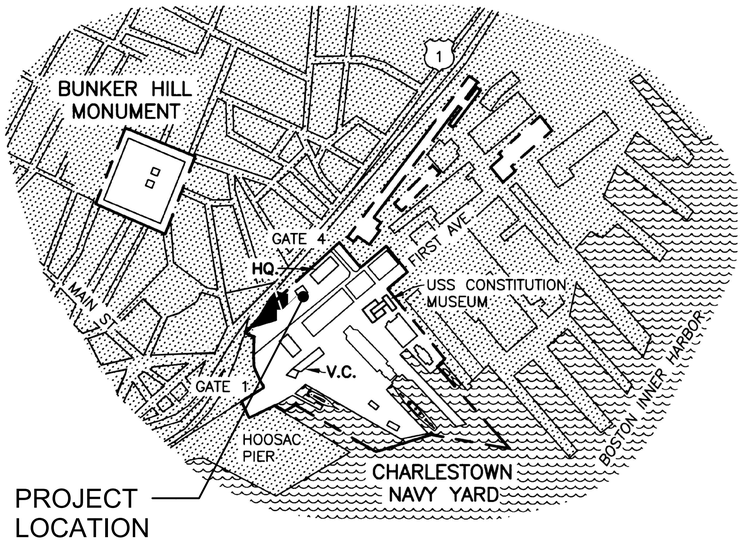
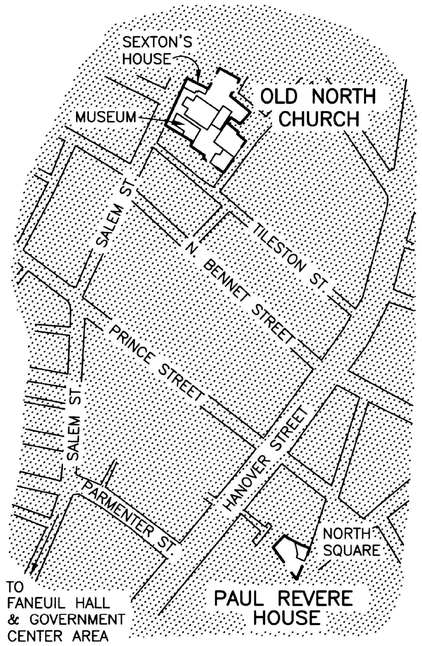
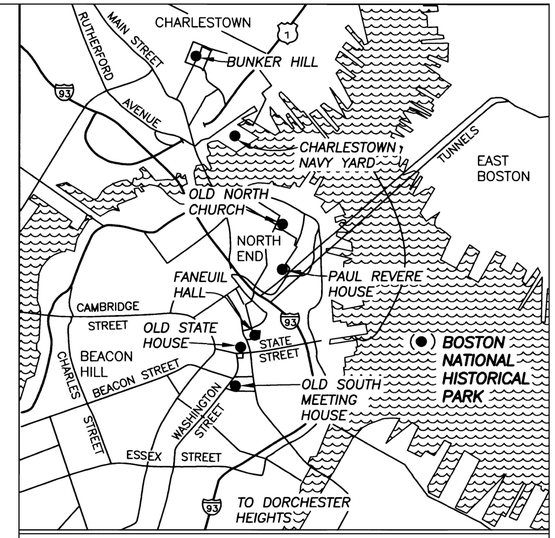




LEGEND

— — —	HISTORICAL PARK BOUNDARY
V.C.	VISITOR CENTER
HQ.	PARK HEADQUARTERS



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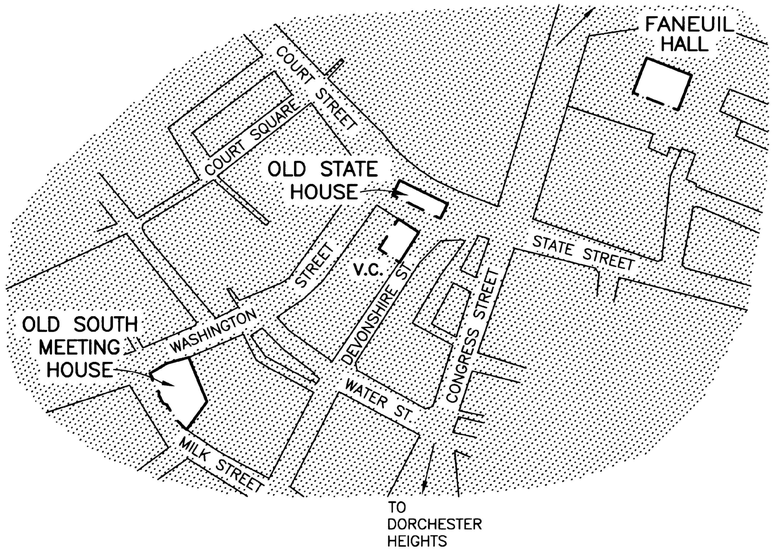

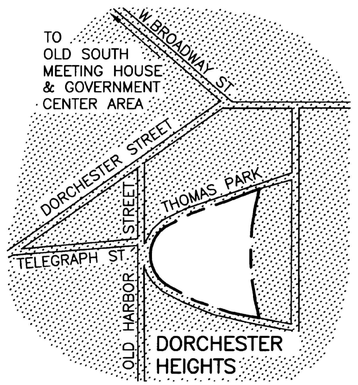

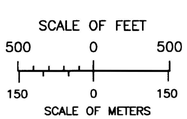

BOSTON NATIONAL HISTORICAL PARK

07/22/2022

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Waltham, MA 02451
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BOSTON, MA 02111

Mark	Sheet	REVISION	Date	Initial

QUALITY DESIGN CERTIFICATION

- ☐ Prepared in Accordance with Design Development (Title I) — Date
- OR
- ☐ Variance from Design Development (Title I) Approved by Superintendent on — Date
- OR
- ☐ Construction Drawing Not Preceded By Design Development (Title I)
- Project Manager — Date

NOT FOR CONSTRUCTION
100% FINAL WORKING SET

UNITED STATES
DEPARTMENT OF THE INTERIOR

NATIONAL PARK SERVICE
DENVER SERVICE CENTER

TITLE OF PROJECT
COMMANDANT'S HOUSE MASONRY AND ROOFING REPAIRS
LOCATION WITHIN PARK
CHARLESTOWN NAVY YARD
NAME OF PARK
BOSTON NATIONAL HISTORIC PARK

REGION: NORTH ATLANTIC
COUNTY: SUFFOLK
STATE: MASSACHUSETTS

DRAWING NO. 457 / 179754
PMIS/PKG NO. BOST 180054
SHEET 1 OF 11

GENERAL NOTES

1. AUTHORITY OF ARCHITECT/ENGINEER/SER WILL BE DELEGATED FROM NPS CONTRACTING OFFICER (CO).
   1.a. ALL FIELD COMMUNICATIONS FROM CONTRACTOR MUST BE SUBMITTED TO THE CO.
   1.b. ALL FIELD APPROVALS MUST BE ISSUED TO CONTRACTOR THROUGH THE CO OR CONTRACTING OFFICER'S REP (COR).
2. GOVERNING CODE: MASSACHUSETTS STATE BUILDING CODE (780 CMR), 9TH EDITION.
3. THE BUILDING WILL REMAIN OPEN TO THE PUBLIC DURING CONSTRUCTION AND THE MAIN ENTRY, EMERGENCY EXIT, AND FIRE DEPARTMENT WATER CONNECTION, MUST REMAIN UNOBSTRUCTED AND ACCESSIBLE AT ALL TIMES THROUGHOUT CONSTRUCTION.
4. INFORMATION ON PERMISSIBLE WORK HOURS, STAGING AND STORAGE AREAS, AND OTHER LOGISTICAL QUESTIONS WILL BE DESIGNATED AT A PRE-CONSTRUCTION MEETING.
5. THE BUILDING IS HISTORIC, AND ALL EXTERIOR WORK IS SUBJECT TO REVIEW AND APPROVAL BY THE NATIONAL PARK SERVICE CONTRACTING OFFICER (CO). THE INTENT OF THE WORK IS TO REPAIR THE FACADE IN-KIND, WITH MATERIALS THAT MATCH THE EXISTING HISTORIC MATERIALS AS CLOSELY AS POSSIBLE IN COMPOSITION, COLOR, TEXTURE, AND OVERALL APPEARANCE.
6. ALL LOCATIONS INDICATED FOR REPAIR ARE APPROXIMATE AND BASED ON PRIOR SURVEY OF THE FACADE. THE FINAL, ACTUAL LOCATIONS AND QUANTITIES FOR REPAIR WILL BE BASED ON HANDS-ON SURVEY BY THE HISTORIC PRESERVATION TREATMENT SPECIALIST AND SUBMITTED WITH THE HISTORIC PRESERVATION TREATMENT PLAN FOR APPROVAL BY THE CONTRACTING OFFICER PER SECTION 01 35 91 – HISTORIC PRESERVATION TREATMENT PROCEDURES.
7. ALL MATERIALS INDICATED ON THESE DRAWINGS ARE NEW, UNLESS SPECIFICALLY NOTED AS EXISTING.
8. ALL EXISTING BUILDING DIMENSIONS, WHERE PROVIDED, ARE APPROXIMATE AND SHALL BE VERIFIED BY THE CONTRACTOR IN THE FIELD. NOTIFY THE CONTRACTING OFFICER OF ANY INCONSISTENCIES THAT AFFECT THE WORK WITH SUFFICIENT TIME TO PREVENT DELAY OF THE WORK.
9. TEST FOR HAZARDOUS MATERIALS, OBTAIN PROPER PERMITS AND FOLLOW ALL REQUIRED PROCEDURES FOR WORKING WITH, REMOVAL, AND DISPOSAL OF HAZARDOUS MATERIALS.

OVERVIEW SUMMARY SCOPE OF WORK

THIS OVERVIEW SUMMARY SCOPE OF WORK IS PROVIDED FOR THE CONVENIENCE OF THE CONTRACTOR, AS AN INTRODUCTORY OVERVIEW TO THE FULL SCOPE OF WORK DESCRIBED IN THE DRAWINGS AND SPECIFICATIONS. THOROUGHLY REVIEW THE DRAWINGS AND SPECIFICATIONS, WHICH SUPERSEDE THIS OVERVIEW SUMMARY, FOR THE FULL SCOPE OF WORK.

1. COORDINATE WITH THE CITY OF BOSTON AND THE NATIONAL PARK SERVICE, AND OBTAIN ALL PERMITS NECESSARY FOR THE WORK.
2. MOBILIZE THE SITE AND PROVIDE ANY AND ALL EQUIPMENT NECESSARY TO ACCESS THE FACADE AND COMPLETE THE WORK.
3. PROVIDE CONTRACTING OFFICER AND CO WITH ACCESS TO THE FACADE AND ROOF THROUGHOUT CONSTRUCTION, INCLUDING ACCESS TO WHATEVER MEANS ARE USED BY THE CONTRACTOR TO ACCESS THE FACADE AND ROOF (E.G., SCAFFOLD, AERIAL LIFTS, ETC.).
4. COMPLETE MULTIPLE ROUNDS OF MOCKUPS PER THE SPECIFICATIONS TO DEVELOP ACCEPTABLE MASONRY CLEANING AND REPAIRS THAT DO NOT CAUSE DAMAGE AND THAT MATCH THE EXISTING MASONRY COLOR, TEXTURE, COMPOSITION, FOR REVIEW AND APPROVAL BY CO. DO NOT PROCEED WITH MASONRY REPAIRS, OR CLEANING ON THE FACADE AS A WHOLE UNTIL MOCK-UPS ARE APPROVED BY THE CO.
5. UNDERTAKE AND COMPLETE THE FOLLOWING REPAIRS, AS INDICATED IN THE DRAWINGS AND SPECIFICATIONS, AFTER APPROVAL OF EACH RESPECTIVE MOCK-UP BY CO:
   5.1. PERFORM LOCALIZED REPAIRS AT THE BRICK AND GRANITE MASONRY.
   5.2. PERFORM LOCALIZED REPAIRS OF THE SLATE ROOFING AND ASSOCIATED FLASHING.
   5.3. PERFORM LOCALIZED REPAIRS OF THE CONCRETE.
6. COMPLETE ALL PUNCHLIST ITEMS PRIOR TO DEMOBILIZING FROM THE SITE.
7. DEMOBILIZE FROM THE SITE, PROVIDE FINAL CLEANING OF ALL WORK AND LAY DOWN AREAS, AND RESTORE/REPLACE ANY DAMAGE TO THE BUILDING, SITE OR LANDSCAPING, INCLUDING ANY SIDEWALKS, GRASS, PLANTS, ETC.

SYMBOLS

1 / A4 — SECTION NUMBER WITH SHEET REFERENCE

ABBREVIATIONS

ALT.	ALTERNATE
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS
AB	ANCHOR BOLT
@	AT
AVB	AIR VAPOR BARRIER
BAL.	BALANCE
B OR BOT.	BOTTOM
BEW	BOTTOM EACH WAY
CIP	CAST-IN-PLACE
CG	CENTER OF GRAVITY
℄	CENTERLINE
C.O.	CONTRACTING OFFICER
C.O.R.	C.O.'S REPRESENTATIVE
ARCH.	CLEAR
COL.	COLUMN
CONC.	CONCRETE
CMU	CONCRETE MASONRY UNIT
CONST. JT. OR CJ	CONSTRUCTION JOINT
CONT.	CONTINUOUS
DEPR.	DEPRESSION
DET.	DETAIL
DIA. OR ø	DIAMETER
DIM.	DIMENSION
DIR.	
DN	DOWN
DWG	DRAWING
(E)	EXISTING
EA.	EACH
E	EAST
EL.	ELEVATION
ELEV.	ELEVATOR
EQ.	EQUAL
EXP. JT OR EJ	EXPANSION JOINT
EXT.	EXTERIOR
EPDM	ETHYLENE PROPYLENE DIENE MONOMER
FF	FAR FACE
FT OR '	FEET
FIN.	FINISH
GALV.	GALVANIZED
GA	GAUGE
GENL	GENERAL
HP	HIGH POINT
HS	HIGH STRENGTH
H OR HORIZ.	HORIZONTAL
HEF	HORIZONTAL EACH FACE
HIF	HORIZONTAL INSIDE FACE
HOF	HORIZONTAL OUTSIDE FACE
IN. OR "	INCH
GR.	INCLUSIVE OR INCLUDING
INFO.	INFORMATION
IGU	INSULATING GLASS UNIT
JT	JOINT
LCC	LEAD COATED COPPER
LE	LEFT END
LRFD	LOAD & RESISTANCE FACTOR DESIGN
LLH	LONG LEG HORIZONTAL
LLV	LONG LEG VERTICAL
LM	LIQUID MEMBRANE
MFR	MANUFACTURER
MATL	MATERIAL
MAX.	MAXIMUM
MECH.	MECHANICAL
MINIMUM	
(N)	NEW
NF	NEAR FACE
NIC	NOT IN CONTRACT
N	NORTH
NTS	NOT TO SCALE
NO. OR #	NUMBER
OC	ON CENTER
OD	OUTER DIAMETER
OPT. (A/B)	OPTION A / OPTION B
PC	PIECE
PLF	POUNDS/LINEAR FOOT
PVC	POLYVINYL CHLORIDE
P/C	PRE-CAST
REF.	REFERENCE
REINF.	REINFORCE OR REINFORCEMENT
REM.	REMAINDER
RE	RIGHT END
RD	ROOF DRAIN
SAM	SELF ADHERED MEMBRANE
SECT.	SECTION
SLV	SHORT LEG VERTICAL
SIM.	SIMILAR
SF	SQUARE FOOT
S	SOUTH
SQ.	SQUARE
SS	STAINLESS STEEL
STD	STANDARD
STL	STEEL
STR.	STRUCTURAL
SP	SUMP PIT
SPF	SPRAY-APPLIED POLYURETHANE FOAM
SUP.	SUPPORT
T	TOP
T&B	TOP & BOTTOM
TYP.	TYPICAL
TERM. BAR	TERMINATION BAR
UON	UNLESS OTHERWISE NOTED
V OR VERT.	VERTICAL
VEF	VERTICAL EACH FACE
VIF	VERTICAL INSIDE FACE
VIF	VERIFY IN FIELD
VOF	VERTICAL OUTSIDE FACE
VB	VAPOR BARRIER
VR	VAPOR RETARDER
W	WEST
W/	WITH
WRB	WEATHER RESISTANT BARRIER

UNIT PRICE QUANTITIES TO BE INCLUDED IN THE BASE BID			
ITEM NO.	ITEM	QUANTITY	UNIT
(1)	LOCALIZED MASONRY CLEANING TO REMOVE STAINING	28 (EACH APPROX. 20 SF)	LOCATION
(2)	REPOINT MORTAR JOINTS, REFER TO 1/EN-201	3000	SF
(3)	REPLACE INDIVIDUAL SPALLED AND CRACKED BRICKS OR BRICK WITH EMBEDDED FERROUS MATERIAL, REFER TO 2/EN-201	250	EA
(4)	REMOVE EMBEDDED FERROUS MATERIAL AND REPAIR WITH MORTAR FOR GRANITE MASONRY, REFER TO 3/EN-201	10	EA
(5)	CLEAN AND RE-SOLDER CRACKED SOLDER JOINTS IN RED COPPER FLASHING AT ROOF EAVE	50	LF
(6)	PATCH HOLES IN RED COPPER GUTTER, REFER TO 5/EN-203	5	EA
(7)	REPLACE MISSING LOOSE OR CRACKED SLATE SHINGLE ROOF TILES, REFER TO 1 AND 2/EN-200	50	EA
(8)	REPAIR CRACKS IN CONCRETE, REFER TO 2/EN-202	10	LF
(10)	REPAIR SPALLS IN CONCRETE, REFER TO 1/EN-202	15	EA
(11)	PROVIDE NEW SELF-ADHERING, UNCURED EPDM MEMBRANE STRIPS AT TRANSVERSE JOINTS IN THE GUTTER, REFER TO 1/EN-203	15	EA

A SUMMARY OF THE QUANTITIES TO BE CARRIED IN THE BASE BID IS INCLUDED IN THE TABLE ABOVE FOR PRICING AND BIDDING PURPOSES, USE THE QUANTITIES IN THE TABLE, DO NOT TAKE-OFF QUANTITIES FROM ELEVATION SHEETS.

100% FINAL WORKING SET
NOT FOR CONSTRUCTION

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BOSTON, MA 02111

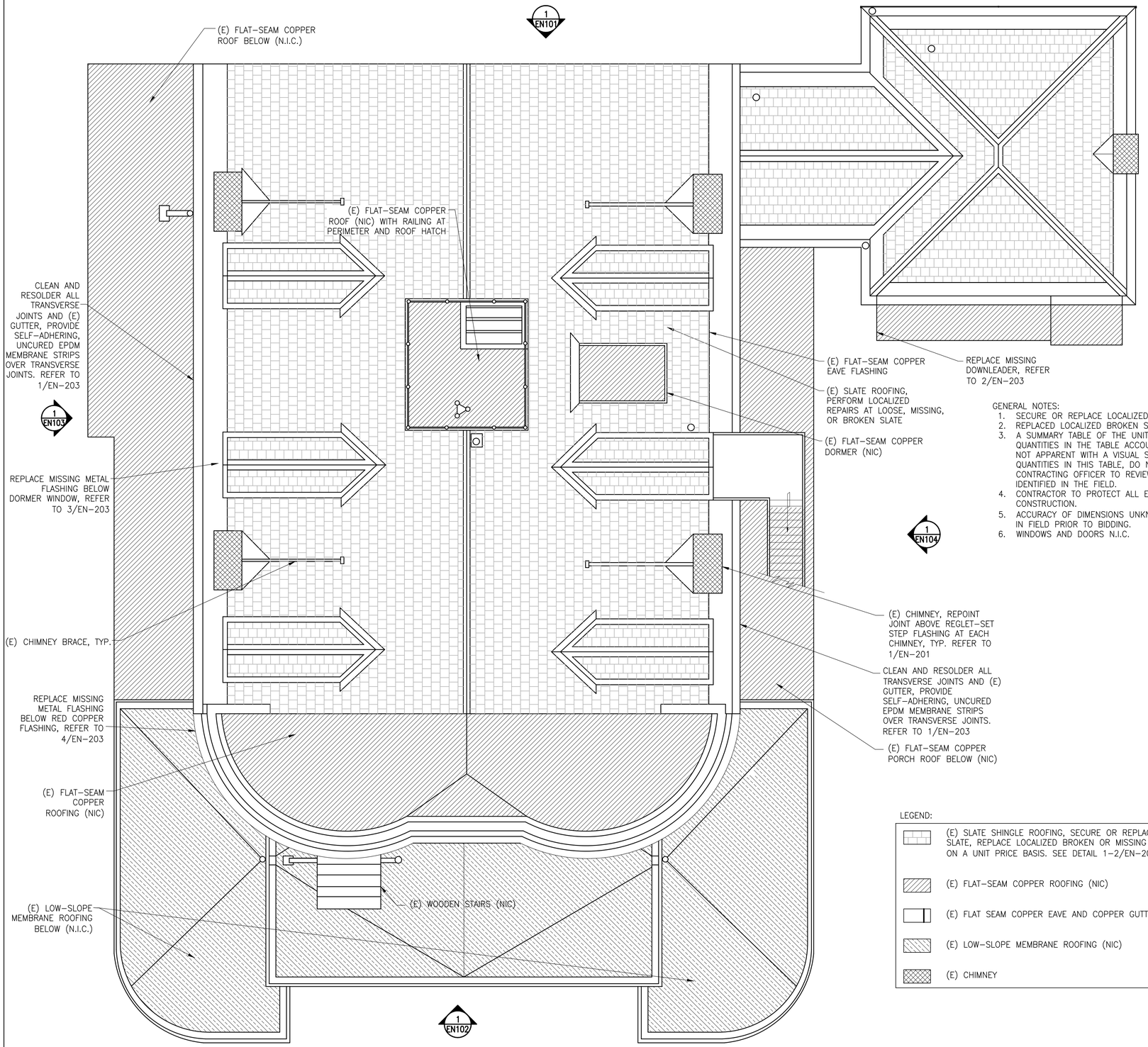
DESIGNED: RML/JCD
DRAWN: RML
TECH. REVIEW: -
DATE: 07/22/22

SUB SHEET NO. G-002

TITLE OF SHEET
NOTES, SYMBOLS AND ABBREVIATIONS

COMMANDANT'S HOUSE MASONRY AND ROOFING REPAIRS
BOSTON NATIONAL HISTORIC PARK

DRAWING NO. 457 / 179754



1 ROOF PLAN
0'-1/4" = 1'-0"

GENERAL NOTES:
1. SECURE OR REPLACE LOCALIZED LOOSE SLATE.
2. REPLACED LOCALIZED BROKEN SLATE.
3. A SUMMARY TABLE OF THE UNIT PRICE QUANTITIES IS FOUND ON SHEET G-002. QUANTITIES IN THE TABLE ACCOUNT FOR ADDITIONAL REPAIR LOCATIONS AND QUANTITIES NOT APPARENT WITH A VISUAL SURVEY. FOR PRICING AND BIDDING PURPOSES, USE THE QUANTITIES IN THIS TABLE, DO NOT TAKE-OFF QUANTITIES FROM ELEVATION SHEETS. CONTRACTING OFFICER TO REVIEW AND DIRECT ANY ADDITIONAL REPAIR LOCATIONS IDENTIFIED IN THE FIELD.
4. CONTRACTOR TO PROTECT ALL EXISTING N.I.C. FACADE AND ROOF AREAS DURING CONSTRUCTION.
5. ACCURACY OF DIMENSIONS UNKNOWN, BASED ON (E) DRAWINGS. CONTRACTOR TO VERIFY IN FIELD PRIOR TO BIDDING.
6. WINDOWS AND DOORS N.I.C.

LEGEND:

- (E) SLATE SHINGLE ROOFING, SECURE OR REPLACE LOOSE SLATE, REPLACE LOCALIZED BROKEN OR MISSING SLATE ON A UNIT PRICE BASIS. SEE DETAIL 1-2/EN-200
- (E) FLAT-SEAM COPPER ROOFING (NIC)
- (E) FLAT SEAM COPPER EAVE AND COPPER GUTTER
- (E) LOW-SLOPE MEMBRANE ROOFING (NIC)
- (E) CHIMNEY

PLAN NORTH

4' 2' 0' 4' 8' 12'
SCALE IN FEET - 1/4" = 1'-0"

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DESIGNED: RML/JCD
DRAWN: RML
TECH. REVIEW: -
DATE: 07/22/22

SUB SHEET NO.
EN-100

TITLE OF SHEET
ROOF PLAN

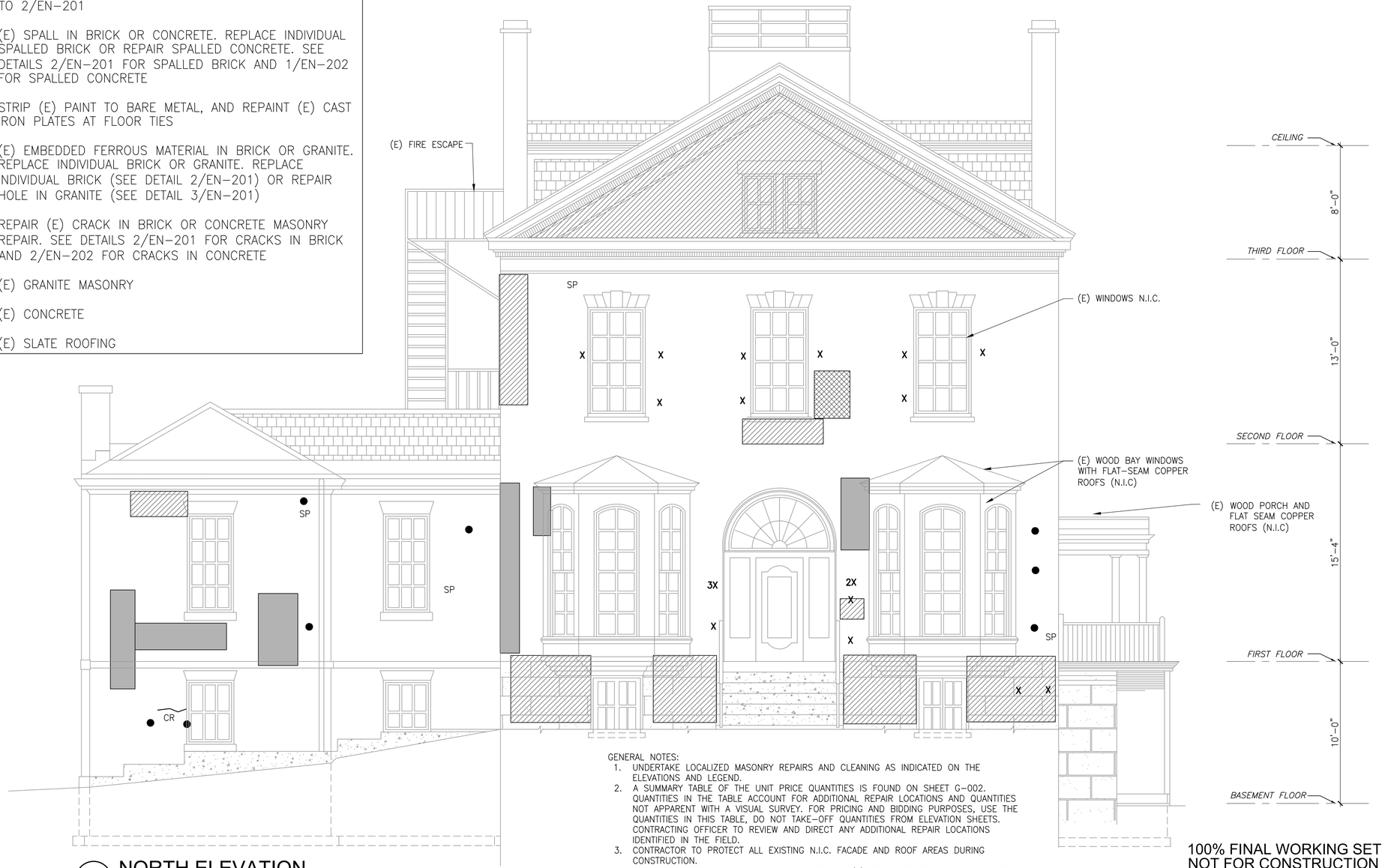
COMMANDANT'S HOUSE MASONRY AND ROOFING REPAIRS
BOSTON NATIONAL HISTORIC PARK

DRAWING NO.
457
179754

SHEET
3 OF 11

LEGEND:

- PERFORM LOCALIZED CLEANING OF THE (E) MASONRY TO REMOVE EFFLORESCENCE, AND/OR DARK BIOLOGICAL STAINING
- REPOINT MORTAR JOINTS IN BRICK AND GRANITE MASONRY WITH CUSTOM, SITE-MIXED MORTAR TO MATCH EXISTING ADJACENT MORTAR, REFER TO 1/EN-201
- REPLACE SPALLED BRICKS WITHIN THE REPAIR AREA WITH BRICKS TO MATCH EXISTING ADJACENT MASONRY, REFER TO 2/EN-201
- SP — (E) SPALL IN BRICK OR CONCRETE. REPLACE INDIVIDUAL SPALLED BRICK OR REPAIR SPALLED CONCRETE. SEE DETAILS 2/EN-201 FOR SPALLED BRICK AND 1/EN-202 FOR SPALLED CONCRETE
- ● — STRIP (E) PAINT TO BARE METAL, AND REPAINT (E) CAST IRON PLATES AT FLOOR TIES
- X — (E) EMBEDDED FERROUS MATERIAL IN BRICK OR GRANITE. REPLACE INDIVIDUAL BRICK OR GRANITE. REPLACE INDIVIDUAL BRICK (SEE DETAIL 2/EN-201) OR REPAIR HOLE IN GRANITE (SEE DETAIL 3/EN-201)
- CR — REPAIR (E) CRACK IN BRICK OR CONCRETE MASONRY REPAIR. SEE DETAILS 2/EN-201 FOR CRACKS IN BRICK AND 2/EN-202 FOR CRACKS IN CONCRETE
- (E) GRANITE MASONRY
- (E) CONCRETE
- (E) SLATE ROOFING



1 NORTH ELEVATION
0'-1/4" = 1'-0"

GENERAL NOTES:

1. UNDERTAKE LOCALIZED MASONRY REPAIRS AND CLEANING AS INDICATED ON THE ELEVATIONS AND LEGEND.
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5. WINDOWS, DOORS, WOOD PORCH AND FIRE ESCAPE N.I.C.

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DESIGNED:	RML/JCD
DRAWN:	RML
TECH. REVIEW:	-
DATE:	07/22/22
SUB SHEET NO.	EN-101
TITLE OF SHEET	NORTH ELEVATION
DRAWING NO.	457 / 179754
SHEET	4 OF 11

COMMANDANT'S HOUSE MASONRY AND ROOFING REPAIRS
BOSTON NATIONAL HISTORIC PARK

GENERAL NOTES:

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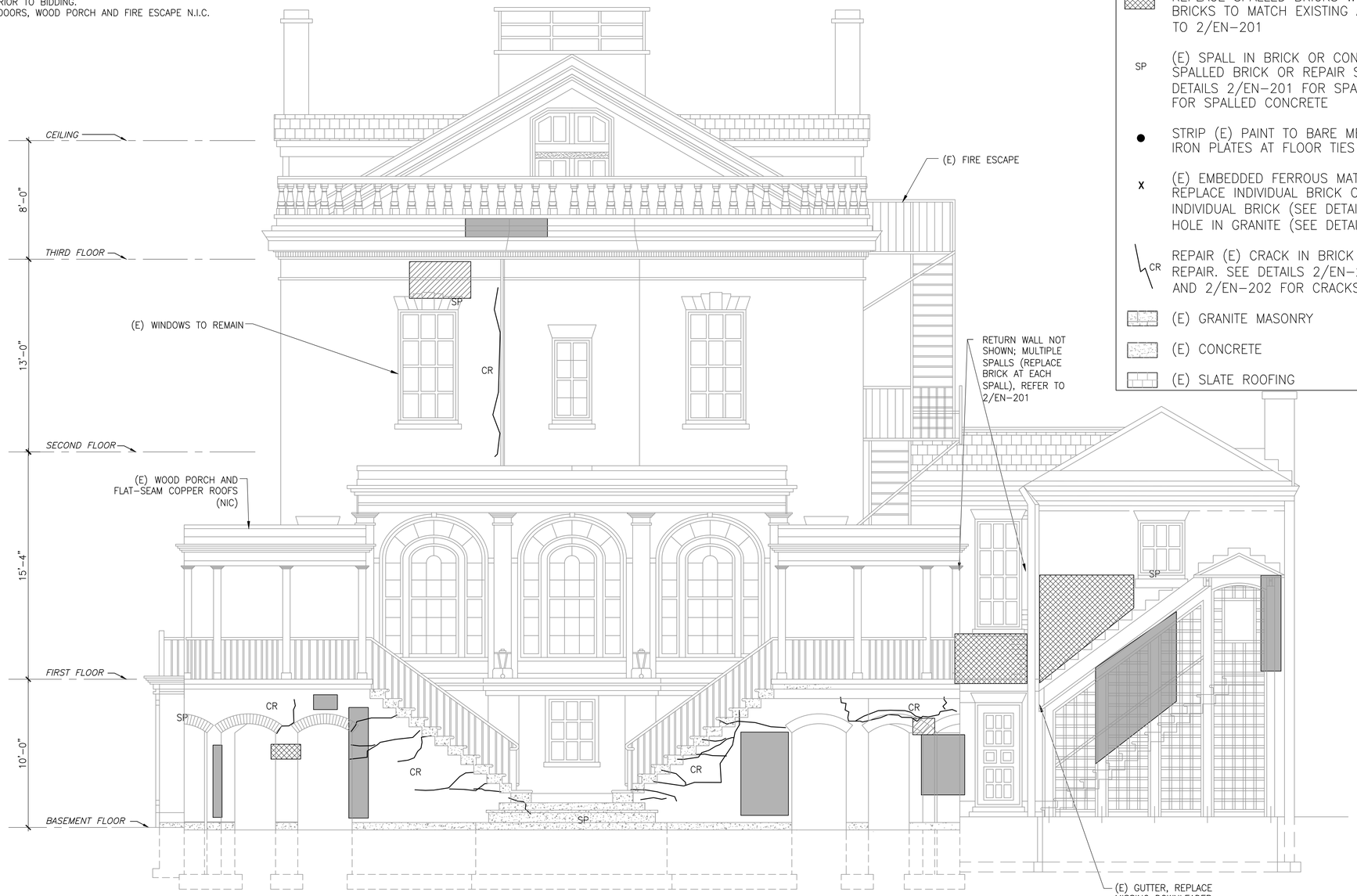

LEGEND:

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- REPOINT MORTAR JOINTS IN BRICK AND GRANITE MASONRY WITH CUSTOM, SITE-MIXED MORTAR TO MATCH EXISTING ADJACENT MORTAR, REFER TO 1/EN-201
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- (E) GRANITE MASONRY
- (E) CONCRETE
- (E) SLATE ROOFING

1 SOUTH ELEVATION
0'-1/4" = 1'-0"

100% FINAL WORKING SET
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DESIGNED: RML/JCD
DRAWN: RML
TECH. REVIEW: -
DATE: 07/22/22

SUB SHEET NO. EN-102

TITLE OF SHEET
SOUTH ELEVATION

COMMANDANT'S HOUSE MASONRY AND ROOFING REPAIRS
BOSTON NATIONAL HISTORIC PARK

DRAWING NO. 457 179754

SHEET 5 OF 11

GENERAL NOTES:

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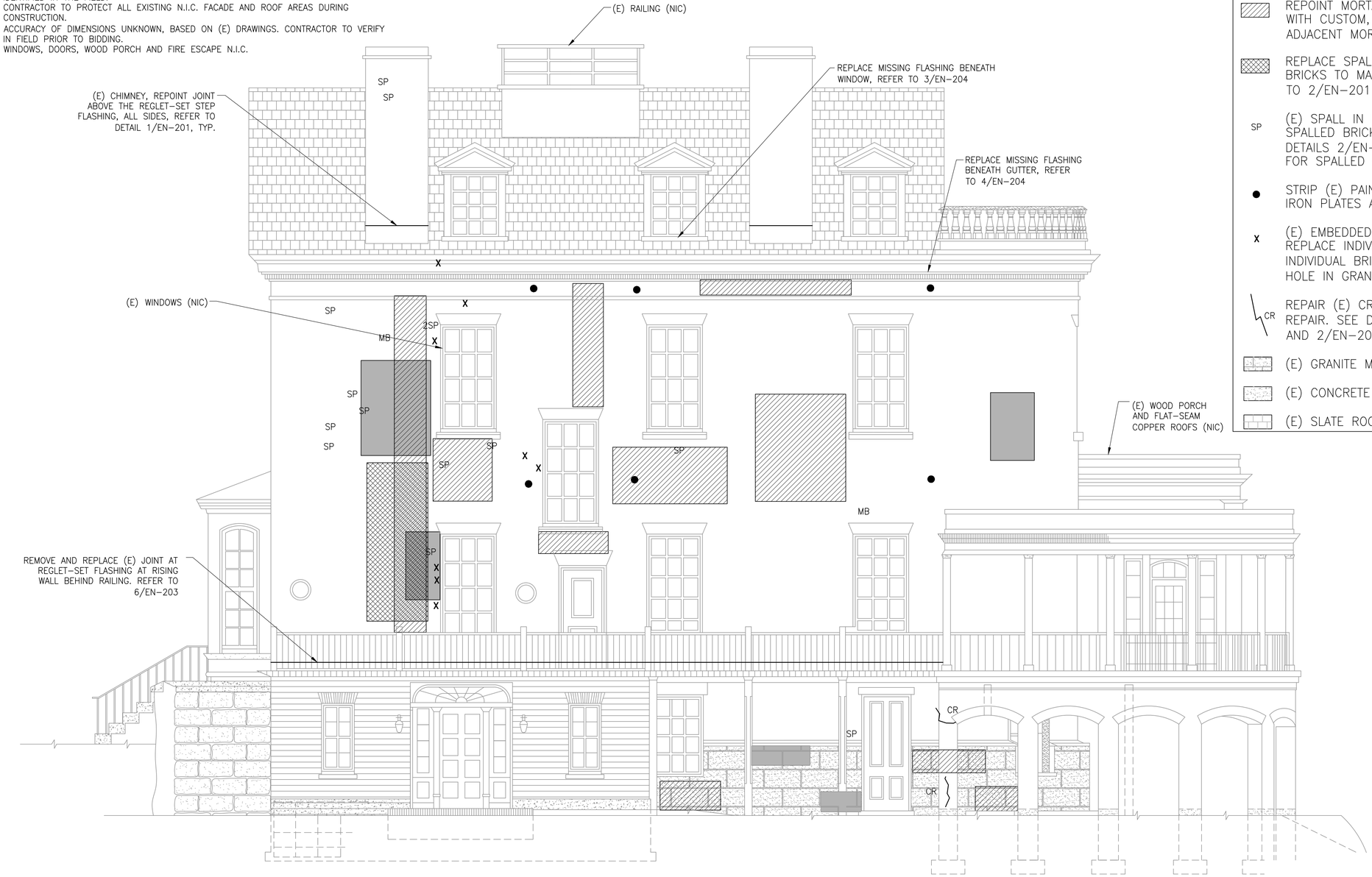

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- REPLACE SPALLED BRICKS WITHIN THE REPAIR AREA WITH BRICKS TO MATCH EXISTING ADJACENT MASONRY, REFER TO 2/EN-201
- SP — (E) SPALL IN BRICK OR CONCRETE. REPLACE INDIVIDUAL SPALLED BRICK OR REPAIR SPALLED CONCRETE. SEE DETAILS 2/EN-201 FOR SPALLED BRICK AND 1/EN-202 FOR SPALLED CONCRETE
- ● STRIP (E) PAINT TO BARE METAL, AND REPAINT (E) CAST IRON PLATES AT FLOOR TIES
- X (E) EMBEDDED FERROUS MATERIAL IN BRICK OR GRANITE. REPLACE INDIVIDUAL BRICK OR GRANITE. REPLACE INDIVIDUAL BRICK (SEE DETAIL 2/EN-201) OR REPAIR HOLE IN GRANITE (SEE DETAIL 3/EN-201)
- CR — REPAIR (E) CRACK IN BRICK OR CONCRETE MASONRY REPAIR. SEE DETAILS 2/EN-201 FOR CRACKS IN BRICK AND 2/EN-202 FOR CRACKS IN CONCRETE
- (E) GRANITE MASONRY
- (E) CONCRETE
- (E) SLATE ROOFING

1 WEST ELEVATION

0'-1/4" = 1'-0"

100% FINAL WORKING SET
NOT FOR CONSTRUCTION

SIMPSON GUMPERTZ & HEGER
480 Totten Pond Road
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DESIGNED: RML/JCD
DRAWN: RML
TECH. REVIEW: -
DATE: 07/22/22

SUB SHEET NO. EN-103

TITLE OF SHEET
WEST ELEVATION

COMMANDANT'S HOUSE MASONRY AND ROOFING REPAIRS
BOSTON NATIONAL HISTORIC PARK

DRAWING NO. 457 179754

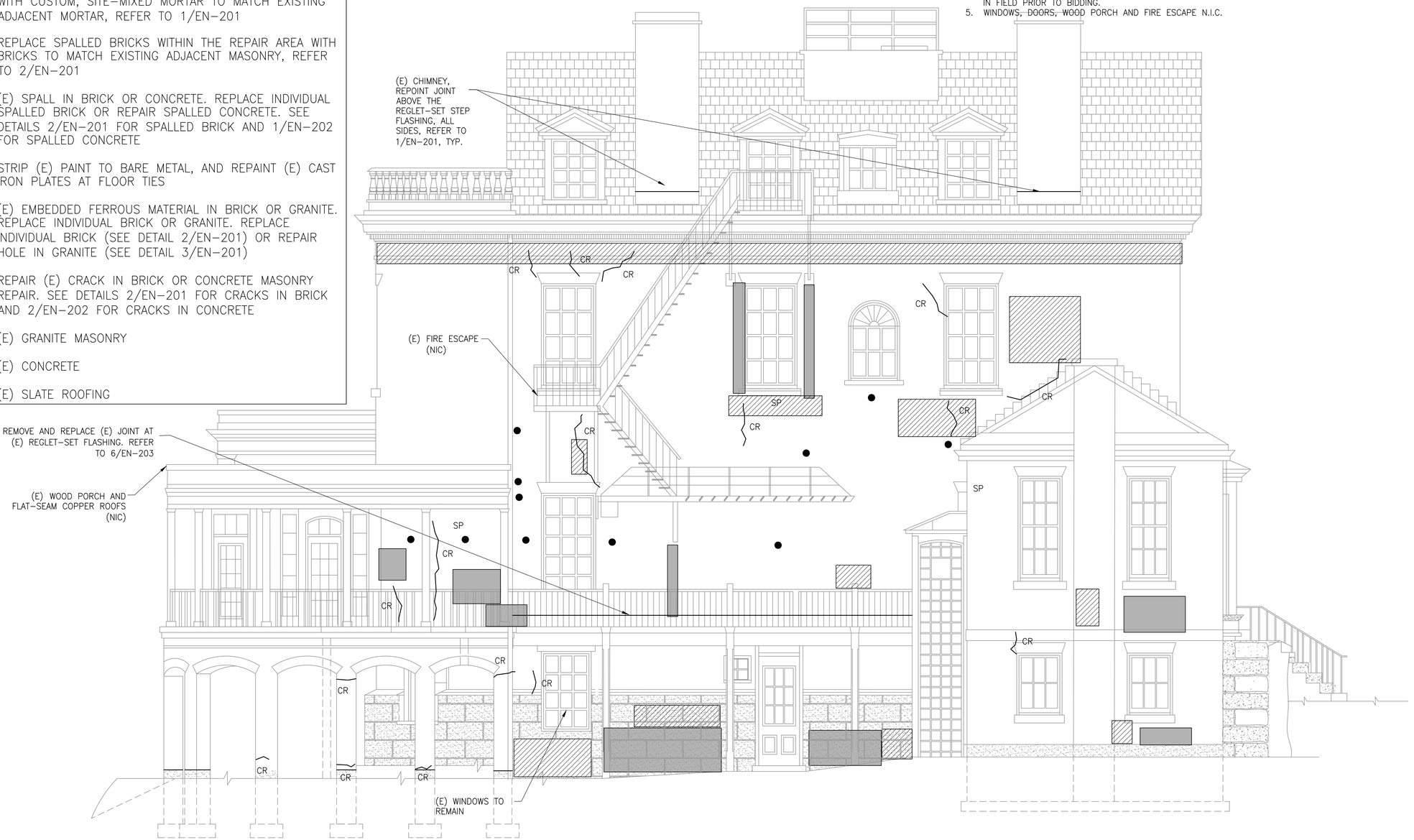
SHEET 6 OF 11

LEGEND:

- PERFORM LOCALIZED CLEANING OF THE (E) MASONRY TO REMOVE EFFLORESCENCE, AND/OR DARK BIOLOGICAL STAINING
- REPOINT MORTAR JOINTS IN BRICK AND GRANITE MASONRY WITH CUSTOM, SITE-MIXED MORTAR TO MATCH EXISTING ADJACENT MORTAR, REFER TO 1/EN-201
- REPLACE SPALLED BRICKS WITHIN THE REPAIR AREA WITH BRICKS TO MATCH EXISTING ADJACENT MASONRY, REFER TO 2/EN-201
- SP — (E) SPALL IN BRICK OR CONCRETE. REPLACE INDIVIDUAL SPALLED BRICK OR REPAIR SPALLED CONCRETE. SEE DETAILS 2/EN-201 FOR SPALLED BRICK AND 1/EN-202 FOR SPALLED CONCRETE
- ● STRIP (E) PAINT TO BARE METAL, AND REPAINT (E) CAST IRON PLATES AT FLOOR TIES
- X — (E) EMBEDDED FERROUS MATERIAL IN BRICK OR GRANITE. REPLACE INDIVIDUAL BRICK OR GRANITE. REPLACE INDIVIDUAL BRICK (SEE DETAIL 2/EN-201) OR REPAIR HOLE IN GRANITE (SEE DETAIL 3/EN-201)
- CR — REPAIR (E) CRACK IN BRICK OR CONCRETE MASONRY REPAIR. SEE DETAILS 2/EN-201 FOR CRACKS IN BRICK AND 2/EN-202 FOR CRACKS IN CONCRETE
- (E) GRANITE MASONRY
- (E) CONCRETE
- (E) SLATE ROOFING

GENERAL NOTES:

1. UNDERTAKE LOCALIZED MASONRY REPAIRS AND CLEANING AS INDICATED ON THE ELEVATIONS AND LEGEND.
2. A SUMMARY TABLE OF THE UNIT PRICE QUANTITIES IS FOUND ON SHEET G-002. QUANTITIES IN THE TABLE ACCOUNT FOR ADDITIONAL REPAIR LOCATIONS AND QUANTITIES NOT APPARENT WITH A VISUAL SURVEY. FOR PRICING AND BIDDING PURPOSES, USE THE QUANTITIES IN THIS TABLE, DO NOT TAKE-OFF QUANTITIES FROM ELEVATION SHEETS. CONTRACTING OFFICER TO REVIEW AND DIRECT ANY ADDITIONAL REPAIR LOCATIONS IDENTIFIED IN THE FIELD.
3. CONTRACTOR TO PROTECT ALL EXISTING N.I.C. FACADE AND ROOF AREAS DURING CONSTRUCTION.
4. ACCURACY OF DIMENSIONS UNKNOWN, BASED ON (E) DRAWINGS. CONTRACTOR TO VERIFY IN FIELD PRIOR TO BIDDING.
5. WINDOWS, DOORS, WOOD PORCH AND FIRE ESCAPE N.I.C.



1 EAST ELEVATION
0'-1/4" = 1'-0"

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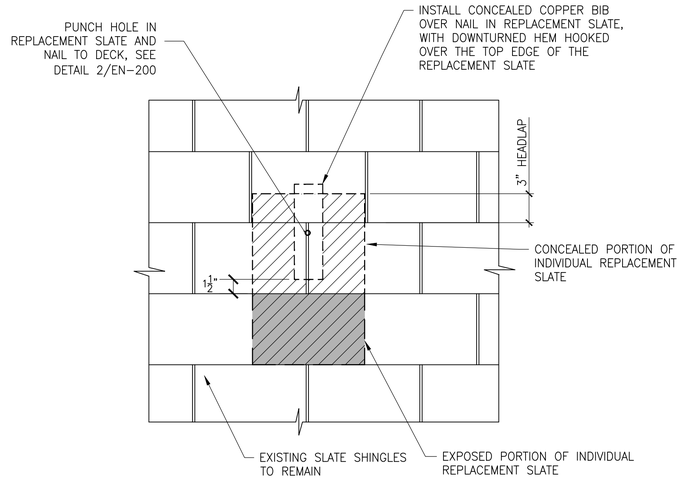
SUB SHEET NO. EN-104

TITLE OF SHEET
EAST ELEVATION

COMMANDANT'S HOUSE MASONRY AND ROOFING REPAIRS
BOSTON NATIONAL HISTORIC PARK

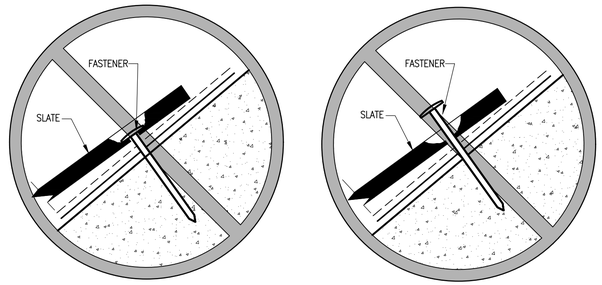
DRAWING NO. 457 179754

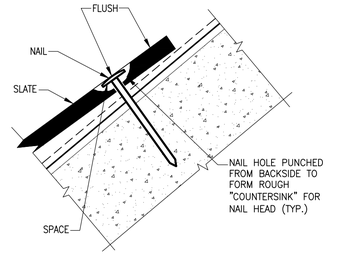
SHEET 7 OF 11



1 TYPICAL INDIVIDUAL SLATE SHINGLE REPLACEMENT - ELEVATION

N.T.S.





REQUIRED: – NAIL FLUSH WITH TOP OF SLATE HEAD
– SLATE HANGS ON THE SHANK OF THE NAIL
– NAIL HEAD DOES NOT PINCH DOWN THE TOP OF SLATE

2 TYPICAL SLATE ROOF TILE ATTACHMENT - SECTION

N.T.S.

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DATE: 07/22/22

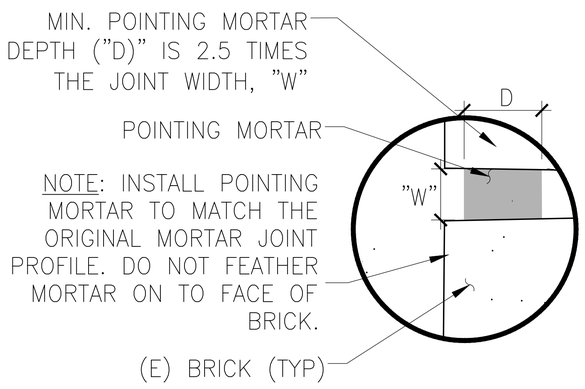
SUB SHEET NO.
EN-200

TITLE OF SHEET
SLATE ROOFING DETAILS

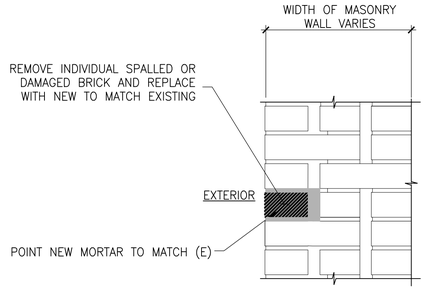
COMMANDANT'S HOUSE MASONRY AND ROOFING REPAIRS
BOSTON NATIONAL HISTORIC PARK

DRAWING NO.
457
179754

SHEET
8 OF 11

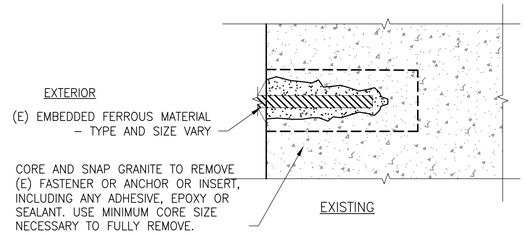


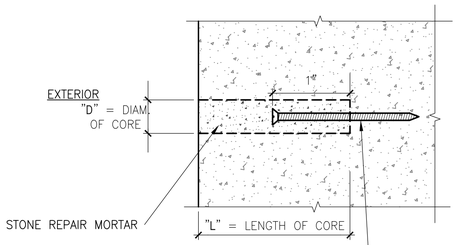
1 REPOINTING - SECTION
N.T.S.



REPAIR NOTES:
1. REMOVE EXISTING OUTER WYTHE OF MASONRY IN AREA OF SPALLED BRICK WITHOUT DAMAGING BRICK TO REMAIN.
2. REMOVE MORTAR FROM SECOND WYTHE OF BRICK AND POINT.
3. USING BRICK TO MATCH EXISTING BRICK, REBUILD OUTER WYTHE OF BRICK TO MATCH PATTERN AND COURSING OF ORIGINAL MASONRY.
4. TOOL JOINTS TO MATCH ORIGINAL MORTAR JOINTS.

2 INDIVIDUAL BRICK REPLACEMENT - SECTION
N.T.S.





PROVIDE MASONRY SCREW WHERE THE RATIO OF LENGTH TO WIDTH (L:D) OF THE REPAIR AREA IS LESS THAN 2.5. WHERE THE RATIO OF L:D IS GREATER THAN OR EQUAL TO 2.5 AND WHERE "D" IS LESS THAN ½ INCH AND WHERE HOLE IS IN A VERTICAL WALL (NOT AN OVERHEAD CONDITION), NO SS MASONRY SCREW IS REQUIRED.

3 EMBEDDED FERROUS REPAIR - SECTION
N.T.S.

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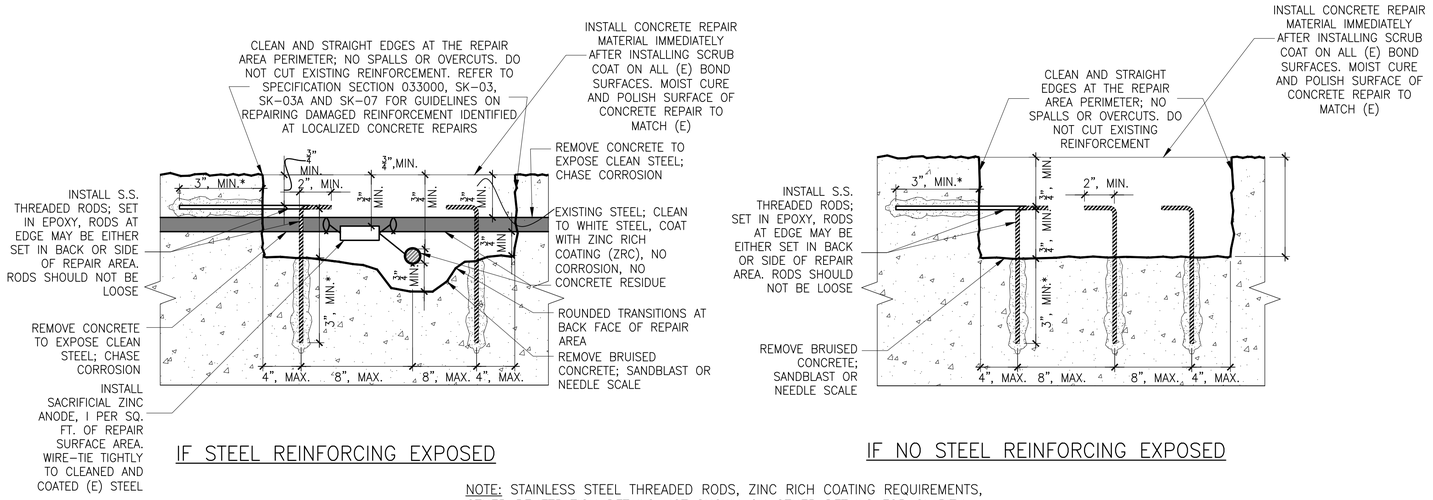
SUB SHEET NO.
EN-201

TITLE OF SHEET
MASONRY REPAIR DETAILS
COMMANDANT'S HOUSE MASONRY AND ROOFING REPAIRS
BOSTON NATIONAL HISTORIC PARK

DRAWING NO.
457
179754

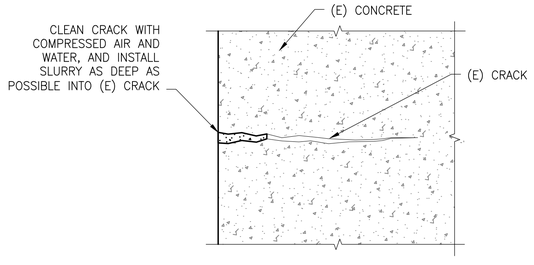
SHEET
9 OF 11



NOTE: STAINLESS STEEL THREADED RODS, ZINC RICH COATING REQUIREMENTS, OTHER PENETRATION DETAILS NOT SHOWN ON OTHER DETAILS FOR CLARITY.

1 TYPICAL CONCRETE REPAIR DETAILS - SECTION

N.T.S.



2 TYPICAL CONCRETE CRACK REPAIR - SECTION

N.T.S.

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TECH. REVIEW: -
DATE: 07/22/22

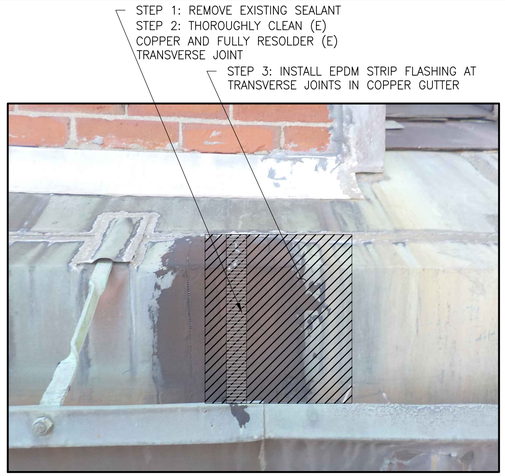
SUB SHEET NO.
EN-202

TITLE OF SHEET
CONCRETE REPAIR DETAILS

COMMANDANT'S HOUSE FACADE REPAIRS
BOSTON NATIONAL HISTORIC PARK

DRAWING NO.
457
179754

SHEET
10 OF 11

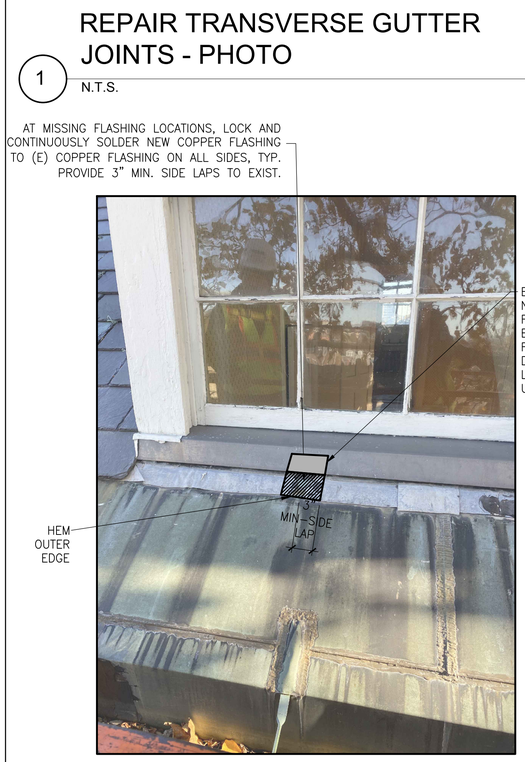


1 REPAIR TRANSVERSE GUTTER JOINTS - PHOTO

N.T.S.

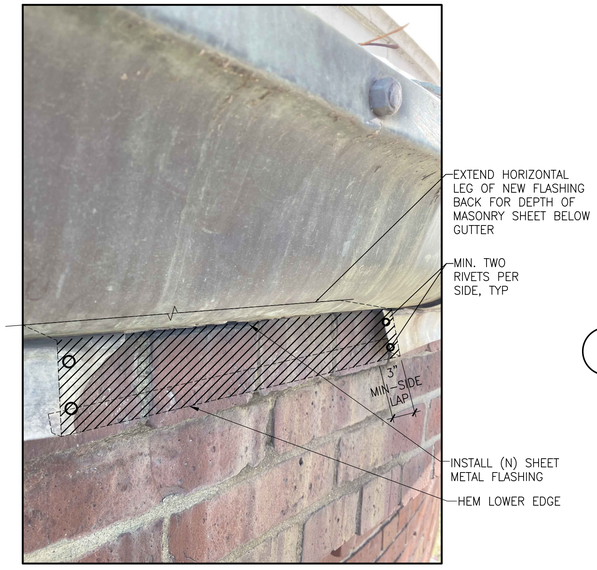
2 REPLACE MISSING DOWNLEADER - PHOTO

N.T.S.



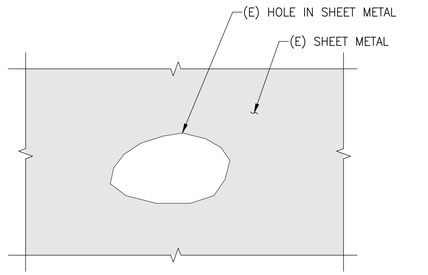
3 REPLACE MISSING FLASHING BELOW WINDOW - PHOTO

N.T.S.



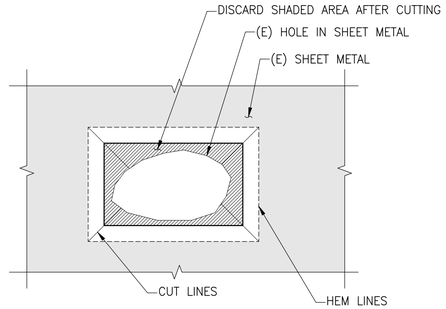
4 REPLACE MISSING FLASHING BELOW GUTTER - PHOTO

N.T.S.



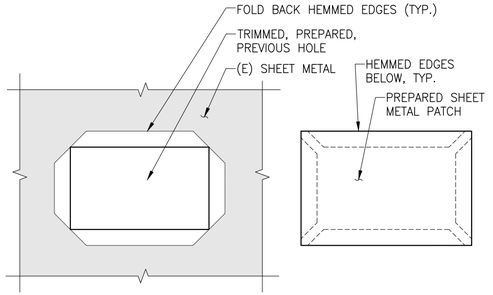
STEP 3A: EXISTING CONDITIONS

NTS



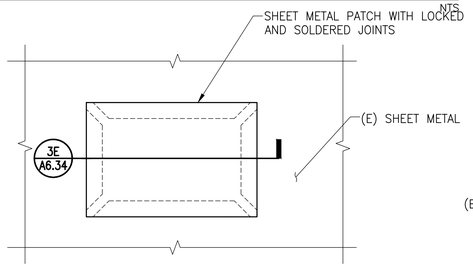
STEP 3B: PREPARE REPAIR AREA

NTS



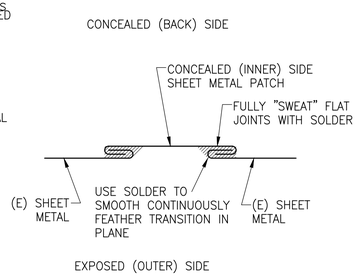
STEP 3C: PREPARED REPAIR AREA

NTS



STEP 3D: REPAIRED AREA

NTS

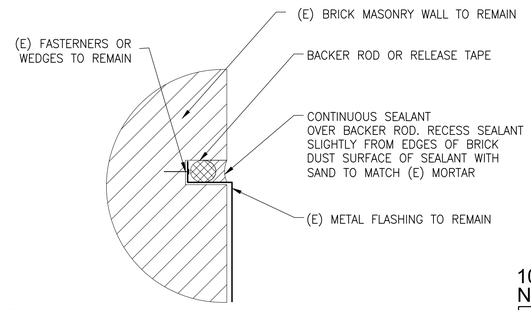


STEP 3E: COMPLETED REPAIR – SECTION

NTS

5 REPAIR OF HOLE IN COPPER GUTTER - PARTIAL ELEVATION

N.T.S.



6 SEALANT REPLACEMENT AT METAL FLASHING - SECTION

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DRAWN: RML
TECH. REVIEW: -
DATE: 07/22/22

SUB SHEET NO. EN-203

TITLE OF SHEET
SHEET METAL FLASHING DETAILS
COMMANDANT'S HOUSE MASONRY AND ROOFING REPAIRS
BOSTON NATIONAL HISTORIC PARK

DRAWING NO. 457 179754

SHEET 11 OF 11