

GENERAL NOTES

1. ALL WORK SHALL CONFORM WITH THE REQUIREMENTS OF THE **2014 NYC BUILDING CODE**, FIRE DEPARTMENT REGULATIONS, UTILITY COMPANY REQUIREMENTS AND THE BEST TRADE PRACTICES.
2. BEFORE COMMENCING WORK THE CONTRACTOR SHALL FILE ALL REQUIRED CERTIFICATES OF INSURANCE WITH THE DEPARTMENT OF BUILDINGS, OBTAIN A WORK PERMIT AND ANY OTHER REQUIRED PERMITS AND PAY ALL FEES REQUIRED BY GOVERNING NYC AGENCIES.

LANDMARK PRESERVATION COMMISSION NOTES

1. **MORTAR MIXES:**
MORTAR WILL BE MIXED IN THE FOLLOWING PROPORTIONS (**Type 'O'**) WHERE RE-POINTING OF THE EXISTING BRICK MASONRY OR SETTING OF NEW BRICK MASONRY UNITS IS PROPOSED:
- 1 PART PORTLAND CEMENT,
- 2 PARTS HYDRATED LIME/NATURAL HYDRAULIC LIME/LIME PUTTY AND
- 9 PARTS AGGREGATE (SAND).
2. **MASONRY RESTORATION:**
BRICK MASONRY t.m.e IN COLOR, DIMENSION, TEXTURE & FINISH.
3. **DOOR MODIFICATION & RESTORATION:**
DOCUMENT & CATALOG (E) CONDITIONS; MECH. REMOVE/STRIP TO BARE METAL, CLEAN, PRIME & PAINT DOOR, FRAME & HARDWARE incl. MISC. REPAIRS ACCORDING TO ORIGINAL PAINT CAMPAIGN; MODIFY DOOR BASE TO ACCOMMODATE (N) LANDING.
4. **WINDOW RESTORATION:**
DOCUMENT & CATALOG (E) CONDITIONS, MECH. REMOVE/STRIP TO BARE METAL, CLEAN, PRIME & PAINT incl. MISC. REPAIRS ACCORDING TO ORIGINAL PAINT CAMPAIGN.
5. **CAST IRON RESTORATION:**
DOCUMENT & CATALOG (E) CONDITIONS PRIOR TO REMOVAL/DISMANTLING; RECREATE DAMAGED ELEMENTS TO HISTORIC CONFIGURATION IN ORIGINAL MATERIAL & INSTALL (**typ.**).

MECH. REMOVE/STRIP (E) HISTORIC CAST-IRON TO BARE METAL; PREPARE, PRIME & PAINT ACCORDING TO ORIGINAL PAINT CAMPAIGN.
6. **STONE RESTORATION:**
- DOCUMENT (E) CONDITIONS.
- REPAIR DELETERIOUS MATERIAL w/ RESTORATION MORTAR, DUTCHMAN OR FULL REPLACEMENT
- COLOR, FINISH & TEXTURE t.m.e.
7. **COLORS:**
CAST-IRON, STANCHION: BLACK t.m.e.
GLASS, LANTERN WINDOW: TRANSLUCENT t.m.e.
GLASS WALL PANEL: TRANSPARENT
GLASS ROOF PANEL: OPAQUE BLACK w/ SATIN/ETCHED FINISH
METAL, OBSERVATION DECK: BLACKENED STAINLESS STEEL
METAL, DOOR: BLACK at EXTERIOR/ GRAY at INTERIOR t.m.e.
METAL, WINDOW: BLACK t.m.e.

NB: THE CONTRACTOR WILL PROVIDE SAMPLES FOR REVIEW ON-SITE OR SAMPLES-IN-PLACE FOR APPROVAL. LPC SHALL BE CONTACTED FOR APPROVAL, PRIOR TO USE.

SPECIAL INSPECTIONS:

WALL PANELS, CURTAIN WALLS, AND VENEERS - BC 1704.10
STRUCTURAL STABILITY - EXISTING BUILDINGS - BC 1704.20.1
POST-INSTALLED ANCHORS - BC 1704.32
MASONRY - BC 1704.5

PROGRESS INSPECTIONS:

ENERGY CODE COMPLIANCE INSPECTIONS
FINAL INSPECTION - BC 109.5, DIRECTIVE 14 of 1975

STATEMENT OF ENERGY COMPLIANCE

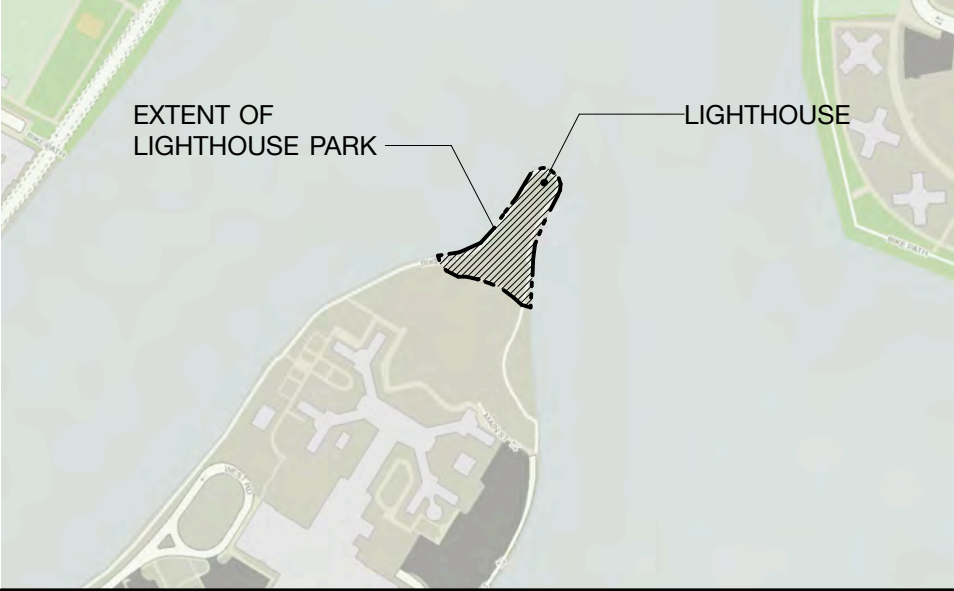
TO THE BEST OF MY KNOWLEDGE, BELIEF AND PROFESSIONAL JUDGMENT, THESE PLANS AND SPECIFICATIONS ARE IN COMPLIANCE WITH THE **2020 NEW YORK CITY ENERGY CONSERVATION CODE**.

NYCECC EXEMPT PROJECT: C501.6 HISTORIC BUILDINGS

PROVISIONS OF THIS CODE RELATING TO THE CONSTRUCTION, REPAIR, ALTERATION, RESTORATION & MOVEMENT OF STRUCTURES, AND CHANGE OF OCCUPANCY SHALL NOT BE MANDATORY FOR HISTORIC BUILDINGS.

BUILDING DATA		
ZONING:	R7-2	
MAP:	9A	
BIN#:	N/A	
BLOCK: 1373	LPC BUILDING:	YES
LOT: 1	LPC DISTRICT:	NO
CB#: 8	STATE REGISTER:	YES
	NATIONAL REGISTER:	YES

LOCATION MAP



ABBREVIATIONS	CONTINUED
&: AND	MAX: MAXIMUM
@: AT	MBR: MODIFIED BITUMEN ROOFING
Δ: DELTA	MECH: MECHANICAL
Ø: DIAMETER	MISC: MISCELLANEOUS
#: NUMBER OR POUND	MIN: MINIMUM
ADJ.: ADJACENT	MJ: MOVEMENT JOINT
AFF: ABOVE FINISHED FLOOR	MO: MASONRY OPENING
AFR: ABOVE FINISHED ROOF	MOD: MODIFIED
ALT: ALTERNATE	MTL: METAL
ALUM: ALUMINUM	(N): NEW
APPX.: APPROXIMATE[LY]	N-C: NON-CORROSIVE
ARCH.: ARCHITECT	NB: NOTA BENE (NOTE WELL)
B/N: BETWEEN	NIC: NOT IN CONTRACT
B/O: BOTTOM OF	NOM: NOMINAL
b.p.: BACK PITCHED	o.c.: ON CENTER
BH: BULKHEAD	O/C: OUTSIDE CORNER
c.i.: CONTINUOUS INSULATION	ORIG: ORIGINAL
CI: CAST IRON	OUNCE
CIP: CAST IN PLACE	P-C: POWDER COATED
CL: CLOSET	PCC: PRE-CAST CONCRETE
CS: CAST STONE	PL: PROPERTY LINE
CJ: CONTROL JOINT	PERIM.: PERIMETER
CL: CENTERLINE	PLYDL: PLYWOOD
CLR: CLEAR	PRE-FAB: PRE-FABRICATED
CMU: CONCRETE MASONRY UNIT	PNT: PAINT
COL: COLUMN	PTD: PAINTED
CONC: CONCRETE	RCP: REFLECTED CEILING PLAN
CONT: CONTINUOUS	RECON: RECONSTRUCTION
DEMO: DEMOLISH OR DEMOLITION	REINF: REINFORCED
DIA: DIAMETER	REQ'D: REQUIRED
DIM.: DIMENSION	RM: ROOM
DN: DOWN	RO: ROUGH OPENING
DR: DOOR	SM: SHEET METAL
DRG: DRAWING	SIM: SIMILAR
(E): EXISTING	SPEC: SPECIFIED OR SPECIFICATION
ETR: EXISTING TO REMAIN	SQ: SQUARE
EA: EACH	SST: STAINLESS STEEL
EJ: EXPANSION JOINT	ST: STAIRS OR STREET
EQ.: EQUIVALENT	STD: STANDARD
EXT: EXTERIOR	STL: STEEL
F-A: FLUID-APPLIED	STR: STRUCTURE/STRUCTURAL
FE: FIRE ESCAPE	SUB: SUBSTITUTE
FPSC: FIREPROOF SELF-CLOSING	tbd: TO BE DETERMINED
FRS: FINISHED ROOF SURFACE	T-C: TERRA-COTTA
GA: GAUGE	tbc: TO BE CONFIRMED
GALV: GALVANIZED	t.m.a.: TO MATCH ADJACENT
GC: GENERAL CONTRACTOR	t.m.e.: TO MATCH EXISTING
HC: HOLLOW CORE	thk: THICK
HORIZ: HORIZONTAL	T/O: TOP OF
HR: HOUR	TOS: TOP OF STEEL
HT: HEIGHT	TEMP: TEMPORARY OR TEMPORARILY
HVAC: HEATING, VENTILATION AND AIR CONDITIONING	typ.: TYPICAL
I/C: INSIDE CORNER	U/S: UNDERSIDE
INFO: INFORMATION	UNO: UNLESS NOTED OTHERWISE
INT: INTERIOR	VERT: VERTICAL
JT: JOINT	VIF: VERIFY IN FIELD
LED: LIGHT-EMITTING DIODE	w/: WITH
LOC.: LOCATION	WD: WOOD
LCC: LEAD COATED COPPER	WJ: WASH JOINT
	WWM: WELDED WIRE MESH

MISCELLANEOUS NOTES

1. REMOVE (E) FERROUS ANCHORS THROUGHOUT.
2. **METAL WORK:** MECH. REMOVE/STRIP TO BARE METAL, CLEAN & PAINT (**typ.**) INCLUDING MINOR REPAIRS AS REQUIRED; **SEAL ALL SUPPORTS.**
3. REMOVE UNCONNECTED CABLES (**typ.**).
4. **PROVIDE SCAFFOLD ACCESS FOR ARCHITECT'S INSPECTION THROUGHOUT.**

LIST OF DRAWINGS

ARCHITECTURAL:	A-500 DETAILS
T-100 COVER SHEET	A-501 STAIR DETAILS
G-001 F.I.R.M. MAP EFFECTIVE 2007	A-600 DOOR & WINDOW SCHEDULE
G-002 F.I.R.M. MAP EFFECTIVE 2013	ELECTRICAL:
A-001 PLANS AS EXISTING	E-100 ELECTRICAL POWER & LIGHTING PLANS
A-002 PLANS AS PROPOSED	E-101 LIGHTING SCHEDULE & DIAGRAMS
A-100 SITEWORK PLAN	E-102 ELECTRICAL NOTES
A-200 ELEVATIONS	STRUCTURAL (TOWER & OBSERVATION DECK):
A-300 SECTIONS	S-100 ELEVATION & SECTION
A-400 LANTERN HOUSE, EXISTING	S-200 STRUCTURAL DETAILS
A-401 LANTERN HOUSE, EXISTING	S-201 STRUCTURAL DETAILS
A-410 LANTERN HOUSE, NEW	S-202 STRUCTURAL NOTES

FLOOD ZONE COMPLIANCE:

STRUCTURE IS LOCATED WITHIN A SPECIAL FLOOD ZONE HAZARD AREA (SFHA) AS SHOWN ON 2013 (CURRENT) FEMA FLOOD INSURANE RATE MAP (FIRM) #3604970089F.

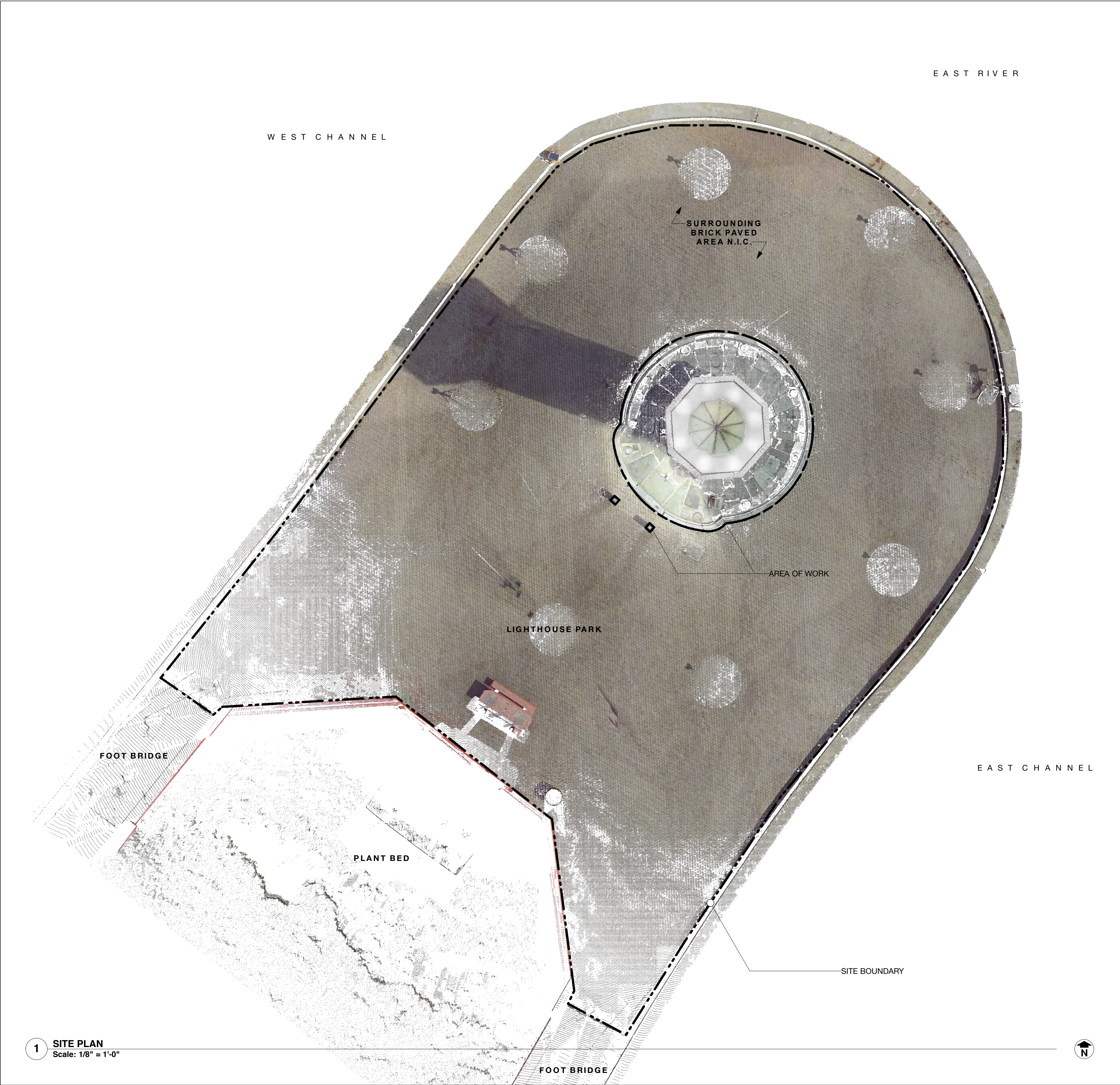
BASE FLOOD ELEVATION +11'-0" NAVD / DESIGN FLOOD ELEVATION +11'-0" NAVD.

THE WORK IS IN COMPLIANCE WITH PROVISIONS OF BC APPENDIX G.

BC G201.2: SUBSTANTIAL IMPROVEMENT [...] DOES NOT; HOWEVER, INCLUDE [...] 2. ANY ALTERATION OF A HISTORIC STRUCTURE PROVIDED THAT THE ALTERATION WILL NOT PRECLUDE THE STRUCTURE'S CONTINUED DESIGNATION AS A HISTORIC STRUCTURE.

WORK AREAS

	D FENESTRATION
A TOWER, EXTERIOR	
A-1 STONE MASONRY RESTORATION	D-1 WINDOW RESTORATION, x2 LOCATIONS
B TOWER, INTERIOR	D-2 METAL DOOR MOD. & RESTORATION
B-1 (N) BRICK MASONRY REPOINTING 100%	E SITEWORK
B-2 REMOVAL OF (E) WOOD STAIR & INSTALL (N) GALVANIZED METAL SPIRAL STAIR	E-1a REMOVE & RESET (E) FLAGSTONES IN RADIAL PATTERN
B-3 (N) REINFORCED CONCRETE PAD & LANDING AT GROUND FLOOR	E-1b (N) FLAGSTONES & CURBING t.m.e.
C LANTERN HOUSE	E-2 REMOVE & RESET (E) PERIMETER CURBING STONES ON (N) GRADE BEAM
C-1 REMOVE (E) CONCRETE DECK & (E) CAST IRON LANTERN	E-3 REMOVE & REINSTALL (E) SIGN & PLAQUE
C-2 (N) BLACKENED STAINLESS STEEL OBSERVATION DECK, SUPPORTS & RAILING	F LIGHTING
C-3 (N) BLACKENED STAINLESS STEEL LANTERN STRUCTURAL FRAMING	F-1 EXTERIOR RECESSED/INGROUND
C-4 (N) GLASS LANTERN & DOOR	F-2 EXTERIOR SURFACE MOUNTED FIXTURES at OBSERVATION DECK
	F-3 INTERIOR SURFACE MOUNTED FIXTURES
	G LIGHTNING PROTECTION
	G-1 INSTALLATION OF (N) GROUNDED LIGHTNING PROTECTION SYSTEM



GRAPHIC LEGEND

	(N) WORK AS INDICATED
	(N) WORK AS INDICATED
	(N) WORK AS INDICATED
	(N) WORK AS INDICATED
	(N) MASONRY RECONSTRUCTION
	(N) MASONRY REPOINTING
	DEMOLITION/SELECTIVE REMOVAL
	MASONRY SPALL REPAIR NB: SP DENOTES SPALL

CONTINUED

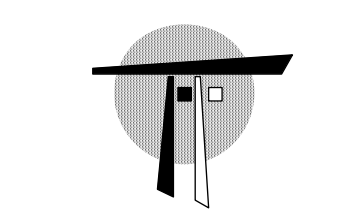
	AREA OF WORK / PROPERTY LINE
	SITE BOUNDARY
	CUT & REPOINT ABUTMENT JOINT
	(N) SEALANT
	REMOVE ITEM AS INDICATED NB: FILL/PATCH HOLE w/ LIKE MATERIAL
	SPALL REPAIR NB: ARROW INDICATES UNDERSIDE LOC.
	MASONRY CRACK REPAIR NB: HC DENOTES HAIRLINE CRACK
	CUT & POINT/ OPEN JOINT(S)

ALTERNATES

THE CONSTRUCTION AND COMPLETION OF ALL LABOR, MATERIALS, EQUIPMENT, SERVICES AND RELATED ITEMS INCIDENTAL AND NECESSARY TO COMPLETE SATISFACTORILY THE ALTERNATE WORK ON THE BIDDING DOCUMENTS AND SPECIFICATIONS 012300 - ALTERNATE WORK.	
ITEM	DESCRIPTION
ADD/ALT#1	INCORPORATE (N) PHOTOVOLTAIC ARRAY WITHIN STRUCTURAL GLASS PANELS BY ONYX SOLAR nb: coordinate fabrication & installation w/ Work Area C-4 New Lantern
ADD/ALT#2	REMOVE & REINSTALL (E) STONE BOLLARDS ON AXIS W/ ENTRYWAY
ADD/ALT#3	REMOVE CAULKING AT DOOR/WINDOW OPENINGS AT LANTERN AS ACM
ADD/ALT#4	PROVIDE & INSTALL (N) LAMINATED SIGN
ADDA/ALT#5	(N) CARVED ENTABLATURE ABOVE LIGHTHOUSE ENTRANCE
ADD/ALT#6	INSTALL (N) LARGE LUMENDOME RGBW LED FIXTURE w/ ARCYLIC HOUSING BY LUMENPULSE at (E) STANCHION at LANTERN

ALLOWANCES

100 SF	STONE MASONRY REPOINTING
10 SF	BRICK MASONRY REPOINTING
10 Loc	STONE PATCHING (≤ 1")
10 Loc	STONE PATCHING (> 1" ≤ 2")



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STUTZKI ENGINEERING
241 N BROADWAY #302
MILWAUKEE, WI 53202
TEL: (414) 455 4815



REVISION:

△	50% CD set: 12/20/19
△	90% CD set: 02/24/20
△	90% CD set: 04/20/20
△	100% CD set: 07/06/20
△	BID ISSUE: 07/22/20
△	DOB ISSUE: 08/10/20
△	DOB ISSUE: 01/20/21

RENWICK LIGHTHOUSE, Lighthouse Park,
Roosevelt Island, NY 10044
RESTORATION, MODIFCATIONS
& SITE IMPROVEMENTS

TITLE:

COVER SHEET

DATE: 7/13/18	PROJECT #: 44701
SCALE: AS NOTED	DRAWN BY: SH
SHEET NUMBER: T-001.00	
PAGE NUMBER: NYC DOB NUMBER: M00449536	1 of 12

NOTES TO USERS

This map is for use in administering the National Flood Insurance Program. It does not necessarily identify all areas subject to flooding, particularly from local drainage sources of small size. The **community map repository** should be consulted for possible updated or additional flood hazard information.

To obtain more detailed information in areas where **Base Flood Elevations** (BFEs) and/or **floodways** have been determined, users are encouraged to consult the Flood Profiles and Floodway Data and/or Summary of Stillwater Elevations tables contained within the Flood Insurance Study (FIS) report that accompanies this FIRM. Users should be aware that BFEs shown on the FIRM represent rounded whole-foot elevations. These BFEs are intended for flood insurance rating purposes only and should not be used as the sole source of flood elevation information. Accordingly, flood elevation data presented in the FIS report should be utilized in conjunction with the FIRM for purposes of construction and/or floodplain management.

Coastal Base Flood Elevations (BFEs) shown on this map apply only landward of 0.0 National Geodetic Vertical Datum of 1929 (NGVD 29). Users of this FIRM should be aware that coastal flood elevations are also provided in the Summary of Stillwater Elevations tables in the Flood Insurance Study report for this jurisdiction. Elevations shown in the Summary of Stillwater Elevations tables should be used for construction and/or floodplain management purposes when they are higher than the elevations shown on this FIRM.

Boundaries of the **floodways** were computed at cross sections and interpolated between cross sections. The floodways were based on hydraulic considerations with regard to requirements of the National Flood Insurance Program. Floodway widths and other pertinent floodway data are provided in the Flood Insurance Study report for this jurisdiction.

Certain areas not in Special Flood Hazard Areas may be protected by **flood control structures**. Refer to Section 2.4 "Flood Protection Measures" of the Flood Insurance Study report for information on flood control structures for this jurisdiction.

The **projection** used in the preparation of this map was New York State Plane FIPSZONE 3104. The **horizontal datum** was NAD 83, GRS80 spheroid. Differences in datum, spheroid, projection or State Plane zones used in the production of FIRMs for adjacent jurisdictions may result in slight positional differences in map features across jurisdiction boundaries. These differences do not affect the accuracy of this FIRM.

Flood elevations on this map are referenced to the National Geodetic Vertical Datum of 1929. These flood elevations must be compared to structure and ground elevations referenced to the same **vertical datum**. For information regarding conversion between the National Geodetic Vertical Datum of 1929 and the North American Vertical Datum of 1989, visit the National Geodetic Survey website at <http://www.ngs.noaa.gov> or contact the National Geodetic Survey at the following address:

NGS Information Services
NOAA, NINGS12
National Geodetic Survey
SSMC-3, #6202
1315 East-West Highway
Silver Spring, Maryland 20910-3182
(301) 713-3242

To obtain current elevation, description, and/or location information for **bench marks** shown on this map, please contact the Information Services Branch of the National Geodetic Survey at (301) 713-3242, or visit its website at <http://www.ngs.noaa.gov>.

Base map information shown on this FIRM was provided in digital format by the Department of Information Technology and Telecommunication, City of New York. This information was derived from digital orthophotos produced at a scale of 1:1,200 with 2-foot pixel resolution from photography dated 2004.

Based on updated topographic information, this map reflects more detailed and up-to-date **stream channel configurations** and **floodplain delineations** than those shown on the previous FIRM for this jurisdiction. As a result, the Flood Profiles and Floodway Data tables in the Flood Insurance Study Report (which contains authoritative hydraulic data) may reflect stream channel distances that differ from what is shown on this map. Also, the road to floodplain relationships for unreviewed streams may differ from what is shown on previous maps.

Corporate limits shown on this map are based on the best data available at the time of publication. Because changes due to annexations or de-annexations may have occurred after this map was published, map users should contact appropriate community officials to verify current corporate limit locations.

Please refer to the separately printed **Map Index** for an overview map showing the layout of map panels for this jurisdiction.

Contact the **FEMA Map Service Center** at 1-800-358-9616 for information on available products associated with this FIRM. Available products may include previously issued Letters of Map Change, a Flood Insurance Study report, and/or digital versions of this map. The FEMA Map Service Center may also be reached by Fax at 1-800-358-9620 and its website at <http://msc.fema.gov>.

If you have **questions about this map** or questions concerning the National Flood Insurance Program in general, please call 1-877-FEMA MAP (1-877-336-2627) or visit the FEMA website at <http://www.fema.gov>.



LEGEND

SPECIAL FLOOD HAZARD AREAS SUBJECT TO INUNDATION BY THE 1% ANNUAL CHANCE FLOOD

The 1% annual flood (100-year flood), also known as the base flood, is the flood that has a 1% chance of being equaled or exceeded in any given year. The Special Flood Hazard Area is the area subject to flooding by the 1% annual chance flood. Areas of Special Flood Hazard include Zones A, AE, AH, AO, AR, A99, V, and VE. The Base Flood Elevation is the water-surface elevation of the 1% annual chance flood.

- ZONE A** No Base Flood Elevations determined.
- ZONE AE** Base Flood Elevations determined.
- ZONE AH** Flood depths of 1 to 3 feet (usually areas of ponding); Base Flood Elevations determined.
- ZONE AO** Flood depths of 1 to 3 feet (usually sheet flow on sloping terrain); average depths determined. For areas of unusual fan flooding, velocities also determined.
- ZONE AR** Special Flood Hazard Area formerly protected from the 1% annual chance flood by a flood control system that was subsequently identified. Zone AR indicates that the former flood control system is being restored to provide protection from the 1% annual chance or greater flood.
- ZONE A99** Area to be protected from 1% annual chance flood by a Federal flood protection system under construction; no Base Flood Elevations determined.
- ZONE V** Coastal flood zone with velocity hazard (wave action); no Base Flood Elevations determined.
- ZONE VE** Coastal flood zone with velocity hazard (wave action); Base Flood Elevations determined.

FLOODWAY AREAS IN ZONE AE

The floodway is the channel of a stream plus any adjacent floodplain areas that must be kept free of encroachment so that the 1% annual chance flood can be carried without substantial increases in flood heights.

OTHER FLOOD AREAS

Areas of 0.2% annual chance flood; areas of 1% annual chance flood with average depths of less than 1 foot or with drainage areas less than 1 square mile; and areas protected by levees from 1% annual chance flood.

OTHER AREAS

Areas determined to be outside the 0.2% annual chance floodplain.

Areas in which flood hazards are undetermined, but possible.

COASTAL BARRIER RESOURCES SYSTEM (CBRS) AREAS

OTHERWISE PROTECTED AREAS (OPAs)

CBRS areas and OPAs are normally located within or adjacent to Special Flood Hazard Areas.

1% annual chance floodplain boundary

0.2% annual chance floodplain boundary

Floodway boundary

Zone D boundary

CBRS and OPA boundary

Boundary dividing Special Flood Hazard Area Zones and boundary dividing Special Flood Hazard Areas of different Base Flood Elevations, flood depths or flood velocities.

Base Flood Elevation line and value; elevation in feet*

Base Flood Elevation value where uniform within zone; elevation in feet*

* Referenced to the National Geodetic Vertical Datum of 1929

Cross section line

Transect line

Geographic coordinates referenced to the North American Datum of 1983 (NAD 83), Western Hemisphere

1000-meter Universal Transverse Mercator grid values, zone 18

5000-foot grid ticks: New York State Plane coordinate system, Long Island zone (FIPSZONE 3104), Lambert Conformal Conic projection

Bench mark (see explanation in Notes to Users section of this FIRM panel)

River Mile

Refer to listing of Map Repositories on Map Index

INITIAL NFIP MAP DATE

June 28, 1974

FLOOD HAZARD BOUNDARY MAP REVISIONS

June 11, 1976

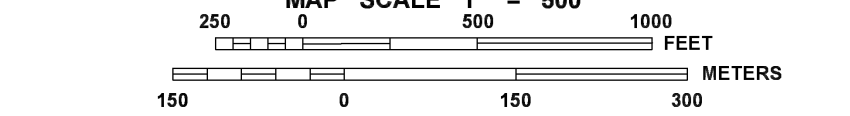
FLOOD INSURANCE RATE MAP EFFECTIVE

November 16, 1983

FLOOD INSURANCE RATE MAP REVISIONS

September 5, 2007 - to change Special Flood Hazard Areas, to reflect updated topographic information, and to update map format

To determine if flood insurance is available in this community, contact your Insurance agent or call the National Flood Insurance Program at 1-800-638-6620.



NFIP

NATIONAL FLOOD INSURANCE PROGRAM

PANEL 0089F

FIRM

FLOOD INSURANCE RATE MAP

CITY OF
NEW YORK,
NEW YORK
BRONX, RICHMOND, NEW YORK,
QUEENS, AND KINGS COUNTIES

PANEL 89 OF 457

(SEE MAP INDEX FOR FIRM PANEL LAYOUT)

CONTAINS:

COMMUNITY NUMBER PANEL SUFFIX
NEW YORK, CITY OF 360497 0089 F

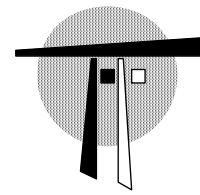
Notice to User: The Map Number shown below should be used when placing map orders; the Community Number shown above should be used on insurance applications for the subject community.



MAP NUMBER
3604970089F

MAP REVISED
SEPTEMBER 5, 2007

Federal Emergency Management Agency



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SEAL:



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△ 50% CD set: 12/20/19

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△ 100% CD set: 07/06/20

△ BID ISSUE: 07/22/20

△ DOB ISSUE: 01/20/21

△

△

10044

RENEWICK LIGHTHOUSE, Lighthouse Park,

RESTORATION, MODIFICATIONS

& SITE IMPROVEMENTS

TITLE:

F.I.R.M. MAP
EFFECTIVE 2007

DATE:

7/13/18

SCALE:

AS NOTED

SHEET NUMBER:

G-001.00

PAGE NUMBER: 2 of 12

NYC DOB NUMBER: M00449536

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To obtain current elevation, description, and/or location information for **bench marks** shown on this map, please contact the Information Services Branch of the National Geodetic Survey at (301) 713-3242, or visit its website at <http://www.ngs.noaa.gov>.

Base map information shown on this FIRM was provided in digital format by the Department of Information Technology and Telecommunication, City of New York (DoITT). This information was derived from digital orthophotos produced at a scale of 1:1,200 with 2-foot pixel resolution from photography dated April 2008.

This map reflects more detailed and up-to-date **stream channel configurations** than those shown on the previous FIRM for this jurisdiction. The floodplains and floodways that were transferred from the previous FIRM may have been adjusted to conform to these new stream channel configurations. As a result, the Flood Profiles and Floodway Data tables in the Flood Insurance Study Report (which contains authoritative hydraulic data) may reflect stream channel distances that differ from what is shown on this map.

Corporate limits shown on this map are based on the best data available at the time of publication. Because changes due to annexations or de-annexations may have occurred after this map was published, map users should contact appropriate community officials to verify current corporate limit locations.

Please refer to the separately printed **Map Index** for an overview map of the county showing the layout map panels, community map repository addresses, and a Listing of Communities table containing National Flood Insurance Program dates for each community as well as a listing of the panels on which each community is located.

The AE Zone category has been divided by a **Limit of Moderate Wave Action** (LIMWA). The LIMWA represents the approximate landward limit of the 1.5-foot breaking wave. The effects of wave hazards between the VE Zone and the LIMWA (or between the shoreline and the LIMWA for areas where VE Zones are not identified) will be similar to, but less severe than those in the VE Zone.

For information on available products associated with this FIRM visit the **Map Service Center (MSC)** website at <http://msc.fema.gov>. Available products may include previously issued Letters of Map Change, a Flood Insurance Study Report, and/or digital versions of this map. Many of these products can be ordered or obtained directly from the MSC website.

If you have **questions about this map**, how to order products or the National Flood Insurance Program in general, please call the FEMA Map Information eXchange (FMIX) at 1-877-FEMA-MAP (1-877-336-2627) or visit the FEMA website at <http://www.fema.gov/business/nfp>.



LEGEND

- SPECIAL FLOOD HAZARD AREAS SUBJECT TO INUNDATION BY THE 1% ANNUAL CHANCE FLOOD**
- The 1% annual flood (100-year flood), also known as the base flood, is the flood that has a 1% chance of being equaled or exceeded in any given year. The Special Flood Hazard Area is the area subject to flooding by the 1% annual chance flood. Areas of Special Flood Hazard include Zones A, AE, AH, AO, AR, A99, V, and VE. The Base Flood Elevation is the water-surface elevation of the 1% annual chance flood.
- ZONE A** No Base Flood Elevations determined.
- ZONE AE** Base Flood Elevations determined.
- ZONE AH** Flood depths of 1 to 3 feet (usually areas of ponding); Base Flood Elevations determined.
- ZONE AO** Flood depths of 1 to 3 feet (usually sheet flow on sloping terrain); average depths determined. For areas of alluvial fan flooding, velocities also determined.
- ZONE AR** Special Flood Hazard Area formerly protected from the 1% annual chance flood by a flood control system that was subsequently decertified. Zone AR indicates that the former flood control system is being restored to provide protection from the 1% annual chance or greater flood.
- ZONE A99** Area to be protected from 1% annual chance flood by a Federal flood protection system under construction; no Base Flood Elevations determined.
- ZONE V** Coastal flood zone with velocity hazard (wave action); no Base Flood Elevations determined.
- ZONE VE** Coastal flood zone with velocity hazard (wave action); Base Flood Elevations determined.
- FLOODWAY AREAS IN ZONE AE**
- The floodway is the channel of a stream plus any adjacent floodplain areas that must be kept free of encroachments so that the 1% annual chance flood can be carried without substantial increases in flood heights.
- OTHER FLOOD AREAS**
- ZONE X** Areas of 0.2% annual chance flood; areas of 1% annual chance flood with average depths of less than 1 foot or with drainage areas less than 1 square mile; and areas protected by levees from 1% annual chance flood.
- OTHER AREAS**
- ZONE X** Areas determined to be outside the 0.2% annual chance floodplain.
- ZONE D** Areas in which flood hazards are undetermined, but possible.
- COASTAL BARRIER RESOURCES SYSTEM (CBRS) AREAS**
- OTHERWISE PROTECTED AREAS (OPAs)**
- CBRS areas and OPAs are normally located within or adjacent to Special Flood Hazard Areas.
- 1% annual chance floodplain boundary
- 0.2% annual chance floodplain boundary
- Floodway boundary
- Zone D boundary
- CBRS and OPA boundary
- Boundary dividing Special Flood Hazard Area Zones and boundary dividing Special Flood Hazard Areas of different Base Flood Elevations, flood depths or flood velocities
- Limit of Moderate Wave Action
- Base Flood Elevation line and value; elevation in feet*
- Base Flood Elevation value where uniform within zone; elevation in feet*
- * Referenced to the North American Vertical Datum of 1988
- Cross section line
- Transect line
- Quiver, Flume, Penstock or Aqueduct
- Road or Railroad Bridge
- Footbridge
- Geographic coordinates referenced to the North American Datum of 1983 (NAD 83), Western Hemisphere
- 1000-meter Universal Transverse Mercator grid values, zone 18
- 5000-foot grid values: New York State Plane coordinate system, Long Island zone (FIPSZONE 3104), Lambert Conformal Conic projection
- Bench mark (See explanation in Notes to Users section of this FIRM panel)
- River Mile
- MAP REPOSITORY
- Refer to listing of Map Repositories on Map Index.
- INITIAL NFP MAP DATE
- June 28, 1974
- FLOOD HAZARD BOUNDARY MAP REVISIONS
- June 11, 1976
- FLOOD INSURANCE RATE MAP EFFECTIVE
- November 16, 1983
- FLOOD INSURANCE RATE MAP REVISIONS
- For descriptions of revisions see Notice to Users page in the Flood Insurance Study report.
- To determine if flood insurance is available in this community, contact your Insurance agent or call the National Flood Insurance Program at 1-800-438-6620.
- MAP SCALE 1" = 500'
- 250 0 500 1000 FEET
- 150 0 150 300 METERS

NATIONAL FLOOD INSURANCE PROGRAM

PANEL 0089G

FIRM

FLOOD INSURANCE RATE MAP

CITY OF,
NEW YORK
NEW YORK
BRONX, RICHMOND, NEW YORK,
QUEENS, AND KINGS COUNTIES

PANEL 89 OF 457
(SEE MAP INDEX FOR FIRM PANEL LAYOUT)

CONTAINS:

COMMUNITY NUMBER PANEL SUFFIX
NEW YORK, CITY OF 360497 0089 G

PRELIMINARY
DECEMBER 5, 2013

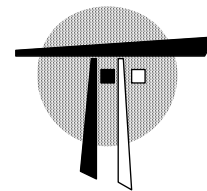
Notice to User: The Map Number shown below should be used when placing map orders; the Community Number shown above should be used on insurance applications for the subject community.



MAP NUMBER
3604970089G

MAP REVISED

Federal Emergency Management Agency



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BID ISSUE: 07/22/20

DOB ISSUE: 01/20/21

RENWICK LIGHTHOUSE, Lighthouse Park,
RESTORATION, MODIFICATIONS
& SITE IMPROVEMENTS

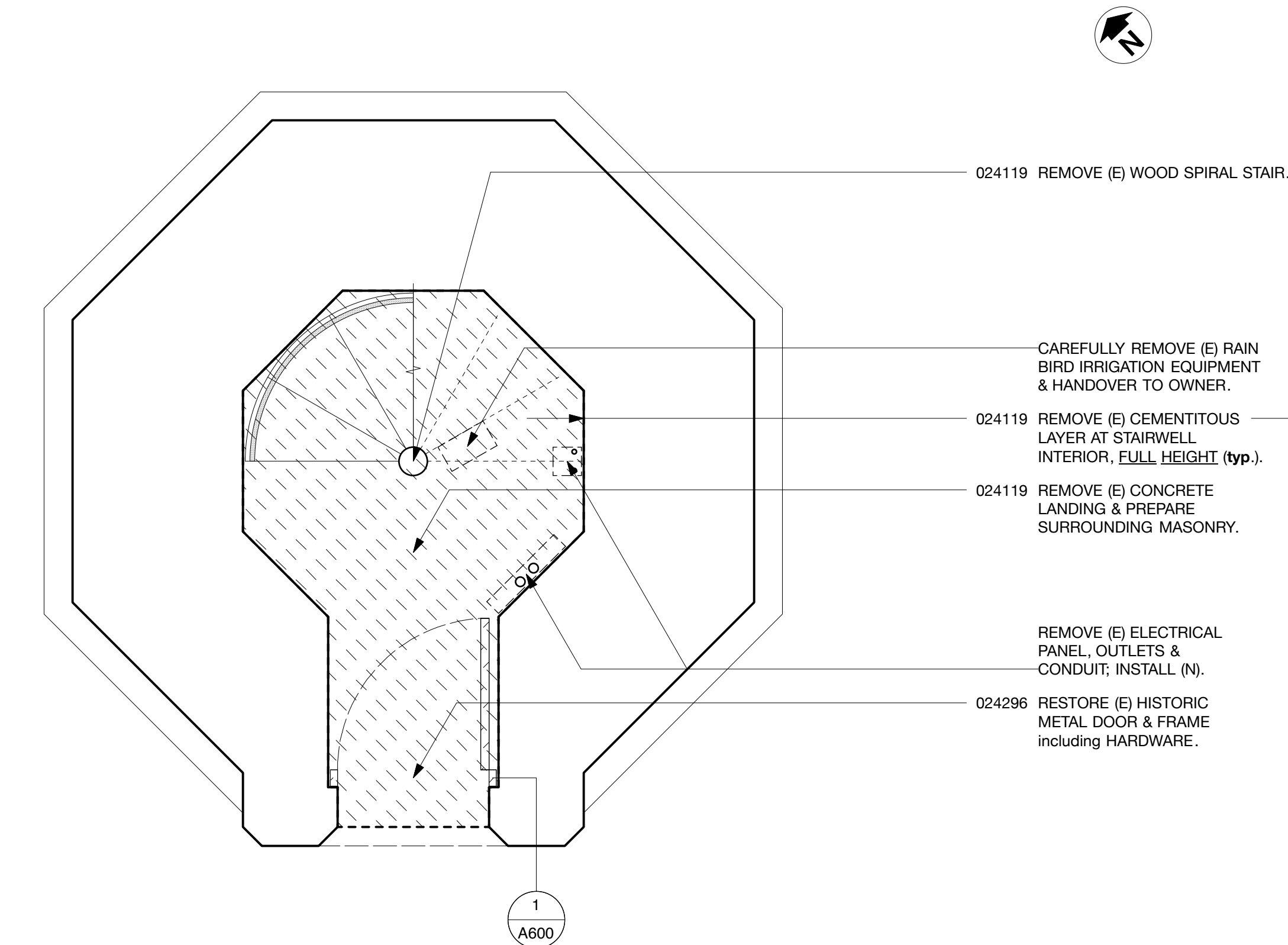
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F.I.R.M. MAP
EFFECTIVE 2013

DATE: 7/13/18 PROJECT #: 44701

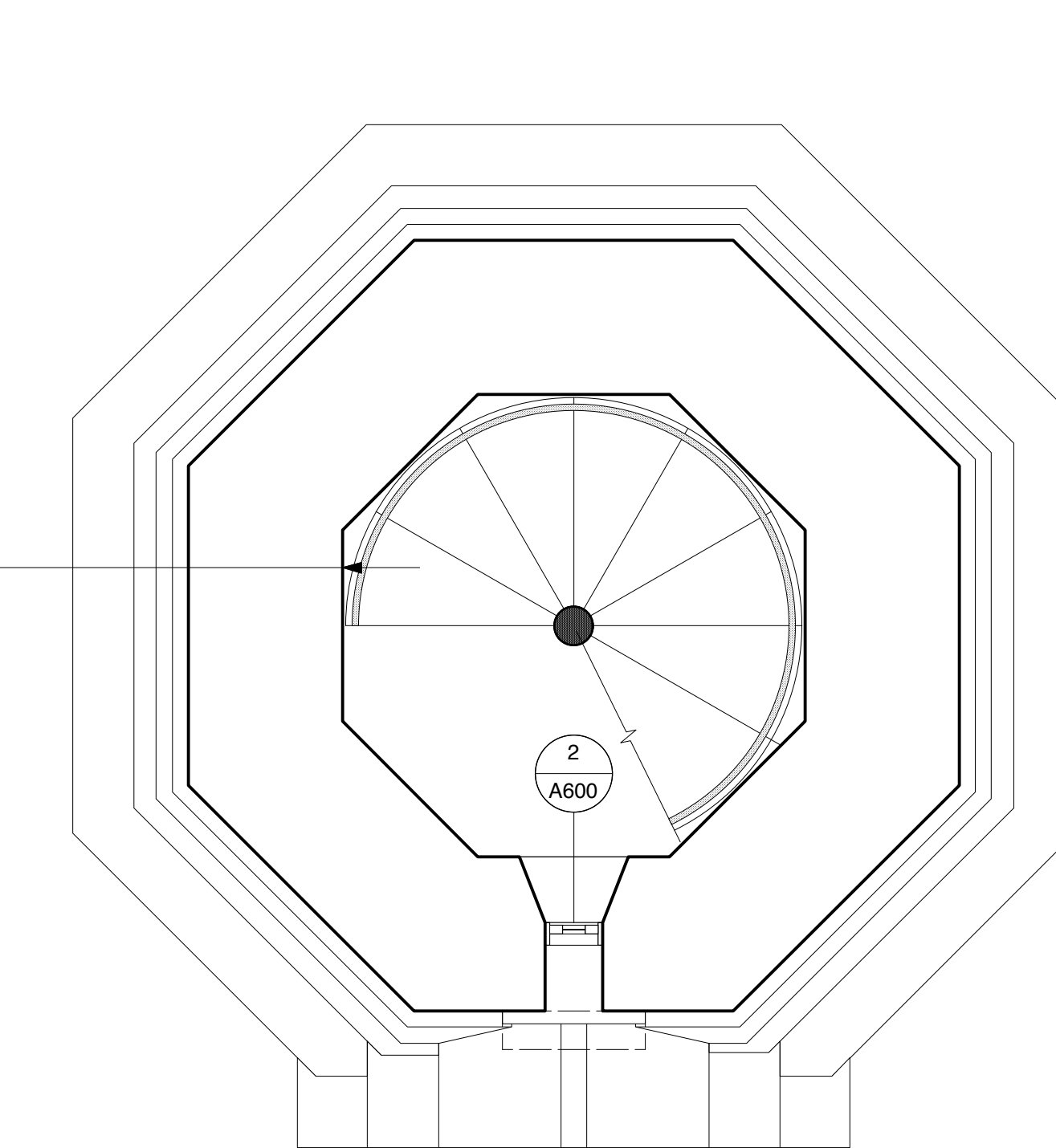
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G-002.00

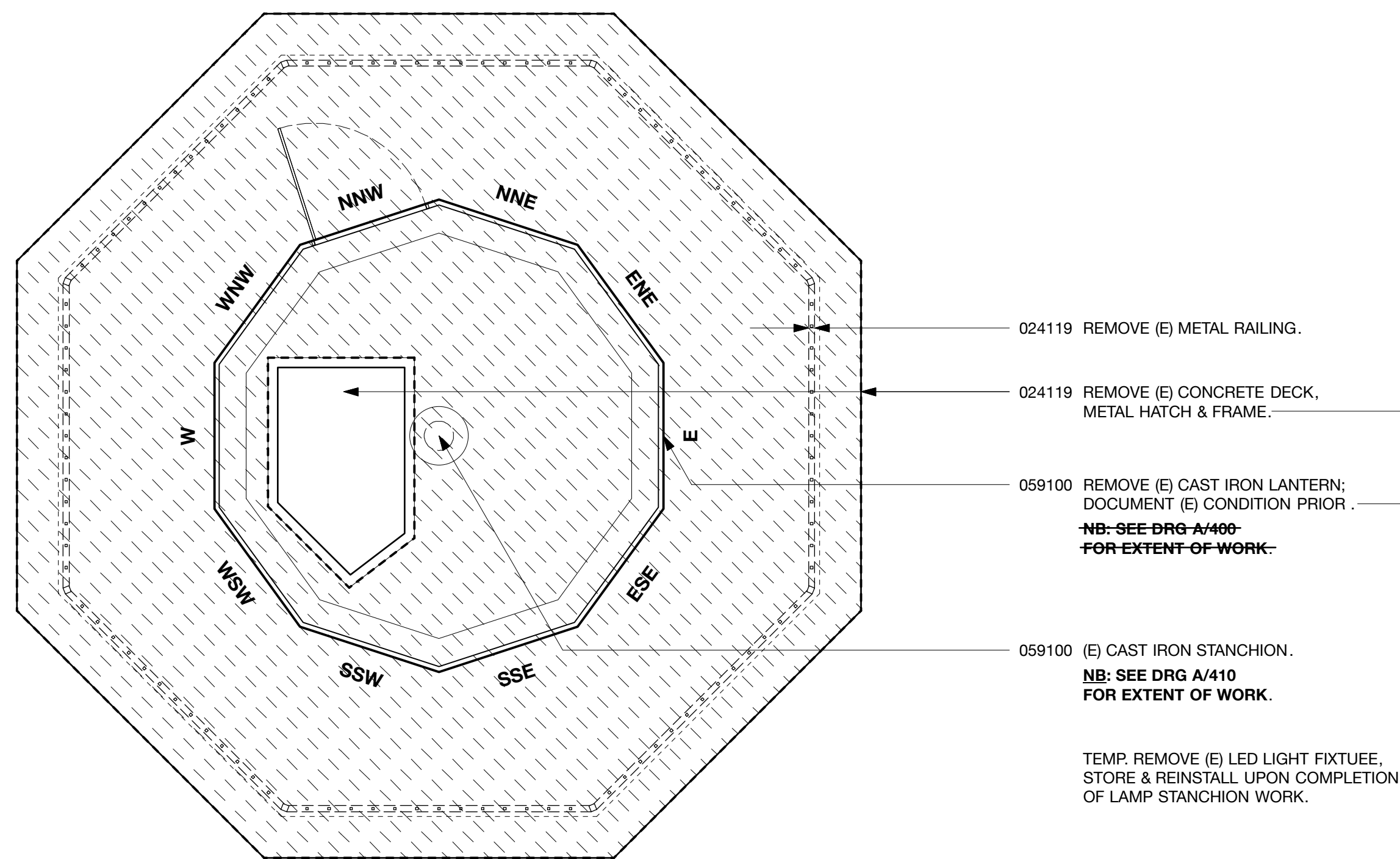
PAGE NUMBER: 3 of 12
NYC DOB NUMBER: M00449536



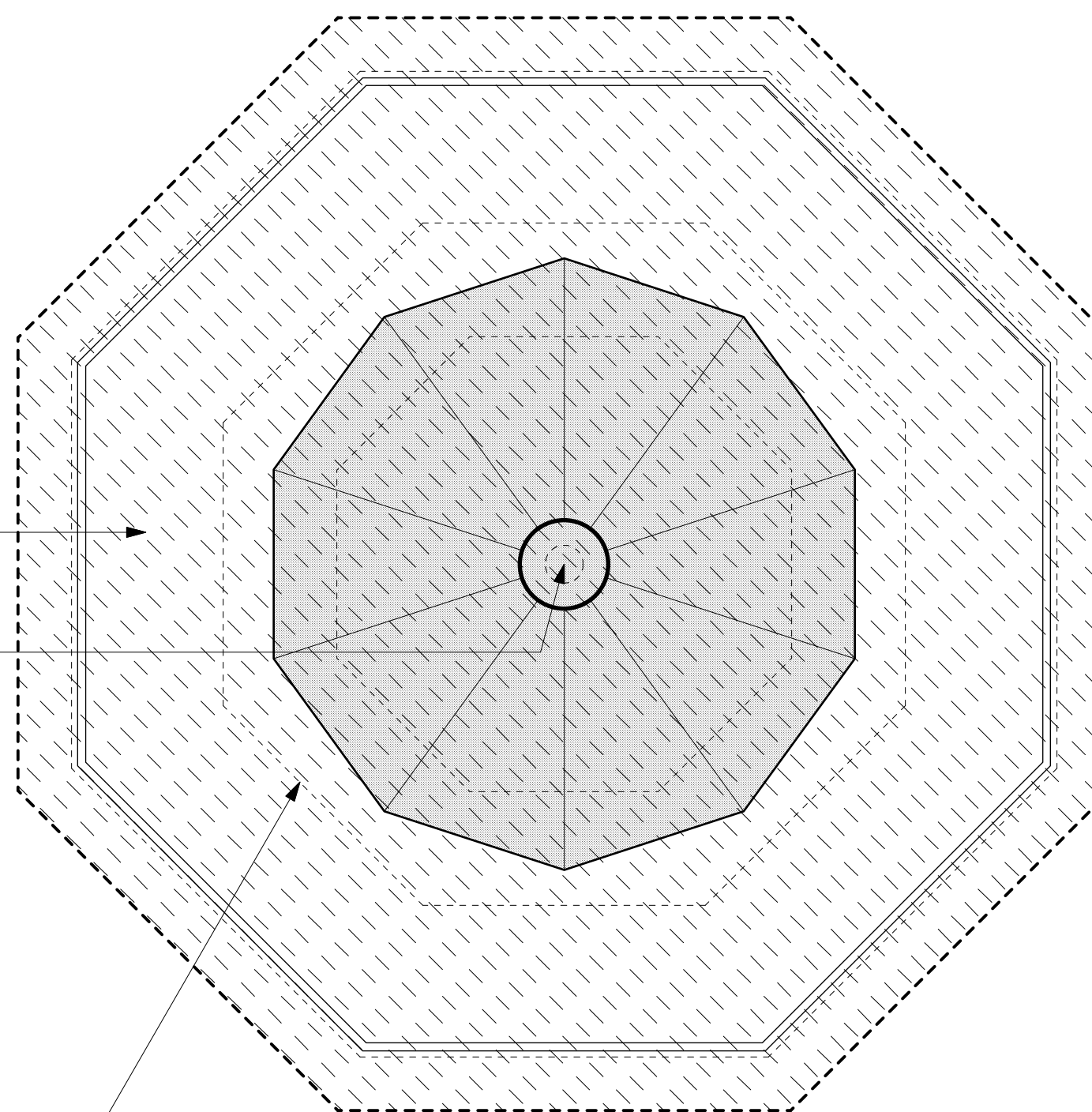
1 GROUND FLOOR PLAN
Scale: 1/2" = 1'-0"



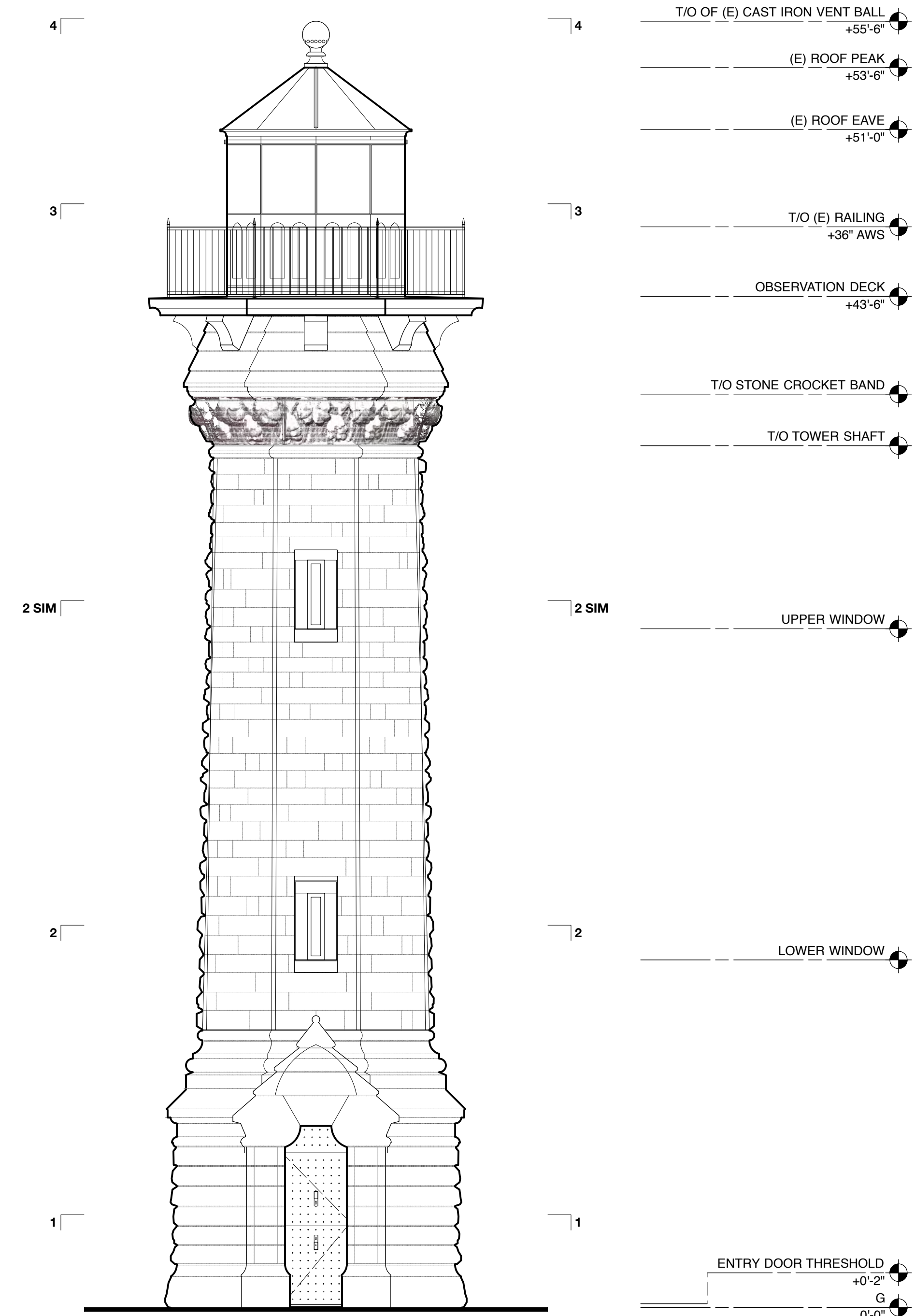
2 STAIRWELL WINDOW PLAN - TYPICAL
Scale: 1/2" = 1'-0"



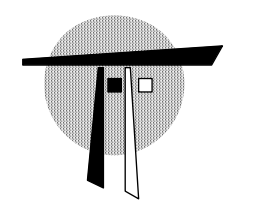
3 LANTERN/OBSERVATION DECK - FLOOR PLAN
Scale: 1/2" = 1'-0"



4 LANTERN/OBSERVATION DECK - ROOF PLAN
Scale: 1/2" = 1'-0"



KEY: ELEVATION AS EXISTING
Scale: 1/4" = 1'-0"



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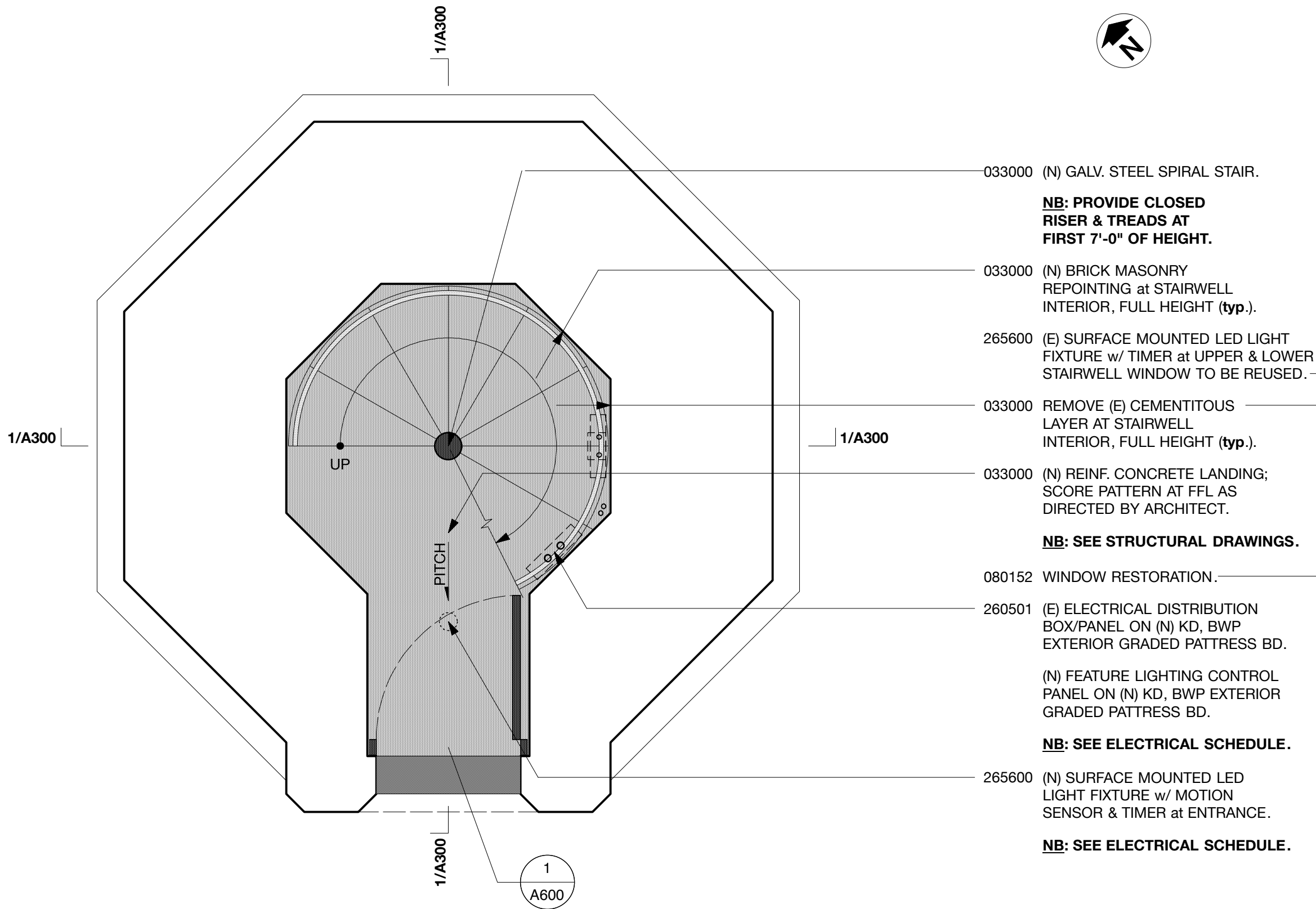


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△	90% CD set: 02/24/20.
△	90 % CD set: 04/20/20.
△	100% CD set: 07/06/20.
△	BID ISSUE: 07/22/20.
△	DOB ISSUE: 01/20/21.
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RENWICK LIGHTHOUSE, Lighthouse Park,
Roosevelt Island, NY 10044

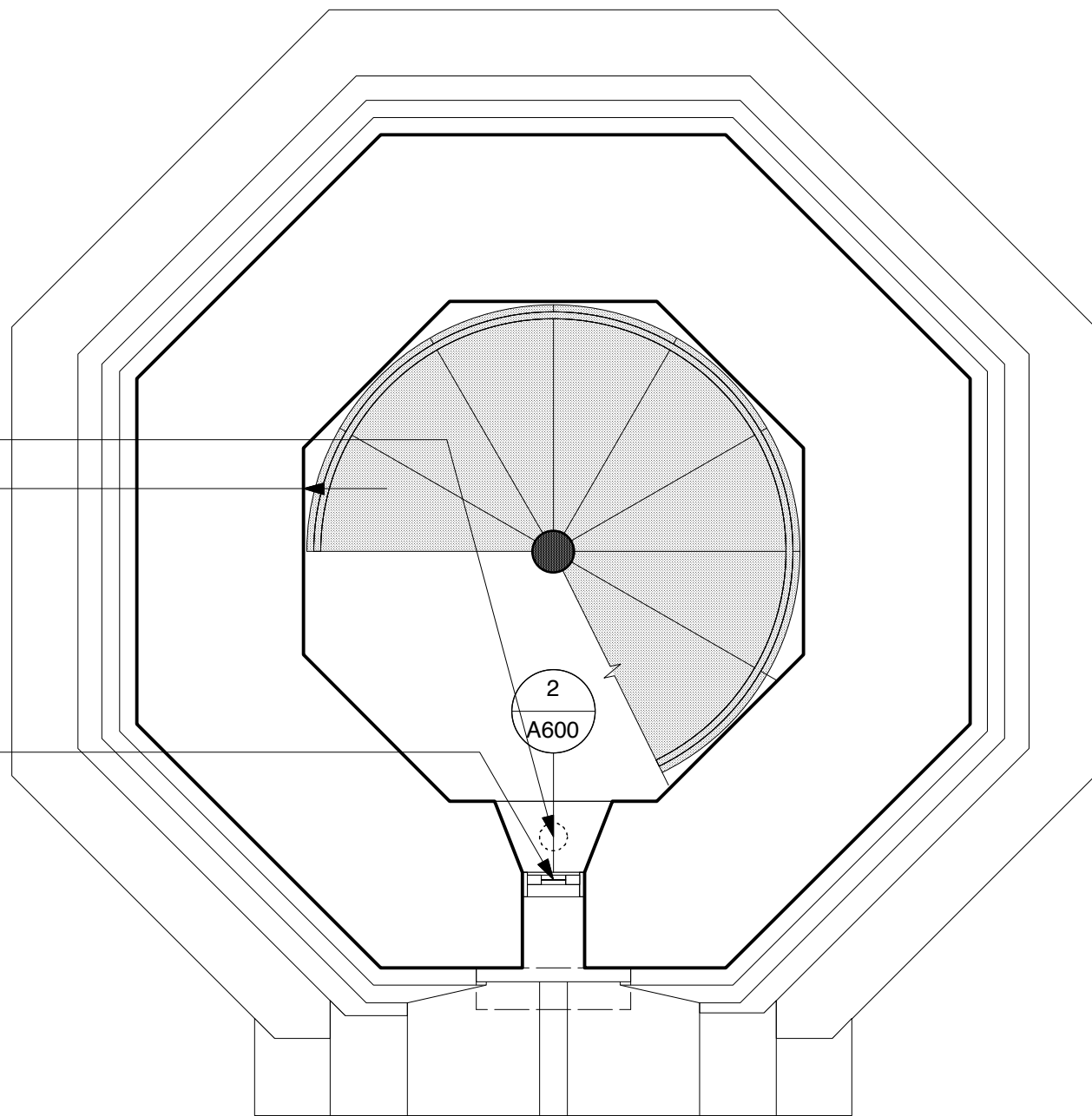
RESTORATION, MODIFICATIONS
& SITE IMPROVEMENTS

TITLE: PLANS AS EXISTING	
DATE: 4/23/18	PROJECT #: 44701
SCALE: AS NOTED	DRAWN BY: SH
SHEET NUMBER: A-001.00	
PAGE NUMBER: M00449536	4 of 12

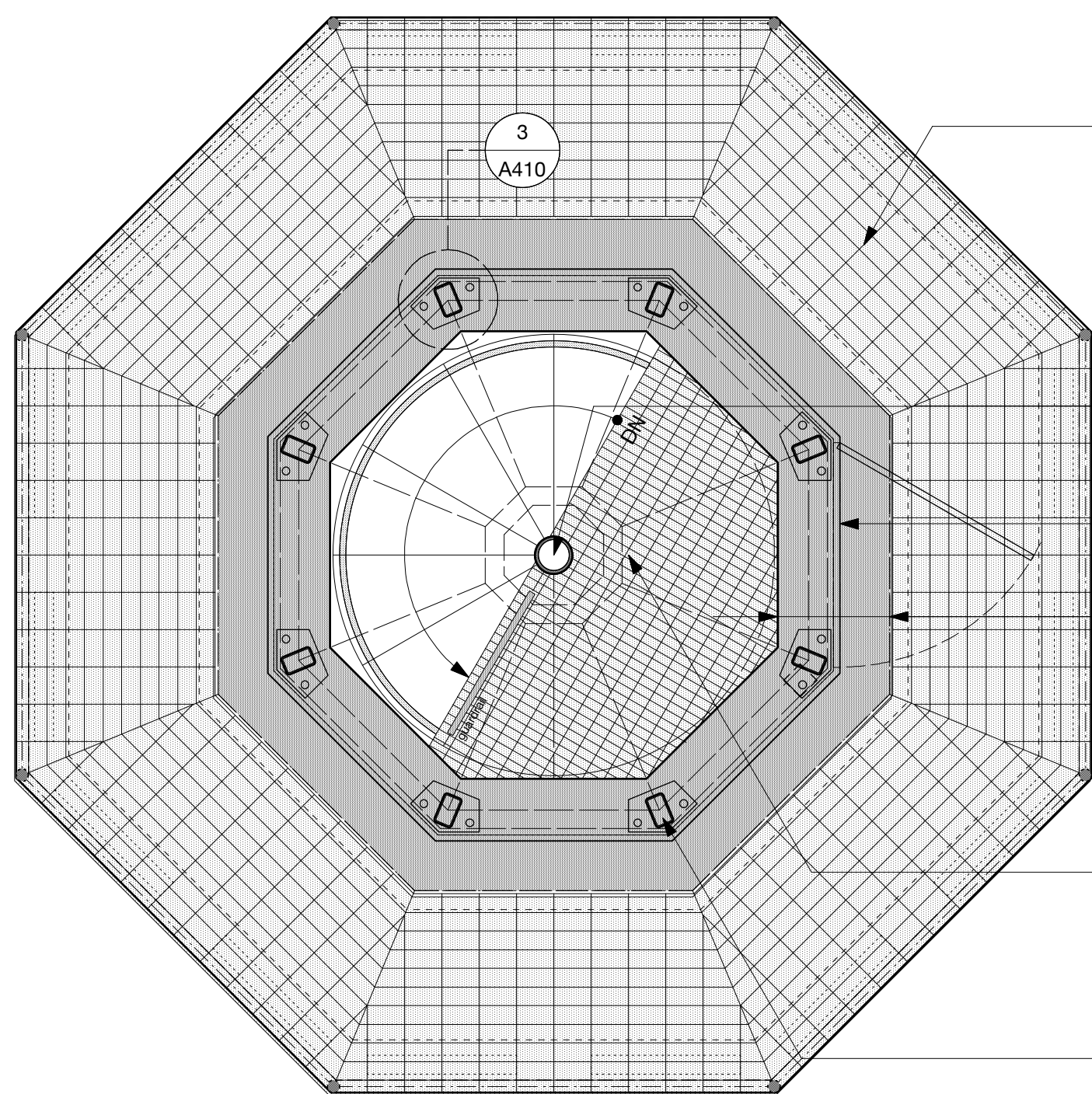


1 GROUND FLOOR PLAN
Scale: 1/2" = 1'-0"

- 033000 (N) GALV. STEEL SPIRAL STAIR.
- NB: PROVIDE CLOSED RISER & TREADS AT FIRST 7'-0" OF HEIGHT.**
- 033000 (N) BRICK MASONRY REPOINTING at STAIRWELL INTERIOR, FULL HEIGHT (**typ.**).
- 265600 (E) SURFACE MOUNTED LED LIGHT FIXTURE w/ TIMER at UPPER & LOWER STAIRWELL WINDOW TO BE REUSED.
- 033000 REMOVE (E) CEMENTITIOUS LAYER AT STAIRWELL INTERIOR, FULL HEIGHT (**typ.**).
- 033000 (N) REINF. CONCRETE LANDING; SCORE PATTERN AT FFL AS DIRECTED BY ARCHITECT.
- NB: SEE STRUCTURAL DRAWINGS.**
- 080152 WINDOW RESTORATION.
- 260501 (E) ELECTRICAL DISTRIBUTION BOX/PANEL ON (N) KD, BWP EXTERIOR GRADED PATTTRESS BD.
- (N) FEATURE LIGHTING CONTROL PANEL ON (N) KD, BWP EXTERIOR GRADED PATTTRESS BD.
- NB: SEE ELECTRICAL SCHEDULE.**
- 265600 (N) SURFACE MOUNTED LED LIGHT FIXTURE w/ MOTION SENSOR & TIMER at ENTRANCE.
- NB: SEE ELECTRICAL SCHEDULE.**

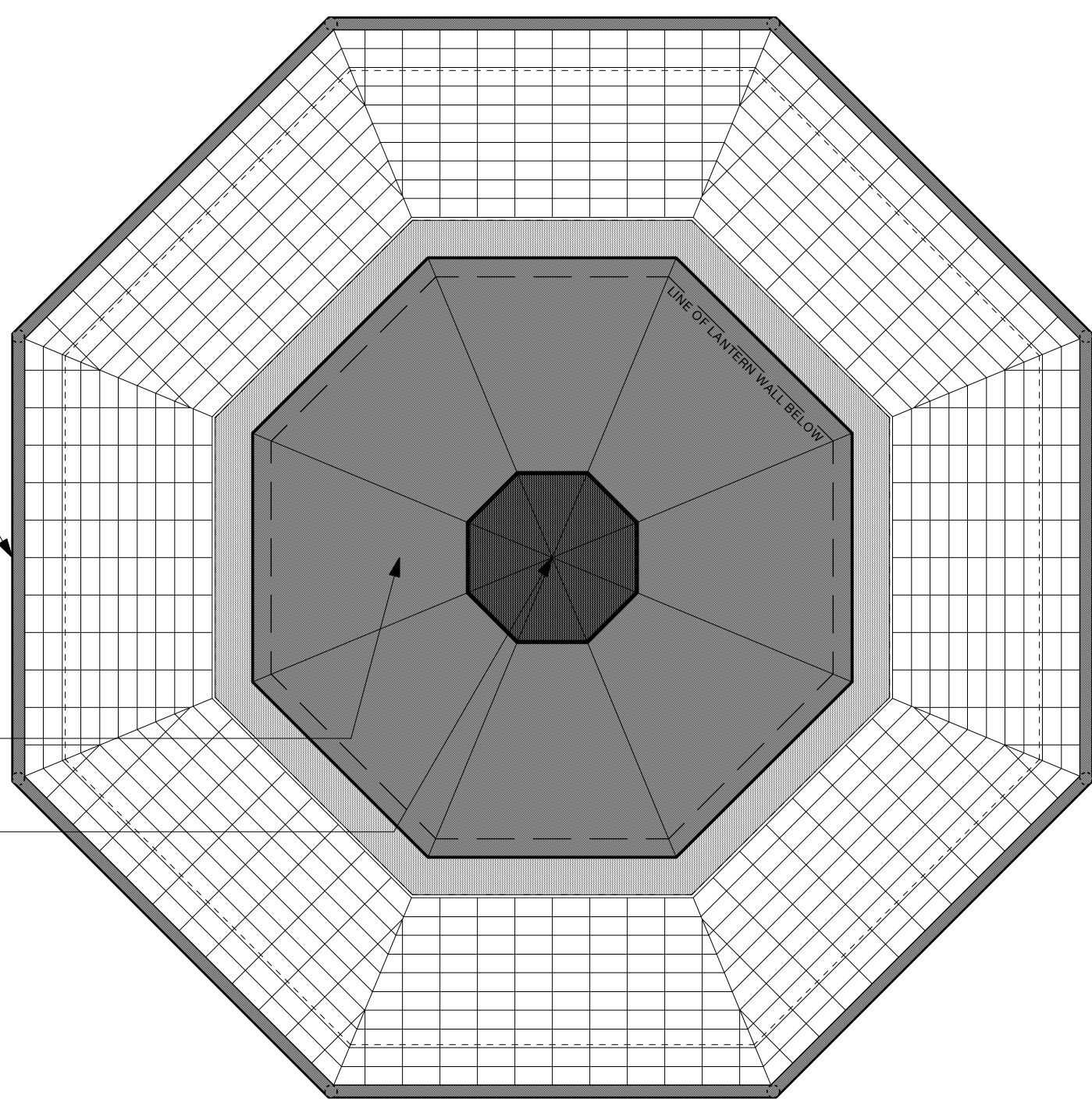


2 STAIRWELL WINDOW PLAN - TYPICAL
Scale: 1/2" = 1'-0"

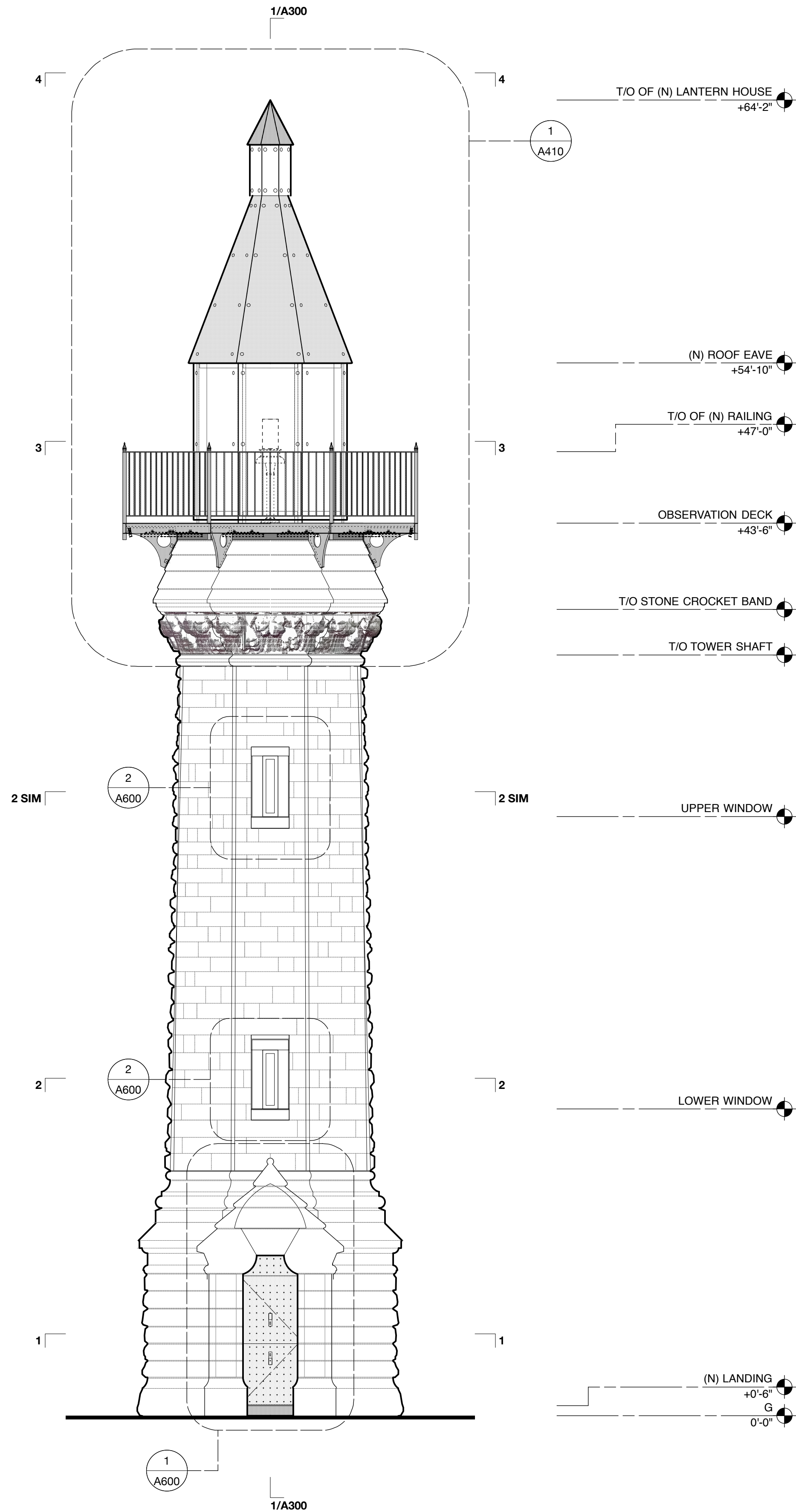


3 LANTERN/OBSERVATION DECK PLAN
Scale: 1/2" = 1'-0"

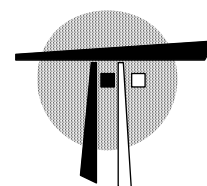
- 055000 (N) BLACKENED SST OPEN GRATE OBSERVATION DECK, FASTENERS, CLIPS & BRACKETS.
- NB: PROVIDE ACCESS at EA. BAY FOR MAINTENANCE PURPOSES incl. ACCESSORIES.**
- 055000 (N) BLACKENED SST RAILING.
- 265600 **ADD/ALT#6:** (N) RGBW LED LUMENDOME w/ ACRYLIC HOUSING BY LUMENPULSE.
- 088000 (N) OPERABLE GLASS DOOR at (N) GLASS LANTERN HOUSE.
- 033000 (N) REINF. CONCRETE RING BEAM; **SEE STRUCTURAL DRGS.**
- 088000 (N) OPAQUE BLACK GLASS w/ SATIN/ETCHED FINISH ROOF PANELS.
- 055000 (N) BLACKENED SST CAP.
- 055000 (N) LANDING w/ RAILING at T/O SPIRAL STAIR TO ALIGN w/ ADJ. CONC. RING BEAM.
- NB: MAXIMIZE FOOTPRINT WHILST MAINTAINING HEADROOM CLEARANCE.**
- 051200 (N) SST STRUCTURAL FRAME, SUPPORTS & ANCHORAGE; **SEE STRUCTURAL DRGS.**
- 260500 INSTALL ONE (1) (N) DUPLEX, GFI SERVICE OUTLET at LANTERN HOUSE INTERIOR TOP LANDING LEVEL; **SEE ELECTRICAL DRGS.**



4 LANTERN/OBSERVATION DECK - ROOF PLAN
Scale: 1/2" = 1'-0"




KEY: ELEVATION AS PROPOSED
Scale: 1/4" = 1'-0"



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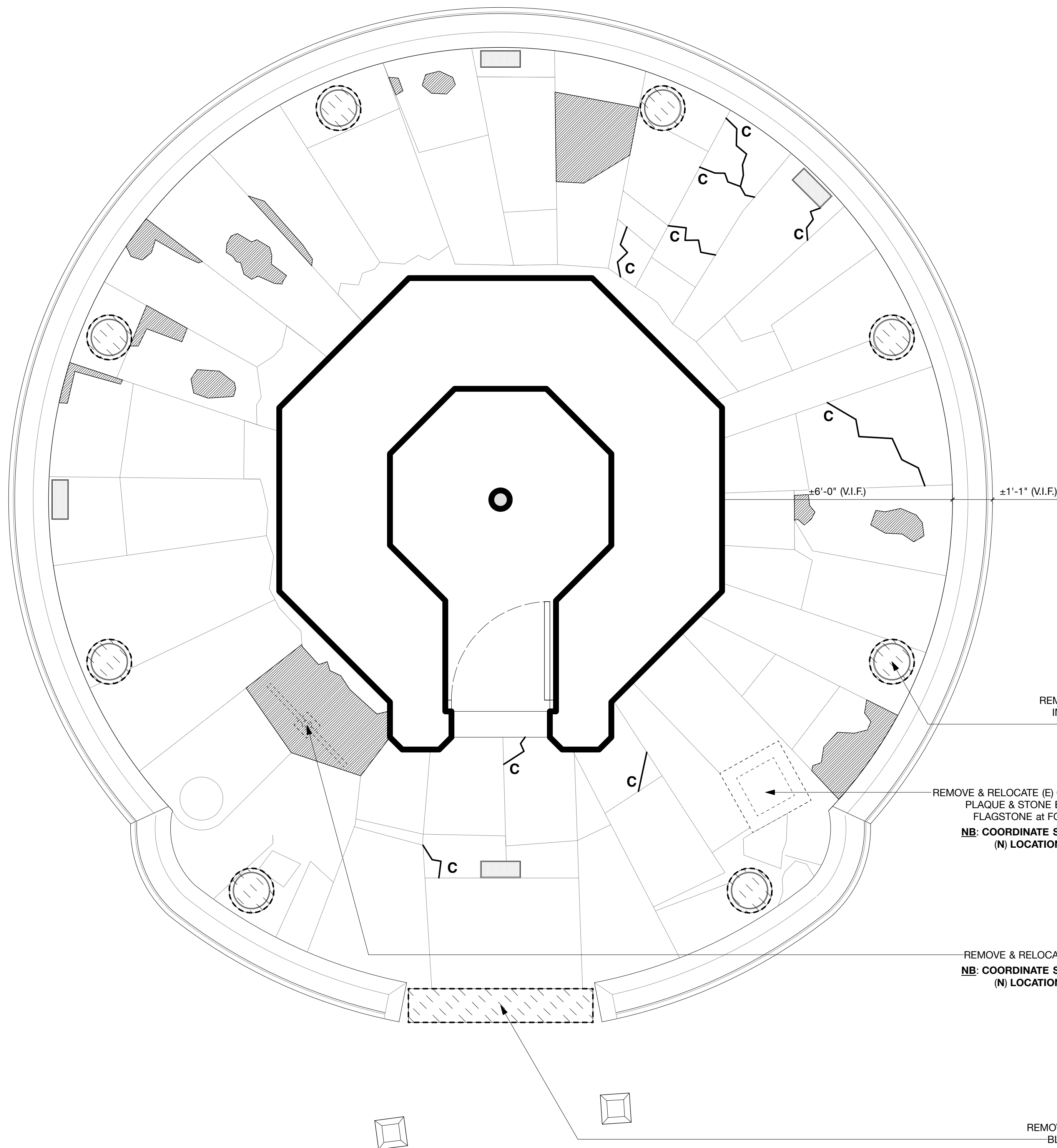
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△	BID ISSUE: 07/22/20.
△	DOB ISSUE: 01/20/21.
△	

RENWICK LIGHTHOUSE, Lighthouse Park,
Roosevelt Island, NY 10044
**RESTORATION, MODIFICATIONS
& SITE IMPROVEMENTS**

TITLE:
PLANS AS PROPOSED

DATE: 4/23/18	PROJECT #: 44701
SCALE: AS NOTED	DRAWN BY: SH

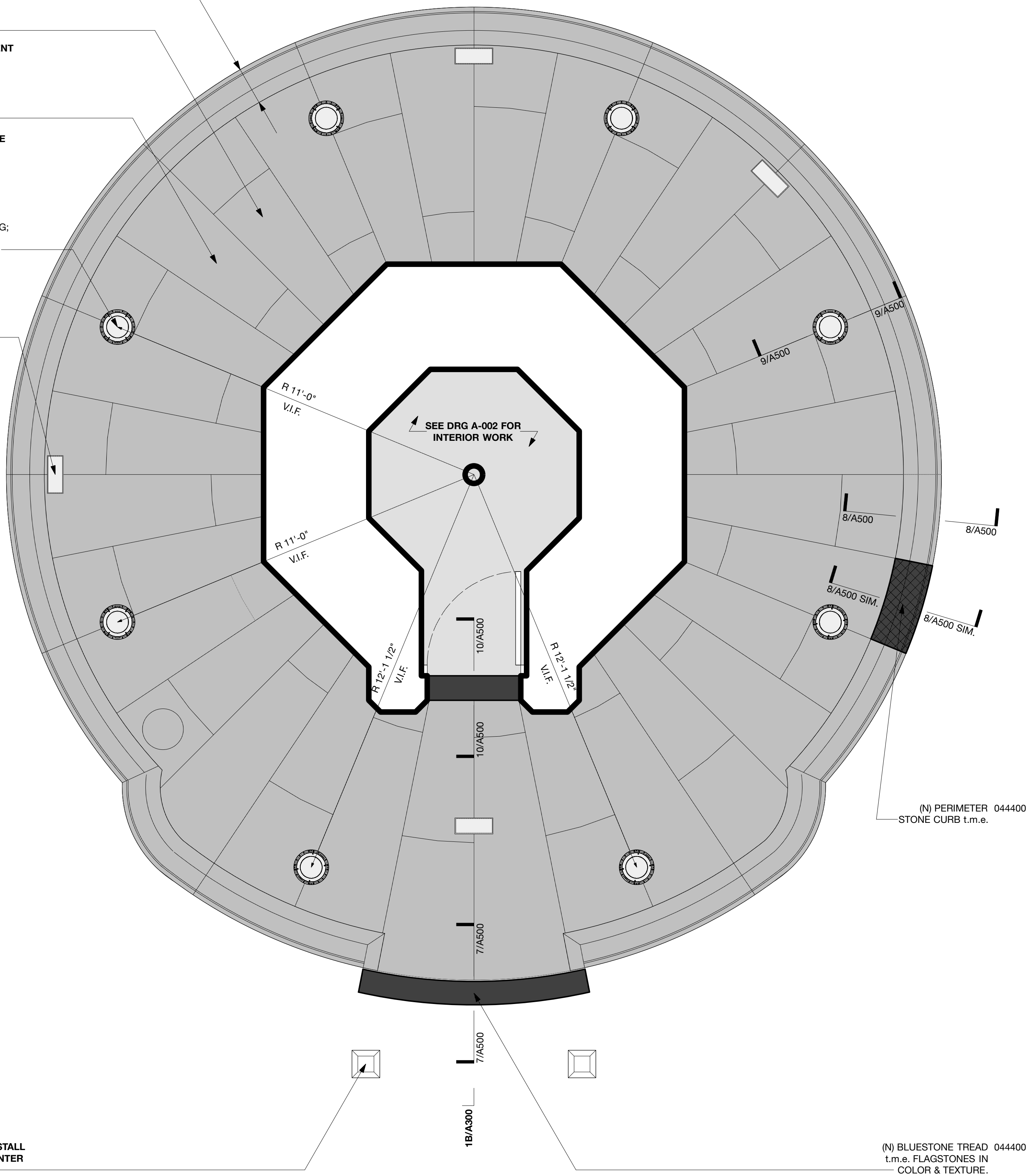
SHEET NUMBER:
A-002.00
PAGE NUMBER: 5 of 12
NYC DOB NUMBER:
M00449536



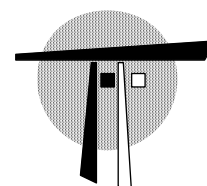
1A SITE WORK PLAN - AS EXISTING

1 SITE WORK PLAN
Scale: 1/2" = 1'-0"

- 024296 REMOVE & RESET (E) PERIMETER STONE CURB ON (N) CONC. GRADE BEAM.
- 044400 (N) FLAGSTONE t.m.e. (typ.).
NB: ALLOW FOR REPLACEMENT OF 25% OF EXISTING.
- 024296 REMOVE (E) FLAGSTONES, PREP & REINSTALL IN HISTORIC RADIAL PATTERN.
NB: COORDINATE FLAGSTONE WORK w/ DRAINS & INGROUND LIGHTING.
- 265600 (N) INGROUND RGBW LIGHTING; COORDINATE INSTALL w/ SURROUNDING STONework.
- 099113 REPAINT (E) METAL FLOOR DRAINS (typ.).
NB: REMOVE & REINSTALL AS REQ'D w/ SURROUNDING STONework.
- REMOVE (E) DEFUNCT 024119 INGROUND ROUND LIGHTS (typ.).
- REMOVE & RELOCATE (E) COMMEMORATIVE PLAQUE & STONE BASE; PROVIDE (N) FLAGSTONE at FORMER LOCATION.
NB: COORDINATE STORAGE AND/OR (N) LOCATION w/ OWNERSHIP.
- REMOVE & RELOCATE (E) NRHP SIGN. 101426
NB: COORDINATE STORAGE AND/OR (N) LOCATION w/ OWNERSHIP.
- REMOVE NON-ORIGINAL 024119 BLUESTONE TREAD.
- 044400 ADD/ALT#2: REMOVE & REINSTALL (E) STONE BOLLARDS ON CENTER w/ ENTRYWAY APPROACH.




1B SITE WORK PLAN - AS PROPOSED



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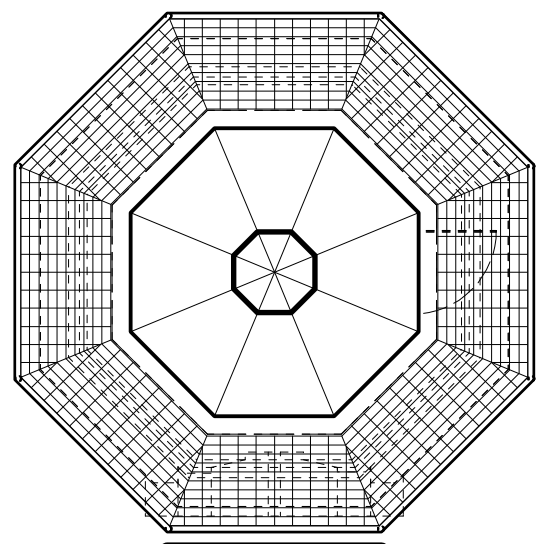
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△ 90% CD set: 04/20/20.
△ 100% CD set: 07/06/20.
△ BID ISSUE: 07/22/20.
△ DOB ISSUE: 01/20/21.
△

RENWICK LIGHTHOUSE, Lighthouse Park,
Roosevelt Island, NY 10044
**RESTORATION, MODIFICATIONS
& SITE IMPROVEMENTS**

TITLE:
**SITEWORK
PLAN**

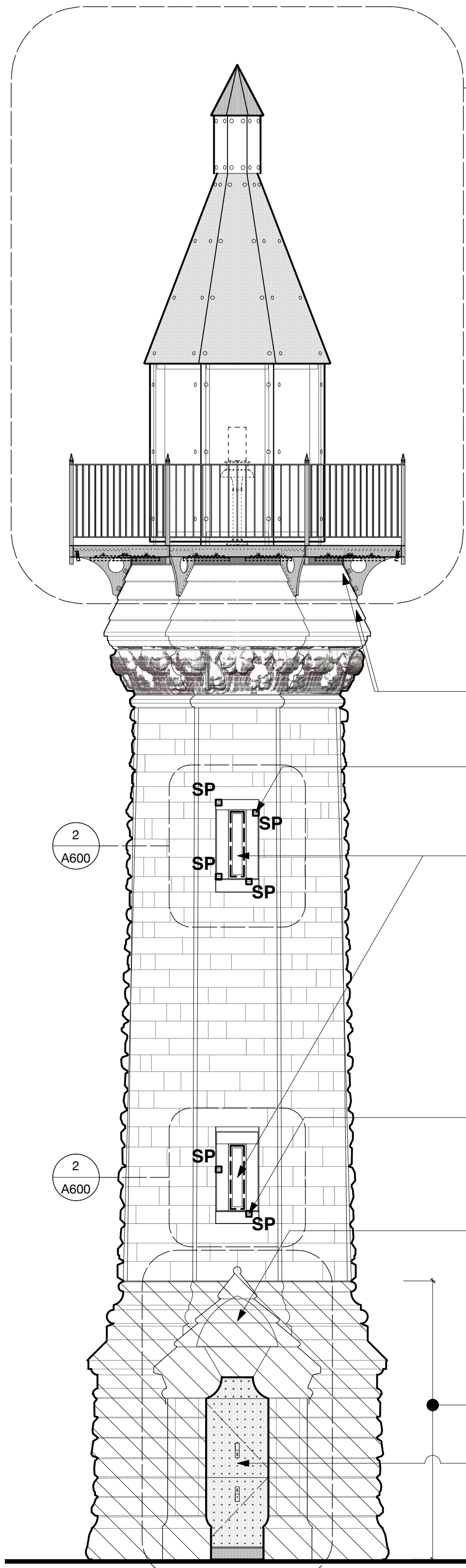
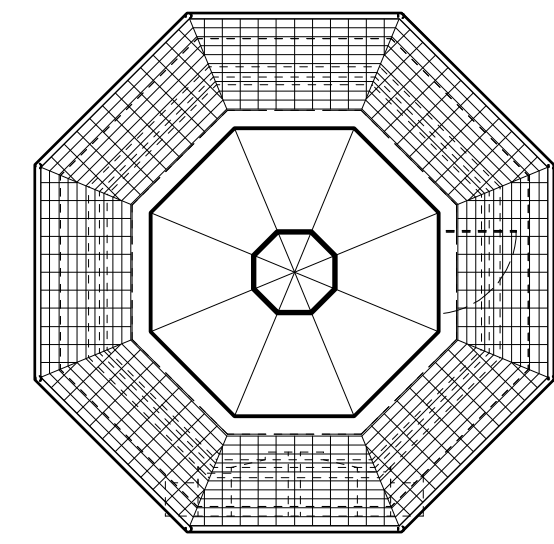
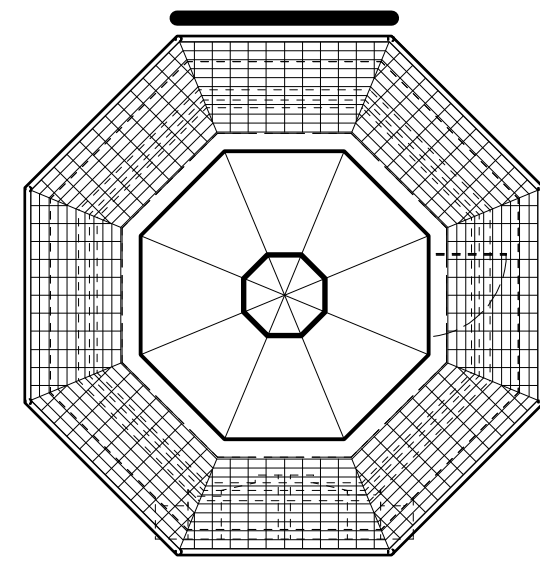
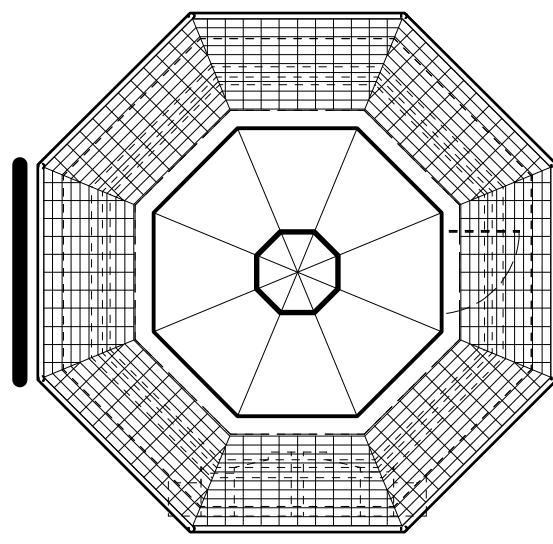
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SCALE: AS NOTED	DRAWN BY: SH

SHEET NUMBER:
A-100.00
PAGE NUMBER: 6 of 12
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M00449536



KEY

1/A300



040140 REMOVE ANCHORAGE REMNANTS & PATCH at ea. OUTSIDE CORNER, BOTH SIDES (typ.).

040140 STONE SPALL REPAIR (typ.).

080152 WINDOW RESTORATION (typ.).

040140 STONE RESTORATION (typ.).

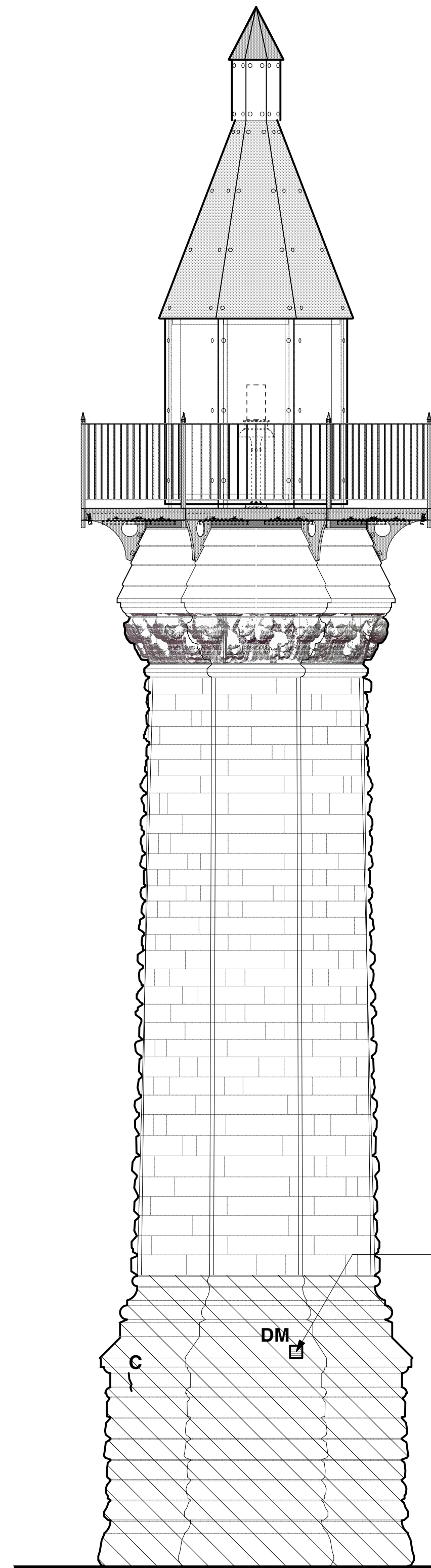
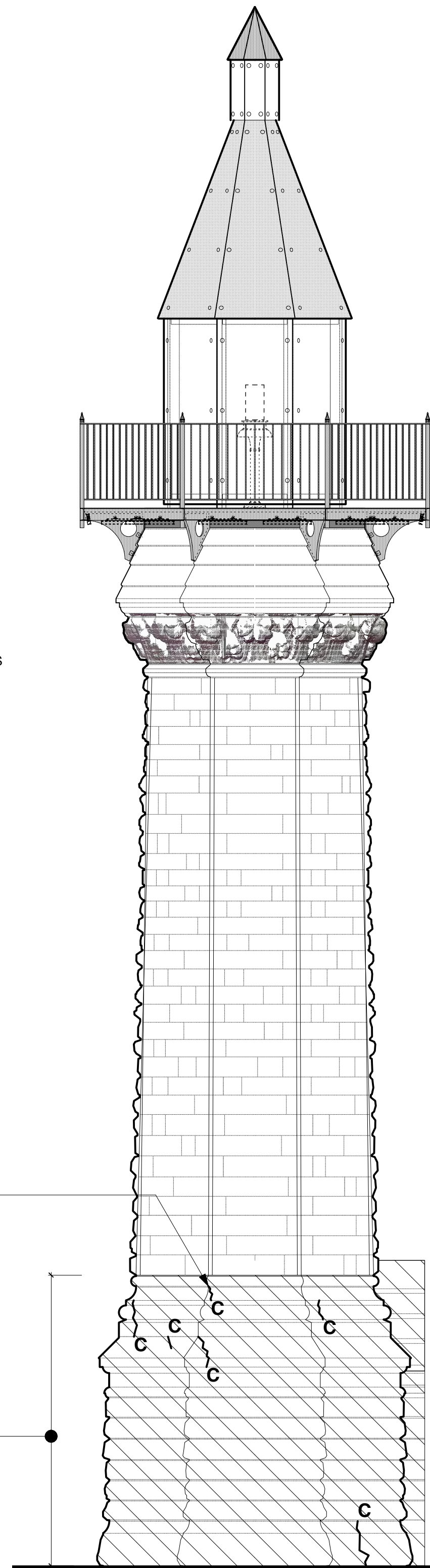
040140 (N) STONE MASONRY CRACK REPAIR (typ.).

RESTORE CARVED STONE ENTABLATURE w/ TEXT AS PER HISTORICAL RECORD.

NB: SEE DOOR & WINDOW SCHEDULE.

040513 (N) STONE MASONRY REPOINTING at TOWER BASE (typ.).

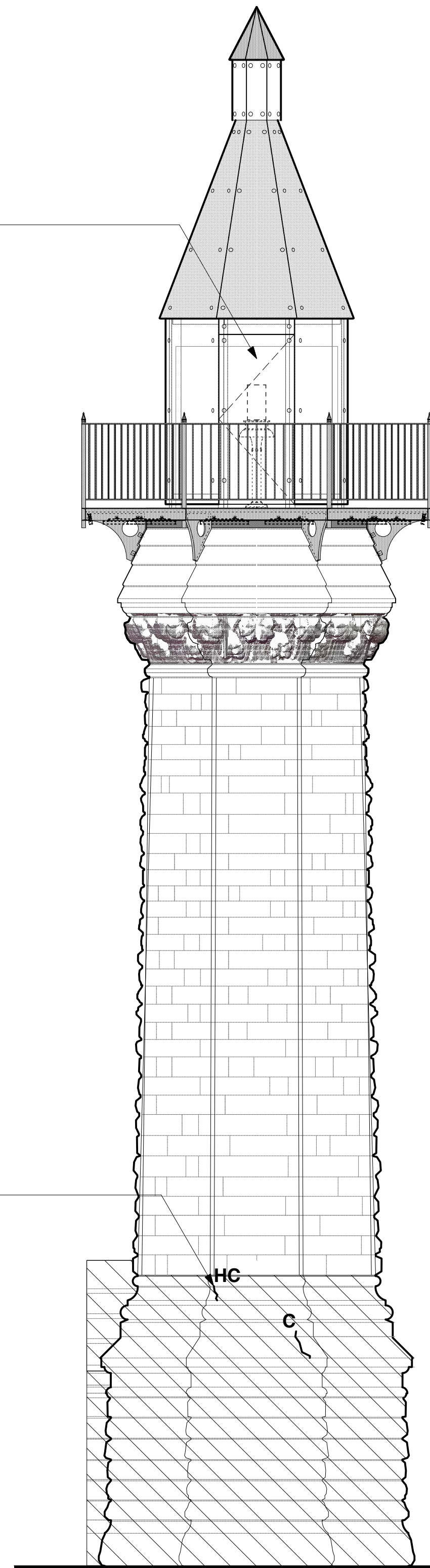
081400 MODIFY & RESTORE (E) HISTORIC METAL DOOR & FRAME incl. HARDWARE.



088000 COORDINATE LOCATION OF OPERABLE GLASS PANEL DOOR w/ SPIRAL STAIR TOP LANDING.

040140 (N) STONE MASONRY HAIRLINE CRACK REPAIR (typ.).

040140 STONE SPALL REPAIR (typ.).



T/O OF (N) LANTERN HOUSE
+64'-2"

T/O OF (N) RAILING
+47'-0"

OBSERVATION DECK
+43'-6"

T/O STONE CROCKET BAND

T/O TOWER SHAFT

UPPER WINDOW

LOWER WINDOW

(N) LANDING LEVEL
+0'-6"
G
0'-0"

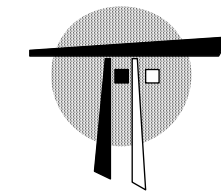
1A SOUTH - ENTRANCE

1B WEST

1C NORTH

1D EAST

1 PRIMARY ELEVATIONS - AS PROPOSED
Scale: 1/4" = 1'-0"



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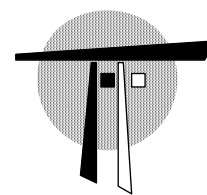
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LIRO DESIGN
REVIEW: 10/9/19.
Amended railing
pickets: 10/17/19.
50% CD set: 12/20/19.
90% CD set: 04/20/20.
100% CD set: 07/06/20.
BID ISSUE: 07/22/20.
DOB ISSUE: 01/20/21.

RENWICK LIGHTHOUSE, Lighthouse Park,
Roosevelt Island, NY 10044
RESTORATION, MODIFICATIONS
& SITE IMPROVEMENTS

TITLE:
ELEVATIONS

DATE: 4/23/18 PROJECT #: 44701
SCALE: AS NOTED DRAWN BY: SH

SHEET NUMBER:
A-200.00
PAGE NUMBER: 7 of 12
NYC DOB NUMBER: M00449536



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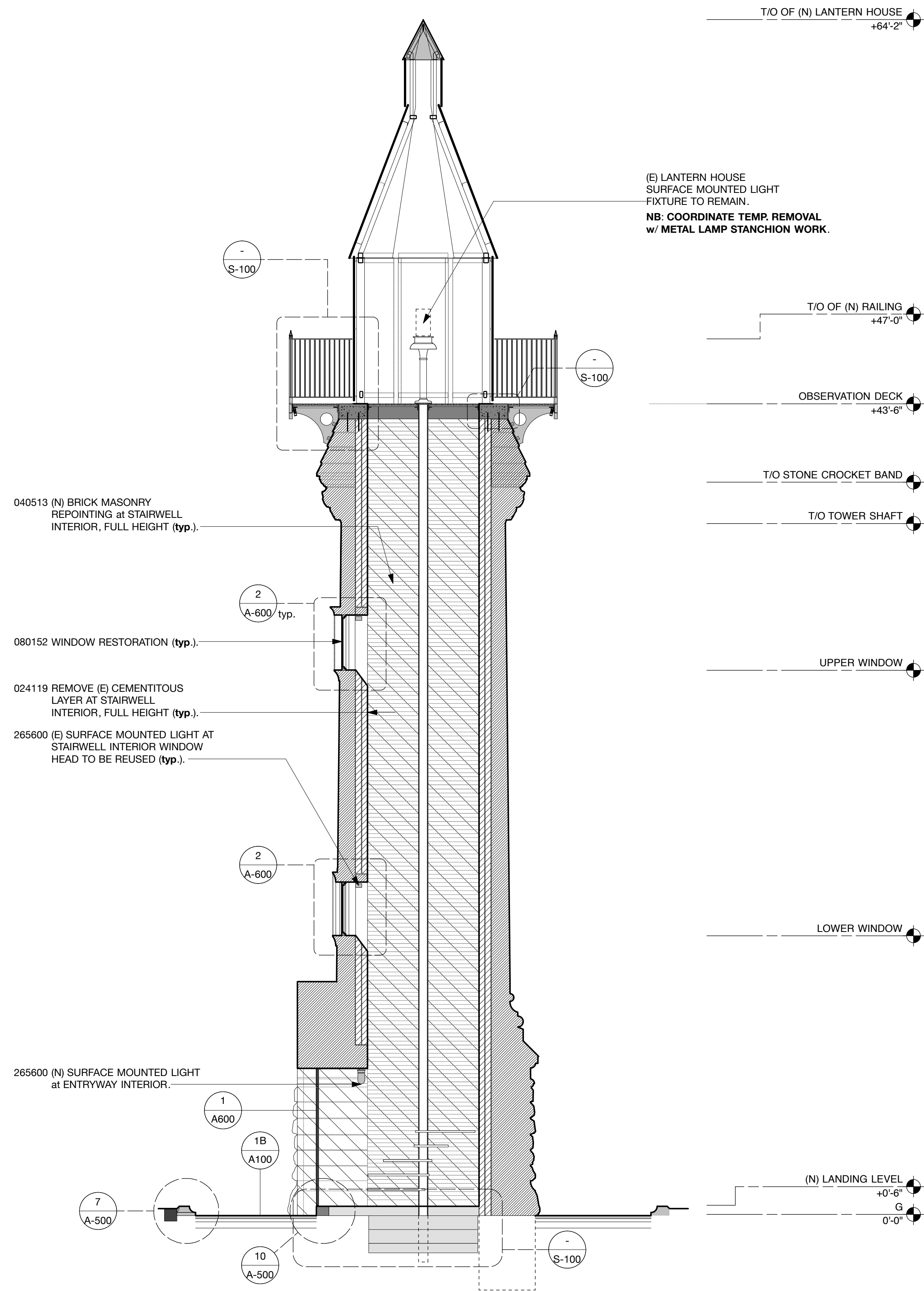
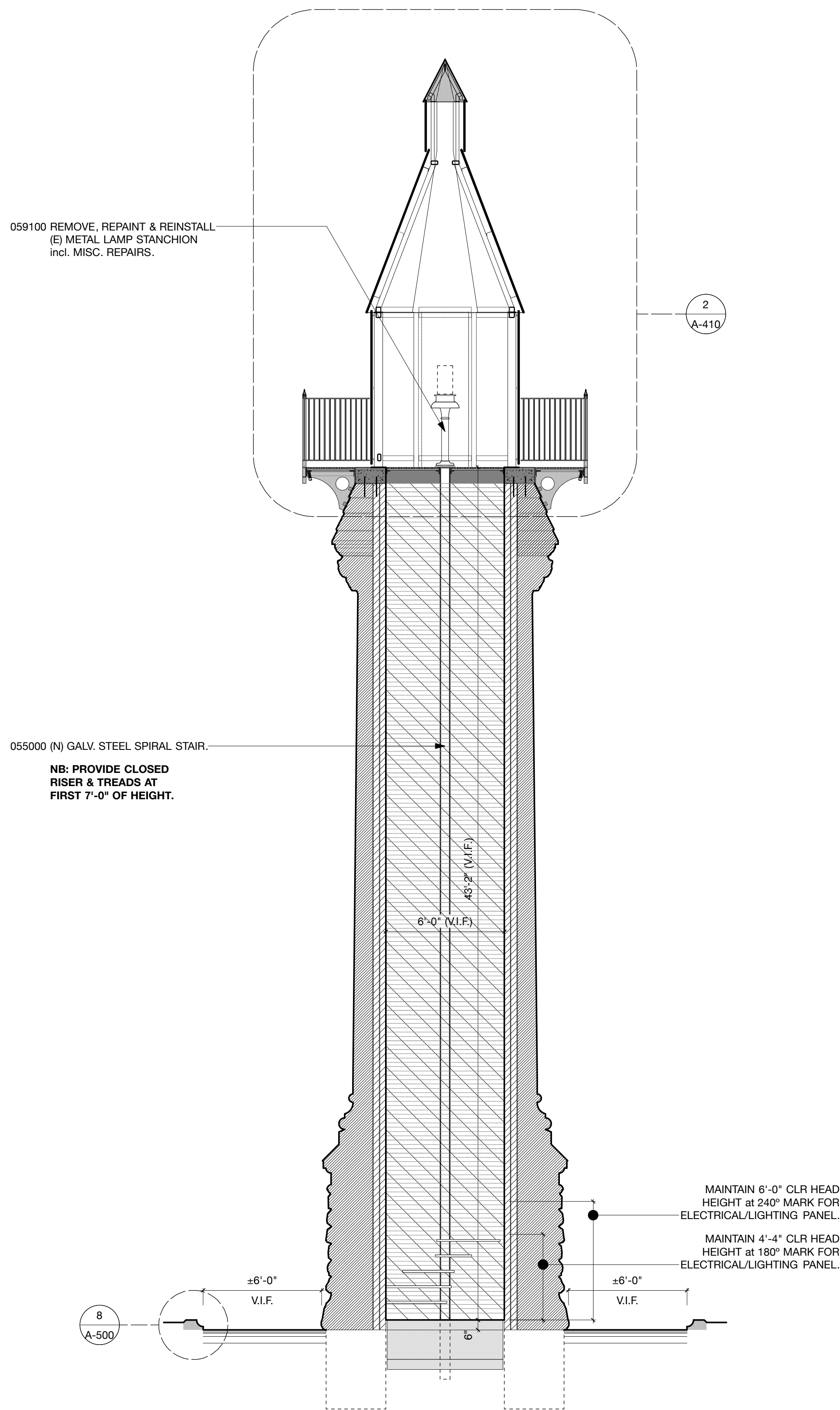
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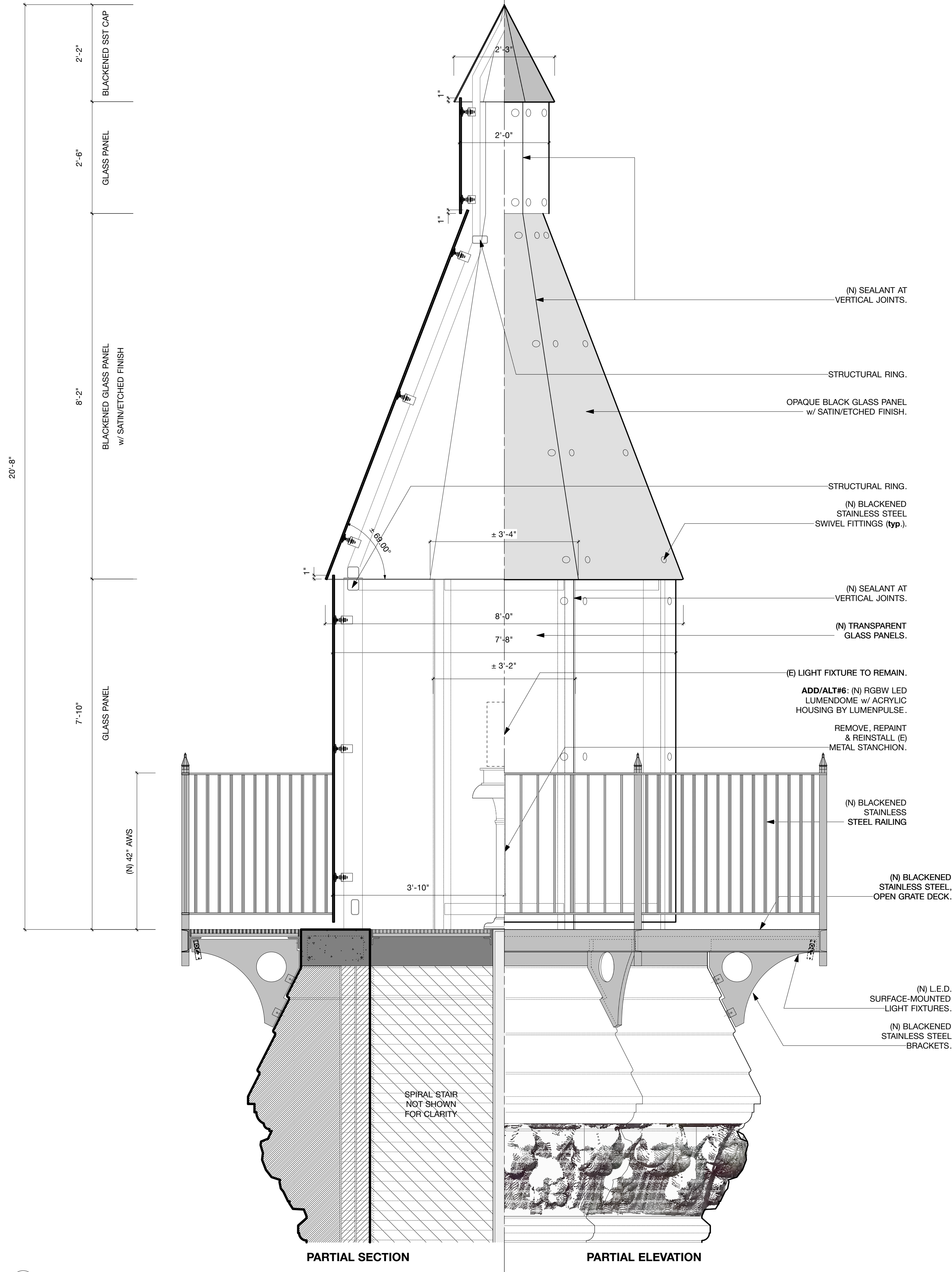


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△ DOB ISSUE: 01/20/21.
△

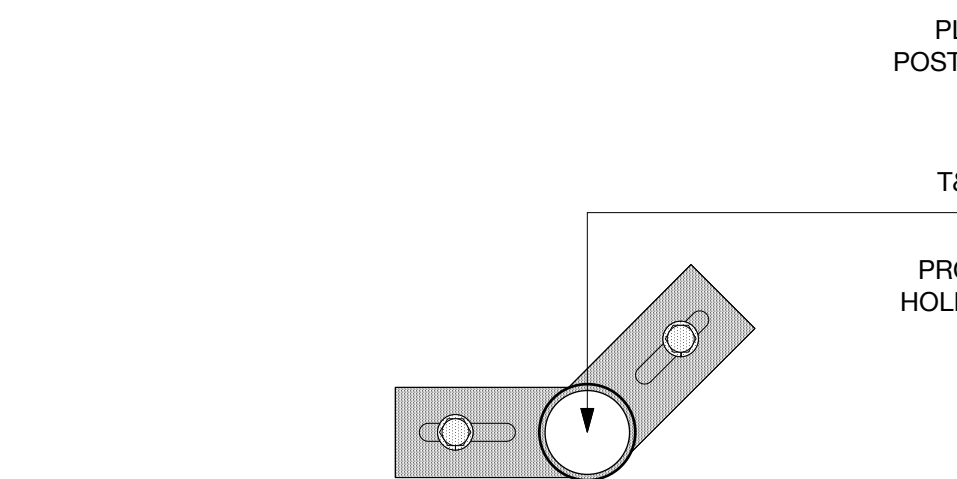
RENWICK LIGHTHOUSE, Lighthouse Park,
Roosevelt Island, NY 10044
RESTORATION, MODIFICATIONS
& SITE IMPROVEMENTS

TITLE: SECTIONS	
DATE: 4/23/18	PROJECT #: 44701
SCALE: AS NOTED	DRAWN BY: SH
SHEET NUMBER: A-300.00	
PAGE NUMBER: NYC DOB NUMBER: M00449536	8 of 12

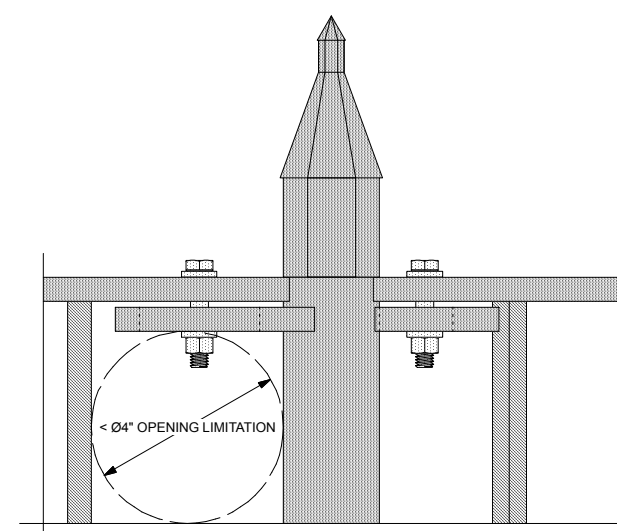




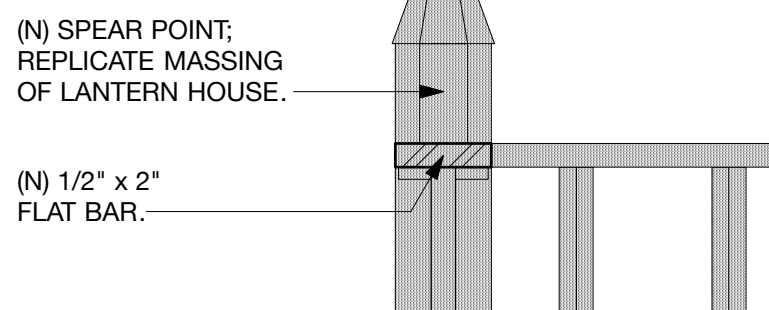
1 LANTERN HOUSE/OBSERVATION DECK
Scale: 3/4" = 1'-0"



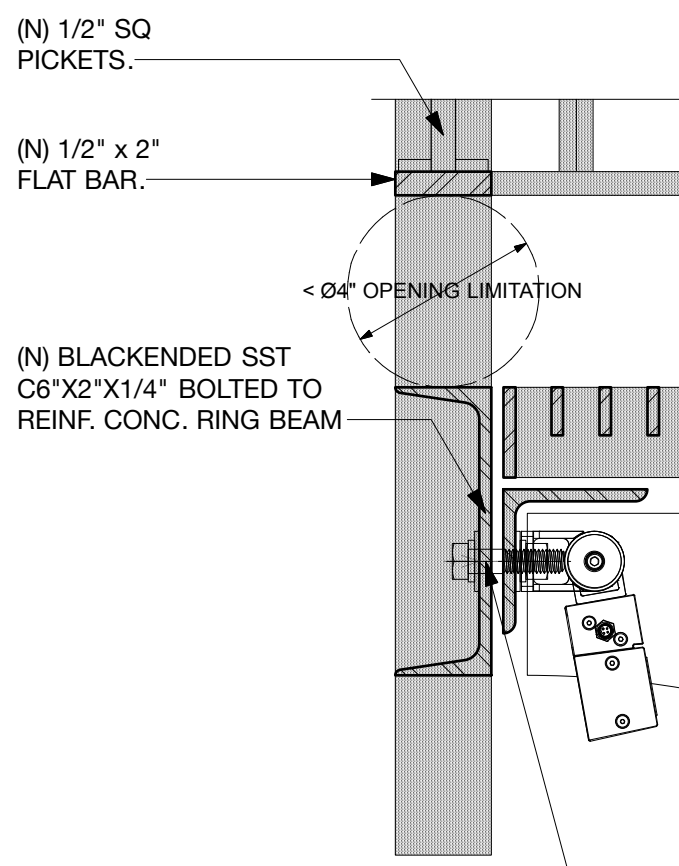
2A PLAN DETAIL - RAILING POST
Scale: 3" = 1'-0"



2B ELEVATION DETAIL - RAILING POST
Scale: 3" = 1'-0"

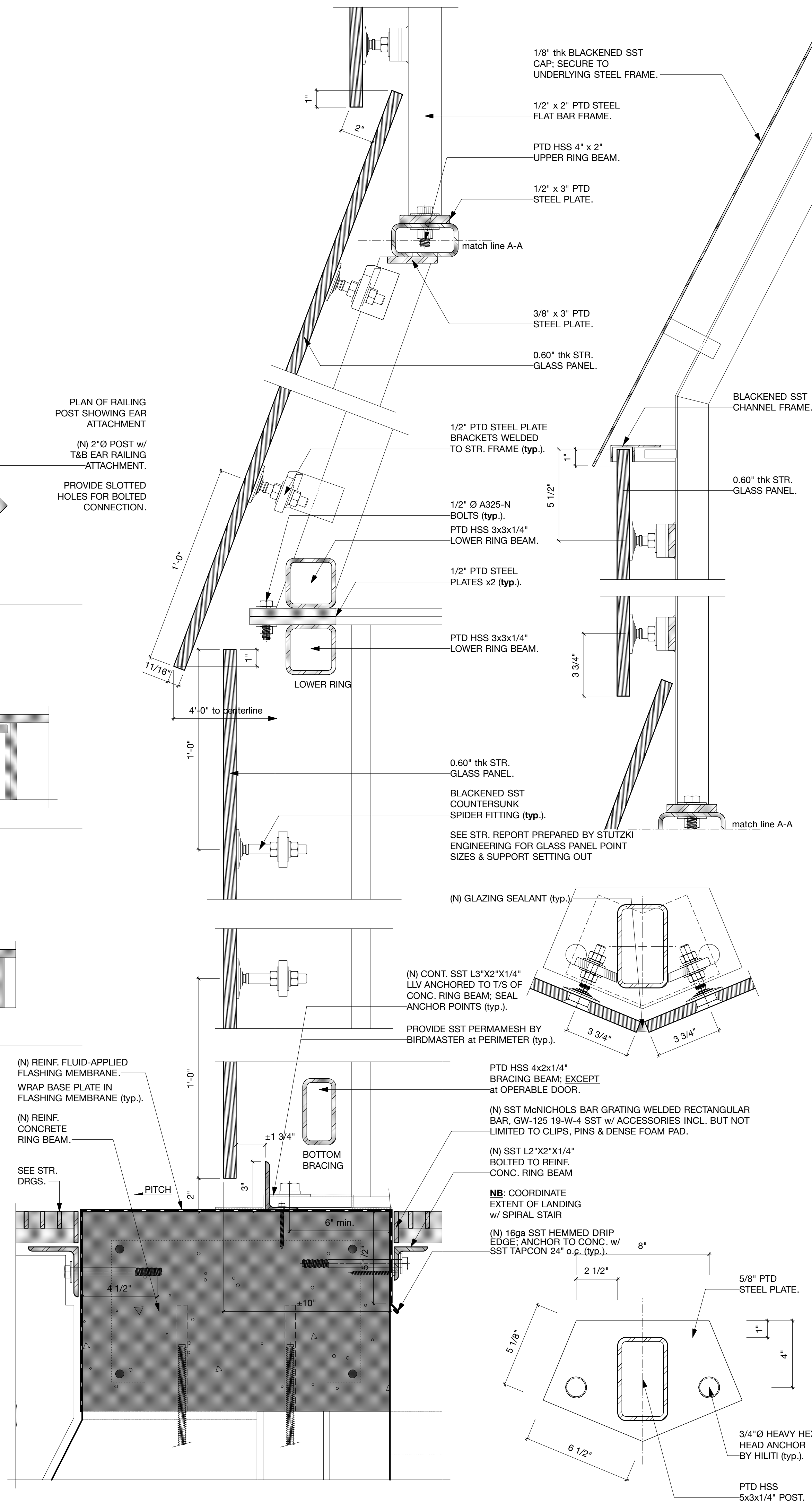


2C SECTION DETAIL - RAILING
Scale: 3" = 1'-0"

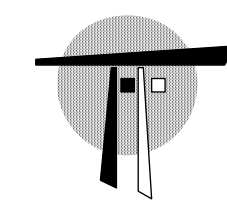


PROVIDE TEMPLATE AT STEEL CHANNEL FOR EXTERIOR LIGHTING ATTACHMENT AS PER MANU.'S RECOMMENDATIONS.

2 SECTION DETAIL - OBSERVATION DECK & LANTERN FRAME
Scale: 3" = 1'-0"



3 PLAN DETAIL - BASE PLATE
Scale: 3" = 1'-0"



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REVISION:

△ 90% CD set: 02/23/20.

△ 90% CD set: 04/20/20.

△ 100% CD set: 07/06/20.

△ BID ISSUE: 07/22/20.

△ Added note to Detail 2.

△ DOB ISSUE: 01/20/21.

△

RENWICK LIGHTHOUSE, Lighthouse Park,
Roosevelt Island, NY 10044

RESTORATION, MODIFICATIONS
& SITE IMPROVEMENTS

TITLE:
LANTERN
HOUSE, NEW

DATE: 4/23/18 PROJECT #: 44701

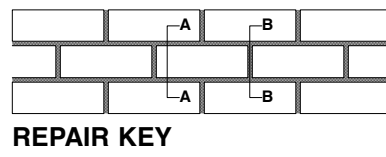
SCALE: AS NOTED DRAWN BY: SH

SHEET NUMBER:

A-410.00

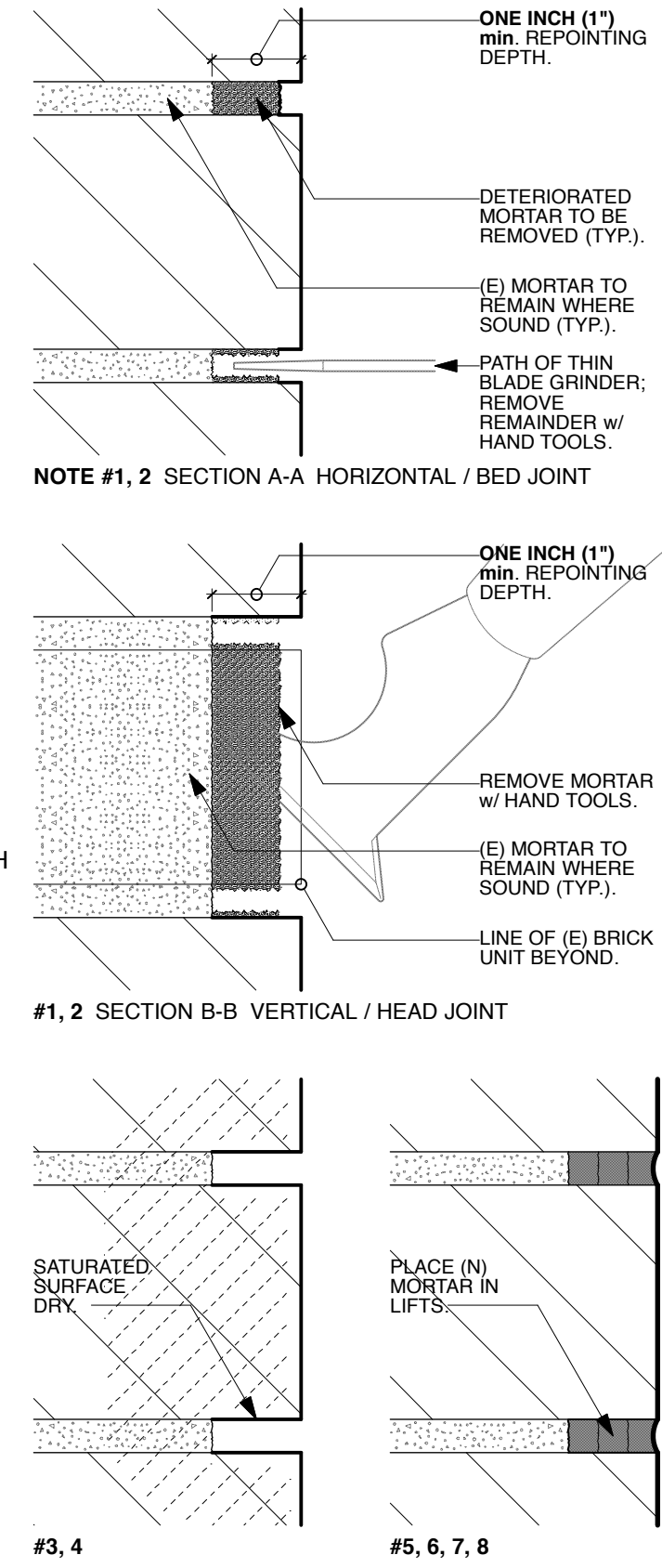
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NYC DOB NUMBER: M00449536



- REPAIR KEY**
1. REMOVE (E) MORTAR TO SUFFICIENT UNIFORM DEPTH (2 TO 2-1/2 x JOINT WIDTH) approx. ONE INCH (1") min. REMOVE LOOSE OR DISINTEGRATED MORTAR BEYOND CUT DEPTH TO SOUND SUBSTRATE.
 2. HORIZONTAL / BED JOINTS: REMOVE (EX MORTAR) w/ HAND TOOLS. VERTICAL / HEAD JOINTS: REMOVE MORTAR w/ HAND TOOLS.
 3. CLEAN OUT JOINTS w/ CLEAN COMPRESSED AIR AND FLUSH w/ CLEAN WATER TO REMOVE ALL LOOSE PARTICLES & DUST.
 4. THOROUGHLY WET MASONRY & (E) MORTAR BEFORE PLACING (N) MORTAR. ALLOW SUFFICIENT TIME FOR JOINTS TO BE DAMP, BUT w/ NO FREESTANDING WATER PRESENT.
 5. PROVIDE (N) MORTAR, TYPE AS PER SPECS, TO MATCH EXISTING COLOUR, TEXTURE & PROFILE. FILL JOINTS BY APPLYING SUCCESSIVE approx. 1/4" LIFTS OF WELL-PACKED MORTAR. ALLOW EACH LAYER OF MORTAR TO BECOME THUMP/PRINT HARD BEFORE APPLYING NEXT LIFT.
 6. TOOL FINAL LAYER OF MORTAR TO MATCH EXISTING. RECESS MORTAR SLIGHTLY FROM FACE OF MASONRY, DO NOT CREATE FEATHERED EDGE.
 7. DURING CURING PROCESS, KEEP MASONRY UNITS & (N) MORTAR DAMP BY MISTING PERIODICALLY AND SHADING FOR SEVERAL DAYS AFTER INSTALLATION, ACCORDING TO LOCAL CONDITIONS. CLEAN REPOINTED MASONRY w/ NATURAL BRISTLE OR NYLON BRUSH.
 8. AFTER FULL CURE, WASH DOWN REPOINTED MASONRY w/ CLEAN WATER AND CONSTRUCTION CLEANER AS PER SPECS.

NB: PROVIDE approx. 2'-0" x 2'-0" MOCK-UP PANEL IN PLACE FOR REVIEW.



NOTE #1, 2 SECTION A-A HORIZONTAL / BED JOINT

#1, 2 SECTION B-B VERTICAL / HEAD JOINT

#3, 4

#5, 6, 7, 8

1 MASONRY REPOINTING

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

NB: PROVIDE approx. 12" SAMPLE IN PLACE FOR ARCHITECT'S REVIEW.

NB: SEE DRG SHEET A600 FOR DETAILS OF STEEL WINDOW RESTORATION.

(E) ADJACENT MASONRY TO REMAIN. TEMPORARY PROTECTION & SHORING AS REQUIRED.

REMOVE (E) MASONRY AS REQUIRED. PARGE BACK-UP MASONRY SMOOTH. REPLACE w/ (N) BRICK MASONRY AS INDICATED. TOOTH INTO ADJACENT MASONRY. **RETAIN & REPOINT HEADERS IF INTACT.**

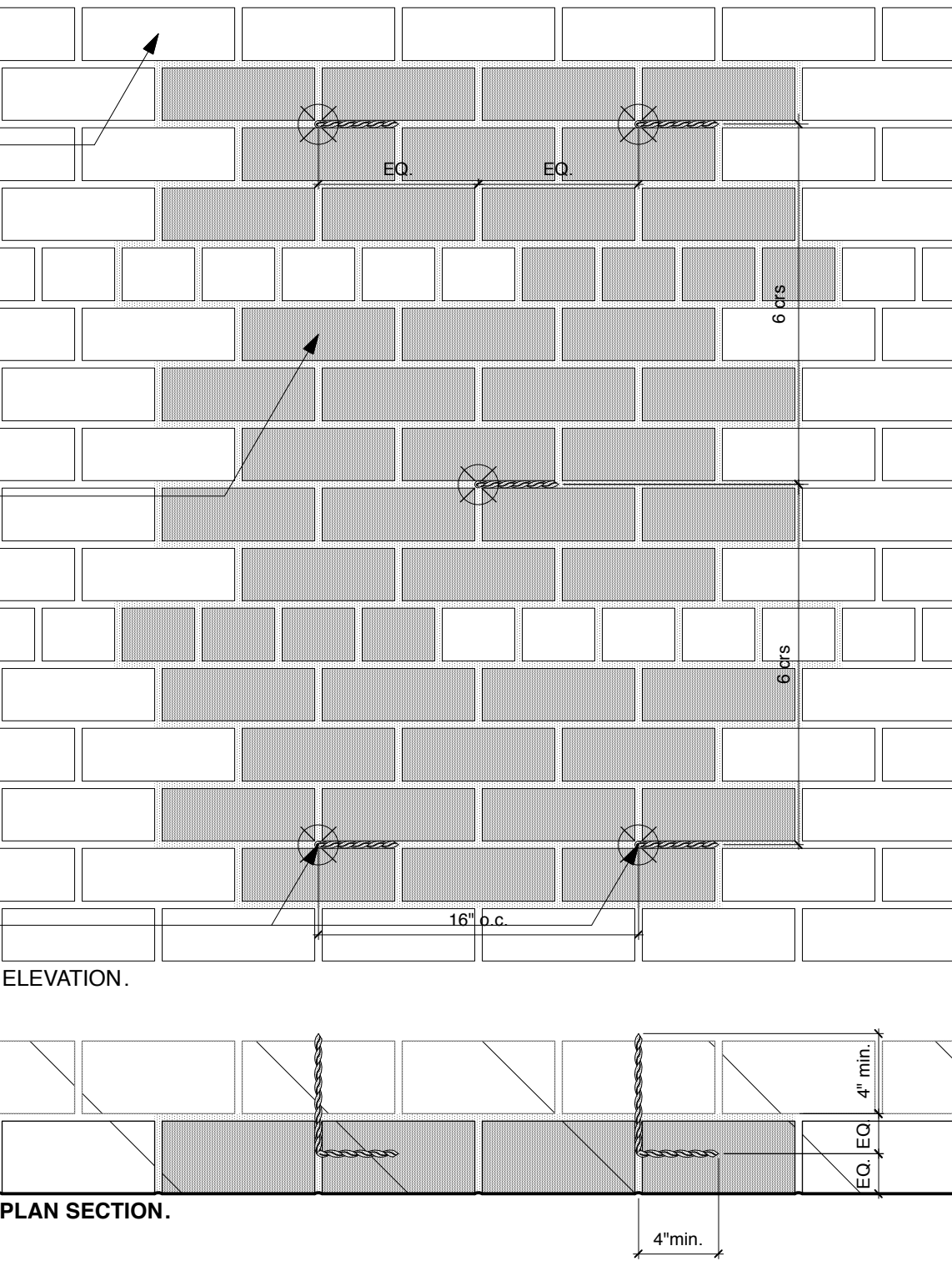
BRICK: COLOR, TEXTURE & SIZE TO MATCH EXISTING. MORTAR: refer to specifications for type. BOND: t.m.e. COURSING: t.m.e.

(N) NON-CORROSIVE HELICAL WALL TIE AT SPACING INDICATED; BEND EXPOSED PORTION OF TIE 90° TO ALIGN w/ CENTRE OF BRICK.

NB: PROVIDE BRICK & MORTAR SAMPLE IN PLACE FOR ARCHITECT'S REVIEW.

2 BRICK MASONRY RECONSTRUCTION (≥ 1 S.F.)

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



ELEVATION.

PLAN SECTION.

5A WINDOW TRIM (LOWER & UPPER FLOOR)

Scale: Half Actual Size

(N) SEALANT w/ BACKER ROD at INTERIOR & EXTERIOR FRAME TO MASONRY OPENING. PROVIDE CONCAVE SURFACE.

(N) ALUM. TRIM w/ TREFOIL PATTERN. ATTACH TO THE (E) WINDOW FRAME IN A HISTORICALLY ACCURATE MANNER.

NB: PROVIDE KYNAR FINISH IN STANDARD COLOR ON BOTH SIDES (typ.).

TEMPORARILY MASK EDGE OF JOINT w/ TAPE PRIOR TO APPLICATION OF SEALANT. REMOVE TAPE AFTER SEALANT HAS BEEN APPLIED.

REMOVE (E) SST SCREEN & DISCARD.

5 SEALANT DETAIL - WINDOW PERIMETER (INTERIOR & EXTERIOR)

Scale: Half Actual Size

(N) BLUESTONE TREAD w/ THERMAL FINISH; COLOR t.m.e. BLUESTONE.

REMOVE & RESET (E) PERIMETER STONE CURBS incl. END UNITS ON (N) CONC. GRADE BEAM.

(N) FLAGSTONE t.m.e.

NB: ASSUME 25% (N) REPLACEMENT UNITS DUE TO DETERIORATION OF (E) FLAGSTONES.

PACK FLAGSTONES JOINTS w/ DRY MORTAR MIX; COLOR tbd.

(N) SAND BED.

(N) GRAVEL SUBBASE. WRAP GRAVEL BED w/ (N) GEO TEXTILE FABRIC.

COMPACTED EARTH WHEN SUBBASE IS REQ'D.

(N) REINF. CONC. GRADE BEAM.

REMOVE & RESET (E) PERIMETER STONE CURB ON (N) CONC. GRADE BEAM.

(N) PERIMETER CURB STONE t.m.e.; x1 LOCATION.

REMOVE (E) FLAGSTONES, PREP & REINSTALL IN HISTORIC RADIAL PATTERN (typ.).

PACK FLAGSTONES JOINTS w/ DRY MORTAR MIX; COLOR tbd.

(N) SAND BED.

(N) GRAVEL SUBBASE. WRAP GRAVEL BED w/ (N) GEO TEXTILE FABRIC.

COMPACTED EARTH WHEN SUBBASE IS REQ'D.

(N) REINF. CONC. GRADE BEAM.

6A STONE DUTCHMAN & REPLACEMENT - ELEVATION

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

3 BRICK MASONRY CRACK REPAIR

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

(E) ADJACENT MASONRY TO REMAIN. TEMPORARY PROTECTION & SHORING AS REQUIRED.

REMOVE (E) MASONRY AT AND SURROUNDING CRACK AS INDICATED. PARGE BACK-UP MASONRY SMOOTH. REPLACE w/ (N) BRICK MASONRY. TOOTH INTO ADJACENT MASONRY. RETAIN HEADERS IF INTACT.

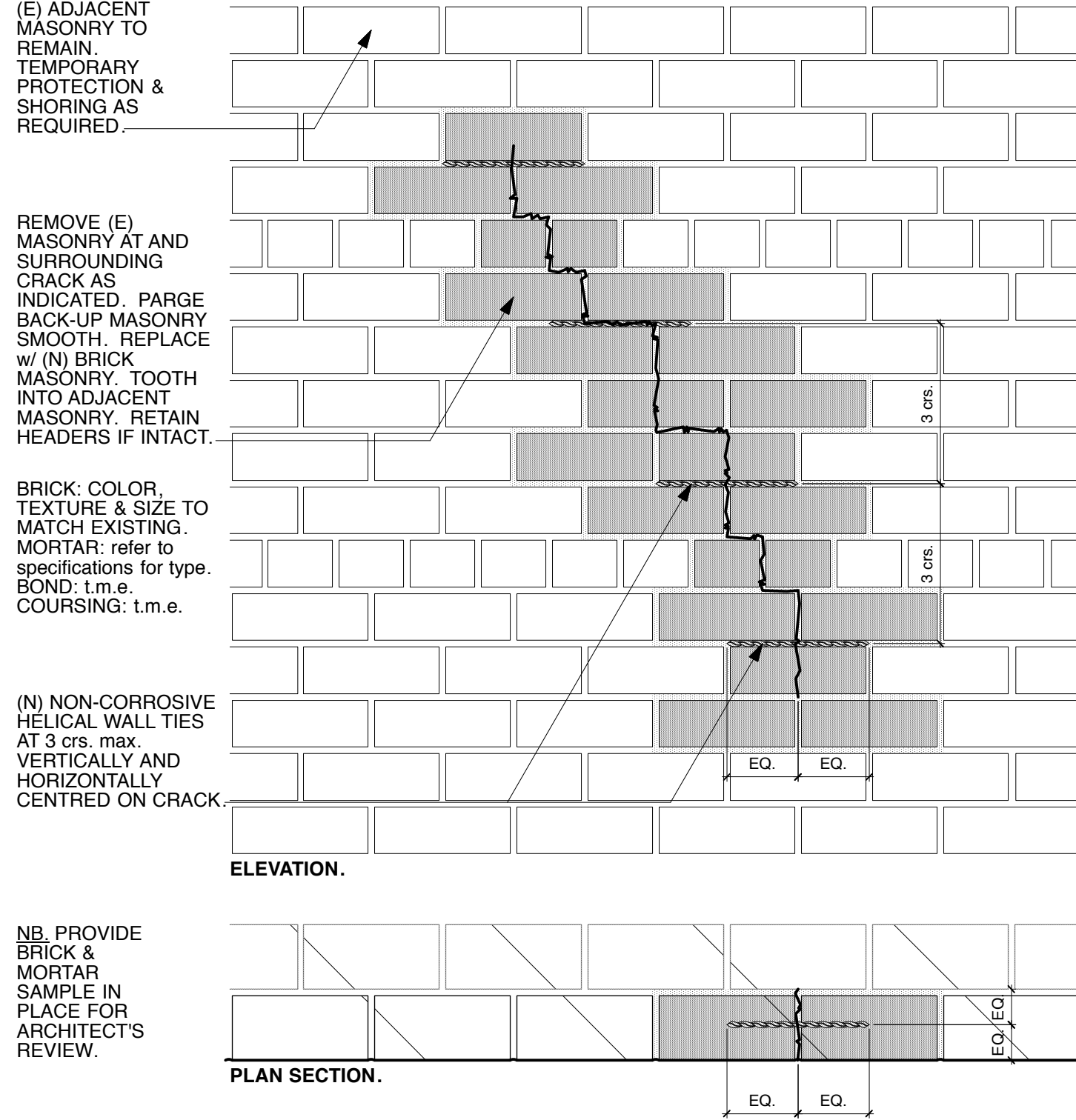
BRICK: COLOR, TEXTURE & SIZE TO MATCH EXISTING. MORTAR: refer to specifications for type. BOND: t.m.e. COURSING: t.m.e.

(N) NON-CORROSIVE HELICAL WALL TIES AT 3 CRS. MAX. VERTICALLY AND HORIZONTALLY CENTRED ON CRACK.

NB: PROVIDE BRICK & MORTAR SAMPLE IN PLACE FOR ARCHITECT'S REVIEW.

3 BRICK MASONRY CRACK REPAIR

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



ELEVATION.

PLAN SECTION.

(E) ADJACENT MASONRY TO REMAIN. TEMPORARY PROTECTION & SHORING AS REQ'D.

REMOVE (E) MASONRY AT SPALL AS INDICATED. PARGE BACK-UP MASONRY SMOOTH. REPLACE w/ (N) BRICK MASONRY. TOOTH INTO ADJACENT MASONRY. RETAIN HEADERS IF INTACT.

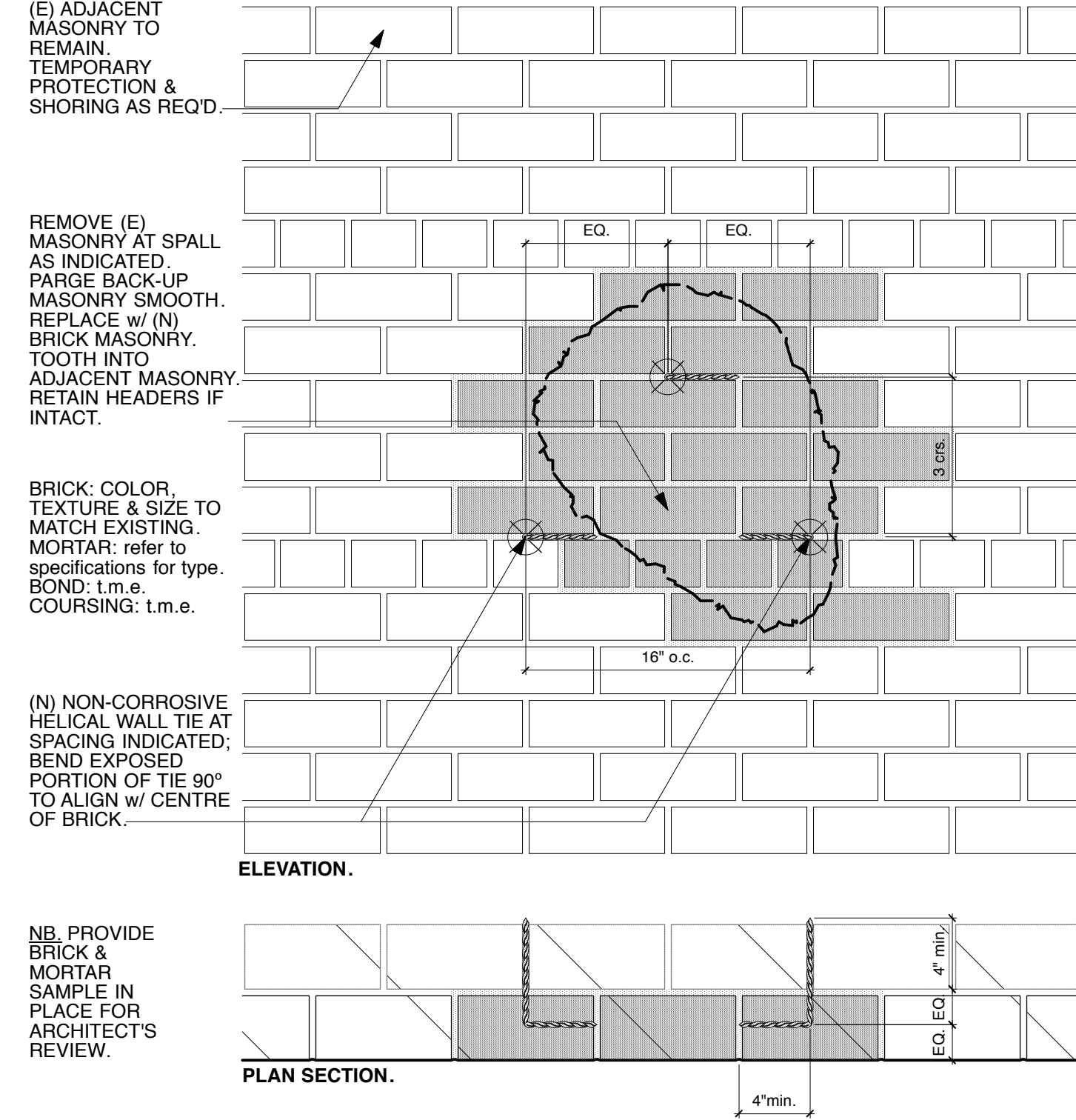
BRICK: COLOR, TEXTURE & SIZE TO MATCH EXISTING. MORTAR: refer to specifications for type. BOND: t.m.e. COURSING: t.m.e.

(N) NON-CORROSIVE HELICAL WALL TIE AT SPACING INDICATED; BEND EXPOSED PORTION OF TIE 90° TO ALIGN w/ CENTRE OF BRICK.

NB: PROVIDE BRICK & MORTAR SAMPLE IN PLACE FOR ARCHITECT'S REVIEW.

4 BRICK MASONRY SPALL REPAIR

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



ELEVATION.

PLAN SECTION.

(E) BACKUP MASONRY TO REMAIN.

INSTALL (N) REPLACEMENT STONE; TYPE, TEXTURE, PROFILE & SIZE t.m.e. **NB: PROVIDE** SAMPLE OF REPLACEMENT STONE & FINISH FOR ARCHITECT'S REVIEW PRIOR TO FABRICATION.

(N) 3/8" Ø SST THREADED RODS SET IN EPOXY.

(N) STONE DUTCHMAN (PARTIAL STONE REPLACEMENT). STONE PROFILE & FINISH TO MATCH EXISTING. MATE NEW STONE TO EXISTING w/ SST PINS SET IN EPOXY.

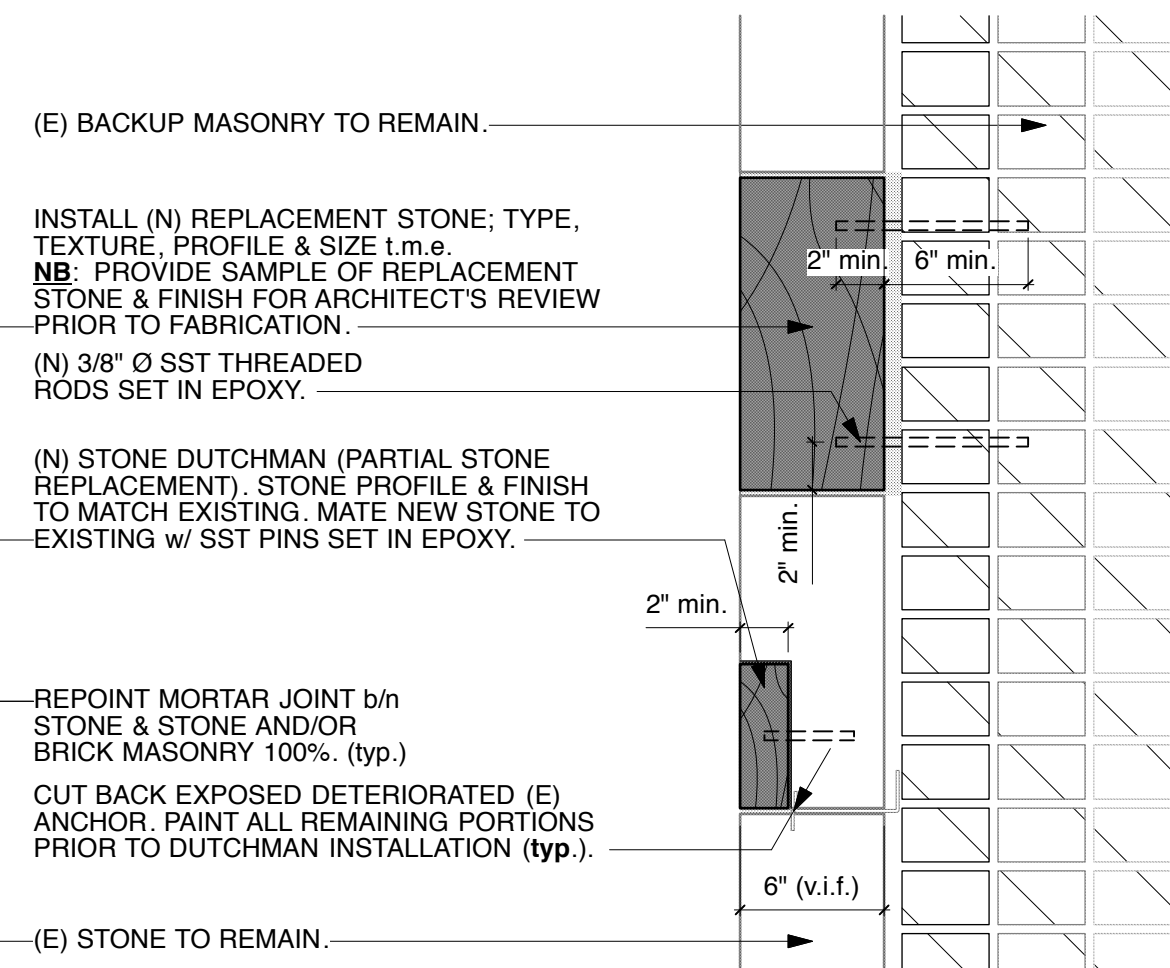
REPOINT MORTAR JOINT b/n STONE & STONE AND/OR BRICK MASONRY 100%. (typ.)

CUT BACK EXPOSED DETERIORATED (E) ANCHOR. PAINT ALL REMAINING PORTIONS PRIOR TO DUTCHMAN INSTALLATION (typ.).

(E) STONE TO REMAIN.

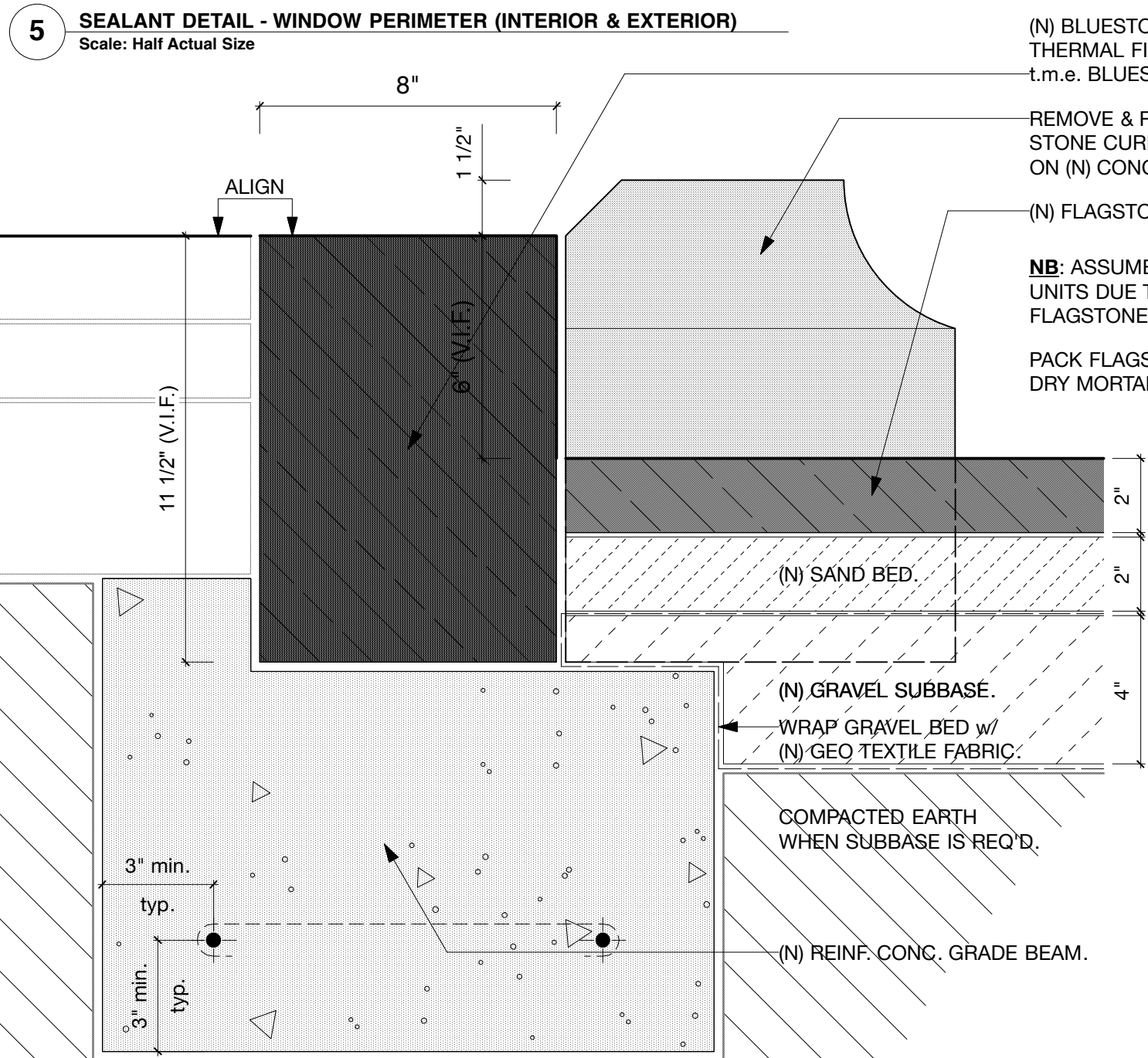
6B STONE DUTCHMAN & REPLACEMENT - ELEVATION

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



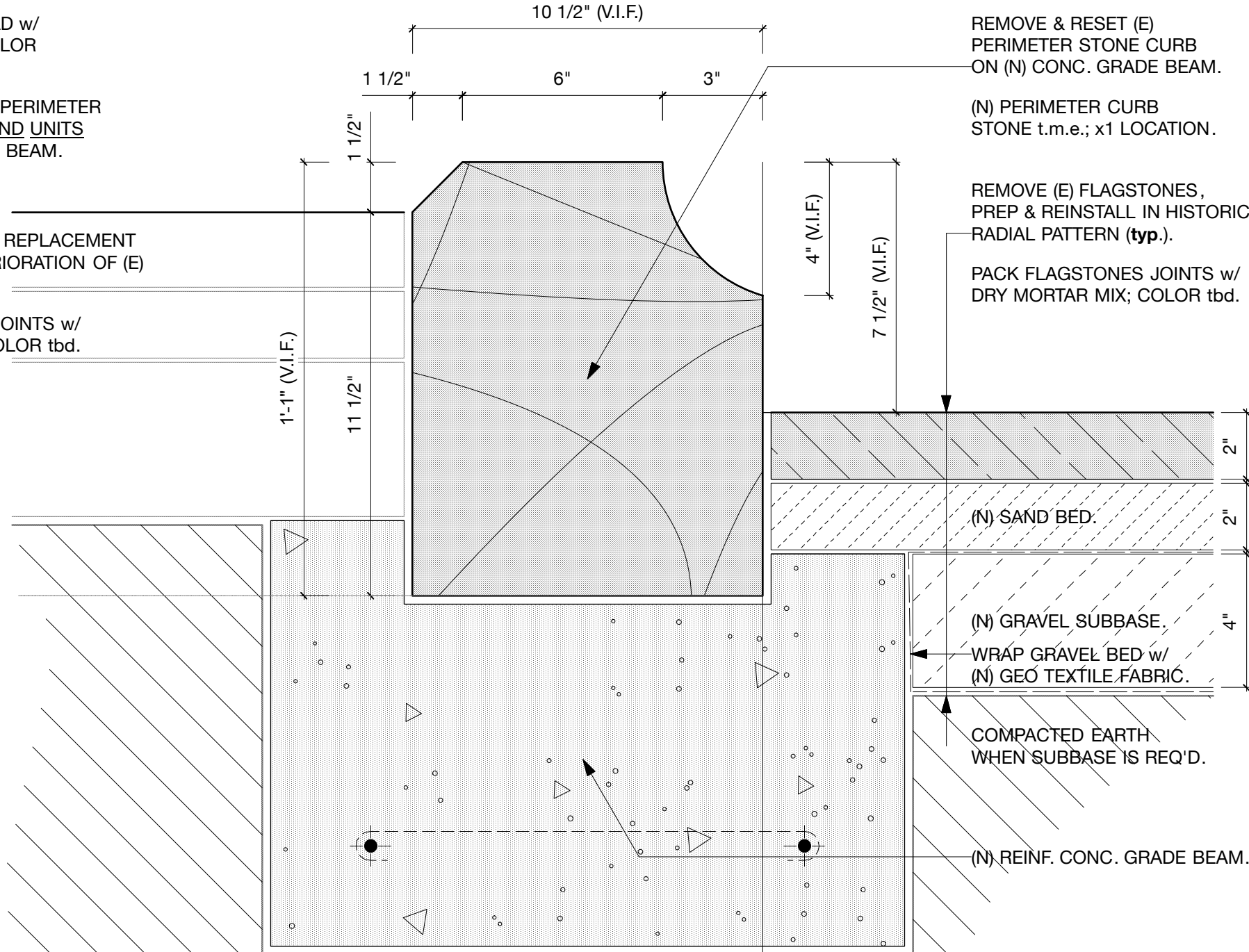
7 STONE TREAD - APPROACH

Scale: 3" = 1'-0"



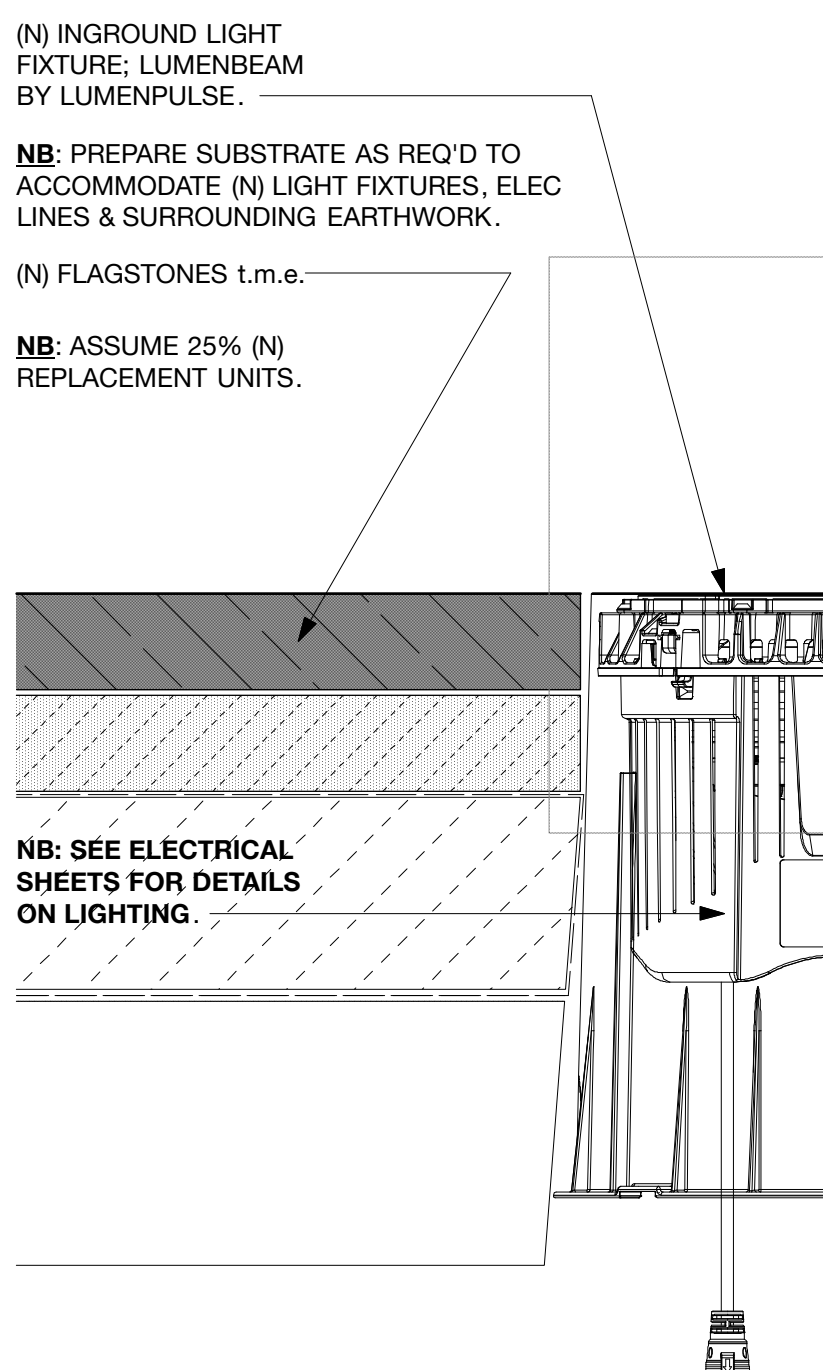
8 STONE CURB & FLAGSTONE RESETTING

Scale: 3" = 1'-0"



9 INGROUND LIGHT FIXTURE

Scale: 3" = 1'-0"



(N) INGROUND LIGHT FIXTURE; LUMENBEAM BY LUMENPULSE.

NB: PREPARE SUBSTRATE AS REQ'D TO ACCOMMODATE (N) LIGHT FIXTURES, ELEC LINES & SURROUNDING EARTHWORK.

(N) FLAGSTONES t.m.e.

NB: ASSUME 25% (N) REPLACEMENT UNITS.

NB: SEE ELECTRICAL SHEETS FOR DETAILS ON LIGHTING.

METAL DOOR MODIFICATION & RESTORATION. SEE DRG A600 FOR EXTENT OF WORK.

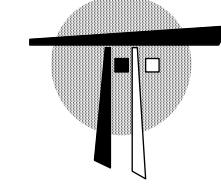
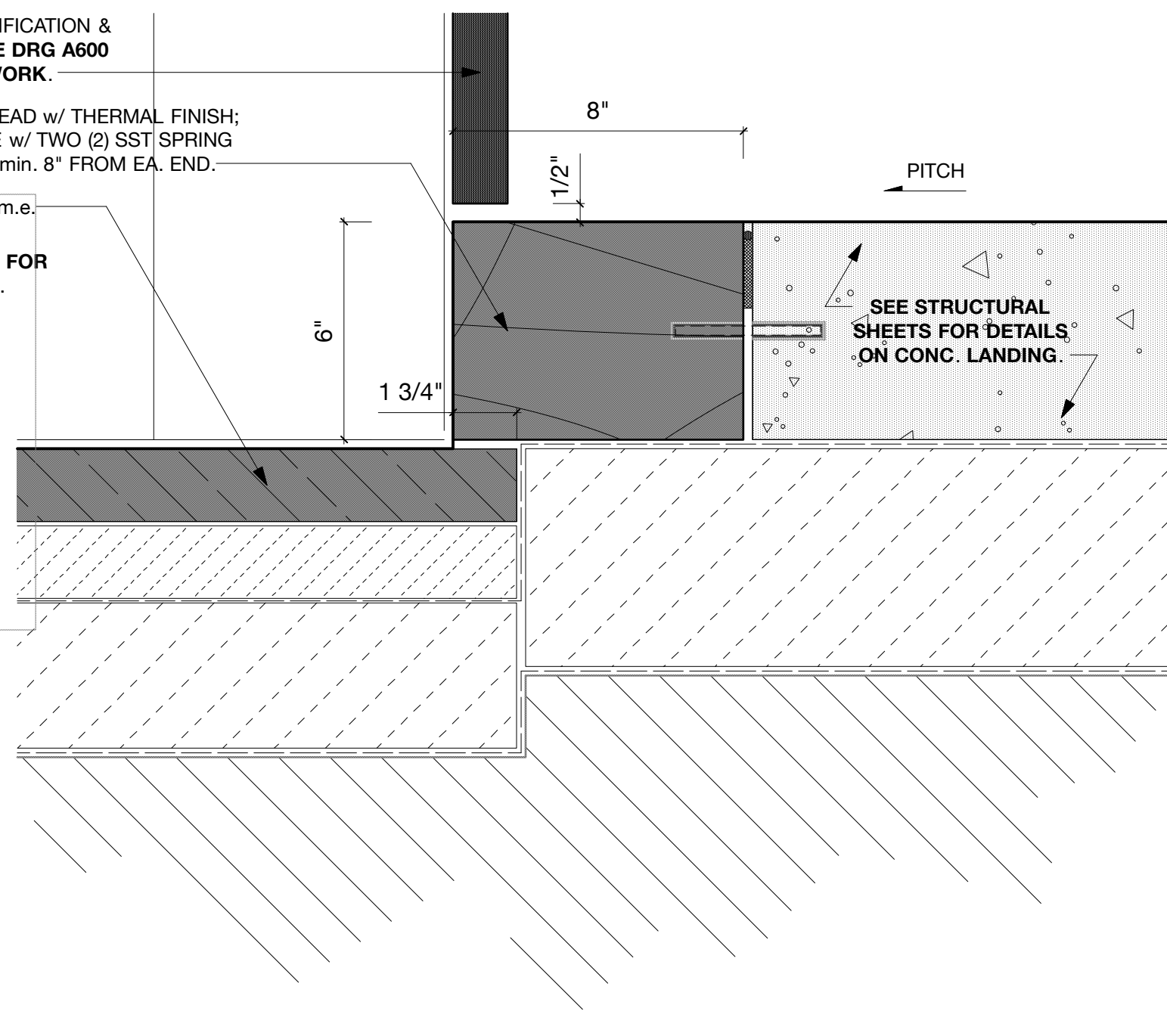
(N) BLUESTONE TREAD w/ THERMAL FINISH; PIN TO SUBSTRATE w/ TWO (2) SST SPRING LOADED DOWELS, min. 8" FROM EA. END.

(N) FLAGSTONES t.m.e.

NB: SEE DRG A100 FOR EXTENT OF WORK.

10 STONE TREAD - ENTRANCE

Scale: 3" = 1'-0"



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SEAL:



REVISION:

- △ 50% CD set: 12/20/19
- △ 90% CD set: 02/24/20
- △ 90% CD set: 04/20/20
- △ 100% CD set: 07/06/20
- △ BID ISSUE: 07/22/20
- △ DOB ISSUE: 01/20/21
- △

**RENWICK LIGHTHOUSE, Lighthouse Park,
RESTORATION, MODIFICATIONS
& SITE IMPROVEMENTS**

TITLE:

DETAILS

DATE: 4/23/18 PROJECT #: 44701

SCALE: AS NOTED DRAWN BY: SH

SHEET NUMBER:

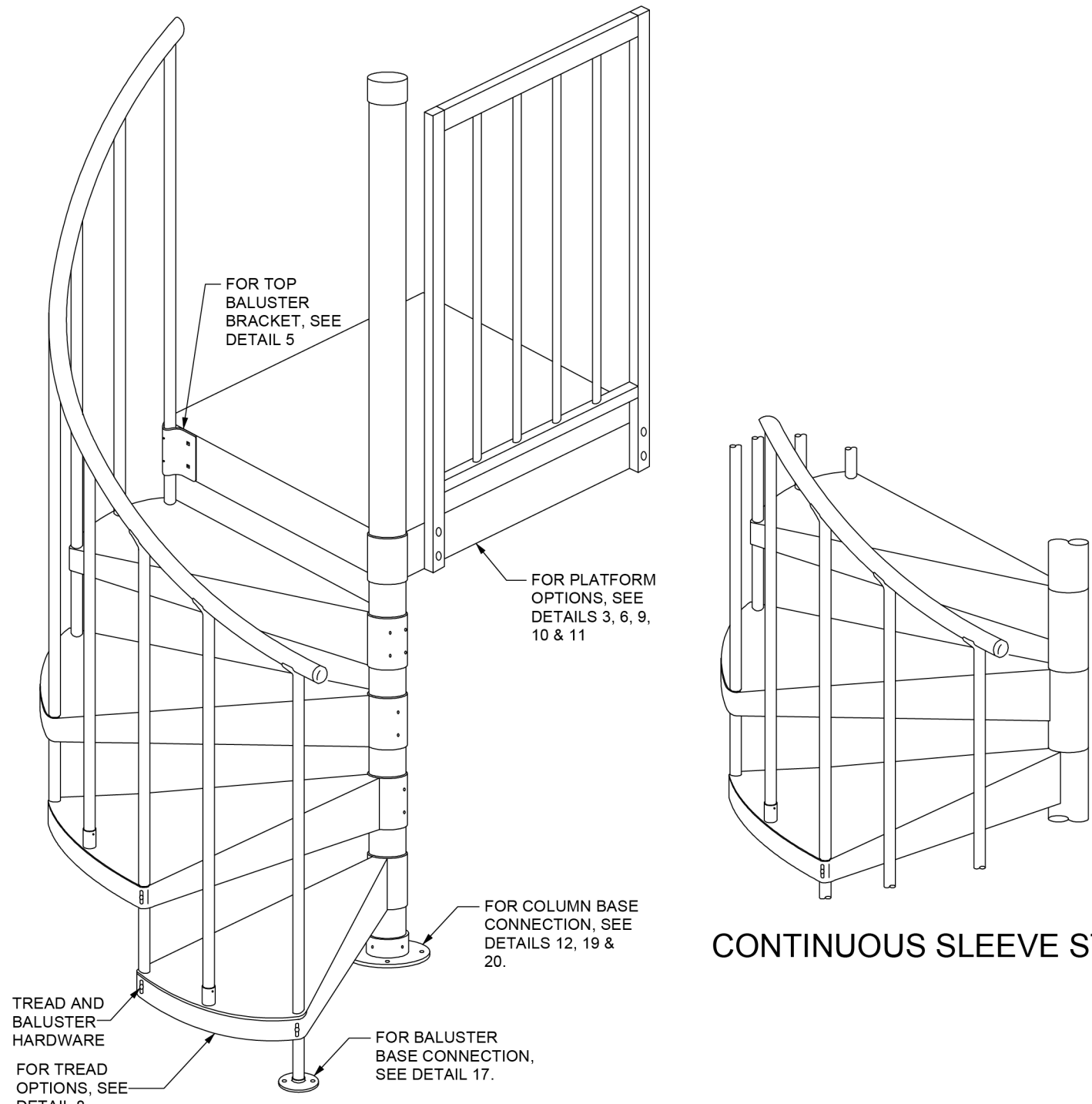
A-500.00

PAGE NUMBER: 10 of 12

NYC DOB NUMBER:
M00449536

STAIR NOTES:

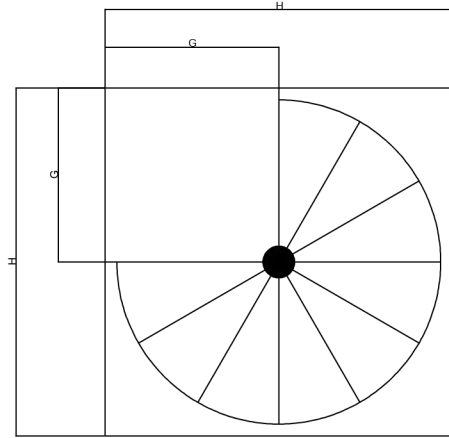
- ALL WORK SHALL BE PERFORMED IN STRICT COMPLIANCE WITH LOCAL AND STATE BUILDING CODE REQUIREMENTS.
- GENERAL CONTRACTOR IS RESPONSIBLE FOR INSURING THAT ALL WORK BE PERFORMED IN STRICT COMPLIANCE WITH OSHA SAFETY REQUIREMENTS.
- CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS PRIOR TO START OF CONSTRUCTION.
- FOUNDATIONS SHALL REST ON UNDISTURBED SOIL CAPABLE OF A MINIMUM BEARING PRESSURE OF 2,000 PSF. THE ENGINEER SHALL BE NOTIFIED FOR REDESIGN IF THIS MINIMUM VALUE CANNOT BE ATTAINED.
- ALL CONCRETE CONSTRUCTION SHALL CONFORM WITH ACI 318.02. ALL CONCRETE SHALL DEVELOP A MINIMUM ULTIMATE COMPRESSIVE STRENGTH OF 3,000 PSI IN 28 DAYS.
- NO CONCRETE SHALL BE POURED WHEN THE TEMPERATURE IS 40 DEGREES FARENHEIT AND FALLING. ALL CONCRETE SHALL BE CURED IN ACCORDANCE WITH THE LATEST ACI CODE.
- ALL CONCRETE EXPOSED TO WEATHER SHALL CONTAIN AN AIR ENTRAINED ADMIXTURE CONFORMING TO ASTM A 185.
- ALL REINFORCING STEEL SHALL BE ASTM A 615, GRADE 60. ALL WELDED WIRE MESH SHALL CONFORM TO ASTM A 185.
- ALL STRUCTURAL STEEL FABRICATION AND ERECTION SHALL CONFORM TO AISC "SPECIFICATIONS FOR STRUCTURAL STEEL BUILDINGS" NINTH EDITION, AND AWS "CODE FOR ARC AND GAS WELDING IN BUILDING CONSTRUCTION". ANCHOR BOLTS SHALL BE ASTM A 307, ALL STEEL SHALL BE CLEANED OF RUST, LOOSE MILL SCALE AND OTHER FOREIGN MATERIALS.
- ALL SHOP AND FIELD WELDING SHALL CONFORM WITH AWS D1.1-03 SPECIFICATIONS. ALL FIELD BOTLS SHALL BE ASTM A 325.
- ALL WOOD FRAMING SHALL CONFIRM TO THE RECOMMENDED PRACTICE OF THE NATIONAL SPECIFICATIO OF THE NATIONAL FOREST PRODUCTS ASSOCIATION.
- CUSTOM OPTIONS ARE AVAILABLE FOR PLATFORMS, TREADS AND RAILS. TYPICAL WIDTH OF ALL PLATFORMS IS ONE INCH LARGER THAN THE RADIUS OF THE STAIRS; HOWEVER, CUSTOM SIZES ARE AVAILABLE. CUSTOM PIECES FOR ALL ASPECTS OF THE STAIR CAN BE CREATED.



ADJUSTABLE SLEEVE STAIR

STEEL SPIRAL STAIR ISOMETRIC

CONTINUOUS SLEEVE STAIR



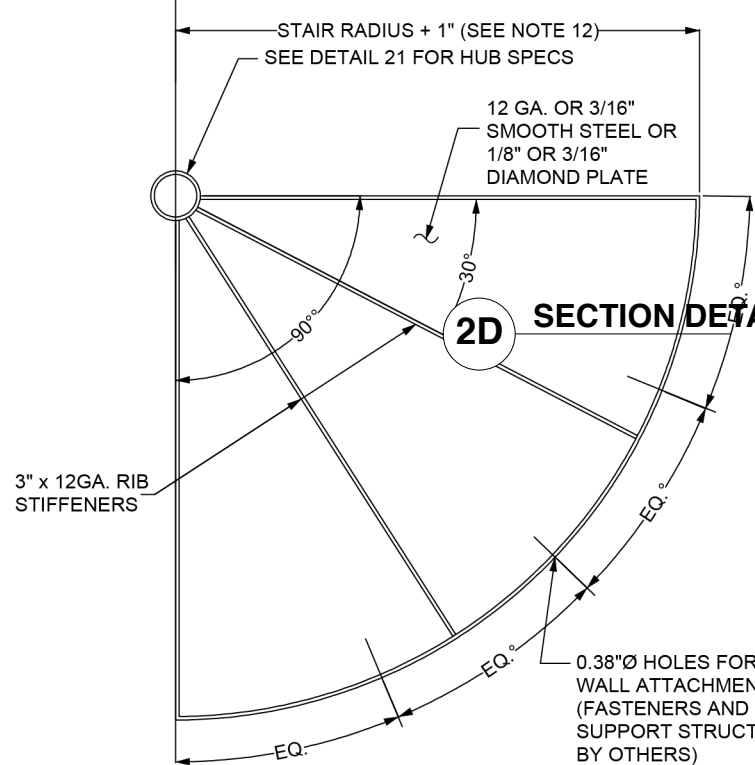
A = TREAD RADIUS
B = CLEAR WALKING PATH
C = TRUE TREAD DEPTH
D = STEEL TREAD WIDTH
E = WOOD COVER WIDTH
F = HUB HEIGHT
G = PLATFORM SIZE
H = RECOMMENDED FINISHED WELL OPENING
I = TREAD OVERHANG

DIAMETER OF STAIR	30" 3'-6"	30" 4'-0"	30" 4'-6"	22.5" 5'-0"	30" 5'-0"	22.5" 5'-6"	30" 5'-6"	16.36" 5'-6"	22.5" 6'-0"	30" 6'-0"	16.36" 6'-6"
A	20 1/2"	23 1/2"	26 1/2"	29 1/2"	29 1/2"	32 1/2"	32 1/2"	32 1/2"	35 1/2"	35 1/2"	38 1/2"
B	17"	20"	23"	26"	26"	29"	29"	29"	32"	32"	35"
C	7 1/2"	7 1/2"	7 1/2"	5 9/16"	7 1/2"	5 9/16"	7 1/2"	4"	5 9/16"	7 1/2"	4"
D	11 1/2"	13 1/4"	15"	13"	16"	14"	17 1/2"	10 3/4"	15"	19 1/2"	12 1/2"
E	13 1/2"	15 1/4"	17"	15"	18"	16"	19 1/2"	12 3/4"	17"	21 1/2"	14 1/2"
F	4"	4"	5"	5"	5"	6"	6"	6"	6"	6"	6"
G	22"x22"	25"x25"	28"x28"	31"x31"	31"x31"	34"x34"	34"x34"	N/A	37"x37"	37"x37"	N/A
H	44"x44"	50"x50"	56"x56"	62"x62"	62"x62"	68"x68"	68"x68"	36"x67"	74"x74"	74"x74"	42"x79"
I	7 5/16"	7 5/16"	7 5/16"	5 1/2"	7 5/16"	5 1/2"	7 5/16"	4"	5 1/2"	7 5/16"	4"
ROTATION WITH 12 TREADS	360	360	360	270	360	270	360	180	270	360	180

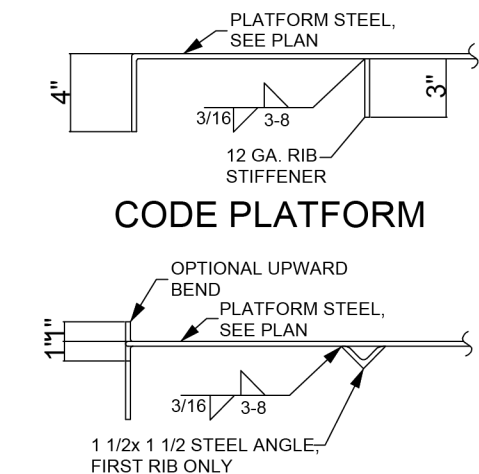
TREAD SIZES & DIMENSION CHART

COLUMNS			
O.D.	I.D.	WALL THICK	MATERIAL
3.5"	3.25"	0.120"	TUBE
3.5"	3.068"	0.216"	SCHD 40 PIPE
3.5"	2.9"	0.300"	SCHD 80 PIPE
6"	5.625"	0.188"	TUBE
6.625"	6.065"	0.280"	SCHD 40 PIPE
HUBS			
O.D.	I.D.	WALL THICK	MATERIAL
4"	3.56"	0.220"	TUBE

COLUMN & HUB SCHEDULE

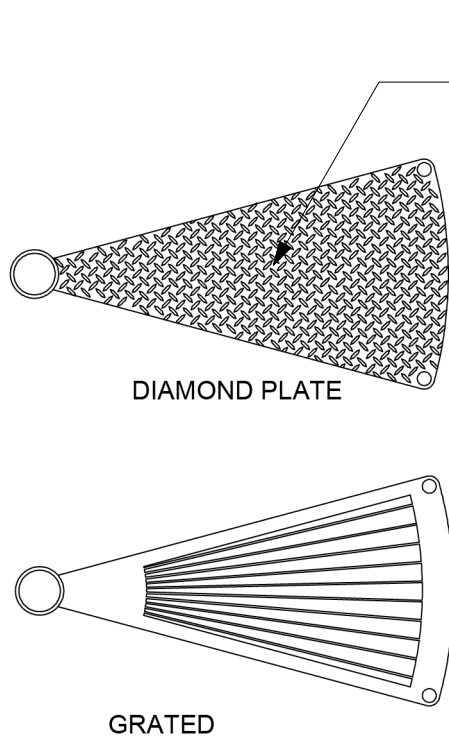


90° "CURVED" PLATFORM PLAN

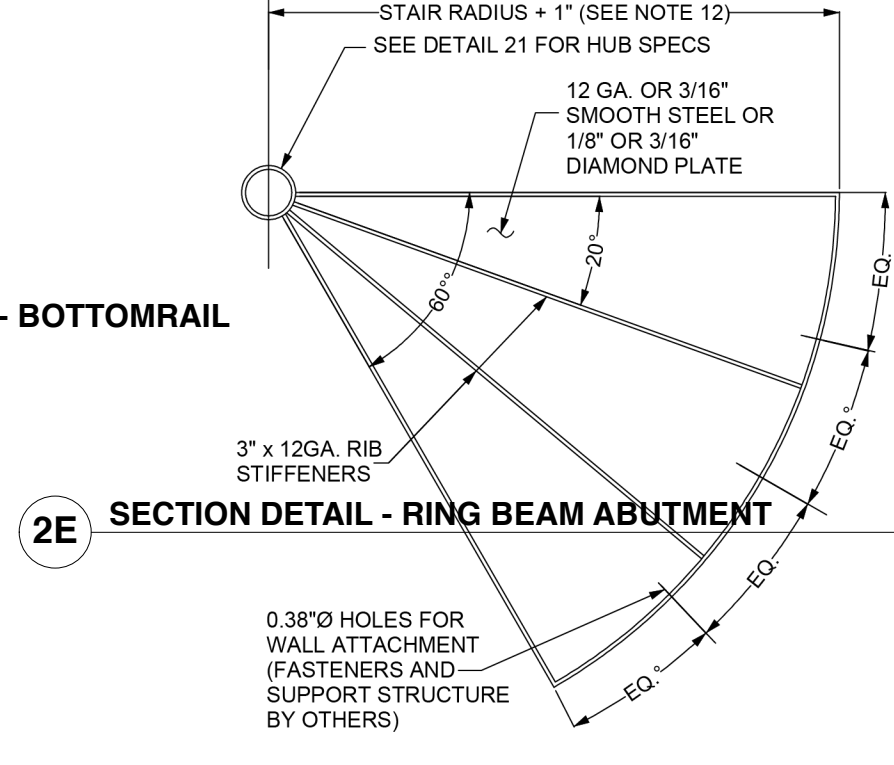


MAX. HEADROOM PLATFORM

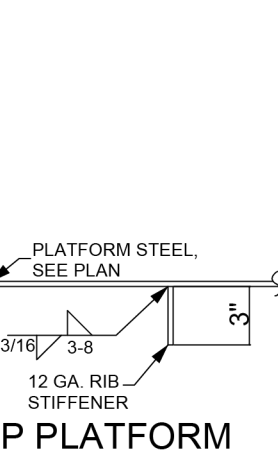
PLATFORM SECTION



TREAD TOPS

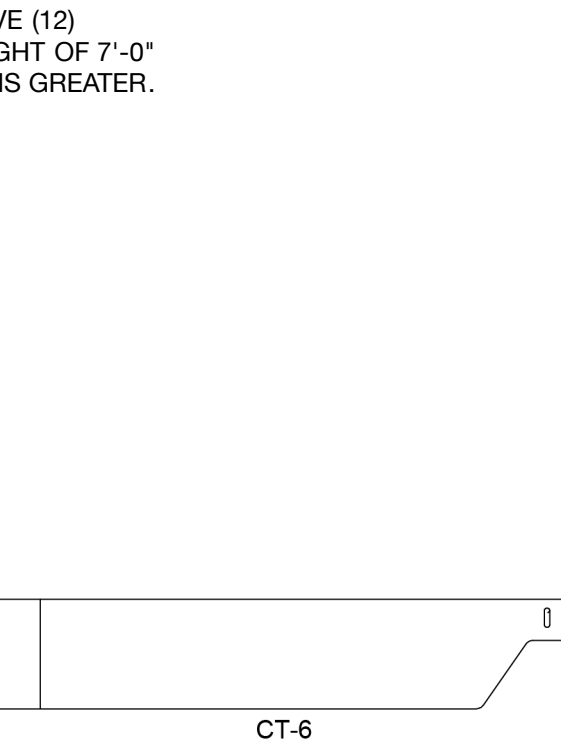


60° "CURVED" PLATFORM PLAN

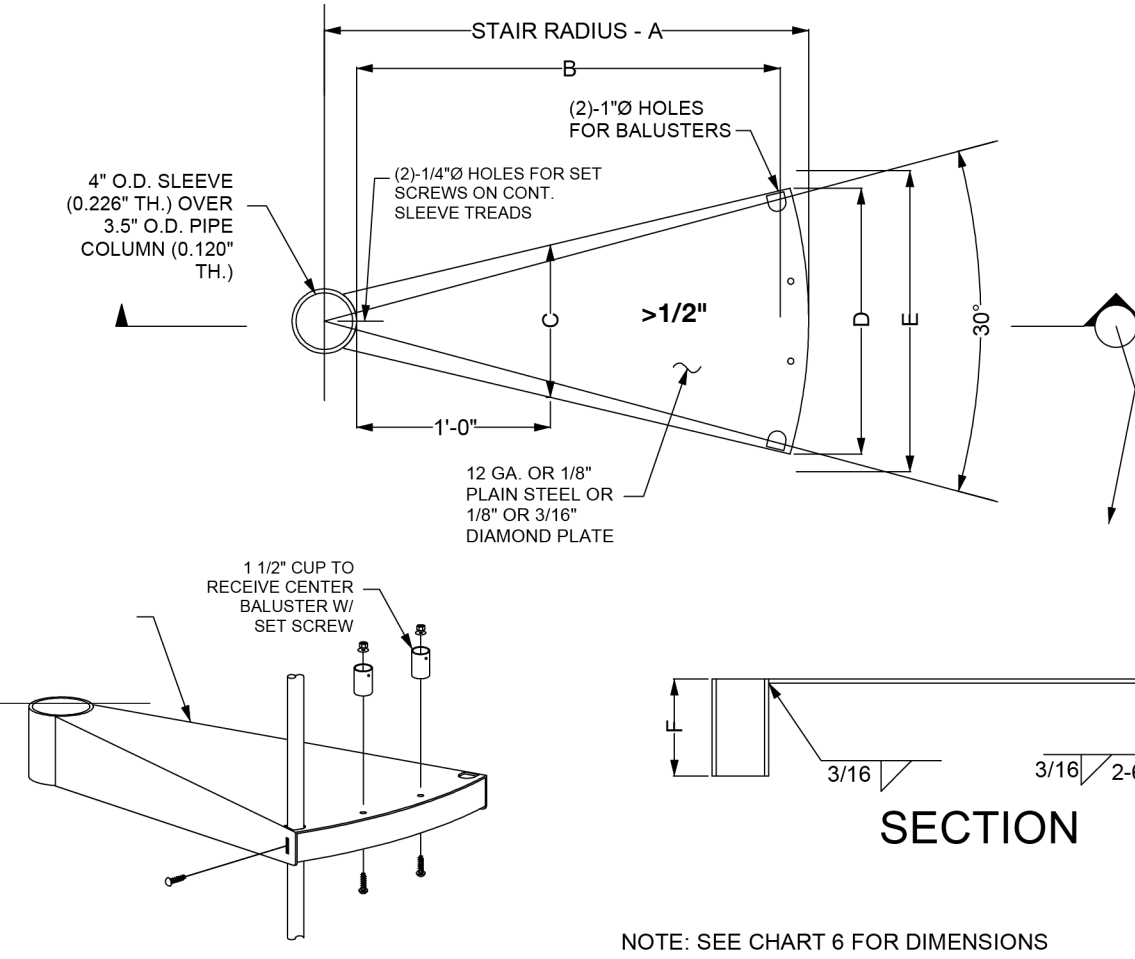


DROP PLATFORM

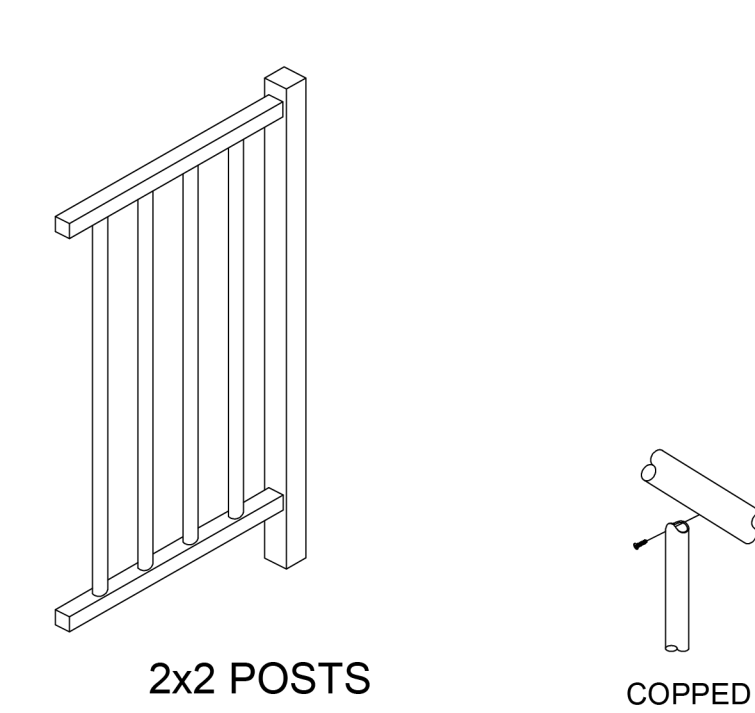
PLATFORM SECTION



TREAD PROFILE

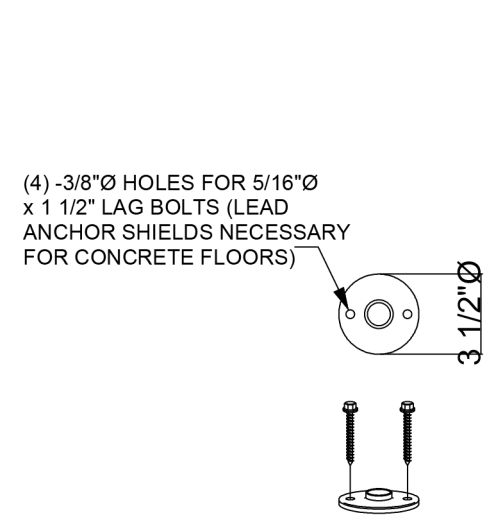


TREAD END PLAN

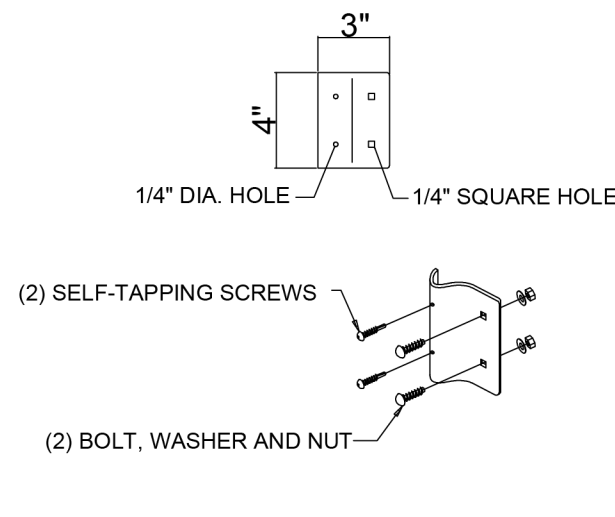


RAILING

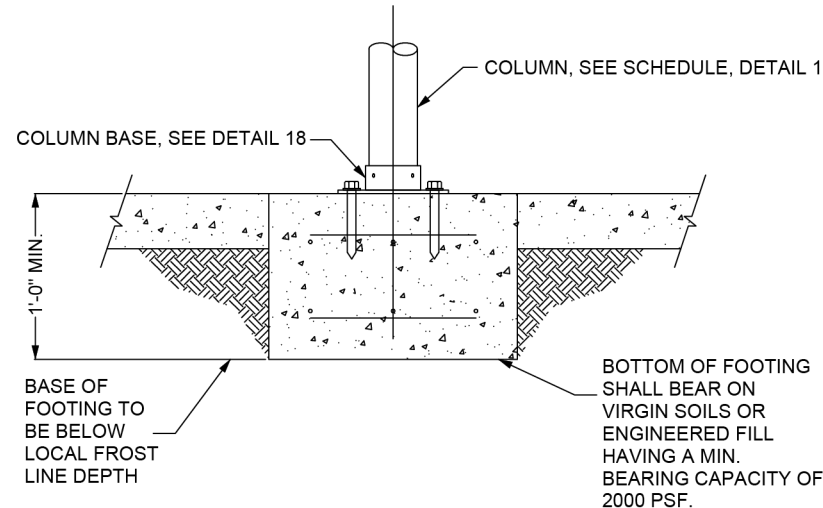
BALUSTER TIP



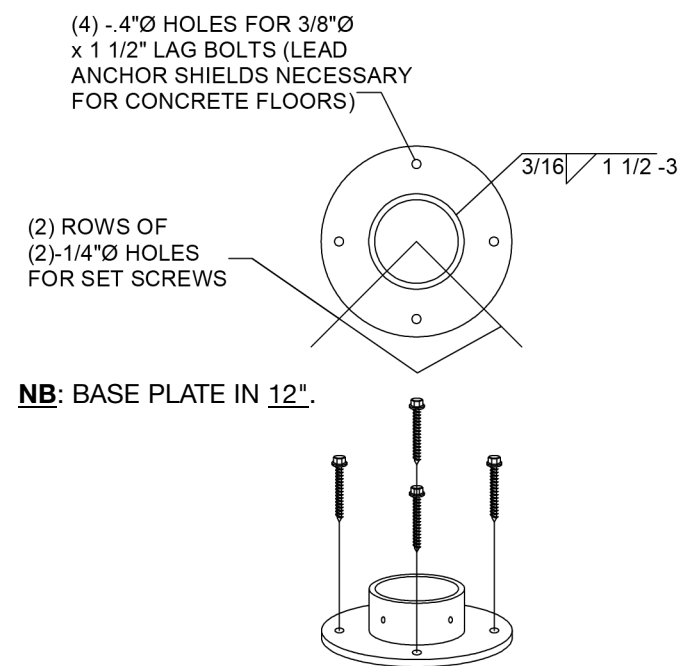
BALUSTER BASE PLATE



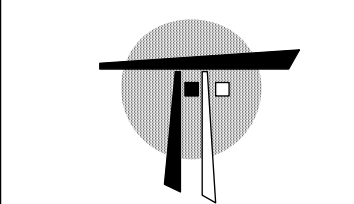
TOP BALUSTER BRACKET



FOUNDATION COLUMN BASE



POST BASE PLATE



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REVISION:

- 50% CD set: 12/20/19.
- 90% CD set: 04/20/20.
- 100% CD set: 07/06/20.
- BID ISSUE: 07/22/20.
- DOB ISSUE: 01/20/21.

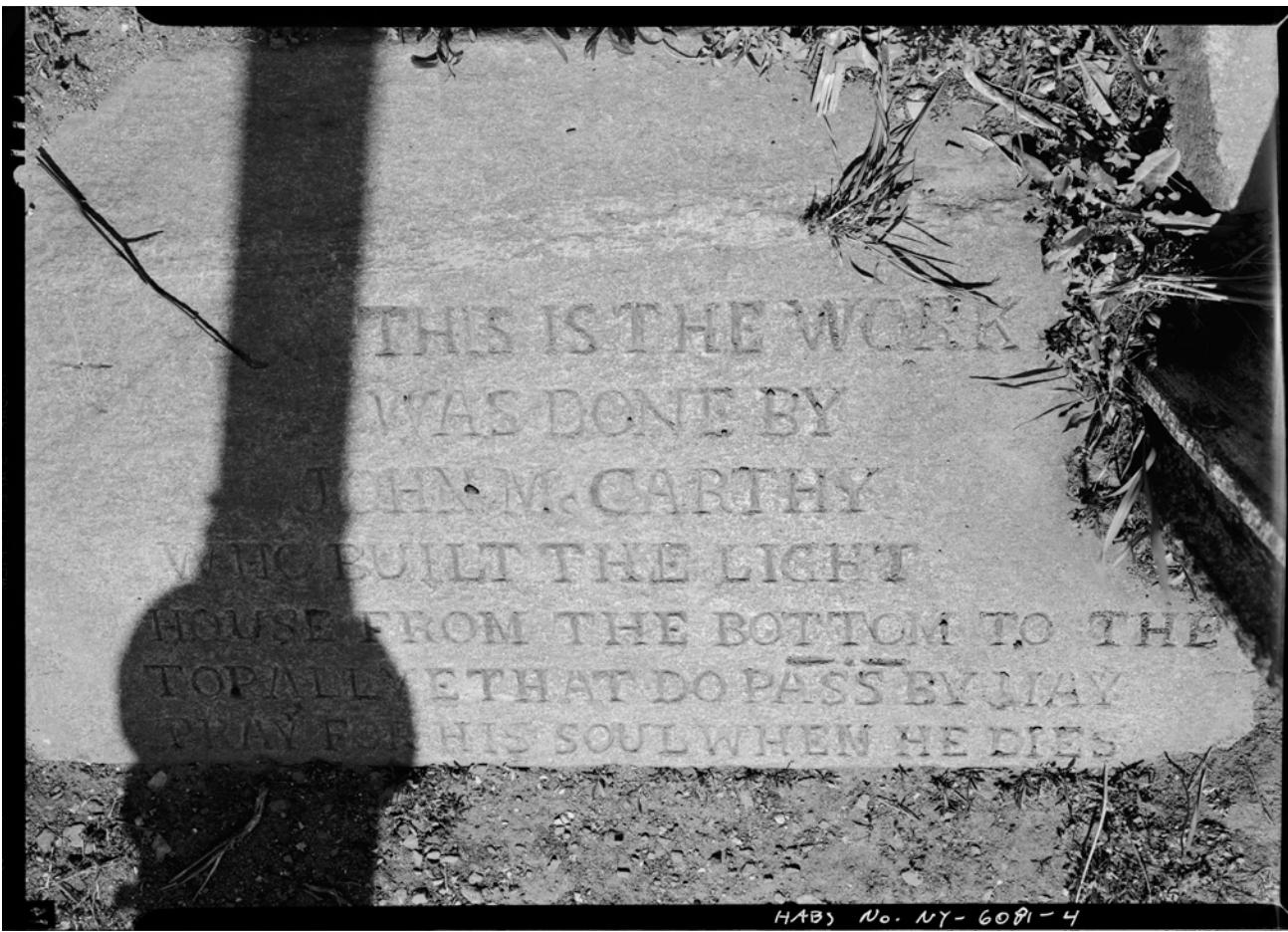
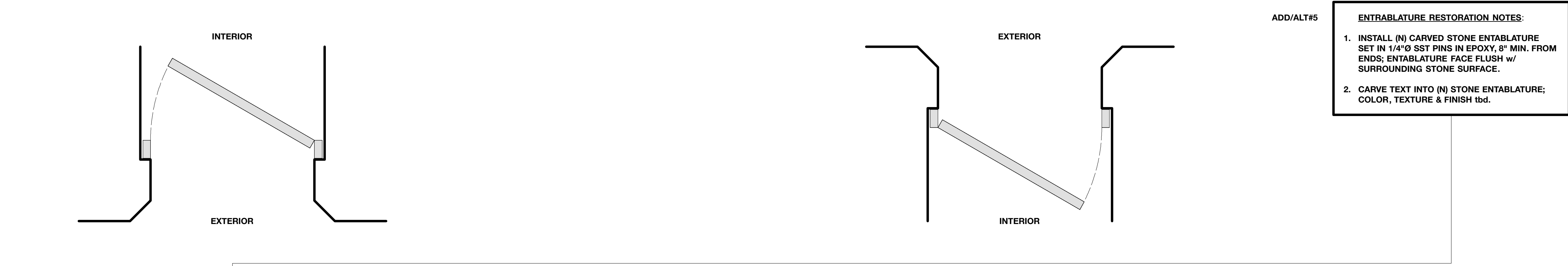
RENNICK LIGHTHOUSE, Lighthouse Park,
Roosevelt Island, NY 10044
RESTORATION, MODIFICATIONS
& SITE IMPROVEMENTS

TITLE:

STAIR
DETAILS

DATE: 4/23/18 PROJECT #: 44701
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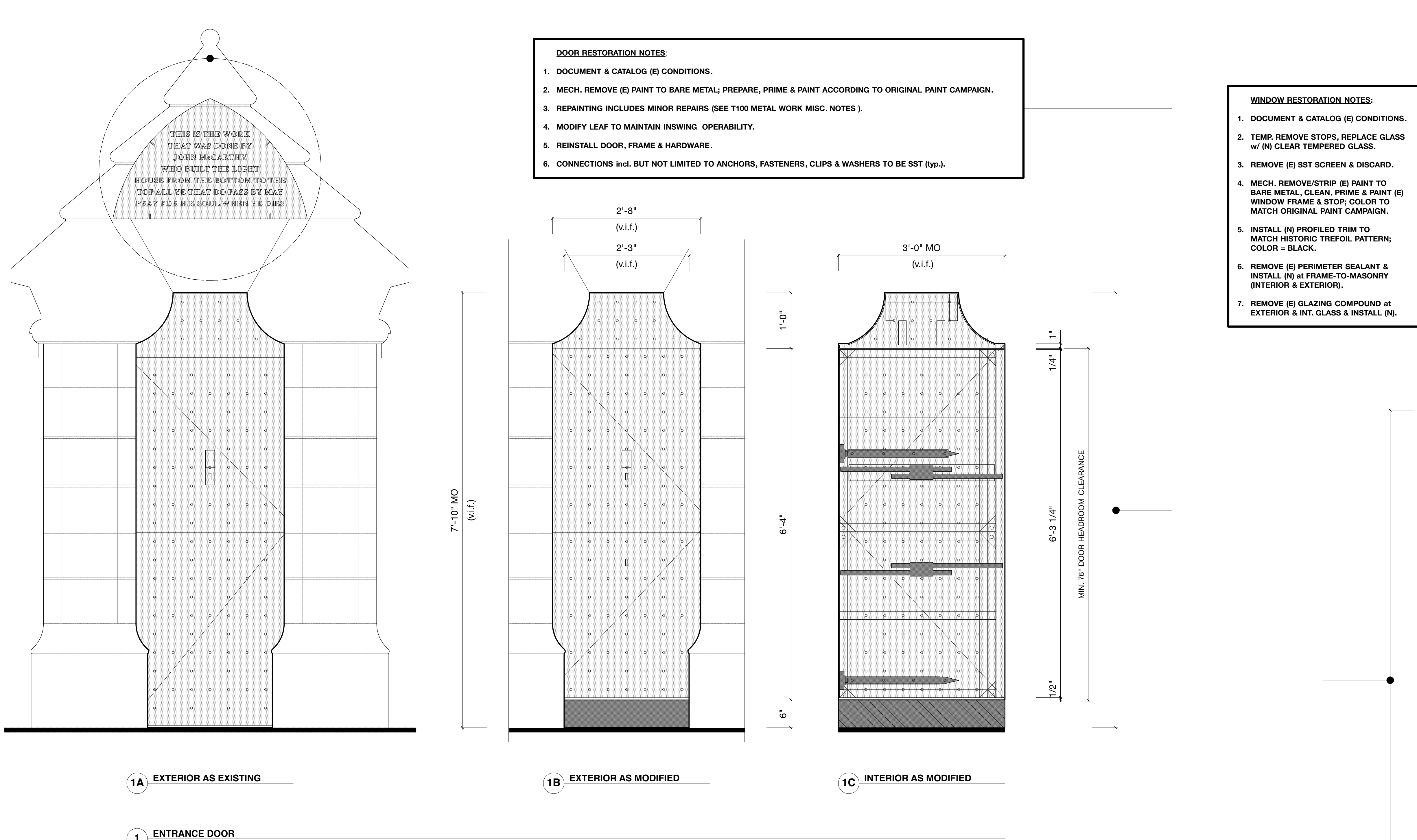
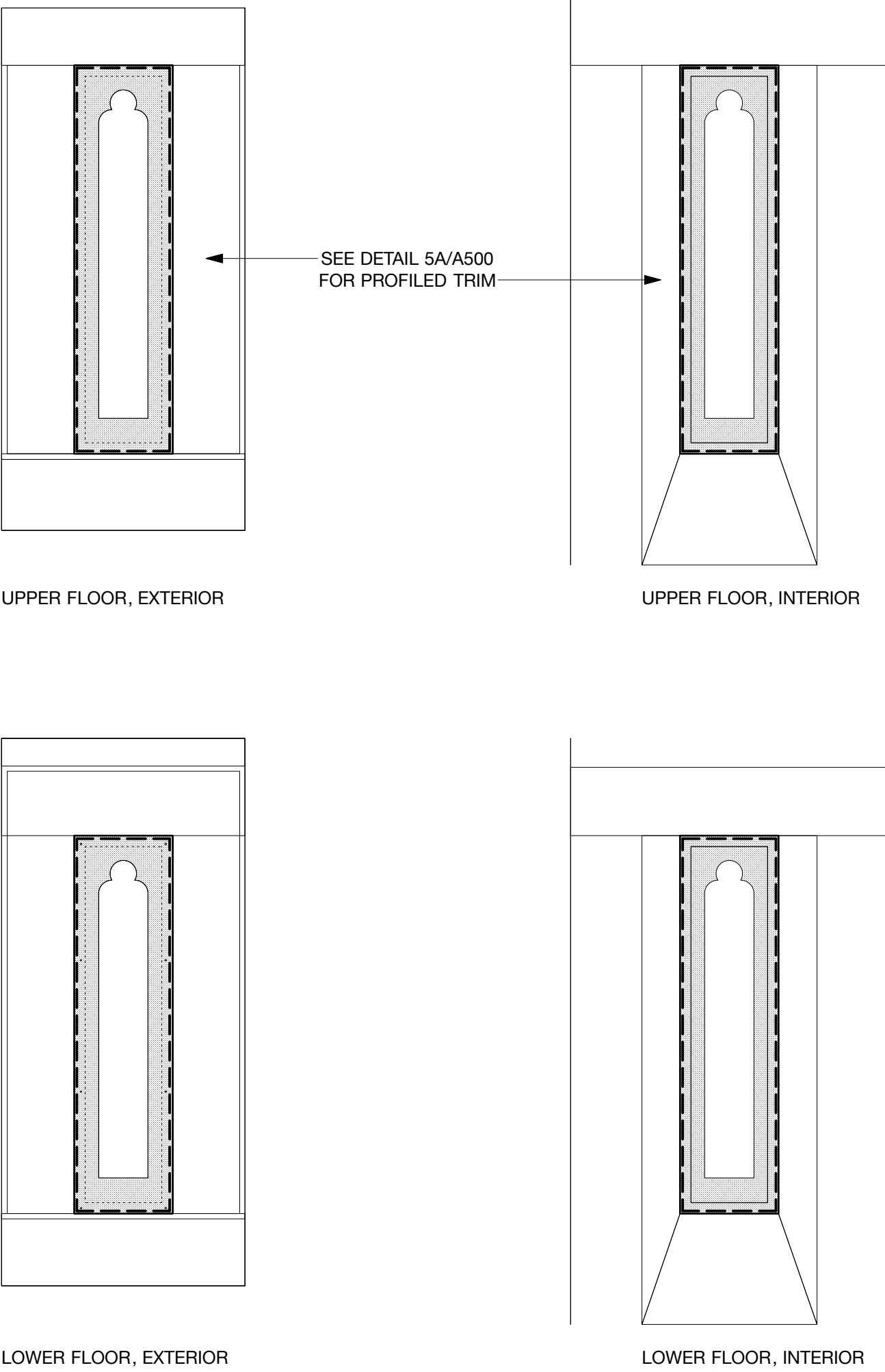
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PAGE NUMBER: 11 of 12
NYC DOB NUMBER: M00449536



A HISTORIC PHOTOGRAPH (DATE UNKNOWN) - STONE INSCRIPTION
Scale: NTS



B HISTORIC PHOTOGRAPH ca 1909 - WINDOW TREATMENT/SURROUND
Scale: NTS



ITEMS OF SPECIAL INSPECTIONS

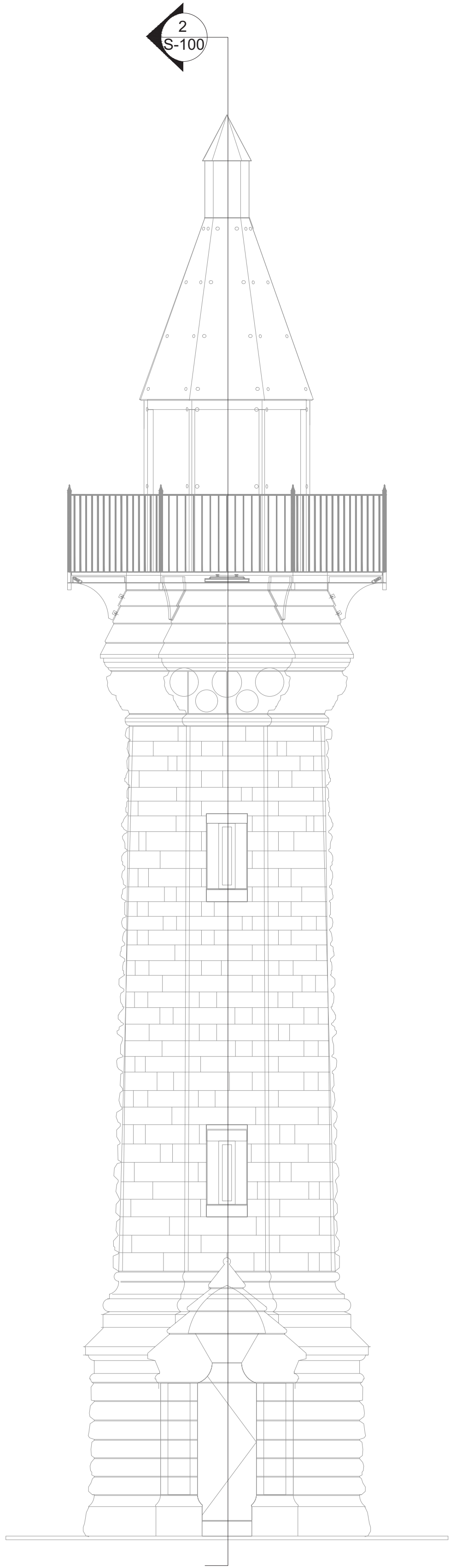
- 1. STRUCTURAL STEEL - DETAILS
- 2. CONCRETE - CAST-IN-PLACE
- 3. MASONRY
- 4. SUBGRADE INSPECTIONS
- 5. POST INSTALLED ANCHORS
- 6. STRUCTURAL STABILITY

ITEMS OF PROGRESS INSPECTIONS

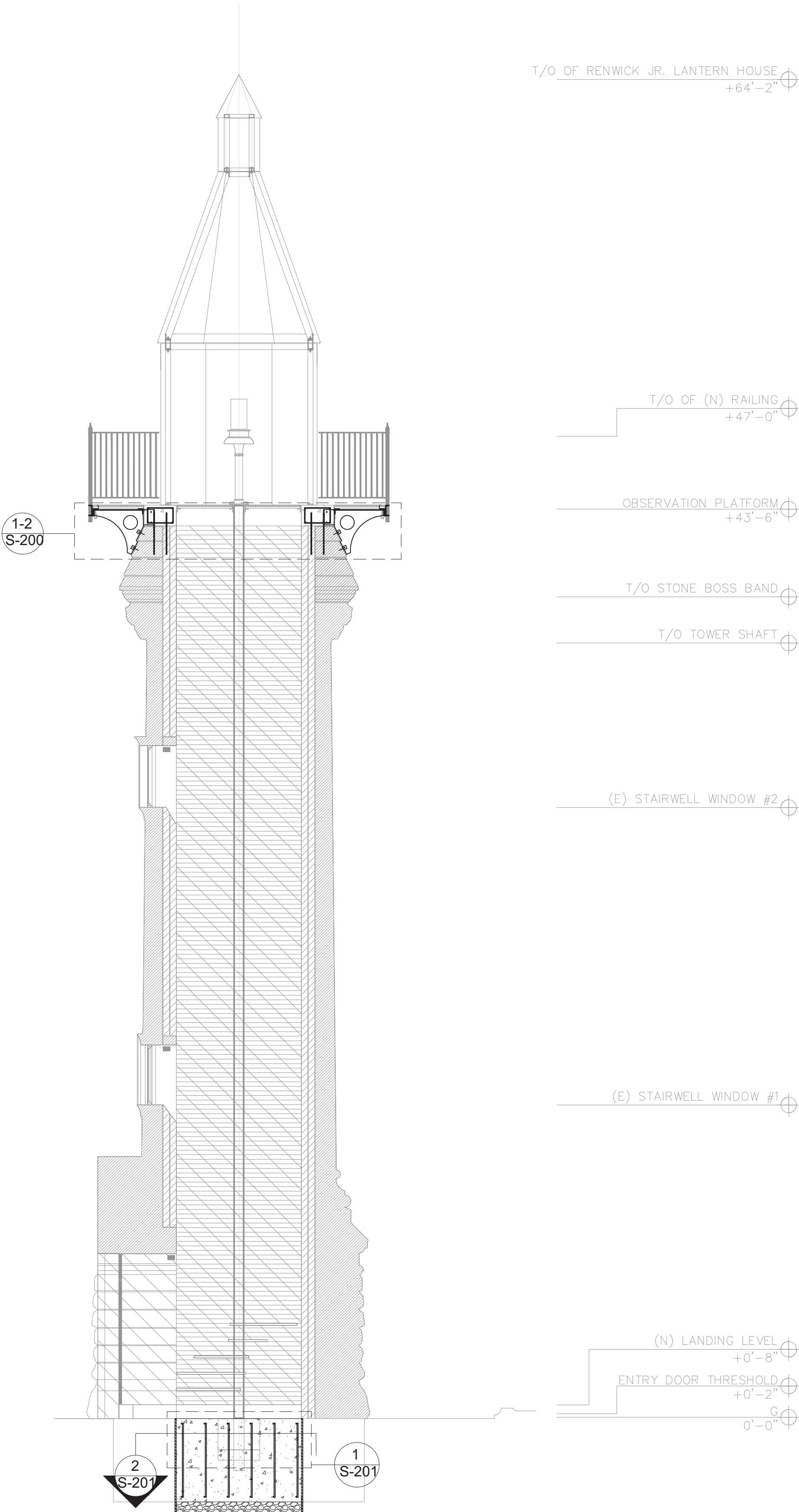
- 1. FOOTINGS AND FOUNDATIONS

IN ACCORDANCE WITH NYC BUILDING CODE SECTION 1704.1 AND BUILDINGS BULLETIN 2009-026, THE WORK MEETS THE CRITERIA OF SECTION BC 1704.4 AND I HEREBY ELECT TO WAIVE THE REQUIREMENTS OF CONCRETE TESTING AND OF THE TR2/TR3 FORM.

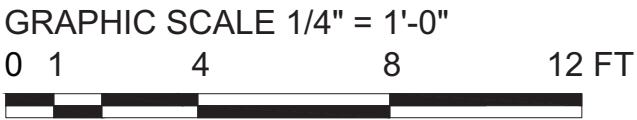
- 1. THE TOTAL STRUCTURAL CONCRETE SPECIFIED FOR THE PROJECT IS LESS THAN 50 CUBIC YARDS (38M³);
- 2. THE STRUCTURAL DESIGN OF THE CONCRETE IS BASED ON A SPECIFIED COMPRESSIVE STRENGTH, F 'C, NO GREATER THAN 2,500 POUNDS PER SQUARE INCH (PSI) (17.2 MPA), REGARDLESS OF THE COMPRESSIVE STRENGTH SPECIFIED IN THE CONSTRUCTION DOCUMENTS OR USED IN THE CONSTRUCTION; AND
- 3. THE CONCRETE TO BE PLACED IS SPECIFIED TO HAVE A COMPRESSIVE STRENGTH OF AT LEAST 4,000 PSI (28 MPA)



① Elevation-Base Scope of Work & Alt
Scale: 1/4"=1'-0"



② Section-Base Scope of Work & Alt
Scale: 1/4"=1'-0"



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NORFAST
ENGINEERING PLLC

21-37 23rd Street
Astoria, New York 11105
T | 718-545-5734
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REVISIONS:

Issue	Date

PROJECT

ROOSEVELT ISLAND
LIGHTHOUSE
NEW YORK, NY

DRAWING TITLE

ELEVATION & SECTION

DATE: 11/12/19

DRAWN BY: ADH

CHK BY: MDN

SHEET NUMBER:

DOB NOW JOB NO.: M00449571

DRAWING NO.

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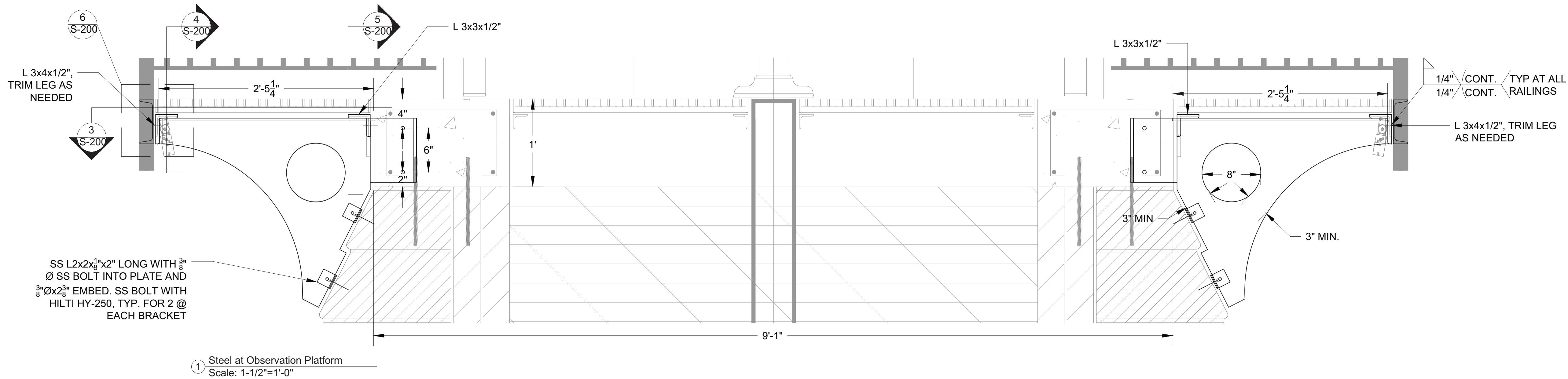
SHEET 01 of 07

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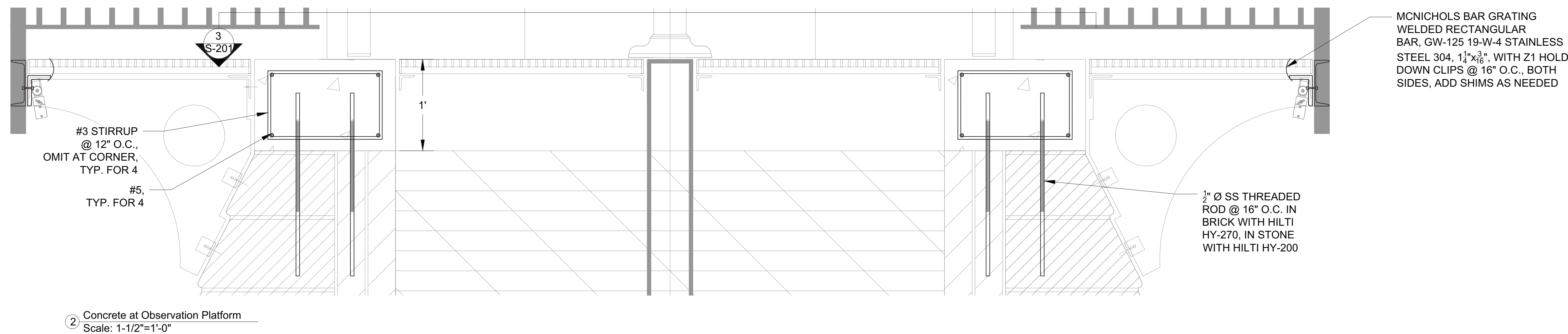


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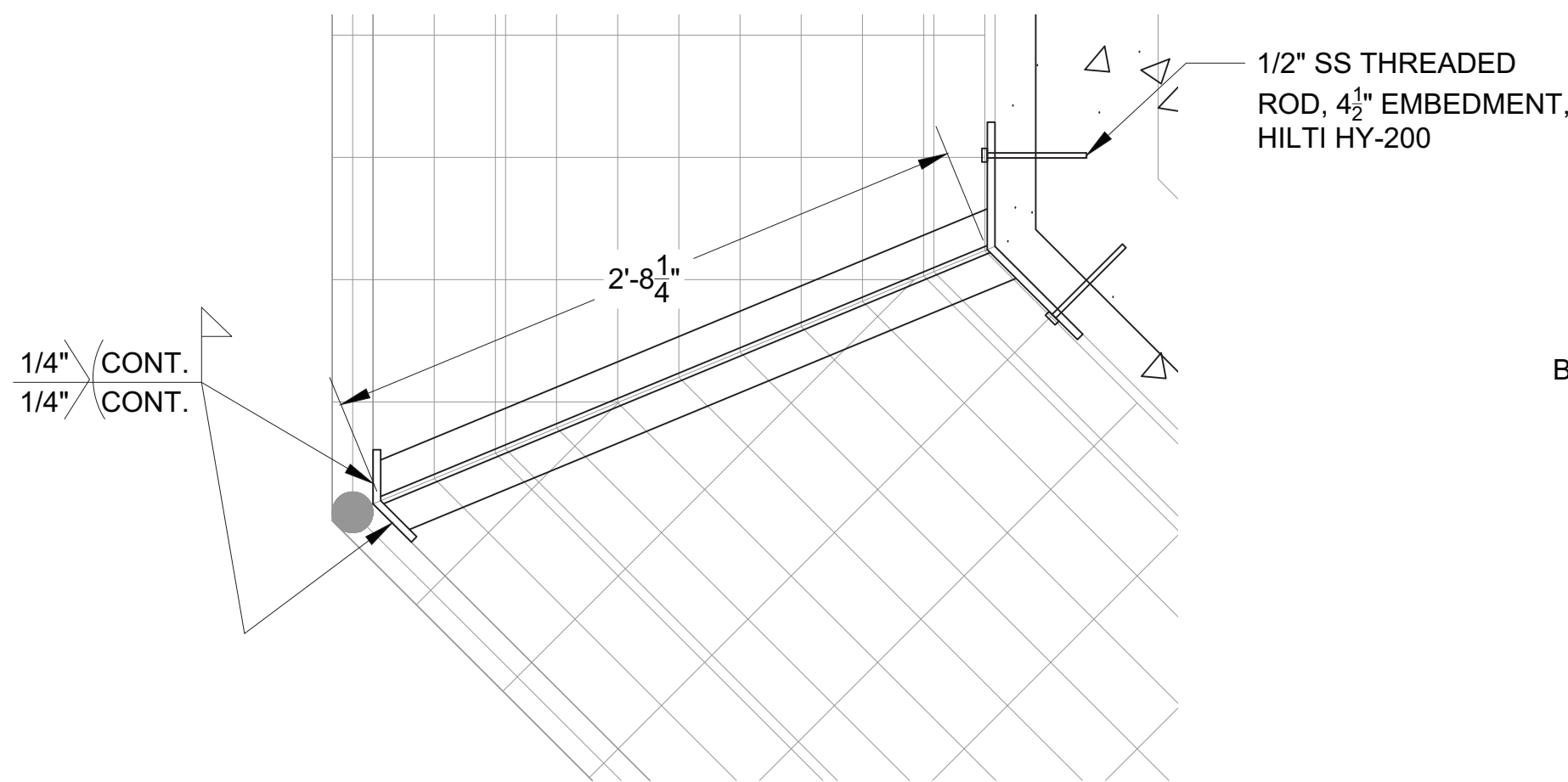
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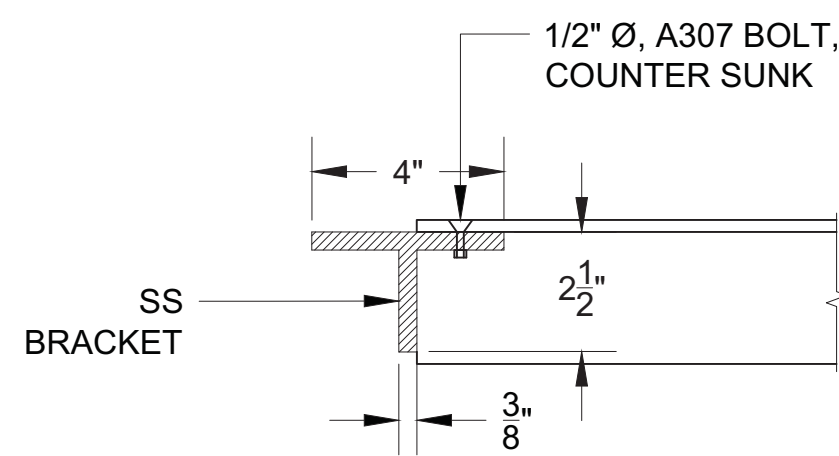
① Steel at Observation Platform
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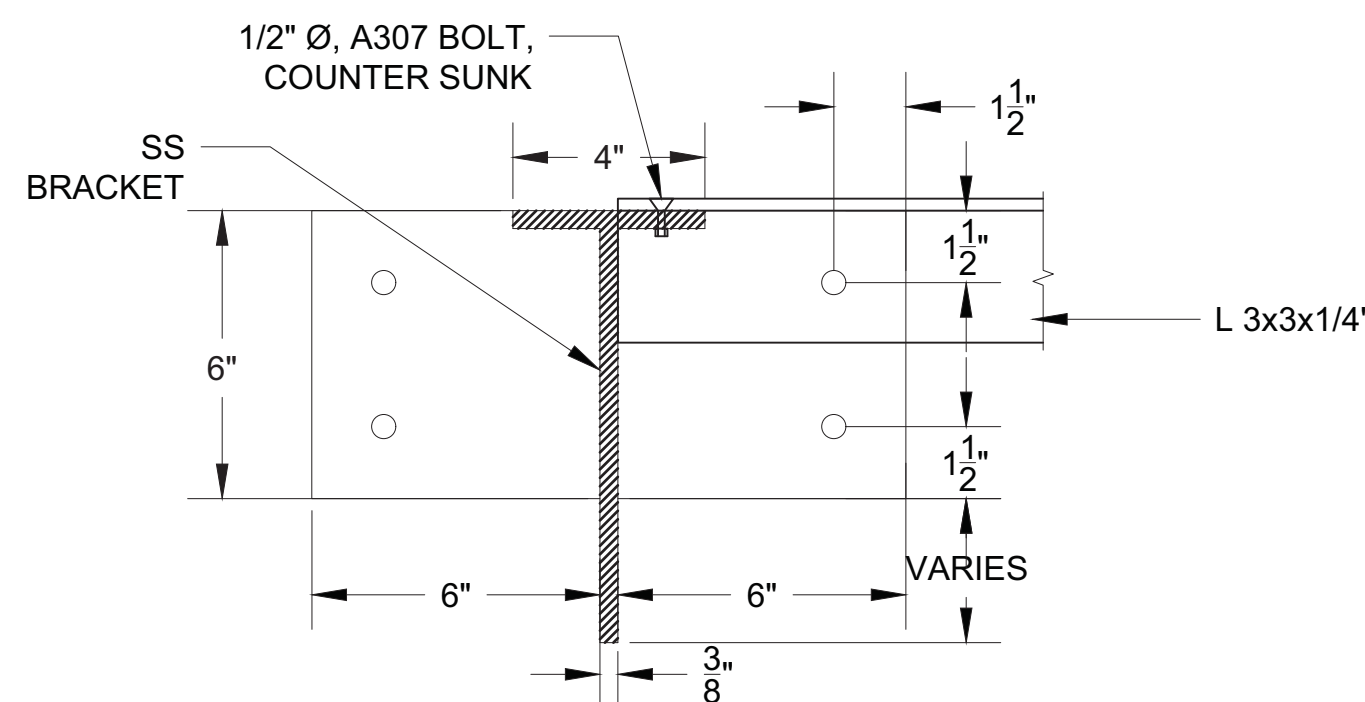
② Concrete at Observation Platform
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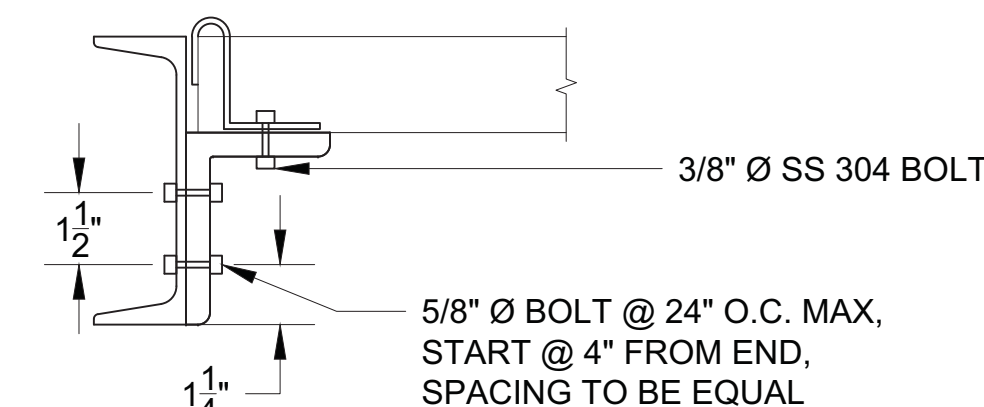
③ Observation Platform Bracket
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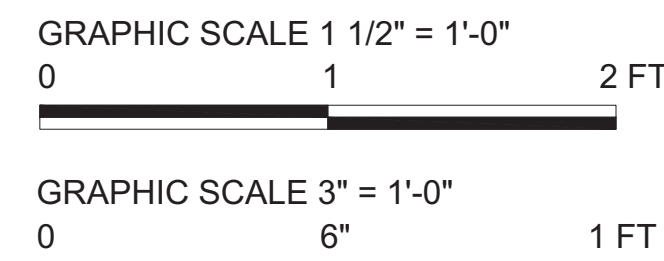
④ Observation Platform Bracket
Scale: 3"=1'-0"



⑤ Observation Platform Bracket
Scale: 3"=1'-0"



⑥ Channel at Observation Platform
Scale: 3"=1'-0"



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PROJECT

ROOSEVELT ISLAND
LIGHTHOUSE
NEW YORK, NY

DRAWING TITLE

STRUCTURAL DETAILS

DATE:

11/12/19

DRAWN BY:

ADH

CHK BY:

MDN

SHEET NUMBER:

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SHEET 02 of 07

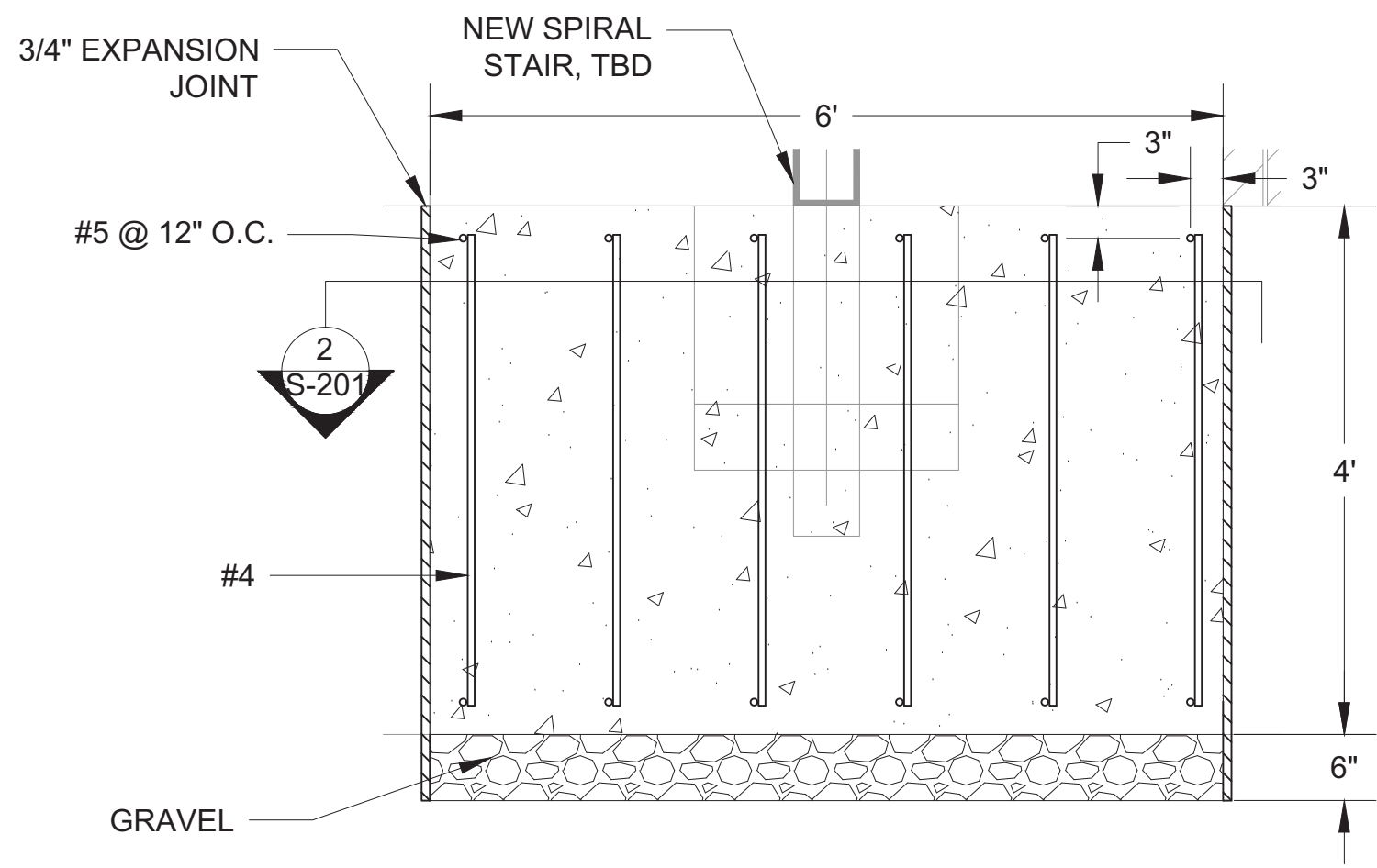
SEAL AND SIGNATURE:

STATE OF NEW YORK
MICHELLE DENISE DORR
071030
LICENSED PROFESSIONAL ENGINEER

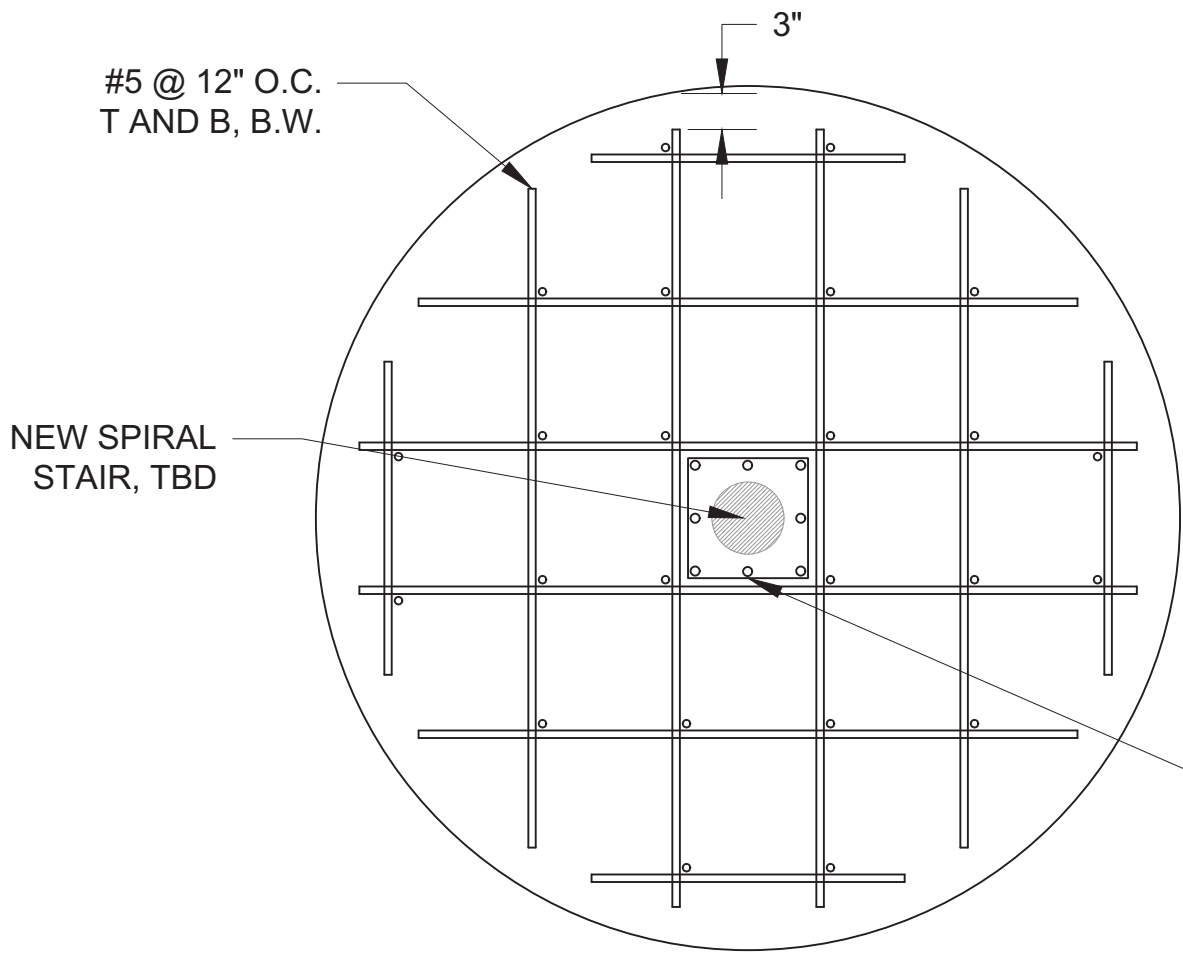
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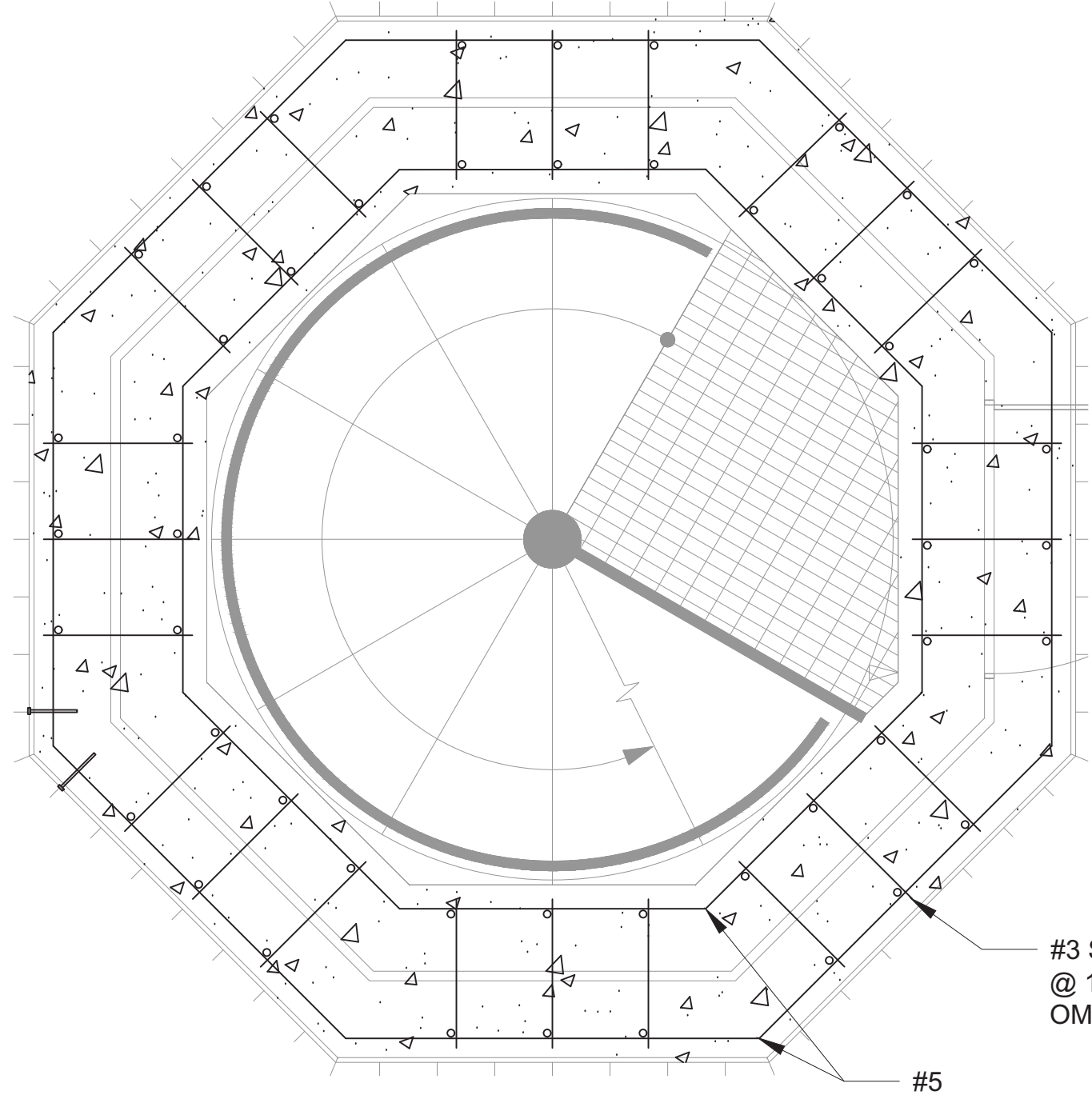


1 Footing
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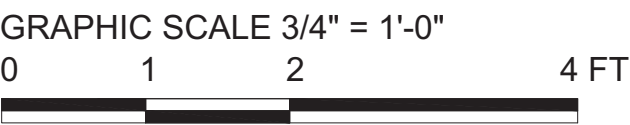
2 Footing Plan
Scale: 3/4"=1'-0"

BASE PLATE TO BE SPECIFIED WITH SPIRAL STAIR. 8EA SS 3/4" Ø x 6" EMBEDMENT WITH HILTI HY-200



3 Rebar Plan at Observation Platform
Scale: 3/4"=1'-0"

#3 STIRRUP @ 12" O.C., OMIT AT CORNERS



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NEW YORK, NY

DRAWING TITLE

STRUCTURAL DETAILS

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DRAWING NO.

S-201.00

SHEET 03 of 07

SEAL AND SIGNATURE:



DOB BSCAN:

DOB STAMP AND SIGNATURE:

STRUCTURAL NOTES

1. GENERAL

1.1. THE DESIGN IS IN ACCORDANCE WITH THE REQUIREMENTS OF THE NEW YORK CITY BUILDING CODE OF 1968, LOCAL LAW NO. 76, INCLUDING AMENDMENTS TO JUNE 30, 2008.

1.2. CODES AND STANDARDS: ALL WORK SHALL CONFORM TO THE REQUIREMENTS OF THE BUILDING CODE OF THE CITY OF NEW YORK, LATEST EDITION, WITH THE SPECIFICATIONS AND WITH THE REGULATIONS OF ALL GOVERNMENTAL AGENCIES HAVING JURISDICTION.WHERE MORE STRINGENT, THE LATEST EDITION OF THE FOLLOWING CODES SHALL APPLY TO WORK:
1.2.1. AISC "SPECIFICATIONS FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS."
1.2.2. AISC "CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES," LATEST EDITION, EXCEPT THAT SECTIONS 6.7.8 AND 10 ONLY SHALL APPLY TO THE WORK.
1.2.3. "STRUCTURAL WELDING CODE - STEEL"; ANSI/AWS D1.1, BY THE AMERICAN WELDING SOCIETY.
1.2.4. BUILDING CODE REQUIREMENTS FOR WOOD - THE NEW YORK CITY BUILDING CODE 2008 - CHAPTER 23

1.3. ALL STRUCTURAL WORK SHALL BE COORDINATED WITH ARCHITECTURAL DRAWINGS AND SHALL CONFORM TO THE PROJECT SPECIFICATIONS, INCLUDING THE NEW YORK CITY BUILDING CODE AND ALL LOCAL, STATE AND FEDERAL REGULATIONS GOVERNING THE WORK.

1.4. THIS PROJECT HAS BEEN DESIGNED FOR THE WEIGHTS OF MATERIALS INDICATED IN THE DESIGN DATA. IT IS THE CONTRACTORS RESPONSIBILITY TO DETERMINE ALLOWABLE CONSTRUCTION LOADS AND TO PROVIDE PROPER DESIGN AND CONSTRUCTION OF FALSEWORK, FORMWORK, STAGING, BRACING, SHEETING, SHORING, ETC. CONTRACTOR SHALL SUBMIT DEMOLITION PLAN FOR APPROVAL BY ENGINEER PRIOR TO BEGINNING WORK.

1.5. PRIOR TO CONSTRUCTION, CONTRACTOR SHALL VERIFY ALL STRUCTURAL ELEVATIONS AND DIMENSIONS WITH EXISTING CONDITIONS AND WITH OTHER PROJECT DRAWINGS, COORDINATE LOCATIONS OF SLEEVES AND OPENINGS THROUGH THE STRUCTURE, SLAB DEPRESSIONS, FLOOR DRAINS, INSERTS AND OTHER RELATED ITEMS. IN CASE OF CONFLICT BETWEEN THE STRUCTURAL DRAWINGS AND OTHER PORTIONS OF THE CONTRACT DOCUMENTS, THE CONTRACTOR SHALL MAKE ALLOWANCE IN HIS BID FOR THE MOST STRINGENT CONDITIONS. CONFLICTS BETWEEN THE STRUCTURAL DRAWINGS AND THE CONTRACT REQUIREMENTS FOR OTHER TRADES SHALL NOT BE A REASON FOR ANY EXTRA COST OR DELAY IN THE EXECUTION OF WORK.

1.6. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE THE STRUCTURAL WORK WITH THE ARCHITECTURAL DRAWINGS.

1.7. IN THE CASE OF CONFLICT BETWEEN THE NOTES, DRAWINGS AND SPECIFICATIONS, THE MOST RIGID REQUIREMENT SHALL GOVERN.

1.8. ALL DIMENSIONS INDICATED ON THE DRAWINGS ARE BASED UPON AVAILABLE INFORMATION, AND SHALL NOT BE USED FOR ORDERING OR FABRICATING MATERIALS. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS IN THE FIELD PRIOR TO ORDERING OF FABRICATING MATERIAL.

1.9. VERIFY ALL FIELD DIMENSIONS BY MEASUREMENT AT THE JOB SITE BEFORE SUBMITTING SHOP DRAWINGS.

1.10. DIMENSIONS AND ELEVATIONS OF EXISTING CONSTRUCTION GIVEN IN THESE DRAWINGS ARE BASED ON INFORMATION CONTAINED IN VARIOUS ORIGINAL DESIGN AND CONSTRUCTION DOCUMENTS AND LIMITED FIELD OBSERVATIONS AND MEASUREMENTS. THE CONTRACTOR SHALL VERIFY ALL INFORMATION PERTAINING TO EXISTING CONDITIONS BY ACTUAL MEASUREMENT AND OBSERVATION AT THE SITE. ALL DISCREPANCIES BETWEEN ACTUAL CONDITIONS AND THOSE SHOWN IN THE CONTRACT DOCUMENTS SHALL BE REPORTED TO THE ENGINEER OF RECORD FOR HIS EVALUATION BEFORE THE AFFECTED CONSTRUCTION IS PUT IN PLACE. IN ADDITION, ANY AND ALL STRUCTURAL ELEMENTS EXPOSED DURING CONSTRUCTION SHALL BE OBSERVED IN THE FIELD BY THE ENGINEER OF RECORD TO VERIFY THE CONDITION AND INTEGRITY OF THE EXISTING STRUCTURE.

1.11. THE CONTRACTOR'S ENGINEER SHALL FAMILIARIZE HIMSELF WITH ALL SITE CONDITIONS INCLUDING THE ROOF CONDITIONS PRIOR TO THE START OF SCAFFOLD ERECTION AND CONSTRUCTION. THE CONTRACTOR'S ENGINEER SHALL REVIEW THE CAPACITY OF THE EXISTING STRUCTURE, PARTICULARLY AREAS AT THE ROOFS TO BE USED FOR STORAGE AND STAGING.

1.12. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR THE CORRECTNESS OF DIMENSIONS OR QUANTITIES AND FOR FITTING TO OTHER WORK; FOR WORK TO BE CONFIRMED AND CORRELATED AT THE SITE; FOR INFORMATION PERTAINING TO THE FABRICATION PROCEDURE AND TO HAVE CONTROL OVER MEANS, METHODS TECHNIQUES, SEQUENCES AND PROCEDURES AND FOR THE COORDINATION OF THE STRUCTURAL WORK WITH OTHER TRADES.

1.13. THE CONTRACTOR SHALL BE RESPONSIBLE FOR INITIATING, MAINTAINING AND SUPERVISING ALL SAFETY PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THIS WORK. THE VERIFICATION OF THE PHYSICAL INTERRELATIONSHIPS OF THE ELEMENTS OF THE WORK FROM THE PLANS AND SPECIFICATIONS AND IN THE FIELD IS THE CONTRACTORS SOLE RESPONSIBILITY. REVIEW OF THE CONTRACTOR'S SUBMISSIONS DOES NOT RELIEVE THE CONTRACTOR OF THIS RESPONSIBILITY. EXISTING BEAMS TO BE PROPERLY SHORED PRIOR TO DEMOLITION.

1.14. ENGINEER TO INSPECT INSTALLATION PRIOR TO REMOVAL OF SHORING.

1.15. CONTRACTOR SHALL PROVIDE 48 HOUR NOTICE FOR INSPECTION.

1.16. CONTRACTOR SHALL NOTIFY ENGINEER OF THE FOLLOWING ACTIVITIES, 48 HOURS PRIOR TO THEIR COMMENCEMENT.
1.16.1. INSTALLATION OF SHORING.
1.16.2. START OF DEMOLITION.
1.16.3. INSTALLATION OF NEW STRUCTURAL COMPONENTS.
1.16.4. LOAD TRANSFER OPERATIONS.
1.16.5. REMOVAL OF SHORING.

1.17. AN APPROPRIATE SEPARATION MUST BE PROVIDED AT THE JUNCTURE OF ALL DISSIMILAR METALS.

1.18. EXISTING BEAMS TO BE PROPERLY SHORED PRIOR TO DEMOLITION.

1.19. IT IS INTENDED THAT ALL MEMBERS BE FABRICATED AND ERECTED FREE OF SHOP OR FIELD SPLICES. IF FIELD CONDITIONS NECESSITATE THE NEED FOR FIELD SPLICING OF MEMBERS, SUBMIT SPLICE LOCATIONS FOR ENGINEER'S ACCEPTANCE. WHERE FIELD SPLICING IS ACCEPTED, SPLICES SHALL BE SHOWN IN THE SHOP DRAWINGS.

1.20. CONTRACTOR SHALL NOTIFY ENGINEER IMMEDIATELY IF FIELD CONDITIONS DO NOT SUBSTANTIALLY MATCH THESE DOCUMENTS.

2. STRUCTURAL STEEL

2.1. THE DESIGN OF STRUCTURAL STEEL IS IN ACCORDANCE WITH THE REQUIREMENTS OF AISC SPECIFICATION FOR THE DESIGN, FABRICATION, AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS, EFFECTIVE NOVEMBER 1, 1978, AND SUPPLEMENT NO. 1, EFFECTIVE MARCH 11, 1986, AS MODIFIED BY THE NEW YORK CITY BUILDING CODE (RS 10-5A). ALLOWABLE STRESSES CONFORM TO SECTION 1.5 AND THE COMPOSITE DESIGN SECTION 1.11.2.2 OF THE AISC SPECIFICATION.

2.2. FABRICATION AND ERECTION OF STRUCTURAL STEEL SHALL CONFORM TO THE REQUIREMENTS OF THE ABOVE AISC SPECIFICATION.

2.3. MATERIAL FOR STRUCTURAL STEEL SHAPES SHALL CONFORM TO ASTM A36 AND TUBE STEEL FOR ASTM A500, GRADE B, UNLESS OTHERWISE NOTED ON DRAWINGS OR SPECIFICATIONS.

2.4. MATERIAL ACCEPTANCE OF STRUCTURAL STEEL SHALL CONFORM TO THE CERTIFICATION AND INSPECTION REQUIREMENTS OF ARTICLE 7, CHAPTER 1 - SUBCHAPTER 1, AND TABLES 10-1 AND 10-2 OF THE BUILDING CODE.

2.5. BOLTED CONNECTIONS. ALL CONTACT SURFACES OF BOLTED CONNECTIONS, INCLUDING SURFACES ADJACENT TO THE BOLT HEAD AND NUT, SHALL BE FREE OF SCALE, OIL, PAINT, LAQUER, AND OTHER FOREIGN MATERIAL. BURRS THAT WOULD PREVENT SOLID SEATING OF THE CONNECTED PARTS IN SNUG, TIGHT CONDITION SHALL BE REMOVED. CONTACT SURFACES THAT ARE HOT-DIP GALVANIZED IN ACCORDANCE WITH ASTM A123 AND ROUGHENED BY MEANS OF HAND WIRE BRUSHING (POWER BRUSHING IS PROHIBITED) WILL BE PERMITTED.

2.6. UNLESS OTHERWISE NOTED:
2.6.1. ALL SHAPES AND PLATES SHALL CONFORM TO ASTM A588 (FY = 50 KSI).
2.6.2. ALL TUBING SHALL BE ASTM A500, GRADE B.
2.6.3. ALL PIPES SHALL BE ASTM A53, TYPE E OR S, GRADE B (FY = 36 KSI).

2.7. WELDED CONNECTIONS
2.7.1. WELDING OPERATIONS AND DESIGN SHALL BE IN ACCORDANCE WITH THE NEW YORK CITY BUILDING CODE INCLUDING:
2.7.1.1. RULES OF THE BOARD OF STANDARDS AND APPEALS RULES FOR WELDING.
2.7.1.2. AISC SPECIFICATION (RS 10-5A).
2.7.1.3. STRUCTURAL WELDING CODE, AWS D.1, AS MODIFIED BY AISC SPECIFICATION SECTION 1.17.1.
2.7.2. WELDING SALL BE PERFORMED BY LICENSED WELDERS. REFER TO SECTION 27-616 OF THE BULDING CODE.
2.7.3. AWS CLASS E70XX SERIES ELECTRODES SHALL BE USED FOR WELDING NEW STRUCTURAL STEEL. AWS CLASS E60XX SERIES ELECTRODES SHALL BE USED FOR WELDING NEW STRUCTURAL STEEL TO STEEL FOR EXISTING BUILDING (WHERE APPLICABLE).
2.7.4. ALL CONTACT SURFACES AND AREAS WITHIN TWO INCHES OF WELD DURING WELDING SHALL BE FREE OF SCALE, OIL, PAINT LACQUER, GALVANIZING, AND ANY OTHER FOREIGN MATERIAL.
2.7.5. BUTT WELDS SHALL BE 100% PENETRATION WELDS AND FILLET WELDS A MINIMUM OF 1/4" UNLESS OTHERWISE NOTED.

2.8. GALVANIZING. GALVANIZE ANGLES AND ALL OTHER MEMBERS SUPPORTING EXTERIOR MASONRY WHERE INDICATED ON THE DRAWINGS TO BE GALVANIZED.

2.9. ALL STEEL TO BE 50 KSI.

3. CONCRETE

3.1. UNLESS OTHERWISE NOTED:

3.1.1. ALL REINFORCING STEEL SHALL BE DEFORMED BARS CONFORMING TO ASTM A615, GRADE 60.
3.1.2. WELDED WIRE FABRIC SHALL CONFORM TO ASTM 185.

3.2. ALL CONCRETE MIXES SHALL CONFORM TO THE PROVISIONS FOR CONCRETE QUALITY CONTAINED IN CHAPTER 5, ACI 318. COMPRESSIVE STRENGTH, Fc' IS MEASURED AT 28 DAYS AGE, EXCEPT IF HIGH STRENGTH CEMENT IS USED, Fc' IS MEASURED AT 7 DAYS AGE.

3.3. ALL CONCRETE SHALL BE 4000 PSI.

3.4. REFER TO SIKAI23 FOR CONCRETE REPAIR SPECS.

4. CLEANING AND PAINTING

4.1. BASIC WORK SHALL BE DONE IN THE SHOP, WITH FIELD TOUCH-UP, ONLY, DONE IN THE FIELD.

4.2. STEEL SHALL BE SHOP CLEANED TO MEET THE REQUIREMENTS OF SSPC-SP3, "STEEL STRUCTURES PAINTING MANUAL."

4.3. COATING SYSTEM FOR NEW GALVANIZED LINTEL SHALL BE AS FOLLOWS:
4.3.1. SURFACE PREPARATION: SURFACE MUST BE CLEAN, DRY AND FREE OF OIL, GREASE, CHALK AND OTHER CONTAMINANTS. SAND GALVANIZED STEEL TO ROUGHEN SURFACE.
4.3.2. SHOP COAT: SERIES 165, DFT 6 TO 8 MILS.
4.3.3. SHOP INTERMEDIATE COAT: SERIES 29, DFT .75 TO 1 MILS.
4.3.4. SHOP FINISH COAT: SERIES 29, DFT .75 TO 1 MILS.
4.3.5. TOTAL DFT 7.5 TO 10 MILS.

4.4. PAINT SHALL BE APPLIED TO DRY SURFACES, ONLY AT TIMES WHEN STEEL SURFACE TEMPERATURES ARE ABOVE THE DEW POINT AND SHALL BE APPLIED THOROUGHLY AND EVENLY WITHOUT SAGS OR HOLIDAYS.

4.5. FIELD TOUCH-UP SHALL BE PROVIDED TO ALL COMPONENTS AT ALL POINTS OF DAMAGE, INCLUDING AREAS RECEIVING WELD AFTER COATING.

5. DEMOLITION

5.1. PROVIDE AND PLACE BRACING OR SHORING AS NEEDED. AT A MINIMUM, SHORE ALL EXISTING BEAMS AND SLABS IN SPANS CONTAINING AND ADJACENT TO CONCRETE AND STRUCTURAL STEEL REMOVAL OPERATIONS. TAKE NECESSARY PRECAUTIONS TO PROPERLY SUPPORT STRUCTURE-TO-REMAIN TO PREVENT DAMAGE OR UNACCEPTABLE DEFLECTION. KEEP ALL BRACING AND SHORING IN PLACE UNTIL STRUCTURE TO REMAIN IS FULLY SUPPORTED. CONTRACTOR SHALL PROVIDE SHORING PLAN PRIOR TO ANY DEMOLITION.

5.2. DO NOT ALLOW DEMOLISHED OR REMOVED MATERIALS TO DROP, FALL OR IMPACT AGAINST STRUCTURE-TO-REMAIN. PROTECT ALL STRUCTURE-TO-REMAIN FROM ANY DAMAGE OF ANY KIND.

5.3. REMOVE ALL DEMOLISHED MATERIAL PROMPTLY FROM SITE.

5.4. ALL ARCHITECTURAL FINISHES SHALL BE DOCUMENTED PRIOR TO SHORING/DEMOLITION OPERATIONS. CONTRACTOR SHALL BE RESPONSIBLE FOR DAMAGE TO FINISHES CAUSED BY CONSTRUCTION.

6. SUBMITTALS

6.1. SUBMIT SAMPLES, SHOP DRAWINGS OF ALL DETAILS, PRODUCT DATA, TEST REPORTS AND DATA, MANUFACTURER'S NAMES, CERTIFICATIONS AND PROCEDURES FOR ALL SPECIFIED ITEMS AS REQUESTED. SHOP DRAWINGS SHALL CONFORM TO THE BEST STANDARDS OF THE CONSTRUCTION INDUSTRY AND SHALL BE PREPARED BY AND UNDER THE SUPERVISION OF COMPETENT ENGINEERING PERSONNEL. NO WORK SHALL COMMENCE WITHOUT PRIOR APPROVAL OF ALL SUBMITTALS, HOP DRAWINGS, PRODUCT DATA, TEST REPORTS, AND DATA, MANUFACTURER'S NAMES, CERTIFICATIONS AND PROCEDURES FOR ALL SPECIFIED ITEMS AS REQUESTED.

6.2. STRUCTURAL STEEL:
6.2.1. SUBMIT ERECTION DRAWINGS, INDEX SHEETS, PIECE DRAWING FOR FABRICATED STEEL AND STEEL JOISTS, AND FIELD WORK DRAWINGS.
6.2.2. SUBMIT CERTIFIED COPIES OF MILL TEST REPORTS FOR ALL STEEL FURNISHED AND MANUFACTURER'S CERTIFICATION OF BOLTS, WASHERS AND FILLER MATERIAL FOR WELDING UPON REQUESTS.

6.3. SPECIAL INSPECTIONS: CONTRACTOR SHALL PROVIDE SPECIAL INSPECTIONS FOR THE INSTALLATION OF:
6.3.1. STRUCTURAL STEEL, WELDING (WELDS DESIGNED TO MEET OR EXCEED TWICE THE REQUIRED CAPACITY, CONTINUOUS INSPECTION NOT REQUIRED)
6.3.2. STRUCTURAL STEEL, DETAILS
6.3.3. STRUCTURAL COLD-FORMED STEEL
6.3.4. CONCRETE, CAST IN PLACE (TOTAL QUANTITY OF CONCRETE TO BE PLACED DOES NOT EXCEED 50 CY)
6.3.5. STRUCTURAL STABILITY AND INTEGRITY OF STRUCTURES DURING CONSTRUCTION
6.3.6. FINAL INSPECTION

6.4. ALL SPECIAL INSPECTIONS SHALL BE PERFORMED UNDER THE SUPERVISION OF A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF NEW YORK ENGAGED BY THE CONTRACTOR. REPORTS SHALL BE SUBMITTED TO THE OWNER AND ENGINEER FOR REVIEW.

6.5. ALL WORK AND MATERIALS SHALL BE IN ACCORDANCE WITH NEW YORK CITY CONSTRUCTION CODE AND BUILDING MANAGEMENT RULES AND REGULATIONS.

6.6. NO CHASING, CUTTING OR CHOPPING OF THE EXISTING STRUCTURAL CONCRETE, MASONRY PERIMETER, CORE AND DEMISING WALLS IS PERMITTED.

6.7. CONSTRUCTION PERSONNEL ARE NOT TO UTILIZE THE PASSENGER ELEVATORS FOR ACCESS OF ANY KIND ONTO THE CONSTRUCTION FLOOR OR TO ACCESS THE LOBBY. ACCESS SHALL BE GAINED VIA THE FREIGHT ELEVATOR WITH PRIOR COORDINATION AND SCHEDULING WITH BUILDING PERSONNEL.

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ENGINEERING PLLC

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Astoria, New York 11105
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REVISIONS:

Issue	Date

PROJECT

ROOSEVELT ISLAND
LIGHTHOUSE
NEW YORK, NY

DRAWING TITLE

STRUCTURAL NOTES

DATE:	6/24/20
DRAWN BY:	LIM
CHK BY:	MDN
SHEET NUMBER:	
DOB NOW JOB NO.:	M00449571
DRAWING NO.	S-202.00

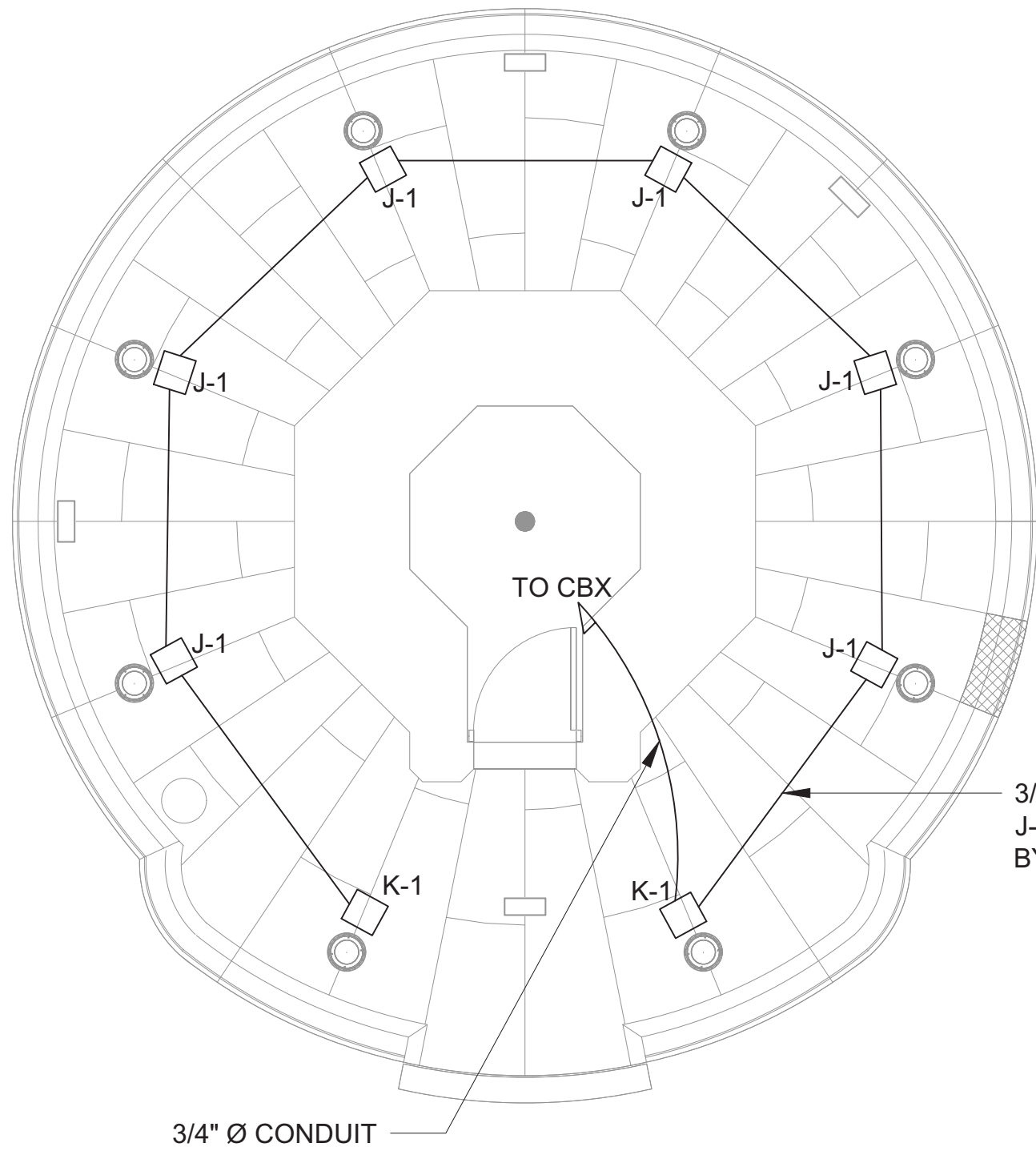
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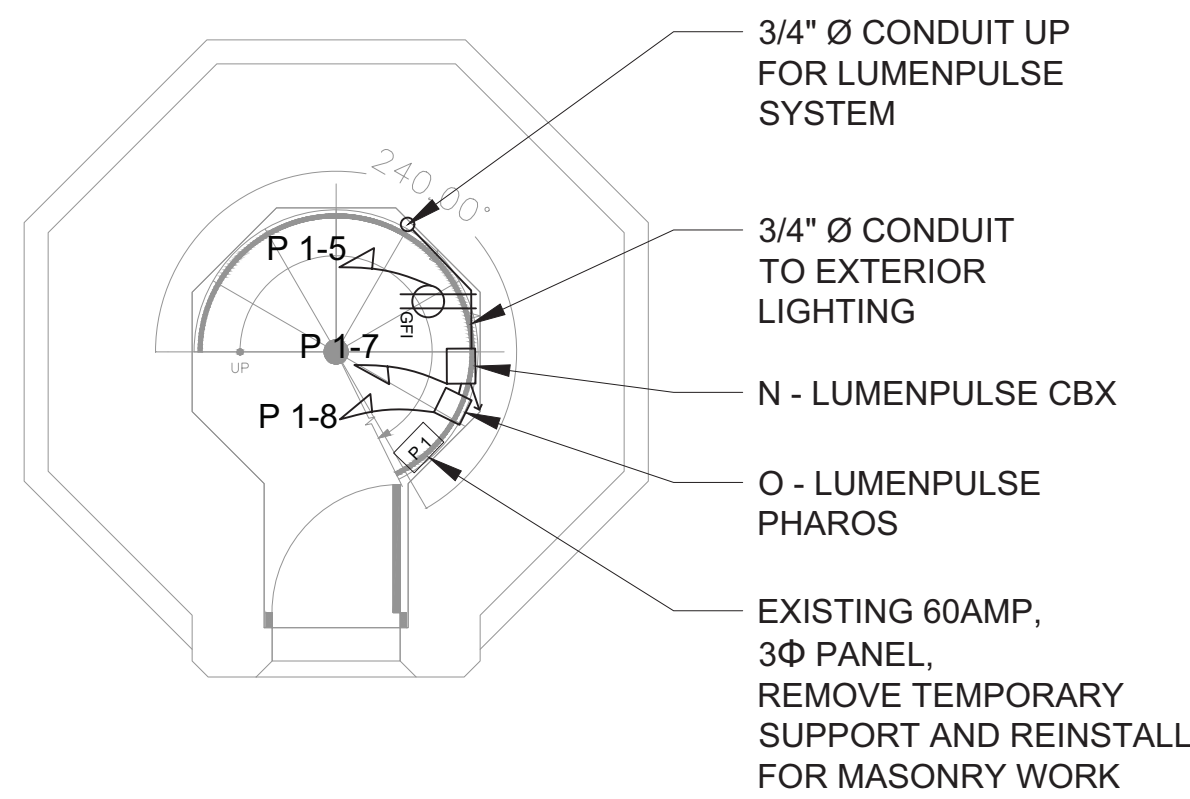


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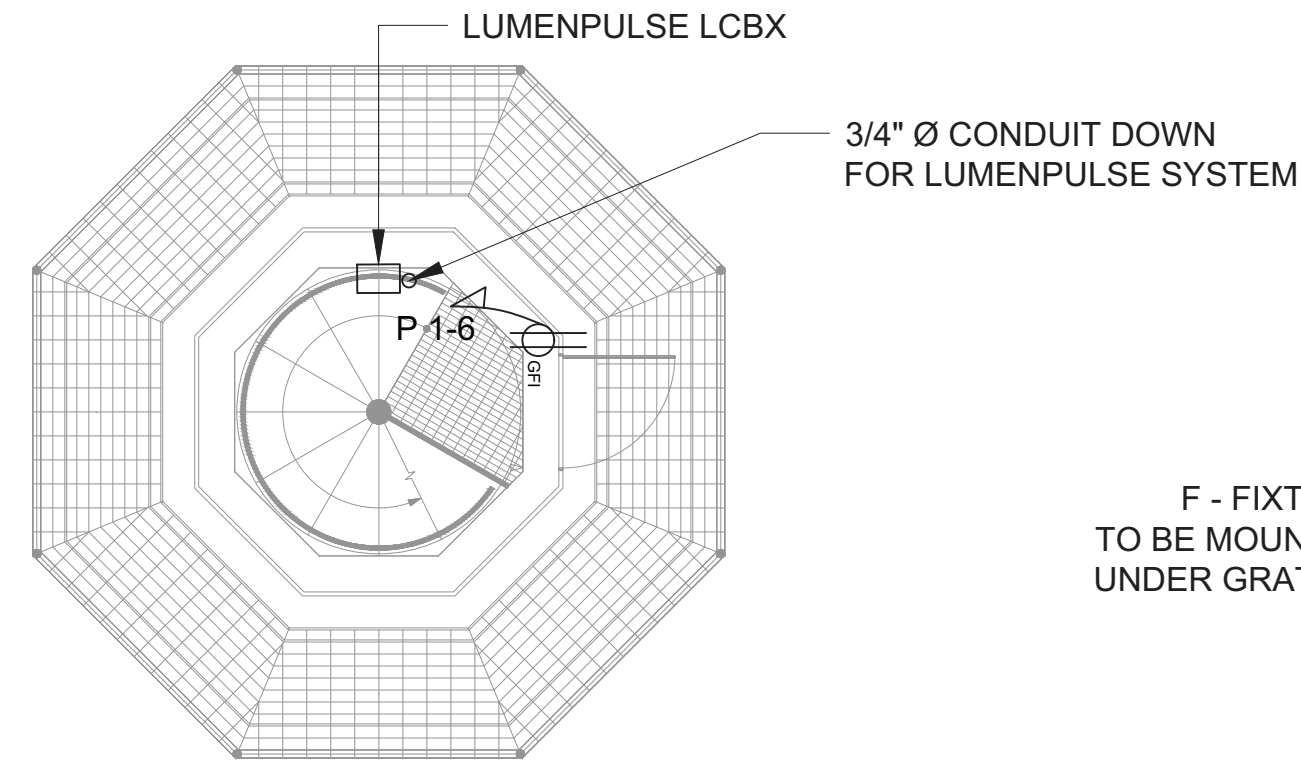
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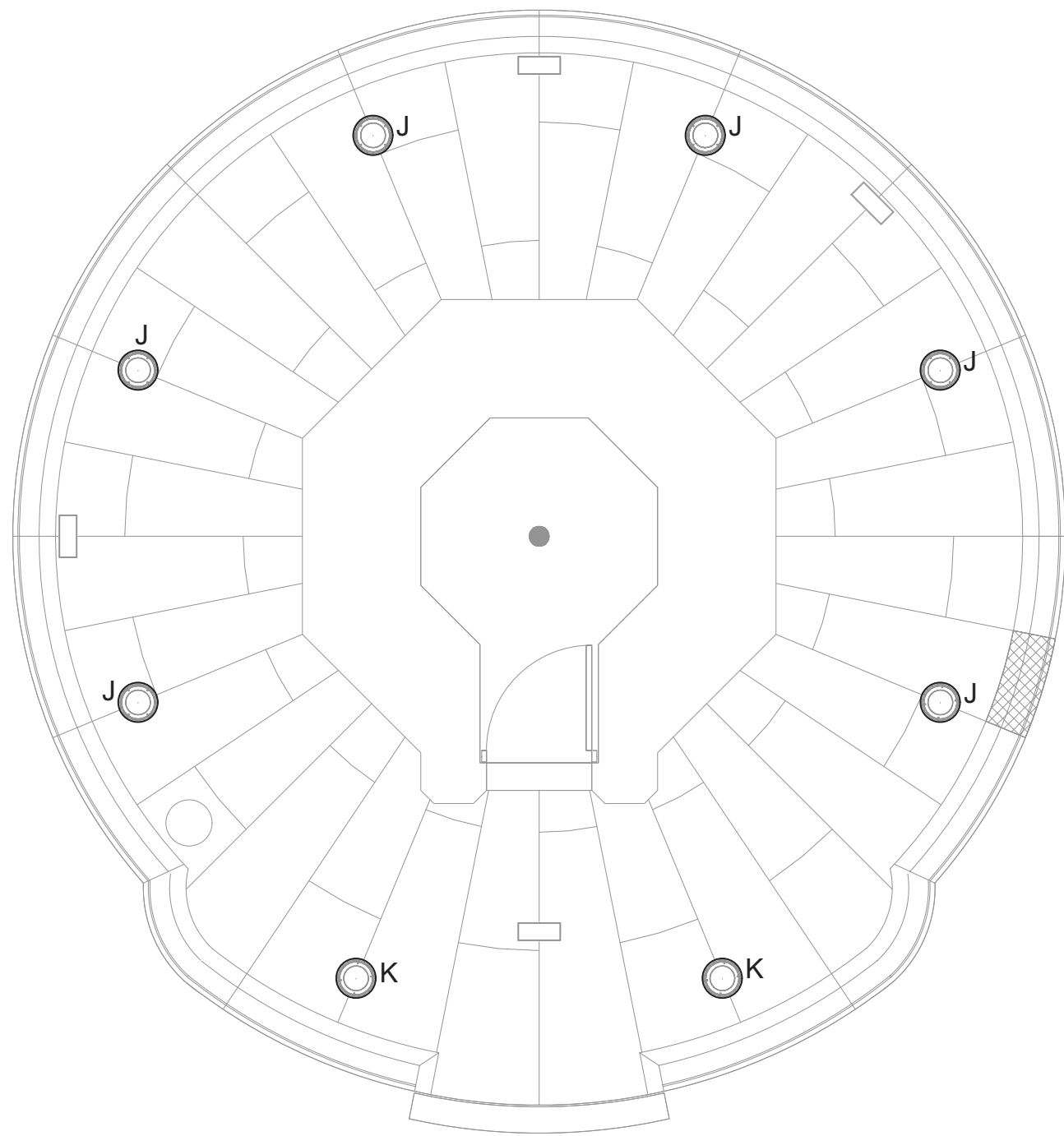
1 Site Electrical Plan
Scale: 1/4"=1'-0"



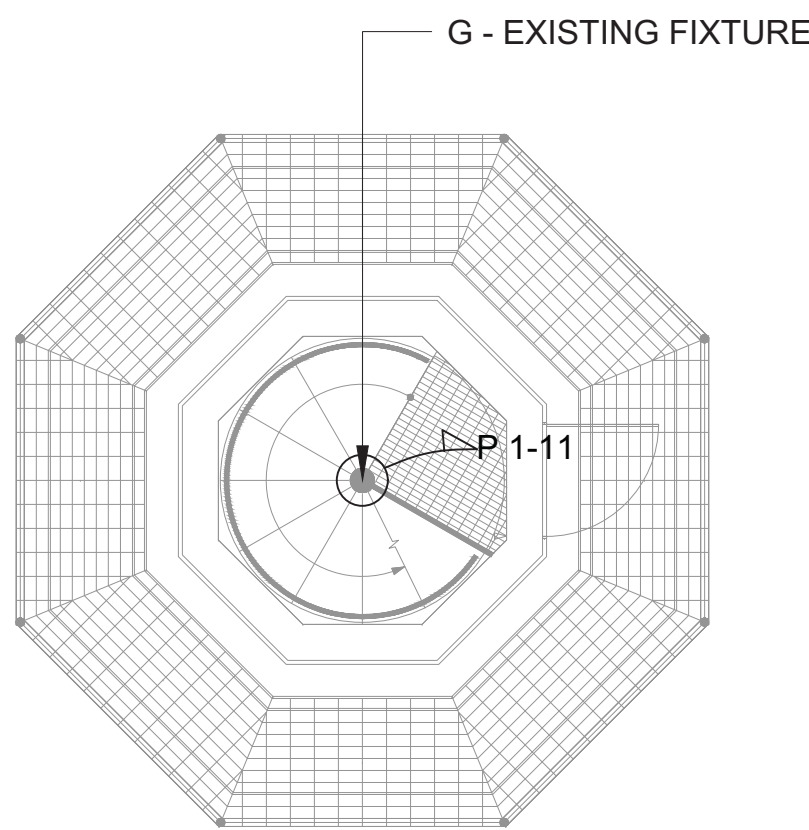
2 Ground Floor Electrical Plan
Scale: 1/4"=1'-0"



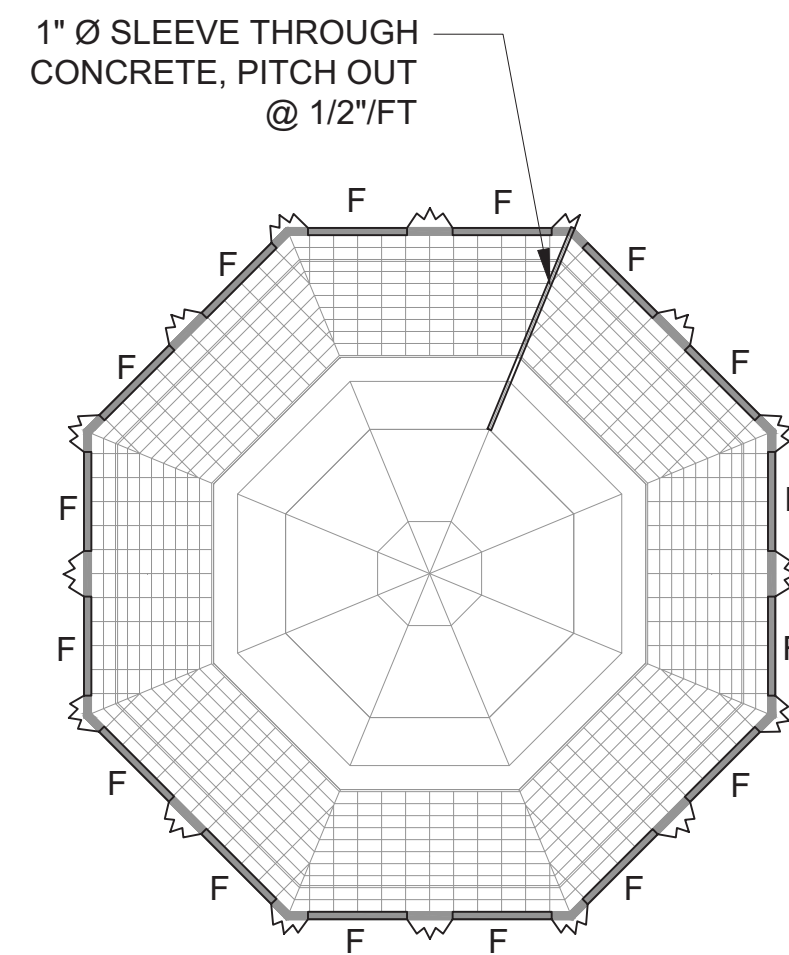
3 Observation Deck Electrical Plan
Scale: 1/4"=1'-0"



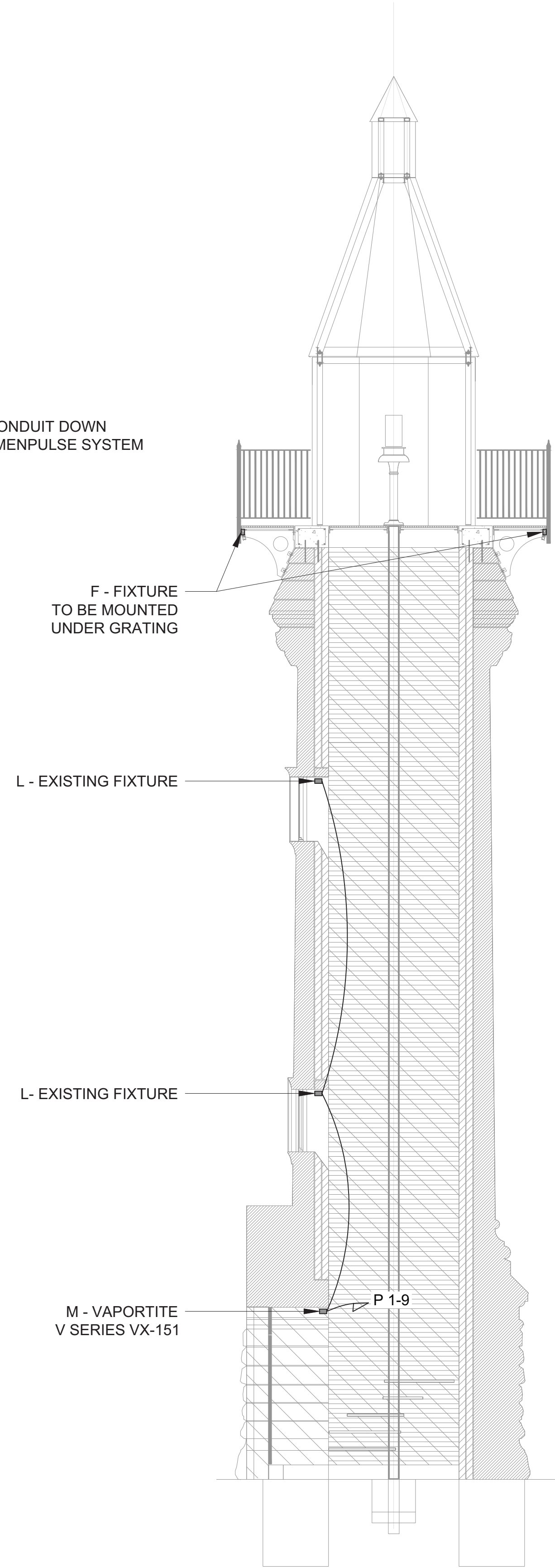
4 Site Lighting Plan
Scale: 1/4"=1'-0"



5 Observation Platform Lighting Plan
Scale: 1/4"=1'-0"



6 Underside of Observation Deck Electrical and Lighting Plan
Scale: 1/4"=1'-0"



7 Lighthouse Section Lighting
Scale: 1/4"=1'-0"

SYMBOL	DESCRIPTION
	GFI OUTLET

GRAPHIC SCALE 1/4" = 1'-0"
0 1 4 8 12 FT

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REVISIONS:

Issue	Date

PROJECT

ROOSEVELT ISLAND
LIGHTHOUSE
NEW YORK, NY

DRAWING TITLE

ELECTRICAL POWER AND
LIGHTING PLANS

DATE: 3/2/2020

DRAWN BY: LIM

CHK BY: MDN

SHEET NUMBER:

DOB NOW JOB NO.: M00449571

DRAWING NO.

E-100.00

SHEET 05 of 07

SEAL AND SIGNATURE:



DOB BSCAN:

DOB STAMP AND SIGNATURE:

GENERAL ELECTRIC NOTES

1. ELECTRICAL INSTALLATION SHALL COMPLY WITH ALL CURRENT APPLICABLE CODES, INCLUDING NEW YORK CITY ELECTRICAL CODE, THE NATIONAL ELECTRICAL CODE, AND ALL APPLICABLE CODES HAVING JURISDICTION.
2. DRAWINGS ARE DIAGRAMMATIC. EXACT LOCATIONS SHALL SUIT FIELD CONDITIONS AND BE COORDINATED WITH ARCHITECT AND ALL TRADES PRIOR TO INSTALLATION.
3. ELECTRICAL CONTRACTOR SHALL SIZE PULL BOXES AND SUPPORT BOXES TO SUIT FIELD CONDITIONS. REFER TO ARCHITECTURAL DRAWINGS AND WALL TYPES FOR PARTITION THICKNESSES.
4. FOR EXACT LOCATIONS OF MOTORS AND ASSOCIATED ELECTRICAL EQUIPMENT, REFER TO MECHANICAL AND PLUMBING DOCUMENTS.
5. ALL CONTROL, SIGNAL, MONITORING AND ANNUNCIATING WIRING AND CONDUIT SHALL CONFORM TO EQUIPMENT MANUFACTURER'S RECOMMENDATIONS AND REQUIREMENTS AND SHALL BE AS REQUIRED FOR A COMPLETE AND FULLY OPERATIONAL SYSTEM, UNLESS SPECIFICALLY NOTED OTHERWISE. ALL WIRING NOT IN CONDUIT MUST BE PLENUM RATED.
6. ALL SHUTDOWNS SHALL BE PRE-SCHEDULED WITH BUILDINGS MANAGEMENT AND PERFORMED ON PREMIUM RATES.
7. ELECTRICAL CONTRACTOR SHALL REFER TO ARCHITECTS DOCUMENTS FOR EXACT LOCATION AND MOUNTING HEIGHTS OF ALL LIGHTING FIXTURES AND ASSOCIATED SWITCHING CONTROLS.
8. PROVIDE ALL WORK INDICATED ON THE DRAWINGS UNLESS SPECIFICALLY NOTED AS BEING FOR COORDINATION ONLY. FOR PIPING, CONDUITS, DUCTWORK, EQUIPMENT, ETC., WHICH IS INDICATED OUTSIDE THE MAIN AREA OF RENOVATION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ACCESS TO THE AREA FOR PERFORMING THE WORK. ALL FINISHES ARE TO BE RESTORED TO "AS IS" OR "LIKE NEW" CONDITIONS.
9. ANY DAMAGE TO EXISTING PARTITIONS, FLOORS, CEILINGS, OR ANY PART OF THE BUILDING OR EQUIPMENT CAUSED BY THE WORK OF THE CONTRACT SHALL BE MADE GOOD AT NO ADDITIONAL EXPENSE TO THE OWNER.
10. THE CONTRACTOR SHALL MAINTAIN CONTINUITY OF SERVICE ON ALL CIRCUITS AFFECTED BY THESE CHANGES. WHENEVER IT IS REQUIRED THAT AN EXISTING CIRCUIT BE REVISED, DISCONNECTED, OR REMOVED, IT SHALL BE UNDERSTOOD THAT THE CIRCUIT SHALL BE RE-CONNECTED AND SERVICE RE-ESTABLISHED IN THE REMAINING PORTION OF THE CIRCUIT AFFECTED BY THE ALTERATION.
11. THE ELECTRICAL CONTRACTOR SHALL VISIT AND EXAMINE CAREFULLY THE EXISTING AREAS AFFECTED BY THIS WORK TO BECOME FAMILIAR WITH EXISTING CONDITIONS AND WITH DIFFICULTIES THAT WILL AFFECT THE EXECUTION OF THIS WORK. CONTRACTOR WILL PERFORM THIS PRIOR TO SUBMITTING HIS PROPOSAL. SUBMISSION OF A PROPOSAL WILL BE CONSTRUED AS EVIDENCE THAT SUCH AN EXAMINATION HAS BEEN MADE AND LATER CLAIMS WILL NOT BE RECOGNIZED FOR EXTRA LABOR, MATERIAL OR EQUIPMENT REQUIRED BECAUSE OF DIFFICULTIES ENCOUNTERED WHICH COULD HAVE BEEN FORESEEN HAD SUCH AN EXAMINATION BEEN MADE.
12. PRIOR TO THE INSTALLATION OF ANY WORK, THE CONTRACTOR SHALL CONFIRM THAT IT DOES NOT INTERFERE WITH CLEARANCES REQUIRED FOR FINISHED COLUMNS, HUNG CEILINGS, PLASTER PARTITIONS, WALLS, ETC. AS SHOWN IN THE ARCHITECTURAL DOCUMENTS. IF ANY WORK IS SO INSTALLED AND IT LATER DEVELOPS THAT SUCH DETAILS OR DESIGN CANNOT BE FOLLOWED, THE CONTRACTOR AT HIS OWN EXPENSE SHALL MAKE SUCH CHANGES IN THE WORK AS DIRECTED BY THE ARCHITECT AS WELL AS TO PERMIT THE INSTALLATION OF THE ARCHITECTURAL WORK AS SHOWN ON THE DOCUMENTS.
13. ALL NEW WORK IN OR THROUGH EXISTING OCCUPIED SPACES SHALL BE COORDINATED WITH THE TENANT AND THE BUILDING MANAGEMENT. PROVIDE PROPER PROTECTION FOR ALL FURNISHINGS AND FIXTURES, ETC.
14. DEMOLITION, CUTTING, BURNING, TRENCHING OR CORE DRILLING SHALL BE PERFORMED AN AN OVERTIME BASIS AS DIRECTED BY THE OWNER, TENANT AND BUILDING MANAGEMENT.
15. MINIMUM WIRE SIZE/TYPE FOR LIGHT AND POWER SHALL BE #12 THHN.
16. THE PANELS SHALL BE CLEARLY LABELED AND THE CONTRACTOR SHALL PROVIDE A COMPLETE TYPE WRITTEN DIRECTORY IN EACH PANEL AND MARKED-UP FLOOR PLAN WITH THE CIRCUITING OF THE RECEPTACLES UPON COMPLETION OF THE PROJECT.
17. BX CABLE MAY BE USED IN CONCEALED SPACES ONLY. EMT MAY BE USED IN EXPOSED LOCATIONS.
18. ALL CONDUIT IN EXPOSED AREAS MUST BE RUN LEVEL, PLUMB AND TIGHT TO WALLS, CEILINGS, BEAMS, ETC.
19. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL HVAC WIRING, INCLUDING POWER AND CONTROL. HVAC CONTRACTOR SHALL PROVIDE THERMOSTATS, ACTUATORS, SWITCHES, ETC.
20. FIRESTOPPING SHALL BE INSTALLED WHENEVER WIRING OR RACEWAYS CROSS FIRE RATED CONSTRUCTION.
21. SEE LIGHTING SPECIFICATIONS FOR ALL FIXTURES AND CEILING FANS.

ELECTRIC SPECIFICATIONS

1. GENERAL

1.1. ALL WORK SHALL CONFORM TO THE REQUIREMENTS OF THE BUILDING CODE AND ELECTRICAL CODE OF THE CITY OF NEW YORK, LATEST EDITIONS, WITH THE SPECIFICATIONS AND WITH THE REGULATIONS OF ALL GOVERNMENTAL AGENCIES HAVING JURISDICTION.

1.2. ALL ELECTRICAL WORK SHALL BE COORDINATED WITH ARCHITECTURAL AND MECHANICAL DRAWINGS AND SHALL CONFORM TO THE PROJECT SPECIFICATIONS, INCLUDING THE NEW YORK CITY BUILDING AND ELECTRICAL CODES AND ALL LOCAL, STATE AND FEDERAL REGULATIONS GOVERNING THE WORK.

1.3. PRIOR TO CONSTRUCTION, CONTRACTOR SHALL VERIFY ALL ELEVATIONS AND DIMENSIONS WITH EXISTING CONDITIONS AND WITH OTHER PROJECT DRAWINGS. IN CASE OF CONFLICT BETWEEN THE CONTRACT DRAWINGS AND OTHER PORTIONS OF THE CONTRACT DOCUMENTS, THE CONTRACTOR SHALL MAKE ALLOWANCE IN HIS BID FOR THE MOST STRINGENT CONDITIONS. CONFLICTS BETWEEN THE CONTRACT DRAWINGS AND THE CONTRACT REQUIREMENTS FOR OTHER TRADES SHALL NOT BE A REASON FOR ANY EXTRA COST OR DELAY IN THE EXECUTION OF WORK.

1.4. CONDUIT AND CABLE ARE SHOWN DIAGRAMMATICALLY. THE CONTRACTOR SHALL ALLOW IN HIS PRICE FOR RUNNING OF CONDUIT AND CABLE TO AVOID OBSTRUCTIONS. COORDINATE WITH ARCHITECTURAL DRAWINGS.

1.5. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE THE ELECTRICAL WORK WITH THE MECHANICAL, ARCHITECTURAL AND PLUMBING DRAWINGS. IN CASE OF CONFLICT BETWEEN THE MEP DRAWINGS AND OTHER PORTIONS OF THE CONTRACT DOCUMENTS, THE CONTRACTOR SHALL MAKE ALLOWANCE IN HIS BID FOR THE MORE STRINGENT CONDITIONS. CONFLICTS BETWEEN THE ELECTRICAL DRAWINGS AND THE CONTRACT REQUIREMENTS FOR OTHER TRADES SHALL NOT BE A REASON FOR ANY EXTRA COST OR DELAY IN THE EXECUTION OF WORK. IN THE CASE OF CONFLICT BETWEEN THE NOTES, DRAWINGS AND SPECIFICATIONS, THE MOST RIGID REQUIREMENT SHALL GOVERN.

1.6. ALL FIRE ALARM EQUIPMENT SHALL HAVE AN MEA AND/OR BSA NUMBER.

1.7. PROPERLY FIRESTOP ALL PENETRATIONS THROUGH PARTITIONS, WALLS AND FLOORS.

1.8. DISCONNECT REMOVE AND/OR RELOCATE EXISTING MATERIAL, EQUIPMENT AND OTHER WORK AS NOTED OR REQUIRED FOR PROPER INSTALLATION OF NEW SYSTEM.

1.9. INSTALL WORK IN A MANNER THAT ALLOWS ACCESS FOR OPERATION, MAINTENANCE AND REPAIRS. ANY DEVIATIONS FROM DRAWINGS SHALL BE SUBMITTED TO ARCHITECT AND ENGINEER FOR APPROVAL PRIOR TO COMMENCEMENT.

1.10. ALL DIMENSIONS INDICATED ON THE DRAWINGS ARE BASED UPON AVAILABLE INFORMATION, AND SHALL NOT BE USED FOR ORDERING OR FABRICATING MATERIALS. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS IN THE FIELD PRIOR TO ORDERING OF FABRICATING MATERIAL.

1.11. WORK INDICATED ON A PART OF THE DRAWINGS BUT REASONABLY IMPLIED TO BE SIMILAR TO THAT SHOWN ON THE CORRESPONDING PIECES SHALL BE REPEATED.

1.12. THE CONTRACTOR SHALL VERIFY ALL INFORMATION PERTAINING TO EXISTING CONDITIONS BY ACTUAL MEASUREMENT AND OBSERVATION AT THE SITE. ALL DISCREPANCIES BETWEEN ACTUAL CONDITIONS AND THOSE SHOWN IN THE CONTRACT DOCUMENTS SHALL BE REPORTED TO THE ARCHITECT FOR HIS EVALUATION BEFORE THE AFFECTED CONSTRUCTION IS PUT IN PLACE.

1.13. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR THE CORRECTNESS OF DIMENSIONS OR QUANTITIES AND FOR FITTING TO OTHER WORK; FOR WORK TO BE CONFIRMED AND CORRELATED AT THE SITE; FOR INFORMATION PERTAINING TO THE FABRICATION PROCEDURE AND TO HAVE CONTROL OVER MEANS, METHODS TECHNIQUES, SEQUENCES AND PROCEDURES AND FOR THE COORDINATION OF THE MECHANICAL, ELECTRICAL AND PLUMBING WORK WITH OTHER TRADES.

1.14. THE CONTRACTOR SHALL BE RESPONSIBLE FOR INITIATING, MAINTAINING AND SUPERVISING ALL SAFETY PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THIS WORK. THE VERIFICATION OF THE PHYSICAL INTERRELATIONSHIPS OF THE ELEMENTS OF THE WORK FROM THE PLANS AND SPECIFICATIONS AND IN THE FIELD IS THE CONTRACTOR'S SOLE RESPONSIBILITY. REVIEW OF THE CONTRACTOR'S SUBMISSIONS DOES NOT RELIEVE THE CONTRACTOR OF THIS RESPONSIBILITY.
2. SCOPE OF WORK

2.1. THIS WORK INCLUDES ALL LABOR AND MATERIALS NECESSARY FOR THE FURNISHING, INSTALLING TESTING AND OPERATION OF THE SYSTEMS.

2.2. THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS AND LICENSES REQUIRED TO CARRY OUT THIS WORK AND PAY FOR ALL FEES REQUIRED. THE CONTRACTOR SHALL ARRANGE FOR INSPECTION AUTHORITIES AND PAY ALL CHARGES. THE CONTRACTOR SHALL PAY ALL COSTS FOR AND FURNISH TO THE OWNER BEFORE FINAL BILLING ALL CERTIFICATES NECESSARY AS EVIDENCE THAT THE WORK INSTALLED CONFORMS WITH ALL REGULATIONS.

- 2.3. THE CONTRACTOR SHALL FURNISH A WRITTEN GUARANTEE TO REPLACE OR REPAIR PROMPTLY AND ASSUME RESPONSIBILITY FOR ALL EXPENSES INCURRED FOR ANY WORKMANSHIP AND EQUIPMENT IN WHICH DEFECTS DEVELOP WITHIN WITHIN ONE YEAR FROM THE DATE OF FINAL CERTIFICATE FOR PAYMENT, AND/OR DATE OF ACTUAL USE OF EQUIPMENT OR OCCUPANCY OF SPACES BY THE OWNER. THE GUARANTEE START DATE WILL BE DETERMINED BY THE ARCHITECT. THIS GUARANTEE SHALL ALSO PROVIDE THAT WHERE DEFECTS OCCUR, THE CONTRACTOR WILL ASSUME ALL RESPONSIBILITY AND FOR EXPENSES INCURRED IN REPAIRING AND REPLACING WORK OF OTHER TRADES AFFECTED BY THE DEFECTS, REPAIRS OR REPLACEMENT OF EQUIPMENT SUPPLIED BY THE CONTRACTOR.
- 2.4. THE CONTRACTOR WILL PROVIDE ALL REQUIRED CONTROLLED INSPECTIONS. ALL CONTROLLED INSPECTIONS SHALL BE PERFORMED UNDER THE SUPERVISION OF A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF NEW YORK ENGAGED BY THE CONTRACTOR. REPORTS SHALL BE SUBMITTED TO THE OWNER AND ENGINEER FOR REVIEW.
- 2.5. PRIOR TO THE INSTALLATION OF ANY WORK AND PROCUREMENT OF EQUIPMENT, PROVIDE COMPLETE SET OF COORDINATED SHOP DRAWINGS OF ALL NEW AND EXISTING EQUIPMENT, DUCTWORK, PIPING AND CONTROL SYSTEMS INDICATING CAPACITY, DIMENSIONS AND SEQUENCE OF OPERATIONS FOR WRITTEN APPROVAL BY THE ARCHITECT AND ENGINEER.
3. SUBMITTALS

3.1. SUBMIT SAMPLES, SHOP DRAWINGS OF ALL DETAILS, PRODUCT DATA, TEST REPORTS AND DATA, MANUFACTURER'S NAMES, CERTIFICATIONS AND PROCEDURES FOR ALL SPECIFIED ITEMS AS REQUESTED. SHOP DRAWINGS SHALL CONFORM TO THE BEST STANDARDS OF THE CONSTRUCTION INDUSTRY AND SHALL BE PREPARED BY AND UNDER THE SUPERVISION OF COMPETENT ENGINEERING PERSONNEL. NO WORK SHALL COMMENCE WITHOUT PRIOR APPROVAL OF ALL SUBMITTALS, SHOP DRAWINGS, PRODUCT DATA, TEST REPORTS, AND DATA, MANUFACTURER'S NAMES, CERTIFICATIONS AND PROCEDURES FOR ALL SPECIFIED ITEMS AS REQUESTED.

3.2. SUBMISSIONS WILL INCLUDE BUT ARE NOT LIMITED TO SWITCHES, RECEPTACLES, DATA JACKS, DATA WIRE, PATCH PANELS, PANELS AND BREAKERS, FUSES, WALL SWITCHES, OCCUPANCY SENSORS, INFRARED SENSORS, TIME SWITCHES, POWER PACKS, RACEWAYS, AND LIGHTING FIXTURES.

3.3. UPON COMPLETION AND ACCEPTANCE OF WORK, CONTRACTOR SHALL FURNISH WRITTEN INSTRUCTIONS AND EQUIPMENT MANUALS AND DEMONSTRATE TO THE OWNER THE PROPER OPERATION AND MAINTENANCE OF ALL EQUIPMENT FURNISHED UNDER THIS CONTRACT.

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REVISIONS:

Issue	Date

PROJECT

ROOSEVELT ISLAND
LIGHTHOUSE
NEW YORK, NY

DRAWING TITLE

ELECTRICAL NOTES

DATE:	6/24/2020
DRAWN BY:	LIM
CHK BY:	MDN
SHEET NUMBER:	
DOB NOW JOB NO.:	M00449571
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