CONSTRUCTION DOCUMENTS

SOLID WASTE ADMINISTRATION BUILDING ORANGE COUNTY GOVERNMENT ROOFING REPLACEMENT AND REPAIR PROJECT

5901 YOUNG PINE ROAD ORLANDO, FLORIDA 32829

PREPARED FOR:



PO NO. 17906008

MAY 8, 2019



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DRAWING INDEX

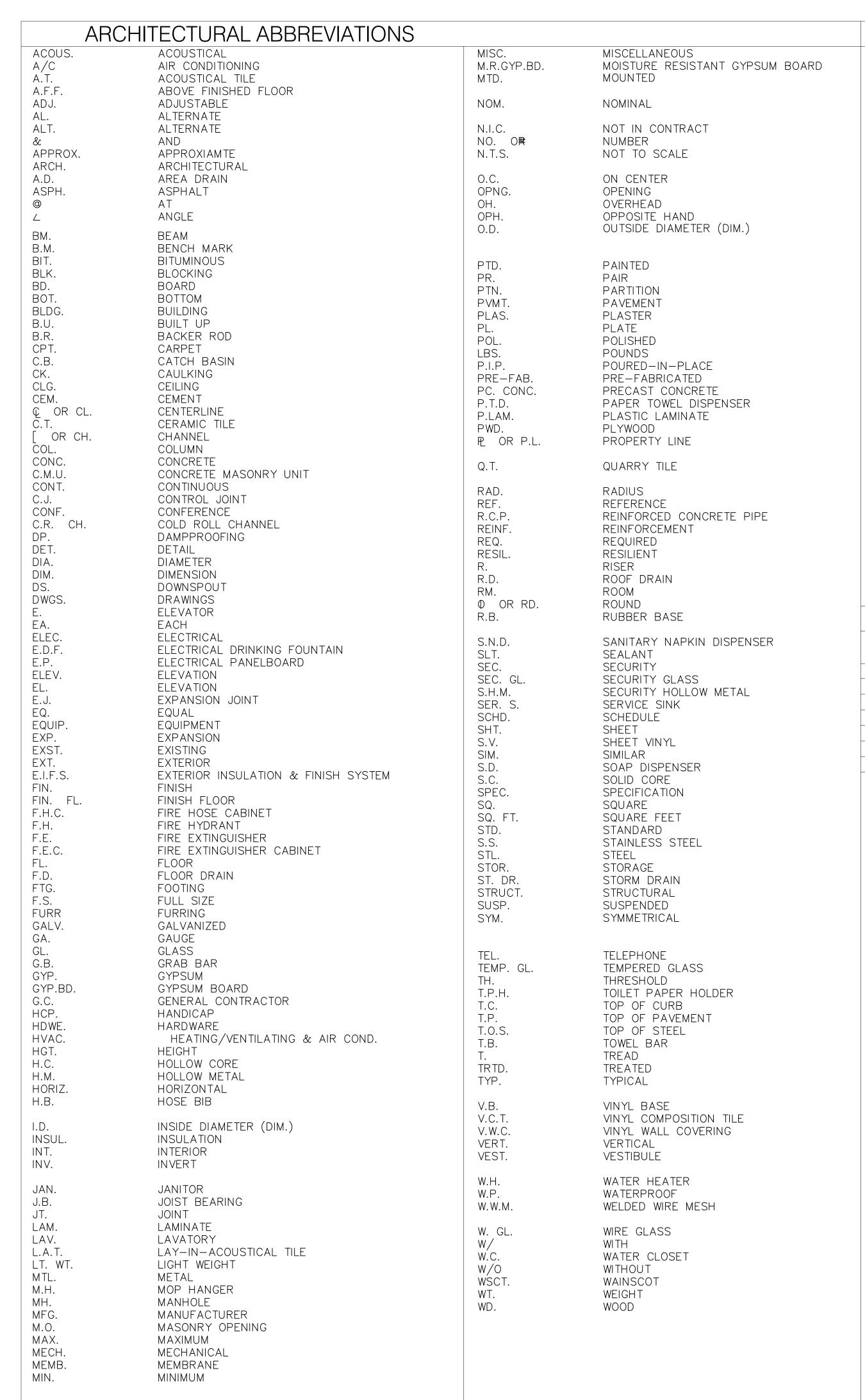
MAYOR: JERRY L. DEMINGS
BOARD OF COUNTY COMMISSIONERS:
DISTRICT 1 - BETSY VANDERLEY
DISTRICT 2 - CHRISTINE MOORE
DISTRICT 3 - MAYRA URIBE
DISTRICT 4 - MARIBEL GOMEZ CORDERO
DISTRICT 5 - EMILY BONILLA

DISTRICT 6 - VICTORIA P. SIPLIN

SHEET NUMBER	SHEET TITLE	ORIGINAL DATE	REVISION NUMBER	REVISION DATE	SHEET NUMBER	SHEET TITLE	ORIGINAL DATE	REVISION NUMBER	REVISION DATE
AD-1.1	COVER SHEET	5/08/2019	0	NA	A3.4	ROOFING REPLACEMENT DETAILS	5/08/2019	0	N/A
A1.1	SYMBOLS, ABBREVIATIONS & CODE INFORMATION	5/08/2019	0	N/A	A3.5	ROOFING REPLACEMENT DETAILS	5/08/2019	0	N/A
A1.2	GENERAL NOTES	5/08/2019	0	NA	A3.6	ROOFING REPLACEMENT DETAILS	5/08/2019	0	N/A
A2.1	EXISTING CONDITIONS ROOF PLAN	5/08/2019	0	NA	A3.7	ROOFING REPLACEMENT DETAILS	5/08/2019	0	NA
A2.2	PROPOSED ROOF PLAN	5/08/2019	0	NA	A3.8	ROOFING REPLACEMENT DETAILS	5/08/2019	0	N/A
A2.3	WIND UPLIFT PRESSURE PLAN	5/08/2019	0	NA	A3.9	ROOFING REPLACEMENT DETAILS	5/08/2019	0	N/A
A3.1	ROOFING REPLACEMENT DETAILS	5/08/2019	0	NA	A5.1	PHOTOGRAPHS	5/08/2019	0	N/A
A3.2	ROOFING REPLACEMENT DETAILS	5/08/2019	0	NA	A5.2	PHOTOGRAPHS	5/08/2019	0	N/A
A3.3	ROOFING REPLACEMENT DETAILS	5/08/2019	0	NA	S0.1	GENERAL NOTES	5/08/2019	0	N/A
					S2.1	PARTIAL ROOF FRAMING PLAN	5/08/2019	0	N/A
					S2.2	PARTIAL ROOF FRAMING PLAN	5/08/2019	0	N/A
					S5.1	SECTIONS & DETAILS	5/08/2019	0	N/A

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S	SOLID WA		INISTE DO. FLORI	RATION BUILD IDA	INC
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		PROJECT N	UMBER	: 18-093	
(407) 333	3246 LAKEVII		• LONG	ECT, INC. SWOOD, FLORIDA 32779 E MAIL: JAY@JAYAI	
N. II. 45	7.75	REV	'ISIONS		
NUMBER	R TYPE - ———			DATE:	
	BY: NHR ED BY: JPA			PROJECT NUMBER:_ PHASE: <u>CONSTRUCT</u>	

COVER SHEET



CURRENT BUILDING CODES

Building:

Mechanical

Plumbing:

Electrical:

Accessibility:

2017 FLORIDA BUILDING CODE

2017 FLORIDA MECHANICAL CODE

2017 FLORIDA PLUMBING CODE

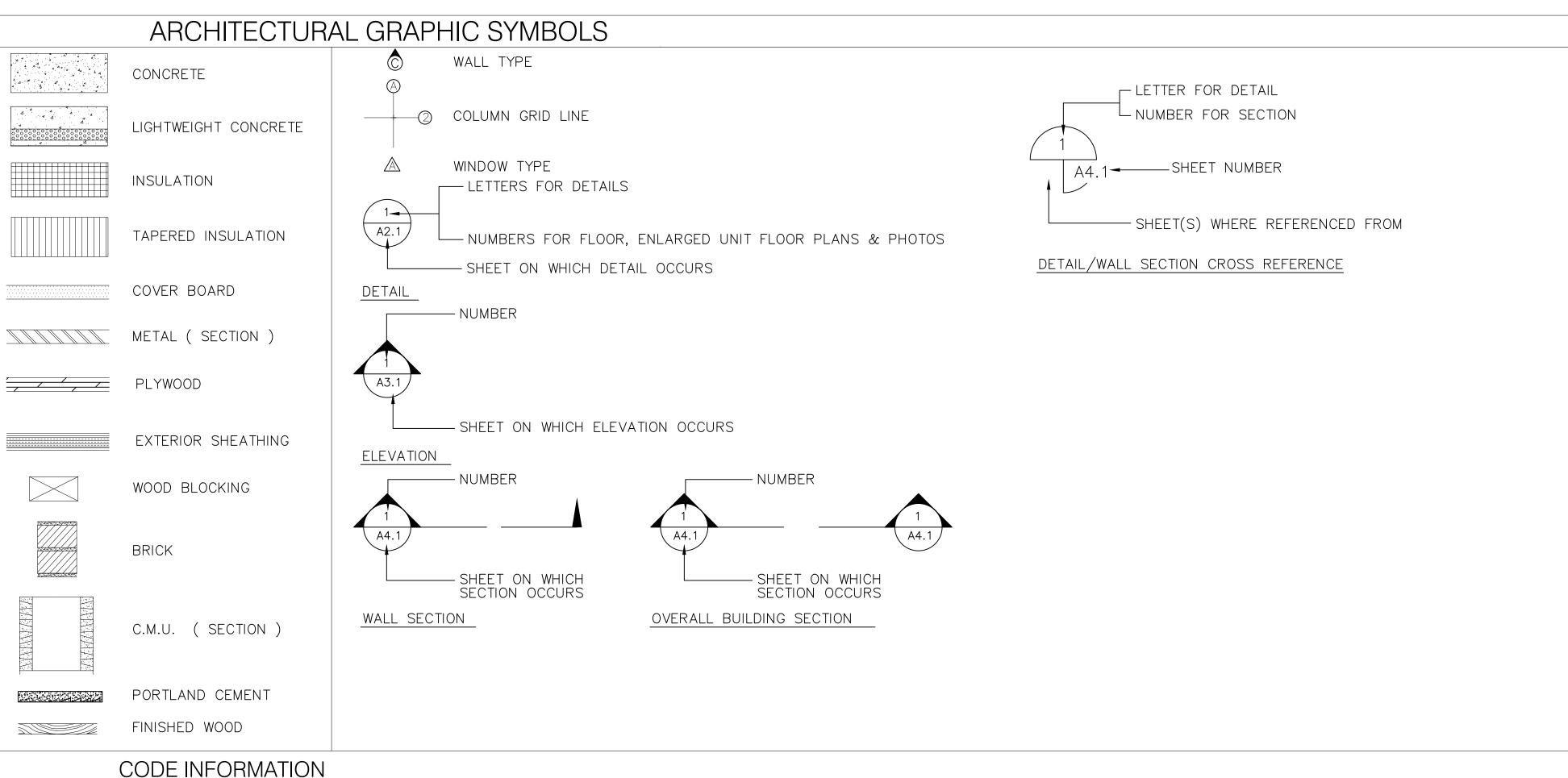
2017 FLORIDA FUEL GAS CODE

2017 FLORIDA ELECTRICAL CODE

2017 FLORIDA ACCESSIBILITY CODE

2017 FLORIDA ENERGY CONSERVATION CODE

Edition : SIXTH

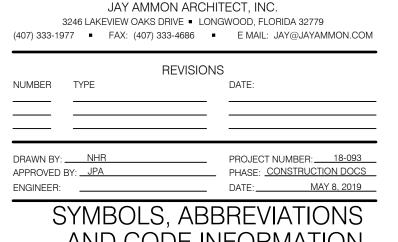


CONSTRUCTION DOCUMENTS ORANGE COUNTY GOVERNMENT SOLID WASTE ADMINISTRATION BUILDING

PROJECT NUMBER: 18-093

ORLANDO, FLORIDA

ROOFING REPLACEMENT PROJECT



AND CODE INFORMATION

PLOT: 1"=20'

SHEET

BUILDING PROTECTION NOTES:

- **A.** THE BUILDING WILL REMAIN FUNCTIONAL THROUGHOUT THE CONSTRUCTION PERIOD. CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO CONTENTS AND OCCUPANTS.
- B. THE BUILDING SHALL BE WATERTIGHT AT THE END OF EACH DAYS CONSTRUCTION AND WHEN INCLEMENT WEATHER THREATENS.
- C. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT THE BUILDING, EXTERIOR AND GROUNDS, AND ALL PROMENADE CONCRETE WITHIN THE PROJECT BOUNDARIES.
- **D.** ANY SURFACES STAINED, MARKED, MARRED, OR DAMAGED BY THE CONTRACTOR SHALL BE RETURNED TO ORIGINAL CONDITION AND TO MATCH ADJACENT SURFACES.
- E. THE CONTRACTOR SHALL RETURN THE SITE AND ANY DAMAGED ITEMS OF THE SITE OR FACILITY TO THE ORIGINAL CONDITION.
- F. THE SEQUENCE OF WORK SHALL MINIMIZE CONSTRUCTION TRAFFIC ON THE NEW WORK.

ROOFING REPLACEMENT NOTES:

- A. FOR PURPOSES OF THIS PROJECT, REMOVE SHALL MEAN REMOVE AND DISPOSE OF IN AN APPROVED AND LEGAL MANNER.
- **B.** CONTRACTOR SHALL VERIFY THE TOTAL NUMBER OF DETAIL CONDITIONS IN THE FIELD AND PERFORM NEW WORK IN ACCORDANCE WITH THE DETAIL REFERENCED OR THOSE WHICH ARE SIMILAR. CONTRACTOR SHALL VERIFY ALL CONDITIONS IN THE FIELD.
- **C.** GENERAL DEMOLITION SCOPE: REMOVE ALL LOW SLOPE ROOF MEMBRANE, METAL COPINGS, ALL LIGHTNING PROTECTION TERMINALS AND CABLES, METAL FLASHINGS, ETC. AND OTHER REQUIRED COMPONENTS AS REQUIRED FOR A COMPLETE ROOFING REPLACEMENT PROJECT.
- **D.** PROVIDE AND INSTALL TEMPORARY ROOFING, NIGHT SEALS, AND FLASHING AS REQUIRED TO PROTECT EXISTING BUILDING INTERIOR FROM DAMAGE.
- E. CONTRACTOR SHALL REMOVE ALL DEBRIS FROM CONSTRUCTION SITE AND DISPOSE OF IN A LEGAL MANNER.
- F. DAMAGED OR DETERIORATED ROOF SUBSTRATE UNCOVERED DURING DEMOLITION SHALL BE DOCUMENTED BY THE CONTRACTOR. REPORTED TO THE OWNER IN WRITING.
- G. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL EXISTING ROOF MATERIALS AND METHODS OF INSTALLATION BEFORE THE START OF WORK. ANY DISCREPANCIES BETWEEN THE INFORMATION PROVIDED BY THE CONTRACT DOCUMENTS AND CONDITIONS ENCOUNTERED BY THE CONTRACTOR BEFORE THE START OF WORK SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE OWNER. THE CONTRACTOR SHALL NOT BE ENTITLED TO COMPENSATION FOR ANY ADDITIONAL LABOR OR MATERIALS DUE TO DIFFERING EXISTING CONDITIONS WHICH ARE NOT BROUGHT TO THE ATTENTION OF THE OWNER PRIOR TO THE START OF WORK.
- H. THE CONTRACTOR SHALL REMOVE ALL EXISTING EXTERIOR CONDUIT, PIPING, LIGHTING FIXTURES, LIGHTNING PROTECTION SYSTEMS AND ANY OTHER ITEMS WHICH INTERFERE WITH THE INSTALLATION OF THE NEW ROOFING COMPONENTS AND RELATED WORK. ALL SUCH EQUIPMENT AND ITEMS SHALL BE TEMPORARILY RE-ROUTED AS NECESSARY IF IT IS REQUIRED TO STAY IN SERVICE. ANY ITEMS NOT REQUIRED TO STAY IN SERVICE SHALL BE PROPERLY STORED BY THE CONTRACTOR AND REINSTALLED AT THE COMPLETION OF THE WORK. ALL WORK SHALL BE PERFORMED BY QUALIFIED, LICENSED CRAFTSMAN IN ACCORDANCE WITH ALL APPLICABLE BUILDING CODES AT NO ADDITIONAL COST TO THE OWNER. ANY EXISTING WORK WHICH DOES NOT CONFORM TO APPLICABLE CURRENT CODES SHALL BE REPORTED TO THE OWNER IN WRITING PRIOR TO THE REMOVAL. INSTALL NEW OR EXISTING LIGHTNING PROTECTION COMPONENTS BY QUALIFIED, LICENSED LIGHTNING PROTECTION INSTALLER WITH MINIMUM 5 YEARS EXPERIENCE IN THE INSTALLATION OF LIGHTNING PROTECTION SYSTEMS IN ACCORDANCE WITH NFPA-780 AND ALL APPLICABLE BUILDING CODES. MAINTAIN OPERATION OF THE LIGHTNING PROTECTION SYSTEM THROUGHOUT CONSTRUCTION.
- LINES FOUND TO BE CLOGGED OR RESTRICTED SHALL BE REPORTED TO THE OWNER IN WRITING BEFORE PROCEEDING WITH THE WORK. ANY GUTTERS OR DOWNSPOUTS FOUND TO BE CLOGGED OR RESTRICTED AFTER THE START OF WORK, WHICH WERE NOT REPORTED AS SUCH PRIOR TO THE START OF WORK, SHALL BE CORRECTED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER. ALL GUTTERS AND DOWNSPOUTS MUST BE KEPT OPEN AND FULLY FUNCTIONING DURING THE ENTIRE CONSTRUCTION PERIOD. WITH ANY CLOGS TO BE CLEANED OUT PROMPTLY.
- J. ALL DEPICTED COMPONENTS ON DRAWINGS ARE NEW UNLESS IDENTIFIED AS EXISTING.
- **K.** AT ALL TRANSITION FLASHINGS INCLUDING INSIDE AND OUTSIDE CORNERS, TERMINATIONS, AND INTERFACES WITH ADJACENT DETAILS, PREPARE TRANSITION FLASHING MOCK-UP FOR THE ARCHITECT'S APPROVAL OF EACH DETAIL. FULLY SOLDER OR WELD ALL NON-MOVING JOINTS.

SPECIFIC NOTES:

- A. FIELD VERIFY ALL EXISTING ROOF SLOPES. INSTALL 1/4" PER FOOT NET SLOPE CRICKETS ADJACENT TO UPPER EDGE OF ALL ROOF MOUNTED EQUIPMENT.
- **B.** PROVIDE ROOF TRAFFIC PADS 3 FEET AROUND ALL POWERED ROOF MOUNTED EQUIPMENT AND ROOF ACCESS LADDERS.
- C. EQUIPMENT CURBS ARE TO BE A MINIMUM OF 8 INCHES ABOVE THE ROOF SURFACE. WHERE ROOF MATERIALS EXTEND BENEATH THE UNIT, ON RAISED EQUIPMENT SUPPORTS, PROVIDE A MINIMUM CLEARANCE HEIGHT IN ACCORDANCE WITH FBC TABLE 1509.7.
- D. REMOVE ALL RUST ON EQUIPMENT. APPLY RUST INHIBITOR, PRIMER AND TWO COATS OF ACRYLIC PAINT.
- **E.** CONNECT DOWNSPOUT TO UNDERGROUND DRAINAGE SYSTEM. IF THERE IS NO UNDERGROUND DRAINAGE SYSTEM, THE DOWNSPOUT SHALL DISCHARGE ONTO A CONCRETE SPLASH BLOCK.
- F. INSTALL ADDITIONAL MEMBRANE STRIPPING PLIES UNDER CONDUIT SUPPORTS, PIPE SUPPORT BRACKETS AND LIGHTNING PROTECTION BASES.

GENERAL NOTES:

- **A.** THE CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS IN THE FIELD. THIS SHALL INCLUDE VERIFYING THE EXACT LOCATIONS, DIMENSIONS AND QUANTITIES OF ALL ROOFTOP EQUIPMENT AND PENETRATIONS WHICH INCLUDES, BUT IS NOT LIMITED TO VENT PIPES, DRAINS, FLUE PIPES, CURBS, BASE FLASHING AND ALL OTHERS PENETRATIONS AND WORK ASSOCIATED WITH THIS ROOFING REPLACEMENT PROJECT. THE CONTRACTOR SHALL NOTIFY THE OWNER, IN WRITING, OF ALL EXISTING CONDITIONS WHICH ARE IN VARIANCE WITH THE CONDITIONS DOCUMENTED HEREIN.
- **B.** THE BUILDING MAY BE FULLY OR PARTIALLY OCCUPIED; CONTRACTOR IS SOLELY RESPONSIBLE FMETHODS OF CONSTRUCTION AND FOR THE SAFETY OF ALL PERSONS AT THE PROJECT SITE.
- C. CONTRACTOR SHALL PROTECT ALL EXISTING CONSTRUCTION TO REMAIN, INCLUDING ADJACENT ROOFS, GROUNDS, EXTERIOR SURFACES AND THE INTERIOR OF THE BUILDING. THIS SHALL INCLUDE, BUT IS NOT LIMITED TO ASPHALT, WATER, DUST, DEBRIS AND

- AT NO ADDITIONAL COST TO THE OWNER AND TO THE SATISFACTION OF THE OWNER.
- **D.** ALL WORK SHALL BE PERFORMED IN STRICT ACCORDANCE WITH ALL CODES AND AUTHORITIES HAVING JURISDICTION OVER THIS PROJECT. OR ALL MEANS AND METHODS
- **E.** ALL DETAILS INDICATE MINIMUM INSTALLATION REQUIREMENTS. IF THE MANUFACTURER'S STANDARDS DETAILS ARE MORE STRINGENT, IN THE OPINION OF THE OWNER, THEY SHALL GOVERN. IF THE DETAILS SHOWN ARE MORE STRINGENT THAN THE MANUFACTURER'S STANDARD DETAILS, IN THE OPINION OF THE OWNER, THE DETAILS SHOWN SHALL GOVERN, REGARDLESS OF THE MANUFACTURER'S WILLINGNESS TO WARRANT / GUARANTY THE LESSER DETAIL. BY SUBMITTING A BID FOR THIS PROJECT, IT IS UNDERSTOOD THAT THE CONTRACTOR AND MANUFACTURER AGREE TO WARRANT / GUARANTY THE DETAILS SHOWN. THE OWNER MAY, BUT IS NOT OBLIGATED TO, ACCEPT ANY PROPOSED CHANGES TO THE DETAILS SHOWN.
- F. THE CONTRACTOR IS TO PROVIDE ALL LABOR AND MATERIAL FOR A COMPLETE AND WATERTIGHT JOB WHICH IS FULLY WARRANTED / GUARANTEED BY THE MANUFACTURER AS PROVIDED FOR IN THE CONTRACT DOCUMENTS. ANY DETAILS OR WORK REQUIRED FOR A COMPLETE JOB, BUT NOT SHOWN OR SPECIFIED BY THE CONTRACT DOCUMENTS, SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURERS RECOMMENDATIONS AND REQUIREMENTS AT NO ADDITIONAL COST TO THE OWNER. ANY ADDITIONAL LABOR AND MATERIAL REQUIRED TO MEET MANUFACTURER'S WARRANTY / GUARANTY REQUIREMENTS, BUT NOT INDICATED BY THE CONTRACT DOCUMENTS, SHALL BE PROVIDED AT NO ADDITIONAL COST TO THE OWNER.
- G. ALL WOOD BLOCKING USED IN THE ROOFING WORK SHALL BE FIRE RETARDANT / PRESSURE TREATED.
- H. LAYDOWN/STORAGE AREA IS LIMITED AND SHALL BE AS APPROVED BY THE OWNER.
- I. PRIOR TO PERFORMING WORK, CONTRACTOR SHALL INSPECT WORK SITE AND EXISTING CONSTRUCTION FOR POTENTIAL SAFETY HAZARDS. PROVIDE FOR THE SAFETY AND PROTECTION OF WORKERS AND OCCUPANTS THROUGHOUT COURSE OF WORK. COMPLY WITH OSHA REQUIREMENTS.
- J. BUILDING ACCESS IS RESTRICTED AND ALLOWED ONLY AS REQUIRED TO ACCOMPLISH CONTRACT WORK.

 COORDINATE ANY REQUIRED ACCESS WITH THE OWNER.
- K. SITE SHALL BE CLEANED AND SECURED ON A DAILY BASIS AT THE END OF EACH WORK SHIFT.

SCOPE OF WORK:

1.0 ROOFING ASSEMBLY TYPE 1 - ROOFING REPLACEMENT - LOW SLOPE ROOF AREAS:

- 1.1 ROOFING REMOVAL: REMOVE THE EXISTING ROOF SYSTEM DOWN TO THE TOP SURFACE OF THE EXISTING SLOPED STRUCTURAL METAL DECK. REMOVE ANY DAMAGED OR DETERIORATED METAL DECK. REMOVE ALL ASBESTOS CONTAINING MATERIALS AND PROPERLY DISPOSE OF ACCORDING TO OWNER AND CURRENT GOVERNMENTAL REQUIREMENTS. OBTAIN ASBESTOS SURVEY REPORT FROM ORANGE COUNTRY GOVERNMENT PRIOR TO DEMOLITION. THE ROOFING COMPONENTS TO BE REMOVED INCLUDE, BUT ARE NOT LIMITED TO ALL EXISTING COATINGS, MODIFIED BITUMEN ROOF MEMBRANES, COVER BOARD, SINGLE-PLY ROOF MEMBRANE, RIGID POLYISOCYANURATE INSULATION, METAL FLASHINGS, RELATED FASTENERS, AND CANTS.
- 1.2 TEMPORARY REMOVAL: TEMPORARILY REMOVE THE FOLLOWING COMPONENTS AND REINSTALL DURING THE ROOFING REPLACEMENT PROJECT AS REQUIRED TO PROVIDE A WATERTIGHT INSTALLATION. REPAIR OR REPLACE THE COMPONENTS AS REQUIRED TO MEET OR EXCEED THE LEVEL OF PERFORMANCE THAT WAS PRESENT PRIOR TO REMOVAL OF THE COMPONENT. COMPONENTS INCLUDE ELECTRICAL JUNCTION BOXES, OUTLETS, CONDUITS, ANTENNAS, SECURITY CAMERAS, ROOF MOUNTED LIGHTS, POWER VENTS, ELEVATED HVAC EQUIPMENT AND OTHER MISCELLANEOUS ELECTRICAL COMPONENTS. REINSTALL EXISTING COMPONENTS AFTER THE INSTALLATION OF NEW ROOFING ASSEMBLY COMPONENTS.
- **1.3 EXISTING SKYLIGHT CURBS:** REMOVE EXISTING DESIGNATED SKYLIGHTS FROM ROOF SURFACES. SEE STRUCTURAL DRAWINGS FOR DECK AND FRAMING INSTALLATION. INSTALL RIGID INSULATION AND COVER BOARD FLUSH TO ADJACENT ROOF SURFACES AS SHOWN ON APPROVED DRAWINGS.
- 1.4 PIPE PENETRATIONS AND EQUIPMENT: WHERE DESIGNATED ON THE DRAWINGS TO REMAIN, REMOVE METAL AND MEMBRANE FLASHINGS AT THE EXISTING PLUMBING VENTS. EXTEND EXISTING PLUMBING VENTS AS REQUIRED TO MAINTAIN A MINIMUM HEIGHT OF 8 INCHES ABOVE THE NEW FINISHED ROOF SURFACE. INSTALL A LIQUID-APPLIED FLASHING SYSTEM BY THE MANUFACTURER OF THE ROOF MEMBRANE AT PIPE PENETRATIONS.
- 1.5 ENGINEERING: CONTRACTOR TO COMPLETE PULL TESTS OF THE PROPOSED ROOF SYSTEM PER TAS 124 CRITERIA. PROVIDE ENGINEERING CALCULATIONS PREPARED BY A STATE OF FLORIDA LICENSED STRUCTURAL ENGINEER INCLUDING THE TESTED NOA FOR EACH ROOF WIND ZONE. SUBMIT THE PULL TEST RESULTS AND THE ENGINEERED COVER BOARD FASTENER SPACING CALCULATIONS TO THE ARCHITECT AND MANUFACTURER FOR REVIEW PRIOR TO COMMENCEMENT OF THE ROOFING INSTALLATION. SEE STRUCTURAL DRAWINGS FOR WIND UPLIFT PRESSURES.
- 1.6 NEW MODIFIED BITUMEN ROOFING MEMBRANE ASSEMBLY: REMOVE EXISTING WOOD BLOCKING AND INSTALL NEW WOOD BLOCKING AND SIZED AS REQUIRED TO ACCOMMODATE THICKNESS OF THE NEW ROOF SYSTEM. SECURE NEW WOOD BLOCKING WITH NEW #14 SHEET METAL SCREWS AT 6" O.C. TO EXISTING THE STRUCTURAL METAL FRAMING. INSTALL TWO LAYERS OF FLAT POLYISOCYANURATE TO MEET A THERMAL RESISTANCE OF R-25.0. MECHANICALLY ATTACH A CEMENTITIOUS COVER BOARD THROUGH THE POLYISOCYANURATE INSULATION INTO THE METAL DECK TO MEET OR EXCEED PROJECT WIND UPLIFT CRITERIA. PRIME COVER BOARD AS REQUIRED BY ROOF MEMBRANE MANUFACTURER AND TORCH ONE-PLY OF SMOOTH SURFACED MODIFIED BITUMEN BASE SHEET OVER THE NEW COVER BOARD. TORCH APPLY A SMOOTH SURFACED MODIFIED BITUMEN INNER-PLY OVER BASE SHEET. TORCH APPLY A GRANULE SURFACED MODIFIED BITUMEN CAP SHEET OVER INNER PLY PER ROOF MEMBRANE MANUFACTURES RECOMMENDATIONS. TORCH APPLY ONE SMOOTH SURFACED MODIFIED BITUMEN BASE FLASHING PLY AND LIQUID APPLIED REINFORCED FLASHING WITH EMBEDDED GRANULARS TO MATCH CAP SHEET. SEE DETAIL A/3.1. SEE SPECIFICATION SECTION 075216.

- 1.7 ROOF DRAINAGE COMPONENTS: INSTALL NEW .050" MILL FINISHED ALUMINUM GUTTERS AND DOWNSPOUTS SIZED TO MEET CURRENT BUILDING CODE REQUIREMENTS. NEW GUTTER SYSTEM TO TO MEET ANSI/SPRI ES-1 REQUIREMENTS. PRIME AND PAINT GUTTER DOWNSPOUTS TO MATCH ADJACENT BUILDING SURFACES. PROVIDE NEW SPLASH BLOCKS WHERE DOWNSPOUT DOES NOT CONNECT TO SUBGRADE DRAIN LINE.
- **1.8 METAL EDGE FLASHING INSTALLATION:** INSTALL NEW PRE-MANUFACTURED ALUMINUM METAL EDGE FLASHING TO MEET ANSI/SPRI ES-1 REQUIREMENTS. INSTALL FULLY WELDED/SOLDERED ONE PIECE TRANSITION FLASHINGS AT CORNERS, TRANSITIONS AND TERMINATIONS. RESECURE ALL WOOD BLOCKING PER PROJECT WIND UPLIFT PRESSURES AND ES-1 REQUIREMENTS. PRIME AND PAINT METAL EDGE TO MATCH ADJACENT BUILDING SURFACES.
- **1.9 COUNTERFLASHING INSTALLATION:** REMOVE ALL EXISTING COUNTERFLASHINGS AND WIND CLIPS. FABRICATE AND INSTALL NEW STAINLESS STEEL FLASHINGS WHERE INDICATED AND WHERE REQUIRED FOR A TOTAL ROOFING ASSEMBLY. SOLDER ALL TRANSITION FLASHING JOINTS NOT REQUIRED TO THERMALLY EXPAND AND CONTRACT. SEE SPECIFICATION SECTION 076200.
- **1.10 ROOF WALK PADS:** INSTALL NEW MODIFIED BITUMEN ROOF WALKWAY PADS AT DESIGNATED LOCATIONS. COLOR OF NEW WALKPADS TO BE SELECTED BY OWNER IN FIELD.

2.0 EXISTING SKYLIGHT ASSEMBLIES:

- **2.1 SKYLIGHT REMOVAL:** REMOVE ALL SKYLIGHT COMPONENTS FROM THE EXISTING BUILDING STRUCTURE. SKYLIGHT COMPONENTS INCLUDE BUT ARE NOT LIMITED TO SKYLIGHT FRAMES, GLAZING, FLASHINGS, GUTTER SYSTEMS, SEALANTS AND FASTENERS. NOTIFY ARCHITECT OF ANY DETERIORATED SKYLIGHT FRAMING.
- **2.2 SKYLIGHT IN-FILL:** INSTALL NEW METAL FRAMING AND NEW METAL DECK OVER EXISTING SKYLIGHT OPENINGS AS SHOWN ON STRUCTURAL DRAWINGS.
- **2.3 INTERIOR FINISHES:** PREPARE, PRIME AND PAINT THE EXPOSED UNDERSIDE SURFACES OF ALL NEW STRUCTURAL COMPONENTS TO MATCH ADJACENT INTERIOR FINISHES. PAINT ALL EXPOSED ROOF SYSTEM FASTENERS TO MATCH METAL DECK SURFACES.

3.0 EXPANSION JOINTS:

3.1 NEW EXPANSION JOINT COVER INSTALLATION: INSTALL NEW 22 GAUGE STAINLESS STEEL ROOF AND WALL EXPANSION JOINT COVERS. INSTALL ONE PIECE TRANSITION FLASHINGS WITH ALL SOLDERED / WELDED JOINTS AT ALL TERMINATIONS AND TRANSITIONS WITH ADJACENT BUILDING ENVELOPE COMPONENTS.

4.0 GUARD RAIL INSTALLATION:

4.1 ROOF TOP GUARD RAIL INSTALLATION: AT ALL CURBED ROOF MOUNTED EQUIPMENT WITHIN 10'-0" OF THE PARAPET WALL ASSEMBLY, INSTALL NEW KEEGUARD ROOF TOP GUARD RAIL SYSTEM BY KEE SAFETY INC.. CONTRACTOR TO PROVIDE SEALED ENGINEERED SHOP DRAWINGS OF GUARDRAIL SYSTEMS. SEE ROOF PLANS FOR GUARDRAIL INSTALLATION.

5.0 LIGHTNING PROTECTION COMPONENTS:

5.1 LIGHTNING PROTECTION REINSTALLATION: TEMPORARILY REMOVE ALL EXISTING LIGHTNING AIR TERMINALS AND CABLES FROM THE SIDE SURFACES OF THE EXISTING METAL COPINGS, PARAPET WALLS AND ANY OTHER ROOF SURFACES WHICH ARE ATTACHED TO COMPONENTS DESCRIBED IN THIS SCOPE OF WORK. REINSTALL LIGHTNING PROTECTION SYSTEM IN ACCORDANCE WITH NFPA-780 BY A LICENSED CONTRACTOR WITH A MINIMUM 5 YEARS OF EXPERIENCE IN THE INSTALLATION OF LIGHTNING PROTECTION SYSTEMS. MAINTAIN OPERATION OF LIGHTNING PROTECTION SYSTEM DURING CONSTRUCTION. RE-CERTIFY THE REINSTALLED LIGHTNING PROTECTION SYSTEM.

6.0 ROOF HATCH:

6.1 ROOF HATCH REPLACEMENT: REMOVE EXISTING ROOF HATCH AND INSTALL NEW BILCO TYPE S STAINLESS STEEL ROOF HATCH. INSTALL NEW STAINLESS STEEL LATCHING HARDWARE BY BILCO AT ROOF HATCH. INSTALL SKIRT FLASHING AT NEW ROOF HATCH AND BASE FLASHING INTERFACE.

0.04	STE ADMINISTRATION BUILDING
ROOFIN	ORLANDO, FLORIDA IG REPLACEMENT PROJECT
Р	PROJECT NUMBER: 18-093
3246 LAKEVIEV	Y AMMON ARCHITECT, INC. W OAKS DRIVE • LONGWOOD, FLORIDA 32779 X: (407) 333-4686 • E MAIL: JAY@JAYAMMON.C
3246 LAKEVIEV (407) 333-1977 ■ FAX	W OAKS DRIVE • LONGWOOD, FLORIDA 32779 X: (407) 333-4686 • E MAIL: JAY@JAYAMMON.C
3246 LAKEVIEV	W OAKS DRIVE • LONGWOOD, FLORIDA 32779 X: (407) 333-4686 • E MAIL: JAY@JAYAMMON.C
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3246 LAKEVIEV (407) 333-1977 • FAX NUMBER TYPE	W OAKS DRIVE • LONGWOOD, FLORIDA 32779 X: (407) 333-4686 • E MAIL: JAY@JAYAMMON.C REVISIONS DATE:

CONSTRUCTION DOCUMENTS

PLOT: 1"=20' SHEET A1.2

LEGEND		
SYMBOL DESCRIPTION DETAIL SCOPE OF WORK ITEM		
PARAPET WALL (B) (A-3.1) 1.0, 2.0		
GUTTER WITH DOWNSPOUT A-3.1 A-3.5 A-3.5 A-3.5 1.0, 2.0		
EXISTING STRUCTURAL ROOF SLOPE 1.0, 2.0		
TAPERED INSULATION		
DOWNSPOUT DESIGNATION 1.0, 2.0 ROOFING ASSEMBLY TYPE 1:		
NEW LOW-SLOPE MODIFIED BITUMEN ROOFING ASSEMBLY A3 1 A-3 1 A-3 1		
DETAIL DESIGNATION		
NOT IN CONTRACT		
A ROOF AREA DESIGNATION		
ROOF ACCESS DOOR A-3.9 4.1		
O PLUMBING VENT (A-3.6) 1.0, 2.0		
• CONDUIT PENETRATION A A-3.6 1.0, 2.0		
EXHAUST VENT $\left(\begin{array}{c} C \\ A-3.7 \end{array}\right)$ 1.0, 2.0 DIAGONAL BRACING $\left(\begin{array}{c} D \\ A-3.6 \end{array}\right)$ 1.0		
ф		
LIGHTING PROTECTION DATE A.3.6 3.1		
EXISTING SKYLIGHTS		
DEMOED SKYLIGHT A B B A-3.3 A-3.3 A-3.4		
DETAIL DESIGNATION		
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EXISTING SCREEN WALL		
	SLOPE SLO	
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SCOPE OF WORK:

1.0 ROOFING ASSEMBLY TYPE 1 - ROOFING REPLACEMENT - LOW SLOPE ROOF AREAS: 1.1 ROOFING REMOVAL: REMOVE THE EXISTING ROOF SYSTEM DOWN TO THE TOP SURFACE OF THE EXISTING SLOPED STRUCTURAL METAL DECK. REMOVE ANY DAMAGED OR DETERIORATED METAL DECK. REMOVE ALL ASBESTOS CONTAINING MATERIALS AND PROPERLY DISPOSE OF ACCORDING TO OWNER AND CURRENT GOVERNMENTAL REQUIREMENTS. OBTAIN ASBESTOS SURVEY REPORT FROM ORANGE COUNTRY GOVERNMENT PRIOR TO DEMOLITION. THE ROOFING COMPONENTS TO BE REMOVED INCLUDE, BUT ARE NOT LIMITED TO ALL EXISTING COATINGS, MODIFIED BITUMEN ROOF MEMBRANES, COVER BOARD, SINGLE-PLY ROOF MEMBRANE, RIGID POLYISOCYANURATE INSULATION, METAL FLASHINGS, RELATED FASTENERS, AND CANTS. 1.2 TEMPORARY REMOVAL: TEMPORARILY REMOVE THE FOLLOWING COMPONENTS AND REINSTALL DURING THE ROOFING REPLACEMENT PROJECT AS REQUIRED TO PROVIDE A WATERTIGHT INSTALLATION. REPAIR OR REPLACE THE COMPONENTS AS REQUIRED TO MEET OR EXCEED THE LEVEL OF PERFORMANCE THAT WAS PRESENT PRIOR TO REMOVAL OF THE COMPONENT. COMPONENTS INCLUDE ELECTRICAL JUNCTION BOXES, OUTLETS, CONDUITS, ANTENNAS, SECURITY CAMERAS, ROOF MOUNTED LIGHTS, POWER VENTS, ELEVATED HVAC EQUIPMENT AND OTHER MISCELLANEOUS ELECTRICAL COMPONENTS. REINSTALL EXISTING COMPONENTS AFTER THE INSTALLATION OF NEW ROOFING ASSEMBLY COMPONENTS.

1.3 EXISTING SKYLIGHT CURBS: REMOVE EXISTING DESIGNATED SKYLIGHTS FROM ROOF SURFACES. SEE STRUCTURAL DRAWINGS FOR DECK AND FRAMING INSTALLATION. INSTALL RIGID INSULATION AND COVER BOARD FLUSH TO ADJACENT ROOF SURFACES AS SHOWN ON APPROVED

1.4 PIPE PENETRATIONS AND EQUIPMENT: WHERE DESIGNATED ON THE DRAWINGS TO REMAIN, REMOVE METAL AND MEMBRANE FLASHINGS AT THE EXISTING PLUMBING VENTS. EXTEND EXISTING PLUMBING VENTS AS REQUIRED TO MAINTAIN A MINIMUM HEIGHT OF 8 INCHES ABOVE THE NEW FINISHED ROOF SURFACE. INSTALL A LIQUID-APPLIED FLASHING SYSTEM BY THE MANUFACTURER OF THE ROOF MEMBRANE AT PIPE PENETRATIONS.

1.5 **ENGINEERING:** CONTRACTOR TO COMPLETE PULL TESTS OF THE PROPOSED ROOF SYSTEM PER TAS 124 CRITERIA. PROVIDE ENGINEERING CALCULATIONS PREPARED BY A STATE OF FLORIDA LICENSED STRUCTURAL ENGINEER INCLUDING THE TESTED NOA FOR EACH ROOF WIND ZONE. SUBMIT THE PULL TEST RESULTS AND THE ENGINEERED COVER BOARD FASTENER SPACING CALCULATIONS TO THE ARCHITECT AND MANUFACTURER FOR REVIEW PRIOR TO COMMENCEMENT OF THE ROOFING INSTALLATION. SEE STRUCTURAL DRAWINGS FOR WIND UPLIFT PRESSURES.

1.6 NEW MODIFIED BITUMEN ROOFING MEMBRANE ASSEMBLY: REMOVE EXISTING WOOD BLOCKING AND INSTALL NEW WOOD BLOCKING AND SIZED AS REQUIRED TO ACCOMMODATE THICKNESS OF THE NEW ROOF SYSTEM. SECURE NEW WOOD BLOCKING WITH NEW #14 SHEET METAL SCREWS AT 6" O.C. TO EXISTING THE STRUCTURAL METAL FRAMING. INSTALL TWO LAYERS OF FLAT POLYISOCYANURATE TO MEET A THERMAL RESISTANCE OF R-25.0. MECHANICALLY ATTACH A CEMENTITIOUS COVER BOARD THROUGH THE POLYISOCYANURATE INSULATION INTO THE METAL DECK TO MEET OR EXCEED PROJECT WIND UPLIFT CRITERIA. PRIME COVER BOARD AS REQUIRED BY ROOF MEMBRANE MANUFACTURER AND TORCH ONE-PLY OF SMOOTH SURFACED MODIFIED BITUMEN BASE SHEET OVER THE NEW COVER BOARD. TORCH APPLY A SMOOTH SURFACED MODIFIED BITUMEN INNER-PLY OVER BASE SHEET. TORCH APPLY A GRANULE SURFACED MODIFIED BITUMEN CAP SHEET OVER INNER PLY PER ROOF MEMBRANE MANUFACTURES RECOMMENDATIONS. TORCH APPLY ONE SMOOTH SURFACED MODIFIED BITUMEN BASE FLASHING PLY AND LIQUID APPLIED REINFORCED FLASHING WITH EMBEDDED GRANULARS TO MATCH CAP SHEET. SEE DETAIL A/3.1. SEE

SPECIFICATION SECTION 075216. 1.7 ROOF DRAINAGE COMPONENTS: INSTALL NEW .050" MILL FINISHED ALUMINUM GUTTERS AND DOWNSPOUTS SIZED TO MEET CURRENT BUILDING CODE REQUIREMENTS. NEW GUTTER SYSTEM TO TO MEET ANSI/SPRI ES-1 REQUIREMENTS. PRIME AND PAINT GUTTER DOWNSPOUTS TO MATCH

ADJACENT BUILDING SURFACES. PROVIDE NEW SPLASH BLOCKS WHERE DOWNSPOUT DOES NOT CONNECT TO SUBGRADE DRAIN LINE. 1.8 METAL EDGE FLASHING INSTALLATION: INSTALL NEW PRE-MANUFACTURED ALUMINUM METAL EDGE FLASHING TO MEET ANSI/SPRI ES-1 REQUIREMENTS. INSTALL FULLY WELDED/SOLDERED ONE PIECE TRANSITION FLASHINGS AT CORNERS, TRANSITIONS AND TERMINATIONS. RESECURE ALL WOOD BLOCKING PER PROJECT WIND UPLIFT PRESSURES AND ES-1 REQUIREMENTS. PRIME AND PAINT METAL EDGE TO MATCH ADJACENT BUILDING SURFACES. 1.9 COUNTERFLASHING INSTALLATION: REMOVE ALL EXISTING COUNTERFLASHINGS AND WIND

CLIPS. FABRICATE AND INSTALL NEW STAINLESS STEEL FLASHINGS WHERE INDICATED AND WHERE REQUIRED FOR A TOTAL ROOFING ASSEMBLY. SOLDER ALL TRANSITION FLASHING JOINTS NOT REQUIRED TO THERMALLY EXPAND AND CONTRACT. SEE SPECIFICATION SECTION 076200. 1.10 ROOF WALK PADS: INSTALL NEW MODIFIED BITUMEN ROOF WALKWAY PADS AT DESIGNATED LOCATIONS. COLOR OF NEW WALKPADS TO BE SELECTED BY OWNER IN FIELD.

2.0 EXISTING SKYLIGHT ASSEMBLIES:

2.1 SKYLIGHT REMOVAL: REMOVE ALL SKYLIGHT COMPONENTS FROM THE EXISTING BUILDING STRUCTURE. SKYLIGHT COMPONENTS INCLUDE BUT ARE NOT LIMITED TO SKYLIGHT FRAMES, GLAZING, FLASHINGS, GUTTER SYSTEMS, SEALANTS AND FASTENERS. NOTIFY ARCHITECT OF ANY 2.2 SKYLIGHT IN-FILL: INSTALL NEW METAL FRAMING AND NEW METAL DECK OVER EXISTING

SKYLIGHT OPENINGS AS SHOWN ON STRUCTURAL DRAWINGS.

2.3 INTERIOR FINISHES: PREPARE, PRIME AND PAINT THE EXPOSED UNDERSIDE SURFACES OF ALL NEW STRUCTURAL COMPONENTS TO MATCH ADJACENT INTERIOR FINISHES. PAINT ALL EXPOSED ROOF SYSTEM FASTENERS TO MATCH METAL DECK SURFACES.

3.0 EXPANSION JOINTS:

4.0 GUARD RAIL INSTALLATION:

3.1 NEW EXPANSION JOINT COVER INSTALLATION: INSTALL NEW 22 GAUGE STAINLESS STEEL ROOF AND WALL EXPANSION JOINT COVERS. INSTALL ONE PIECE TRANSITION FLASHINGS WITH ALL SOLDERED / WELDED JOINTS AT ALL TERMINATIONS AND TRANSITIONS WITH ADJACENT BUILDING ENVELOPE COMPONENTS.

4.1 ROOF TOP GUARD RAIL INSTALLATION: AT ALL CURBED ROOF MOUNTED EQUIPMENT WITHIN 10-0° OF THE PARAPET WALL ASSEMBLY, INSTALL NEW KEEGUARD ROOF TOP GUARD RAIL SYSTEM BY KEE SAFETY INC.. CONTRACTOR TO PROVIDE SEALED ENGINEERED SHOP DRAWINGS OF GUARDRAIL SYSTEMS. SEE ROOF PLANS FOR GUARDRAIL INSTALLATION. 5.0 LIGHTNING PROTECTION COMPONENTS:

5.1 LIGHTNING PROTECTION REINSTALLATION: TEMPORARILY REMOVE ALL EXISTING LIGHTNING AIR TERMINALS AND CABLES FROM THE SIDE SURFACES OF THE EXISTING METAL

COPINGS, PARAPET WALLS AND ANY OTHER ROOF SURFACES WHICH ARE ATTACHED TO COMPONENTS DESCRIBED IN THIS SCOPE OF WORK. REINSTALL LIGHTNING PROTECTION SYSTEM IN ACCORDANCE WITH NFPA-780 BY A LICENSED CONTRACTOR WITH A MINIMUM 5 YEARS OF EXPERIENCE IN THE INSTALLATION OF LIGHTNING PROTECTION SYSTEMS. MAINTAIN OPERATION OF LIGHTNING PROTECTION SYSTEM DURING CONSTRUCTION. RE-CERTIFY THE REINSTALLED LIGHTNING PROTECTION SYSTEM.

6.1 ROOF HATCH REPLACEMENT: REMOVE EXISTING ROOF HATCH AND INSTALL NEW BILCO TYPE'S STAINLESS STEEL ROOF HATCH. INSTALL NEW STAINLESS STEEL LATCHING HARDWARE BY BILCO AT ROOF HATCH. INSTALL SKIRT FLASHING AT NEW ROOF HATCH AND BASE FLASHING

> CONSTRUCTION DOCUMENTS ORANGE COUNTY GOVERNMENT

SOLID WASTE ADMINISTRATION BUILDING ORLANDO, FLORIDA ROOFING REPLACEMENT PROJECT

PROJECT NUMBER: 18-093

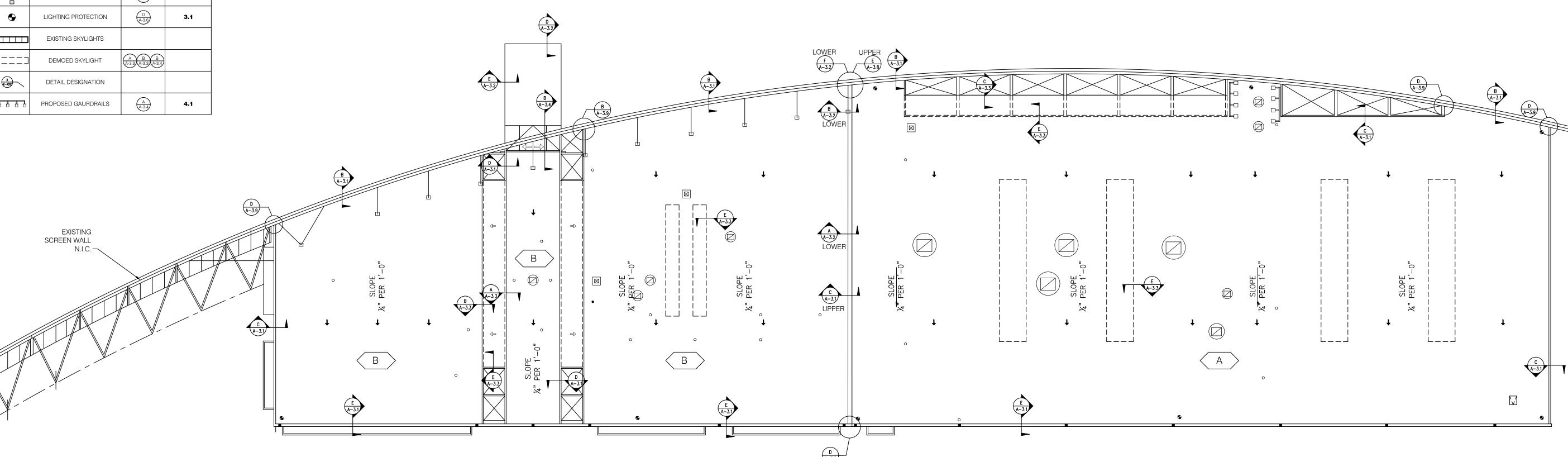


DRAWN BY: NHR PROJECT NUMBER: 18-093 APPROVED BY: <u>JPA</u> PHASE: <u>CONSTRUCTION DOCS</u>

EXISTING CONDITIONS

	LEGENI	D	
SYMBOL	DESCRIPTION	DETAIL	SCOPE OF WORK ITEM
	PARAPET WALL	B A-3.1	1.0, 2.0
	GUTTER WITH DOWNSPOUT	E A E A-3.1 A-3.5 A-3.5	1.0, 2.0
→	EXISTING STRUCTURAL ROOF SLOPE		1.0, 2.0
\Rightarrow	TAPERED INSULATION		
_DS #01	DOWNSPOUT DESIGNATION		1.0, 2.0
	ROOFING ASSEMBLY TYPE 1: NEW LOW-SLOPE MODIFIED BITUMEN ROOFING ASSEMBLY	A A.1 A-3.1 A-3.1	1.0
X-XXX	DETAIL DESIGNATION		
NIC	NOT IN CONTRACT		
A	ROOF AREA DESIGNATION		
	ROOF ACCESS DOOR	A A-3.9	4.1
•	EXHAUST VENT	B C A-3.6 A-3.6	1.0, 2.0
0	CONDUIT PENETRATION	A-3.6	1.0, 2.0
	PLUMBING VENT	C A-3.7	1.0, 2.0
	DIAGONAL BRACING	D A-3.6	1.0
•	LIGHTING PROTECTION	D A-3.6	3.1
	EXISTING SKYLIGHTS		
	DEMOED SKYLIGHT	A B B A-3.3 A-3.3 A-3.4	
X-xxx	DETAIL DESIGNATION		
8888	PROPOSED GAURDRAILS	A-3.4	4.1

ROOFING ASSEMBLY TYPE 1: PROPOSED NEW LOW-SLOPE ROOFING ASSEMBLY





SCOPE OF WORK:

1.0 ROOFING ASSEMBLY TYPE 1 - ROOFING REPLACEMENT - LOW SLOPE ROOF AREAS: 1.0 ROOFING ASSEMBLY TYPE 1 - ROOFING REPLACEMENT - LOW SLOPE HOUF AREAS:

1.1 ROOFING REMOVAL: REMOVE THE EXISTING ROOF SYSTEM DOWN TO THE TOP SURFACE OF THE EXISTING SLOPED STRUCTURAL METAL DECK. REMOVE ANY DAMAGED OR DETERIORATED METAL DECK. REMOVE ALL ASBESTOS CONTAINING MATERIALS AND PROPERLY DISPOSE OF ACCORDING TO OWNER AND CURRENT GOVERNMENTAL REQUIREMENTS. OBTAIN ASBESTOS SURVEY REPORT FROM ORANGE COUNTRY GOVERNMENT PRIOR TO DEMOLITION. THE ROOFING COMPONENTS TO BE REMOVED INCLUDE, BUT ARE NOT LIMITED TO ALL EXISTING COATINGS, MODIFIED BITUMEN ROOF MEMBRANES, COVER BOARD, SINGLE-PLY ROOF MEMBRANE, RIGID POLYISOCYANURATE INSULATION, METAL FLASHINGS, RELATED FASTENERS, AND CANTS.

1.2 TEMPORARY REMOVAL: TEMPORARILY REMOVE THE FOLLOWING COMPONENTS AND REINSTALL DURING THE ROOFING REPLACEMENT PROJECT AS REQUIRED TO PROVIDE A WATERTIGHT INSTALLATION. REPAIR OR REPLACE THE COMPONENTS AS REQUIRED TO MEET OR EXCEED THE LEVEL OF PERFORMANCE THAT WAS PRESENT PRIOR TO REMOVAL OF THE COMPONENT. COMPONENTS INCLUDE ELECTRICAL JUNCTION BOXES, OUTLETS, CONDUITS, ANTENNAS, SECURITY CAMERAS, ROOF MOUNTED LIGHTS, POWER VENTS, ELEVATED HVAC EQUIPMENT AND OTHER MISCELLANEOUS ELECTRICAL COMPONENTS. REINSTALL EXISTING COMPONENTS AFTER THE INSTALLATION OF NEW ROOFING ASSEMBLY COMPONENTS.

1.3 EXISTING SKYLIGHT CURBS: REMOVE EXISTING DESIGNATED SKYLIGHTS FROM ROOF SURFACES. SEE STRUCTURAL DRAWINGS FOR DECK AND FRAMING INSTALLATION. INSTALL RIGID INSULATION AND COVER BOARD FLUSH TO ADJACENT ROOF SURFACES AS SHOWN ON APPROVED

1.4 PIPE PENETRATIONS AND EQUIPMENT: WHERE DESIGNATED ON THE DRAWINGS TO REMAIN, REMOVE METAL AND MEMBRANE FLASHINGS AT THE EXISTING PLUMBING VENTS. EXTEND EXISTING PLUMBING VENTS AS REQUIRED TO MAINTAIN A MINIMUM HEIGHT OF 8 INCHES ABOVE THE NEW FINISHED ROOF SURFACE. INSTALL A LIQUID-APPLIED FLASHING SYSTEM BY THE MANUFACTURER OF THE ROOF MEMBRANE AT PIPE PENETRATIONS. 1.5 ENGINEERING: CONTRACTOR TO COMPLETE PULL TESTS OF THE PROPOSED ROOF SYSTEM PER TAS 124 CRITERIA. PROVIDE ENGINEERING CALCULATIONS PREPARED BY A STATE OF FLORIDA

LICENSED STRUCTURAL ENGINEER INCLUDING THE TESTED NOA FOR EACH ROOF WIND ZONE. SUBMIT THE PULL TEST RESULTS AND THE ENGINEERED COVER BOARD FASTENER SPACING CALCULATIONS TO THE ARCHITECT AND MANUFACTURER FOR REVIEW PRIOR TO COMMENCEMENT OF THE ROOFING INSTALLATION. SEE STRUCTURAL DRAWINGS FOR WIND UPLIFT PRESSURES. 1.6 NEW MODIFIED BITUMEN ROOFING MEMBRANE ASSEMBLY: REMOVE EXISTING WOOD BLOCKING AND INSTALL NEW WOOD BLOCKING AND SIZED AS REQUIRED TO ACCOMMODATE THICKNESS OF THE NEW ROOF SYSTEM. SECURE NEW WOOD BLOCKING WITH NEW #14 SHEET METAL SCREWS AT 6" O.C. TO EXISTING THE STRUCTURAL METAL FRAMING. INSTALL TWO LAYERS OF FLAT POLYISOCYANURATE TO MEET A THERMAL RESISTANCE OF R-25.0. MECHANICALLY ATTACH A CEMENTITIOUS COVER BOARD THROUGH THE POLYISOCYANURATE INSULATION INTO THE METAL DECK TO MEET OR EXCEED PROJECT WIND UPLIFT CRITERIA. PRIME COVER BOARD AS REQUIRED BY ROOF MEMBRANE MANUFACTURER AND TORCH ONE-PLY OF SMOOTH SURFACED MODIFIED BITUMEN BASE SHEET OVER THE NEW COVER BOARD. TORCH APPLY A SMOOTH SURFACED MODIFIED BITUMEN INNER-PLY OVER BASE SHEET. TORCH APPLY A GRANULE SURFACED MODIFIED BITUMEN CAP SHEET OVER INNER PLY PER ROOF MEMBRANE MANUFACTURES RECOMMENDATIONS. TORCH APPLY ONE SMOOTH SURFACED MODIFIED BITUMEN BASE FLASHING PLY AND LIQUID APPLIED REINFORCED FLASHING WITH EMBEDDED GRANULARS TO MATCH CAP SHEET. SEE DETAIL A/3.1. SEE

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2.0 EXISTING SKYLIGHT ASSEMBLIES: 2.1 SKYLIGHT REMOVAL: REMOVE ALL SKYLIGHT COMPONENTS FROM THE EXISTING BUILDING STRUCTURE. SKYLIGHT COMPONENTS INCLUDE BUT ARE NOT LIMITED TO SKYLIGHT FRAMES,

GLAZING, FLASHINGS, GUTTER SYSTEMS, SEALANTS AND FASTENERS. NOTIFY ARCHITECT OF ANY DETERIORATED SKYLIGHT FRAMING. 2.2 SKYLIGHT IN-FILL: INSTALL NEW METAL FRAMING AND NEW METAL DECK OVER EXISTING 2.3 INTERIOR FINISHES: PREPARE, PRIME AND PAINT THE EXPOSED UNDERSIDE SURFACES OF ALL NEW STRUCTURAL COMPONENTS TO MATCH ADJACENT INTERIOR FINISHES. PAINT ALL EXPOSED ROOF SYSTEM FASTENERS TO MATCH METAL DECK SURFACES.

3.0 EXPANSION JOINTS:

3.1 NEW EXPANSION JOINT COVER INSTALLATION: INSTALL NEW 22 GAUGE STAINLESS STEEL ROOF AND WALL EXPANSION JOINT COVERS. INSTALL ONE PIECE TRANSITION FLASHINGS WITH ALL SOLDERED / WELDED JOINTS AT ALL TERMINATIONS AND TRANSITIONS WITH ADJACENT BUILDING

4.0 GUARD RAIL INSTALLATION:

4.1 ROOF TOP GUARD RAIL INSTALLATION: AT ALL CURBED ROOF MOUNTED EQUIPMENT WITHIN 10-0" OF THE PARAPET WALL ASSEMBLY, INSTALL NEW KEEGUARD ROOF TOP GUARD RAIL SYSTEM BY KEE SAFETY INC.. CONTRACTOR TO PROVIDE SEALED ENGINEERED SHOP DRAWINGS OF GUARDRAIL SYSTEMS. SEE ROOF PLANS FOR GUARDRAIL INSTALLATION.

5.0 LIGHTNING PROTECTION COMPONENTS: 5.1 LIGHTNING PROTECTION REINSTALLATION: TEMPORARILY REMOVE ALL EXISTING

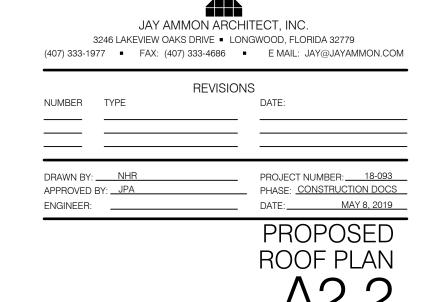
LIGHTNING AIR TERMINALS AND CABLES FROM THE SIDE SURFACES OF THE EXISTING METAL COPINGS, PARAPET WALLS AND ANY OTHER ROOF SURFACES WHICH ARE ATTACHED TO COMPONENTS DESCRIBED IN THIS SCOPE OF WORK. REINSTALL LIGHTNING PROTECTION SYSTEM IN ACCORDANCE WITH NFPA-780 BY A LICENSED CONTRACTOR WITH A MINIMUM 5 YEARS OF EXPERIENCE IN THE INSTALLATION OF LIGHTNING PROTECTION SYSTEMS. MAINTAIN OPERATION OF LIGHTNING PROTECTION SYSTEM DURING CONSTRUCTION. RE-CERTIFY THE REINSTALLED LIGHTNING

6.1 ROOF HATCH REPLACEMENT: REMOVE EXISTING ROOF HATCH AND INSTALL NEW BILCO TYPE S STAINLESS STEEL ROOF HATCH. INSTALL NEW STAINLESS STEEL LATCHING HARDWARE BY BILCO AT ROOF HATCH. INSTALL SKIRT FLASHING AT NEW ROOF HATCH AND BASE FLASHING

CONSTRUCTION DOCUMENTS

ORANGE COUNTY GOVERNMENT SOLID WASTE ADMINISTRATION BUILDING ORLANDO, FLORIDA ROOFING REPLACEMENT PROJECT

PROJECT NUMBER: 18-093



LEGEND:

PARAPET WALL

LINE OF WIND ZONE

ROOF AREA DESIGNATION 1 ZONE NUMBER

WIND PRESSURES:

WIND DESIGN FOR ROOFING COMPONENTS AND CLADDING: ASCE 7−10, Vult=150 mph wind, Vasd=116 mph wind, category III, Exposure "C", Kd = 0.85, h = VARIES ft., ENCLOSED BUILDING: GCpi = \pm 0.18. (VALUES USED TO MEET FM 1-28 "WIND DESIGN" FOR 1-90 WIND RATING) WIND UPLIFT PRESSURES SHOWN ARE GROSS PRESSURES FOR CORNER ZONE, EDGE ZONE, AND FIELD ZONE FOR ROOF COMPONENTS AND CLADDING (C & C). AREA ≤ 10 SF. WIND HAS BEEN CHECKED FOR AN ENCLOSED STRUCTURE AT EACH ROOF SLOPE AND HIGHEST WIND PRESSURES ARE SHOWN FOR EACH AREA.

FLORIDA BUILDING CODE 2017 ASCE 7-10.

WIND PRESSURES ROOF AREA A

WIND UPLIFT PRESSURE LEG	SEND:	ASCE 7-10 ROOF C & C
ROOF AREAS A — HEIGHT -	<u> 30'-0"</u>	DESIGN PRESSUR
ZONE 1 — FIELD ZONE	1	-34.1 PSF
ZONE 2 – EDGE ZONE	2	-57.2 PSF
ZONE 3 - CORNER ZONE	3	-86.6 PSF
DEPTH OF PERIMETER AND C	ORNER ZONES	FROM ROOF EDGE

'a' DIMENSION IS 12 FEET U.N.O.

WIND PRESSURES FOR ROOF AREA B

WIND UPLIFT PRESSURE LE ROOF AREAS B — HEIGHT		ASCE 7-10 ROOF C & C DESIGN PRESSU
ZONE 1 — FIELD ZONE	1	-31.3 PSF
ZONE 2 – EDGE ZONE	2	-52.5 PSF
ZONE 3 - CORNER ZONE	3	-79.0 PSF
DEPTH OF PERIMETER AND	CORNER ZONES	FROM ROOF ED

'a' DIMENSION IS 8 FEET U.N.O.

WIND PRESSURES FOR PERIMETER EDGE METAL:

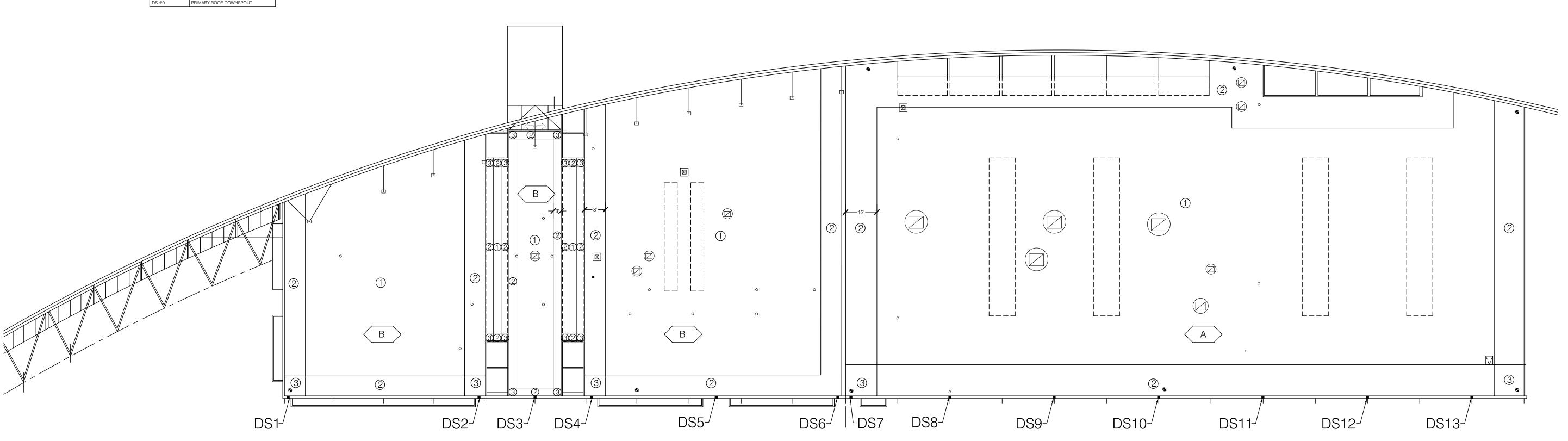
WIND UPLIFT PRESSURE LEGEND: ALL ROOF AREAS	ASCE 7-10 ROOF C & C DESIGN PRESSURE
ZONE 2 — ROOF EDGE PERIMETER — VERTICAL LOAD DIRECTION	-57.0 PSF
ZONE 3 — ROOF EDGE CORNERS — VERTICAL LOAD DIRECTION	-85.8 PSF
ZONE 4 — WALL EDGE PERIMETER — HORIZONTAL LOAD DIRECTION	-36.9 PSF
ZONE 5 - WALL EDGE CORNERS - HORIZONTAL LOAD DIRECTION	-45.5 PSF

ROOF DRAINAGE CALCULATIONS - EXISTING ROOF DRAINS

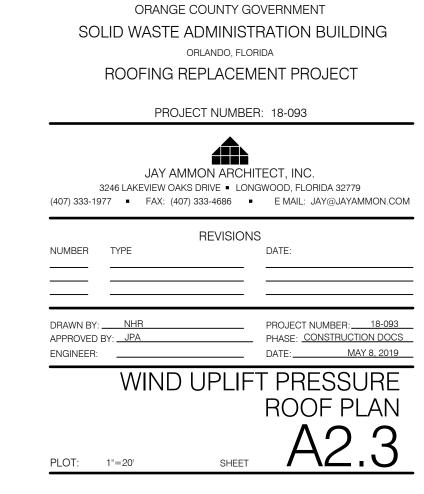
ROOF DRAIN/SCUPPER TRIBUTARY DESIGNATION	PRIMARY ROOF DOWNSPOUT SIZE	SECONDARY OVERFLOW DRAINAGE DESIGNATION	ROOF AREA (SQ. FT.)	ADDITIONAL ROOF AREA (SQ. FT.)	WALL AREA (SQ. FT.)	TOTAL TRIBUTARY AREA
DS1	4" DIAMETER	N/A	3294	0	800	3694
DS2	4" DIAMETER	N/A	4369	0	800	4769
DS3	4" DIAMETER	N/A	2768	0	0	2768
DS4	4" DIAMETER	N/A	4052	0	600	4352
DS5	4" DIAMETER	N/A	5352	0	800	5752
DS6	4" DIAMETER	N/A	3343	0	600	3643
DS7	5" DIAMETER	N/A	3429	0	80	3469
DS8	5" DIAMETER	N/A	4232	0	0	4232
DS9	5" DIAMETER	N/A	5005	0	0	5005
DS10	5" DIAMETER	N/A	5067	0	0	5067
DS11	5" DIAMETER	N/A	5284	0	0	5284
DS12	5" DIAMETER	N/A	4623	0	0	4623
DS13	5" DIAMETER	N/A	4721	0	120	4781

ROOF DRAINAGE LEGEND

SYMBOL	DESCRIPTION
DS #0	DDIMARY BOOK DOWNISHOLIT



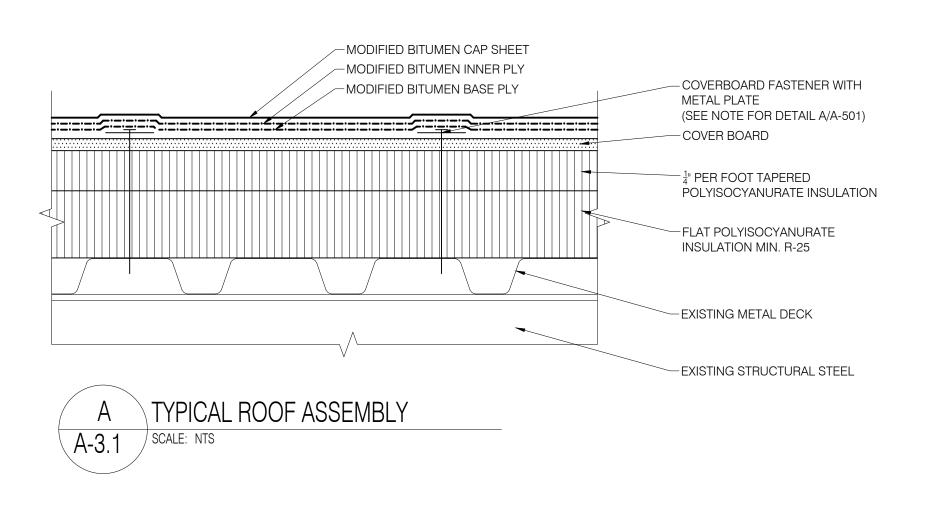


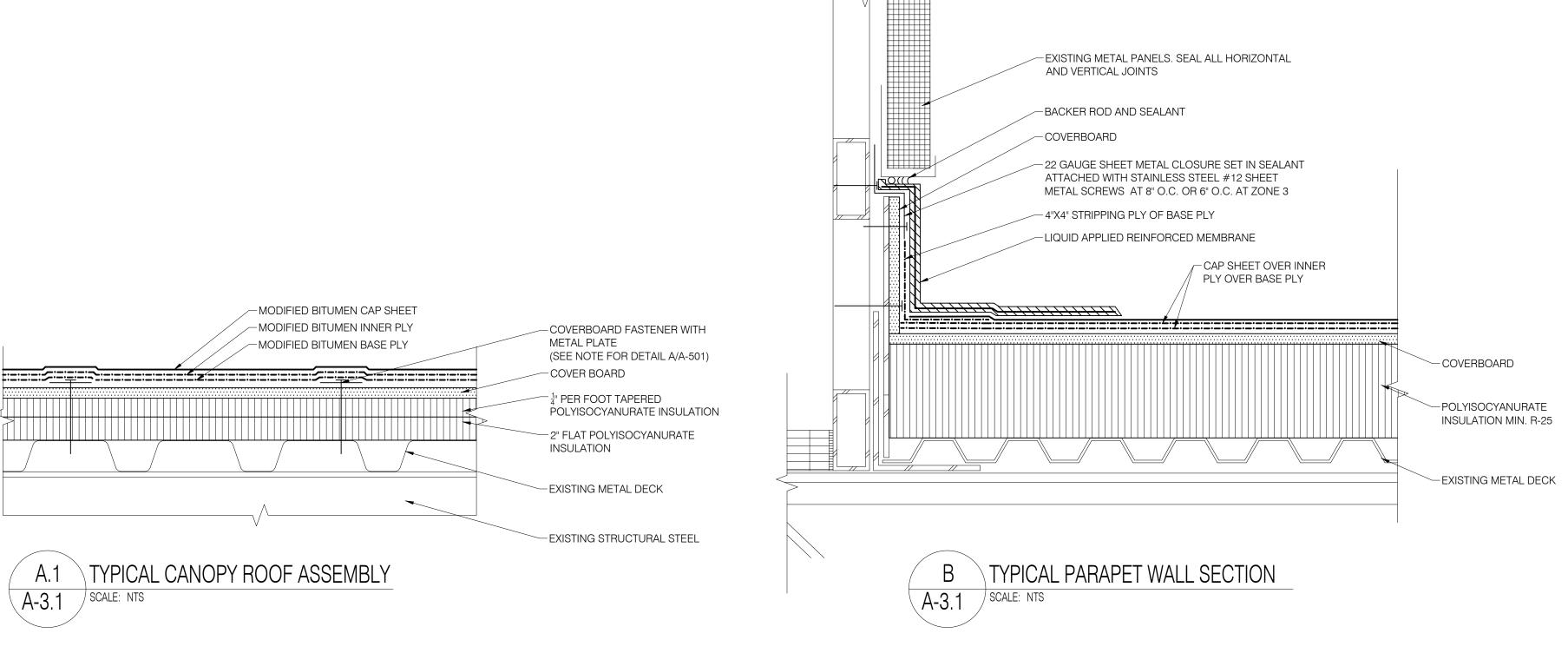


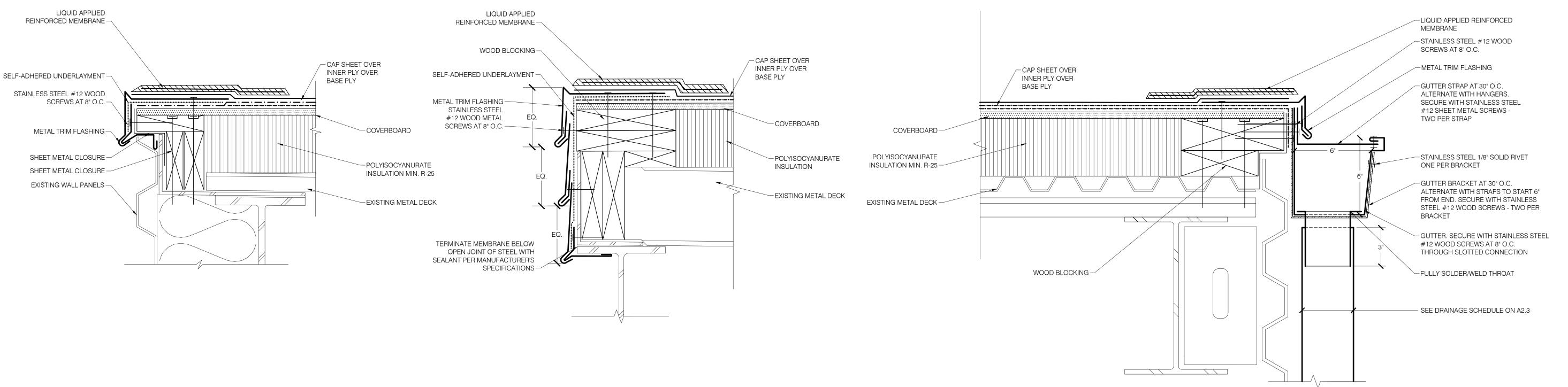
CONSTRUCTION DOCUMENTS

NOTES:

- A. FASTENER TYPE AND SPACING PER MANUFACTURER'S RECOMMENDATIONS / SYSTEM TEST CRITERIA, AND DESIGN WIND PRESSURES. PROVIDE PULL TEST REPORT TO MANUFACTURER AND INCLUDE WITHIN SUBMITTALS FOR BUILDING DEPARTMENT REVIEW. ALL FASTENER'S TO EXTEND THROUGH EXISTING METAL DECK.
- B. CONTRACTOR TO SUBMIT SEALED ENGINEERED SHOP DRAWINGS FOR ROOF SYSTEM ATTACHMENT PER PROJECT WIND UPLIFT CRITERIA AND PULL TEST RESULTS.
- C. INSTALL ROOF SYSTEM PER SPECIFICATION SECTION 075216 AND SCOPE OF WORK ITEM 1.0
- D. BASIS OF DESIGN: FLORIDA PRODUCT APPROVAL FL10342-R12













MATERIAL COMPONENT SCHEDULE

ROUGH CARPENTRY SPECIFICATION SECTION 061000 FRT WOOD BLOCKING: FIRE RETARDANT LUMBER.

MODIFIED BITUMEN ROOFING SPECIFICATION

SECTION 075216

BASE FLASHING - INNER PLY: SBS SMOOTH MODIFIED BITUMEN,

ASTM D 6163, TYPE 1, TORCHED APPLIED OVER SUBSTRATE BELOW.
MINIMUM 90 MILS THICK.

BASE FLASHING - OUTER PLY: SRS GRANULE SUBFACED

BASE FLASHING - OUTER PLY: SBS GRANULE SURFACED MODIFIED BITUMEN, ASTM D 6163, TYPE 2, TORCHED APPLIED OVER MEMBRANE BELOW. MIMIMUM 135 MILS THICK.

CANT STRIP: FIBERBOARD CANT FULLY ADHERED TO SUBSTRATES IN COLD MODIFIED BITUMINOUS ADHESIVE.

COVER BOARD: 1/2" FIBER-REINFORCED ROOF BOARD, ASTM C 1278. BASIS OF DESIGN: "SECUROCK GYPSUM-FIBER ROOF BOARD" MANUFACTURED BY USG.

LIQUID-APPLIED REINFORCED MEMBRANE: THREE COAT LIQUID APPLIED REINFORCED FLASHING SYSTEM WITH FIBERGLASS FABRIC APPROVED BY ROOFING MEMBRANE MANUFACTURER.

MODIFIED BITUMEN BASE PLY: SBS SMOOTH MODIFIED BITUMEN, ASTM D 6163, TYPE 1, TORCH APPLIED OVER SUBSTRATE

BELOW. MINIMUM 90 MILS THICK.

MODIFIED BITUMEN INNER PLY: SBS SMOOTH MODIFIED

BITUMEN, ASTM D 6163, TYPE 1, TORCHED APPLIED OVER SUBSTRATE

MEMBRANE BELOW. MINIMUM 135 MILS THICK.

BELOW. MINIMUM 90 MILS THICK.

MODIFIED BITUMEN CAP SHEET: SBS GRANULE SURFACED

MODIFIED BITUMEN, ASTM D 6163, TYPE 1, TORCHED APPLIED OVER

RIGID INSULATION: POLYISOCYANURATE INSULATION, ASTM C 1289 TYPE 2, MIN. 20 PSI, FLAT INSULATION BOARDS. INSTALL TAPERED INSULATION OVER FLAT INSULATION WHERE DESIGNATED AND AS REQUIRED TO ACHIEVE A 1/4 INCH PER FOOT POSITIVE SLOPE WITH NO PONDING AFTER 24 HOUR DRYING TIME. TAPERED INSULATION SHALL BE FABRICATED AT ZERO INCH THICKNESS AT THIN EDGE.

ROOF TRAFFIC PADS: SBS MODIFIED BITUMEN WITH GRANULATED SURFACE, ASTM D 6163, TYPE 2, WITH COLOR CONTRAST TO THE CAP SHEET. COLOR TO BE SELECTED BY OWNER. TORCH APPLIED OVER

PRIMED CAP SHEET. MIN. 200 MILS THICK. **SELF-ADHERED UNDERLAYMENT:** GCP APPLIED

TECHNOLORGIES GRACE ULTRA, HIGH TEMPERATURE, MIN. 280

DEGREES F., .030" THCIK, SELF-ADHERED BUTYL BASED MEMBRANE

ASTM D1204, ADHERED OVER PRIMED SUBSTRATE BELOW.

FLASHING AND SHEET METAL SPECIFICATION SECTION 076200

BENT METAL PLATE: 16 GAUGE, GALVANIZED STEEL G90.

DOWNSPOUT: .040 ALUMINUM. .060 ALUMINUM AT BOTTOM 6',
PRIMED AND PAINTED TO MATCH EXISTING

DOWNSPOUT STRAPS: 22 GAUGE STAINLESS STEEL, TYPE 304

EXPANSION JOINT COVER: 22 GAUGE STAINLESS STEEL, TYPE

EXPANSION JOINT CLEAT: 20 GAUGE STAINLESS STEEL, TYPE 316.

GUTTER: 16 GAUGE STAINLESS STEEL, TYPE 316

GUTTER BRACKET: 1 BENT STAINLESS STEEL, TYPE 316

GUTTER STRAP: 22 GAUGE STAINLESS STEEL, TYPE 304

GUTTER STRAP: 22 GAUGE STAINLESS STEEL, TYPE 304
METAL CLEAT: 20 GAUGE STAINLESS STEEL, TYPE 316.
METAL COUNTERFLASHING: 22 GAUGE STAINLESS STEEL, TYPE 316.

METAL SKIRT FLASHING: 22 GAUGE STAINLESS STEEL, TYPE 316.

METAL TRIM FLASHING: 22 GAUGE STAINLESS STEEL, TYPE 316.

ONE-PIECE TRANSITION FLASHING: 22 GAUGE STAINLESS

STEEL, TYPE 304.

METAL EDGE: 22 GAUGE STAINLESS STEEL, TYPE 316.

TERMINATION BAR: 1/8" THICK X 1" WIDE STAINLESS STEEL.

ROOF ACCESSORIES: SPECIFICATION SECTION 077200

ROOF HATCH: BASIS OF DESIGN: BILCO TYPE "S-50TB" ENHANCED

PERFORMANCE ALUMINUM ROOF HATCH WITH INSULATION CURB LINER.

JOINT SEALANTS SPECIFICATION SECTION 07920

BACKER ROD: CLOSED-CELL BACKER ROD.
BUTYL SEALANT: ONE-PART GUN GRADE, BUTYL-RUBBER BASED
JOINT SEALANT, ASTM C 1311.
SILICONE SEALANT: SINGLE-COMPONENT, NONSAG,

GRADE NS, CLASS 100/50, FOR USE NT. APPLIED TO PRIMED SURFACES.

SEALANT TAPE: 1" WIDE BUTYL SEALANT TAPE, APPLIED BETWEEN

NEUTRAL-CURING SILICONE JOINT SEALANT: ASTM C 920, TYPE S,

METAL SURFACES AND UNDERLYING SURFACE. **STRUCTURAL SEALANT:** SINGLE-COMPONENT, MOISTURE
CURING, GUN GRADE ADHESIVE, "M-1" MANUFACTURED BY CHEM LINK

ENGINEERED SYSTEMS.

URETHANE SEALANT: SINGLE-COMPONENT, NONSAG,
POLYURETHANE JOINT SEALANT: ASTM C 920, TYPE S, GRADE NS,
CLASS 100/50, FOR USE NT. APPLIED TO PRIMED SURFACES.

CONSTRUCTION DOCUMENTS

ORANGE COUNTY GOVERNMENT
SOLID WASTE ADMINISTRATION BUILDING
ORLANDO, FLORIDA

ROOFING REPLACEMENT PROJECT

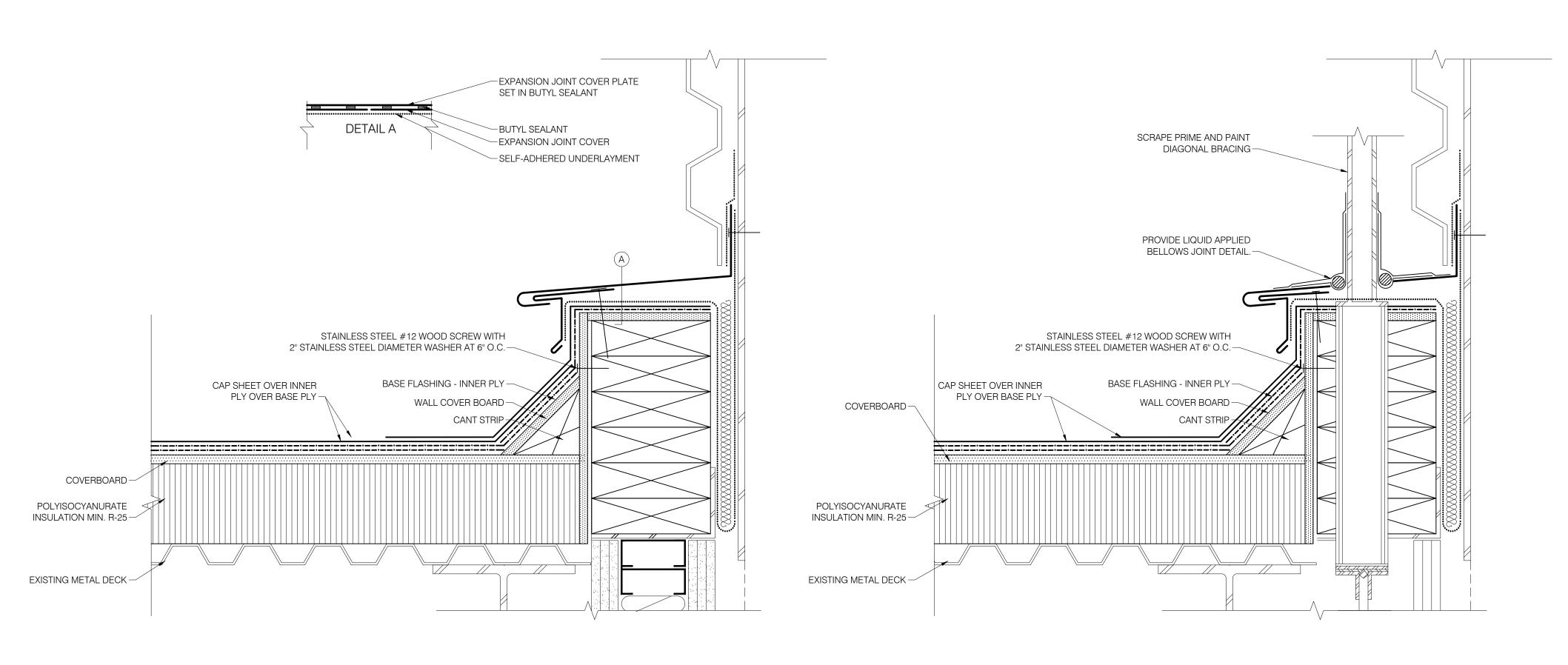
PROJECT NUMBER: 18-093

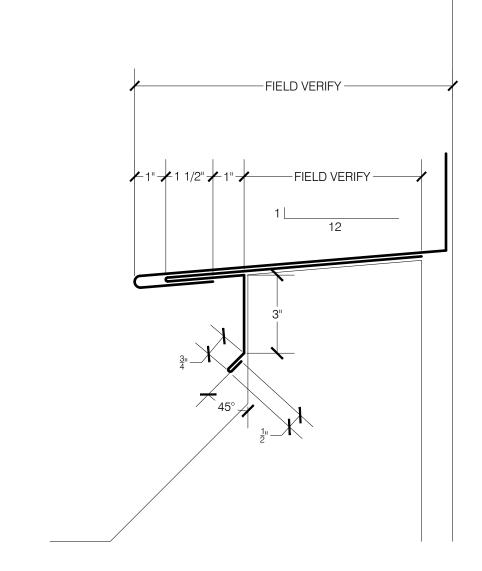


DRAWN BY: NHR PROJECT NUMBER: 18-093
APPROVED BY: JPA PHASE: CONSTRUCTION DOCS
ENGINEER: DATE: MAY 8, 2019

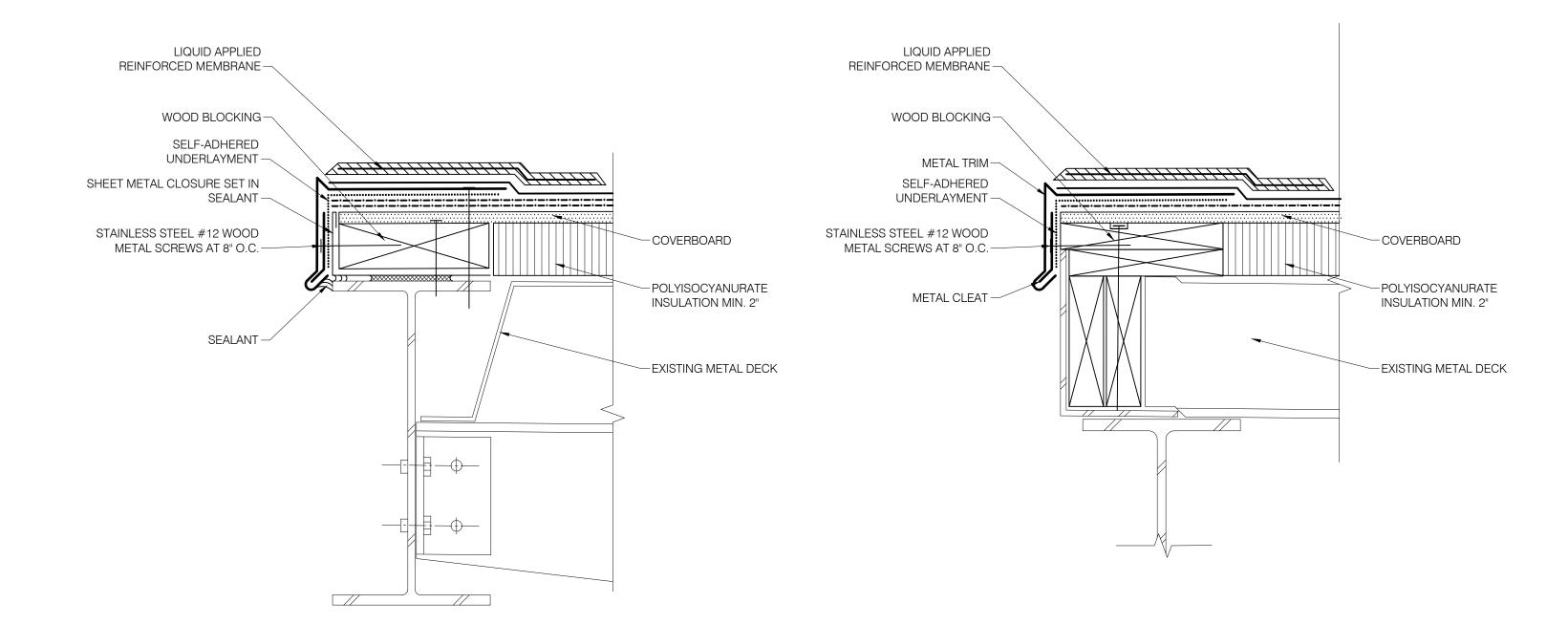
ROOF REPLACEMENT DETAILS

3"=1" A3.1



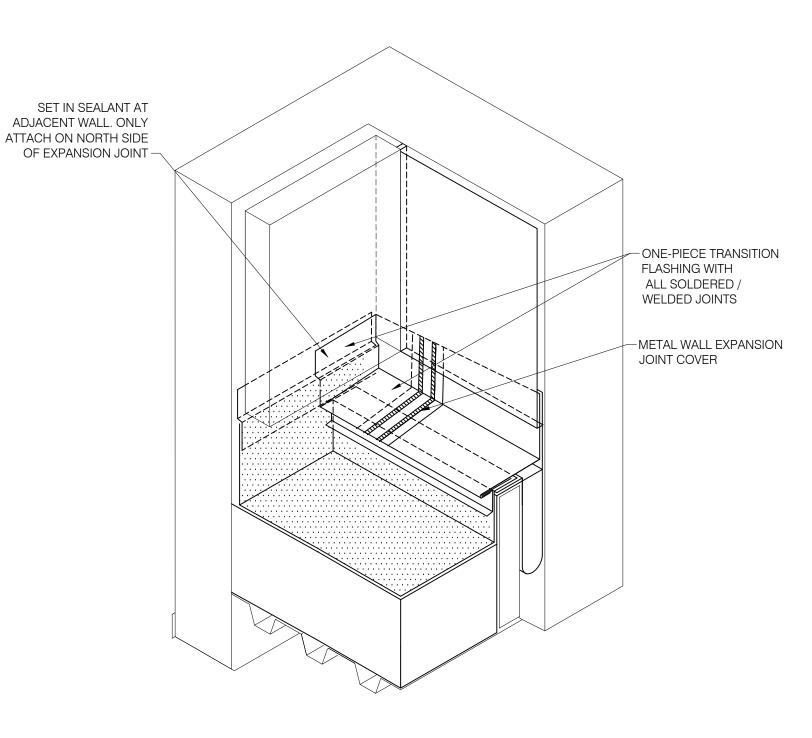












INSIDE CORNER ROOF TO WALL EXPANSION JOINT ISOMETRIC SCALE: NTS

MATERIAL COMPONENT SCHEDULE

ROUGH CARPENTRY SPECIFICATION SECTION 061000 FRT WOOD BLOCKING: FIRE RETARDANT LUMBER.

MODIFIED BITUMEN ROOFING SPECIFICATION SECTION 075216

BASE FLASHING - INNER PLY: SBS SMOOTH MODIFIED BITUMEN,

ASTM D 6163, TYPE 1, TORCHED APPLIED OVER SUBSTRATE BELOW. MINIMUM 90 MILS THICK.

BASE FLASHING - OUTER PLY: SBS GRANULE SURFACED MODIFIED BITUMEN, ASTM D 6163, TYPE 2, TORCHED APPLIED OVER MEMBRANE BELOW. MIMIMUM 135 MILS THICK. CANT STRIP: FIBERBOARD CANT FULLY ADHERED TO SUBSTRATES IN

COLD MODIFIED BITUMINOUS ADHESIVE. COVER BOARD: 1/2" FIBER-REINFORCED ROOF BOARD, ASTM C 1278. BASIS OF DESIGN: "SECUROCK GYPSUM-FIBER ROOF BOARD" MANUFACTURED BY USG.

LIQUID-APPLIED REINFORCED MEMBRANE: THREE COAT LIQUID APPLIED REINFORCED FLASHING SYSTEM WITH FIBERGLASS FABRIC APPROVED BY ROOFING MEMBRANE MANUFACTURER. MODIFIED BITUMEN BASE PLY: SBS SMOOTH MODIFIED BITUMEN, ASTM D 6163, TYPE 1, TORCH APPLIED OVER SUBSTRATE

BELOW. MINIMUM 90 MILS THICK. MODIFIED BITUMEN INNER PLY: SBS SMOOTH MODIFIED BITUMEN, ASTM D 6163, TYPE 1, TORCHED APPLIED OVER SUBSTRATE

BELOW. MINIMUM 90 MILS THICK. MODIFIED BITUMEN CAP SHEET: SBS GRANULE SURFACED MODIFIED BITUMEN, ASTM D 6163, TYPE 1, TORCHED APPLIED OVER MEMBRANE BELOW. MINIMUM 135 MILS THICK.

RIGID INSULATION: POLYISOCYANURATE INSULATION, ASTM C 1289 TYPE 2, MIN. 20 PSI, FLAT INSULATION BOARDS. INSTALL TAPERED INSULATION OVER FLAT INSULATION WHERE DESIGNATED AND AS REQUIRED TO ACHIEVE A 1/4 INCH PER FOOT POSITIVE SLOPE WITH NO PONDING AFTER 24 HOUR DRYING TIME. TAPERED INSULATION SHALL BE FABRICATED AT ZERO INCH THICKNESS AT THIN EDGE. ROOF TRAFFIC PADS: SBS MODIFIED BITUMEN WITH GRANULATED SURFACE, ASTM D 6163, TYPE 2, WITH COLOR CONTRAST TO THE CAP SHEET. COLOR TO BE SELECTED BY OWNER. TORCH APPLIED OVER PRIMED CAP SHEET. MIN. 200 MILS THICK.

SELF-ADHERED UNDERLAYMENT: GCP APPLIED TECHNOLORGIES GRACE ULTRA, HIGH TEMPERATURE, MIN. 280 DEGREES F., .030" THCIK, SELF-ADHERED BUTYL BASED MEMBRANE ASTM D1204, ADHERED OVER PRIMED SUBSTRATE BELOW.

FLASHING AND SHEET METAL SPECIFICATION SECTION 076200

BENT METAL PLATE: 16 GAUGE, GALVANIZED STEEL G90. **DOWNSPOUT:** .040 ALUMINUM. .060 ALUMINUM AT BOTTOM 6', PRIMED AND PAINTED TO MATCH EXISTING **DOWNSPOUT STRAPS:** 22 GAUGE STAINLESS STEEL, TYPE 304

EXPANSION JOINT COVER: 22 GAUGE STAINLESS STEEL, TYPE

EXPANSION JOINT CLEAT: 20 GAUGE STAINLESS STEEL, TYPE 316.

GUTTER: 16 GAUGE STAINLESS STEEL, TYPE 316 GUTTER BRACKET: ¹/₈ X 1" BENT STAINLESS STEEL, TYPE 316 **GUTTER STRAP:** 22 GAUGE STAINLESS STEEL, TYPE 304 METAL CLEAT: 20 GAUGE STAINLESS STEEL, TYPE 316. METAL COUNTERFLASHING: 22 GAUGE STAINLESS STEEL, TYPE

METAL EDGE: 22 GAUGE STAINLESS STEEL, TYPE 316. METAL SKIRT FLASHING: 22 GAUGE STAINLESS STEEL, TYPE 316. METAL TRIM FLASHING: 22 GAUGE STAINLESS STEEL, TYPE 316.

ONE-PIECE TRANSITION FLASHING: 22 GAUGE STAINLESS

STEEL, TYPE 304. TERMINATION BAR: 1/8" THICK X 1" WIDE STAINLESS STEEL.

ROOF ACCESSORIES: SPECIFICATION SECTION 077200 ROOF HATCH: BASIS OF DESIGN: BILCO TYPE "S-50TB" ENHANCED PERFORMANCE ALUMINUM ROOF HATCH WITH INSULATION CURB

JOINT SEALANTS SPECIFICATION SECTION 07920 BACKER ROD: CLOSED-CELL BACKER ROD.

BUTYL SEALANT: ONE-PART GUN GRADE, BUTYL-RUBBER BASED JOINT SEALANT, ASTM C 1311. SILICONE SEALANT: SINGLE-COMPONENT, NONSAG, NEUTRAL-CURING SILICONE JOINT SEALANT: ASTM C 920, TYPE S,

GRADE NS, CLASS 100/50, FOR USE NT. APPLIED TO PRIMED SURFACES. **SEALANT TAPE:** 1" WIDE BUTYL SEALANT TAPE, APPLIED BETWEEN METAL SURFACES AND UNDERLYING SURFACE.

STRUCTURAL SEALANT: SINGLE-COMPONENT, MOISTURE CURING, GUN GRADE ADHESIVE, "M-1" MANUFACTURED BY CHEM LINK ENGINEERED SYSTEMS.

URETHANE SEALANT: SINGLE-COMPONENT, NONSAG, POLYURETHANE JOINT SEALANT: ASTM C 920, TYPE S, GRADE NS, CLASS 100/50, FOR USE NT. APPLIED TO PRIMED SURFACES.

CONSTRUCTION DOCUMENTS
ORANGE COUNTY GOVERNMENT

SOLID WASTE ADMINISTRATION BUILDING ORLANDO, FLORIDA

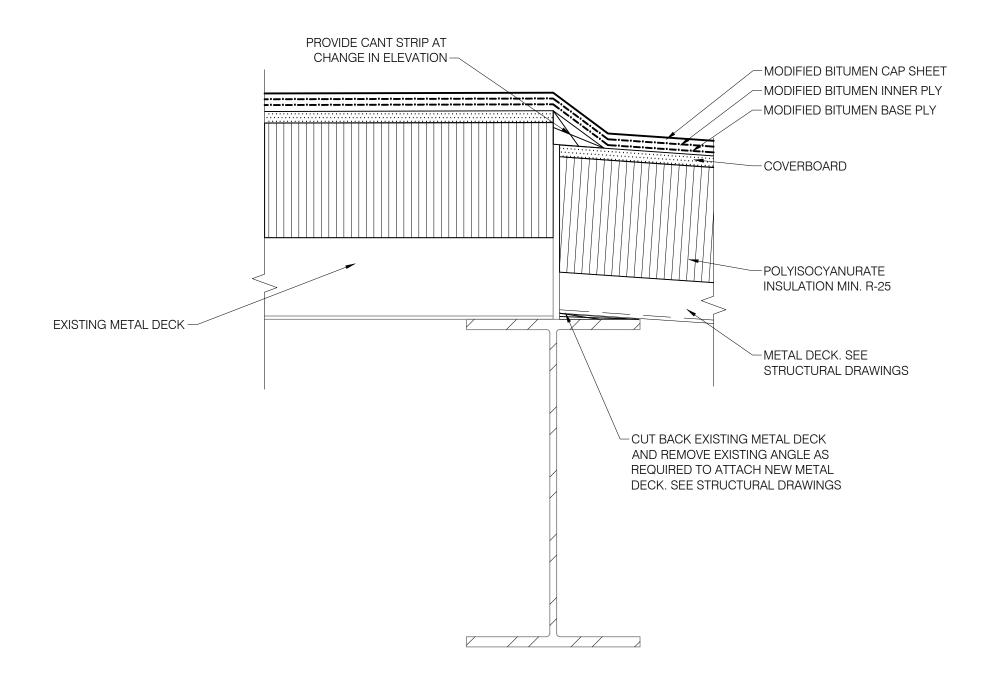
ROOFING REPLACEMENT PROJECT

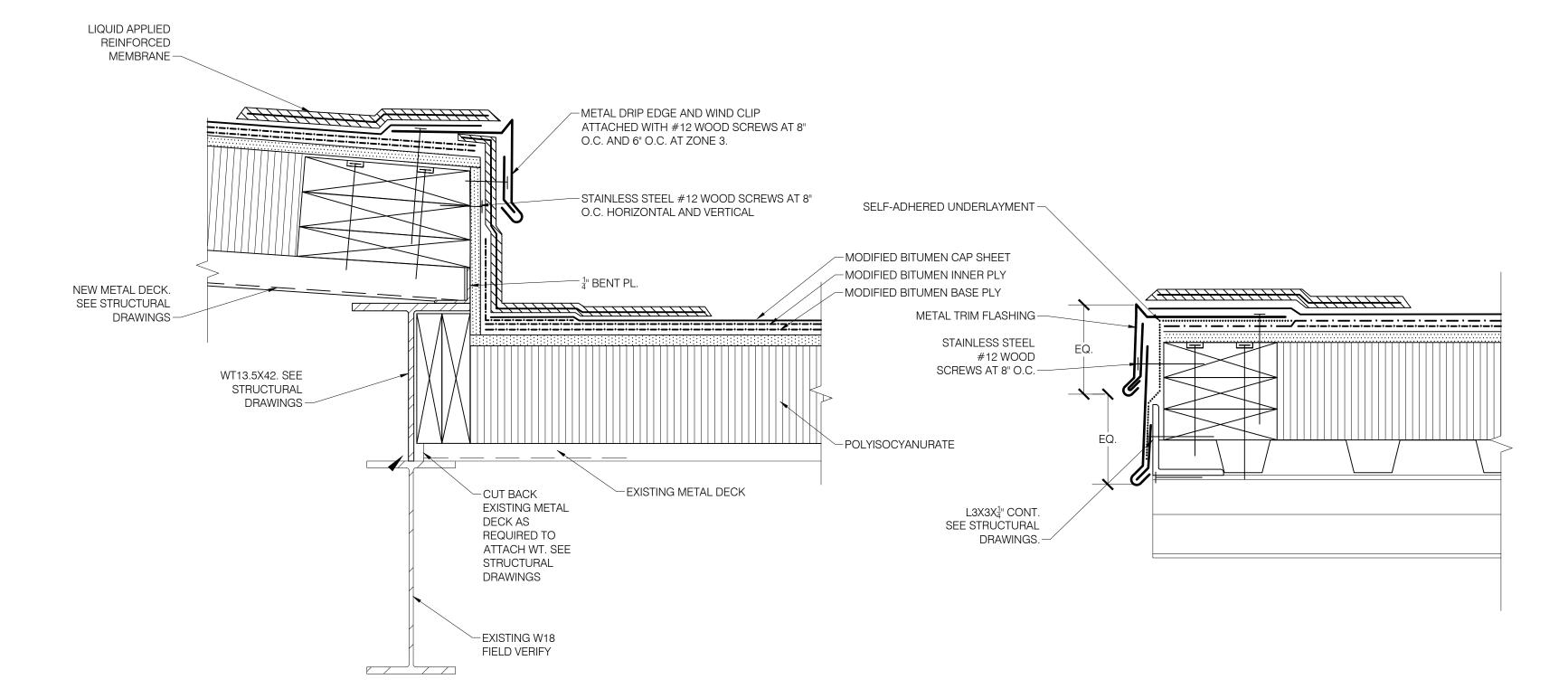
PROJECT NUMBER: 18-093

JAY AMMON ARCHITECT, INC. 3246 LAKEVIEW OAKS DRIVE LONGWOOD, FLORIDA 32779 (407) 333-1977 • FAX: (407) 333-4686 • E MAIL: JAY@JAYAMMON.COM

NUMBER	TYPE	REVISIONS	DATE:	
				_
DRAWN BY: _ APPROVED B ENGINEER:	NHR SY: JPA		PROJECT NUMBER: 18 PHASE: CONSTRUCTION DATE: MAY 8,	DO

ROOF REPLACEMENT



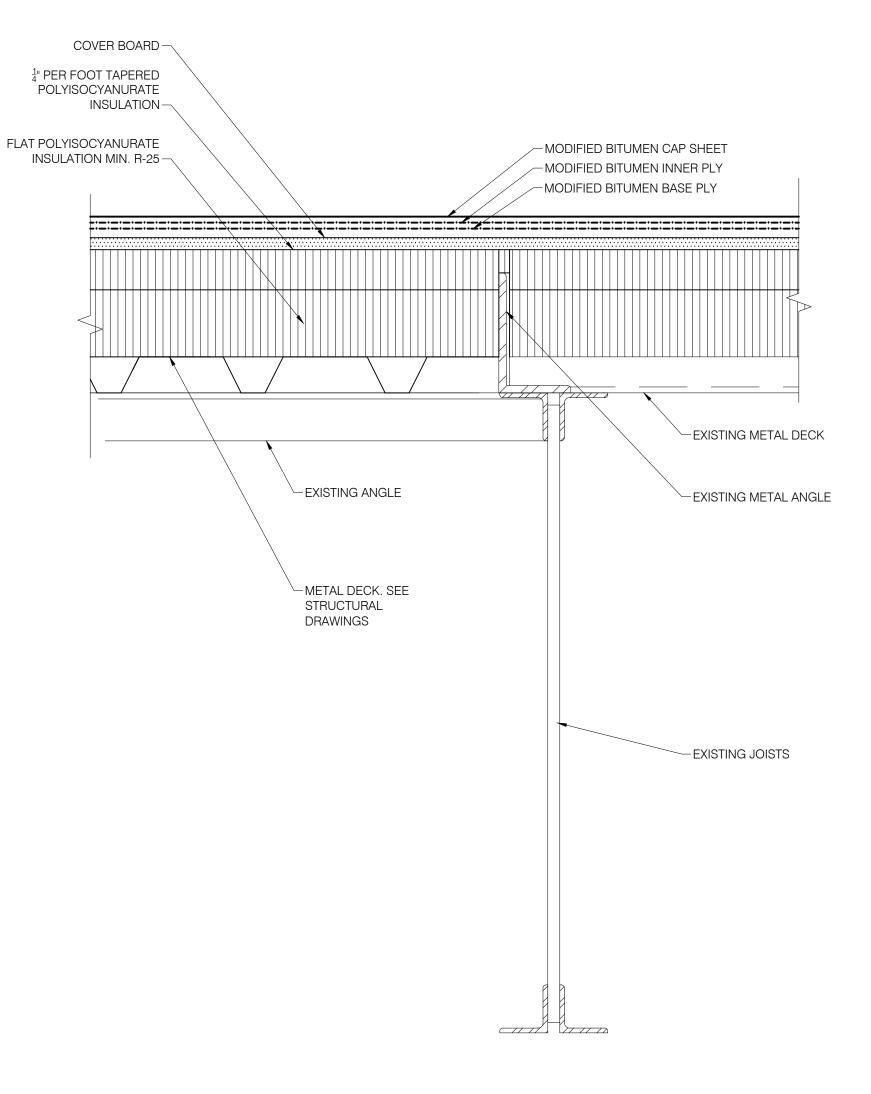


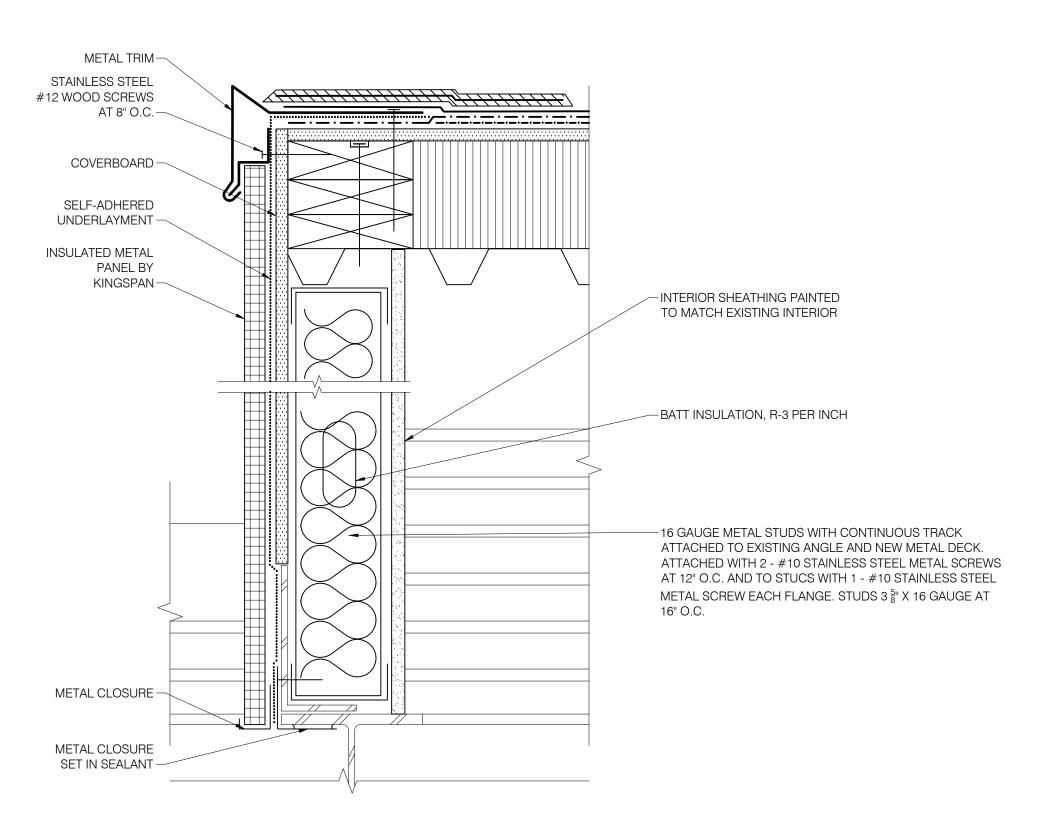
TRANSITION AT REMOVED SKYLIGHT AT COLUMN LIN 5 AND 7 SCALE: NTS

AT COLUMN LIN 5 AND 7 SCALE: NTS

TRANSITION AT REMOVED SKYLIGHT

SCALE: NTS





DRIP EDGE AT RAKE EDGE AT COLUMN LINE A.5 AND C.5 CONSTRUCTION DOCUMENTS ORANGE COUNTY GOVERNMENT

SOLID WASTE ADMINISTRATION BUILDING ORLANDO, FLORIDA

MATERIAL COMPONENT SCHEDULE

ROUGH CARPENTRY SPECIFICATION SECTION 061000

MODIFIED BITUMEN ROOFING SPECIFICATION

BASE FLASHING - OUTER PLY: SBS GRANULE SURFACED

MODIFIED BITUMEN, ASTM D 6163, TYPE 2, TORCHED APPLIED OVER

COVER BOARD: 1/2" FIBER-REINFORCED ROOF BOARD, ASTM C

LIQUID-APPLIED REINFORCED MEMBRANE: THREE COAT

FABRIC APPROVED BY ROOFING MEMBRANE MANUFACTURER.

MODIFIED BITUMEN BASE PLY: SBS SMOOTH MODIFIED

MODIFIED BITUMEN INNER PLY: SBS SMOOTH MODIFIED

LIQUID APPLIED REINFORCED FLASHING SYSTEM WITH FIBERGLASS

BITUMEN, ASTM D 6163, TYPE 1, TORCH APPLIED OVER SUBSTRATE

BITUMEN, ASTM D 6163, TYPE 1, TORCHED APPLIED OVER SUBSTRATE

MODIFIED BITUMEN CAP SHEET: SBS GRANULE SURFACED

MODIFIED BITUMEN, ASTM D 6163, TYPE 1, TORCHED APPLIED OVER

RIGID INSULATION: POLYISOCYANURATE INSULATION, ASTM C 1289 TYPE 2, MIN. 20 PSI, FLAT INSULATION BOARDS. INSTALL TAPERED INSULATION OVER FLAT INSULATION WHERE DESIGNATED AND AS

REQUIRED TO ACHIEVE A 1/4 INCH PER FOOT POSITIVE SLOPE WITH NO PONDING AFTER 24 HOUR DRYING TIME. TAPERED INSULATION SHALL

ROOF TRAFFIC PADS: SBS MODIFIED BITUMEN WITH GRANULATED

SURFACE, ASTM D 6163, TYPE 2, WITH COLOR CONTRAST TO THE CAP

SHEET. COLOR TO BE SELECTED BY OWNER. TORCH APPLIED OVER

TECHNOLORGIES GRACE ULTRA, HIGH TEMPERATURE, MIN. 280

FLASHING AND SHEET METAL SPECIFICATION

BENT METAL PLATE: 16 GAUGE, GALVANIZED STEEL G90. **DOWNSPOUT:** .040 ALUMINUM. .060 ALUMINUM AT BOTTOM 6',

DOWNSPOUT STRAPS: 22 GAUGE STAINLESS STEEL, TYPE 304 **EXPANSION JOINT COVER:** 22 GAUGE STAINLESS STEEL, TYPE

GUTTER BRACKET: ½ X 1" BENT STAINLESS STEEL, TYPE 316

GUTTER STRAP: 22 GAUGE STAINLESS STEEL, TYPE 304 METAL CLEAT: 20 GAUGE STAINLESS STEEL, TYPE 316.

METAL EDGE: 22 GAUGE STAINLESS STEEL, TYPE 316.

EXPANSION JOINT CLEAT: 20 GAUGE STAINLESS STEEL, TYPE 316.

METAL COUNTERFLASHING: 22 GAUGE STAINLESS STEEL, TYPE

METAL SKIRT FLASHING: 22 GAUGE STAINLESS STEEL, TYPE 316.

METAL TRIM FLASHING: 22 GAUGE STAINLESS STEEL, TYPE 316. ONE-PIECE TRANSITION FLASHING: 22 GAUGE STAINLESS

TERMINATION BAR: 1/8" THICK X 1" WIDE STAINLESS STEEL.

ROOF ACCESSORIES: SPECIFICATION SECTION 077200

PERFORMANCE ALUMINUM ROOF HATCH WITH INSULATION CURB

JOINT SEALANTS SPECIFICATION SECTION 07920

SILICONE SEALANT: SINGLE-COMPONENT, NONSAG,

BACKER ROD: CLOSED-CELL BACKER ROD.

METAL SURFACES AND UNDERLYING SURFACE.

JOINT SEALANT, ASTM C 1311.

ENGINEERED SYSTEMS.

ROOF HATCH: BASIS OF DESIGN: BILCO TYPE "S-50TB" ENHANCED

BUTYL SEALANT: ONE-PART GUN GRADE, BUTYL-RUBBER BASED

NEUTRAL-CURING SILICONE JOINT SEALANT: ASTM C 920, TYPE S. GRADE NS, CLASS 100/50, FOR USE NT. APPLIED TO PRIMED

SEALANT TAPE: 1" WIDE BUTYL SEALANT TAPE, APPLIED BETWEEN

CURING, GUN GRADE ADHESIVE, "M-1" MANUFACTURED BY CHEM LINK

STRUCTURAL SEALANT: SINGLE-COMPONENT, MOISTURE

POLYURETHANE JOINT SEALANT: ASTM C 920, TYPE S, GRADE NS,

URETHANE SEALANT: SINGLE-COMPONENT, NONSAG,

CLASS 100/50, FOR USE NT. APPLIED TO PRIMED SURFACES.

ASTM D1204, ADHERED OVER PRIMED SUBSTRATE BELOW.

DEGREES F., .030" THCIK, SELF-ADHERED BUTYL BASED MEMBRANE

BE FABRICATED AT ZERO INCH THICKNESS AT THIN EDGE.

SELF-ADHERED UNDERLAYMENT: GCP APPLIED

1278. BASIS OF DESIGN: "SECUROCK GYPSUM-FIBER ROOF BOARD"

CANT STRIP: FIBERBOARD CANT FULLY ADHERED TO SUBSTRATES IN

BASE FLASHING - INNER PLY: SBS SMOOTH MODIFIED BITUMEN, ASTM D 6163, TYPE 1, TORCHED APPLIED OVER SUBSTRATE BELOW.

FRT WOOD BLOCKING: FIRE RETARDANT LUMBER.

MEMBRANE BELOW. MIMIMUM 135 MILS THICK.

COLD MODIFIED BITUMINOUS ADHESIVE.

SECTION 075216

MINIMUM 90 MILS THICK.

MANUFACTURED BY USG.

BELOW. MINIMUM 90 MILS THICK.

BELOW. MINIMUM 90 MILS THICK.

MEMBRANE BELOW. MINIMUM 135 MILS THICK.

PRIMED CAP SHEET. MIN. 200 MILS THICK.

PRIMED AND PAINTED TO MATCH EXISTING

GUTTER: 16 GAUGE STAINLESS STEEL, TYPE 316

SECTION 076200

STEEL, TYPE 304.

LINER.

SURFACES.

PROJECT NUMBER: 18-093

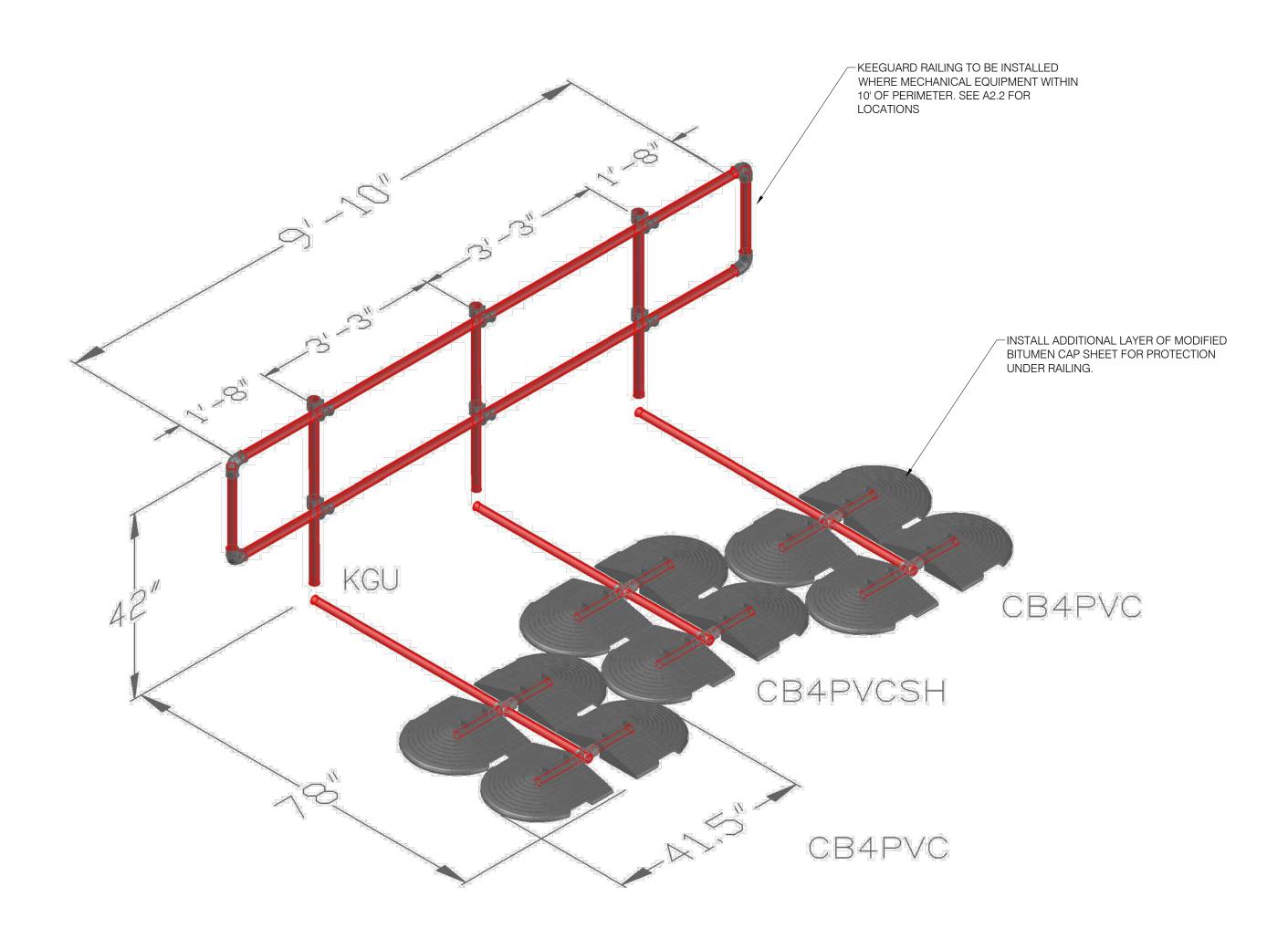
ROOFING REPLACEMENT PROJECT

JAY AMMON ARCHITECT, INC. 3246 LAKEVIEW OAKS DRIVE . LONGWOOD, FLORIDA 32779 (407) 333-1977 × FAX: (407) 333-4686 × E MAIL: JAY@JAYAMMON.COM REVISIONS

PROJECT NUMBER: 18-093 DRAWN BY: NHR PHASE: CONSTRUCTION DOCS DATE: MAY 8, 2019

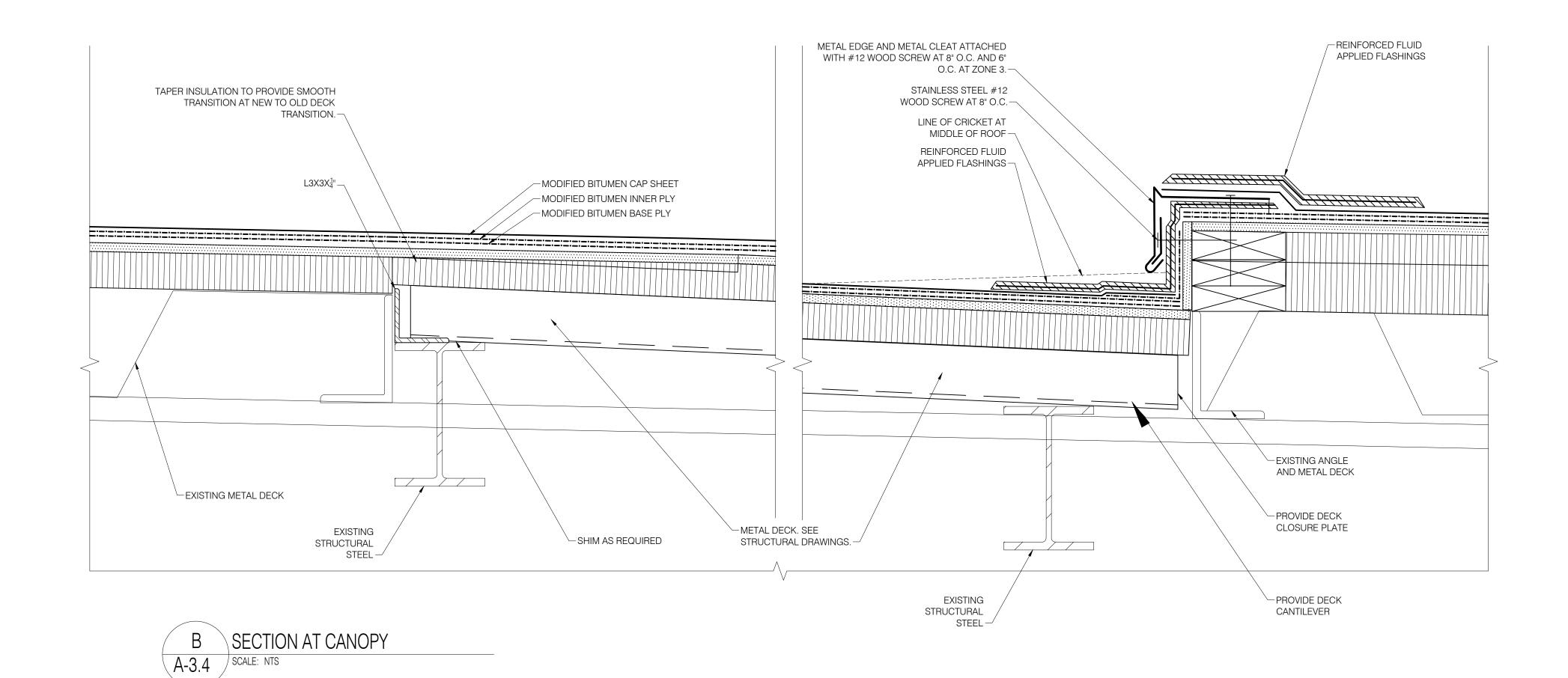
ROOF REPLACEMENT

BASE FLASHING AT SILL OF SKYLIGHT A-3.3 SCALE: NTS



A TYPICAL KEEGUARD RAILING DETAIL

A-3.4 SCALE: NTS



MATERIAL COMPONENT SCHEDULE

ROUGH CARPENTRY SPECIFICATION SECTION 061000 FRT WOOD BLOCKING: FIRE RETARDANT LUMBER.

MODIFIED BITUMEN ROOFING SPECIFICATION
SECTION 075216

SECTION 075216 **BASE FLASHING - INNER PLY:** SBS SMOOTH MODIFIED BITUMEN,

ASTM D 6163, TYPE 1, TORCHED APPLIED OVER SUBSTRATE BELOW.
MINIMUM 90 MILS THICK.

BASE FLASHING - OUTER PLY: SBS GRANULE SURFACED

MODIFIED BITLINGS. ASTM D 6163, TYPE 2, TORCHED APPLIED OVER

MODIFIED BITUMEN, ASTM D 6163, TYPE 2, TORCHED APPLIED OVER MEMBRANE BELOW. MIMIMUM 135 MILS THICK.

CANT STRIP: FIBERBOARD CANT FULLY ADHERED TO SUBSTRATES IN COLD MODIFIED BITUMINOUS ADHESIVE.

COVER BOARD: 1/2" FIBER-REINFORCED ROOF BOARD, ASTM C
1278. BASIS OF DESIGN: "SECUROCK GYPSUM-FIBER ROOF BOARD"
MANUFACTURED BY USG.
LIQUID-APPLIED REINFORCED MEMBRANE: THREE COAT

LIQUID APPLIED REINFORCED FLASHING SYSTEM WITH FIBERGLASS

FABRIC APPROVED BY ROOFING MEMBRANE MANUFACTURER.

MODIFIED BITUMEN BASE PLY: SBS SMOOTH MODIFIED

BITUMEN, ASTM D 6163, TYPE 1, TORCH APPLIED OVER SUBSTRATE

BELOW. MINIMUM 90 MILS THICK.

MODIFIED BITUMEN INNER PLY: SBS SMOOTH MODIFIED

MODIFIED BITUMEN INNER PLY: SBS SMOOTH MODIFIED BITUMEN, ASTM D 6163, TYPE 1, TORCHED APPLIED OVER SUBSTRATE BELOW. MINIMUM 90 MILS THICK.

MODIFIED BITUMEN CAP SHEET: SBS GRANULE SURFACED MODIFIED BITUMEN, ASTM D 6163, TYPE 1, TORCHED APPLIED OVER MEMBRANE BELOW. MINIMUM 135 MILS THICK.

RIGID INSULATION: POLYISOCYANURATE INSULATION, ASTM C 1289 TYPE 2, MIN. 20 PSI, FLAT INSULATION BOARDS. INSTALL TAPERED INSULATION OVER FLAT INSULATION WHERE DESIGNATED AND AS REQUIRED TO ACHIEVE A 1/4 INCH PER FOOT POSITIVE SLOPE WITH NO PONDING AFTER 24 HOUR DRYING TIME. TAPERED INSULATION SHALL BE FABRICATED AT ZERO INCH THICKNESS AT THIN EDGE.

ROOF TRAFFIC PADS: SBS MODIFIED BITUMEN WITH GRANULATED SURFACE, ASTM D 6163, TYPE 2, WITH COLOR CONTRAST TO THE CAP SHEET. COLOR TO BE SELECTED BY OWNER. TORCH APPLIED OVER PRIMED CAP SHEET. MIN. 200 MILS THICK.

SELF-ADHERED UNDERLAYMENT: GCP APPLIED
TECHNOLORGIES GRACE ULTRA, HIGH TEMPERATURE, MIN. 280
DEGREES F., .030" THCIK, SELF-ADHERED BUTYL BASED MEMBRANE
ASTM D1204, ADHERED OVER PRIMED SUBSTRATE BELOW.

FLASHING AND SHEET METAL SPECIFICATION SECTION 076200

BENT METAL PLATE: 16 GAUGE, GALVANIZED STEEL G90.

DOWNSPOUT: .040 ALUMINUM. .060 ALUMINUM AT BOTTOM 6',
PRIMED AND PAINTED TO MATCH EXISTING

DOWNSPOUT STRAPS: 22 GAUGE STAINLESS STEEL, TYPE 304

EXPANSION JOINT COVER: 22 GAUGE STAINLESS STEEL, TYPE

GUTTER: 16 GAUGE STAINLESS STEEL, TYPE 316
GUTTER BRACKET: 1 X 1 BENT STAINLESS STEEL, TYPE 316
GUTTER STRAP: 22 GAUGE STAINLESS STEEL, TYPE 304
METAL CLEAT: 20 GAUGE STAINLESS STEEL, TYPE 316.

EXPANSION JOINT CLEAT: 20 GAUGE STAINLESS STEEL, TYPE 316.

METAL CLEAT: 20 GAUGE STAINLESS STEEL, TYPE 316.

METAL COUNTERFLASHING: 22 GAUGE STAINLESS STEEL, TYPE 316.

METAL EDGE: 22 GAUGE STAINLESS STEEL, TYPE 316.

ONE-PIECE TRANSITION FLASHING: 22 GAUGE STAINLESS STEEL, TYPE 304.
TERMINATION BAR: 1/8" THICK X 1" WIDE STAINLESS STEEL.

ROOF ACCESSORIES: SPECIFICATION SECTION 077200
ROOF HATCH: BASIS OF DESIGN: BILCO TYPE "S-50TB" ENHANCED
PERFORMANCE ALUMINUM ROOF HATCH WITH INSULATION CURB

METAL SKIRT FLASHING: 22 GAUGE STAINLESS STEEL, TYPE 316. METAL TRIM FLASHING: 22 GAUGE STAINLESS STEEL, TYPE 316.

JOINT SEALANTS SPECIFICATION SECTION 07920
BACKER ROD: CLOSED-CELL BACKER ROD.
BUTYL SEALANT: ONE-PART GUN GRADE, BUTYL-RUBBER BASED

JOINT SEALANT, ASTM C 1311.

SILICONE SEALANT: SINGLE-COMPONENT, NONSAG,
NEUTRAL-CURING SILICONE JOINT SEALANT: ASTM C 920, TYPE S,
GRADE NS, CLASS 100/50, FOR USE NT. APPLIED TO PRIMED

SEALANT TAPE: 1" WIDE BUTYL SEALANT TAPE, APPLIED BETWEEN METAL SURFACES AND UNDERLYING SURFACE.

STRUCTURAL SEALANT: SINGLE-COMPONENT, MOISTURE CURING, GUN GRADE ADHESIVE, "M-1" MANUFACTURED BY CHEM LINK

ENGINEERED SYSTEMS.

URETHANE SEALANT: SINGLE-COMPONENT, NONSAG,
POLYURETHANE JOINT SEALANT: ASTM C 920, TYPE S, GRADE NS,
CLASS 100/50, FOR USE NT. APPLIED TO PRIMED SURFACES.

SURFACES.

CONSTRUCTION DOCUMENTS

ORANGE COUNTY GOVERNMENT
SOLID WASTE ADMINISTRATION BUILDING
ORLANDO, FLORIDA

PROJECT NUMBER: 18-093

ROOFING REPLACEMENT PROJECT

JAY AMMON ARCHITECT, INC.

3246 LAKEVIEW OAKS DRIVE * LONGWOOD, FLORIDA 32779

(407) 333-1977 * FAX: (407) 333-4686 * E MAIL: JAY@JAYAMMON.COM

REVISIONS

NUMBER TYPE DATE:

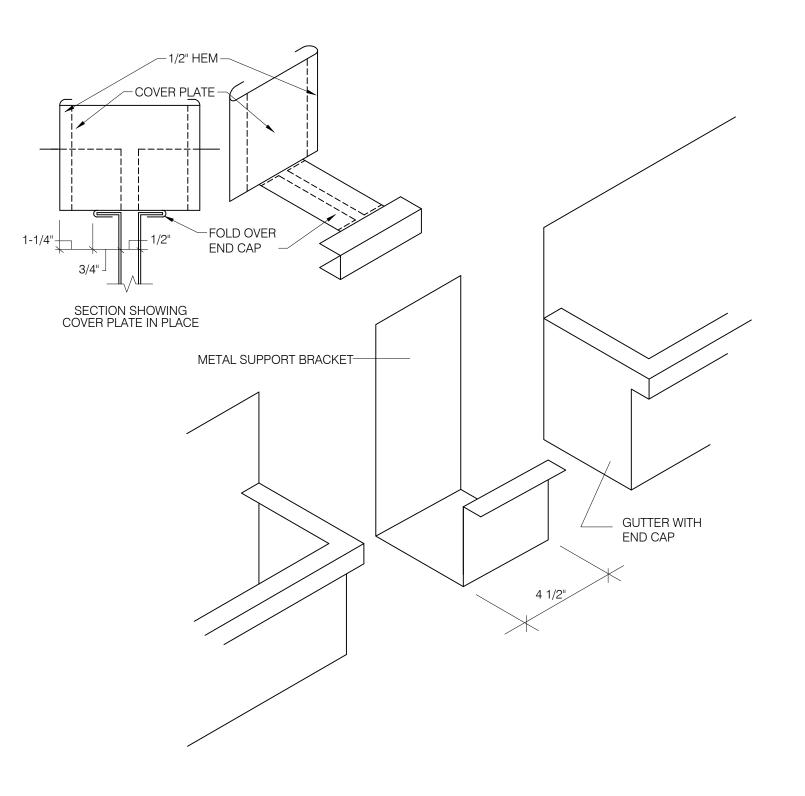
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 NHR
 PROJECT NUMBER:
 18-093

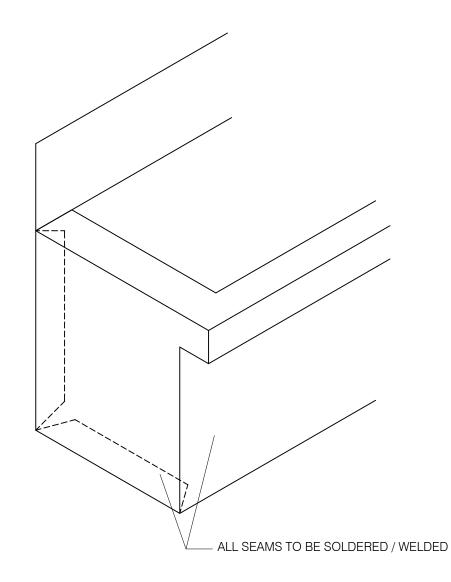
 APPROVED BY:
 JPA
 PHASE:
 CONSTRUCTION DOCS

ROOF REPLACEMENT

DETAILS Δ Δ

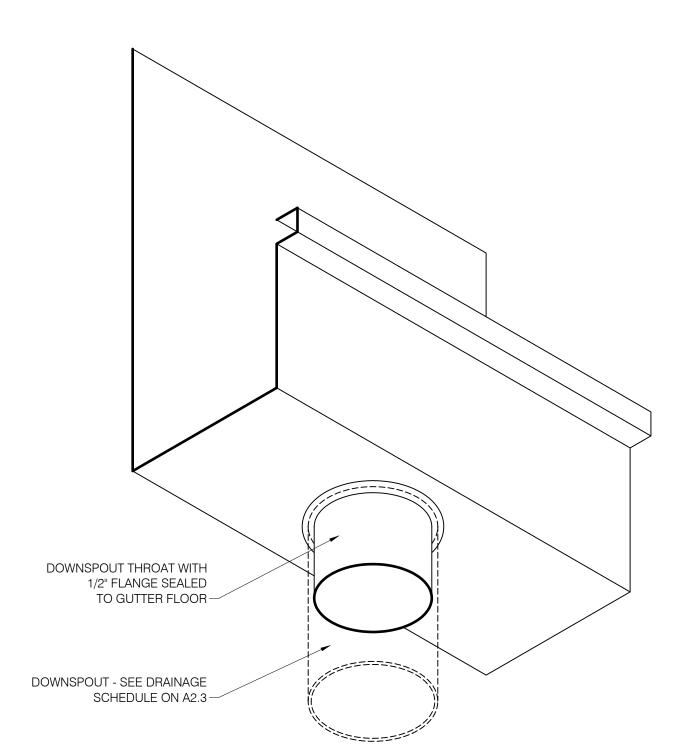
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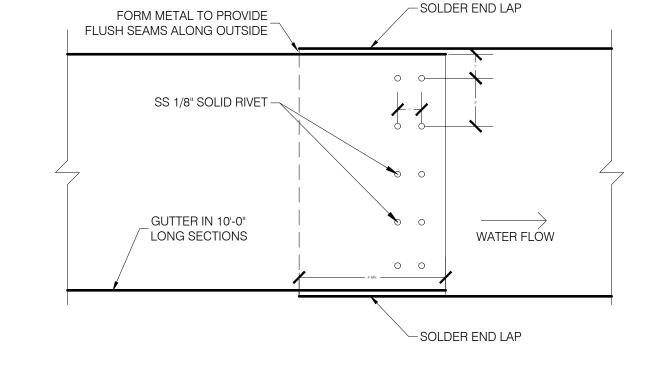




GUTTER EXPANSION JOINT DETAL

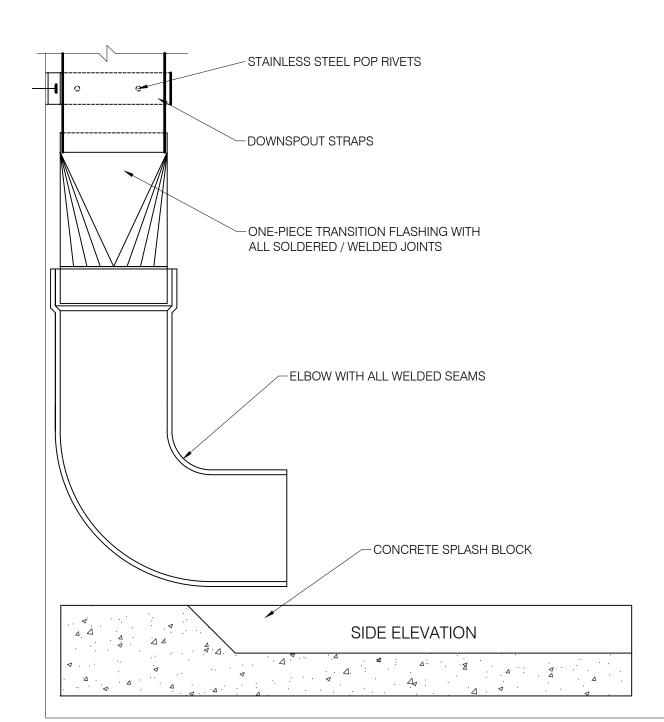




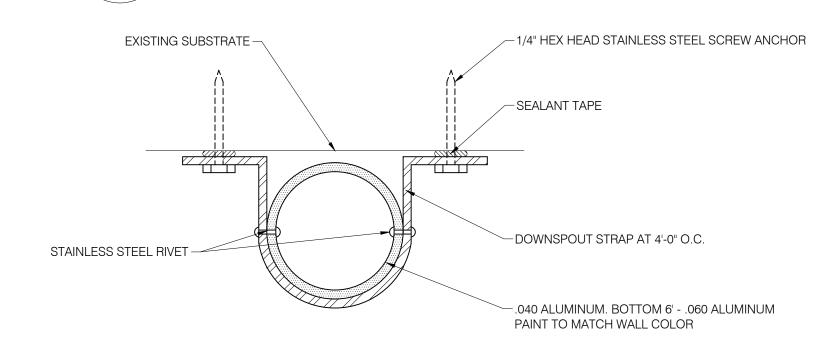


GUTTER DOWNSPOUT CONNECTION A-3.5 SCALE: NTS

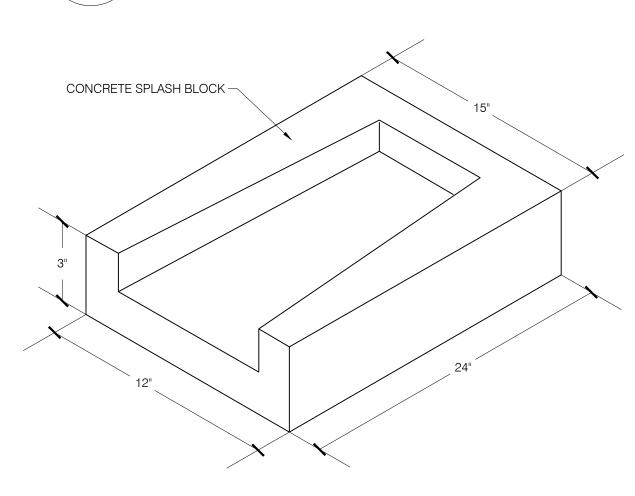




DOWNSPOUT DISCHARGE DETAIL SCALE: NTS



DOWNSPOUT STRAP CONNECTION SCALE: NTS



CONCRTET SPALSH A-3.5 SCALE: NTS

MATERIAL COMPONENT SCHEDULE

ROUGH CARPENTRY SPECIFICATION SECTION 061000 FRT WOOD BLOCKING: FIRE RETARDANT LUMBER.

MODIFIED BITUMEN ROOFING SPECIFICATION

SECTION 075216 BASE FLASHING - INNER PLY: SBS SMOOTH MODIFIED BITUMEN,

ASTM D 6163, TYPE 1, TORCHED APPLIED OVER SUBSTRATE BELOW. MINIMUM 90 MILS THICK. BASE FLASHING - OUTER PLY: SBS GRANULE SURFACED

MODIFIED BITUMEN, ASTM D 6163, TYPE 2, TORCHED APPLIED OVER MEMBRANE BELOW. MIMIMUM 135 MILS THICK. CANT STRIP: FIBERBOARD CANT FULLY ADHERED TO SUBSTRATES IN COLD MODIFIED BITUMINOUS ADHESIVE.

COVER BOARD: 1/2" FIBER-REINFORCED ROOF BOARD, ASTM C 1278. BASIS OF DESIGN: "SECUROCK GYPSUM-FIBER ROOF BOARD" MANUFACTURED BY USG. LIQUID-APPLIED REINFORCED MEMBRANE: THREE COAT LIQUID APPLIED REINFORCED FLASHING SYSTEM WITH FIBERGLASS

MODIFIED BITUMEN BASE PLY: SBS SMOOTH MODIFIED BITUMEN, ASTM D 6163, TYPE 1, TORCH APPLIED OVER SUBSTRATE BELOW. MINIMUM 90 MILS THICK. MODIFIED BITUMEN INNER PLY: SBS SMOOTH MODIFIED

FABRIC APPROVED BY ROOFING MEMBRANE MANUFACTURER.

BITUMEN, ASTM D 6163, TYPE 1, TORCHED APPLIED OVER SUBSTRATE BELOW. MINIMUM 90 MILS THICK. MODIFIED BITUMEN CAP SHEET: SBS GRANULE SURFACED MODIFIED BITUMEN, ASTM D 6163, TYPE 1, TORCHED APPLIED OVER

MEMBRANE BELOW. MINIMUM 135 MILS THICK. RIGID INSULATION: POLYISOCYANURATE INSULATION, ASTM C 1289 TYPE 2, MIN. 20 PSI, FLAT INSULATION BOARDS. INSTALL TAPERED INSULATION OVER FLAT INSULATION WHERE DESIGNATED AND AS REQUIRED TO ACHIEVE A 1/4 INCH PER FOOT POSITIVE SLOPE WITH NO PONDING AFTER 24 HOUR DRYING TIME. TAPERED INSULATION SHALL BE FABRICATED AT ZERO INCH THICKNESS AT THIN EDGE. ROOF TRAFFIC PADS: SBS MODIFIED BITUMEN WITH GRANULATED SURFACE, ASTM D 6163, TYPE 2, WITH COLOR CONTRAST TO THE CAP

PRIMED CAP SHEET. MIN. 200 MILS THICK. SELF-ADHERED UNDERLAYMENT: GCP APPLIED TECHNOLORGIES GRACE ULTRA, HIGH TEMPERATURE, MIN. 280 DEGREES F., .030" THCIK, SELF-ADHERED BUTYL BASED MEMBRANE ASTM D1204, ADHERED OVER PRIMED SUBSTRATE BELOW.

SHEET. COLOR TO BE SELECTED BY OWNER. TORCH APPLIED OVER

FLASHING AND SHEET METAL SPECIFICATION

SECTION 076200 BENT METAL PLATE: 16 GAUGE, GALVANIZED STEEL G90. **DOWNSPOUT:** .040 ALUMINUM. .060 ALUMINUM AT BOTTOM 6', PRIMED AND PAINTED TO MATCH EXISTING DOWNSPOUT STRAPS: 22 GAUGE STAINLESS STEEL, TYPE 304 **EXPANSION JOINT COVER:** 22 GAUGE STAINLESS STEEL, TYPE

EXPANSION JOINT CLEAT: 20 GAUGE STAINLESS STEEL, TYPE 316. **GUTTER:** 16 GAUGE STAINLESS STEEL, TYPE 316 GUTTER BRACKET: 1/8 X 1" BENT STAINLESS STEEL, TYPE 316

GUTTER STRAP: 22 GAUGE STAINLESS STEEL, TYPE 304 METAL CLEAT: 20 GAUGE STAINLESS STEEL, TYPE 316. METAL COUNTERFLASHING: 22 GAUGE STAINLESS STEEL, TYPE

METAL EDGE: 22 GAUGE STAINLESS STEEL, TYPE 316. METAL SKIRT FLASHING: 22 GAUGE STAINLESS STEEL, TYPE 316. METAL TRIM FLASHING: 22 GAUGE STAINLESS STEEL, TYPE 316. ONE-PIECE TRANSITION FLASHING: 22 GAUGE STAINLESS STEEL, TYPE 304.

TERMINATION BAR: 1/8" THICK X 1" WIDE STAINLESS STEEL.

ROOF ACCESSORIES: SPECIFICATION SECTION 077200 ROOF HATCH: BASIS OF DESIGN: BILCO TYPE "S-50TB" ENHANCED PERFORMANCE ALUMINUM ROOF HATCH WITH INSULATION CURB

JOINT SEALANTS SPECIFICATION SECTION 07920 BACKER ROD: CLOSED-CELL BACKER ROD.

LINER.

BUTYL SEALANT: ONE-PART GUN GRADE, BUTYL-RUBBER BASED JOINT SEALANT, ASTM C 1311. SILICONE SEALANT: SINGLE-COMPONENT, NONSAG, NEUTRAL-CURING SILICONE JOINT SEALANT: ASTM C 920, TYPE S,

GRADE NS, CLASS 100/50, FOR USE NT. APPLIED TO PRIMED SURFACES. **SEALANT TAPE:** 1" WIDE BUTYL SEALANT TAPE, APPLIED BETWEEN METAL SURFACES AND UNDERLYING SURFACE.

STRUCTURAL SEALANT: SINGLE-COMPONENT, MOISTURE CURING, GUN GRADE ADHESIVE, "M-1" MANUFACTURED BY CHEM LINK ENGINEERED SYSTEMS.

URETHANE SEALANT: SINGLE-COMPONENT, NONSAG, POLYURETHANE JOINT SEALANT: ASTM C 920, TYPE S, GRADE NS, CLASS 100/50, FOR USE NT. APPLIED TO PRIMED SURFACES.

CONSTRUCTION DOCUMENTS

ORANGE COUNTY GOVERNMENT SOLID WASTE ADMINISTRATION BUILDING ORLANDO, FLORIDA

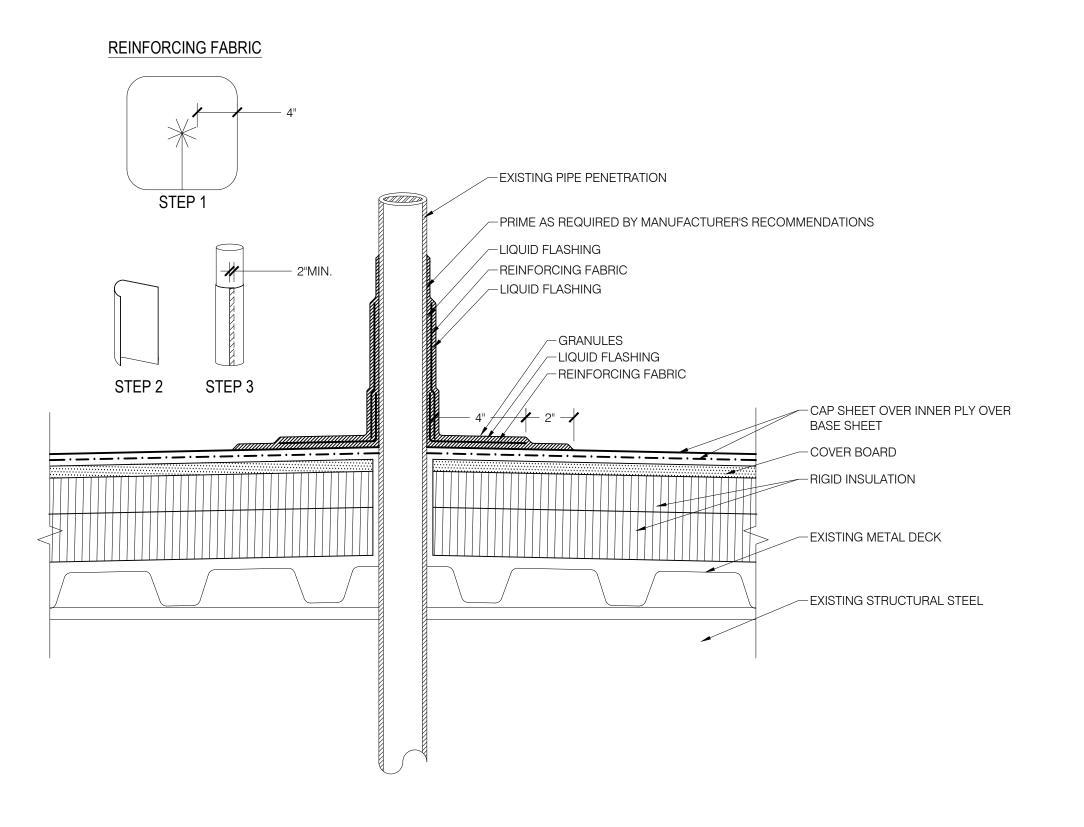
PROJECT NUMBER: 18-093

ROOFING REPLACEMENT PROJECT

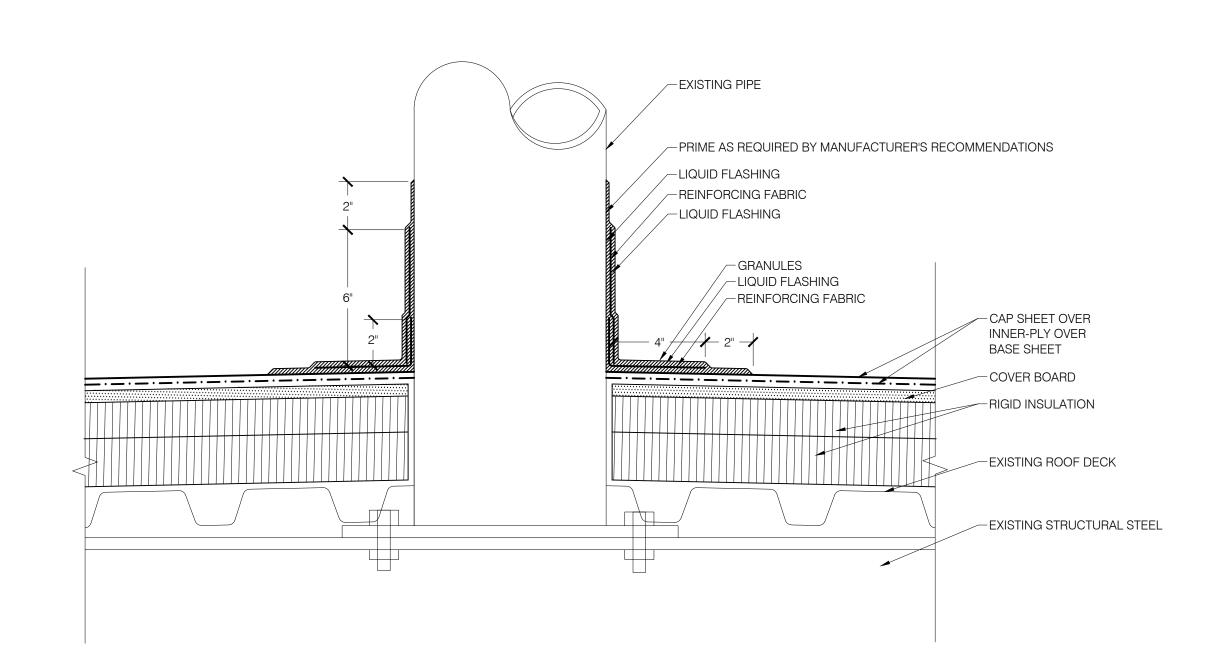
JAY AMMON ARCHITECT, INC. 3246 LAKEVIEW OAKS DRIVE LONGWOOD, FLORIDA 32779 (407) 333-1977 **PAX:** (407) 333-4686 **PAX:** E MAIL: JAY@JAYAMMON.COM

REVISIONS PROJECT NUMBER: 18-093 DRAWN BY: NHR PHASE: CONSTRUCTION DOCS

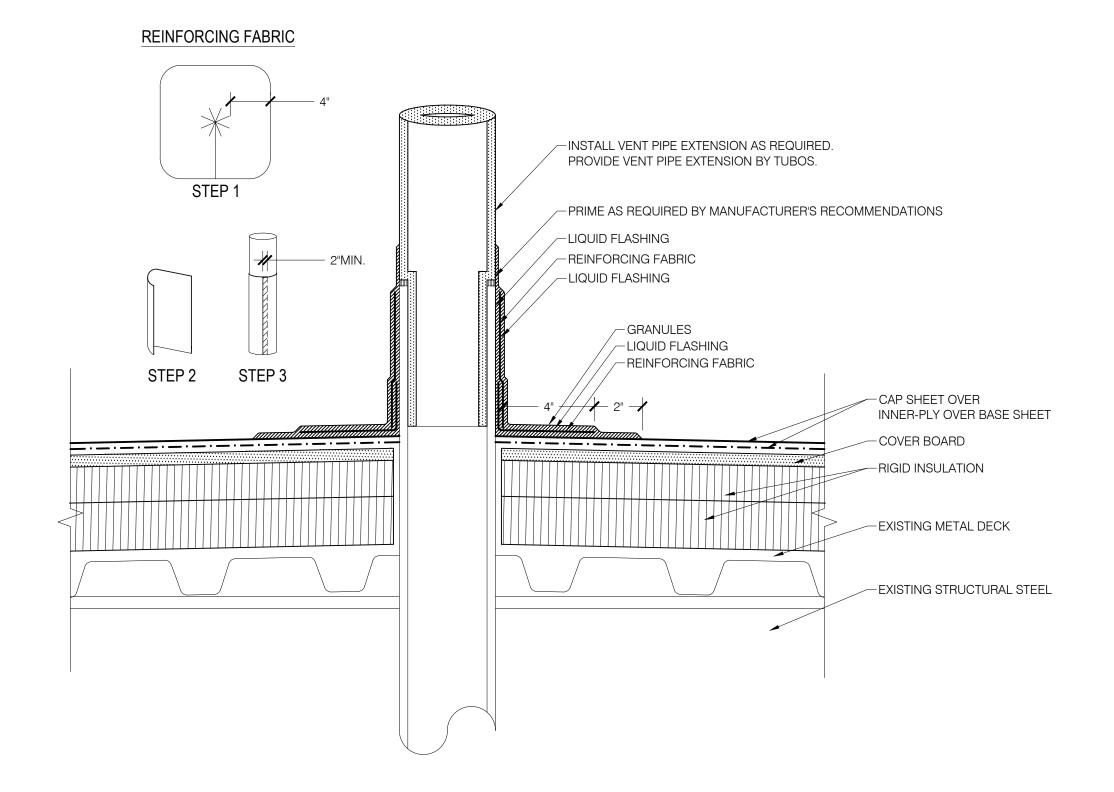
DATE: MAY 8, 2019 ROOF REPLACEMENT



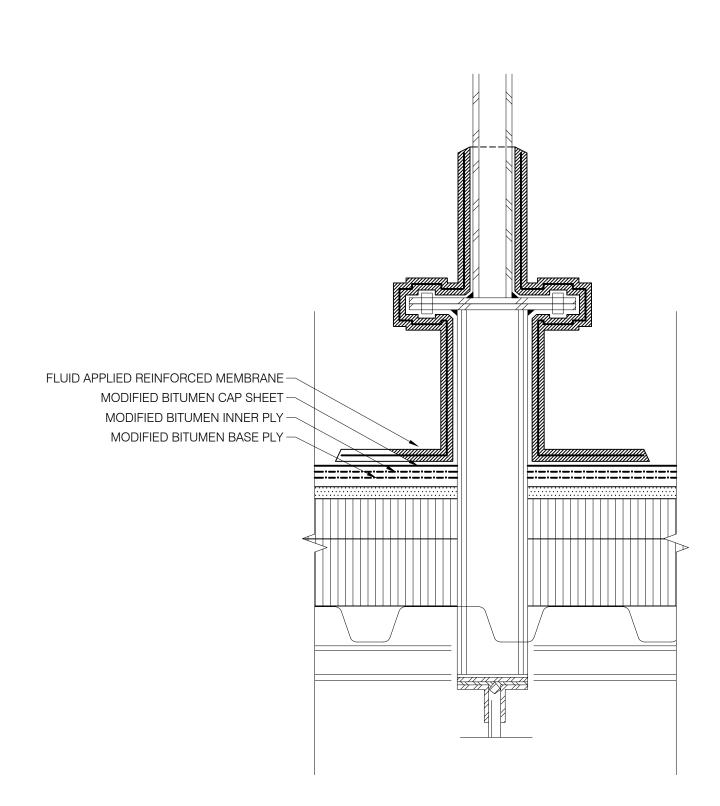












DIAGONAL BRACING

MATERIAL COMPONENT SCHEDULE

ROUGH CARPENTRY SPECIFICATION SECTION 061000 FRT WOOD BLOCKING: FIRE RETARDANT LUMBER.

MODIFIED BITUMEN ROOFING SPECIFICATION

SECTION 075216

BASE FLASHING - INNER PLY: SBS SMOOTH MODIFIED BITUMEN, ASTM D 6163, TYPE 1, TORCHED APPLIED OVER SUBSTRATE BELOW.

MINIMUM 90 MILS THICK. BASE FLASHING - OUTER PLY: SBS GRANULE SURFACED MODIFIED BITUMEN, ASTM D 6163, TYPE 2, TORCHED APPLIED OVER

MEMBRANE BELOW. MIMIMUM 135 MILS THICK. CANT STRIP: FIBERBOARD CANT FULLY ADHERED TO SUBSTRATES IN COLD MODIFIED BITUMINOUS ADHESIVE.

COVER BOARD: 1/2" FIBER-REINFORCED ROOF BOARD, ASTM C 1278. BASIS OF DESIGN: "SECUROCK GYPSUM-FIBER ROOF BOARD" MANUFACTURED BY USG. LIQUID-APPLIED REINFORCED MEMBRANE: THREE COAT LIQUID APPLIED REINFORCED FLASHING SYSTEM WITH FIBERGLASS

FABRIC APPROVED BY ROOFING MEMBRANE MANUFACTURER. MODIFIED BITUMEN BASE PLY: SBS SMOOTH MODIFIED BITUMEN, ASTM D 6163, TYPE 1, TORCH APPLIED OVER SUBSTRATE BELOW. MINIMUM 90 MILS THICK. MODIFIED BITUMEN INNER PLY: SBS SMOOTH MODIFIED

BITUMEN, ASTM D 6163, TYPE 1, TORCHED APPLIED OVER SUBSTRATE BELOW. MINIMUM 90 MILS THICK. MODIFIED BITUMEN CAP SHEET: SBS GRANULE SURFACED

MODIFIED BITUMEN, ASTM D 6163, TYPE 1, TORCHED APPLIED OVER

MEMBRANE BELOW. MINIMUM 135 MILS THICK.

RIGID INSULATION: POLYISOCYANURATE INSULATION, ASTM C 1289 TYPE 2, MIN. 20 PSI, FLAT INSULATION BOARDS. INSTALL TAPERED INSULATION OVER FLAT INSULATION WHERE DESIGNATED AND AS REQUIRED TO ACHIEVE A 1/4 INCH PER FOOT POSITIVE SLOPE WITH NO PONDING AFTER 24 HOUR DRYING TIME. TAPERED INSULATION SHALL BE FABRICATED AT ZERO INCH THICKNESS AT THIN EDGE. ROOF TRAFFIC PADS: SBS MODIFIED BITUMEN WITH GRANULATED SURFACE, ASTM D 6163, TYPE 2, WITH COLOR CONTRAST TO THE CAP SHEET. COLOR TO BE SELECTED BY OWNER. TORCH APPLIED OVER

PRIMED CAP SHEET. MIN. 200 MILS THICK. SELF-ADHERED UNDERLAYMENT: GCP APPLIED TECHNOLORGIES GRACE ULTRA, HIGH TEMPERATURE, MIN. 280 DEGREES F., .030" THCIK, SELF-ADHERED BUTYL BASED MEMBRANE ASTM D1204, ADHERED OVER PRIMED SUBSTRATE BELOW.

FLASHING AND SHEET METAL SPECIFICATION SECTION 076200

BENT METAL PLATE: 16 GAUGE, GALVANIZED STEEL G90. **DOWNSPOUT:** .040 ALUMINUM. .060 ALUMINUM AT BOTTOM 6', PRIMED AND PAINTED TO MATCH EXISTING DOWNSPOUT STRAPS: 22 GAUGE STAINLESS STEEL, TYPE 304 **EXPANSION JOINT COVER:** 22 GAUGE STAINLESS STEEL, TYPE

EXPANSION JOINT CLEAT: 20 GAUGE STAINLESS STEEL, TYPE 316. **GUTTER:** 16 GAUGE STAINLESS STEEL, TYPE 316 GUTTER BRACKET: 1 X 1 BENT STAINLESS STEEL, TYPE 316 **GUTTER STRAP:** 22 GAUGE STAINLESS STEEL, TYPE 304 METAL CLEAT: 20 GAUGE STAINLESS STEEL, TYPE 316.

METAL COUNTERFLASHING: 22 GAUGE STAINLESS STEEL, TYPE METAL EDGE: 22 GAUGE STAINLESS STEEL, TYPE 316. METAL SKIRT FLASHING: 22 GAUGE STAINLESS STEEL, TYPE 316. METAL TRIM FLASHING: 22 GAUGE STAINLESS STEEL, TYPE 316.

ONE-PIECE TRANSITION FLASHING: 22 GAUGE STAINLESS STEEL, TYPE 304. TERMINATION BAR: 1/8" THICK X 1" WIDE STAINLESS STEEL.

ROOF ACCESSORIES: SPECIFICATION SECTION 077200 **ROOF HATCH:** BASIS OF DESIGN: BILCO TYPE "S-50TB" ENHANCED PERFORMANCE ALUMINUM ROOF HATCH WITH INSULATION CURB LINER.

JOINT SEALANTS SPECIFICATION SECTION 07920 BACKER ROD: CLOSED-CELL BACKER ROD. BUTYL SEALANT: ONE-PART GUN GRADE, BUTYL-RUBBER BASED JOINT SEALANT, ASTM C 1311.

SILICONE SEALANT: SINGLE-COMPONENT, NONSAG, NEUTRAL-CURING SILICONE JOINT SEALANT: ASTM C 920, TYPE S. GRADE NS, CLASS 100/50, FOR USE NT. APPLIED TO PRIMED SURFACES.

SEALANT TAPE: 1" WIDE BUTYL SEALANT TAPE, APPLIED BETWEEN METAL SURFACES AND UNDERLYING SURFACE. STRUCTURAL SEALANT: SINGLE-COMPONENT, MOISTURE CURING, GUN GRADE ADHESIVE, "M-1" MANUFACTURED BY CHEM LINK ENGINEERED SYSTEMS.

URETHANE SEALANT: SINGLE-COMPONENT, NONSAG, POLYURETHANE JOINT SEALANT: ASTM C 920, TYPE S, GRADE NS, CLASS 100/50, FOR USE NT. APPLIED TO PRIMED SURFACES.

> CONSTRUCTION DOCUMENTS ORANGE COUNTY GOVERNMENT

SOLID WASTE ADMINISTRATION BUILDING ORLANDO, FLORIDA

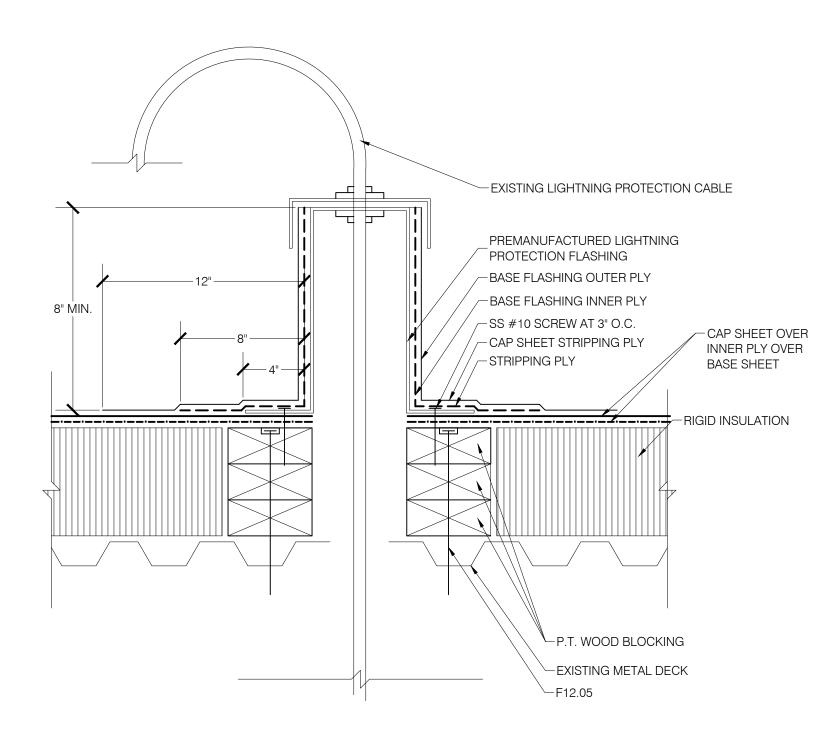
PROJECT NUMBER: 18-093

ROOFING REPLACEMENT PROJECT

JAY AMMON ARCHITECT, INC. 3246 LAKEVIEW OAKS DRIVE LONGWOOD, FLORIDA 32779 (407) 333-1977 ***** FAX: (407) 333-4686 ***** E MAIL: JAY@JAYAMMON.COM REVISIONS

DRAWN BY: NHR PROJECT NUMBER: 18-093 PHASE: CONSTRUCTION DOCS ENGINEER: DATE: MAY 8, 2019

ROOF REPLACEMENT

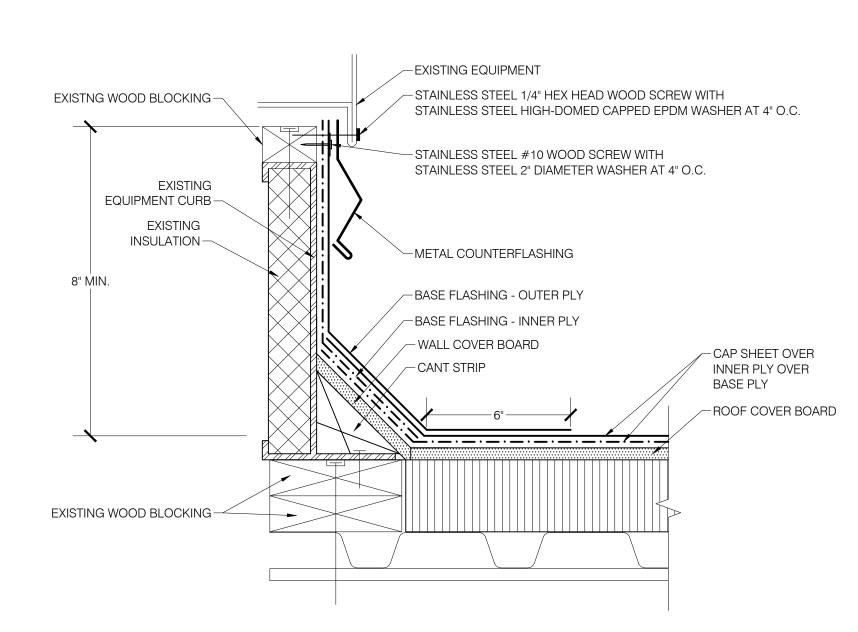




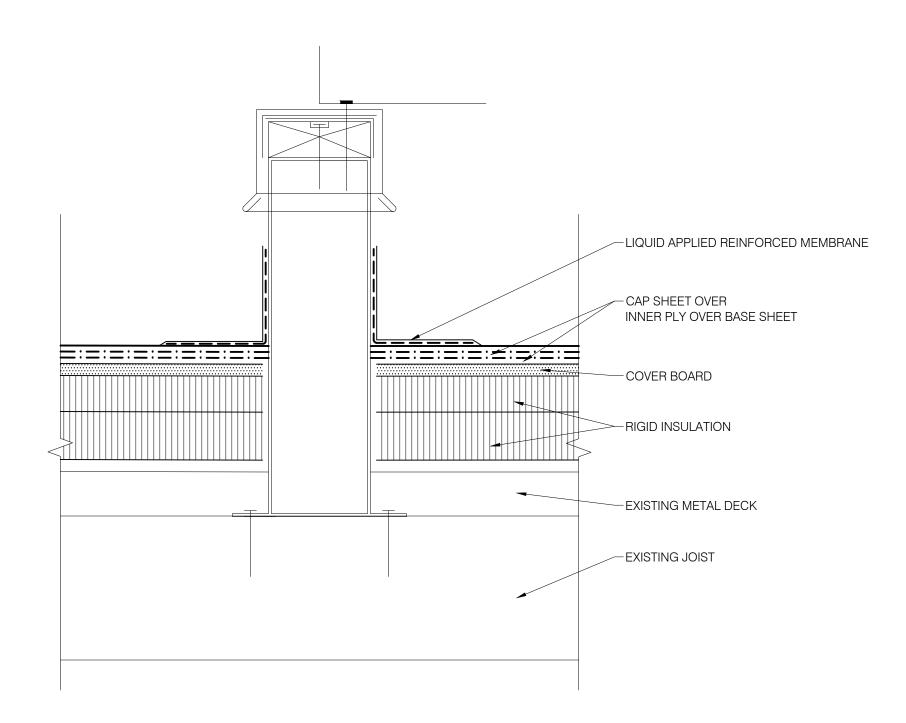
NOTES:

1. SOLDER ALL VERTICAL OUTSIDE CORNER END JOINTS.

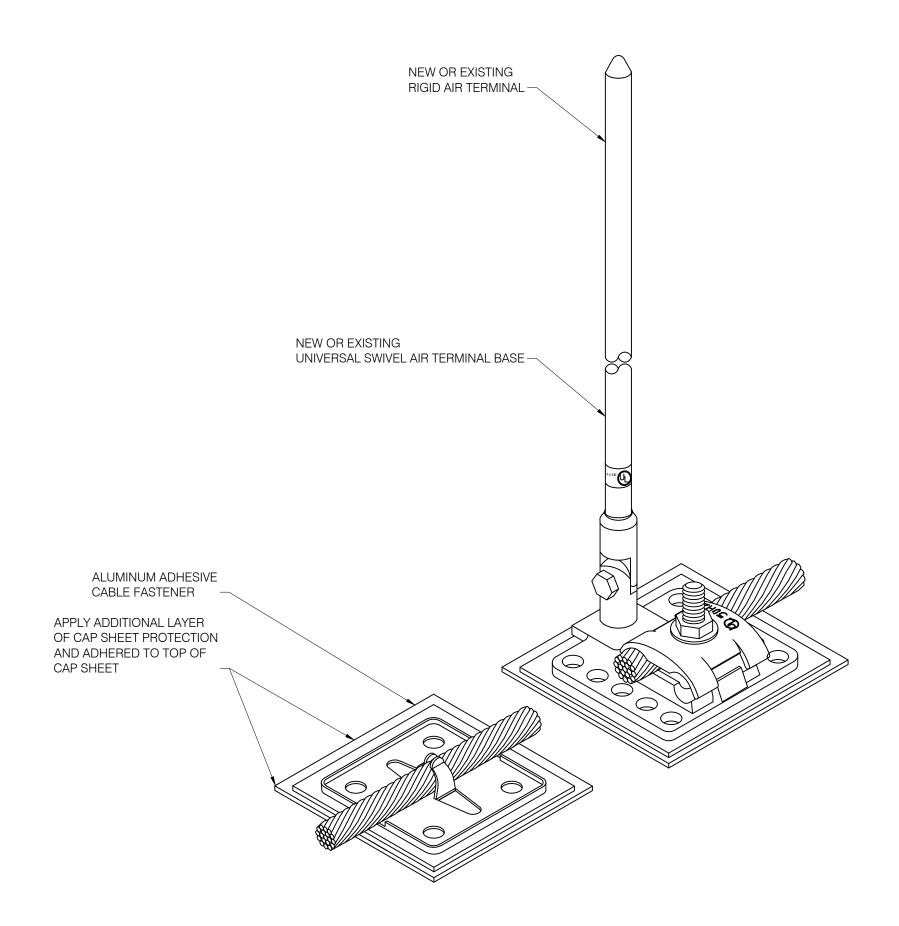
2. ALL MECHANICAL UNITS REQUIRE TIE-DOWNS UNLESS NOTED OTHERWISE.







B EQUIPMENT STAND FLASHING
A-3.7 SCALE: NTS



D LIGHTNING PROTECTION BASE DETAIL
A-3.7 SCALE: NTS

MATERIAL COMPONENT SCHEDULE

ROUGH CARPENTRY SPECIFICATION SECTION 061000 FRT WOOD BLOCKING: FIRE RETARDANT LUMBER.

MODIFIED BITUMEN ROOFING SPECIFICATION
SECTION 075216

SECTION 075216

BASE FLASHING - INNER PLY: SBS SMOOTH MODIFIED

BASE FLASHING - INNER PLY: SBS SMOOTH MODIFIED BITUMEN, ASTM D 6163, TYPE 1, TORCHED APPLIED OVER SUBSTRATE BELOW. MINIMUM 90 MILS THICK.

BASE FLASHING - OUTER PLY: SBS GRANULE SURFACED MODIFIED BITUMEN, ASTM D 6163, TYPE 2, TORCHED APPLIED OVER MEMBRANE BELOW. MIMIMUM 135 MILS THICK.

CANT STRIP: FIBERBOARD CANT FULLY ADHERED TO SUBSTRATES IN

COLD MODIFIED BITUMINOUS ADHESIVE.

COVER BOARD: 1/2" FIBER-REINFORCED ROOF BOARD, ASTM C
1278. BASIS OF DESIGN: "SECUROCK GYPSUM-FIBER ROOF BOARD"
MANUFACTURED BY USG.

LIQUID-APPLIED REINFORCED MEMBRANE: THREE COAT

LIQUID APPLIED REINFORCED FLASHING SYSTEM WITH FIBERGLASS FABRIC APPROVED BY ROOFING MEMBRANE MANUFACTURER.

MODIFIED BITUMEN BASE PLY: SBS SMOOTH MODIFIED BITUMEN, ASTM D 6163, TYPE 1, TORCH APPLIED OVER SUBSTRATE BELOW. MINIMUM 90 MILS THICK.

MODIFIED BITUMEN INNER PLY: SBS SMOOTH MODIFIED BITUMEN, ASTM D 6163, TYPE 1, TORCHED APPLIED OVER SUBSTRATE BELOW. MINIMUM 90 MILS THICK.

MODIFIED BITUMEN CAP SHEET: SBS GRANULE SURFACED MODIFIED BITUMEN, ASTM D 6163, TYPE 1, TORCHED APPLIED OVER MEMBRANE BELOW. MINIMUM 135 MILS THICK.

RIGID INSULATION: POLYISOCYANURATE INSULATION, ASTM C 1289 TYPE 2, MIN. 20 PSI, FLAT INSULATION BOARDS. INSTALL TAPERED INSULATION OVER FLAT INSULATION WHERE DESIGNATED AND AS REQUIRED TO ACHIEVE A 1/4 INCH PER FOOT POSITIVE SLOPE WITH NO PONDING AFTER 24 HOUR DRYING TIME. TAPERED INSULATION SHALL BE FABRICATED AT ZERO INCH THICKNESS AT THIN EDGE.

ROOF TRAFFIC PADS: SBS MODIFIED BITUMEN WITH GRANULATED SURFACE, ASTM D 6163, TYPE 2, WITH COLOR CONTRAST TO THE CAP SHEET. COLOR TO BE SELECTED BY OWNER. TORCH APPLIED OVER PRIMED CAP SHEET. MIN. 200 MILS THICK.

SELF-ADHERED UNDERLAYMENT: GCP APPLIED
TECHNOLORGIES GRACE ULTRA, HIGH TEMPERATURE, MIN. 280
DEGREES F., .030" THCIK, SELF-ADHERED BUTYL BASED MEMBRANE
ASTM D1204, ADHERED OVER PRIMED SUBSTRATE BELOW.

FLASHING AND SHEET METAL SPECIFICATION

SECTION 076200

BENT METAL PLATE: 16 GAUGE, GALVANIZED STEEL G90.

DOWNSPOUT: .040 ALUMINUM. .060 ALUMINUM AT BOTTOM 6',
PRIMED AND PAINTED TO MATCH EXISTING

DOWNSPOUT STRAPS: 22 GAUGE STAINLESS STEEL, TYPE 304

EXPANSION JOINT COVER: 22 GAUGE STAINLESS STEEL, TYPE

EXPANSION JOINT CLEAT: 20 GAUGE STAINLESS STEEL, TYPE 316.

GUTTER: 16 GAUGE STAINLESS STEEL, TYPE 316

GUTTER BRACKET: 1/8 X 1" BENT STAINLESS STEEL, TYPE 316

GUTTER STRAP: 22 GAUGE STAINLESS STEEL, TYPE 304

METAL CLEAT: 20 GAUGE STAINLESS STEEL, TYPE 316

METAL CLEAT: 20 GAUGE STAINLESS STEEL, TYPE 304
METAL CLEAT: 20 GAUGE STAINLESS STEEL, TYPE 316.
METAL COUNTERFLASHING: 22 GAUGE STAINLESS STEEL, TYPE 316.
METAL EDGE: 22 GAUGE STAINLESS STEEL, TYPE 316.

METAL SKIRT FLASHING: 22 GAUGE STAINLESS STEEL, TYPE 316.

METAL TRIM FLASHING: 22 GAUGE STAINLESS STEEL, TYPE 316.

ONE-PIECE TRANSITION FLASHING: 22 GAUGE STAINLESS
STEEL, TYPE 304.

TERMINATION BAR: 1/8" THICK X 1" WIDE STAINLESS STEEL.

ROOF ACCESSORIES: SPECIFICATION SECTION 077200
ROOF HATCH: BASIS OF DESIGN: BILCO TYPE "S-50TB" ENHANCED
PERFORMANCE ALUMINUM ROOF HATCH WITH INSULATION CURB

JOINT SEALANTS SPECIFICATION SECTION 07920 BACKER ROD: CLOSED-CELL BACKER ROD.

LINER.

BUTYL SEALANT: ONE-PART GUN GRADE, BUTYL-RUBBER BASED JOINT SEALANT, ASTM C 1311.

SILICONE SEALANT: SINGLE-COMPONENT, NONSAG, NEUTRAL-CURING SILICONE JOINT SEALANT: ASTM C 920, TYPE S,

GRADE NS, CLASS 100/50, FOR USE NT. APPLIED TO PRIMED SURFACES.

SEALANT TAPE: 1" WIDE BUTYL SEALANT TAPE, APPLIED BETWEEN METAL SURFACES AND UNDERLYING SURFACE.

STRUCTURAL SEALANT: SINGLE-COMPONENT, MOISTURE

CURING, GUN GRADE ADHESIVE, "M-1" MANUFACTURED BY CHEM LINK ENGINEERED SYSTEMS.

URETHANE SEALANT: SINGLE-COMPONENT, NONSAG, POLYURETHANE JOINT SEALANT: ASTM C 920, TYPE S, GRADE NS,

CLASS 100/50, FOR USE NT. APPLIED TO PRIMED SURFACES.

ORANGE COUNTY GOVERNMENT

SOLID WASTE ADMINISTRATION BUILDING ORLANDO, FLORIDA

ROOFING REPLACEMENT PROJECT

PROJECT NUMBER: 18-093

JAY AMMON ARCHITECT, INC.

3246 LAKEVIEW OAKS DRIVE • LONGWOOD, FLORIDA 32779

(407) 333-1977 • FAX: (407) 333-4686 • E MAIL: JAY@JAYAMMON.COM

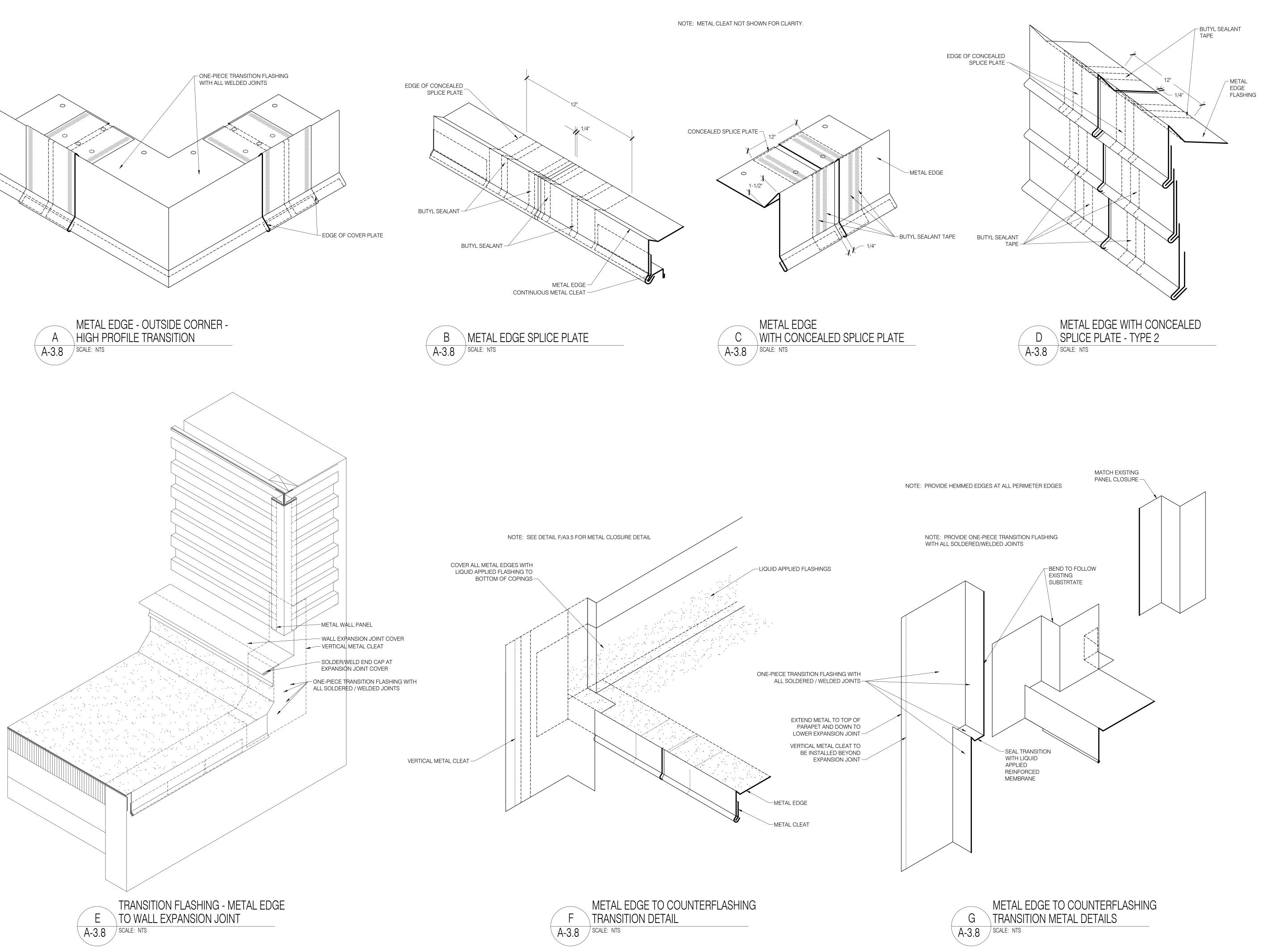
DRAWN BY: NHR PROJECT NUMBER: 18-093

APPROVED BY: JPA PHASE: CONSTRUCTION DOCS

FNGINFER: MAY 8, 2019

ROOF REPLACEMENT DETAILS

3"=1" SHEET A3.7



MATERIAL COMPONENT SCHEDULE

ROUGH CARPENTRY SPECIFICATION SECTION 061000 FRT WOOD BLOCKING: FIRE RETARDANT LUMBER.

MODIFIED BITUMEN ROOFING SPECIFICATION

SECTION 075216

MANUFACTURED BY USG.

BASE FLASHING - INNER PLY: SBS SMOOTH MODIFIED BITUMEN, ASTM D 6163, TYPE 1, TORCHED APPLIED OVER SUBSTRATE BELOW.

MINIMUM 90 MILS THICK. BASE FLASHING - OUTER PLY: SBS GRANULE SURFACED MODIFIED BITUMEN, ASTM D 6163, TYPE 2, TORCHED APPLIED OVER MEMBRANE BELOW. MIMIMUM 135 MILS THICK.

CANT STRIP: FIBERBOARD CANT FULLY ADHERED TO SUBSTRATES IN COLD MODIFIED BITUMINOUS ADHESIVE. COVER BOARD: 1/2" FIBER-REINFORCED ROOF BOARD, ASTM C 1278. BASIS OF DESIGN: "SECUROCK GYPSUM-FIBER ROOF BOARD"

LIQUID-APPLIED REINFORCED MEMBRANE: THREE COAT LIQUID APPLIED REINFORCED FLASHING SYSTEM WITH FIBERGLASS FABRIC APPROVED BY ROOFING MEMBRANE MANUFACTURER. MODIFIED BITUMEN BASE PLY: SBS SMOOTH MODIFIED BITUMEN, ASTM D 6163, TYPE 1, TORCH APPLIED OVER SUBSTRATE BELOW. MINIMUM 90 MILS THICK.

MODIFIED BITUMEN INNER PLY: SBS SMOOTH MODIFIED BITUMEN, ASTM D 6163, TYPE 1, TORCHED APPLIED OVER SUBSTRATE

BELOW. MINIMUM 90 MILS THICK. MODIFIED BITUMEN CAP SHEET: SBS GRANULE SURFACED MODIFIED BITUMEN, ASTM D 6163, TYPE 1, TORCHED APPLIED OVER MEMBRANE BELOW. MINIMUM 135 MILS THICK.

RIGID INSULATION: POLYISOCYANURATE INSULATION, ASTM C 1289 TYPE 2, MIN. 20 PSI, FLAT INSULATION BOARDS. INSTALL TAPERED INSULATION OVER FLAT INSULATION WHERE DESIGNATED AND AS REQUIRED TO ACHIEVE A 1/4 INCH PER FOOT POSITIVE SLOPE WITH NO PONDING AFTER 24 HOUR DRYING TIME. TAPERED INSULATION SHALL BE FABRICATED AT ZERO INCH THICKNESS AT THIN EDGE. ROOF TRAFFIC PADS: SBS MODIFIED BITUMEN WITH GRANULATED SURFACE, ASTM D 6163, TYPE 2, WITH COLOR CONTRAST TO THE CAP SHEET. COLOR TO BE SELECTED BY OWNER. TORCH APPLIED OVER PRIMED CAP SHEET. MIN. 200 MILS THICK.

SELF-ADHERED UNDERLAYMENT: GCP APPLIED TECHNOLORGIES GRACE ULTRA, HIGH TEMPERATURE, MIN. 280 DEGREES F., .030" THCIK, SELF-ADHERED BUTYL BASED MEMBRANE ASTM D1204, ADHERED OVER PRIMED SUBSTRATE BELOW.

FLASHING AND SHEET METAL SPECIFICATION SECTION 076200

BENT METAL PLATE: 16 GAUGE, GALVANIZED STEEL G90. **DOWNSPOUT:** .040 ALUMINUM. .060 ALUMINUM AT BOTTOM 6', PRIMED AND PAINTED TO MATCH EXISTING DOWNSPOUT STRAPS: 22 GAUGE STAINLESS STEEL, TYPE 304

EXPANSION JOINT COVER: 22 GAUGE STAINLESS STEEL, TYPE **EXPANSION JOINT CLEAT:** 20 GAUGE STAINLESS STEEL, TYPE 316. **GUTTER:** 16 GAUGE STAINLESS STEEL, TYPE 316 GUTTER BRACKET: 1 X 1 BENT STAINLESS STEEL, TYPE 316

GUTTER STRAP: 22 GAUGE STAINLESS STEEL, TYPE 304 METAL CLEAT: 20 GAUGE STAINLESS STEEL, TYPE 316. METAL COUNTERFLASHING: 22 GAUGE STAINLESS STEEL, TYPE

METAL SKIRT FLASHING: 22 GAUGE STAINLESS STEEL, TYPE 316.

METAL TRIM FLASHING: 22 GAUGE STAINLESS STEEL, TYPE 316. ONE-PIECE TRANSITION FLASHING: 22 GAUGE STAINLESS STEEL, TYPE 304. TERMINATION BAR: 1/8" THICK X 1" WIDE STAINLESS STEEL.

METAL EDGE: 22 GAUGE STAINLESS STEEL, TYPE 316.

ROOF ACCESSORIES: SPECIFICATION SECTION 077200 ROOF HATCH: BASIS OF DESIGN: BILCO TYPE "S-50TB" ENHANCED PERFORMANCE ALUMINUM ROOF HATCH WITH INSULATION CURB

JOINT SEALANTS SPECIFICATION SECTION 07920 BACKER ROD: CLOSED-CELL BACKER ROD. BUTYL SEALANT: ONE-PART GUN GRADE, BUTYL-RUBBER BASED

LINER.

JOINT SEALANT, ASTM C 1311. SILICONE SEALANT: SINGLE-COMPONENT, NONSAG, NEUTRAL-CURING SILICONE JOINT SEALANT: ASTM C 920, TYPE S, GRADE NS, CLASS 100/50, FOR USE NT. APPLIED TO PRIMED

SEALANT TAPE: 1" WIDE BUTYL SEALANT TAPE, APPLIED BETWEEN METAL SURFACES AND UNDERLYING SURFACE. STRUCTURAL SEALANT: SINGLE-COMPONENT, MOISTURE CURING, GUN GRADE ADHESIVE, "M-1" MANUFACTURED BY CHEM LINK

ENGINEERED SYSTEMS. URETHANE SEALANT: SINGLE-COMPONENT, NONSAG, POLYURETHANE JOINT SEALANT: ASTM C 920, TYPE S, GRADE NS, CLASS 100/50, FOR USE NT. APPLIED TO PRIMED SURFACES.

> CONSTRUCTION DOCUMENTS ORANGE COUNTY GOVERNMENT

SOLID WASTE ADMINISTRATION BUILDING ORLANDO, FLORIDA

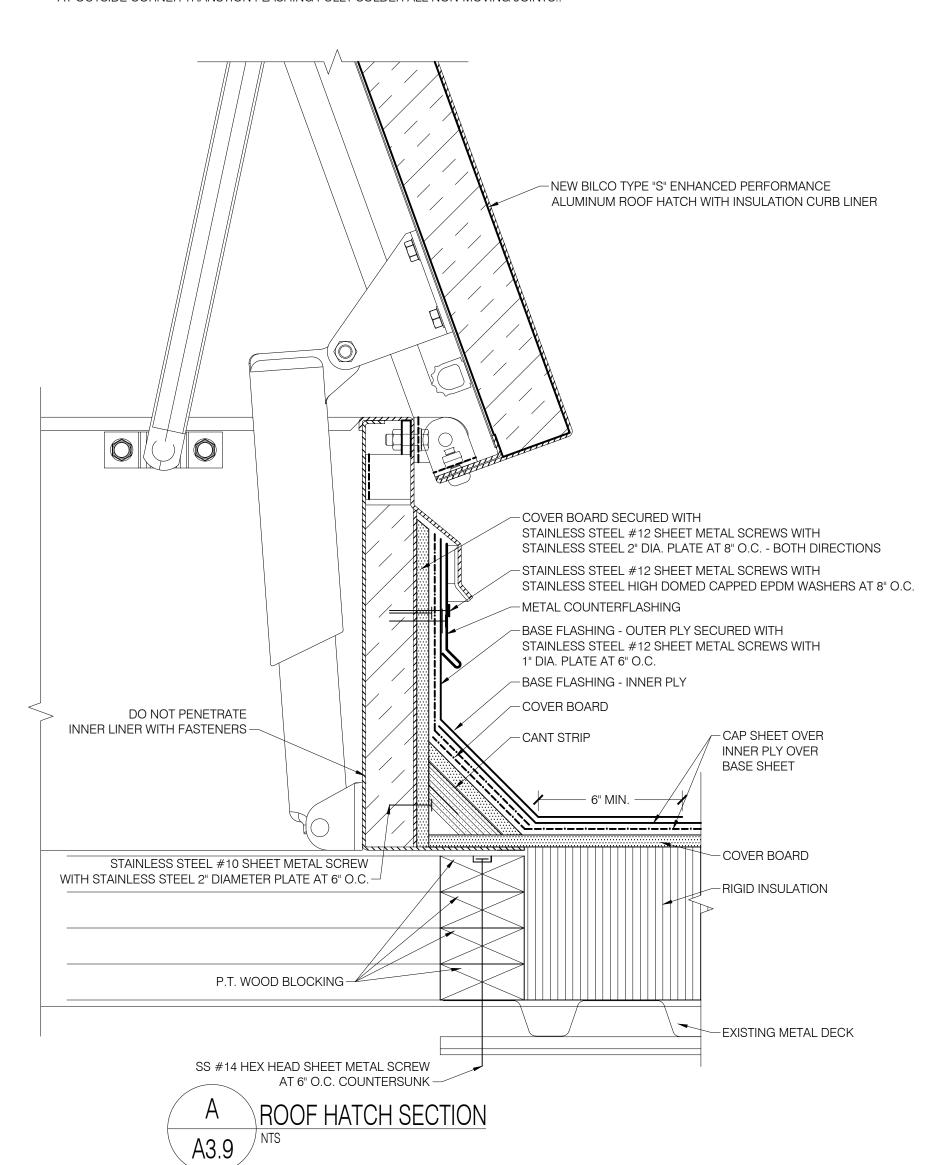
ROOFING REPLACEMENT PROJECT

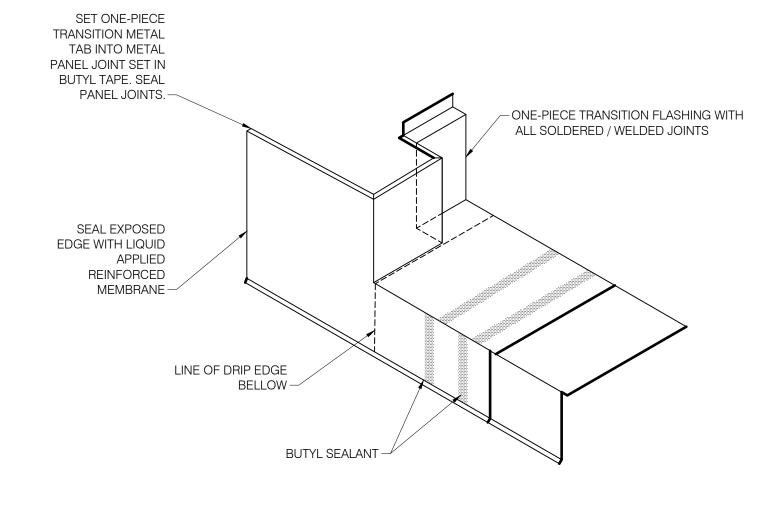
PROJECT NUMBER: 18-093

JAY AMMON ARCHITECT, INC. 3246 LAKEVIEW OAKS DRIVE LONGWOOD, FLORIDA 32779 (407) 333-1977 ***** FAX: (407) 333-4686 ***** E MAIL: JAY@JAYAMMON.COM

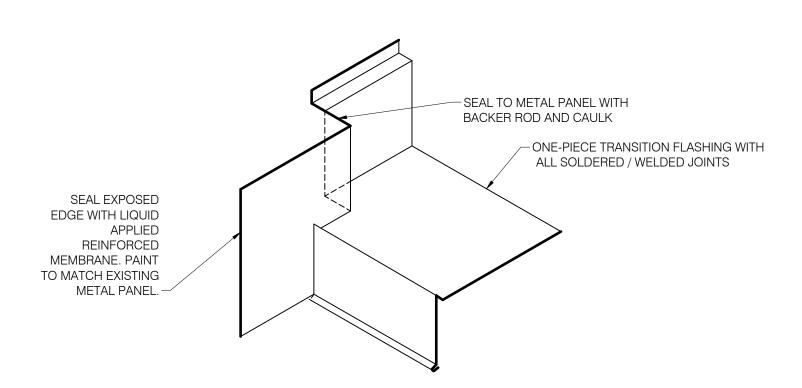
REVISIONS DRAWN BY: NHR PROJECT NUMBER: 18-093 PHASE: CONSTRUCTION DOCS

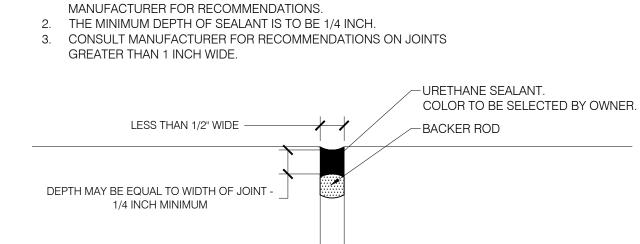
ROOF REPLACEMENT



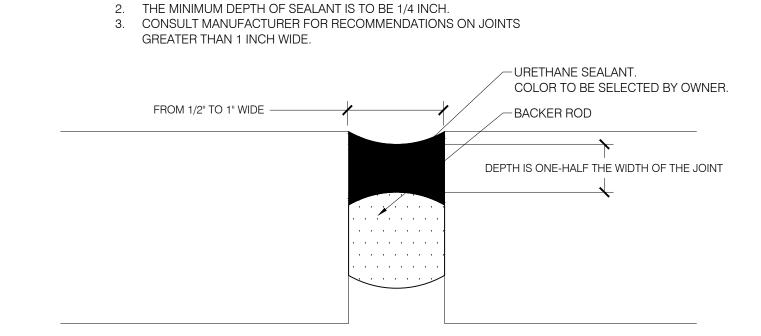


METAL EDGE TRANSITION B DETAILS AT COLUM 5 & 7





1. FOR ALL DYNAMIC JOINTS SMALLER THAN 1/4 INCH WIDE, CONSULT



1. FOR ALL DYNAMIC JOINTS SMALLER THAN 1/4 INCH WIDE, CONSULT

MANUFACTURER FOR RECOMMENDATIONS.

NOTES:

METAL EDGE TO WALL TRANSITION METAL DETAILS A-3.9 | SCALE: NTS

TYP. SEALANT JOINT FOR JOINTS LESS THAN 1/2 INCH WIDE A-3.9 SCALE: NTS

TYP. SEALANT JOINT FOR JOINTS 1/2 INCH TO 1 INCH WIDE A-3.9 SCALE: NTS

MATERIAL COMPONENT SCHEDULE

ROUGH CARPENTRY SPECIFICATION SECTION 061000 FRT WOOD BLOCKING: FIRE RETARDANT LUMBER.

MODIFIED BITUMEN ROOFING SPECIFICATION

SECTION 075216

BASE FLASHING - INNER PLY: SBS SMOOTH MODIFIED BITUMEN, ASTM D 6163, TYPE 1, TORCHED APPLIED OVER SUBSTRATE BELOW.

MINIMUM 90 MILS THICK. BASE FLASHING - OUTER PLY: SBS GRANULE SURFACED MODIFIED BITUMEN, ASTM D 6163, TYPE 2, TORCHED APPLIED OVER MEMBRANE BELOW. MIMIMUM 135 MILS THICK.

CANT STRIP: FIBERBOARD CANT FULLY ADHERED TO SUBSTRATES IN COLD MODIFIED BITUMINOUS ADHESIVE. COVER BOARD: 1/2" FIBER-REINFORCED ROOF BOARD, ASTM C 1278. BASIS OF DESIGN: "SECUROCK GYPSUM-FIBER ROOF BOARD" MANUFACTURED BY USG.

LIQUID-APPLIED REINFORCED MEMBRANE: THREE COAT LIQUID APPLIED REINFORCED FLASHING SYSTEM WITH FIBERGLASS FABRIC APPROVED BY ROOFING MEMBRANE MANUFACTURER. MODIFIED BITUMEN BASE PLY: SBS SMOOTH MODIFIED BITUMEN, ASTM D 6163, TYPE 1, TORCH APPLIED OVER SUBSTRATE BELOW. MINIMUM 90 MILS THICK.

MODIFIED BITUMEN INNER PLY: SBS SMOOTH MODIFIED BITUMEN, ASTM D 6163, TYPE 1, TORCHED APPLIED OVER SUBSTRATE BELOW. MINIMUM 90 MILS THICK.

MODIFIED BITUMEN CAP SHEET: SBS GRANULE SURFACED MODIFIED BITUMEN, ASTM D 6163, TYPE 1, TORCHED APPLIED OVER MEMBRANE BELOW. MINIMUM 135 MILS THICK.

RIGID INSULATION: POLYISOCYANURATE INSULATION, ASTM C 1289 TYPE 2, MIN. 20 PSI, FLAT INSULATION BOARDS. INSTALL TAPERED INSULATION OVER FLAT INSULATION WHERE DESIGNATED AND AS REQUIRED TO ACHIEVE A 1/4 INCH PER FOOT POSITIVE SLOPE WITH NO PONDING AFTER 24 HOUR DRYING TIME. TAPERED INSULATION SHALL BE FABRICATED AT ZERO INCH THICKNESS AT THIN EDGE. ROOF TRAFFIC PADS: SBS MODIFIED BITUMEN WITH GRANULATED SURFACE, ASTM D 6163, TYPE 2, WITH COLOR CONTRAST TO THE CAP SHEET. COLOR TO BE SELECTED BY OWNER. TORCH APPLIED OVER PRIMED CAP SHEET. MIN. 200 MILS THICK.

SELF-ADHERED UNDERLAYMENT: GCP APPLIED TECHNOLORGIES GRACE ULTRA, HIGH TEMPERATURE, MIN. 280 DEGREES F., .030" THCIK, SELF-ADHERED BUTYL BASED MEMBRANE ASTM D1204, ADHERED OVER PRIMED SUBSTRATE BELOW.

FLASHING AND SHEET METAL SPECIFICATION **SECTION 076200**

BENT METAL PLATE: 16 GAUGE, GALVANIZED STEEL G90. **DOWNSPOUT:** .040 ALUMINUM. .060 ALUMINUM AT BOTTOM 6', PRIMED AND PAINTED TO MATCH EXISTING DOWNSPOUT STRAPS: 22 GAUGE STAINLESS STEEL, TYPE 304 **EXPANSION JOINT COVER:** 22 GAUGE STAINLESS STEEL, TYPE

EXPANSION JOINT CLEAT: 20 GAUGE STAINLESS STEEL, TYPE 316. **GUTTER:** 16 GAUGE STAINLESS STEEL, TYPE 316 GUTTER BRACKET: 1 X 1 BENT STAINLESS STEEL, TYPE 316 **GUTTER STRAP:** 22 GAUGE STAINLESS STEEL, TYPE 304 METAL CLEAT: 20 GAUGE STAINLESS STEEL, TYPE 316. METAL COUNTERFLASHING: 22 GAUGE STAINLESS STEEL, TYPE

METAL EDGE: 22 GAUGE STAINLESS STEEL, TYPE 316. METAL SKIRT FLASHING: 22 GAUGE STAINLESS STEEL, TYPE 316. METAL TRIM FLASHING: 22 GAUGE STAINLESS STEEL, TYPE 316.

ONE-PIECE TRANSITION FLASHING: 22 GAUGE STAINLESS STEEL, TYPE 304. TERMINATION BAR: 1/8" THICK X 1" WIDE STAINLESS STEEL.

ROOF ACCESSORIES: SPECIFICATION SECTION 077200 ROOF HATCH: BASIS OF DESIGN: BILCO TYPE "S-50TB" ENHANCED PERFORMANCE ALUMINUM ROOF HATCH WITH INSULATION CURB

JOINT SEALANTS SPECIFICATION SECTION 07920 BACKER ROD: CLOSED-CELL BACKER ROD. BUTYL SEALANT: ONE-PART GUN GRADE, BUTYL-RUBBER BASED JOINT SEALANT, ASTM C 1311.

SILICONE SEALANT: SINGLE-COMPONENT, NONSAG, NEUTRAL-CURING SILICONE JOINT SEALANT: ASTM C 920, TYPE S, GRADE NS, CLASS 100/50, FOR USE NT. APPLIED TO PRIMED SURFACES.

SEALANT TAPE: 1" WIDE BUTYL SEALANT TAPE, APPLIED BETWEEN METAL SURFACES AND UNDERLYING SURFACE. STRUCTURAL SEALANT: SINGLE-COMPONENT, MOISTURE CURING, GUN GRADE ADHESIVE, "M-1" MANUFACTURED BY CHEM LINK

ENGINEERED SYSTEMS. URETHANE SEALANT: SINGLE-COMPONENT, NONSAG, POLYURETHANE JOINT SEALANT: ASTM C 920, TYPE S, GRADE NS, CLASS 100/50, FOR USE NT. APPLIED TO PRIMED SURFACES.

CONSTRUCTION DOCUMENTS

ORANGE COUNTY GOVERNMENT SOLID WASTE ADMINISTRATION BUILDING ORLANDO, FLORIDA

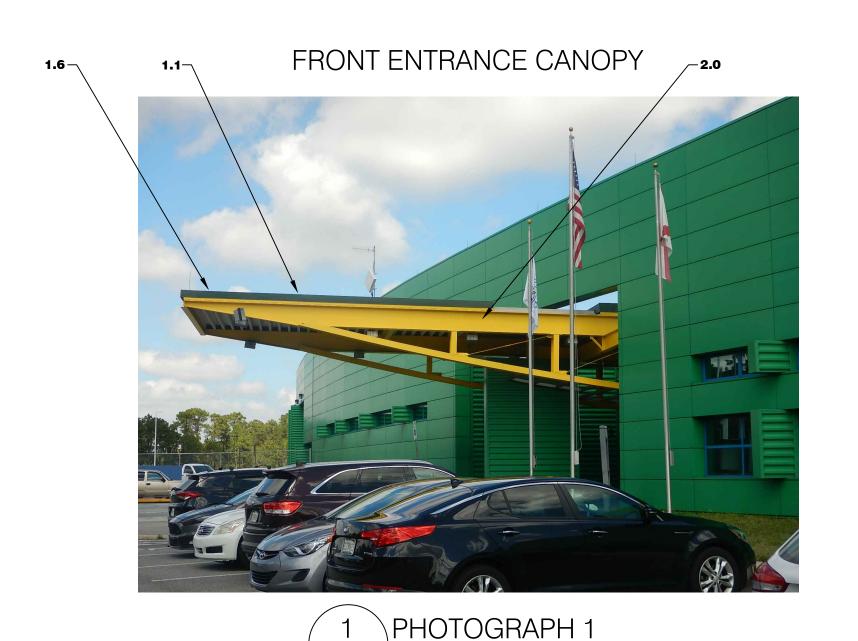
PROJECT NUMBER: 18-093

ROOFING REPLACEMENT PROJECT

JAY AMMON ARCHITECT, INC. 3246 LAKEVIEW OAKS DRIVE ■ LONGWOOD, FLORIDA 32779 (407) 333-1977 ***** FAX: (407) 333-4686 ***** E MAIL: JAY@JAYAMMON.COM REVISIONS

DRAWN BY: NHR PROJECT NUMBER: 18-093

PHASE: CONSTRUCTION DOCS DATE: MAY 8, 2019 ROOF REPLACEMENT



EDGE TRANSITION AT GUTTER END

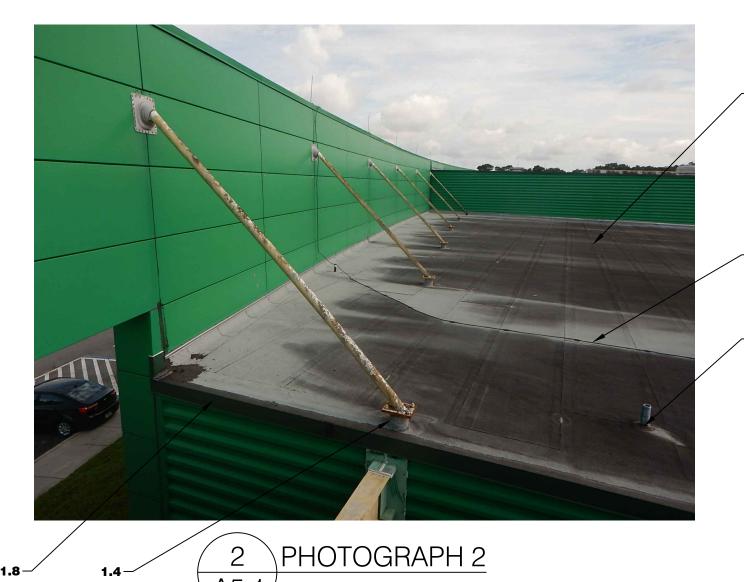


4 \PHOTOGRAPH 4

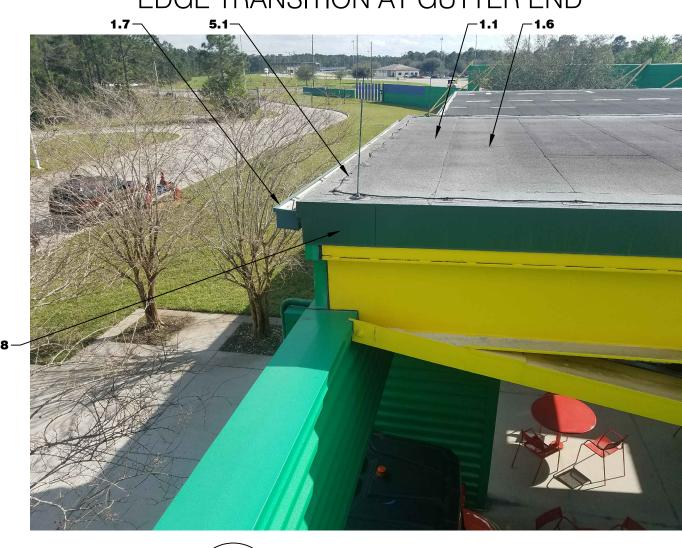
ROOF TRANSITION AT RADIUS WALL



"ROOF B" FLASHINGS

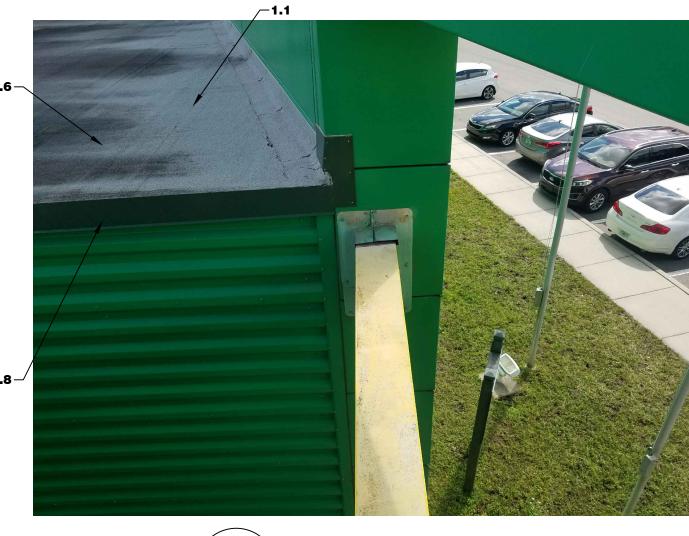


EDGE TRANSITION AT GUTTER END



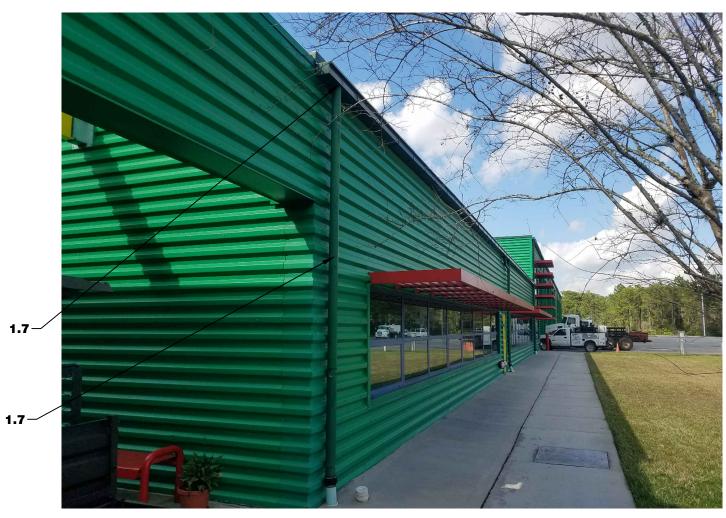
5 PHOTOGRAPH 5

ROOF TRANSITION AT RADIUS WALL



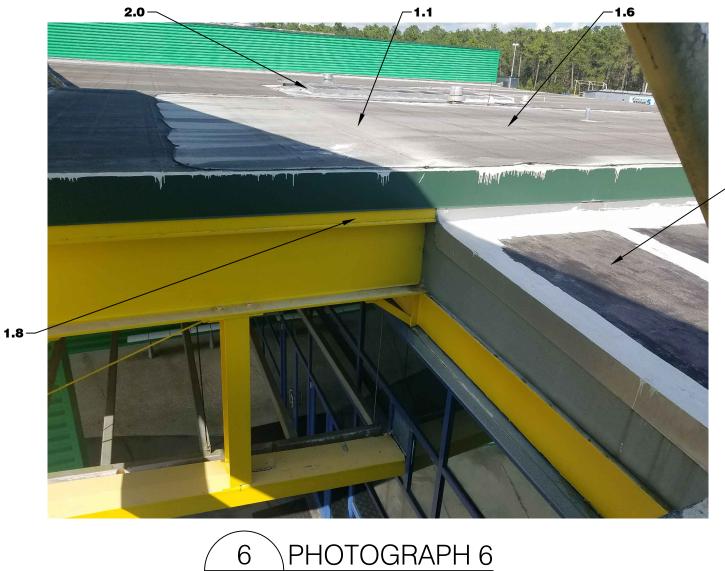
8 PHOTOGRAPH 8

TYPICAL GUTTER EDGE



3 \PHOTOGRAPH 3

TRANSITION AT SKYLIGHT



SCREEN WALL WITH ROOF TOP UNITS

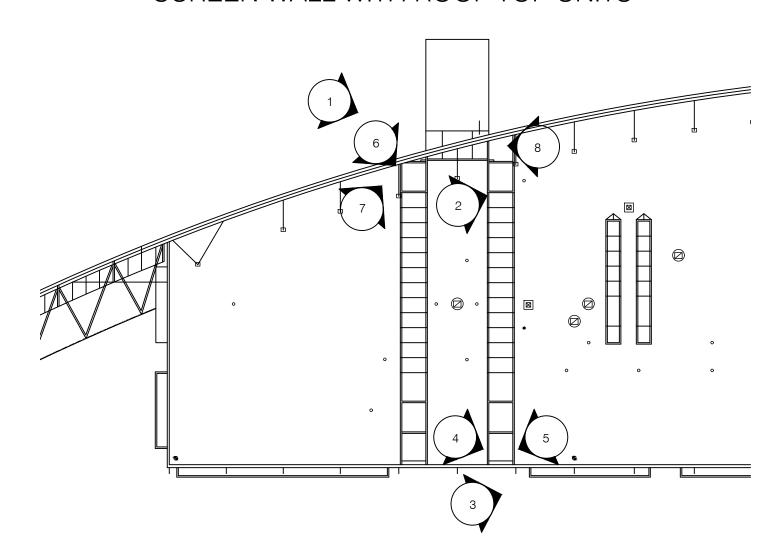


PHOTO LOCATION PLAN



SCOPE OF WORK:

1.0 ROOFING ASSEMBLY TYPE 1 - ROOFING REPLACEMENT - LOW SLOPE ROOF AREAS:
1.1 ROOFING REMOVAL: REMOVE THE EXISTING ROOF SYSTEM DOWN TO THE TOP SURFACE OF THE EXISTING SLOPED STRUCTURAL METAL DECK. REMOVE ANY DAMAGED OR DETERIORATED METAL DECK. REMOVE ALL ASBESTOS CONTAINING MATERIALS AND PROPERLY DISPOSE OF ACCORDING TO OWNER AND CURRENT GOVERNMENTAL REQUIREMENTS. OBTAIN ASBESTOS SURVEY REPORT FROM ORANGE COUNTRY GOVERNMENT PRIOR TO DEMOLITION. THE ROOFING COMPONENTS TO BE REMOVED INCLUDE, BUT ARE NOT LIMITED TO ALL EXISTING COATINGS, MODIFIED BITUMEN ROOF MEMBRANES, COVER BOARD, SINGLE-PLY ROOF MEMBRANE, RIGID POLYISOCYANURATE INSULATION, METAL FLASHINGS, RELATED FASTENERS, AND CANTS.

POLYISOCYANURATE INSULATION, METAL FLASHINGS, RELATED FASTENERS, AND CANTS.

1.2 TEMPORARY REMOVAL: TEMPORARILY REMOVE THE FOLLOWING COMPONENTS AND REINSTALL DURING THE ROOFING REPLACEMENT PROJECT AS REQUIRED TO PROVIDE A WATERTIGHT INSTALLATION. REPAIR OR REPLACE THE COMPONENTS AS REQUIRED TO MEET OR EXCEED THE LEVEL OF PERFORMANCE THAT WAS PRESENT PRIOR TO REMOVAL OF THE COMPONENT. COMPONENTS INCLUDE ELECTRICAL JUNCTION BOXES, OUTLETS, CONDUITS, ANTENNAS, SECURITY CAMERAS, ROOF MOUNTED LIGHTS, POWER VENTS, ELEVATED HVAC EQUIPMENT AND OTHER MISCELLANEOUS ELECTRICAL COMPONENTS. REINSTALL EXISTING COMPONENTS AFTER THE INSTALLATION OF NEW ROOFING ASSEMBLY COMPONENTS.

1.3 EXISTING SKYLIGHT CURBS: REMOVE EXISTING DESIGNATED SKYLIGHTS FROM ROOF SURFACES. SEE STRUCTURAL DRAWINGS FOR DECK AND FRAMING INSTALLATION. INSTALL RIGID INSULATION AND COVER BOARD FLUSH TO ADJACENT ROOF SURFACES AS SHOWN ON APPROVED

1.4 PIPE PENETRATIONS AND EQUIPMENT: WHERE DESIGNATED ON THE DRAWINGS TO REMAIN, REMOVE METAL AND MEMBRANE FLASHINGS AT THE EXISTING PLUMBING VENTS. EXTEND EXISTING PLUMBING VENTS AS REQUIRED TO MAINTAIN A MINIMUM HEIGHT OF 8 INCHES ABOVE THE NEW FINISHED ROOF SURFACE. INSTALL A LIQUID-APPLIED FLASHING SYSTEM BY THE MANUFACTURE OF THE ROOF MEMBRANE AT PIPE PENETRATIONS.

1.5 ENGINEERING: CONTRACTOR TO COMPLETE PULL TESTS OF THE PROPOSED ROOF SYSTEM PER TAS 124 CRITERIA. PROVIDE ENGINEERING CALCULATIONS PREPARED BY A STATE OF FLORIDA LICENSED STRUCTURAL ENGINEER INCLUDING THE TESTED NOA FOR EACH ROOF WIND ZONE. SUBMIT THE PULL TEST RESULTS AND THE ENGINEERED COVER BOARD FASTENER SPACING CALCULATIONS TO THE ARCHITECT AND MANUFACTURER FOR REVIEW PRIOR TO COMMENCEMENT OF THE ROOFING INSTALLATION. SEE STRUCTURAL DRAWINGS FOR WIND UPLIFT PRESSURES.

THE ROOFING INSTALLATION. SEE STRUCTURAL DRAWINGS FOR WIND UPLIFT PRESSURES.

1.6 NEW MODIFIED BITUMEN ROOFING MEMBRANE ASSEMBLY: REMOVE EXISTING WOOD BLOCKING AND INSTALL NEW WOOD BLOCKING AND SIZED AS REQUIRED TO ACCOMMODATE THICKNESS OF THE NEW ROOF SYSTEM. SECURE NEW WOOD BLOCKING WITH NEW #14 SHEET METAL SCREWS AT 6" O.C. TO EXISTING THE STRUCTURAL METAL FRAMING. INSTALL TWO LAYERS OF FLAT POLYISOCYANURATE TO MEET A THERMAL RESISTANCE OF R-25.0. MECHANICALLY ATTACH A CEMENTITIOUS COVER BOARD THROUGH THE POLYISOCYANURATE INSULATION INTO THE METAL DECK TO MEET OR EXCEED PROJECT WIND UPLIFT CRITERIA. PRIME COVER BOARD AS REQUIRED BY ROOF MEMBRANE MANUFACTURER AND TORCH ONE-PLY OF SMOOTH SURFACED MODIFIED BITUMEN BASE SHEET. TORCH APPLY A GRANILLE SURFACED MODIFIED BITUMEN INDUSTRIED. INNER-PLY OVER BASE SHEET. TORCH APPLY A GRANULE SURFACED MODIFIED BITUMEN CAP SHEET OVER INNER PLY PER ROOF MEMBRANE MANUFACTURES RECOMMENDATIONS. TORCH APPLY ONE SMOOTH SURFACED MODIFIED BITUMEN BASE FLASHING PLY AND LIQUID APPLIED REINFORCED FLASHING WITH EMBEDDED GRANULARS TO MATCH CAP SHEET. SEE DETAIL A/3.1. SEE SPECIFICATION SECTION 075216.

1.7 ROOF DRAINAGE COMPONENTS: INSTALL NEW .050" MILL FINISHED ALUMINUM GUTTERS AND DOWNSPOUTS SIZED TO MEET CURRENT BUILDING CODE REQUIREMENTS. NEW GUTTER SYSTEM TO TO MEET ANSI/SPRI ES-1 REQUIREMENTS. PRIME AND PAINT GUTTER DOWNSPOUTS TO MATCH ADJACENT BUILDING SURFACES. PROVIDE NEW SPLASH BLOCKS WHERE DOWNSPOUT DOES NOT CONNECT TO SUBGRADE DRAIN LINE.

1.8 METAL EDGE FLASHING INSTALLATION: INSTALL NEW PRE-MANUFACTURED ALUMINUM METAL EDGE FLASHING TO MEET ANSI/SPRI ES-1 REQUIREMENTS. INSTALL FULLY WELDED/SOLDERED ONE PIECE TRANSITION FLASHINGS AT CORNERS, TRANSITIONS AND TERMINATIONS. RESECURE ALL WOOD BLOCKING PER PROJECT WIND UPLIFT PRESSURES AND ES-1 REQUIREMENTS. PRIME AND PAINT METAL EDGE TO MATCH ADJACENT BUILDING SURFACES. 1.9 COUNTERFLASHING INSTALLATION: REMOVE ALL EXISTING COUNTERFLASHINGS AND WIND

CLIPS. FABRICATE AND INSTALL NEW STAINLESS STEEL FLASHINGS WHERE INDICATED AND WHERE REQUIRED FOR A TOTAL ROOFING ASSEMBLY. SOLDER ALL TRANSITION FLASHING JOINTS NOT REQUIRED TO THERMALLY EXPAND AND CONTRACT. SEE SPECIFICATION SECTION 076200. 1.10 ROOF WALK PADS: INSTALL NEW MODIFIED BITUMEN ROOF WALKWAY PADS AT DESIGNATED LOCATIONS. COLOR OF NEW WALKPADS TO BE SELECTED BY OWNER IN FIELD.

2.0 EXISTING SKYLIGHT ASSEMBLIES:
2.1 SKYLIGHT REMOVAL: REMOVE ALL SKYLIGHT COMPONENTS FROM THE EXISTING BUILDING STRUCTURE. SKYLIGHT COMPONENTS INCLUDE BUT ARE NOT LIMITED TO SKYLIGHT FRAMES, GLAZING, FLASHINGS, GUTTER SYSTEMS, SEALANTS AND FASTENERS. NOTIFY ARCHITECT OF ANY DETERIORATED SKYLIGHT FRAMING. 2.2 SKYLIGHT IN-FILL: INSTALL NEW METAL FRAMING AND NEW METAL DECK OVER EXISTING

SKYLIGHT OPENINGS AS SHOWN ON STRUCTURAL DRAWINGS.

2.3 INTERIOR FINISHES: PREPARE, PRIME AND PAINT THE EXPOSED UNDERSIDE SURFACES OF ALL NEW STRUCTURAL COMPONENTS TO MATCH ADJACENT INTERIOR FINISHES. PAINT ALL EXPOSED ROOF SYSTEM FASTENERS TO MATCH METAL DECK SURFACES.

3.1 NEW EXPANSION JOINT COVER INSTALLATION: INSTALL NEW 22 GAUGE STAINLESS STEEL ROOF AND WALL EXPANSION JOINT COVERS. INSTALL ONE PIECE TRANSITION FLASHINGS WITH ALL SOLDERED / WELDED JOINTS AT ALL TERMINATIONS AND TRANSITIONS WITH ADJACENT BUILDING ENVELOPE COMPONENTS.

4.1 ROOF TOP GUARD RAIL INSTALLATION: AT ALL CURBED ROOF MOUNTED EQUIPMENT WITHIN 10'-0" OF THE PARAPET WALL ASSEMBLY, INSTALL NEW KEEGUARD ROOF TOP GUARD RAIL SYSTEM BY KEE SAFETY INC.. CONTRACTOR TO PROVIDE SEALED ENGINEERED SHOP DRAWINGS OF GUARDRAIL SYSTEMS. SEE ROOF PLANS FOR GUARDRAIL INSTALLATION.

5.0 LIGHTNING PROTECTION COMPONENTS:

5.1 LIGHTNING PROTECTION REINSTALLATION: TEMPORARILY REMOVE ALL EXISTING LIGHTNING AIR TERMINALS AND CABLES FROM THE SIDE SURFACES OF THE EXISTING METAL COPINGS, PARAPET WALLS AND ANY OTHER ROOF SURFACES WHICH ARE ATTACHED TO COMPONENTS DESCRIBED IN THIS SCOPE OF WORK. REINSTALL LIGHTNING PROTECTION SYSTEM IN ACCORDANCE WITH NFPA-780 BY A LICENSED CONTRACTOR WITH A MINIMUM 5 YEARS OF EXPERIENCE IN THE INSTALLATION OF LIGHTNING PROTECTION SYSTEMS. MAINTAIN OPERATION OF LIGHTNING PROTECTION SYSTEMS. THE REINSTALLED LIGHTNING PROTECTION SYSTEM DURING CONSTRUCTION. RE-CERTIFY THE REINSTALLED LIGHTNING

6.1 ROOF HATCH REPLACEMENT: REMOVE EXISTING ROOF HATCH AND INSTALL NEW BILCO TYPE S STAINLESS STEEL ROOF HATCH. INSTALL NEW STAINLESS STEEL LATCHING HARDWARE BY BILCO AT ROOF HATCH. INSTALL SKIRT FLASHING AT NEW ROOF HATCH AND BASE FLASHING

> CONSTRUCTION DOCUMENTS ORANGE COUNTY GOVERNMENT SOLID WASTE ADMINISTRATION BUILDING

> > PROJECT NUMBER: 18-093

ROOFING REPLACEMENT PROJECT

JAY AMMON ARCHITECT, INC. 3246 LAKEVIEW OAKS DRIVE . LONGWOOD, FLORIDA 32779 407) 333-1977 • FAX: (407) 333-4686 • E MAIL: JAY@JAYAMMON.CON

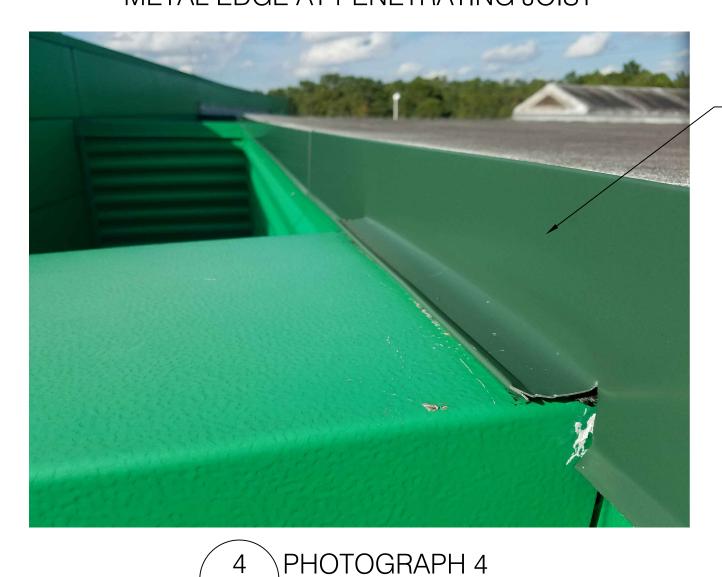
PHASE: CONSTRUCTION DOCS

PHOTOGRAPHS

BASE FLASHING

METAL EDGE AT PENETRATING JOIST

\PHOTOGRAPH 1

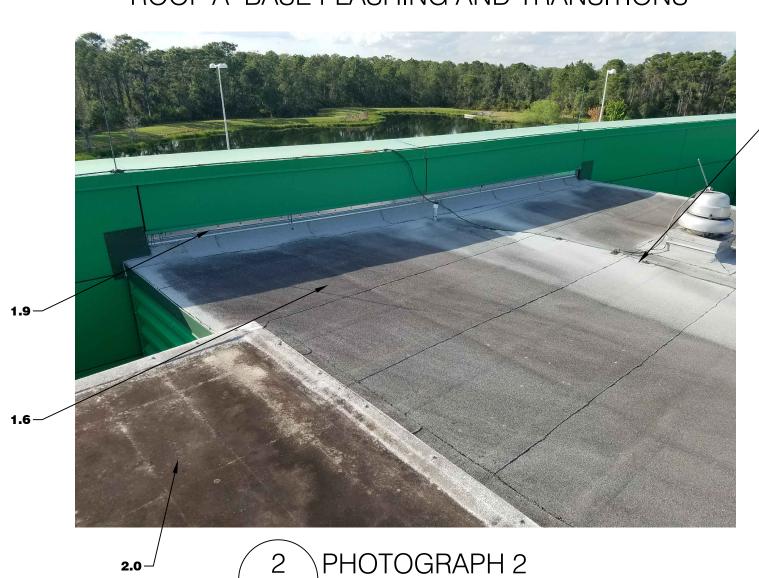


DIAGONAL BRACING PENETRATION AT EXPANSION JOINT CURB

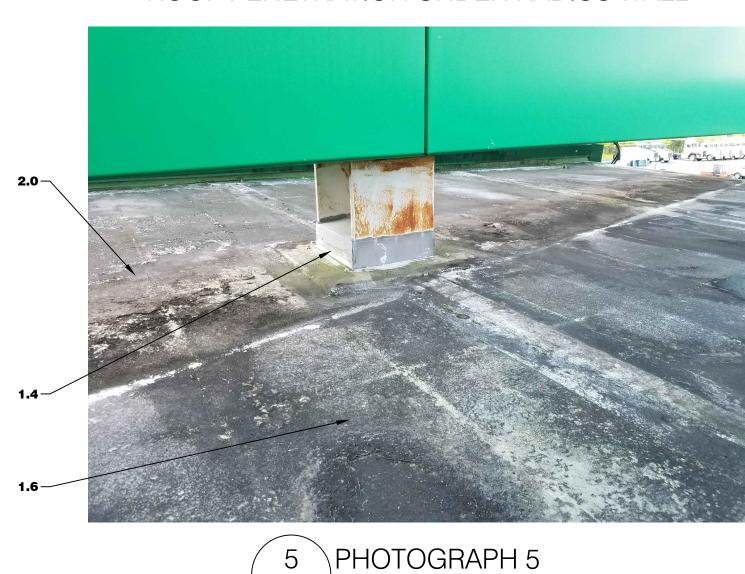


PHOTOGRAPH 7

"ROOF A" BASE FLASHING AND TRANSITIONS



ROOF PENETRATION UNDER RADIUS WALL



EXPANSION JOINT TRANSITION FROM "ROOF A" TO "ROOF B"



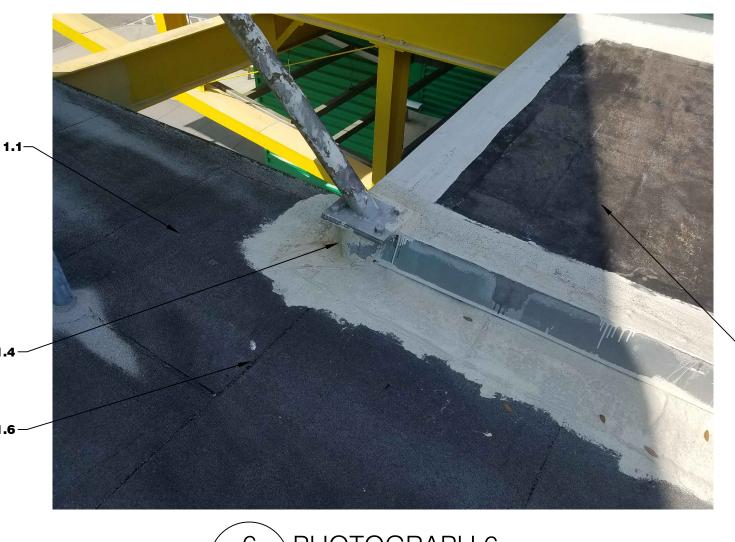
8 \PHOTOGRAPH 8

ROOF EDGE TRANSITION



3 \PHOTOGRAPH 3

ROOF PENETRATION AT CORNER OF EX. SKYLIGHT



6 \PHOTOGRAPH 6

SCREEN WALL WITH ROOF TOP UNITS

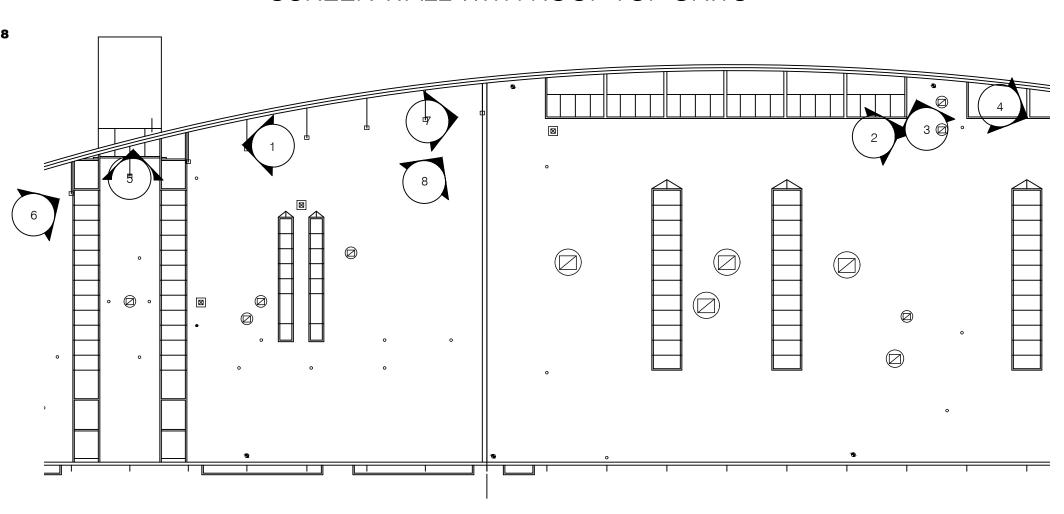


PHOTO LOCATION PLAN



SCOPE OF WORK:

1.0 ROOFING ASSEMBLY TYPE 1 - ROOFING REPLACEMENT - LOW SLOPE ROOF AREAS:
1.1 ROOFING REMOVAL: REMOVE THE EXISTING ROOF SYSTEM DOWN TO THE TOP SURFACE OF THE EXISTING SLOPED STRUCTURAL METAL DECK. REMOVE ANY DAMAGED OR DETERIORATED METAL DECK. REMOVE ALL ASBESTOS CONTAINING MATERIALS AND PROPERLY DISPOSE OF

METAL DECK. REMOVE ALL ASBESTOS CONTAINING MATERIALS AND PROPERLY DISPOSE OF ACCORDING TO OWNER AND CURRENT GOVERNMENTAL REQUIREMENTS. OBTAIN ASBESTOS SURVEY REPORT FROM ORANGE COUNTRY GOVERNMENT PRIOR TO DEMOLITION. THE ROOFING COMPONENTS TO BE REMOVED INCLUDE, BUT ARE NOT LIMITED TO ALL EXISTING COATINGS, MODIFIED BITUMEN ROOF MEMBRANES, COVER BOARD, SINGLE-PLY ROOF MEMBRANE, RIGID POLYISOCYANURATE INSULATION, METAL FLASHINGS, RELATED FASTENERS, AND CANTS.

1.2 TEMPORARY REMOVAL: TEMPORARILY REMOVE THE FOLLOWING COMPONENTS AND REINSTALL DURING THE ROOFING REPLACEMENT PROJECT AS REQUIRED TO PROVIDE A WATERTIGHT INSTALLATION. REPAIR OR REPLACE THE COMPONENTS AS REQUIRED TO MEET OR EXCEED THE LEVEL OF PERFORMANCE THAT WAS PRESENT PRIOR TO REMOVAL OF THE COMPONENT. COMPONENTS INCLUDE ELECTRICAL JUNCTION BOXES, OUTLETS, CONDUITS, ANTENNAS, SECURITY CAMERAS, ROOF MOUNTED LIGHTS, POWER VENTS, ELEVATED HVAC EQUIPMENT AND OTHER MISCELLANEOUS ELECTRICAL COMPONENTS. REINSTALL EXISTING COMPONENTS AFTER THE INSTALLATION OF NEW ROOFING ASSEMBLY COMPONENTS.

1.3 EXISTING SKYLIGHT CURBS: REMOVE EXISTING DESIGNATED SKYLIGHTS FROM ROOF SURFACES. SEE STRUCTURAL DRAWINGS FOR DECK AND FRAMING INSTALLATION. INSTALL RIGID INSULATION AND COVER BOARD FLUSH TO ADJACENT ROOF SURFACES AS SHOWN ON APPROVED

1.4 PIPE PENETRATIONS AND EQUIPMENT: WHERE DESIGNATED ON THE DRAWINGS TO REMAIN, REMOVE METAL AND MEMBRANE FLASHINGS AT THE EXISTING PLUMBING VENTS. EXTEND EXISTING PLUMBING VENTS AS REQUIRED TO MAINTAIN A MINIMUM HEIGHT OF 8 INCHES ABOVE THE NEW FINISHED ROOF SURFACE. INSTALL A LIQUID-APPLIED FLASHING SYSTEM BY THE MANUFACTURER OF THE ROOF MEMBRANE AT PIPE PENETRATIONS.

1.5 ENGINEERING: CONTRACTOR TO COMPLETE PULL TESTS OF THE PROPOSED ROOF SYSTEM PER TAS 124 CRITERIA. PROVIDE ENGINEERING CALCULATIONS PREPARED BY A STATE OF FLORIDA LICENSED STRUCTURAL ENGINEER INCLUDING THE TESTED NOA FOR EACH ROOF WIND ZONE. SUBMIT THE PULL TEST RESULTS AND THE ENGINEERED COVER BOARD FASTENER SPACING CALCULATIONS TO THE ARCHITECT AND MANUFACTURER FOR REVIEW PRIOR TO COMMENCEMENT OF THE ROOFING INSTALLATION. SEE STRUCTURAL DRAWINGS FOR WIND UPLIFT PRESSURES. 1.6 NEW MODIFIED BITUMEN ROOFING MEMBRANE ASSEMBLY: REMOVE EXISTING WOOD BLOCKING AND INSTALL NEW WOOD BLOCKING AND SIZED AS REQUIRED TO ACCOMMODATE THICKNESS OF THE NEW TO SYSTEM. SECURE NEW WOOD BLOCKING WITH NEW #14 SHEET METAL SCREWS AT 6" O.C. TO EXISTING THE STRUCTURAL METAL FRAMING. INSTALL TWO LAYERS OF FLAT POLYISOCYANURATE TO MEET A THERMAL RESISTANCE OF R-25.0. MECHANICALLY ATTACH A CEMENTITIOUS COVER BOARD THROUGH THE POLYISOCYANURATE INSULATION INTO THE METAL DECK TO MEET OR EXCEED PROJECT WIND UPLIFT CRITERIA. PRIME COVER BOARD AS REQUIRED BY ROOF MEMBRANE MANUFACTURER AND TORCH ONE-PLY OF SMOOTH SURFACED MODIFIED BITUMEN BASE SHEET OVER THE NEW COVER BOARD. TORCH APPLY A SMOOTH SURFACED MODIFIED BITUMEN

INNER-PLY OVER BASE SHEET. TORCH APPLY A GRANULE SURFACED MODIFIED BITUMEN CAP SHEET OVER INNER PLY PER ROOF MEMBRANE MANUFACTURES RECOMMENDATIONS. TORCH APPLY ONE SMOOTH SURFACED MODIFIED BITUMEN BASE FLASHING PLY AND LIQUID APPLIED REINFORCED FLASHING WITH EMBEDDED GRANULARS TO MATCH CAP SHEET. SEE DETAIL A/3.1. SEE SPECIFICATION SECTION 075216. 1.7 ROOF DRAINAGE COMPONENTS: INSTALL NEW .050" MILL FINISHED ALUMINUM GUTTERS

AND DOWNSPOUTS SIZED TO MEET CURRENT BUILDING CODE REQUIREMENTS. NEW GUTTER SYSTEM TO TO MEET ANSI/SPRI ES-1 REQUIREMENTS. PRIME AND PAINT GUTTER DOWNSPOUTS TO MATCH ADJACENT BUILDING SURFACES. PROVIDE NEW SPLASH BLOCKS WHERE DOWNSPOUT DOES NOT

1.8 METAL EDGE FLASHING INSTALLATION: INSTALL NEW PRE-MANUFACTURED ALUMINUM METAL EDGE FLASHING TO MEET ANSI/SPRI ES-1 REQUIREMENTS. INSTALL FULLY WELDED/SOLDERED ONE PIECE TRANSITION FLASHINGS AT CORNERS, TRANSITIONS AND TERMINATIONS. RESECURE ALL WOOD BLOCKING PER PROJECT WIND UPLIFT PRESSURES AND ES-1 REQUIREMENTS. PRIME AND PAINT METAL EDGE TO MATCH ADJACENT BUILDING SURFACES. 1.9 COUNTERFLASHING INSTALLATION: REMOVE ALL EXISTING COUNTERFLASHINGS AND WIND CLIPS. FABRICATE AND INSTALL NEW STAINLESS STEEL FLASHINGS WHERE INDICATED AND WHERE

REQUIRED FOR A TOTAL ROOFING ASSEMBLY. SOLDER ALL TRANSITION FLASHING JOINTS NOT REQUIRED TO THERMALLY EXPAND AND CONTRACT. SEE SPECIFICATION SECTION 076200. 1.10 ROOF WALK PADS: INSTALL NEW MODIFIED BITUMEN ROOF WALKWAY PADS AT DESIGNATED LOCATIONS. COLOR OF NEW WALKPADS TO BE SELECTED BY OWNER IN FIELD.

2.0 EXISTING SKYLIGHT ASSEMBLIES:

2.1 SKYLIGHT REMOVAL: REMOVE ALL SKYLIGHT COMPONENTS FROM THE EXISTING BUILDING STRUCTURE. SKYLIGHT COMPONENTS INCLUDE BUT ARE NOT LIMITED TO SKYLIGHT FRAMES, GLAZING, FLASHINGS, GUTTER SYSTEMS, SEALANTS AND FASTENERS. NOTIFY ARCHITECT OF ANY DETERIORATED SKYLIGHT FRAMING. 2.2 SKYLIGHT IN-FILL: INSTALL NEW METAL FRAMING AND NEW METAL DECK OVER EXISTING

SKYLIGHT OPENINGS AS SHOWN ON STRUCTURAL DRAWINGS.

2.3 INTERIOR FINISHES: PREPARE, PRIME AND PAINT THE EXPOSED UNDERSIDE SURFACES OF ALL NEW STRUCTURAL COMPONENTS TO MATCH ADJACENT INTERIOR FINISHES. PAINT ALL EXPOSED ROOF SYSTEM FASTENERS TO MATCH METAL DECK SURFACES.

3.1 NEW EXPANSION JOINT COVER INSTALLATION: INSTALL NEW 22 GAUGE STAINLESS STEEL ROOF AND WALL EXPANSION JOINT COVERS. INSTALL ONE PIECE TRANSITION FLASHINGS WITH ALL SOLDERED / WELDED JOINTS AT ALL TERMINATIONS AND TRANSITIONS WITH ADJACENT BUILDING ENVELOPE COMPONENTS.

4.1 ROOF TOP GUARD RAIL INSTALLATION: AT ALL CURBED ROOF MOUNTED EQUIPMENT WITHIN 10'-0" OF THE PARAPET WALL ASSEMBLY, INSTALL NEW KEEGUARD ROOF TOP GUARD RAIL SYSTEM BY KEE SAFETY INC.. CONTRACTOR TO PROVIDE SEALED ENGINEERED SHOP DRAWINGS OF GUARDRAIL SYSTEMS. SEE ROOF PLANS FOR GUARDRAIL INSTALLATION.

5.0 LIGHTNING PROTECTION COMPONENTS:

5.1 LIGHTNING PROTECTION REINSTALLATION: TEMPORARILY REMOVE ALL EXISTING LIGHTNING AIR TERMINALS AND CABLES FROM THE SIDE SURFACES OF THE EXISTING METAL COPINGS, PARAPET WALLS AND ANY OTHER ROOF SURFACES WHICH ARE ATTACHED TO COMPONENTS DESCRIBED IN THIS SCOPE OF WORK. REINSTALL LIGHTNING PROTECTION SYSTEM IN ACCORDANCE WITH NFPA-780 BY A LICENSED CONTRACTOR WITH A MINIMUM 5 YEARS OF EXPERIENCE IN THE INSTALLATION OF LIGHTNING PROTECTION SYSTEMS. MAINTAIN OPERATION OF LIGHTNING PROTECTION SYSTEM DURING CONSTRUCTION. RE-CERTIFY THE REINSTALLED LIGHTNING

6.1 ROOF HATCH REPLACEMENT: REMOVE EXISTING ROOF HATCH AND INSTALL NEW BILCO TYPE S STAINLESS STEEL ROOF HATCH. INSTALL NEW STAINLESS STEEL LATCHING HARDWARE BY BILCO AT ROOF HATCH. INSTALL SKIRT FLASHING AT NEW ROOF HATCH AND BASE FLASHING

> CONSTRUCTION DOCUMENTS ORANGE COUNTY GOVERNMENT SOLID WASTE ADMINISTRATION BUILDING

ROOFING REPLACEMENT PROJECT

PROJECT NUMBER: 18-093

JAY AMMON ARCHITECT, INC. 3246 LAKEVIEW OAKS DRIVE • LONGWOOD, FLORIDA 32779 407) 333-1977 • FAX: (407) 333-4686 • E MAIL: JAY@JAYAMMON.COM

PHASE: CONSTRUCTION DOCS

PHOTOGRAPHS

THE DESIGN PROFESSIONAL OF RECORD OR ANY OF THE DESIGN PROFESSIONAL OF RECORD'S CONSULTANTS, AGENTS, OR EMPLOYEES ANY DUTY OR AUTHORITY TO SUPERVISE OR DIRECT THE FURNISHING OR PERFORMANCE OF THE WORK OR ANY DUTY OR AUTHORITY TO UNDERTAKE RESPONSIBILITIES CONTRARY TO THE PROVISIONS OF THE CONTRACT DOCUMENTS.

2. IT IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO OBTAIN ALL CONTRACT DOCUMENTS AND LATEST ADDENDA AND TO SUBMIT SUCH DOCUMENTS TO ALL SUBCONTRACTORS AND MATERIAL SUPPLIERS PRIOR TO THE SUBMITTAL OF SHOP DRAWINGS, FABRICATION OF ANY STRUCTURAL MEMBERS, AND ERECTION IN THE FIELD.

3. THE CONTRACT STRUCTURAL DRAWINGS AND SPECIFICATIONS REPRESENT THE FINISHED STRUCTURE, AND, EXCEPT WHERE SPECIFICALLY SHOWN, DO NOT INDICATE THE METHOD OR MEANS OF CONSTRUCTION. THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK AND SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, PROCEDURES, TECHNIQUES, AND SEQUENCE.

4. REFERENCE TO STANDARD SPECIFICATIONS OF ANY TECHNICAL SOCIETY, ORGANIZATION, OR ASSOCIATION OR TO CODES OF LOCAL OR STATE AUTHORITIES, SHALL MEAN THE LATEST STANDARD, CODE, SPECIFICATION OR TENTATIVE SPECIFICATION ADOPTED AT THE DATE OF TAKING BIDS, UNLESS SPECIFICALLY STATED OTHERWISE.

CONTRACT DOCUMENTS SHALL GOVERN IN THE EVENT OF A CONFLICT WITH THE CODE OF PRACTICE OR SPECIFICATIONS OF ACI, PCI, AISC, OR OTHER STANDARDS. WHERE A CONFLICT OCCURS WITHIN THE CONTRACT DOCUMENTS, THE STRICTEST REQUIREMENT SHALL GOVERN. 6. MATERIAL, WORKMANSHIP, AND DESIGN SHALL CONFORM TO THE REFERENCED BUILDING CODE.

7. STRUCTURAL DRAWINGS SHALL BE USED IN CONJUNCTION WITH THE ARCHITECTURAL, MECHANICAL, ELECTRICAL, SHOP DRAWINGS AND SPECIFICATIONS. CONTRACTOR SHALL COORDINATE THE STRUCTURAL DOCUMENTS WITH THE ARCHITECTURAL, MECHANICAL, ELECTRICAL, PLUMBING AND CIVIL DOCUMENTS. DESIGN PROFESSIONAL SHALL BE NOTIFIED OF ANY DISCREPANCY OR OMISSION. FOR DIMENSIONS NOT SHOWN ON THE STRUCTURAL DRAWINGS SEE THE ARCHITECTURAL DRAWINGS.

8. CONTRACTOR SHALL VERIFY EXISTING DIMENSIONS, ELEVATIONS, AND SITE CONDITIONS BEFORE STARTING WORK. DESIGN PROFESSIONAL SHALL BE NOTIFIED OF ANY DISCREPANCY. 9. OPENINGS THROUGH FLOORS, ROOFS, AND WALLS FOR DUCTS, PIPING, AND/OR CONDUIT SHALL

BE COORDINATED BY THE CONTRACTOR. CONTRACTOR SHALL VERIFY SIZES AND LOCATIONS OF HOLES AND OPENINGS WITH THE MECHANICAL. ELECTRICAL. PLUMBING, AND FIRE PROTECTION DRAWINGS AND THE RESPECTIVE SUBCONTRACTORS AND PROVIDE THIS INFORMATION TO ANY STRUCTURAL SUBCONTRACTORS THAT WILL BE AFFECTED BY ANY OPENINGS THAT REQUIRE SUPPLEMENTARY FRAMING PER THE TYPICAL DETAILS.

10. CONTRACTOR HAS SOLE RESPONSIBILITY FOR MEANS, METHODS, TECHNIQUES, SEQUENCES, AND PROCEDURES OF CONSTRUCTION.

11. THE STRUCTURE IS STABLE ONLY IN ITS COMPLETED FORM. TEMPORARY SUPPORTS REQUIRED FOR STABILITY DURING ALL INTERMEDIATE STAGES OF CONSTRUCTION SHALL BE DESIGNED, FURNISHED, AND INSTALLED BY THE CONTRACTOR.

12. CONTRACTOR HAS SOLE RESPONSIBILITY TO COMPLY WITH ALL OSHA REGULATIONS. 13. REVIEW OF SUBMITTALS OR SHOP DRAWINGS BY THE DESIGN PROFESSIONAL DOES NOT RELIEVE THE CONTRACTOR OF THE SOLE RESPONSIBILITY TO REVIEW AND CHECK ALL SUBMITTALS AND SHOP DRAWINGS BEFORE SUBMITTING TO THE DESIGN PROFESSIONAL. CONTRACTOR REMAINS

SOLELY RESPONSIBLE FOR ERRORS AND OMISSIONS ASSOCIATED WITH THE PREPARATION OF SHOP DRAWINGS AS THEY PERTAIN TO MEMBER SIZES, DETAILS, AND DIMENSIONS SPECIFIED IN THE CONTRACT DOCUMENTS. 14. DETAILS LABELED "TYPICAL" ON THE STRUCTURAL DRAWINGS APPLY TO ALL SITUATIONS

OCCURRING ON THE PROJECT THAT ARE THE SAME OR SIMILAR TO THE TYPICAL DETAILS UNLESS THOSE LOCATIONS ARE SPECIFICALLY DETAILED OTHERWISE

15. CONTRACTOR TO ISSUE REQUEST FOR INFORMATION (RFI) FOR ANY INFORMATION NOT CLEAR/NOT SHOWN IN THE DRAWINGS.

16. DO NOT SCALE DRAWINGS.

17. ANY MATERIALS OR PRODUCTS SUBMITTED FOR APPROVAL THAT ARE DIFFERENT FROM THE MATERIAL OR PRODUCTS SPECIFIED IN THE STRUCTURAL CONTRACT DOCUMENTS WILL BE APPROVED ONLY IF THE FOLLOWING CRITERIA ARE SATISFIED:

 a. A COST SAVINGS TO THE OWNER IS DOCUMENTED AND SUBMITTED WITH THE REQUEST. THE MATERIAL OR PRODUCT HAS BEEN APPROVED BY THE INTERNATIONAL CODE COUNCIL (ICC) AND THE ICC REPORT IS SUBMITTED WITH THE REQUEST.

THE ICC ESR THAT IS SUBMITTED MUST REFERENCE THE BUILDING CODE UNDER WHICH THE PROJECT IS PERMITTED. ICC REPORTS THAT HAVE BEEN DISCONTINUED AT THE TIME OF PRODUCT INSTALLATION WILL NOT BE ACCEPTED.

SUBMITTALS NOT SATISFYING THE ABOVE CRITERIA WILL NOT BE CONSIDERED. 18. REFER TO SPECIFICATIONS FOR SUBSTITUTION PROCEDURES. BASE CONSULTANTS, INC. RETAINS THE RIGHT TO REJECT ANY SUBSTITUTION REQUESTS.

CODE/DESIGN CRITERIA

1. STRUCTURE IS DESIGNED IN ACCORDANCE WITH THE FOLLOWING:

 FLORIDA BUILDING CODE 2017. ASCE 7

2. GRAVITY LOADS a. DEAD LOADS:

MISCELLANEOUS CEILING AND HANGING MECHANICAL

10 PSF LOADS SUCH AS DUCT WORK AND SPRINKLER PIPES b. UNIFORM LIVE LOADS:

ROOF

LATERAL LOADS :

4. PROVISIONS SHALL BE MADE IN THE DETAILING, FABRICATION, AND ERECTION OF ALL CLADDING, PARTITIONS, WALLS, ETC. TO ACCOUNT FOR FLOOR TO FLOOR DEFLECTIONS AND LATERAL FRAME DEFLECTION.

STRUCTURAL STEEL

MATERIAL

a. HOT ROLLED STRUCTURAL MEMBERS: ALL HOT ROLLED STEEL PLATES, SHAPES, SHEET PILING,

AND BARS SHALL BE NEW STEEL CONFORMING TO ASTM SPECIFICATION A6-98A. b. ASTM SPECIFICATION AND GRADE: CLEARLY MARK THE GRADE OF STEEL ON EACH PIECE, WITH A DISTINGUISHING MARK VISIBLE FROM FLOOR SURFACES, FOR THE PURPOSE OF FIELD INSPECTION OF PROPER GRADE OF STEEL. UNLESS NOTED OTHERWISE ON THE DRAWINGS,

STRUCTURAL STEEL SHALL BE AS FOLLOWS: W- AND WT-SHAPES: ASTM A 992 (FY=50KSI)

• C-SHAPES: ASTM A 36

L-SHAPES: ASTM A 36

RECTANGULAR HSS: ASTM A 500 [GRADE B (FY=46 KSI)]

EDGE ANGLES, BENT PLATES, ANGLE HANGERS, AND ANGLE KICKERS: ASTM A 36

CONNECTION MATERIAL:

 BEAM COLUMN CONTINUITY PLATES AND DOUBLER PLATES: ASTM A 572 GRADE 50 e. ALL CONNECTION MATERIAL, EXCEPT AS NOTED OTHERWISE HEREIN OR ON THE DRAWINGS, INCLUDING BEARING PLATES, GUSSET PLATES, STIFFENER PLATES, FILLER PLATES, ANGLES, ETC. SHALL CONFORM TO ASTM A 36 UNLESS A HIGHER GRADE OF STEEL IS REQUIRED BY STRENGTH AND PROVIDED THE RESULTING SIZES ARE COMPATIBLE WITH THE CONNECTED MEMBERS.

2. CONNECTIONS

a. REFER TO THE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

STRUCTURAL BOLTS AND THREADED FASTENERS

 A 325 BOLTS: ALL BOLTS IN STRUCTURAL CONNECTIONS SHALL CONFORM TO ASTM A 325 TYPE 1, UNLESS INDICATED OTHERWISE ON THE DRAWINGS.

 A 490 BOLTS: SEE DRAWINGS FOR LOCATIONS REQUIRING ASTM A 490 TYPE 1 BOLTS. BOLTED MOMENT CONNECTIONS SHALL BE SLIP-CRITICAL CONNECTIONS. OTHER CONNECTIONS SHALL BE BEARING CONNECTIONS WITH THREADS INCLUDED IN SHEAR PLANES.

d. WELDING • UNLESS NOTED OTHERWISE, ELECTRODES FOR WELDING SHALL CONFORM TO E70XX

(SMAW), F7XX-EXXX (SAW), ER70S-X (GMAW), OR E7XT-X (FCAW).

IN BUILDING CONSTRUCTION". ELECTRODES FOR GRADE 60 OR GRADE 65 MATERIAL SHALL CONFORM TO E80XX (SMAW),

WELDING SHALL CONFORM TO THE STANDARDS SET FORTH IN AWS PUBLICATION, "WELDING

F8XX-EXX-XX (SAW), ER80S-X (GMAW), OR E8XT-X (FCAW). WELDS INDICATED "CIP" ("PIP") SHALL BE COMPLETE (PARTIAL) JOINT PENETRATION GROOVE WELDS. FABRICATOR SHALL PRODUCE COMPLETE [OR PARTIAL] JOINT PENETRATION GROOVE WELDS WHICH CONFORM TO ALL AWS D1.1 QUALIFIED WELD REQUIREMENTS AND

WHICH ARE APPLICABLE TO THE SPECIFIC CONDITIONS SHOWN. • ALL ERECTION DRAWINGS SHALL SHOW ALL FIELD WELDS REQUIRED.

PROVIDE DECK IN LENGTHS ADEQUATE FOR A THREE-SPAN CONDITION WHERE POSSIBLE

THE CONTRACTOR SHALL VERIFY THE SIZE AND LOCATION OF ALL OPENINGS, SLEEVES, INSERTS, ETC., WITH SHOP DRAWINGS OF THE EQUIPMENT TO BE INSTALLED.

3. STEEL DECK SHALL BE ATTACHED TO ALL MEMBERS ON WHOM IT BEARS.

4. MINIMUM ATTACHMENT AT SUPPORTS:

a. INTERIOR OF ROOF - STEEL DECK UNITS SHALL BE FASTENED TO ALL SUPPORT MEMBERS AT EACH RIB (36/7) WITH HILTI X-ENP-19-L OR APPROVED EQUAL FOR 1.5" ROOF DECK. A PATTERN OF (24/3) SHALL BE USED AT 3" ROOF DECK.

b. EDGE/CORNER OF ROOF - STEEL DECK UNITS SHALL BE FASTENED TO ALL SUPPORT MEMBERS AT EACH RIB WITH TWO HILTI X-ENP-19-L OR APPROVED EQUAL (36/14) FOR 1.5" ROOF DECK. A PATTERN OF (24/6) SHALL BE USED AT 3" ROOF DECK.

FOR ALL ZONES OF ROOF, MEMBERS PARALLEL TO DECK SPAN SHALL BE FASTENED TO DECK BY HILTI X-ENP-19-L OR APPROVED EQUAL AT A SPACING OF 12".

5. MINIMUM ATTACHMENT AT SIDE LAPS:

a. INTERIOR OF ROOF - SIDELAPS SHALL BE FASTENED WITH SPECIFIED SIDELAP CONNECTORS AT

b. EDGE/CORNER OF ROOF - SIDELAPS SHALL BE FASTENED WITH SPECIFIED SIDELAP CONNECTORS AT 15" SPACING.

SIDELAP FASTENERS: HILTI S-SLC 01 M HWH SIDELAP CONNECTORS OR APPROVED EQUAL. 6. REFER TO GEN. NOTES WIND LOAD SECTION FOR WIDTH OF EDGE/CORNER ZONES.

7. ROOF DECK SHALL HAVE Fy = 33 KSI UNLESS OTHERWISE NOTED.

DEMOLITION

1. REMOVE STRUCTURE FROM TOP DOWN. DO NOT ALLOW DEBRIS TO PILE UP OR FALL ON SLABS WHICH ARE TO REMAIN IN PLACE. PROVIDE PLYWOOD AND/OR PLANKING TO CUSHION AND PROTECT SLABS FROM DAMAGE. REPAIR OR REPLACE DAMAGED SLABS, BEAMS, OR GIRDERS AS

2. THESE DRAWINGS ARE INTENDED TO DEFINE LIMITS OF REMOVAL OF STRUCTURAL ELEMENTS AND

PRECAUTIONS TO BE TAKEN TO PREVENT DAMAGE TO STRUCTURE WHICH WILL REMAIN. 3. IF ANY ITEMS ARE ENCOUNTERED IN THE FIELD THAT ARE NOT SHOWN ON THE PLAN WHICH

REQUIRE DEMOLITION OR RELOCATION, THE CONTRACTOR SHALL NOTIFY THE EOR/ARCHITECT. 6. CONTRACTOR TO VERIFY ALL EXISTING CONDITIONS AND SUBMIT A WRITTEN REPORT TO THE ENGINEER FOR REVIEW AND/OR INSTRUCTION OF ACTUAL FIELD CONDITIONS, WHICH MAY VARY FROM INFORMATION, INDICATED ON DRAWINGS.

7. CONTRACTOR SHALL PROVIDE TEMPORARY SHORING AND BRACING OF EXISTING STRUCTURE AS REQUIRED, AS WELL AS PROTECT EXISTING FACILITIES, STRUCTURES AND THE PUBLIC DURING DEMOLITION AND ERECTION OF THE NEW CONSTRUCTION.

8. THE DETAILS AND ENGINEERING OF SHORING, BRACING AND OTHER CONSTRUCTION REQUIRED FOR SUCH WORK AND THE PHASING, STAGING, AND SEQUENCE OF SUCH OPERATION SHALL BE PREPARED IN THE FORM OF SHOP OR DETAIL SIGNED AND SEALED DRAWINGS BY A PROFESSIONAL ENGINEER, RETAINED BY THE CONTRACTOR OR SUB-CONTRACTOR. THE DRAWINGS SHALL BE PROVIDED TO THE REGISTERED ARCHITECT OR PROFESSIONAL ENGINEER RESPONSIBLE FOR THE INSPECTION OF SUCH WORK, WHO SHALL REPORT TO THE OWNER ANY DEVIATIONS OBSERVED DURING HIS INSPECTION.

9. THE CONTRACTOR IS REQUIRED TO PERFORM HIS/HER WORK IN A MANNER WHICH WILL NOT CONFLICT WITH ANY OPERATION WHICH IS TO REMAIN FUNCTIONAL DURING THE COURSE OF THE PROJECT, UNTIL SUCH OPERATION IS SCHEDULED TO SHUT DOWN.

10. THE CONTRACTOR IS REQUIRED TO COORDINATE WITH OWNER FOR THE TEMPORARY SUSPENSION OF USE OF ANY UTILITY SYSTEM A MINIMUM OF 3 DAYS PRIOR TO COMMENCING

11. CUT THROUGH EXISTING STRUCTURE IN STRAIGHT AND TRUE LINES TO INSURE A NEAT INTERFACE, AT ALL LOCATIONS WHERE NEW CONSTRUCTION WILL INTERFACE WITH EXISTING ELEMENTS. 12. INSTALL ALL REQUIRED TEMPORARY AND/OR PERMANENT BRACING AND SUPPORTS BEFORE

DEMOLISHING ANY STRUCTURAL ELEMENT,. 13. UPON COMPLETION OF NEW CONSTRUCTION UNDER EACH PHASE, ALL DEMOLISHED AREAS SHALL BE RESTORED TO ACCEPTABLE USAGE ACCORDING TO THE CONTRACT DOCUMENTS AS

DETERMINED BY THE ARCHITECT AND/OR ENGINEER.

14. ALL DEBRIS GENERATED BY THE DEMOLITION WORK SHALL BE REMOVED FROM THE SITE AND DISPOSED AS THE WORK PROGRESSES.

EXISTING STRUCTURE

INFORMATION SHOWN ON THE DRAWINGS WAS TAKEN FROM THE FOLLOWING PROJECT DRAWINGS:

 ORANGE COUNTY LANDFILL OPERATIONS AND MAINTENANCE COMPLEX, PREPARED BY ARCHITECTS DESIGN GROUP, INC., DATED 6/13/1994.

WORK SHOWN (INCLUDING, BUT NOT LIMITED TO DIMENSIONS, ELEVATIONS, MEMBER SIZES MATERIALS, DETAILS ETC.) ON THE DRAWINGS ASSUMES THAT THE ORIGINAL CONSTRUCTION WAS PERFORMED IN ACCORDANCE WITH THE ABOVE INDICATED ORIGINAL DRAWINGS IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE CONDITIONS RELATING TO THE EXISTING STRUCTURE AND NOTIFY THE ENGINEER IMMEDIATELY OF ANY DISCREPANCIES OR CONFLICTS. SHOP DRAWINGS SHALL REFLECT FIELD VERIFIED INFORMATION AND RESOLUTION OF ANY CONFLICTS WITH THE ENGINEER.

SUBMITTALS

1. THE GENERAL CONTRACTOR SHALL PREPARE A DETAILED LIST AND SCHEDULE OF ALL SUBMITTAL ITEMS TO BE SENT TO THE STRUCTURAL ENGINEER PRIOR TO THE START OF CONSTRUCTION.

GENERAL CONTRACTORS SHALL REVIEW AND STAMP ALL SHOP DRAWINGS BEFORE SUBMITTING FOR REVIEW. SHOP DRAWINGS SHALL BE SUBMITTED TO THE ARCHITECT AND/OR ENGINEER AND HAVE THE ENGINEER'S SHOP DRAWING APPROVAL STAMP AFFIXED PRIOR TO FABRICATION. FABRICATION AND ERECTION SHALL BE FROM REVIEWED SHOP DRAWINGS.

A RECORD SET OF APPROVED SHOP DRAWINGS SHALL BE KEPT IN THE FIELD BY THE GENERAL CONTRACTOR.

ANY DEVIATION FROM, ADDITION TO, SUBSTITUTION FOR, OR MODIFICATION TO THE STRUCTURE OR ANY PART OF THE STRUCTURE DETAILED ON THE CONTRACT DOCUMENTS SHALL BE SUBMITTED IN WRITING TO THE ENGINEER FOR REVIEW. SHOP DRAWINGS SUBMITTED FOR REVIEW DO NOT CONSTITUTE "IN-WRITING" UNLESS IT IS CLEARLY NOTED THAT SPECIFIC CHANGES ARE BEING SUGGESTED.

THE CONTRACTOR SHALL PREPARE A LIST AND SCHEDULE OF ALL STRUCTURAL SUBMITTALS PRIOR TO CONSTRUCTION.

THE OMISSION FROM THE SHOP DRAWINGS OF ANY MATERIALS REQUIRED BY THE CONTRACT DOCUMENTS TO BE FURNISHED SHALL NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY OF FURNISHING AND INSTALLING SUCH MATERIALS, REGARDLESS OF WHETHER THE SHOP DRAWINGS HAVE BEEN REVIEWED AND APPROVED.

7. THE USE OF ELECTRONIC FILES OR REPRODUCTIONS OF THESE CONTRACT DOCUMENTS BY ANY CONTRACTOR, SUBCONTRACTOR, ERECTOR, FABRICATOR, OR MATERIAL SUPPLIER IN LIEU OF PREPARATION OF SHOP DRAWINGS SIGNIFIES THEIR ACCEPTANCE OF ALL INFORMATION SHOWN HEREON AS CORRECT, AND OBLIGATES THEMSELVES TO ANY JOB EXPENSE, REAL OR IMPLIED, RISING DUE TO ANY ERRORS THAT MAY OCCUR HEREON.

8. REQUEST FOR INFORMATION (RFI) SHALL BE ORIGINATED BY THE CONTRACTOR AND SHALL BE SUBMITTED TO THE ENGINEER VIA ARCHITECT OR DIRECTLY TO ENGINEER WHEN APPROVED BY ARCHITECT. RFI SHALL BE SUBMITTED IN A PROMPT MANNER TO AVOID DELAYS IN THE CONTRACTOR'S WORK.

9. RFI RESPONSES ARE NOT INTENDED TO AUTHORIZE ANY INCREASE IN CONSTRUCTION COST, SCHEDULE OR CONFLICT WITH APPLICABLE STANDARDS OR CODES. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO NOTIFY DESIGN TEAM IMMEDIATELY OF ANY PERCEIVED COST, SCHEDULE OR SCOPE IMPACTS.

10. SUBMITTALS BY THE CONTRACTOR ARE NOT A PART OF THE CONTRACT DOCUMENTS. 11. CONTRACTOR SHALL DIRECT SPECIFIC ATTENTION ON THE SUBMITTAL TO ANY DEVIATION FROM THE CONTRACT DOCUMENTS. CONTRACTOR SHALL STAMP AND SIGN SHOP DRAWINGS AND

PRODUCT DATA, AND SIGN OR INITIAL EACH SAMPLE TO CERTIFY COMPLIANCE WITH REQUIREMENTS OF CONTRACT DOCUMENTS. SUBMITTALS RECEIVED WITHOUT THE CONTRACTOR'S STAMP OF REVIEW WILL BE RETURNED TO THE CONTRACTOR FOR REVIEW AND RESUBMITTAL

12. WORK REQUIRING SHOP DRAWINGS, WHETHER CALLED FOR BY THE CONTRACT DOCUMENTS OR REQUESTED BY THE CONTRACTOR, SHALL NOT COMMENCE UNTIL THE SUBMISSION HAS BEEN REVIEWED BY THE DESIGN PROFESSIONAL. WORK MAY COMMENCE IF THE CONTRACTOR VERIFIES THE ACCURACY OF THE DESIGN PROFESSIONAL'S CORRECTIONS AND NOTATIONS AND COMPLIES WITH THEM WITHOUT EXCEPTION AND WITHOUT REQUESTING CHANGE IN CONTRACT SUM OR CONTRACT TIME. A COPY OF THE MARKED STRUCTURAL SHOP DRAWINGS WITH THE DESIGN

PROFESSIONAL'S REVIEW STAMP IS TO BE MAINTAINED AT THE JOB SITE. 13. THE FOLLOWING SHOP DRAWINGS SHALL BE SUBMITTED BY THE CONTRACTOR FOR THE

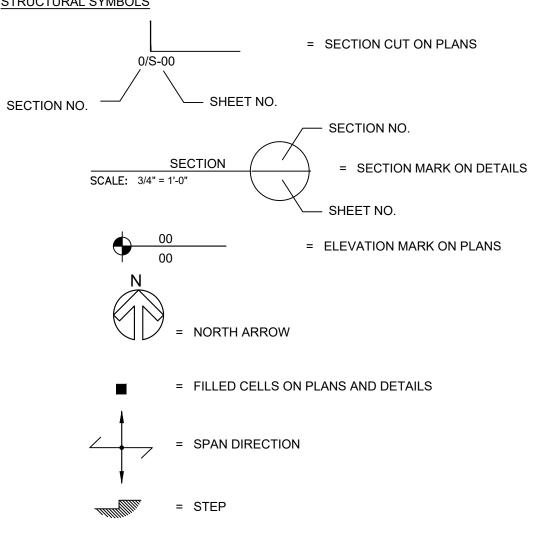
ENGINEER'S REVIEW: MISCELLANEOUS STEEL

> STRUCTURAL STEEL, SHOP AND ERECTION DRAWINGS. STRUCTURAL DECK. SHOP AND ERECTION DRAWINGS.

TO THE BEST OF THE ENGINEER'S KNOWLEDGE, THE PLANS AND SPECIFICATIONS COMPLY WITH THE FLORIDA BUILDING CODE 2017

A.B. A.C.I. A.I.S.C. BOTT. C or CL C.J. C.M.U. COL CONC CONC CONT DIA DWG DWL EA. E.F. E.J. EL. EQ. E.W. EXT GA. GALV	ANCHOR BOLT AMERICAN CONCRETE INSTITUTE AMERICAN INSTITUTE OF STEEL CONSTRUCTION BOTTOM CENTERLINE CONSTRUCTION JOINT OR CONTROL JOINT CONCRETE MASONRY UNIT COLUMN CONCRETE CONTINUOUS DIAMETER DRAWING DOWEL EACH EACH FACE EXPANSION JOINT ELEVATION EQUAL EACH WAY EXTERIOR GAGE, GAUGE GALVANIZE	HORIZ JT LSH LSV L.S.H. MAX MECH MIN. NTS O.C. OPNG OPP P. or PL P.S.F. P.S.I. REINF REQ'D STL STD U.N.O. VERT WWR W/	HORIZONTAL JOINT LONG SIDE HORIZONTAL LONG SIDE VERTICAL LONG SLOTTED HOLES MAXIMUM MECHANICAL MINIMUM NOT TO SCALE ON CENTER OPENING OPPOSITE PLATE POUNDS PER SQUARE FOOT POUNDS PER SQUARE INCH REINFORCE(D) (ING) REQUIRED STEEL STANDARD UNLESS NOTED OTHERWISE VERTICAL WELDED WIRE REINFORCEMENT WITH
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STRUCTURAL SYMBOLS

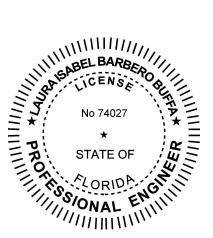


= MOMENT CONNECTION

REVISION MARK



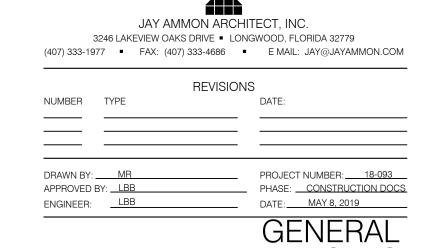
CERTIFICATE OF AUTHORIZATION No. 27343 LAURA BARBERO-BUFFA, P.E. No. 74027 1214 EAST CONCORD STREET ORLANDO, FLORIDA 32803 P: 407.377.7227



CONSTRUCTION DOCUMENTS ORANGE COUNTY GOVERNMENT SOLID WASTE ADMINISTRATION BUILDING ORLANDO, FLORIDA

PROJECT NUMBER: 18-093

ROOFING REPLACEMENT PROJECT



SHEET

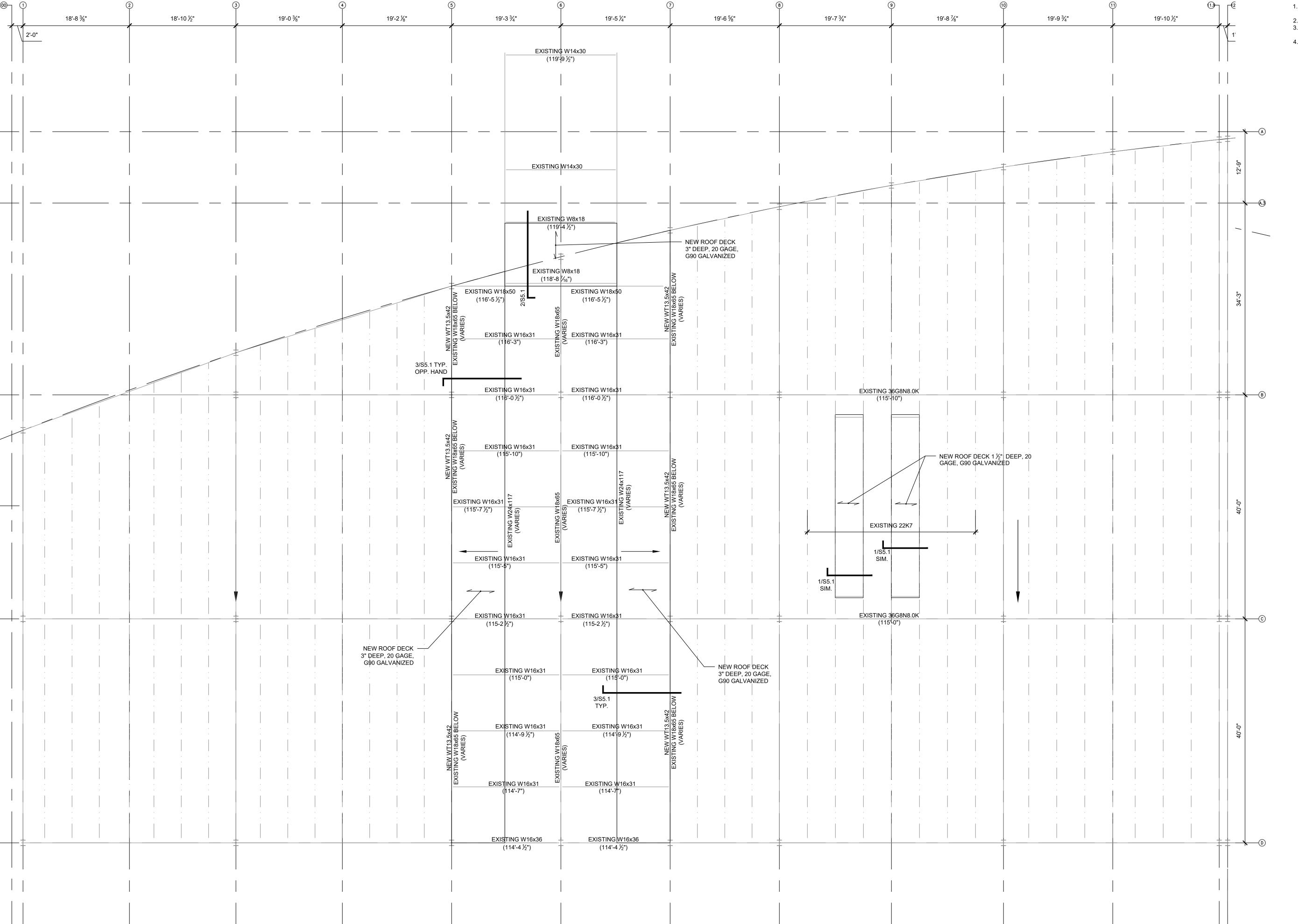
PLOT: N.T.S.

ROOF FRAMING NOTES

- 1. SEE GENERAL NOTES AND SPECIFICATIONS FOR
- TOP OF STEEL ELEVATIONS INDICATED AS (X'-X").
 COORDINATE WITH ARCH. DRAWINGS. SEE ARCH.
- DRAWINGS FOR REQUIRED SLOPES.

ADDITIONAL INFORMATION.

4. GC TO FIELD VERIFY ALL DIMENSIONS AND ELEVATIONS PRIOR TO SHOP DRAWINGS AND STEEL FABRICATION.





CERTIFICATE OF AUTHORIZATION No. 27343 LAURA BARBERO-BUFFA, P.E. No. 74027 1214 EAST CONCORD STREET ORLANDO, FLORIDA 32803 P: 407.377.7227



CONSTRUCTION DOCUMENTS ORANGE COUNTY GOVERNMENT SOLID WASTE ADMINISTRATION BUILDING ORLANDO, FLORIDA

ROOFING REPLACEMENT PROJECT PROJECT NUMBER: 18-093

JAY AMMON ARCHITECT, INC. 3246 LAKEVIEW OAKS DRIVE . LONGWOOD, FLORIDA 32779 (407) 333-1977 • FAX: (407) 333-4686 • E MAIL: JAY@JAYAMMON.COM

		REVISION	IS	
NUMBER	TYPE		DATE:	
DRAWN BY:	MR		PROJECT NUMBER:_	18-093
APPROVED	BY: <u>LBB</u>		PHASE: CONSTRUC	CTION DOCS

ENGINEER: LBB DATE: MAY 8, 2019

PLOT: N.T.S. SHEET

TO THE BEST OF THE ENGINEER'S KNOWLEDGE, THE PLANS AND SPECIFICATIONS COMPLY WITH THE FLORIDA BUILDING CODE 2017

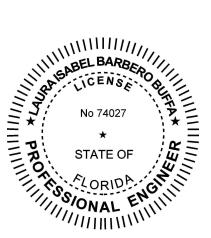
ROOF FRAMING NOTES

- 1. SEE GENERAL NOTES AND SPECIFICATIONS FOR

- SEE GENERAL NOTES AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.
 TOP OF STEEL ELEVATIONS INDICATED AS (X'-X").
 COORDINATE WITH ARCH. DRAWINGS. SEE ARCH. DRAWINGS FOR REQUIRED SLOPES.
 GC TO FIELD VERIFY ALL DIMENSIONS AND ELEVATIONS PRIOR TO SHOP DRAWINGS AND STEEL FABRICATION.



CERTIFICATE OF AUTHORIZATION No. 27343 LAURA BARBERO-BUFFA, P.E. No. 74027 1214 EAST CONCORD STREET ORLANDO, FLORIDA 32803 P: 407.377.7227



CONSTRUCTION DOCUMENTS ORANGE COUNTY GOVERNMENT SOLID WASTE ADMINISTRATION BUILDING ORLANDO, FLORIDA ROOFING REPLACEMENT PROJECT

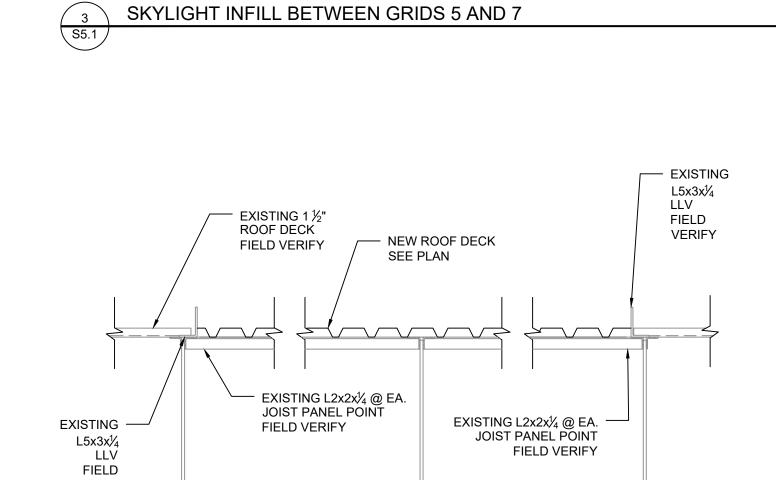
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		REVISIONS
NUMBER	TYPE	DATE:
DRAWN BY:	MR	PROJECT NUMBER: 18-093
APPROVED	RY· LBB	PHASE: CONSTRUCTION DOC

ENGINEER: LBB DATE: MAY 8, 2019 PARTIAL ROOF FRAMING

PLOT: N.T.S. SHEET



EXISTING 6" DECK — FIELD VERIFY

REMOVE EXISTING BENT PLATE AND ——

REQUIRED TO ATTACH NEW DECK.

PROVIDE DECK CLOSURE PLATE AT

NOTES:
1. COORD. W/ARCH DRAWINGS.

NOTE:

1. NO INTERMEDIATE JOIST AT SIM. CONDITION.

SKYLIGHT INFILL OVER JOISTS

VERIFY

CUT BACK EXISTING DECK AS

BOTH DECK EDGES

3. PROVIDE 1 ½" MIN. BEARING AND ENDS OF DECK.

NEW ROOF DECK

NEW ROOF DECK —

SEE PLAN

NEW WT13.5x42 ----

SEE PLAN

- SHIM AS

GC TO FIELD VERIFY EXISTING TOP OF STEEL ELEVATIONS PRIOR TO SHOP DRAWING SUBMITTAL AND STEEL FABRICATION. ANY DISCREPANCIES ARE TO BE REPORTED TO EOR.

JOISTS

FIELD VERIFY

REQUIRED

EXISTING W24x117 FIELD VERIFY

> SHIM AS REQUIRED L3x3x½ CONT. - EXISTING W8x18 FIELD VERIFY EXISTING W24x117 -

FIELD VERIFY

ARE TO BE REPORTED TO EOR. 4. PROVIDE 1 ½" MIN. BEARING AND ENDS OF DECK.

FIELD VERIFY - NEW ROOF DECK SEE PLAN

 EXISTING 6" DECK FIELD VERIFY EXISTING W8x18 -- PROVIDE DECK CANTILEVER FIELD VERIFY EXISTING W18x50 —

- EXISTING W18 FIELD VERIFY

SCALE: 3/4" = 1'-0"

PRIOR TO SHOP DRAWING SUBMITTAL AND STEEL FABRICATION. ANY DISCREPANCIES ARE TO BE REPORTED TO EOR.

COORD. W/ARCH DRAWINGS.
 GC TO FIELD VERIFY EXISTING TOP OF STEEL ELEVATIONS AND ALL DIMENSIONS

EXISTING 20K JOIST -FIELD VERIFY

— NEW ROOF DECK `

SEE PLAN

EXISTING 3 ½" DEEP

JOIST EXTENSION

FIELD VERIFY

C6x8.2 CHANNEL

EXISTING W16x31 — FIELD VERIFY

- REMOVE EXISTING

3. PROVIDE 1 ½" MIN. BEARING AND ENDS OF DECK.

SKYLIGHT INFILL AT GRID A.3

FIELD VERIFY

REMOVE EXISTING C6x8.2 CHANNEL AND ——

3/16

MEW L3x3x1/4 CONT.

REQUIRED TO INSTALL NEW DECK

L3x3, AND CUT EXISTING DECK BACK AS

EXISTING 6" DECK -

NOTES:

1. COORD. W/ARCH DRAWINGS.

2. SEE PLAN FOR TOP OF STEEL ELEVATIONS.

3. GC TO FIELD VERIFY EXISTING TOP OF STEEL ELEVATIONS AND ALL DIMENSIONS PRIOR TO SHOP DRAWING SUBMITTAL AND STEEL FABRICATION. ANY DISCREPANCIES

SCALE: 3/4" = 1'-0"

SKYLIGHT INFILL OVER JOISTS

SCALE: 3/4" = 1'-0"

SCALE: N.T.S.

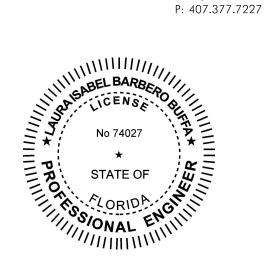
- PROVIDE DECK CLOSURE PLATE

EXISTING 1 ½" ROOF DECK

FIELD VERIFY



CERTIFICATE OF AUTHORIZATION No. 27343 LAURA BARBERO-BUFFA, P.E. No. 74027 1214 EAST CONCORD STREET ORLANDO, FLORIDA 32803



CONSTRUCTION DOCUMENTS ORANGE COUNTY GOVERNMENT SOLID WASTE ADMINISTRATION BUILDING ORLANDO, FLORIDA

ROOFING REPLACEMENT PROJECT PROJECT NUMBER: 18-093

		REVISI	IONS		
NUMBER	TYPE		DAT	E:	

SHEET

PLOT: AS NOTED