STATE OF RHODE ISLAND

MASONRY RESTORATION & ROOF REPLACEMENT

AT THE

ARMORY OF MOUNTED COMMANDS

1051 NORTH MAIN STREET

PROVIDENCE, RHODE ISLAND 02904

FOR THE

RHODE ISLAND ARMY NATIONAL GUARD

MG CHRISTOPHER P. CALLAHAN

ADJUTANT GENERAL

CONSTRUCTION & FACILITIES
MANAGEMENT OFFICE
RHODE ISLAND ARMY NATIONAL GUARD
705 NEW LONDON AVENUE
CRANSTON, RHODE ISLAND 02920

February 28, 2019
(RE-BID)

WILLIAM STARCK ARCHITECTS, INC.
126 COVE STREET
FALL RIVER MASSACHUSETTS, 02720

10 DORRANCE STREET, SUITE 700
PROVIDENCE, RI 02903

LOCUS MAP

LIST OF DRAWINGS

CS	COVER SHEET
A1.0	GENERAL NOTES, LEGEND AND ABBREVIATIONS
A1.1	EXISTING/DEMOLITION/NEW ROOF PLAN-(HEAD SHED) & GENERAL ROOF NOTES
A3.0	EXISTING/NEW EAST AND WEST EXTERIOR ELEVATIONS (HEAD SHED)
A3.1	EXISTING/NEW NORTH AND SOUTH EXTERIOR ELEVATIONS (HEAD SHED)
A5.0	ROOF DETAILS
A5.1	ROOF DETAILS

BUILDING CODE ANALYSIS

PROJECT SUMMARY

THIS RE-ROOFING AND MASONRY RESTORATION PROJECT ENTAILS THE REMOVAL OF AN EXISTING DETERIORATED ROOF ASSEMBLY AND THE INSTALLATION OF A NEW PVC ROOF ASSEMBLY USING FLAT STOCK INSULATION IN LOCATIONS IDENTIFIED ON SHEET A1.1. IT ALSO PROVIDES THE RESTORATION AND RE-POINTING OF EXISTING MASONRY IN LOCATIONS IDENTIFIED ON SHEETS A3.0 AND A3.1.

THIS CODE ANALYSIS HAS BEEN PREPARED USING THE:

	2012 EDITION OF THE INTERNATIONAL BUILDING CODE
	2012 EDITION OF THE INTERNATIONAL ENERGY CONSERVATION CODE
	RHODE ISLAND STATE BUILDING CODE, 11TH EDITION (RISBC-1-2013)
	RHODE ISLAND STATE ENERGY CONSERVATION CODE, 6TH EDITION (RISBC-8-2013)
	RHODE ISLAND STATE REHABILITATION BUILDING AND FIRE CODE FOR EXISTING BUILDINGS AND STRUCTURES (RISRC-1-2002)
JURISDICTION:	CITY OF PROVIDENCE, RHODE ISLAND (PROVIDENCE COUNTY)

CODE SUMMARY

CODE SECTION/DESC.	ALLOWABLE QUANTITY	ACTUAL QUANTITY
CHAPTER 13: ENERGY EFFICIENCY	SEE SUMMARY THIS SHEET	
CHAPTER 15: ROOF ASSEMBLIES	EXCEPTION: RE-ROOFING SHALL NOT BE REQUIRED TO MEET THE MINIMUM DESIGN SLOPE REQUIREMENTS OF ONE FOURTH UNIT VERTICAL IN 12 UNITS HORIZONTAL (2-PERCENT SLOPE) IN SECTION 1507 FOR ROOF THAT PROVIDE POSITIVE DRAINAGE. ACTUAL SLOPE WILL BE ONE UNIT VERTICAL IN 12 UNITS HORIZONTAL.	
SECTION 1510.1		
RHODE ISLAND SRC-1-2002	ALL NEW WORK SHALL CONFORM TO THE CODE FOR NEW CONSTRUCTION. REFER TO RHODE ISLAND STATE REHABILITATION BUILDING AND FIRE CODE FOR EXISTING BUILDINGS AND STRUCTURES CODE SUMMARY ON THIS SHEET.	

NOTE: THE PROPOSED SCOPE OF WORK IS FOR THE RE-ROOFING AND MASONRY RESTORATION PROJECT OUTLINED IN THE PROJECT SPECIFICATIONS AND THESE CONSTRUCTION DOCUMENTS. ANY DEVIATION OR CHANGES FROM THE DESIGN INDICATED IN THE CONTRACT DOCUMENTS PREPARED BY WSA SHALL BE REVIEWED WITH THE ARCHITECT AND THE RHODE ISLAND ARMY NATIONAL GUARD PRIOR TO THE INITIATION OF ANY CHANGES.

CHAPTER 13 SUMMARY

BASED ON RISBC-8 STATE ENERGY CONSERVATION CODE (6TH EDITION)

CHAPTER 3 (CE): CLIMATE ZONES			
CLIMATE ZONES	RHODE ISLAND FALLS WITHIN CLIMATE ZONE - 5A		
CHAPTER 4 (CE): COMMERCIAL ENERGY EFFICIENCY			
OPAQUE THERMAL ENVELOPE REQUIREMENTS	ROOF:		
TABLE C402.2		INSULATION ENTIRELY ABOVE EXISTING WOOD ROOF DECK	R-25 CI
		ATTIC AND OTHER	N/A
	WALLS, ABOVE GRADE - NOT APPLICABLE		
	FLOORS - NOT APPLICABLE		
	OPAQUE DOORS - NOT APPLICABLE		
BUILDING ENVELOPE REQUIREMENTS - FENESTRATION	NOT APPLICABLE		

RHODE ISLAND STATE REHABILITATION BUILDING & FIRE CODE FOR EXISTING BUILDINGS & STRUCTURES CODE SUMMARY

CODE SECTION	DESCRIPTION
CLASSIFICATION OF WORK	PER SECTION 301.0, THE SCOPE OF WORK QUALIFIES AS A REPAIR AND SHALL COMPLY WITH THE PROVISIONS OF CHAPTER 3 AND CHAPTER 9 FOR HISTORICAL BUILDINGS.
CHAPTER 3	
REQUIREMENTS:	ALL WORK SHALL BE DONE USING LIKE MATERIALS, OR MATERIALS PERMITTED AND COMPLY WITH METHODS REQUIREMENTS IN THE INTERNATIONAL BUILDING CODE AND INTERNATIONAL ENERGY CONSERVATION CODE, AS APPLICABLE.
SECTION 302.0	
STRUCTURAL	REPAIRS OF ANY STRUCTURAL ELEMENTS SHALL COMPLY WITH THIS SECTION. THE WORK SHALL CAUSE NO DIMINUTION OF STRUCTURAL STRENGTH. THE WORK SHALL NOT MAKE THE BUILDING LESS CONFORMING WITH THE APPLICABLE BUILDING CODES - NO ADDITIONAL LOADS ARE BEING ADDED TO THE ROOF STRUCTURE.
SECTION 302.3	
RE-ROOFING	RE-ROOFING SHALL COMPLY WITH SECTION 403.2.1 OF THIS CODE. B
SECTION 302.3.8	
PLUMBING	PLUMBING MATERIALS AND SUPPLIES SHALL NOT BE USED UNLESS SPECIFICALLY ALLOWED BY THE CURRENT PLUMBING CODE.
SECTION 302.4	
ELECTRICAL	EXISTING ELECTRICAL WIRING AND EQUIPMENT UNDERGOING REPAIR SHALL BE ALLOWED TO BE REPAIRED OR REPLACED WITH LIKE MATERIAL. B
SECTION 302.5	
MECHANICAL	NOT APPLICABLE.
SECTION 302.6	

GENERAL NOTES

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL MATERIALS AND EQUIPMENT/ APPURTENANCES, AND MAINTAINING SAFE CONDITIONS WITHIN THE PROPOSED CONSTRUCTION AREA. THE CONTRACTOR SHALL DESIGN AND INSTALL ADEQUATE SHORING AND BRACING FOR ALL STRUCTURAL OR REMOVAL TASKS. THE CONTRACTOR SHALL ASSUME SOLE RESPONSIBILITY FOR ANY DAMAGES & INJURIES RESULTING FROM AND DURING THE EXECUTION OF THE WORK.

2. THE CONTRACTOR SHALL COORDINATE ALL WORK WITH THE OWNER, HIS SUBCONTRACTORS & APPLICABLE DISCIPLINES.

3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVAL OF ALL DEBRIS FROM SITE; REMOVE AND DISPOSE DAILY.

4. THE CONTRACTOR SHALL NOT SEPARATE CONSTRUCTION DOCUMENTS FOR DISTRIBUTION TO SUBCONTRACTORS. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING AND "CROSS-REFERENCING" DRAWINGS & SECTIONS OF THE PROJECT MANUAL.

5. CONTRACTORS SHALL VISIT THE SITE AND CAREFULLY EXAMINE THE AREAS IN QUESTION AS TO CONDITIONS WHICH MAY ADVERSELY AFFECT PROPER EXECUTION OF THE WORK. ALL DIMENSIONS AND QUANTITIES SHALL BE DETERMINED OR VERIFIED BY THE CONTRACTOR. NO CLAIMS FOR EXTRA COSTS WILL BE ALLOWED BECAUSE OF LACK OF FULL KNOWLEDGE OF THE EXISTING CONDITIONS UNLESS AGREED TO IN ADVANCE WITH THE OWNER &/OR ARCHITECT.

6. ALTHOUGH NOTES HEREIN MAY READ "REMOVE AND DISPOSE", OWNER SHALL HAVE FIRST RIGHT OF REFUSAL OF ALL FURNISHINGS, MATERIALS, EQUIPMENT, ETC. IF OWNER DECIDES TO KEEP ITEMS, CONTRACTOR SHALL CAREFULLY REMOVE ITEM AND STORE AS DIRECTED BY THE OWNER. ALL OTHER ITEMS SHALL BE DISPOSED OF IN A PROPER MANNER AND AS APPROVED BY THE ARCHITECT.

7. REFER TO CONTRACTOR'S UNIT COSTS AND ALTERNATES IN THE PROJECT MANUAL, IF APPLICABLE.

8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL DEMOLITION REQUIRED FOR A COMPLETE AND PROPER JOB, WHETHER OR NOT REFERENCE IS MADE BY WAY OF NOTES AND DESIGNATIONS.

9. ALL WORK SHALL COMPLY WITH OSHA, FEDERAL, STATE BUILDING, AND FIRE AND LIFE/SAFETY CODES, WHICHEVER IS MOST STRINGENT.

10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VISITING THE SITE AND EXAMINING THE EXISTING SYSTEMS, MATERIALS, EQUIPMENT AND OTHER RELATED ITEMS OF WORK PRIOR TO SUBMITTING BID AND PRIOR TO CONSTRUCTION.

11. THE CONTRACTOR SHALL CHECK ALL DIMENSIONS AND ACCEPT RESPONSIBILITY FOR DIMENSIONAL CORRECTNESS.

12. THE CONTRACTOR SHALL CONFINE HIS OPERATIONS TO THE AREA(S) DESIGNATED BY THE OWNER.

13. REPAIR/RESTORE, TO ORIGINAL/NEW CONDITION, AT NO COST TO THE OWNER, ALL EXISTING ITEMS, MATERIALS, SURFACES, ETC. (INCLUDING AREAS NOT DESIGNATED FOR NEW CONSTRUCTION SHOWN ON THE DRAWINGS) WHICH ARE DAMAGED DURING CONSTRUCTION. ALL RELATED COSTS SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.

14. GRADE AND RE-SEED ALL LAWN AREAS DAMAGED DURING CONSTRUCTION. PROVIDE NEW GRASS SEED AND /OR SOD AT ALL DAMAGED LAWN AREAS AND OTHER AREAS WHICH MAY BE SHOWN OR DESCRIBED ON THE CONTRACT DOCUMENTS. PROVIDE MAINTENANCE AND WATERING, A MINIMUM OF TWICE PER DAY FOR A MINIMUM OF 60 DAYS, OR UNTIL THE OWNER AND/OR ARCHITECT ACCEPTS THE LAWN AREAS, IN WRITING.

15. REPAIR EXISTING PAVING AND CURBING DAMAGED BY THIS CONTRACTOR DURING CONSTRUCTION. SAW-CUT EXISTING PAVING FOR CONTINUITY MATCH.

16. ANY WORK WHICH DEVIATES FROM THAT SPECIFIED IN THE CONTRACT DOCUMENTS, CHANGED BY THE CONTRACTOR, INVOLVING THE SUBSTITUTION OF MATERIALS/EQUIPMENT SHALL BE THE SOLE RESPONSIBILITY OF THE GENERAL CONTRACTOR.

17. COORDINATE WITH OWNER, WORK AT BUILDING ENTRANCES AND MEANS OF EGRESS AND PARKING AREAS ADJACENT TO THE BUILDING. BUILDING AND SITE WILL BE OCCUPIED DURING CONSTRUCTION. CONTRACTOR SHALL PROVIDE ADEQUATE SIGNAGE TO DIRECT PEDESTRIAN TRAFFIC TO ALTERNATE ROUTES.

18. DELAYS CAUSED BY IMPROPER PLANNING WILL NOT BE TOLERATED, NOR ACCEPTABLE. CONTRACTOR SHALL ASSUME SOLE RESPONSIBILITY FOR UNNECESSARY DELAYS IN THE CONTRACT.

19. CONTRACTOR SHALL ENSURE ADEQUATE DUST-CONTROL MEASURES, SUCH AS, BUT NOT LIMITED TO POLYETHYLENE SHEETING/ TAPING, TEMPORARY PARTITIONING, ETC. ARE PRACTICED FOR THE DURATION OF THE PROJECT. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CLEANING MEASURES, TO RESTORE SUCH AREAS TO ORIGINAL/ NEW CONDITION.

20. CONTRACTOR SHALL NOT PROCEED WITH ANY ADDITIONAL WORK ABOVE AND BEYOND THAT SPECIFIED IN THESE CONTRACT DOCUMENTS WITHOUT THE WRITTEN AUTHORIZATION OF THE ARCHITECT. CONTRACTOR SHALL OTHERWISE DO SO AT HIS OWN EXPENSE.

21. CONTRACTOR SHALL PROVIDE AND MAINTAIN TEMPORARY VISUAL AND PROTECTIVE PARTITIONS AROUND CONSTRUCTION AS MAY BE NECESSARY TO ASSURE THE SAFETY OF ALL PERSONS AUTHORIZED OR UNAUTHORIZED. ALL PARTITIONS ARE TO BE CONSTRUCTED AS REQUIRED BY LOCAL, STATE, AND FEDERAL LAWS, CODES OR REGULATIONS .

22. STRUCTURAL MEMBERS SHALL NOT BE MODIFIED IN THE FIELD WITHOUT WRITTEN APPROVAL FROM THE ARCHITECT. IN THE EVENT OF A CONSTRUCTION OR FABRICATION ERROR, THE CONTRACTOR SHALL PREPARE A SKETCH WITH A PROPOSED REPAIR, AND SUBMIT IT TO THE ARCHITECT FOR APPROVAL PRIOR TO PERFORMING ANY CORRECTIVE WORK.

LEGEND

NEW WALK TREAD SYSTEM

INDICATES DIRECTION OF TAPERED INSULATION PITCH (UNLESS OTHERWISE NOTED)

SECTION — A / A1.2 — DRAWING No. — SECTION OR ELEVATION DESIGNATION

DETAIL — A / A1.2 — DRAWING No. — DETAIL DESIGNATION

ABBREVIATIONS

REFER TO PERTINENT DETAILS HEREIN
(NOT ALL MAY APPLY)

CU	=	CONDENSING UNIT	P.P.	=	PITCH POCKET
CURB	=	ROOF CURB ONLY (RTU PREVIOUSLY REMOVED)	R.H.	=	ROOF HATCH
			R.D.	=	ROOF DRAIN
DS.	=	DOWNSPOUT	R.S.	=	ROOF SCUPPER
E.F.	=	EXHAUST FAN	RT.U.	=	ROOFTOP UNIT
EPL	=	ELEVATOR PENTHOUSE LOUVER	R.V.	=	ROOF VENT
			SB	=	SPLASH BLOCK
EVH	=	EXHAUST VENT HOOD	S.H	=	SMOKE HATCH
FDM	=	FIRE DEPARTMENT MANIFOLD	SP	=	STAND PIPE
H.S.	=	HEAT STACK	SV	=	SMOKE VENT
LP	=	LIGHTNING PROTECTION SYSTEM	VS	=	VENT STACK
			WD.	=	WOOD
P.T.	=	PRESSURE TREATED	T.O.E	=	TENANT-OWNED EQUIPMENT

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REVISIONS:

SCALE:	AS NOTED
DATE:	02/28/2019
DRAWN BY:	GCN/PMA
JOB NUMBER:	15-135

DRAWING NAME:
GENERAL NOTES, LEGEND & ABBREVIATIONS

DRAWING NUMBER:
A1.0
SHEET 1 OF 6

COMMENTS:
ISSUED FOR BID

ASBESTOS NOTE:
G.C. SHALL PROVIDE ABATEMENT OF ASBESTOS AS DESCRIBED IN THE ABATEMENT PLAN FOUND IN THE SPECIFICATIONS.

NOTE:
G.C. SHALL INSPECT AND REPLACE ALL DETERIORATED WOOD ROOF DECKING AS REQUIRED (INCLUDE 500 SQ FT. IN THE BASE BID) WITH NEW WOOD DECKING TO MATCH EXISTING. ASSUME 2-1/4" THICK DECKING TO BE UTILIZED.

NOTE:
G.C. SHALL REPLACE ALL SHEATHING BEHIND EXISTING ROOF MEMBRANE AT PARAPET WALLS WITH NEW EXTERIOR GRADE SHEATHING TO MATCH EXISTING AND SECURE SHEATHING TO EXISTING MASONRY PARAPET WALLS. ASSUME 3/4" THICK SHEATHING TO BE UTILIZED.

ALTERNATE #1 (SEE KEY PLAN BELOW FOR LOCATION):
G.C. SHALL REMOVE AND DISPOSE OF EXISTING CONCRETE WALKWAY BETWEEN MAIN BUILDING ENTRANCE EXTERIOR STAIRS IN ITS ENTIRETY. PROVIDE NEW 5" CONCRETE SLAB REINFORCED WALKWAY W/ 6X6-W2.9XW2.9 W.W.F. (MID-DEPTH) ON 8" COMPACTED GRAVEL ON COMPACTED EARTH. PROVIDE CONTINUOUS 1/2" TWO-PART URETHANE EXPANSION JOINT (EXP. BOARD & SEALANT) SPACED 20' MAXIMUM & AT ALL EXISTING/NEW CONCRETE ABUTMENTS. SURFACE FINISH SHALL BE "BROOMED", PERPENDICULAR TO DIRECTION OF TRAVEL. PROVIDE SMOOTH FINISH AT ALL TOOLED JOINTS. RESTORE (LOAM, FINISH GRADE & GRASS SEED) EXISTING LANDSCAPE TO ORIGINAL/NEW CONDITION.

ANTENNA NOTE #1:
G.C. SHALL EMPLOY AND INCUR ALL ASSOCIATED COSTS WITH ENLISTING A CERTIFIED/LICENSED PROFESSIONAL ANTENNA INSTALLER TO PERFORM/SUPERVISE ALL WORK DIRECTLY ASSOCIATED WITH THE EMERGENCY ANTENNA. CERTIFIED ANTENNA PROFESSIONAL SHALL PERFORM ALL OF THE DISCONNECTIONS AND RE-CONNECTIONS OF ANTENNAS AS NECESSARY. G.C. SHALL CONSULT AND COORDINATE ALL WORK WITH OWNER PRIOR TO COMMENCING WORK. CONTRACTOR'S ANTENNA VENDOR SHALL BE EXPERIENCED IN THE ERECTION OF MAST ANTENNA SYSTEMS, AND/OR REGULARLY ENGAGED IN THE MAINTENANCE OF MAST ANTENNA SYSTEMS AND BE ABLE TO DEMONSTRATE THAT HE/SHE HAS SUCCESSFULLY PERFORMED ON COMPARABLE PROJECTS OVER THE PREVIOUS FIVE (5) YEARS. ANTENNA SHALL REMAIN OPERATIONAL AT ALL TIMES. ALL ABANDONDED CABLING LOCATED ON THE ROOF WILL BE REMOVED & DISPOSED BY THE OWNER.

N
REFERENCE NORTH

1 A1.1 EXISTING/DEMOLITION/NEW ROOF PLAN (HEAD SHED)
SCALE: 1/8" = 1'-0"

ANTENNA NOTE #2:
G.C. SHALL EMPLOY & INCUR ALL ASSOCIATED COSTS W/ ENLISTING A RI-LICENSED STRUCTURAL ENGINEER TO INSPECT THE EXISTING GUY WIRE SYSTEMS USING ELECTROMAGNETIC EQUIPMENT TO DETERMINE THE EXISTING THROUGH THICKNESS OF GUY SYSTEMS. UPON INSPECTION IF NECESSARY, ALL PORTIONS OF EXISTING GUY WIRE SYSTEMS TO BE REPLACED AS REQUIRED BY LICENSED PROFESSIONAL ENGINEER. REFER TO ANTENNA NOTE #1 FOR ADDITIONAL INFORMATION. G.C. SHALL CONSULT AND COORDINATE ALL WORK W/ OWNER PRIOR TO COMMENCING WORK.

NEW CONDUIT NOTE:
PROVIDE NEW 2"-DIAMETER EXTERIOR GALVANIZED-METAL CONDUIT, POWDER-COATED "BRICK RED" COLOR. CONDUIT SHALL BE RUN EXPOSED FROM ROOF SURFACE (THREADED END CAPPED); UP THE FACE OF THE PVC MEMBRANE-COVERED PARAPET WALL, SECURED WITH 1" WIDE 60-MIL PVC WIDE HEAT-WELDED STRAPS AT 36" ON-CENTER; OVER PARAPET WALL CAP AND DOWN THE FACE OF THE NORTH SIDE OF THE BUILDING, SECURED INTO BRICK MORTAR JOINTS WITH GALVANIZED-METAL STRAPS (POWDER-COATED "BRICK RED" COLOR) AT 60" ON-CENTER. CONDUIT SHALL BE RUN VERTICALLY AT THE 90-DEGREE CORNER OF THE NEAREST EXTERIOR BRICK-MASONRY COLUMN. CONDUIT SHALL PENETRATE THE SOLID BRICK-MASONRY/ PLASTER-LATHE EXTERIOR WALL (ASSUME 24" THICK) AT THE 1ST FLOOR LEVEL OF THE TACTICAL OPERATIONS CENTER (TOC). THIS ROOM IS LOCATED ABOVE THE ENTRANCE DOOR TO THE BASEMENT LEVEL AT THE NORTH SIDE OF THE BUILDING. PROVIDE ALL BACKER ROD, SEALANT, LB CONDUIT FITTING, INTERIOR SURFACE (WALL)-MOUNTED ELECTRICAL BOX, ETC. FOR A COMPLETE AND WEATHERTIGHT INSTALLATION. ASSUME 75 LINEAR FEET TOTAL CONDUIT RUN WITH TWELVE (12) BENDS. EXACT LOCATIONS SHALL BE COORDINATED WITH THE OWNER.

GENERAL ROOF NOTES:

1. AT ALL ROOF LEVELS INDICATED ON ROOF PLAN AS; "NEW PVC ROOFING ASSEMBLY" REMOVE AND DISPOSE EXISTING ROOFING ASSEMBLIES, INCLUDING BUT NOT LIMITED TO: MEMBRANE, FLASHINGS, INSULATION, WOOD BLOCKING, CANT BLOCKING, ANCHORS, FIBERBOARD, ROOF DRAIN ASSEMBLIES, ETC. STRIP ENTIRE ROOFING ASSEMBLY DOWN TO ROOF DECK. NOTE: MORE THAN ONE (1) ROOFING ASSEMBLY MAY EXIST.

2. REMOVE AND DISPOSE ALL ROOFTOP DEBRIS PRIOR TO COMMENCING WORK.

3. CONTRACTOR MAY, WITH THE WRITTEN APPROVAL OF THE ARCHITECT, REUSE CERTAIN EXISTING WOOD BLOCKING AND CERTAIN METAL FLASHINGS. CONTRACTOR SHALL PROVIDE OWNER WITH CREDIT RELATIVE TO SUCH WORK.

4. THOROUGHLY FIELD VERIFY ALL EXISTING CONDITIONS BEFORE BEGINNING CONSTRUCTION. ADVISE OWNER AND ARCHITECT OF ANY DEFICIENT AREAS NOT SHOWN OR DESCRIBED IN THE CONTRACT DOCUMENTS. ADDITIONAL COSTS WILL NOT BE ALLOWED FOR WORK OBVIOUSLY INTENDED TO BE A PART OF THE SCOPE OF WORK.

5. EXTEND SKYLIGHT AND ROOF HATCH UNITS TO MAINTAIN A ROOF/UNIT CLEARANCE OF 12" MINIMUM (FROM FINISH ROOF TO UNDERSIDE OF SKYLIGHT/HATCH). NEW ROOFING ASSEMBLY SHALL EXTEND UP AND OVER EACH CURB ASSEMBLY AND SHALL BE SECURED IN-PLACE AT INSIDE OF CURB. IF APPLICABLE, ENGAGE THE SERVICES OF A RHODE ISLAND-LICENSED ELECTRICAL CONTRACTOR TO DISCONNECT AND RECONNECT ALL ELECTRICAL-RELATED WORK.

6. CONTRACTOR IS ADVISED THAT STANDING WATER SHALL NOT REMAIN ON ANY NEW ROOF SURFACE WITHIN FORTY-EIGHT (48) HOURS AFTER ANY RAINSTORM.

7. PROVIDE CRICKETS AS SHOWN AS SHOWN OR AS REQUIRED PER ROOF MEMBRANE MANUFACTURER. MINIMUM CRICKET TAPER SHALL BE 1/2"/FT. MINIMUM.

8. PROVIDE NON-FERROUS MEMBRANE BETWEEN DIFFERENT METAL TYPES.

9. CONTRACTOR SHALL PROVIDE NEW ROOFING ASSEMBLY IN ACCORDANCE WITH THE DRAWINGS & SPECIFICATIONS AND WHERE APPLICABLE, AND AUTHORIZED BY THE ARCHITECT AND IN ACCORDANCE WITH MANUFACTURER'S WRITTEN INSTRUCTIONS.

10. ALL SUMPS AT ROOF DRAINS SHALL BE 4'x4' (UNLESS OTHERWISE NOTED) WITH A 4-WAY PITCH TO NEW ROOF DRAIN ASSEMBLY.

11. CONTRACTOR SHALL PRIME EXISTING ROOF DECKS & EXISTING/NEW MATERIALS IN ACCORDANCE WITH PERTINENT MANUFACTURERS' WRITTEN INSTRUCTIONS BEFORE PROVIDING NEW VAPOR RETARDER.

12. AT ALL LOCATIONS INDICATED ON THE ROOF PLAN, REMOVE AND DISPOSE EXISTING ROOF DRAIN ASSEMBLIES. PROVIDE NEW ROOF DRAIN ASSEMBLIES TO SUIT NEW ROOFING ASSEMBLY AND EXISTING ROOF LEADER DIMENSIONS- FIELD VERIFY ALL CONDITIONS AND SIZES. CONTRACTOR SHALL ROUTE-OUT ALL ROOF DRAIN CONDUCTORS COMPLETELY FROM ROOF DRAIN TO WITHIN 10'-0" OF THE APPLICABLE EXTERIOR BUILDING FACADE- FLUSH UPON COMPLETION.

13. AT ALL BUILDING FACADES WHERE STAGING HAS BEEN ERECTED, CONTRACTOR SHALL FILL ALL HOLES REMAINING IN MORTAR JOINTS FROM STAGING FASTENERS AFTER STAGING IS REMOVED. MORTAR SHALL MATCH COLOR OF EXISTING. DO NOT FASTEN INTO BRICK.

14. OWNER SHALL HAVE FIRST RIGHT OF REFUSAL OF ANY AND ALL MATERIALS AND EQUIPMENT SPECIFIED FOR REMOVAL AND DISPOSAL. IF OWNER ELECTS NOT TO KEEP MATERIALS AND EQUIPMENT, CONTRACTOR SHALL REMOVE AND DISPOSE IN A PROPER AND APPROVED MANNER.

15. EXISTING ROOF DECK AT THE MAIN ROOF LEVEL IS ASSUMED TO BE WOOD PLANKING. EXISTING ROOF DECK OVER THE FRONT ENTRANCE IS ASSUMED TO BE CONCRETE.

16. ALL VOIDS (OPENINGS) ENCOUNTERED IN EXISTING ROOF DECKS, LARGER THAN 2" SQUARE, SHALL BE COVERED WITH 16 GAUGE GALVANIZED-STEEL PLATE, (OR OTHER MATERIAL AS APPROVED BY THE ARCHITECT) OVERLAPPING VOID 8" MIN., AND PROPERLY SECURED IN PLACE PRIOR TO INSTALLING NEW BASE LAYER OF INSULATION.

17. PROVIDE NEW PRESSURE-TREATED WOOD BLOCKING AT PERIMETERS OF SKYLIGHTS, ROOF HATCH & ELSEWHERE AS REQUIRED TO ACCOMMODATE HEIGHT OF NEW INSULATION. PROVIDE FOR A COMPLETE & PROPER JOB.

18. WOOD BLOCKING SHOWN HEREIN IS DIAGRAMMATIC. CONTRACTOR SHALL PROVIDE ADEQUATE WOOD BLOCKING AS APPROVED BY THE ARCHITECT, TO ACCOMMODATE THICKNESS OF INSULATION.

19. ROOF PLAN DIMENSIONS, CONFIGURATIONS, QUANTITIES, ETC. MAY NOT BE EXACT. CONTRACTOR SHALL FIELD VERIFY ALL CONDITIONS, DIMENSIONS AND QUANTITIES PRIOR TO SUBMITTING BID AND COMPENSATE FOR ANY DISCREPANCIES ON THE DRAWINGS. CONTRACTOR WILL NOT BE ALLOWED ADDITIONAL MONEYS FOR WORK OBVIOUSLY INTENDED TO BE PART OF THESE CONTRACT DOCUMENTS.

20. IN GENERAL (UNLESS OTHERWISE NOTED HEREIN), AT ALL WALL FLASHINGS AND REGLETS, CONTRACTOR SHALL REMOVE AND DISPOSE EXISTING METAL FLASHINGS- RAKE AND CLEAN JOINT. PROVIDE NEW COPPER FLASHINGS AT ALL EXISTING METALS FLASHING LOCATIONS. PROVIDE MORTAR, CAULKING AND SEALANTS IN ACCORDANCE WITH APPLICABLE INDUSTRY STANDARDS AND TO THE SATISFACTION OF THE ARCHITECT, AND AS REQUIRED FOR A COMPLETED AND PROPER JOB. (UNLESS NOTED OTHERWISE)

21. CONTRACTOR SHALL ELEVATE ALL CABLES, CABLE TRAYS, TELECOMMUNICATION EQUIPMENT, CONDUIT, ETC. ON ROOFTOP DURING CONSTRUCTION. CONSULT ANY AND ALL APPLICABLE VENDORS OF OWNER PRIOR TO COMMENCING WITH THIS WORK- FIELD VERIFY PRIOR TO SUBMITTING BID.

22. ALL EXISTING-TO-REMAIN MATERIALS SHALL BE MADE WATERTIGHT WITH APPROVED SEALANTS.

23. ALL NEW METAL TYING INTO EXISTING METALS SHALL BE OF THE SAME TYPE UNLESS OTHERWISE NOTED HEREIN.

24. DISCONNECT AND RECONNECT ALL MECHANICAL- AND ELECTRICAL-RELATED EQUIPMENT AS NECESSARY FOR A COMPLETE AND PROPER INSTALLATION. PROVIDE NEW MATERIALS AS REQUIRED FOR A COMPLETE & PROPER INSTALLATION. PRIOR TO SUBMITTING BID, CONTRACTOR SHALL FIELD VERIFY ALL EXISTING MATERIALS AND CONDITIONS WITH APPLICABLE MASSACHUSETTS-LICENSED MECHANICAL AND ELECTRICAL SUBCONTRACTORS- ADDITIONAL COSTS FOR REQUIRED WORK WILL NOT BE ALLOWED.

25. ALL EXISTING-TO-REMAIN FLEXIBLE FLASHINGS SHALL BE MADE WATERTIGHT WITH AN APPROVED SEALANT. ALL EXISTING-TO-REMAIN METAL FLASHING JOINTS SHALL BE MADE WATERTIGHT BY RE-SOLDERING.

26. IF APPLICABLE, REMOVE AND DISPOSE ALL BEES' NESTS FROM BUILDING SOFFITS AND ROOFTOP LEVELS- FIELD VERIFY LOCATIONS PRIOR TO SUBMITTING BID.

27. IF APPLICABLE, REMOVE & DISPOSE & PROVIDE NEW EXTERIOR-GRADE PIPE INSULATION WITH PROTECTIVE JACKET, WHERE IT PRESENTLY EXISTS ON ROOFTOP LEVELS.

N
REFERENCE NORTH

2 A-1.1 KEY PLAN- ROOF
SCALE: NONE

WSA
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DRAWN BY:	GCN/AM/PMA
JOB NUMBER:	15-135

DRAWING NAME:
EXISTING/DEMOLITION/ NEW ROOF PLAN- HEAD SHED & GENERAL ROOF NOTES

DRAWING NUMBER:
A1.1
SHEET 2 OF 6

COMMENTS:
ISSUED FOR BID

NOTE:
ALL MATERIALS NOT SHOWN HATCHED AS BRICK ARE LIMESTONE, UNLESS OTHERWISE NOTED. G.C. TO FIELD VERIFY PRIOR TO SUBMITTING BID.

1 A3.0 WEST ELEVATION
SCALE: 1/8" = 1'-0"

2 A3.0 EAST ELEVATION
SCALE: 1/8" = 1'-0"

GENERAL MASONRY RESTORATION NOTES:

NOTE: NUMERICALLY DESIGNATED NOTES ARE SHOWN ON EXTERIOR ELEVATIONS. ALPHABETICALLY DESIGNATED NOTES ARE GENERAL MASONRY RESTORATION NOTES.

1. PROVIDE **100%** POINTING OF MORTAR JOINTS IN BRICK & LIMESTONE MASONRY, ENTIRE FACADE, ABOVE DESIGNATED HORIZONTAL LINES, TYPICAL AT NORTH ELEVATION OF THE HEAD SHED.

2. PROVIDE **50%** POINTING OF MORTAR JOINTS IN BRICK MASONRY AND **100%** POINTING OF MORTAR JOINTS IN, ALL LIMESTONE, ENTIRE FACADE, BELOW DESIGNATED HORIZONTAL LINES, TYPICAL AT NORTH ELEVATION OF THE HEAD SHED.

3. REMOVE & RESET EXIST./NEW LIMESTONE CAPS IN ACCORDANCE WITH DETAIL "A/A5.0", TYP. AT ENTIRE HEAD SHED PARAPET WALLS.

4. REPLACE EXIST. (REMOVE/DISPOSE & PROVIDE NEW) SEALANT AT ANNULAR SPACE, AROUND EXIST. PIPE PENETRATIONS. REFER TO EXTERIOR ELEVATIONS FOR LOCATIONS. G.C. TO VERIFY TOTAL NUMBER OF PENETRATIONS.

5. REMOVE AND REBUILD EXISTING MAIN ENTRANCE STAIR BRICK PIERS AS REQUIRED. REPAIR EXISTING CONCRETE FOUNDATION/BRICK SHELF AT BOTH PIERS AS REQUIRED PER SPECIFICATIONS. PROVIDE **100%** POINTING OF MORTAR JOINTS AT AREAS OF BRICK PIERS THAT DO NOT REQUIRE TO BE REBUILT, INCLUDING POINTING OF EXIST. LIMESTONE CAPS.

6. PROVIDE **100%** POINTING OF MORTAR JOINTS, AT ENTIRE (2) TWO STAIR ASSEMBLIES, INCLUDING THE (2) TWO GRANITE PIERS AT SIDEWALK STREET LEVEL. REMOVE & RESET EXIST. GRANITE STEPS AND GRANITE PIER CAPS AS REQUIRED.

7. RESTORE ENTIRE (EXTERIOR & INTERIOR) EXISTING WOOD DOOR, TRANSOM, & WOOD FRAME TO ORIGINAL/NEW CONDITION AS REQUIRED. G.C. TO SAND, PATCH AND/OR REPLACE PORTION OF DOOR AND/OR FRAME IF NECESSARY, & PREPARE ALL SURFACES TO RECEIVE NEW PAINT FINISH TO MATCH EXISTING COLOR FINISH. G.C. TO PRIME & PAINT ENTIRE DOOR ASSEMBLY PER PROJECT MANUAL AND RECOMMENDED MANUFACTURERS SPECIFICATIONS FOR EXTERIOR WOOD. HARDWARE TO BE REFURBISHED TO NEW CONDITION AS REQUIRED & PREPARED TO RECEIVE NEW PAINT FINISH. G.C. TO CONFIRM FINISHES & SUBMIT PAINT COLOR SAMPLES TO OWNER & ARCHITECT FOR APPROVAL PRIOR TO COMMENCING WORK.

8. REMOVE EXISTING LIGHT FIXTURE, METAL CONDUIT AND ASSOCIATED MATERIALS IN THEIR ENTIRETY BACK TO ENTRANCE DOOR AND PROVIDE NEW FLUSH WALL MOUNTED LED FIXTURE W/ PHOTOCELL. LIGHT FIXTURE TO BE HISTORICAL TYPE, VINTAGE DOWNLIGHT "PARK RIDGE SERIES" BY "STERNBERG LIGHTING", MODEL # 1910LED/5RLM18 WITH FIXTURE MOUNTED PHOTOCELL. FIXTURE LIGHTING TO HAVE A COLOR TEMPERATURE OF 4500K AND A MINIMUM OF 8500 LUMENS. MOUNTING ARM BRACKET TO BE TRADITIONAL ARMS TYPE BY "STERNBERG LIGHTING", MODEL "4804" WALL BRACKET. G.C. TO SUBMIT FINISH SAMPLES OF FIXTURE AND BRACKET MATCHING DOOR FINISH FOR REVIEW & APPROVAL. TOP OF LIGHT FIXTURE/BRACKET TO BE MOUNTED @ +/- 6' BELOW UNDERSIDE OF EXISTING LIMESTONE/TOP OF DOOR TRANSOM, COORDINATE FINAL MOUNTING HEIGHT WITH OWNER. EXISTING LIGHT FIXTURE CONDUIT HOLE IN DOOR TRANSOM TO BE INFILLED AND BLENDED W/ ADJACENT SURFACES. NEW LIGHT FIXTURE/BRACKET TO BE INSTALLED ON A MOUNTING WOOD BLOCK TO MATCH DOOR FINISH. IF REQUIRED, THE LIGHTING BALLAST IS TO BE INSTALLED AT A REMOTE LOCATION TO BE COORDINATED WITH OWNER.

9. REMOVE EXISTING WALL SCONCE LIGHT FIXTURE METAL BRACKETS AND RESTORE TO ORIGINAL/NEW CONDITION. G.C. TO SAND, CLEAN, PRIME AND PAINT BRACKETS AND RE-INSTALL AT SAME LOCATION (COORDINATE COLOR WITH OWNER). CONSULT ARCHITECT PRIOR TO STARTING THIS TASK. USE SHERWIN WILLIAMS, EXTERIOR ENAMEL, AS SPECIFICALLY RECOMMENDED IN WRITING BY SHERWIN WILLIAMS. COMPLETE ALL WORK IN STRICT CONFORMANCE WITH THE MANUFACTURER'S WRITTEN INSTRUCTIONS.

A. BUILDING ELEVATIONS SHOWN ON THIS DRAWING DESCRIBE TYPICAL AREAS OF EXISTING MASONRY REQUIRING POINTING AND/OR BRICK REPLACEMENT. CONTRACTOR SHALL FIELD VERIFY ACTUAL LOCATIONS REQUIRING RE- POINTING AND REPAIRS. CONTRACTOR SHALL CONSULT WITH OWNER AND ARCHITECT BEFORE BEGINNING WORK.

B. REMOVE LOOSE AND DAMAGED MORTAR; POINTING OF MORTAR JOINTS SHALL MATCH EXIST. MASONRY POINTING GENERALLY INVOLVES RAKING EXISTING DETERIORATED MORTAR JOINTS BY COMBINED MEANS OF HAND CHISELS AND MASH HAMMERS, POWER SAWS AND GRINDERS AND/OR PNEUMATICALLY POWERED CHISELS, A MINIMUM DEPTH OF 3/4". CLEAN ALL JOINTS, PROVIDE NEW MORTAR TO MATCH COLOR, TEXTURE AND TOOLING OF EXISTING. REFER TO PERTINENT SECTIONS OF PROJECT MANUAL HEREIN FOR SPECIFIC INFORMATION. PROVIDE MASONRY POINTING IN QUANTITY AS SPECIFIED HEREIN IN ACCORDANCE WITH PROJECT MANUAL. PROVIDE BRICK REPLACEMENT IN QUANTITY AS SPECIFIED HEREIN IN ACCORDANCE WITH PROJECT MANUAL, TYP.

C. PROVIDE **100%** POINTING OF ALL LIMESTONE JOINTS (LINTELS, CAPS, SILLS, QUOINS, ORNAMENTALS, WATERTABLES, ETC.) TYPICAL AT ENTIRE HEAD SHED.

D. CONTRACTOR SHALL MATCH THE PHYSICAL & CHEMICAL PROPERTIES OF THE EXIST. ORIGINAL MORTAR AS CLOSELY AS POSSIBLE AND WITHIN REASON; HOWEVER, THE NEW MORTAR SHALL MATCH THE EXIST. (ORIGINAL) MORTAR IN COLOR, TEXTURE, AND TOOLING. IT IS ALSO THE INTENT OF THESE CONTRACT DOCUMENTS TO MATCH THE SAND OF THE ORIGINAL MORTAR AS WELL AS PROVIDE A NEW MORTAR W/ GREATER VAPOR PERMEABILITY. IT IS INTENDED FOR THE NEW MORTAR TO BE AS SOFT OR SOFTER, MEASURED IN COMPRESSIVE STRENGTH, THAN THE ORIGINAL MORTAR.

E. COORDINATE WITH OWNER, WORK AT BUILDING ENTRANCES AND PARKING AREAS ADJACENT TO THE BUILDING. BUILDING AND SITE WILL BE OCCUPIED DURING CONSTRUCTION. CONTRACTOR SHALL PROVIDE ADEQUATE SIGNAGE TO DIRECT PEDESTRIAN TRAFFIC AND VEHICLE TRAFFIC TO ALTERNATE ROUTES.

F. SPECIFIC LOCATIONS TO BEGIN MASONRY RESTORATION WORK SHALL BE COORDINATED BETWEEN THE OWNER, CONTRACTOR AND ARCHITECT AFTER AWARD OF THE CONTRACT.

G. CONTRACTOR SHALL PREPARE MOCK-UP PANEL IN ACCORDANCE WITH APPLICABLE SECTIONS OF THE PROJECT MANUAL OR A DIRECTED BY THE OWNER AND ARCHITECT, FOR REVIEW AND APPROVAL BY THE OWNER AND ARCHITECT.

H. COVER & COMPLETELY PROTECT WINDOWS & OTHER BUILDING COMPONENTS FROM DAMAGE DUE TO SPECIFIED NEW WORK. FIELD VERIFY QUANTITIES & BECOME FAMILIAR W/ EXIST. CONDITIONS AS THEY RELATE TO THE INTENDED SCOPE OF WORK, PRIOR TO SUBMITTING BID. CONTRACTOR SHALL REPLACE AIR-CONDITIONING UNITS LOUVERS, GRILLES, & OTHER BUILDING COMPONENTS W/ NEW IF DAMAGED DURING CONSTRUCTION.

I. POWERWASH (CLEAN) ALL MASONRY, (BRICK, LIMESTONE, MARBLE, GRANITE, CONCRETE, ETC.) INCLUDING BUILDING FRONT-ENTRANCE STEPS IN STRICT CONFORMANCE WITH APPLICABLE SECTIONS OF THE PROJECT MANUAL.

J. WATERPROOF ALL MASONRY, (BRICK, LIMESTONE, MARBLE, GRANITE, CONCRETE, ETC.) IN STRICT CONFORMANCE W/ APPLICABLE SECTIONS OF THE PROJECT MANUAL.

K. REMOVE ALL BIRD GUANO, ALGAE, MOSS, VINE GROWTH, ATMOSPHERIC SOOT, ETC. FROM BUILDING.

L. RAKE AND POINT JOINTS AT ALL EXTERIOR STEPS. REFER TO PERTINENT CONSTRUCTION NOTES AND SPECIFICATION SECTIONS HEREIN. POWER WASH ALL EXTERIOR STEP ASSEMBLIES.

M. RAKE ALL FLASHING JOINTS IN MASONRY. PROVIDE NEW MORTAR.

N. AT ALL EXPOSED METAL CONDUIT AT EACH FACADE OF BUILDING, SAND, CLEAN, PRIME, AND PAINT (COORDINATE COLOR WITH OWNER). FIELD VERIFY EXACT LOCATIONS AND LINEAR FOOTAGE PRIOR TO SUBMITTING BID. CONSULT ARCHITECT PRIOR TO STARTING THIS TASK. USE SHERWIN WILLIAMS, EXTERIOR ENAMEL AS SPECIFICALLY RECOMMENDED IN WRITING BY SHERWIN WILLIAMS. COMPLETE ALL WORK IN STRICT CONFORMANCE WITH THE MANUFACTURER'S WRITTEN INSTRUCTIONS.

O. CLEAN AND SOLDER DAMAGED JOINTS OF ALL LEAD COATED COPPER FLASHINGS IN LOCATIONS DESIGNATED BY THE ARCHITECT. INCLUDE A TOTAL OF **200 L.F.** OF JOINT SOLDERING IN SUBMITTED BID.

P. CAREFULLY REMOVE ALL SIGNAGE @ BUILDING FACADES PRIOR TO BEGINNING MASONRY RESTORATION. STORE SIGNAGE IN AREA DESIGNATED BY THE OWNER. RE-INSTALL IN ORIGINAL LOCATION OR A DIRECTED BY THE OWNER, UPON COMPLETION OF THE WORK.

Q. REMOVE AND DISPOSE ALL NON-FUNCTIONAL METAL EXPANSION SHIELDS, NAILS, HOOKS, BRACKETS, ETC. AT EACH BUILDING FAÇADE. RESTORE MASONRY TO ORIGINAL/NEW CONDITION.

N
REFERENCE NORTH

3 A-3.0 KEY PLAN- ROOF
SCALE: NONE

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MASONRY RESTORATION & ROOF REPLACEMENT
(RE-BID)
AT THE
ARMORY OF MOUNTED COMMANDS
FOR THE
RHODE ISLAND
ARMY NATIONAL GUARD
PROVIDENCE, RHODE ISLAND

REVISIONS:

SCALE:	AS NOTED
DATE:	02/28/2019
DRAWN BY:	PPY/GCN/PMA
JOB NUMBER:	15-135

DRAWING NAME:
EXISTING/NEW EAST & WEST EXTERIOR ELEVATIONS (HEAD SHED)

DRAWING NUMBER:
A3.0

SHEET 3 OF 6

COMMENTS:
ISSUED FOR BID

1 A3.1 SOUTH ELEVATION
SCALE: 1/8" = 1'-0"

2 A3.1 NORTH ELEVATION
SCALE: 1/8" = 1'-0"

GENERAL MASONRY RESTORATION NOTES:

NOTE: NUMERICALLY DESIGNATED NOTES ARE SHOWN ON EXTERIOR ELEVATIONS. ALPHABETICALLY DESIGNATED NOTES ARE GENERAL MASONRY RESTORATION NOTES.

1. PROVIDE **100%** POINTING OF MORTAR JOINTS IN BRICK & LIMESTONE MASONRY, ENTIRE FACADE, ABOVE DESIGNATED HORIZONTAL LINES, TYPICAL AT ENTIRE HEAD SHED.

2. PROVIDE **50%** POINTING OF MORTAR JOINTS IN BRICK MASONRY & **100%** POINTING OF MORTAR JOINTS IN, ALL LIMESTONE, ENTIRE FACADE, BELOW DESIGNATED HORIZONTAL LINES, TYP. AT ENTIRE HEAD SHED.

3. REMOVE & RESET EXIST./NEW LIMESTONE CAPS IN ACCORDANCE WITH DETAIL "A/A5.0", TYP. AT ENTIRE HEAD SHED PARAPET WALLS.

4. REPLACE EXIST. (REMOVE/DISPOSE & PROVIDE NEW) SEALANT AT ANNULAR SPACE, AROUND EXIST. PIPE PENETRATIONS. REFER TO EXTERIOR ELEVATIONS FOR LOCATIONS. G.C. TO VERIFY TOTAL NUMBER OF PENETRATIONS.

5. REMOVE AND REBUILD EXISTING MAIN ENTRANCE STAIR BRICK PIERS AS REQUIRED. REPAIR EXISTING CONCRETE FOUNDATION/BRICK SHELF AT BOTH PIERS AS REQUIRED PER SPECIFICATIONS. PROVIDE **100%** POINTING OF MORTAR JOINTS AT AREAS OF BRICK PIERS THAT DO NOT REQUIRE TO BE REBUILT, INCLUDING POINTING OF EXIST. LIMESTONE CAPS.

6. PROVIDE **100%** POINTING OF MORTAR JOINTS, AT ENTIRE (2) TWO STAIR ASSEMBLIES, INCLUDING THE (2) TWO GRANITE PIERS AT SIDEWALK STREET LEVEL. REMOVE & RESET EXIST. GRANITE STEPS AND GRANITE PIER CAPS AS REQUIRED.

7. RESTORE ENTIRE (EXTERIOR & INTERIOR) EXISTING WOOD DOOR, TRANSOM, & WOOD FRAME TO ORIGINAL/NEW CONDITION AS REQUIRED. G.C. TO SAND, PATCH AND/OR REPLACE PORTION OF DOOR AND/OR FRAME IF NECESSARY, & PREPARE ALL SURFACES TO RECEIVE NEW PAINT FINISH TO MATCH EXISTING COLOR FINISH. G.C. TO PRIME & PAINT ENTIRE DOOR ASSEMBLY PER PROJECT MANUAL AND RECOMMENDED MANUFACTURERS SPECIFICATIONS FOR EXTERIOR WOOD. HARDWARE TO BE REFURBISHED TO NEW CONDITION AS REQUIRED AND PREPARED TO RECEIVE NEW PAINT FINISH. G.C. TO CONFIRM FINISHES & SUBMIT PAINT COLOR SAMPLES TO OWNER AND ARCHITECT FOR APPROVAL PRIOR TO COMMENCING WORK.

8. REMOVE EXISTING LIGHT FIXTURE, METAL CONDUIT AND ASSOCIATED MATERIALS IN THEIR ENTIRETY BACK TO ENTRANCE DOOR AND PROVIDE NEW FLUSH WALL MOUNTED LED FIXTURE W/ PHOTOCELL. LIGHT FIXTURE TO BE HISTORICAL TYPE, VINTAGE DOWNLIGHT "PARK RIDGE SERIES" BY "STERNBERG LIGHTING", MODEL # HRLED/SRLM9 WITH FIXTURE MOUNTED PHOTOCELL. FIXTURE LIGHTING TO HAVE A COLOR TEMPERATURE OF 4500K AND A MINIMUM OF 8500 LUMENS. MOUNTING ARM BRACKET TO BE TRADITIONAL ARMS TYPE BY "STERNBERG LIGHTING", MODEL "4BOH" WALL BRACKET. G.C. TO SUBMIT FINISH SAMPLES OF FIXTURE AND BRACKET MATCHING DOOR FINISH FOR REVIEW & APPROVAL. TOP OF LIGHT FIXTURE/BRACKET TO BE MOUNTED @ +/- 6" BELOW UNDERSIDE OF EXISTING LIMESTONE/TOP OF DOOR TRANSOM, COORDINATE FINAL MOUNTING HEIGHT WITH OWNER. EXISTING LIGHT FIXTURE CONDUIT HOLE IN DOOR TRANSOM TO BE INFILLED & BLENDED WITH ADJACENT SURFACES. NEW LIGHT FIXTURE/BRACKET TO BE INSTALLED ON A MOUNTING WOOD BLOCK TO MATCH DOOR FINISH. IF REQUIRED, THE LIGHTING BALLAST IS TO BE INSTALLED AT A REMOTE LOCATION TO BE COORDINATED WITH OWNER.

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B. REMOVE LOOSE AND DAMAGED MORTAR, POINTING OF MORTAR JOINTS SHALL MATCH EXIST. MASONRY POINTING GENERALLY INVOLVES RAKING EXISTING DETERIORATED MORTAR JOINTS BY COMBINED MEANS OF HAND CHISELS AND MASH HAMMERS, POWER SAWS AND GRINDERS AND/OR PNEMATICALLY POWERED CHISELS, A MINIMUM DEPTH OF 3/4". CLEAN ALL JOINTS, PROVIDE NEW MORTAR TO MATCH COLOR, TEXTURE AND TOOLING OF EXISTING. REFER TO PERTINENT SECTIONS OF PROJECT MANUAL HEREIN FOR SPECIFIC INFORMATION. PROVIDE MASONRY POINTING IN QUANTITY AS SPECIFIED HEREIN IN ACCORDANCE WITH PROJECT MANUAL. PROVIDE BRICK REPLACEMENT IN QUANTITY AS SPECIFIED HEREIN IN ACCORDANCE WITH PROJECT MANUAL, TYP.

C. PROVIDE **100%** POINTING OF ALL LIMESTONE JOINTS (LINTELS, CAPS, SILLS, QUOINS, ORNAMENTALS, WATERTABLES, ETC.) TYPICAL AT THE NORTH ELEVATION OF THE HEAD SHED.

D. CONTRACTOR SHALL MATCH THE PHYSICAL & CHEMICAL PROPERTIES OF THE EXIST. ORIGINAL MORTAR AS CLOSELY AS POSSIBLE AND WITHIN REASON, HOWEVER, THE NEW MORTAR SHALL MATCH THE EXIST. (ORIGINAL) MORTAR IN COLOR, TEXTURE, AND TOOLING. IT IS ALSO THE INTENT OF THESE CONTRACT DOCUMENTS TO MATCH THE SAND OF THE ORIGINAL MORTAR AS WELL AS PROVIDE A NEW MORTAR W/ GREATER VAPOR PERMEABILITY. IT IS INTENDED FOR THE NEW MORTAR TO BE AS SOFT OR SOFTER, MEASURED IN COMPRESSIVE STRENGTH, THAN THE ORIGINAL MORTAR.

E. COORDINATE WITH OWNER, WORK AT BUILDING ENTRANCES AND PARKING AREAS ADJACENT TO THE BUILDING. BUILDING AND SITE WILL BE OCCUPIED DURING CONSTRUCTION. CONTRACTOR SHALL PROVIDE ADEQUATE SIGNAGE TO DIRECT PEDESTRIAN TRAFFIC AND VEHICLE TRAFFIC TO ALTERNATE ROUTES.

F. SPECIFIC LOCATIONS TO BEGIN MASONRY RESTORATION WORK SHALL BE COORDINATED BETWEEN THE OWNER, CONTRACTOR AND ARCHITECT AFTER AWARD OF THE CONTRACT.

G. CONTRACTOR SHALL PREPARE MOCK-UP PANEL IN ACCORDANCE WITH APPLICABLE SECTIONS OF THE PROJECT MANUAL OR A DIRECTED BY THE OWNER AND ARCHITECT, FOR REVIEW AND APPROVAL BY THE OWNER AND ARCHITECT.

H. COVER & COMPLETELY PROTECT WINDOWS & OTHER BUILDING COMPONENTS FROM DAMAGE DUE TO SPECIFIED NEW WORK. FIELD VERIFY QUANTITIES & BECOME FAMILIAR W/ EXIST. CONDITIONS AS THEY RELATE TO THE INTENDED SCOPE OF WORK, PRIOR TO SUBMITTING BID. G.C. SHALL REPLACE AIR-CONDITIONING UNITS LOUVERS, GRILLES, & OTHER BUILDING COMPONENTS W/ NEW IF DAMAGED DURING CONSTRUCTION.

I. POWERWASH (CLEAN) ALL MASONRY, (BRICK, LIMESTONE, MARBLE, GRANITE, CONCRETE, ETC.) INCLUDING BUILDING FRONT-ENTRANCE STEPS IN STRICT CONFORMANCE W/ APPLICABLE SECTIONS OF THE PROJECT MANUAL.

J. WATERPROOF ALL MASONRY, (BRICK, LIMESTONE, MARBLE, GRANITE, CONCRETE, ETC.) IN STRICT CONFORMANCE W/ APPLICABLE SECTIONS OF THE PROJECT MANUAL.

K. REMOVE ALL BIRD GUANO, ALGAE, MOSS, VINE GROWTH, ATMOSPHERIC SOOT, ETC. FROM BUILDING.

L. RAKE AND POINT JOINTS AT ALL EXTERIOR STEPS. REFER TO PERTINENT CONSTRUCTION NOTES AND SPECIFICATION SECTIONS HEREIN. POWER WASH ALL EXTERIOR STEP ASSEMBLIES.

M. RAKE ALL FLASHING JOINTS IN MASONRY. PROVIDE NEW MORTAR.

N. AT ALL EXPOSED METAL CONDUIT AT EACH FACADE OF BUILDING, SAND, CLEAN, PRIME, AND PAINT (COORDINATE COLOR WITH OWNER). FIELD VERIFY EXACT LOCATIONS AND LINEAR FOOTAGE PRIOR TO SUBMITTING BID. CONSULT ARCHITECT PRIOR TO STARTING THIS TASK. USE SHERWIN WILLIAMS, EXTERIOR ENAMEL AS SPECIFICALLY RECOMMENDED IN WRITING BY SHERWIN WILLIAMS. COMPLETE ALL WORK IN STRICT CONFORMANCE WITH THE MANUFACTURER'S WRITTEN INSTRUCTIONS.

O. CLEAN AND SOLDER DAMAGED JOINTS OF ALL LEAD COATED COPPER FLASHINGS IN LOCATIONS DESIGNATED BY THE ARCHITECT. INCLUDE A TOTAL OF **200 L.F.** OF JOINT SOLDERING IN SUBMITTED BID.

P. CAREFULLY REMOVE ALL SIGNAGE @ BUILDING FACADES PRIOR TO BEGINNING MASONRY RESTORATION. STORE SIGNAGE IN AREA DESIGNATED BY THE OWNER. RE-INSTALL IN ORIGINAL LOCATION OR A DIRECTED BY THE OWNER, UPON COMPLETION OF THE WORK.

Q. REMOVE AND DISPOSE ALL NON-FUNCTIONAL METAL EXPANSION SHIELDS, NAILS, HOOKS, BRACKETS, ETC. AT EACH BUILDING FAÇADE. RESTORE MASONRY TO ORIGINAL/NEW CONDITION.

NEW CONDUIT NOTE:
PROVIDE NEW 2"-DIAMETER EXTERIOR GALVANIZED-METAL CONDUIT, POWDER-COATED "BRICK RED" COLOR. CONDUIT SHALL BE RUN EXPOSED FROM ROOF SURFACE (THREADED END CAPPED); UP THE FACE OF THE PVC MEMBRANE-COVERED PARAPET WALL, SECURED WITH 1" WIDE 60-MIL PVC WIDE HEAT-WELDED STRAPS AT 36" ON-CENTER; OVER PARAPET WALL CAP AND DOWN THE FACE OF THE NORTH SIDE OF THE BUILDING, SECURED INTO BRICK MORTAR JOINTS WITH GALVANIZED-METAL STRAPS (POWDER-COATED "BRICK RED" COLOR) AT 60" ON-CENTER. CONDUIT SHALL BE RUN VERTICALLY AT THE 90-DEGREE CORNER OF THE NEAREST EXTERIOR BRICK-MASONRY COLUMN. CONDUIT SHALL PENETRATE THE SOLID BRICK-MASONRY/ PLASTER-LATHE EXTERIOR WALL (ASSUME 24" THICK) AT THE 1ST FLOOR LEVEL OF THE TACTICAL OPERATIONS CENTER (TOC). THIS ROOM IS LOCATED ABOVE THE ENTRANCE DOOR TO THE BASEMENT LEVEL AT THE NORTH SIDE OF THE BUILDING. PROVIDE ALL BACKER ROD, SEALANT, LB CONDUIT FITTING, INTERIOR SURFACE (WALL)-MOUNTED ELECTRICAL BOX, ETC. FOR A COMPLETE AND WEATHERTIGHT INSTALLATION. ASSUME 75 LINEAR FEET TOTAL CONDUIT RUN WITH TWELVE (12) BENDS. EXACT LOCATIONS SHALL BE COORDINATED WITH THE OWNER.

CONTRACTOR NOTES:

1. PROVIDE IN THE BASE BID PRICE, ALL COSTS ASSOCIATED WITH **100 SQ. FT.** TOTAL BRICK REPLACEMENT.

2. PROVIDE IN THE BASE BID PRICE, ALL COSTS ASSOCIATED WITH PATCHING **100 SQ. FT.** OF EXISTING PARAPET LIMESTONE CAPS WITH NEW CEMENTITIOUS REPAIR MORTAR AS SPECIFIED IN THE PROJECT MANUAL.

3. PROVIDE IN THE BASE BID PRICE, ALL COSTS ASSOCIATED WITH PATCHING **50 SQ. FT.** OF EXISTING LIMESTONE WATER TABLE, WINDOW LINTELS AND SILLS, ETC. WITH NEW CEMENTITIOUS REPAIR MORTAR AS SPECIFIED IN THE PROJECT MANUAL.

4. PROVIDE IN THE BASE BID PRICE, ALL COSTS ASSOCIATED WITH **200 L.F.** OF EPOXY GEL INJECTION CRACK REPAIRS TO EXISTING LIMESTONE AS SPECIFIED IN THE PROJECT MANUAL.

5. PROVIDE IN THE BASE BID PRICE, ALL COSTS ASSOCIATED WITH REPLACING **64 L.F.** OF DETERIORATED NON-ORNAMENTAL LIMESTONE PARAPET CAPS- REFER TO ROOF DETAILS HEREIN.

6. PROVIDE IN THE BASE BID PRICE, ALL COSTS ASSOCIATED WITH REPLACING **500 SQ. FT.** OF DETERIORATED WOOD ROOF DECKING WITH NEW WOOD DECKING TO MATCH EXISTING. ASSUME 2 1/4" THICK DECKING TO BE UTILIZED.

7. IF APPLICABLE, CONTRACTOR IS TO PROVIDE RECORD OF ALL PERFORMED WORK AS LISTED ABOVE, PRIOR TO BEING COVERED OR HIDDEN BY OTHER WORK.

N
REFERENCE NORTH

3 A-3.1 KEY PLAN- ROOF
SCALE: NONE

NOTE:
ALL MATERIALS NOT SHOWN HATCHED AS BRICK ARE LIMESTONE, UNLESS OTHERWISE NOTED. G.C. TO FIELD VERIFY PRIOR TO SUBMITTING BID.

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(RE-BID)
MASONRY RESTORATION & ROOF REPLACEMENT
AT THE
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REVISIONS:

SCALE:	AS NOTED
DATE:	02/28/2019
DRAWN BY:	PPY/GCN/PMA
JOB NUMBER:	15-135

DRAWING NAME:
EXISTING/NEW NORTH & SOUTH EXTERIOR ELEVATIONS (HEAD SHED)

DRAWING NUMBER:
A3.1

SHEET 4 OF 6

COMMENTS:
ISSUED FOR BID

REFER TO PROJECT MANUAL FOR UNIT PRICE ALLOWANCES RELATING TO SPECIFIED WORK INVOLVING EXTERIOR LIMESTONE & BRICK MASONRY RESTORATION.

PARAPET WALL NOTES:

1. PROVIDE NEW CEMENT-BASED CONCRETE RESTORATION PATCH AT ALL DETERIORATED BRICK BEHIND EXISTING SHEATHING AT PARAPET WALLS. RESTORATION PATCH MATERIAL TO BE "SIKAREPAIR 222" PATCH REPAIR MORTAR AS MANUFACTURED BY SIKA OR EQUAL (INCLUDE 200 SQ. FT. IN THE BASE BID) - CLEAN AND PREP. ALL SURFACES PRIOR TO APPLICATION AS REQUIRED.

2. G.C. SHALL REPLACE ALL SHEATHING BEHIND EXISTING ROOF MEMBRANE AT PARAPET WALLS WITH NEW EXTERIOR GRADE SHEATHING TO MATCH EXISTING AND FASTENED SHEATHING TO EXISTING MASONRY PARAPET WALLS. ASSUME 3/4" THICK SHEATHING TO BE UTILIZED.

NOTE:
G.C. SHALL INSPECT AND REPLACE ALL DETERIORATED WOOD ROOF DECKING AS REQUIRED (PROVIDE A TOTAL OF 500 SQ. FT. ALLOWANCE IN SUBMITTED BASE BID) WITH NEW WOOD DECKING TO MATCH EXISTING. ASSUME 2 1/4" THICK DECKING TO BE UTILIZED.

A / A5.0 TYP. ROOF EDGE/PARAPET DETAIL
SCALE: 1-1/2" = 1'-0"

(DELETED)

B / A5.0 TYP. DETAIL
SCALE: 1-1/2" = 1'-0"

NOTE:
PRIOR TO COMPLETING THE SPECIFIED NEW WORK AT EXISTING BUILDING PARAPETS WHERE ANTENNA POSTS EXIST:

1. REFER TO ANTENNA NOTES ON SHEET A1.1 FOR DIRECTION ON DISCONNECTIONS AND RE-CONNECTIONS OF EXISTING ANTENNAS PRIOR TO REMOVAL OF EXISTING ANTENNA POST. G.C. SHALL CONSULT AND COORDINATE ALL WORK W/ OWNER PRIOR TO COMMENCING WORK.

2. UNBOLT AND REMOVE EXISTING POST.

3. PROVIDE NEW PVC MEMBRANE OVER EXISTING PARAPET WALL. PROVIDE CUT-OUTS TO ALLOW EXISTING BOLTS TO PASS THROUGH.

4. PROVIDE NEW PVC FLASHING (WITH CUT-OUTS) PAD HOT-AIR WELDED TO NEW PVC MEMBRANE.

5. PROVIDE NEW SEALANT (BY ROOFING MANUF.) AROUND BOLTS.

6. REINSTALL EXISTING BRACKET PLATE AND PROVIDE ADDITIONAL SEALANT AROUND BOLTS AND REINSTALL EXISTING POST.

C / A5.0 TYP. SKYLIGHT CURB DETAIL
SCALE: 1-1/2" = 1'-0"

D / A5.0 TYP. PITCH POCKET DETAIL
SCALE: 1-1/2" = 1'-0"

NOTE: THIS DETAIL SHALL ONLY BE UTILIZED AT LOCATIONS WHERE NEW PVC FLASHING MEMBRANE ASSEMBLY CANNOT BE PROVIDED,AS SHOWN IN DETAIL "B", DRAWING A5.1

G / A-5.0 DETAIL (RESERVED)
SCALE:1 1/2" = 1'-0"

NOTE:
CONTRACTOR SHALL INCLUDE IN HIS BASE BID, COST TO ROUTE & CLEAN ALL DRAIN ASSEMBLIES. ALL DRAINS SHALL BE TESTED & MADE FULLY OPERATIONAL PRIOR TO BEGINNING RE-ROOFING WORK.

NOTE:
ALL NEW ROOF DRAIN SUMPS SHALL HAVE A 4-WAY SLOPE INTO EACH ROOF DRAIN.

E / A5.0 TYP. ROOF DRAIN DETAIL
SCALE: 3" = 1'-0"

(NOTE: THIS DETAIL IS TYPICAL FOR ALL ROOF DRAINS, ENTIRE PROJECT, UNLESS OTHERWISE NOTED)

F / A5.0 TYP. PLAN DETAIL
SCALE: 1-1/2" = 1'-0"

@ VERTICAL TERMINATION AT WALL MEMBRANE

NOTE:
REFER TO EXTERIOR ELEVATIONS & PROJECT MANUAL FOR SPECIFIED AREAS (QUANTITIES) OF POINTING OF EXISTING MASONRY MORTAR JOINTS & WASHING & WATERPROOFING OF MASONRY SURFACES.

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(RE-BID)
MASONRY RESTORATION & ROOF REPLACEMENT
AT THE
ARMORY OF MOUNTED COMMANDS
FOR THE
RHODE ISLAND ARMY NATIONAL GUARD
PROVIDENCE, RHODE ISLAND

REVISIONS:

SCALE:	AS NOTED
DATE:	02/28/2019
DRAWN BY:	AM/GCN/PMA
JOB NUMBER:	15-135

DRAWING NAME:
ROOF DETAILS

DRAWING NUMBER:
A5.0
SHEET 5 OF 6

COMMENTS:
ISSUED FOR BID

A / A5.1 TYP. VENT STACK DETAIL

SCALE: 3" = 1'-0"

(NOTE: THIS DETAIL IS TYPICAL FOR ALL VENT STACKS, ENTIRE PROJECT, UNLESS OTHERWISE NOTED)

B / A5.1 TYP. PIPE FLASHING DETAIL

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

(ALL PIPE PENETRATIONS)

C / A5.1 DETAIL @ ANTENNA BASE

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

ANTENNA NOTE #1:
G.C. SHALL EMPLOY AND INCUR ALL ASSOCIATED COSTS WITH ENLISTING A CERTIFIED/LICENSED PROFESSIONAL ANTENNA INSTALLER TO PERFORM/SUPERVISE ALL WORK DIRECTLY ASSOCIATED WITH THE EMERGENCY ANTENNA. CERTIFIED ANTENNA PROFESSIONAL SHALL PERFORM ALL OF THE DISCONNECTIONS AND RE-CONNECTIONS OF ANTENNAS AS NECESSARY. G.C. SHALL CONSULT AND COORDINATE ALL WORK WITH OWNER PRIOR TO COMMENCING WORK.
CONTRACTOR'S ANTENNA VENDOR SHALL BE EXPERIENCED IN THE ERECTION OF MAST ANTENNA SYSTEMS, AND/OR REGULARLY ENGAGED IN THE MAINTENANCE OF MAST ANTENNA SYSTEMS AND BE ABLE TO DEMONSTRATE THAT HE/SHE HAS SUCCESSFULLY PERFORMED ON COMPARABLE PROJECTS OVER THE PREVIOUS FIVE (5) YEARS. ANTENNA SHALL REMAIN OPERATIONAL AT ALL TIMES. ALL ABANDONDED CABLING LOCATED ON THE ROOF WILL BE REMOVED & DISPOSED BY THE OWNER.

NOTE:
REMOVE & DISPOSE EXISTING LEAD-COATED COPPER FLASHING. PROVIDE NEW L.C.C. FLASHING. NEW FLASHING SHALL BE MIN. 12" ABOVE NEW ROOFING ASSEMBLY, IF NOT, CONSULT ARCHITECT PRIOR TO BEGINNING WORK. TYPICAL THROUGHOUT PROJECT.

D / A5.1 TYP. REGLET DETAIL

SCALE: 3" = 1'-0"

NOTE:
UNFASTEN EXISTING FLASHING, CUT EXISTING FLASHING. PROVIDE NEW MTL. FLASHING TO MATCH EXISTING-SOLDER ALL JOINTS.

NOTE:
CONTRACTOR SHALL SUBMIT IN HIS BASE BID, COST TO PROVIDE ALL NEW LEAD-COATED COPPER (L.C.C.) FLASHINGS; HOWEVER, CONTRACTOR MAY SUBSTITUTE THIS DETAIL IN LIEU OF REMOVING EXISTING THROUGH-WALL FLASHING, ONLY WITH THE WRITTEN APPROVAL OF THE ARCHITECT. CONTRACTOR AND ARCHITECT SHALL INSPECT CONDITION OF FLASHINGS AND HEIGHTS ABOVE THE ROOF DECK AFTER EXISTING ROOFING ASSEMBLY IS REMOVED. IT IS MORE THAN LIKELY THAT ARCHITECT WILL REQUIRE THE REMOVAL & DISPOSAL OF ALL L.C.C. FLASHINGS.

E / A5.1 TYP. EXISTING/NEW FLASHING DETAIL

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

THIS DETAIL SHALL NOT BE USED WITHOUT WRITTEN CONSENT OF ARCHITECT- SEE NOTE ABOVE.

PROVIDE NEW "LADDER-UP" TELESCOPING STEEL SAFETY POST FASTENED TO EXISTING ROOF ACCESS STEEL LADDER IN ACCORDANCE WITH MANUFACTURERS SPECIFICATIONS. "LADDER-UP" MODEL TO BE "LU-1", AS MANUFACTURED BY "BILCO".

G.C. SHALL DEMOLISH, REMOVE AND DISPOSE OF EXISTING WIRE-GLASS/ COPPER "DOG-HOUSE" AND CURB IN THEIR ENTIRETY. PROVIDE NEW "BILCO" "L-50" SINGLE LEAF INSULATED ROOF HATCH AT SAME LOCATION. G.C. SHALL PROVIDE NEW ASSEMBLY AS SHOWN OR DESCRIBED HEREIN. FIELD VERIFY EXISTING OPENING PRIOR TO ORDERING. PLEASE REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.

F / A5.1 ROOF HATCH DETAIL

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

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DRAWING NAME:
ROOF DETAILS

DRAWING NUMBER:
A5.1
SHEET 6 OF 6

COMMENTS:
ISSUED FOR BID