLATE WITH (4) 1/2" Ø STAINLESS STEEL BOLTS WITH NYLON INSERT NUTS.

D - NEW INSULATION AND COVER BOARD. SEE ROOF ASSEMBLIES FOR ADDITIONAL REQUIREMENTS.

E - NEW SINGLE-PLY MEMBRANE.

F - SEE DETAIL 1/A7.6 FOR FLASHING DETAIL. (PARTIALLY SHOWN).

NOTE:
INSTALL ONLY WHERE MECHANICAL UNITS ON ROOF ARE LESS THAN 10'-0" FEET FROM ROOF EDGE OR OPENING.



3 A7.7 SAFETY RAILING SYSTEM DETAIL
Scale: N.T.S. TYPICAL

NOTE: REFER TO SHEETS A5.1 & A5.2

MATERIAL KEY NOTES:

A - EXISTING WALL STRUCTURE.

B - EXISTING ROOF DECK WITH NEW ROOF SYSTEM.

C - NEW METAL COUNTER-FLASHING AGAINST WALL OR EXPANSION JOINT AT WALL.

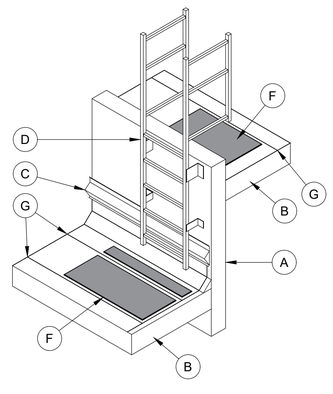
D - NEW LADDER.

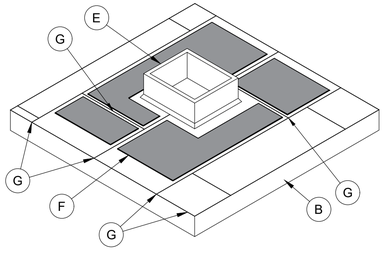
E - NEW OR EXISTING ROOF CURB.

F - INSTALL WALK PAD / TREADS AROUND ROOF CURBS WHERE SHOWN ON PLAN OR AT LADDER LANDING LOCATIONS.

G - INDICATES LAP IN ROOF MEMBRANE.

NOTE:
1. ADDITIONAL WALK PAD/TREAD(S) ARE REQUIRED AT LADDER LANDING LOCATIONS, ROOF HATCHES, MECHANICAL EQUIPMENT THAT REQUIRES PERIODIC MAINTENANCE.
2. DO NOT INSTALL WALK PADS OVER ROOF MEMBRANE LAPS.





4 A7.7 WALK PAD / TREAD DETAIL
Scale: N.T.S. TYPICAL

NOTE: REFER TO SHEETS A5.1 & A5.2

MATERIALS AND FASTENER KEY NOTES:

A - EXISTING ROOF DECK.

B - EXISTING OR NEW ROOF CURB.

C - ATTACHMENT PER DETAIL 2/A7.1

D - NEW INSULATION.

E - NEW COVER BOARD.

F - NEW 3/4" PRESSURE TREATED WOOD SHEATHING COVER.

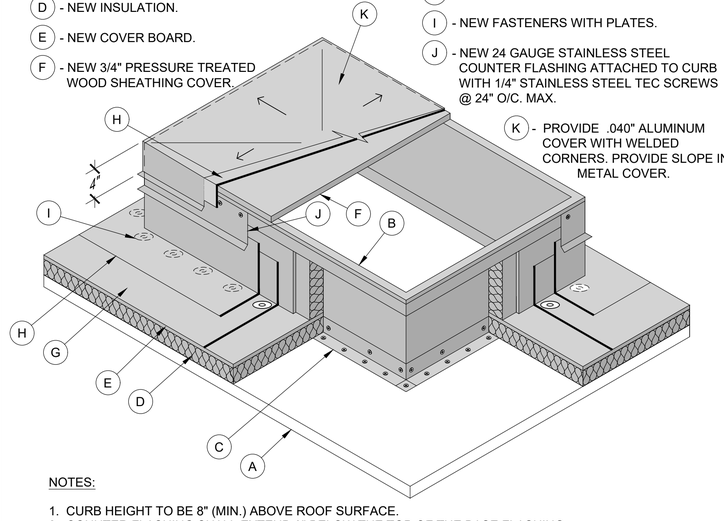
G - NEW SINGLE-PLY FIELD SHEET. ADHERE AT WALL/VERTICAL SURFACES WITH MANUFACTURER'S RECOMMENEDED ADHESIVE.

H - NEW MEMBRANE FLASHING.

I - NEW FASTENERS WITH PLATES.

J - NEW 24 GAUGE STAINLESS STEEL COUNTER FLASHING ATTACHED TO CURB WITH 1/4" STAINLESS STEEL TEC SCREWS @ 24" O/C. MAX.

K - PROVIDE .040" ALUMINUM COVER WITH WELDED CORNERS. PROVIDE SLOPE IN METAL COVER.



NOTES:
1. CURB HEIGHT TO BE 8" (MIN.) ABOVE ROOF SURFACE.
2. COUNTER FLASHING SHALL EXTEND 3" BELOW THE TOP OF THE BASE FLASHING.
3. SEAL TOP OF SINGLE-PLY MEMBRANE WITH MANUFACTURER'S RECOMMENDED SEALANT.
4. SECURE NEW CURBS TO DECK TO MEET REQUIRED WIND LOADS.
5. SINGLE-PLY FIELD MEMBRANE HEIGHT SHALL BE A MINIMUM OF 8" ABOVE THE FINISHED ROOF HEIGHT.
6. WHERE CURBS NEED TO BE EXTENDED TO ACHIEVE THE 8" (MIN.) REQUIRED HEIGHT, SEE DETAIL 4/A7.1
7. INSTALL WATER DIVERTERS (CRICKETS) SEE PLAN.

5 A7.7 CURB COVER DETAIL FOR FUTURE ROOF TOP EQUIPMENT
Scale: N.T.S. TYPICAL

NOTE: REFER TO SHEET A5.2

PBA Design Group
2742 JASON ST. TAMPA, FL 33619 www.pbadesigngroup.com

WASTE TO ENERGY FACILITY
ROOF REPLACEMENT

PROJECT ADDRESS: 10500 BUCKINGHAM ROAD, FORT MYERS, FL 33905
CONSTRUCTION DOCUMENTS

ISSUE RECORD:

STATE OF FLORIDA — RALEIGH J. BECKHAM — AR97270 — Digitally signed by Raleigh J. Beckham Date: 2024.01.22 13:37:36 -05'00'

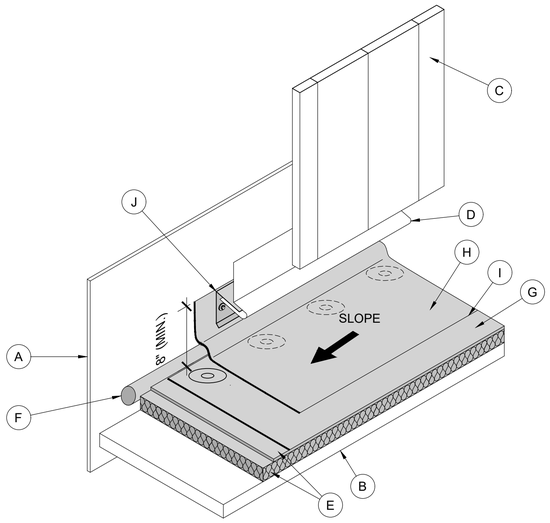
No.	Description	Date

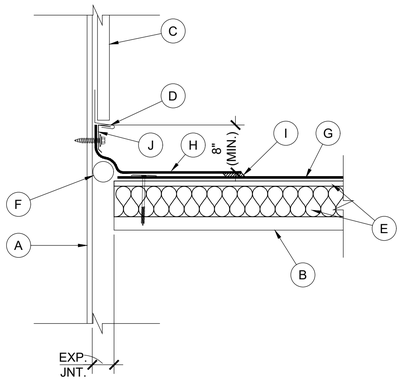
SHEET NO.
A7.7

Date JANUARY 24, 2024

ROOF DETAILS

Scale: AS NOTED





MATERIALS AND FASTENER KEY NOTES:

A - EXISTING SUBSTRATE WOOD OR CEMENT BOARD.

B - EXISTING METAL DECK.

C - EXISTING METAL SIDING PANEL.

D - EXISTING CONTINUOUS METAL CLOSURE TO REMAIN.

E - NEW INSULATION AND COVER BOARD. SEE ROOF ASSEMBLIES FOR ADDITIONAL REQUIREMENTS.

F - PROVIDE CONTINUOUS BACKER ROD.

G - NEW SINGLE-PLY FIELD MEMBRANE ATTACHED AS INDICATED.

H - PROVIDE SINGLE-PLY STRIP OVER BACKER ROD.

I - HOT AIR WELD LAPS AND SEAMS.

J - NEW CONTINUOUS .063" MIL-FINISHED ALUMINUM METAL CLEAT. ATTACH CLEAT WITH #12-24 STAINLESS STEEL 5/16" H.W.H. WITH METAL BACKED EPDM WASHER @ 12" O/C. MAX.

NOTE:
WHERE EXISTING METAL CLOSURE IS MISSING, INSTALL NEW METAL CLOSURE. PROFILE TO MATCH EXISTING. ATTACH EACH END WITH STAINLESS STEEL FASTENERS OR RIVETS. SEE PHOTOGRAPH 10 & 11/A2.5 FOR REFERENCE.

1 A7.8 SINGLE-PLY FLASHING DETAIL AT EXPANSION JOINT
Scale: N.T.S.
NOTE: TYPICAL
REFER TO SHEET A5.2

MATERIALS AND FASTENER KEY NOTES:

A - EXISTING ROOF DECK.

B - EXISTING ROOF CURB.

C - REMOVE EXISTING METAL COUNTER-FLASHING.

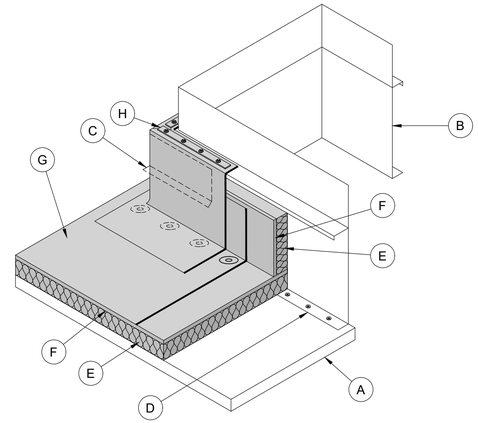
D - ATTACHMENT PER DETAIL 2/A7.1

E - NEW INSULATION.

F - NEW COVER BOARD.

G - NEW SINGLE-PLY FIELD SHEET. ADHERE AT WALL/VERTICAL SURFACES WITH MANUFACTURER'S RECOMMENEDED ADHESIVE.

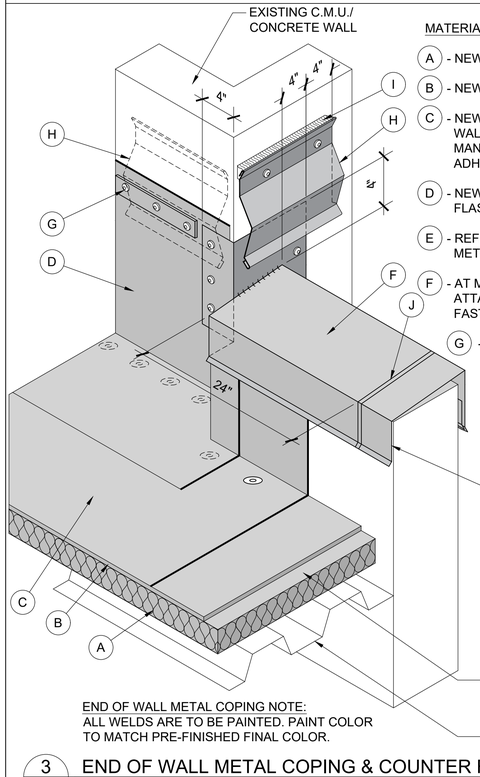
H - NEW MEMBRANE FLASHING. EXTEND FLASHING AS SHOWN AND ATTACH TO TOP OF CURB WITH 1/4" THICK ALUMINUM CONTINUOUS BAR ATTACHED TO CURB WITH #12-24 STAINLESS STEEL 5/16" H.W.H. WITH METAL BACKED EPDM WASHER @ 12" O/C. MAX.



NOTES:

1. CURB HEIGHT TO BE 8" (MIN.) ABOVE ROOF SURFACE.
2. SEAL TOP OF SINGLE-PLY MEMBRANE WITH MANUFACTURER'S RECOMMENDED SEALANT.
3. SECURE NEW CURBS TO DECK TO MEET REQUIRED WIND LOADS.
4. SINGLE-PLY FIELD MEMBRANE HEIGHT SHALL BE A MINIMUM OF 8" ABOVE THE FINISHED ROOF HEIGHT.

2 A7.8 CURB FLASHING DETAIL AIR CONDITIONER CURBS
Scale: N.T.S.
NOTE: TYPICAL
REFER TO SHEET A5.2



MATERIALS AND FASTENER KEY NOTES:

A - NEW INSULATION.

B - NEW COVER BOARD.

C - NEW SINGLE-PLY FIELD SHEET. ADHERE AT WALL/VERTICAL SURFACES WITH MANUFACTURER'S RECOMMENDED ADHESIVE.

D - NEW MEMBRANE FLASHING. EXTEND FLASHING 8" (MIN.)

E - REFER TO METAL COPING DETAIL FOR METAL TYPE AND GAUGE.

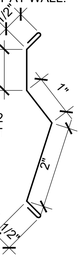
F - AT METAL COPING WELD ALL FLANGES AND ATTACH TO WALL WITH 1/4" ALLOY EXP. FASTENERS (3) PER LEG. PAINT WELDS.

G - PROVIDE 1/4" x 1 1/4" ALUMINUM TERMINATION BAR. PROVIDE 1/4" EXPANSION FASTENERS @ 12" O/C. MAX.

H - REFER TO SURFACE MOUNTED COUNTER FLASHING DETAIL FOR METAL TYPE AND GAUGE AND ATTACHMENT AT WALL. MITER CORNERS AT COUNTER FLASHING AND WELD.

I - NEW SEALANT.

J - SEE DETAIL 1/A7.2 FOR DRIVE CLEAT JOINT COVER.



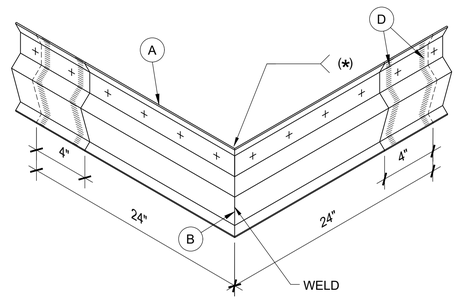
NEW ROOF ASSEMBLY OVER EXISTING ROOF DECK. REFER TO ROOF PLANS AND ROOF ASSEMBLY DETAILS.

EXISTING ROOF DECK.

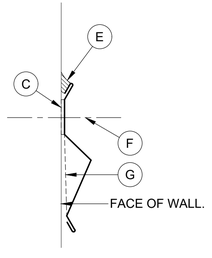
COUNTER FLASHING PROFILE

END OF WALL METAL COPING NOTE:
ALL WELDS ARE TO BE PAINTED. PAINT COLOR TO MATCH PRE-FINISHED FINAL COLOR.

3 A7.8 END OF WALL METAL COPING & COUNTER FLASHING DETAIL
Scale: N.T.S.
NOTE: TYPICAL
REFER TO SHEET A5.2



COUNTER FLASHING AT OUTTER CORNER



COUNTER FLASHING PROFILE

MATERIAL AND FASTENER KEY NOTES:

A - NEW .032" MIL FINISHED SURFACE MOUNTED COUNTER FLASHING. SHOP FABRICATION TO CONFIGURATION SHOWN. PROVIDE 4" END PLATES AT ALL END CONDITIONS. WELD SECTIONS TO CONFORM TO FIELD CONDITIONS. HEM ALL EDGES. PRE-DRILL ALL HOLES AT FASTENER LOCATIONS.

B - CORNER SECTIONS AND BENDS SHALL BE PRE-FABRICATED AT 24" OUTSIDE OF CORNERS AND WELDED SOLID. "DO NOT FIELD SPLICE CORNERS.

C - PROVIDE SPECIFIED FOAM BACKER TAPE. APPLY CONTINUOUS LENGTHS TO BACK OF FLASHING.

D - LAP ALL JOINTS 4" (MIN.). APPLY TWO CONTINUOUS BEADS OF SPECIFIED SEALANT BETWEEN METAL AT LAPS.

E - APPLY CONTINUOUS BEAD OF SPECIFIED SEALANT AT TOP FLARE OF COUNTER FLASHING. PROVIDE TOOLS AS NECESSARY TO PROVIDE UNIFORM, SLOPING AND A FULLY ADHERED SEALANT BEAD (TYPICAL).

F - PROVIDE 1/4" ALLOY EXPANSION FASTENERS @ 12" O/C. MAX. FOR MASONRY / CONCRETE.
USE #12 STAINLESS STEEL SCREWS WITH METAL BACKED EPDM WASHERS @ 12" O/C. MAX. FOR ATTACHMENT TO METAL OR WOOD.

G - PROVIDE END CLOSURE PLATES TYPICAL.

NOTES:

(*) REFER TO AWS D9.1/D9.1M:2018 - SHEET METAL CODE FOR WELDING GUIDELINES.

4 A7.8 SURFACE MOUNTED COUNTER FLASHING DETAIL
Scale: N.T.S.
NOTE: TYPICAL
REFER TO THIS SHEET.

MATERIALS AND FASTENER KEY NOTES:

A - NEW INSULATION

B - NEW COVER BOARD.

C - NEW SINGLE-PLY FIELD SHEET. ADHERE AT WALL/VERTICAL SURFACES WITH MANUFACTURER'S RECOMMENDED ADHESIVE. EXTEND FLASHING 8" (MIN.)

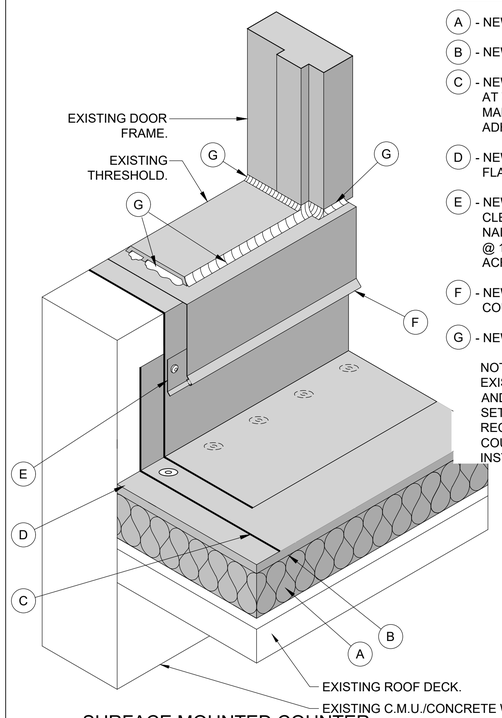
D - NEW MEMBRANE FLASHING. EXTEND FLASHING OVER THRESHOLD.

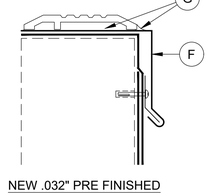
E - NEW .063" MIL-FINISHED ALUMINUM CLEAT. ATTACH CLEAT WITH 1/4" ALLOY NAIL DRIVE EXPANSION FASTENERS @ 12" O/C. MAX. CLEAT SHALL RUNS ACROSS WIDTH OF OPENING.

F - NEW .032" PRE FINISHED ALUMINUM COUNTER-FLASHING.

G - NEW SEALANT.

NOTES:
EXISTING THRESHOLD TO BE REMOVED AND REINSTALLED OR REPLACED AND SET IN A BED OF MANUFACTURER'S RECOMMENDED SEALANT AFTER COUNTER FLASHING HAS BEEN INSTALLED.





NEW .032" PRE FINISHED ALUMINUM PROFILE

5 A7.8 SURFACE MOUNTED COUNTER FLASHING DETAIL AT THRESHOLD
Scale: N.T.S.
NOTE: TYPICAL
REFER TO SHEET A5.2

PBA Design Group
2742 JASON ST. TAMPA, FL 33619 www.pbadesigngroup.com

WASTE TO ENERGY FACILITY ROOF REPLACEMENT

PROJECT ADDRESS: 10500 BUCKINGHAM ROAD, FORT MYERS, FL 33905
CONSTRUCTION DOCUMENTS

ISSUE RECORD:

STATE OF FLORIDA
RALEIGH J. BECKHAM
AR97270
Digitally signed by Raleigh J. Beckham
Date: 2024.01.22 13:29:29 -05'00'

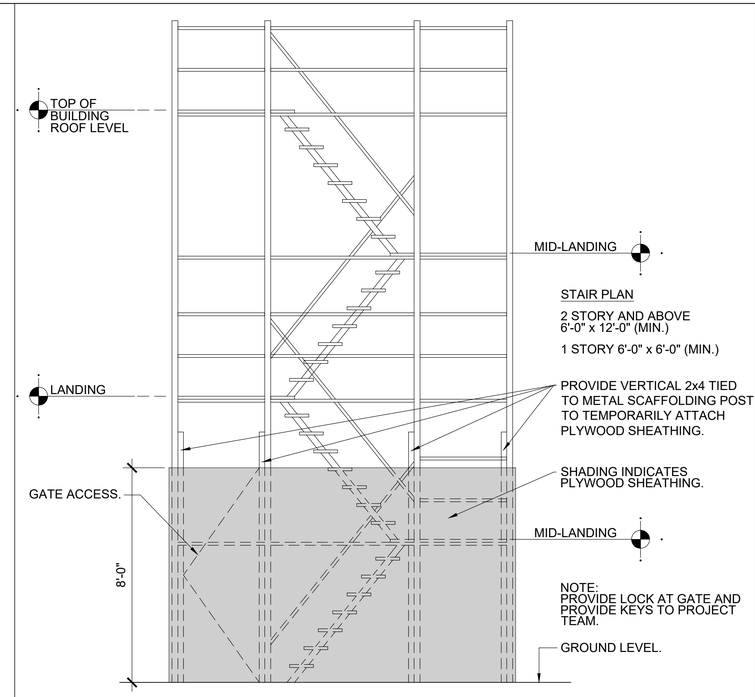
No.	Description	Date

SHEET NO.
A7.8

Date JANUARY 24, 2024

ROOF DETAILS

Scale: AS NOTED



1 A7.9 TEMPORARY STAIR(S) DIAGRAM

Scale: N.T.S. TYPICAL

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WASTE TO ENERGY FACILITY ROOF REPLACEMENT

PROJECT ADDRESS: 10500 BUCKINGHAM ROAD, FORT MYERS, FL 33905
CONSTRUCTION DOCUMENTS

ISSUE RECORD:

STATE OF FLORIDA
RALEIGH J. BECKHAM
AR97270
REGISTERED ARCHITECT

Raleigh J. Beckham
Digitally signed by Raleigh J. Beckham
Date: 2024.01.22 10:28:20 -05'00'

No.	Description	Date

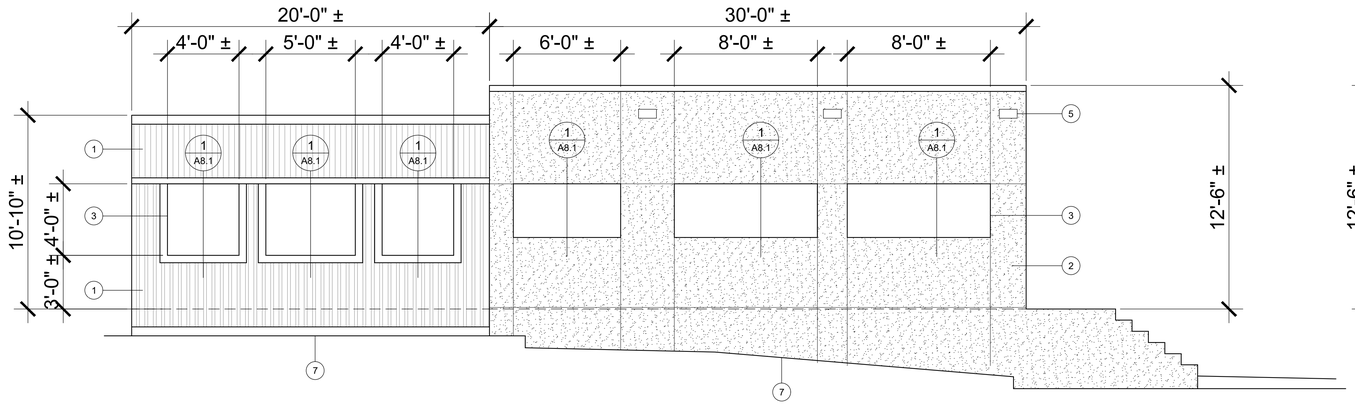
SHEET NO.

A7.9

Date JANUARY 24, 2024

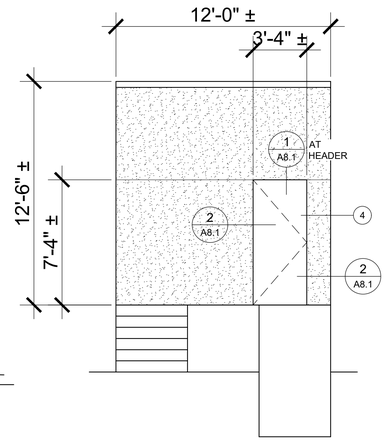
ROOF DETAILS

Scale: AS NOTED



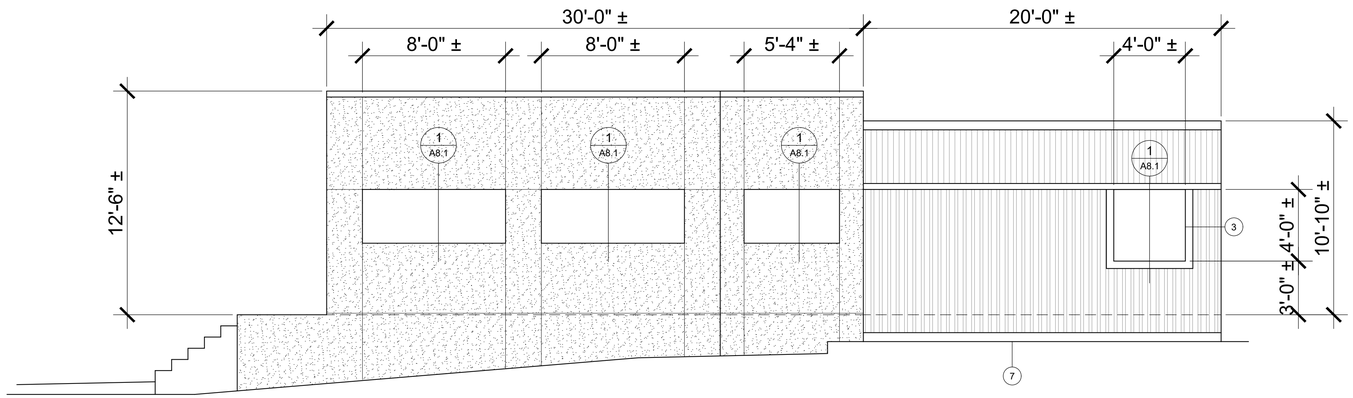
SCALE HOUSE "A" - EAST SIDE ELEVATION

Scale: N.T.S.



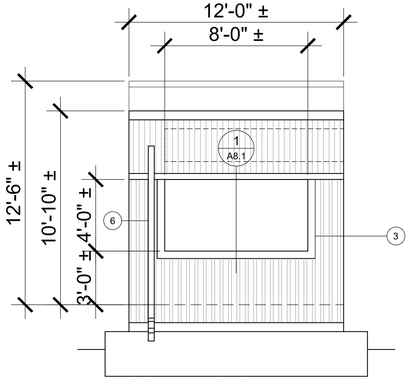
SCALE HOUSE "A" - NORTH SIDE ELEVATION

Scale: N.T.S.



SCALE HOUSE "A" - WEST SIDE ELEVATION

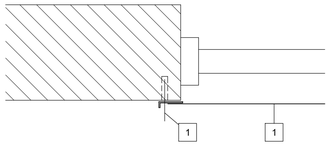
Scale: N.T.S.



SCALE HOUSE "A" - SOUTH SIDE ELEVATION

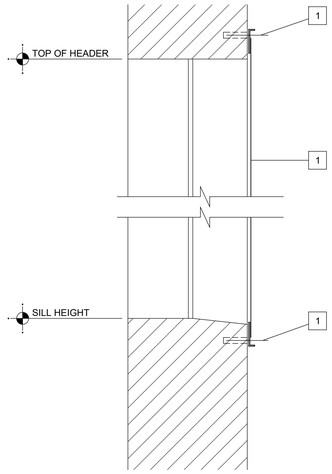
Scale: N.T.S.

NOTE:
SEE SECTION 1/A8.1 FOR HEADER CONNECTION FOR DOOR.



2 A8.1 SECTION AT DOOR AND WINDOW JAMB

Scale: N.T.S.



1 A8.1 SECTION AT WINDOW

Scale: N.T.S.

GENERAL NOTES:

1. ELEVATIONS ARE NOT TO SCALE UNLESS NOTED OTHERWISE.
2. DIMENSIONS SHOWN ARE APPROXIMATE. CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS BEFORE WORK.
3. ELEVATION PENETRATIONS AND EQUIPMENT UNIT LOCATIONS ARE APPROXIMATE.

BUILDING ELEVATION KEY NOTES FOR EXISTING CONDITIONS:

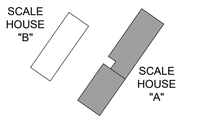
1. EXISTING METAL PANEL SIDING.
2. EXISTING STUCCO FINISH.
3. EXISTING WINDOW(S).
4. EXISTING DOOR.
5. EXISTING SCUPPER.
6. EXISTING DOWNSPOUT.
7. EXISTING RAMP AND SCALE SURFACE.

KEY NOTES FOR NEW STORM COVERS:

1. NEW HURRICANE FABRIC. SEE MANUFACTURER INSTALLATION NOTES FOR ATTACHMENT AROUND DOORS AND WINDOWS.

NOTES:

1. REFER TO STRUCTURAL DRAWINGS FOR ADDITIONAL REQUIREMENTS.
2. NO PART OF THE MOUNTING HARDWARE SHALL PROTRUDE PAST THE FACE OF THE EXISTING BUILDING.



KEY PLAN

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Raleigh J. Beckham
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Date: 2024.01.22 15:29:16 -05'00'

No.	Description	Date

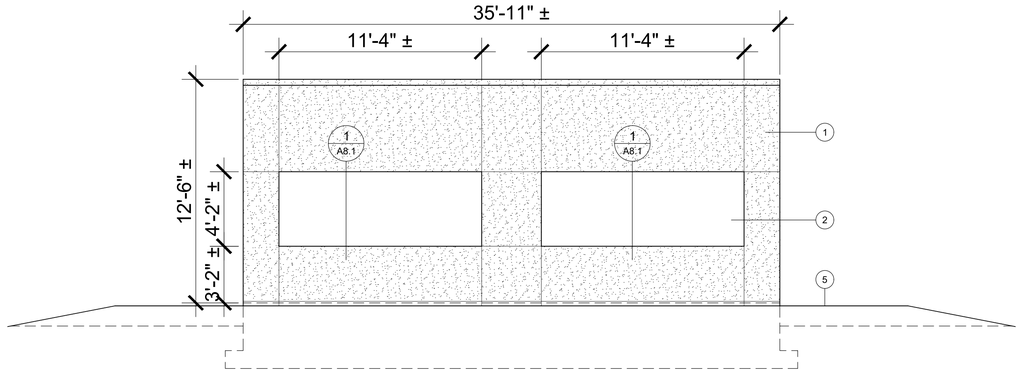
SHEET NO.

A8.1

Date JANUARY 24, 2024

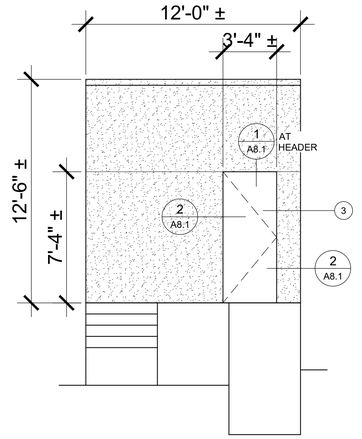
SCALE HOUSE ELEVATIONS

Scale: AS NOTED



SCALE HOUSE "B" - EAST SIDE ELEVATION

Scale: N.T.S.



SCALE HOUSE "B" -
NORTH SIDE ELEVATION

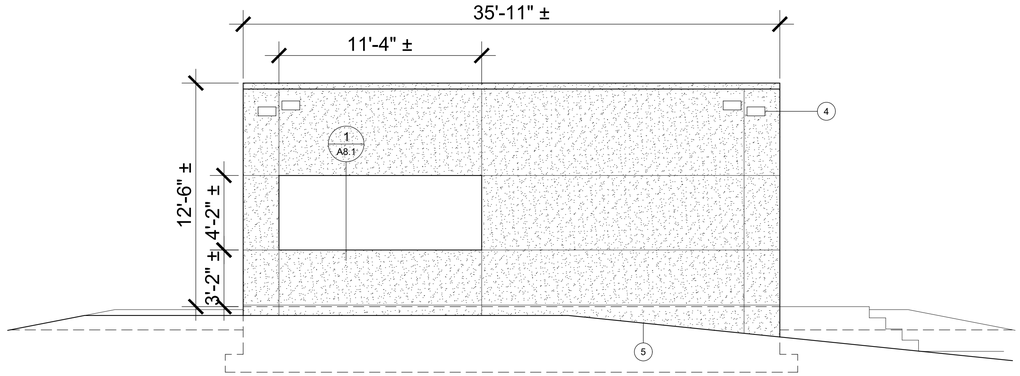
Scale: N.T.S.

GENERAL NOTES:

1. ELEVATIONS ARE NOT TO SCALE UNLESS NOTED OTHERWISE.
2. DIMENSIONS SHOWN ARE APPROXIMATE. CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS BEFORE WORK.
3. ELEVATION PENETRATIONS AND EQUIPMENT UNIT LOCATIONS ARE APPROXIMATE.

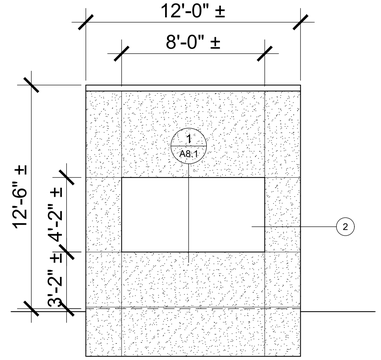
BUILDING ELEVATION KEY NOTES FOR EXISTING CONDITIONS:

1. EXISTING STUCCO FINISH.
2. EXISTING WINDOW(S).
3. EXISTING DOOR.
4. EXISTING SCUPPER.
5. EXISTING RAMP AND SCALE SURFACE.



SCALE HOUSE "B" - WEST SIDE ELEVATION

Scale: N.T.S.

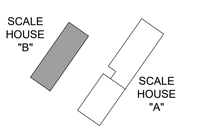


SCALE HOUSE "B" -
SOUTH SIDE ELEVATION

Scale: N.T.S.

NOTES:

1. REFER TO STRUCTURAL DRAWINGS FOR ADDITIONAL REQUIREMENTS.
2. NO PART OF THE MOUNTING HARDWARE SHALL PROTRUDE PAST THE FACE OF THE EXISTING BUILDING.



KEY PLAN

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No.	Description	Date

SHEET NO.

A8.2

Date JANUARY 24, 2024

SCALE HOUSE ELEVATIONS

Scale: AS NOTED