



**GAMMA SECTOR
(EXISTING CONDITION)**
SCALE: N.T.S.

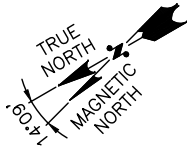
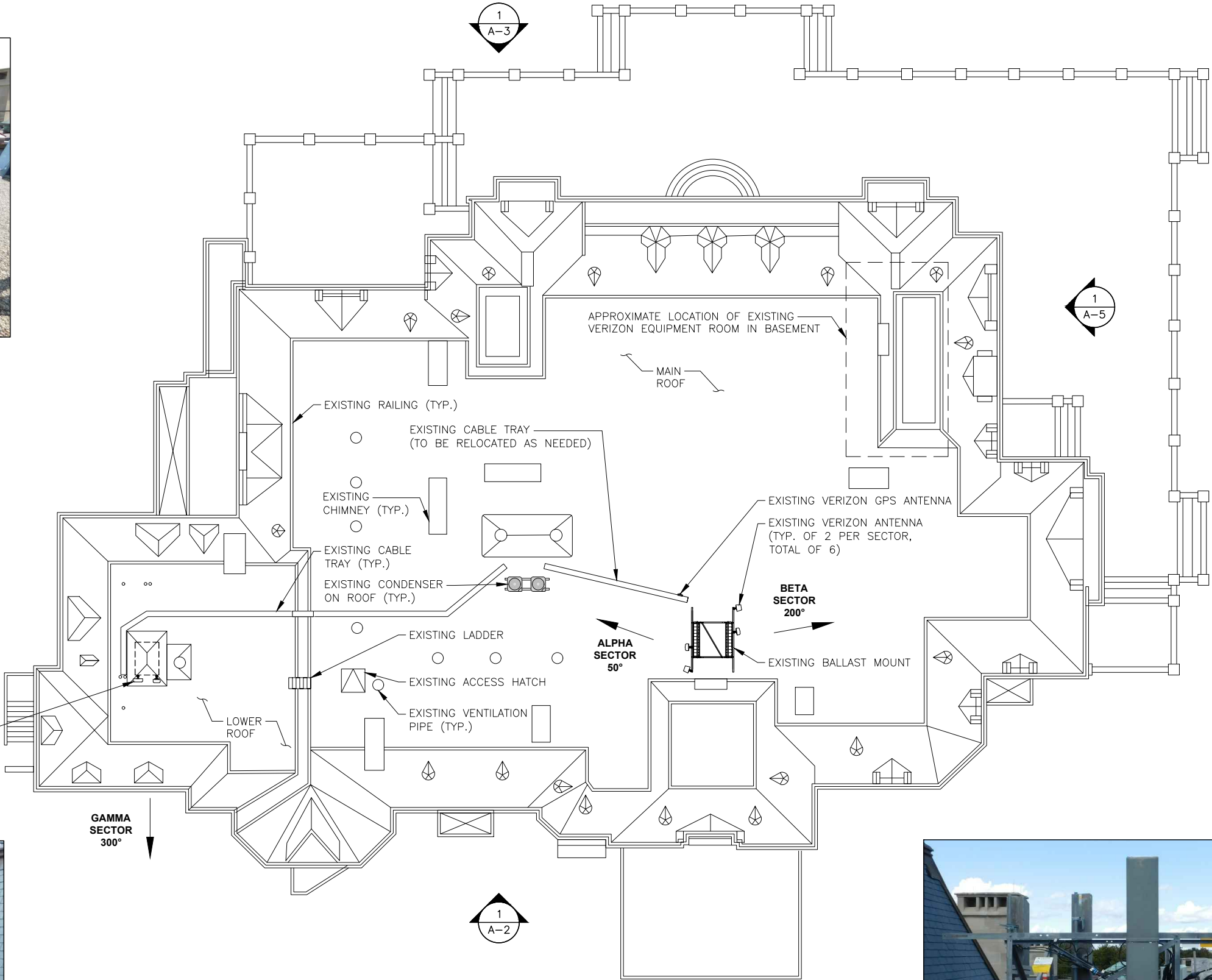
2
A-1

1
A-4



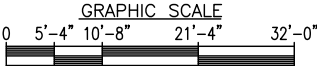
**ALPHA SECTOR
(EXISTING CONDITION)**
SCALE: N.T.S.

3
A-1



**ROOF PLAN
(EXISTING CONDITION)**
22x34 SCALE: 3/32"=1'-0"
11x17 SCALE: 3/64"=1'-0"

1
A-1



**BETA SECTOR
(EXISTING CONDITION)**
SCALE: N.T.S.

4
A-1

PREPARED FOR:

verizon

118 FLANDERS ROAD
WESTBOROUGH, MA 01581

HG

**HUDSON
Design Group LLC**

45 BEECHWOOD DRIVE
N. ANDOVER, MA 01845

TEL: (978) 557-5553
FAX: (978) 336-5586

DANIEL P. HAMM

No. 8135

Daniel P. Hamm

**REGISTERED
PROFESSIONAL ENGINEER**

CONSTRUCTION DRAWINGS VALID FOR SIX
MONTHS AFTER ENGINEER OF RECORD'S STAMPED
AND SIGNED SUBMITTAL DATE LISTED HEREIN

CHECKED BY: JX

APPROVED BY: DPH

SUBMITTALS

REV.	DATE	DESCRIPTION	BY
5	02/08/21	REVISED PER COMMENTS	OS
4	01/06/21	ADDED ELEVATIONS	OS
3	11/09/20	MOVED RHH'S	OS
2	02/25/20	REVISED PER COMMENTS	SF
1	01/31/20	REVISED PER COMMENTS	OS
0	11/22/19	FOR CONSTRUCTION	OS

SITE NAME:
NEWPORT SOUTH RI

SITE ADDRESS:
16 OCHRE POINT AVENUE
NEWPORT, RI 02840

SHEET TITLE
**ROOF PLAN
(EXISTING
CONDITION)**

SHEET NUMBER

A-1

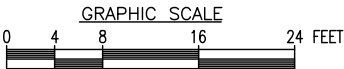
- HIGHEST APPURTENANCE
(EXISTING RAILING)
ELEV. = 81'-0"± (AGL)
140'-0"± (AMSL)
- TOP OF EXISTING
VERIZON ANTENNAS
(ALPHA & BETA SECTORS)
ELEV. = 73'-0"± (AGL)
132'-0"± (AMSL)
- CL OF EXISTING
VERIZON ANTENNAS
(ALPHA & BETA SECTORS)
ELEV. = 70'-0"± (AGL)
129'-0"± (AMSL)
- TOP OF EXISTING VERIZON
ANTENNAS (GAMMA SECTOR)
ELEV. = 65'-10"± (AGL)
124'-10"± (AMSL)
- TOP OF EXISTING MAIN ROOF
ELEV. = 65'-0"± (AGL)
124'-0"± (AMSL)
- CL OF EXISTING VERIZON
ANTENNAS (GAMMA SECTOR)
ELEV. = 63'-10"± (AGL)
122'-10"± (AMSL)
- TOP OF EXISTING LOWER ROOF
ELEV. = 61'-6"± (AGL)
120'-6"± (AMSL)
- EXISTING BUILDING
- GRADE
ELEV. = 0'-0"± (AGL)
59'-0"± (AMSL)



**WEST ELEVATION
(EXISTING CONDITION)**

22x34 SCALE: 1/8"=1'-0"
11x17 SCALE: 1/16"=1'-0"

1
A-2



PREPARED FOR:

verizon

118 FLANDERS ROAD
WESTBOROUGH, MA 01581

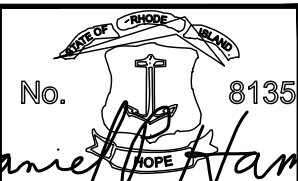


**HUDSON
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DANIEL P. HAMM



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NEWPORT SOUTH RI

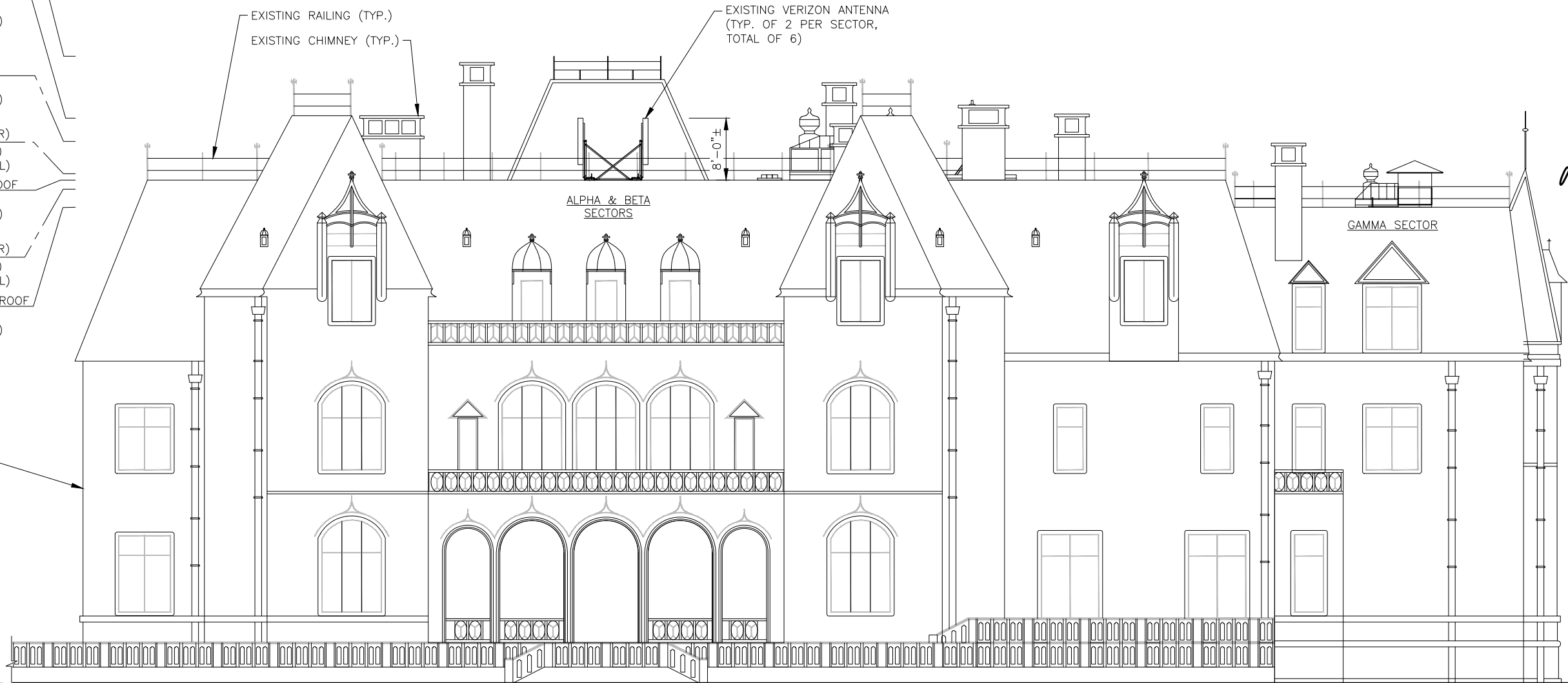
SITE ADDRESS:
16 OCHRE POINT AVENUE
NEWPORT, RI 02840

SHEET TITLE
**WEST ELEVATION
(EXISTING
CONDITION)**

SHEET NUMBER

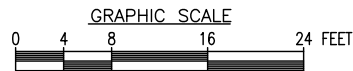
A-2

- HIGHEST APPURTENANCE
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140'-0"± (AMSL)
- TOP OF EXISTING
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(ALPHA & BETA SECTORS)
ELEV. = 73'-0"± (AGL)
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ELEV. = 61'-6"± (AGL)
120'-6"± (AMSL)
- EXISTING BUILDING
- GRADE
ELEV. = 0'-0"± (AGL)
59'-0"± (AMSL)



**EAST ELEVATION
(EXISTING CONDITION)**
22x34 SCALE: 1/8"=1'-0"
11x17 SCALE: 1/16"=1'-0"

1
A-3



PREPARED FOR:

verizon

118 FLANDERS ROAD
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SHEET TITLE
**EAST ELEVATION
(EXISTING
CONDITION)**

SHEET NUMBER

A-3

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118 FLANDERS ROAD
WESTBOROUGH, MA 01581

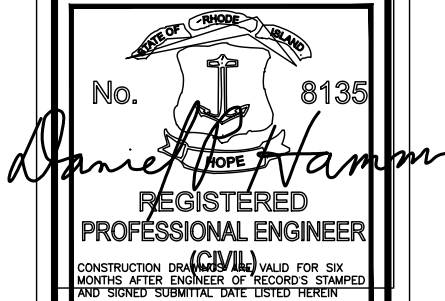


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SITE NAME:
NEWPORT SOUTH RI

SITE ADDRESS:
16 OCHRE POINT AVENUE
NEWPORT, RI 02840

SHEET TITLE
NORTH ELEVATION
(EXISTING
CONDITION)

SHEET NUMBER

A-4

HIGHEST APPURTENANCE
(EXISTING RAILING)
ELEV. = 81'-0"± (AGL)
140'-0"± (AMSL)

TOP OF EXISTING
VERIZON ANTENNAS
(ALPHA & BETA SECTORS)
ELEV. = 73'-0"± (AGL)
132'-0"± (AMSL)

CL OF EXISTING
VERIZON ANTENNAS
(ALPHA & BETA SECTORS)
ELEV. = 70'-0"± (AGL)
129'-0"± (AMSL)

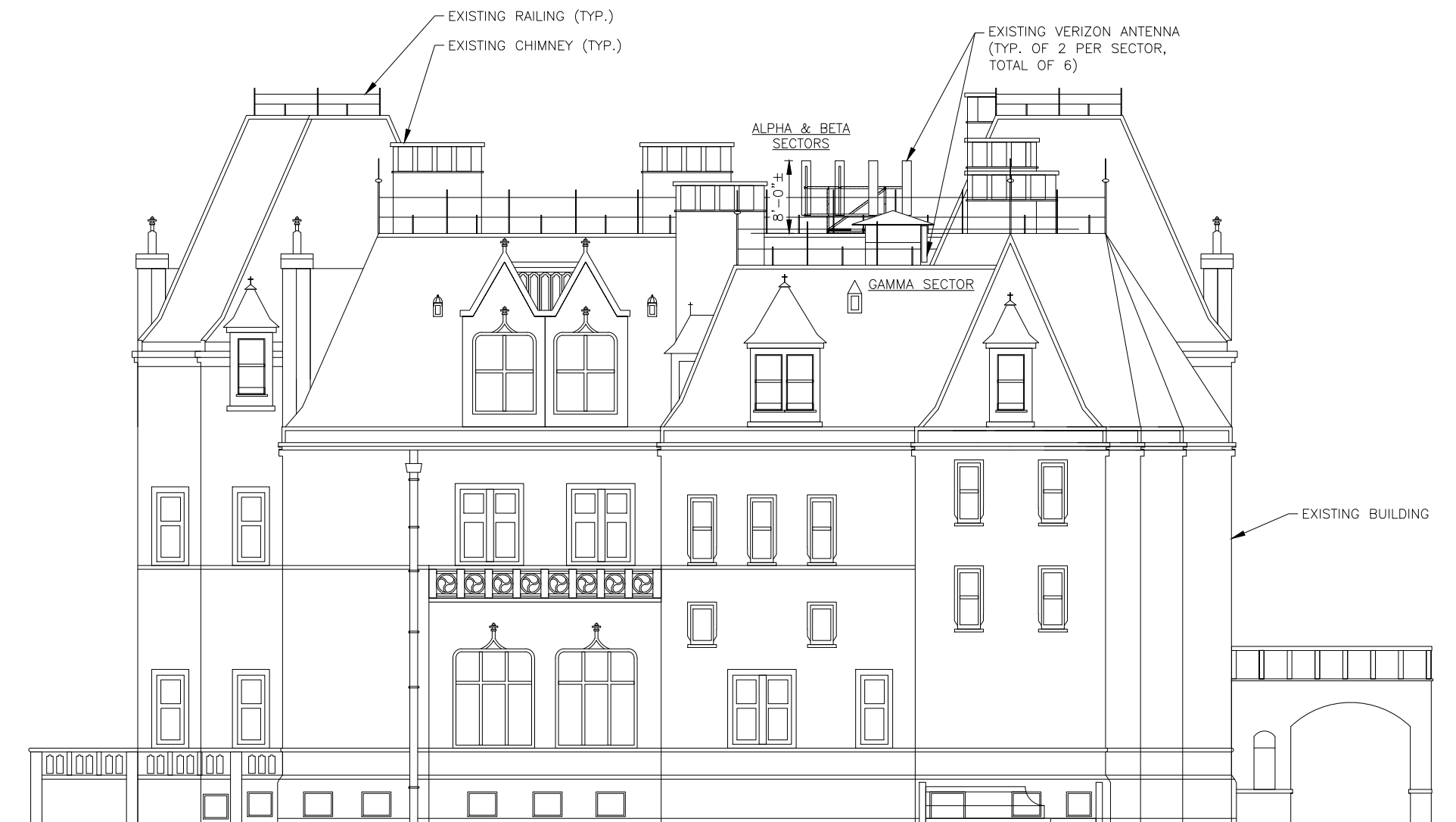
TOP OF EXISTING VERIZON
ANTENNAS (GAMMA SECTOR)
ELEV. = 65'-10"± (AGL)
124'-10"± (AMSL)

TOP OF EXISTING MAIN ROOF
ELEV. = 65'-0"± (AGL)
124'-0"± (AMSL)

CL OF EXISTING VERIZON
ANTENNAS (GAMMA SECTOR)
ELEV. = 63'-10"± (AGL)
122'-10"± (AMSL)

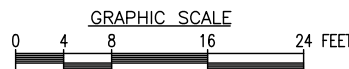
TOP OF EXISTING LOWER ROOF
ELEV. = 61'-6"± (AGL)
120'-6"± (AMSL)

GRADE
ELEV. = 0'-0"± (AGL)
59'-0"± (AMSL)



NORTH ELEVATION (EXISTING CONDITION)

22x34 SCALE: 1/8"=1'-0"
11x17 SCALE: 1/16"=1'-0"



PREPARED FOR:

verizon

118 FLANDERS ROAD
WESTBOROUGH, MA 01581

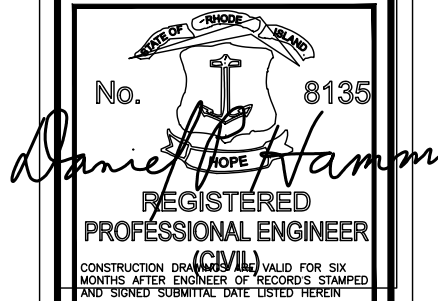


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CHECKED BY: JX

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SITE NAME:
NEWPORT SOUTH RI

SITE ADDRESS:
16 OCHRE POINT AVENUE
NEWPORT, RI 02840

SHEET TITLE
SOUTH ELEVATION
(EXISTING
CONDITION)

SHEET NUMBER

A-5

HIGHEST APPURTENANCE
(EXISTING RAILING)
ELEV. = 81'-0"± (AGL)
140'-0"± (AMSL)

TOP OF EXISTING
VERIZON ANTENNAS
(ALPHA & BETA SECTORS)
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132'-0"± (AMSL)

CL OF EXISTING
VERIZON ANTENNAS
(ALPHA & BETA SECTORS)
ELEV. = 70'-0"± (AGL)
129'-0"± (AMSL)

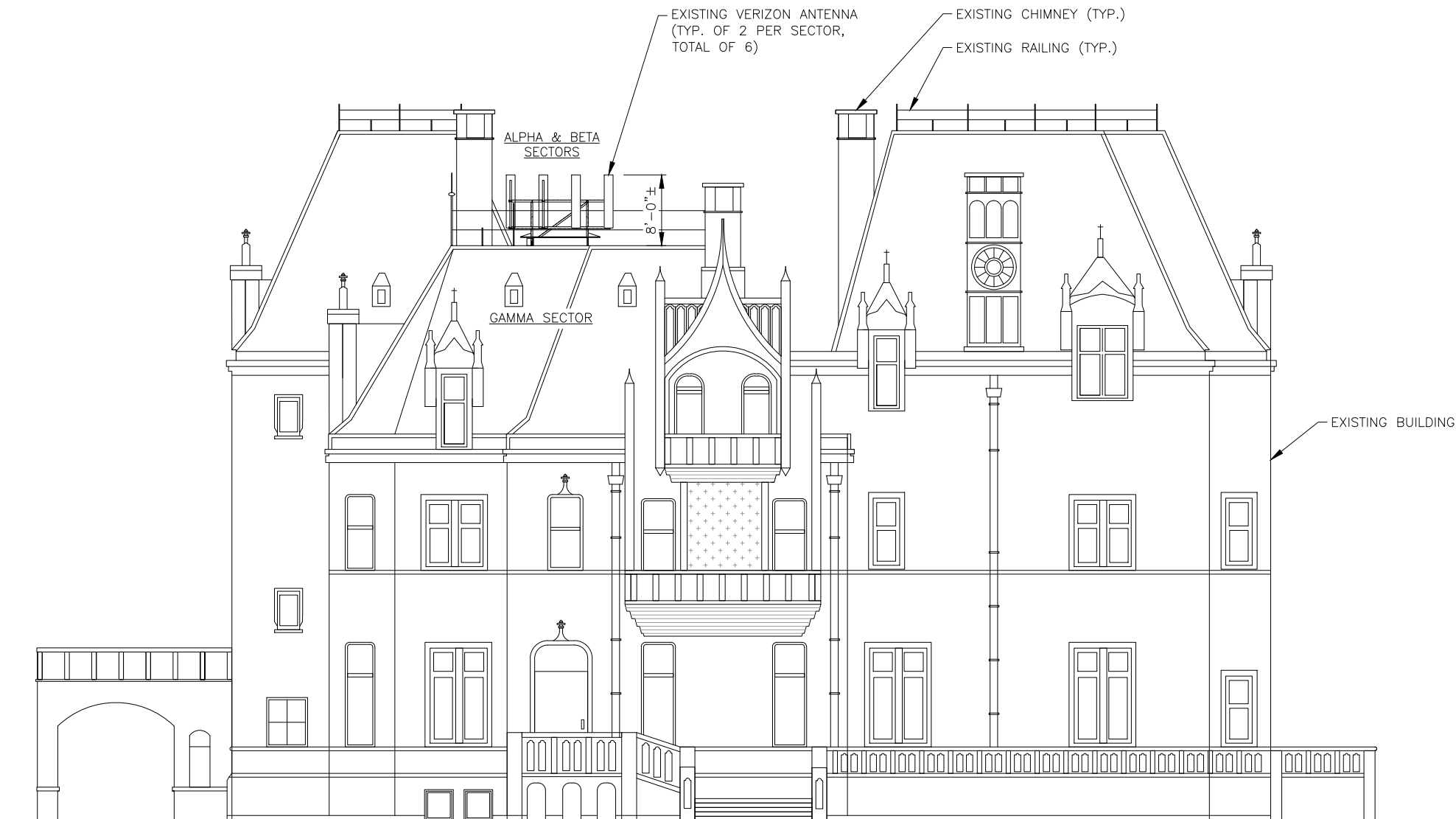
TOP OF EXISTING VERIZON
ANTENNAS (GAMMA SECTOR)
ELEV. = 65'-10"± (AGL)
124'-10"± (AMSL)

TOP OF EXISTING MAIN ROOF
ELEV. = 65'-0"± (AGL)
124'-0"± (AMSL)

CL OF EXISTING VERIZON
ANTENNAS (GAMMA SECTOR)
ELEV. = 63'-10"± (AGL)
122'-10"± (AMSL)

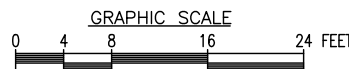
TOP OF EXISTING LOWER ROOF
ELEV. = 61'-6"± (AGL)
120'-6"± (AMSL)

GRADE
ELEV. = 0'-0"± (AGL)
59'-0"± (AMSL)



**SOUTH ELEVATION
(EXISTING CONDITION)**

22x34 SCALE: 1/8"=1'-0"
11x17 SCALE: 1/16"=1'-0"

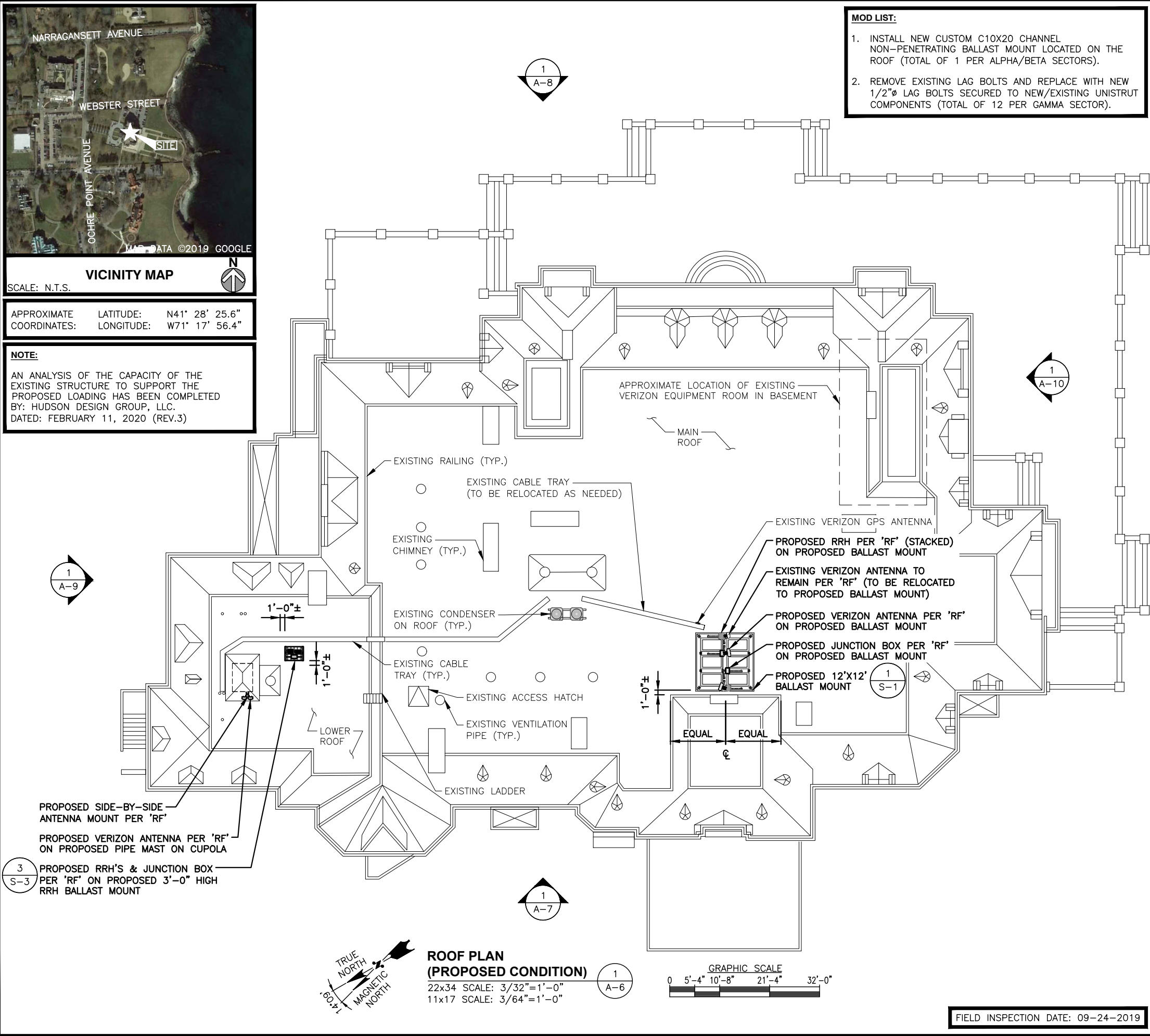




VICINITY MAP
SCALE: N.T.S.

APPROXIMATE COORDINATES: LATITUDE: N41° 28' 25.6" LONGITUDE: W71° 17' 56.4"

NOTE:
AN ANALYSIS OF THE CAPACITY OF THE EXISTING STRUCTURE TO SUPPORT THE PROPOSED LOADING HAS BEEN COMPLETED BY: HUDSON DESIGN GROUP, LLC.
DATED: FEBRUARY 11, 2020 (REV.3)



- MOD LIST:
1. INSTALL NEW CUSTOM C10X20 CHANNEL NON-PENETRATING BALLAST MOUNT LOCATED ON THE ROOF (TOTAL OF 1 PER ALPHA/BETA SECTORS).
 2. REMOVE EXISTING LAG BOLTS AND REPLACE WITH NEW 1/2"Ø LAG BOLTS SECURED TO NEW/EXISTING UNISTRUT COMPONENTS (TOTAL OF 12 PER GAMMA SECTOR).

- SCOPE
1. EXISTING (5) ANTENNAS TO BE REMOVED, EXISTING (1) ANTENNA TO REMAIN, INSTALL (4) PROPOSED ANTENNAS PER 'RF'.
 2. INSTALL (1) SIDE-BY-SIDE ANTENNA MOUNT PER 'RF'.
 3. ALL EXISTING RRH'S TO BE REMOVED, INSTALL (6) PROPOSED RRH'S PER 'RF'.
 4. INSTALL (3) PROPOSED JUNCTION BOXES PER 'RF'.
 5. INSTALL (3) PROPOSED HYBRID CABLES PER 'RF'.
 6. ALL EXISTING COAX CABLES TO REMAIN PER 'RF'.
 7. ALL REPLACEMENT ANTENNAS TO MATCH EXISTING CONDITION & HEIGHTS.
 8. RECONFIGURE/RELOCATE EXISTING ANTENNA MOUNTS AS NECESSARY TO ACCOMMODATE HORIZONTAL SEPARATION, PROPOSED AZIMUTHS, AND ANTENNAS CONFIGURATION.

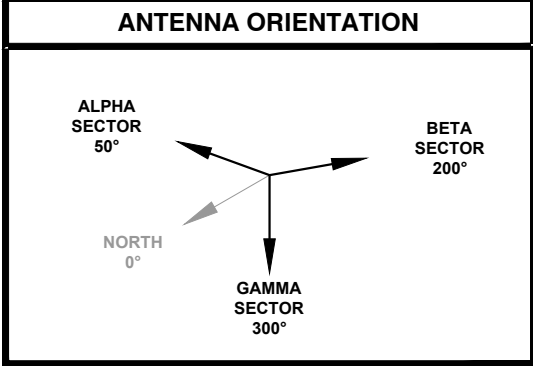
NEW ANTENNA CONFIGURATION

NOTE TO GENERAL CONTRACTOR:

'RF' DESIGN AND EQUIPMENT IS BASED UPON RFDS ISSUED BY VZW DATED: FEBRUARY 06, 2020 REVISION #6.

THE CONTRACTOR OF RECORD SHALL CONTACT VZW PRIOR TO ANY AND ALL ORDERING/PURCHASING/INSTALLATION OF EQUIPMENT TO VERIFY THAT THE 'RF' LISTED IN THE DRAWING SET IS CURRENT AND UP TO DATE.

- NOTES
1. NORTH SHOWN AS APPROXIMATE.
 2. SOME EXISTING & PROPOSED INFORMATION NOT SHOWN FOR CLARITY.
 3. ANTENNAS WILL BE CAMOUFLAGED WITH 3M WRAP, AS NEEDED, PER VERIZON WIRELESS AND BUILDING OWNER'S APPROVAL.
 4. PRIOR TO COMMENCEMENT OF ANY WORK, PROPOSED ANTENNA INSTALLATION IS PURSUANT TO FINDINGS DICTATED IN STRUCTURAL ANALYSIS. STRUCTURAL ANALYSIS TO VERIFY CAPACITY OF EXISTING STRUCTURE TO ENSURE STRUCTURAL INTEGRITY FOLLOWING INSTALLATION OF PROPOSED ANTENNAS, COAX CABLES AND REQUIRED HARDWARE. COPY OF STRUCTURAL ANALYSIS TO BE SENT TO DESIGN ENGINEER.
 5. CONTRACTOR SHALL FIELD VERIFY SCOPE OF WORK, VERIZON WIRELESS ANTENNA MOUNT LOCATION AND ANTENNAS TO BE INSTALLED.
 6. CONTRACTOR SHALL NOTIFY ENGINEERS IF FIELD CONDITIONS DIFFER FROM DESIGN.
 7. RAD CENTERS MEASURE IN THE FIELD WITH LASER BY HDG. RAD CENTERS MAY NOT MATCH RF ANTENNA DESIGN SHEET.



PREPARED FOR:

verizon

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HDG
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(CIVIL)

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SHEET TITLE
ROOF PLAN
(PROPOSED
CONDITION)

SHEET NUMBER
A-6

FIELD INSPECTION DATE: 09-24-2019

NOTE:

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DATED: FEBRUARY 11, 2020 (REV.3)

PROPOSED ANTENNA INFORMATION

SECTOR	STATUS	AZIMUTH	CABLE LENGTH
ALPHA	PROPOSED	50°	190'
BETA	PROPOSED/EXISTING	200°	190'
GAMMA	PROPOSED	300°	240'

NOTE: CABLE LENGTH = EXACT LENGTH PLUS 25'.
CONTRACTOR TO VERIFY CABLE LENGTH PRIOR TO ORDERING.

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SITE NAME:
NEWPORT SOUTH RI

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NEWPORT, RI 02840

SHEET TITLE
WEST ELEVATION
(PROPOSED
CONDITION)

SHEET NUMBER

A-7

HIGHEST APPURTENANCE
(EXISTING RAILING)

ELEV. = 81'-0"± (AGL)
140'-0"± (AMSL)

TOP OF PROPOSED/EXISTING
VERIZON ANTENNAS
(ALPHA & BETA SECTORS)

ELEV. = 73'-0"± (AGL)
132'-0"± (AMSL)

CL OF PROPOSED/EXISTING
VERIZON ANTENNAS
(ALPHA & BETA SECTORS)

ELEV. = 70'-0"± (AGL)
129'-0"± (AMSL)

TOP OF PROPOSED VERIZON
ANTENNAS (GAMMA SECTOR)

ELEV. = 65'-10"± (AGL)
124'-10"± (AMSL)

TOP OF EXISTING MAIN ROOF

ELEV. = 65'-0"± (AGL)
124'-0"± (AMSL)

CL OF PROPOSED VERIZON
ANTENNAS (GAMMA SECTOR)

ELEV. = 63'-10"± (AGL)
122'-10"± (AMSL)

TOP OF EXISTING LOWER ROOF

ELEV. = 61'-6"± (AGL)
120'-6"± (AMSL)

GRADE
ELEV. = 0'-0"± (AGL)
59'-0"± (AMSL)

EXISTING BUILDING

PROPOSED VERIZON ANTENNA PER 'RF'
ON PROPOSED PIPE MAST ON CUPOLA

PROPOSED SIDE-BY-SIDE ANTENNA
MOUNT PER 'RF'

PROPOSED RRH'S & JUNCTION BOX PER 'RF'
ON PROPOSED 3'-0" HIGH RRH BALLAST MOUNT

EXISTING CHIMNEY (TYP.)

EXISTING RAILING (TYP.)

ALPHA &
BETA
SECTORS

GAMMA SECTOR

APPROXIMATE LOCATION OF EXISTING
VERIZON LEASE AREA IN BASEMENT

WEST ELEVATION
(PROPOSED CONDITION)

22x34 SCALE: 1/8"=1'-0"
11x17 SCALE: 1/16"=1'-0"

1
A-7

GRAPHIC SCALE
0 4 8 16 24 FEET

NOTE:

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GAMMA	PROPOSED	300°	240'

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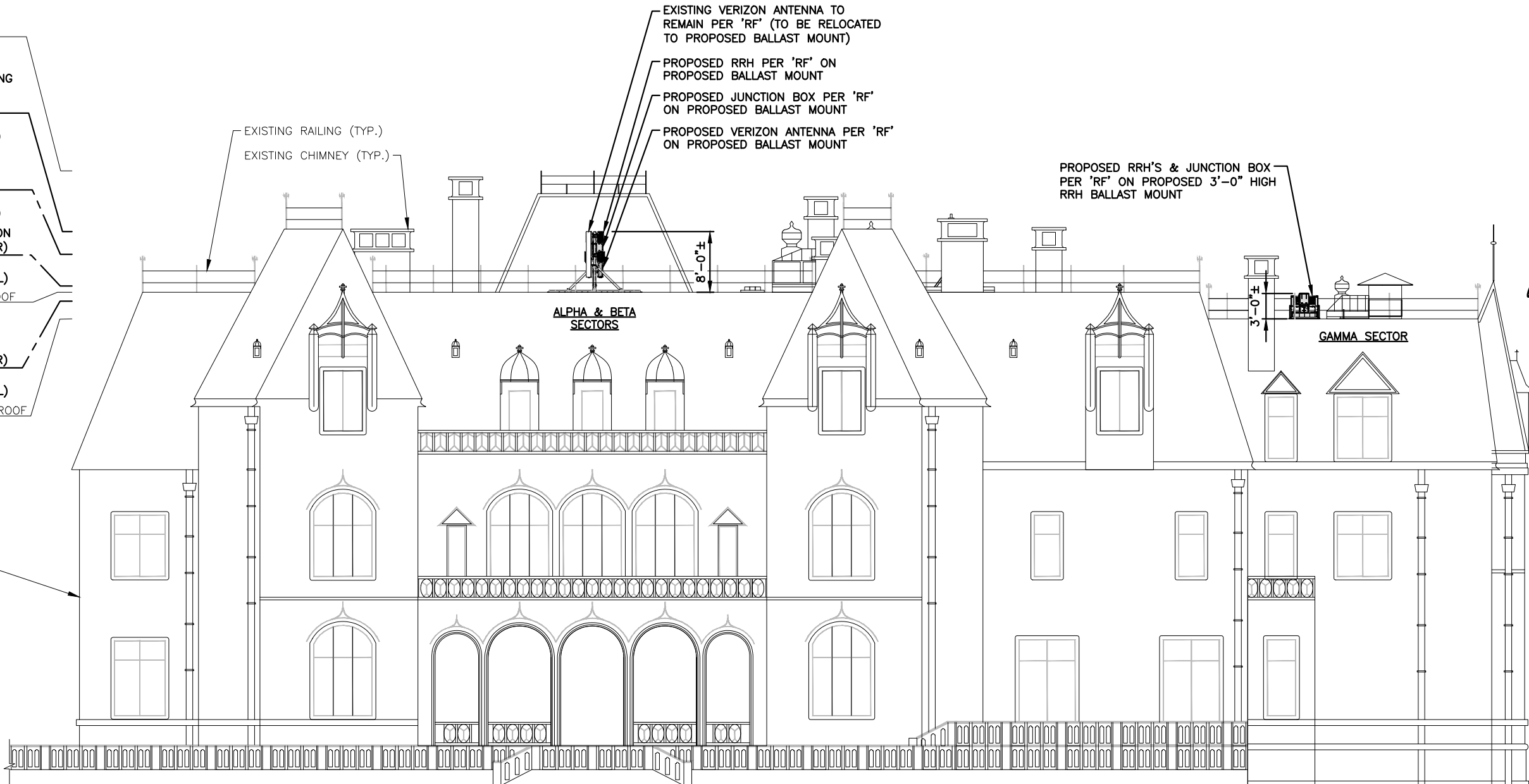
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SHEET TITLE
EAST ELEVATION
(PROPOSED
CONDITION)

SHEET NUMBER

A-8

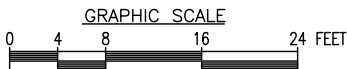
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(EXISTING RAILING)
ELEV. = 81'-0"± (AGL)
140'-0"± (AMSL)
- TOP OF PROPOSED/EXISTING
VERIZON ANTENNAS
(ALPHA & BETA SECTORS)
ELEV. = 73'-0"± (AGL)
132'-0"± (AMSL)
- CL OF PROPOSED/EXISTING
VERIZON ANTENNAS
(ALPHA & BETA SECTORS)
ELEV. = 70'-0"± (AGL)
129'-0"± (AMSL)
- TOP OF PROPOSED VERIZON
ANTENNAS (GAMMA SECTOR)
ELEV. = 65'-10"± (AGL)
124'-10"± (AMSL)
- TOP OF EXISTING MAIN ROOF
ELEV. = 65'-0"± (AGL)
124'-0"± (AMSL)
- CL OF PROPOSED VERIZON
ANTENNAS (GAMMA SECTOR)
ELEV. = 63'-10"± (AGL)
122'-10"± (AMSL)
- TOP OF EXISTING LOWER ROOF
ELEV. = 61'-6"± (AGL)
120'-6"± (AMSL)



EAST ELEVATION
(PROPOSED CONDITION)

22x34 SCALE: 1/8"=1'-0"
11x17 SCALE: 1/16"=1'-0"

1
A-8



NOTE:

AN ANALYSIS OF THE CAPACITY OF THE EXISTING STRUCTURE TO SUPPORT THE PROPOSED LOADING HAS BEEN COMPLETED BY: HUDSON DESIGN GROUP, LLC.
DATED: FEBRUARY 11, 2020 (REV.3)

PROPOSED ANTENNA INFORMATION

SECTOR	STATUS	AZIMUTH	CABLE LENGTH
ALPHA	PROPOSED	50°	190'
BETA	PROPOSED/EXISTING	200°	190'
GAMMA	PROPOSED	300°	240'

NOTE: CABLE LENGTH = EXACT LENGTH PLUS 25'.
CONTRACTOR TO VERIFY CABLE LENGTH PRIOR TO ORDERING.

PREPARED FOR:

verizon

118 FLANDERS ROAD
WESTBOROUGH, MA 01581

HDG
HUDSON
Design Group LLC

45 BEECHWOOD DRIVE
N. ANDOVER, MA 01845
TEL: (978) 557-5553
FAX: (978) 336-5586

DANIEL P. HAMM

No. 8135
REGISTERED
PROFESSIONAL ENGINEER
(CIVIL)

CONSTRUCTION DRAWINGS VALID FOR SIX MONTHS AFTER ENGINEER OF RECORD'S STAMPED AND SIGNED SUBMITTAL DATE LISTED HEREIN

CHECKED BY: JX

APPROVED BY: DPH

SUBMITTALS

REV.	DATE	DESCRIPTION	BY
5	02/08/21	REVISED PER COMMENTS	OS
4	01/06/21	ADDED ELEVATIONS	OS
3	11/09/20	MOVED RRH'S	OS
2	02/25/20	REVISED PER COMMENTS	SF
1	01/31/20	REVISED PER COMMENTS	OS
0	11/22/19	FOR CONSTRUCTION	OS

SITE NAME:
NEWPORT SOUTH RI

SITE ADDRESS:
16 OCHRE POINT AVENUE
NEWPORT, RI 02840

SHEET TITLE
NORTH ELEVATION
(PROPOSED
CONDITION)

SHEET NUMBER
A-9

HIGHEST APPURTENANCE
(EXISTING RAILING)

ELEV. = 81'-0"± (AGL)
140'-0"± (AMSL)

TOP OF PROPOSED/EXISTING
VERIZON ANTENNAS
(ALPHA & BETA SECTORS)

ELEV. = 73'-0"± (AGL)
132'-0"± (AMSL)

CL OF PROPOSED/EXISTING
VERIZON ANTENNAS
(ALPHA & BETA SECTORS)

ELEV. = 70'-0"± (AGL)
129'-0"± (AMSL)

TOP OF PROPOSED VERIZON
ANTENNAS (GAMMA SECTOR)

ELEV. = 65'-10"± (AGL)
124'-10"± (AMSL)

TOP OF EXISTING MAIN ROOF

ELEV. = 65'-0"± (AGL)
124'-0"± (AMSL)

CL OF PROPOSED VERIZON
ANTENNAS (GAMMA SECTOR)

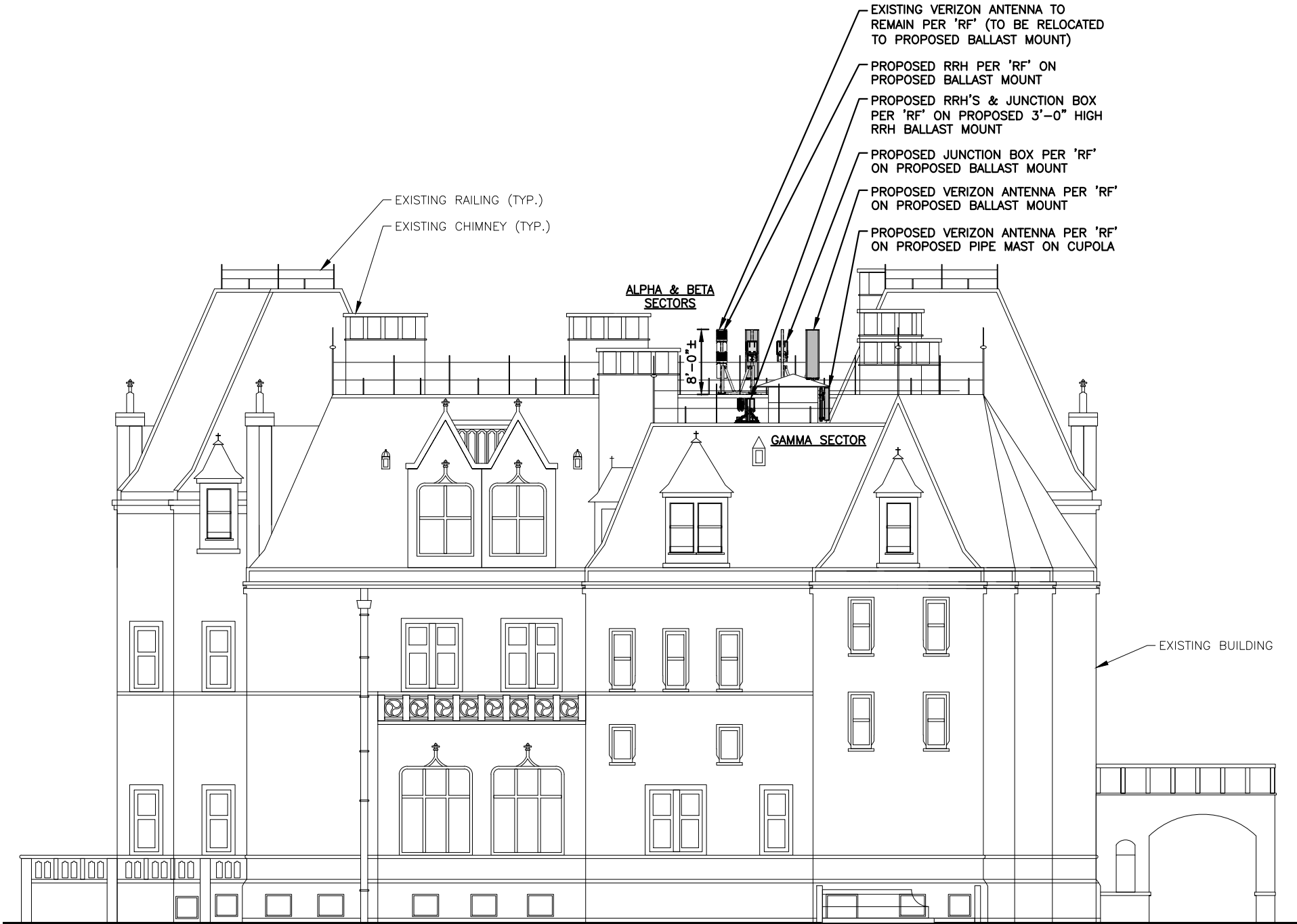
ELEV. = 63'-10"± (AGL)
122'-10"± (AMSL)

TOP OF EXISTING LOWER ROOF

ELEV. = 61'-6"± (AGL)
120'-6"± (AMSL)

GRADE

ELEV. = 0'-0"± (AGL)
59'-0"± (AMSL)



NORTH ELEVATION
(PROPOSED CONDITION)

22x34 SCALE: 1/8"=1'-0"
11x17 SCALE: 1/16"=1'-0"

1
A-9

GRAPHIC SCALE
0 4 8 16 24 FEET

NOTE:

AN ANALYSIS OF THE CAPACITY OF THE EXISTING STRUCTURE TO SUPPORT THE PROPOSED LOADING HAS BEEN COMPLETED BY: HUDSON DESIGN GROUP, LLC.
DATED: FEBRUARY 11, 2020 (REV.3)

PROPOSED ANTENNA INFORMATION

SECTOR	STATUS	AZIMUTH	CABLE LENGTH
ALPHA	PROPOSED	50°	190'
BETA	PROPOSED/EXISTING	200°	190'
GAMMA	PROPOSED	300°	240'

NOTE: CABLE LENGTH = EXACT LENGTH PLUS 25'.
CONTRACTOR TO VERIFY CABLE LENGTH PRIOR TO ORDERING.

PREPARED FOR:

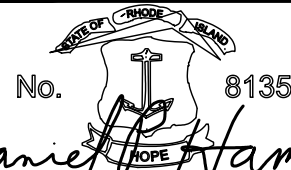
verizon

118 FLANDERS ROAD
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DANIEL P. HAMM



REGISTERED
PROFESSIONAL ENGINEER

CONSTRUCTION DRAWINGS VALID FOR SIX MONTHS AFTER ENGINEER OF RECORD'S STAMPED AND SIGNED SUBMITTAL DATE LISTED HEREIN

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0	11/22/19	FOR CONSTRUCTION	OS

SITE NAME:
NEWPORT SOUTH RI

SITE ADDRESS:
16 OCHRE POINT AVENUE
NEWPORT, RI 02840

SHEET TITLE
SOUTH ELEVATION
(PROPOSED
CONDITION)

SHEET NUMBER
A-10

- HIGHEST APPURTENANCE
(EXISTING RAILING)
ELEV. = 81'-0"± (AGL)
140'-0"± (AMSL)
- TOP OF PROPOSED/EXISTING
VERIZON ANTENNAS
(ALPHA & BETA SECTORS)
ELEV. = 73'-0"± (AGL)
132'-0"± (AMSL)
- CL OF PROPOSED/EXISTING
VERIZON ANTENNAS
(ALPHA & BETA SECTORS)
ELEV. = 70'-0"± (AGL)
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- TOP OF PROPOSED VERIZON
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ANTENNAS (GAMMA SECTOR)
ELEV. = 63'-10"± (AGL)
122'-10"± (AMSL)
- TOP OF EXISTING LOWER ROOF
ELEV. = 61'-6"± (AGL)
120'-6"± (AMSL)

- GRADE
ELEV. = 0'-0"± (AGL)
59'-0"± (AMSL)

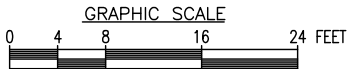
- EXISTING VERIZON ANTENNA TO
REMAIN PER 'RF' (TO BE RELOCATED
TO PROPOSED BALLAST MOUNT)
- PROPOSED VERIZON ANTENNA PER 'RF'
ON PROPOSED BALLAST MOUNT
- PROPOSED JUNCTION BOX PER 'RF'
ON PROPOSED BALLAST MOUNT
- PROPOSED RRH PER 'RF' ON
PROPOSED BALLAST MOUNT



SOUTH ELEVATION
(PROPOSED CONDITION)

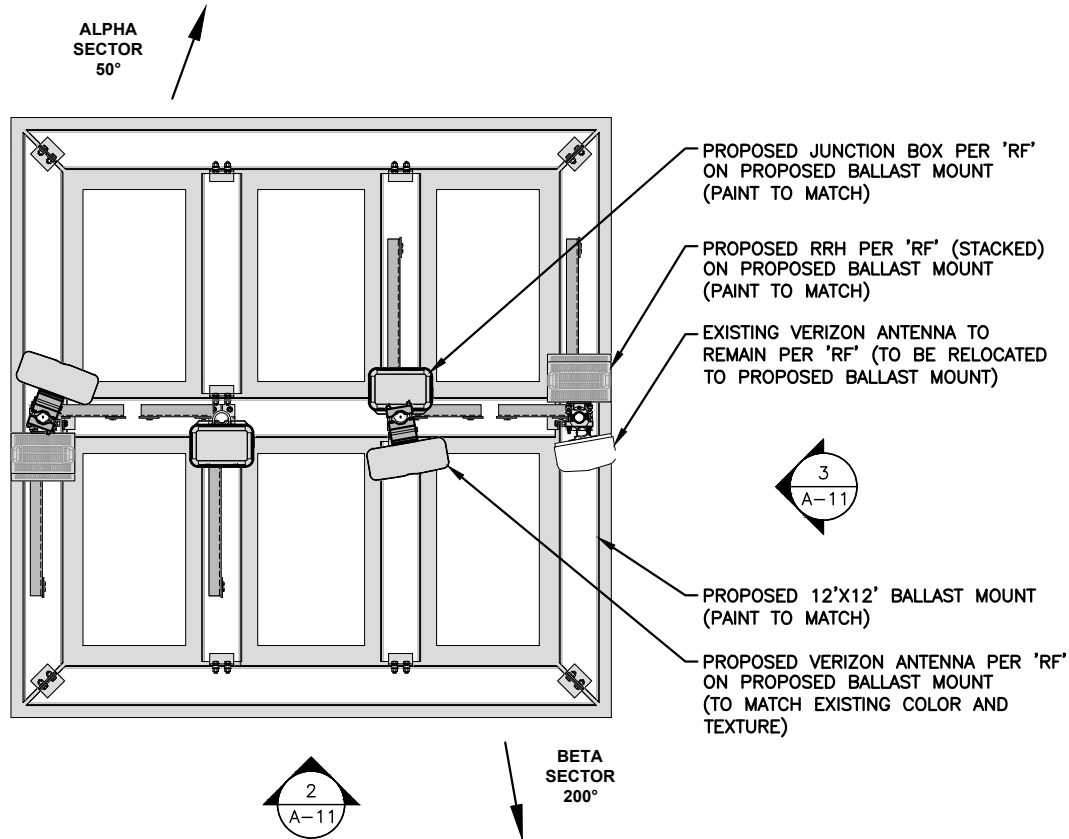
22x34 SCALE: 1/8"=1'-0"
11x17 SCALE: 1/16"=1'-0"

1
A-10



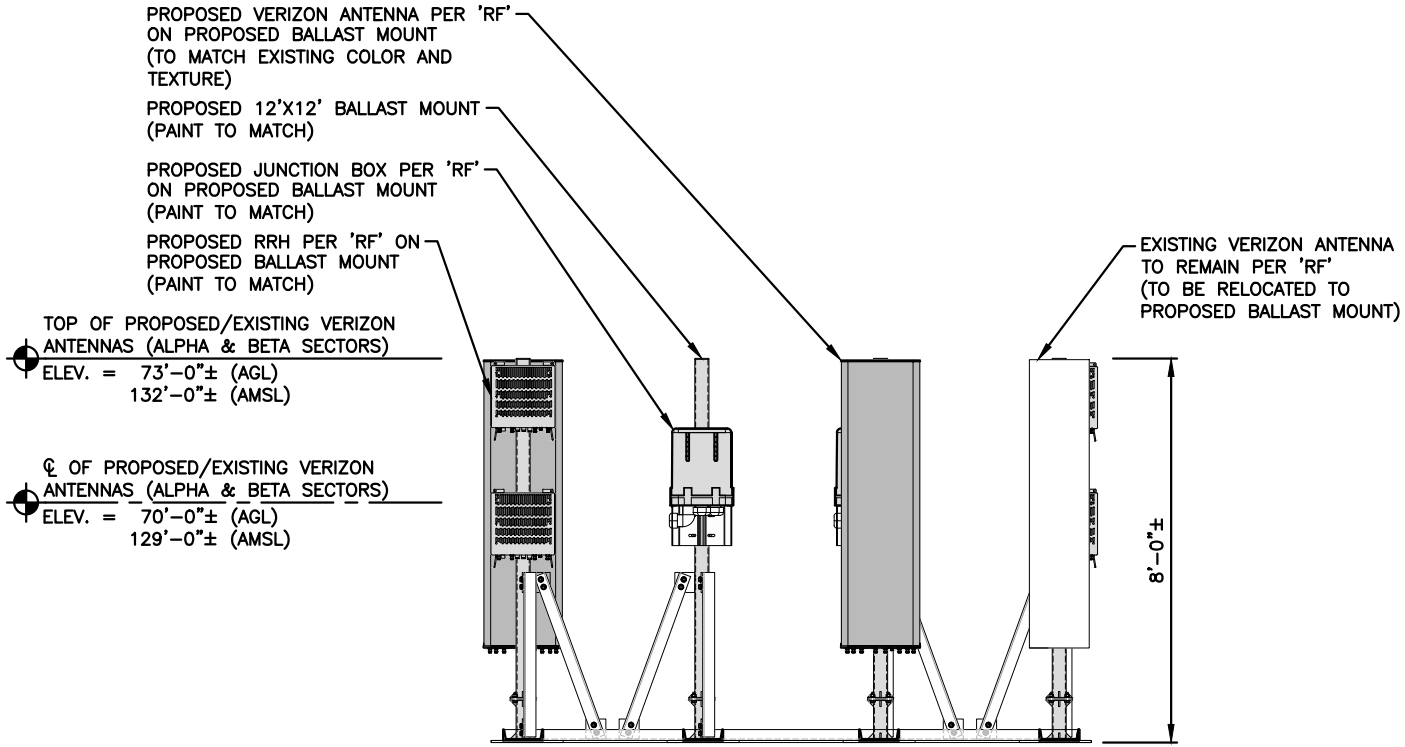
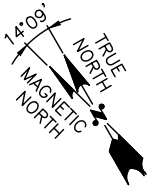
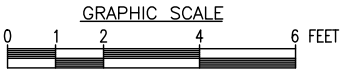
NOTE:

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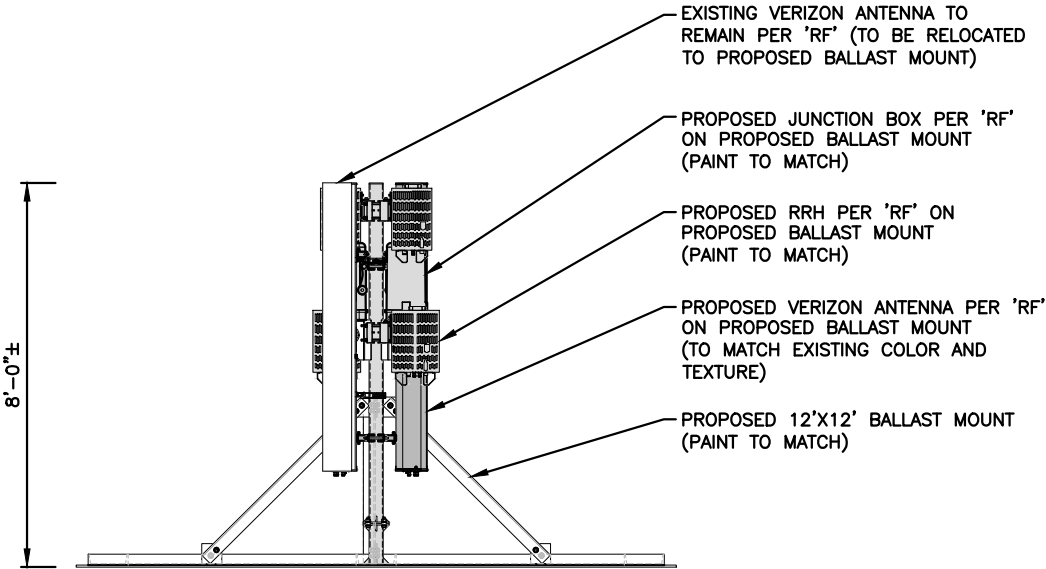
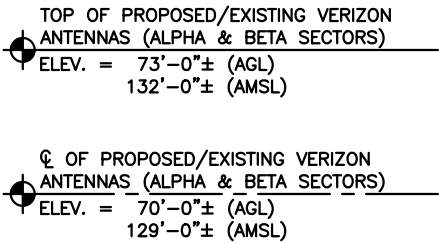
**PROPOSED ANTENNA PLAN
(ALPHA AND BETA SECTORS)**

22x34 SCALE: 1/2"=1'-0"
11x17 SCALE: 1/4"=1'-0"



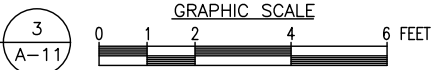
**PROPOSED ANTENNA ELEVATION
(ALPHA AND BETA SECTORS)**

22x34 SCALE: 1/2"=1'-0"
11x17 SCALE: 1/4"=1'-0"



**PROPOSED ANTENNA ELEVATION
(ALPHA AND BETA SECTORS)**

22x34 SCALE: 1/2"=1'-0"
11x17 SCALE: 1/4"=1'-0"



PREPARED FOR:

verizon

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DANIEL P. HAMM

No. 8135

Daniel P. Hamm

**REGISTERED
PROFESSIONAL ENGINEER**

CONSTRUCTION DRAWINGS VALID FOR SIX MONTHS AFTER ENGINEER OF RECORD'S STAMPED AND SIGNED SUBMITTAL DATE LISTED HEREIN

CHECKED BY: JX

APPROVED BY: DPH

SUBMITTALS

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SITE NAME:
NEWPORT SOUTH RI

SITE ADDRESS:
16 OCHRE POINT AVENUE
NEWPORT, RI 02840

SHEET TITLE
**PROPOSED ANTENNA
PLAN & ELEVATIONS**

SHEET NUMBER

A-11

STRUCTURAL NOTES:

1. DESIGN REQUIREMENTS ARE PER STATE BUILDING CODE AND APPLICABLE SUPPLEMENTS, INTERNATIONAL BUILDING CODE, EIA/TIA-222-G STRUCTURAL STANDARDS FOR STEEL ANTENNA, TOWERS AND ANTENNA SUPPORTING STRUCTURES.
2. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS IN THE FIELD PRIOR TO FABRICATION AND ERECTION OF ANY MATERIAL. ANY UNUSUAL CONDITIONS SHALL BE REPORTED TO THE ATTENTION OF THE CONSTRUCTION MANAGER AND ENGINEER OF RECORD.
3. DESIGN AND CONSTRUCTION OF STRUCTURAL STEEL SHALL CONFORM TO THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION "SPECIFICATION FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS".
4. STRUCTURAL STEEL SHALL CONFORM TO ASTM A992 (Fy=50 ksi), MISCELLANEOUS STEEL SHALL CONFORM TO ASTM A36 UNLESS OTHERWISE INDICATED.
5. STEEL PIPE SHALL CONFORM TO ASTM A500 "COLD-FORMED WELDED & SEAMLESS CARBON STEEL STRUCTURAL TUBING", GRADE B, OR ASTM A53 PIPE STEEL BLACK AND HOT-DIPPED ZINC-COATED WELDED AND SEAMLESS TYPE E OR S, GRADE B. PIPE SIZES INDICATED ARE NOMINAL. ACTUAL OUTSIDE DIAMETER IS LARGER.
6. STRUCTURAL CONNECTION BOLTS SHALL BE HIGH STRENGTH BOLTS (BEARING TYPE) AND CONFORM TO ASTM A325 TYPE-X "HIGH STRENGTH BOLTS FOR STRUCTURAL JOINTS, INCLUDING SUITABLE NUTS AND PLAIN HARDENED WASHERS". ALL BOLTS SHALL BE 3/4" DIA UON.
7. ALL STEEL MATERIALS SHALL BE GALVANIZED AFTER FABRICATION IN ACCORDANCE WITH ASTM A123 "ZINC (HOT-DIP GALVANIZED) COATINGS ON IRON AND STEEL PRODUCTS", UNLESS OTHERWISE NOTED.
8. ALL BOLTS, ANCHORS AND MISCELLANEOUS HARDWARE SHALL BE GALVANIZED IN ACCORDANCE WITH ASTM A153 "ZINC-COATING (HOT-DIP) ON IRON AND STEEL HARDWARE", UNLESS OTHERWISE NOTED.
9. FIELD WELDS, DRILL HOLES, SAW CUTS AND ALL DAMAGED GALVANIZED SURFACES SHALL BE REPAIRED WITH AN ORGANIC ZINC REPAIR PAINT COMPLYING WITH REQUIREMENTS OF ASTM A780. GALVANIZING REPAIR PAINT SHALL HAVE 65 PERCENT ZINC BY WEIGHT, ZIRP BY DUNCAN GALVANIZING, GALVA BRIGHT PREMIUM BY CROWN OR EQUAL. THICKNESS OF APPLIED GALVANIZING REPAIR PAINT SHALL BE NOT NOT LESS THAN 4 COATS (ALLOW TIME TO DRY BETWEEN COATS) WITH A RESULTING COATING THICKNESS REQUIRED BY ASTM A123 OR A153 AS APPLICABLE.
10. CONTRACTOR SHALL COMPLY WITH AWS CODE FOR PROCEDURES, APPEARANCE AND QUALITY OF WELDS, AND FOR METHODS USED IN CORRECTING WELDING. ALL WELDERS AND WELDING PROCESSES SHALL BE QUALIFIED IN ACCORDANCE WITH AWS "STANDARD QUALIFICATION PROCEDURES". ALL WELDING SHALL BE DONE USING E70XX ELECTRODES AND WELDING SHALL CONFORM TO AISC AND D.I.I. WHERE FILLET WELD SIZES ARE NOT SHOWN, PROVIDE THE MINIMUM SIZE PER TABLE J2.4 IN THE AISC "STEEL CONSTRUCTION MANUAL". 14TH EDITION.
11. INCORRECTLY FABRICATED, DAMAGED OR OTHERWISE MISFITTING OR NON-CONFORMING MATERIALS OR CONDITIONS SHALL BE REPORTED TO THE CONSTRUCTION MANAGER PRIOR TO REMEDIAL OR CORRECTIVE ACTION. ANY SUCH ACTION SHALL REQUIRE CONSTRUCTION MANAGER APPROVAL.
12. UNISTRUT SHALL BE FORMED STEEL CHANNEL STRUT FRAMING AS MANUFACTURED BY UNISTRUT CORP., WAYNE, MI OR EQUAL. STRUT MEMBERS SHALL BE 1 5/8"x1 5/8"x12GA, UNLESS OTHERWISE NOTED, AND SHALL BE HOT-DIP GALVANIZED AFTER FABRICATION.
13. EPOXY ANCHOR ASSEMBLY SHALL CONSIST OF STAINLESS STEEL ANCHOR ROD WITH NUTS & WASHERS. AN INTERNALLY THREADED INSERT, A SCREEN TUBE AND A EPOXY ADHESIVE. THE ANCHORING SYSTEM SHALL BE THE HILTI-HIT HY-270 AND OR HY-200 SYSTEMS (AS SPECIFIED IN DWG.) OR ENGINEERS APPROVED EQUAL.
14. EXPANSION BOLTS SHALL CONFORM TO FEDERAL SPECIFICATION FF-S-325, GROUP II, TYPE 4, CLASS I, HILTI KWIK BOLT III OR APPROVED EQUAL. INSTALLATION SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.
15. LUMBER SHALL COMPLY WITH THE REQUIREMENTS OF THE AMERICAN INSTITUTE OF TIMBER CONSTRUCTION AND THE NATIONAL FOREST PRODUCTS ASSOCIATION'S NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION. ALL LUMBER SHALL BE PRESSURE TREATED AND SHALL BE STRUCTURAL GRADE NO. 2 OR BETTER.
16. WHERE ROOF PENETRATIONS ARE REQUIRED, THE CONTRACTOR SHALL CONTACT AND COORDINATE RELATED WORK WITH THE BUILDING OWNER AND THE EXISTING ROOF INSTALLER. WORK SHALL BE PERFORMED IN SUCH A MANNER AS TO NOT VOID THE EXISTING ROOF WARRANTY. ROOF SHALL BE WATERTIGHT.
17. ALL FIBERGLASS MEMBERS USED ARE AS MANUFACTURED BY STRONGWELL COMPANY OF BRISTOL, VA 24203. ALL DESIGN CRITERIA FOR THESE MEMBERS IS BASED ON INFORMATION PROVIDED IN THE DESIGN MANUAL. ALL REQUIREMENTS PUBLISHED IN SAID MANUAL MUST BE STRICTLY ADHERED TO.
18. NO MATERIALS TO BE ORDERED AND NO WORK TO BE COMPLETED UNTIL SHOP DRAWINGS HAVE BEEN REVIEWED AND APPROVED IN WRITING.
19. SUBCONTRACTOR SHALL FIREPROOF ALL STEEL TO PRE-EXISTING CONDITIONS.

SPECIAL INSPECTIONS (REFERENCE IBC CHAPTER 17):

GENERAL: WHERE APPLICATION IS MADE FOR CONSTRUCTION, THE OWNER OR THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE ACTING AS THE OWNER'S AGENT SHALL EMPLOY ONE OR MORE APPROVED AGENCIES TO PERFORM INSPECTIONS DURING CONSTRUCTION ON THE TYPES OF WORK LISTED IN THE INSPECTION CHECKLIST ABOVE.

THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE AND ENGINEERS OF RECORD INVOLVED IN THE DESIGN OF THE PROJECT ARE PERMITTED TO ACT AS THE APPROVED AGENCY AND THEIR PERSONNEL ARE PERMITTED TO ACT AS THE SPECIAL INSPECTOR FOR THE WORK DESIGNED BY THEM, PROVIDED THOSE PERSONNEL MEET THE QUALIFICATION REQUIREMENTS.

STATEMENT OF SPECIAL INSPECTIONS: THE APPLICANT SHALL SUBMIT A STATEMENT OF SPECIAL INSPECTIONS PREPARED BY THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE IN ACCORDANCE WITH SECTION 107.1 AS A CONDITION FOR ISSUANCE. THIS STATEMENT SHALL BE IN ACCORDANCE WITH SECTION 1705.

REPORT REQUIREMENT: SPECIAL INSPECTORS SHALL KEEP RECORDS OF INSPECTIONS. THE SPECIAL INSPECTOR SHALL FURNISH INSPECTION REPORTS TO THE BUILDING OFFICIAL, AND TO THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE. REPORTS SHALL INDICATE THAT WORK INSPECTED WAS OR WAS NOT COMPLETED IN CONFORMANCE TO APPROVED CONSTRUCTION DOCUMENTS. DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE CONTRACTOR FOR CORRECTION. IF THEY ARE NOT CORRECTED, THE DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE BUILDING OFFICIAL AND TO THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE. A FINAL REPORT DOCUMENTING REQUIRED SPECIAL INSPECTIONS SHALL BE SUBMITTED.

SPECIAL INSPECTION CHECKLIST	
BEFORE CONSTRUCTION	
CONSTRUCTION/INSTALLATION INSPECTIONS AND TESTING REQUIRED (COMPLETED BY ENGINEER OF RECORD)	REPORT ITEM
REQUIRED	ENGINEER OF RECORD APPROVED SHOP DRAWINGS ¹
REQUIRED	MATERIAL SPECIFICATIONS REPORT ²
N/A	FABRICATOR NDE INSPECTION
REQUIRED	PACKING SLIPS ³
ADDITIONAL TESTING AND INSPECTIONS:	
DURING CONSTRUCTION	
CONSTRUCTION/INSTALLATION INSPECTIONS AND TESTING REQUIRED (COMPLETED BY ENGINEER OF RECORD)	REPORT ITEM
REQUIRED	STEEL INSPECTIONS
N/A	HIGH STRENGTH BOLT INSPECTIONS
N/A	HIGH WIND ZONE INSPECTIONS ⁴
N/A	FOUNDATION INSPECTIONS
N/A	CONCRETE COMP. STRENGTH, SLUMP TESTS AND PLACEMENT
N/A	POST INSTALLED ANCHOR VERIFICATION ⁵
N/A	GROUT VERIFICATION
N/A	CERTIFIED WELD INSPECTION
N/A	EARTHWORK: LIFT AND DENSITY
N/A	ON SITE COLD GALVANIZING VERIFICATION
N/A	GUY WIRE TENSION REPORT
ADDITIONAL TESTING AND INSPECTIONS:	
AFTER CONSTRUCTION	
CONSTRUCTION/INSTALLATION INSPECTIONS AND TESTING REQUIRED (COMPLETED BY ENGINEER OF RECORD)	REPORT ITEM
REQUIRED	MODIFICATION INSPECTOR REDLINE OR RECORD DRAWINGS ⁶
N/A	POST INSTALLED ANCHOR PULL-OUT TESTING
REQUIRED	PHOTOGRAPHS
ADDITIONAL TESTING AND INSPECTIONS:	

NOTES:

1. REQUIRED FOR ANY NEW SHOP FABRICATED FRP OR STEEL.

2. PROVIDED BY MANUFACTURER, REQUIRED IF HIGH STRENGTH BOLTS OR STEEL.

3. PROVIDED BY GENERAL CONTRACTOR; PROOF OF MATERIALS.

4. HIGH WIND ZONE INSPECTION CATB 120MPH OR CAT C,D 110MPH INSPECT FRAMING OF WALLS, ANCHORING, FASTENING SCHEDULE.

5. ADHESIVE FOR REBAR AND ANCHORS SHALL HAVE BEEN TESTED IN ACCORDANCE WITH ACI 355.4 AND ICC-ES AC308 FOR CRACKED CONCRETE AND SEISMIC APPLICATIONS. DESIGN ADHESIVE BOND STRENGTH HAS BEEN BASED ON ACI 355.4 TEMPERATURE CATEGORY B WITH INSTALLATIONS INTO DRY HOLES DRILLED USING A CARBIDE BIT INTO CRACKED CONCRETE THAT HAS CURED FOR AT LEAST 21 DAYS. ADHESIVE ANCHORS REQUIRING CERTIFIED INSTALLATIONS SHALL BE INSTALLED BY A CERTIFIED ADHESIVE ANCHOR INSTALLER PER ACI 318-11 D.9.2.2. INSTALLATIONS REQUIRING CERTIFIED INSTALLERS SHALL BE INSPECTED PER ACI 318-11 D.8.2.4.

6. AS REQUIRED; FOR ANY FIELD CHANGES TO THE ITEMS IN THIS TABLE.

NOTES:

1. ALL CONNECTIONS TO BE SHOP WELDED & FIELD BOLTED USING 3/4"Ø A325-X BOLTS, UNLESS OTHERWISE NOTIFIED.

2. SHOP DRAWING ENGINEER REVIEW & APPROVAL REQUIRED BEFORE ORDERING MATERIAL.

3. SHOP DRAWING ENGINEER REVIEW & APPROVAL REQUIRED PRIOR TO STEEL FABRICATION.

4. VERIFICATION OF EXISTING ROOF CONSTRUCTION IS REQUIRED PRIOR TO THE INSTALLATION OF THE ROOF PLATFORM. ENGINEER OF RECORD IS TO APPROVE EXISTING CONDITIONS IN ORDER TO MOVE FORWARD.

5. CENTERLINE OF PROPOSED STEEL PLATFORM SUPPORT COLUMNS TO BE CENTRALLY LOCATED OVER THE EXISTING BUILDING COLUMNS.

6. EXISTING BRICK MASONRY COLUMNS/BEARING TO BE REPAIRED/REPLACED AT ALL PROPOSED PLATFORM SUPPORT POINTS. ENGINEER OF RECORD TO REVIEW AND APPROVE.

PREPARED FOR:

verizon

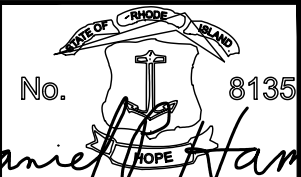
118 FLANDERS ROAD
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H
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DANIEL P. HAMM



REGISTERED
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CONSTRUCTION DRAWINGS VALID FOR SIX MONTHS AFTER ENGINEER OF RECORD'S STAMPED AND SIGNED SUBMITTAL DATE LISTED HEREIN

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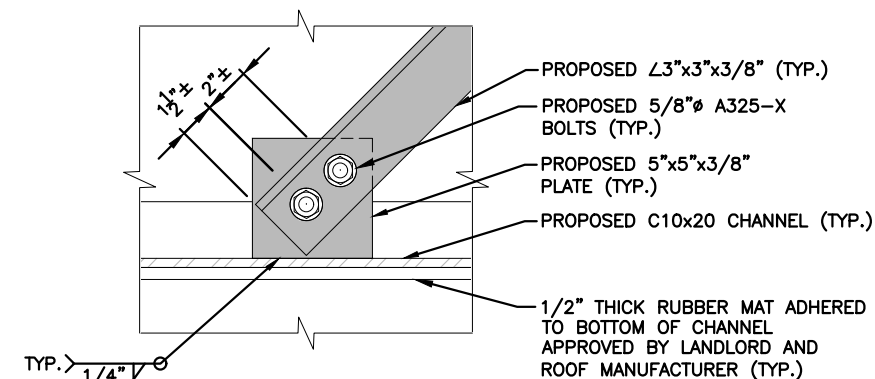
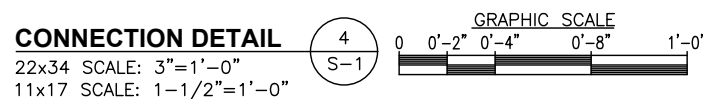
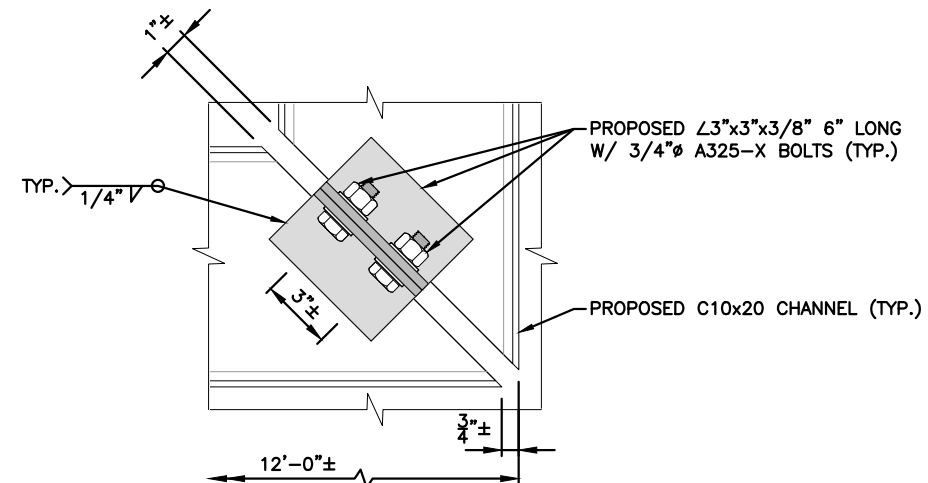
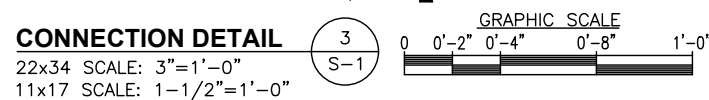
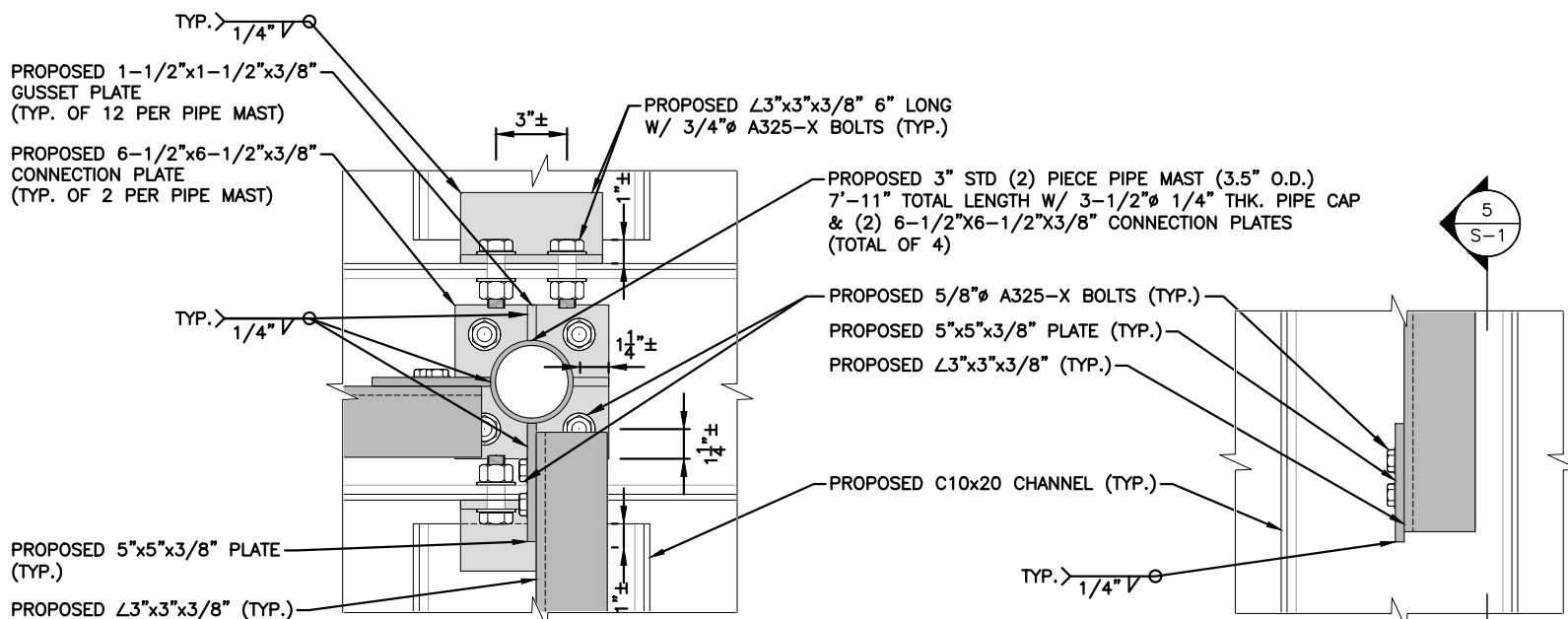
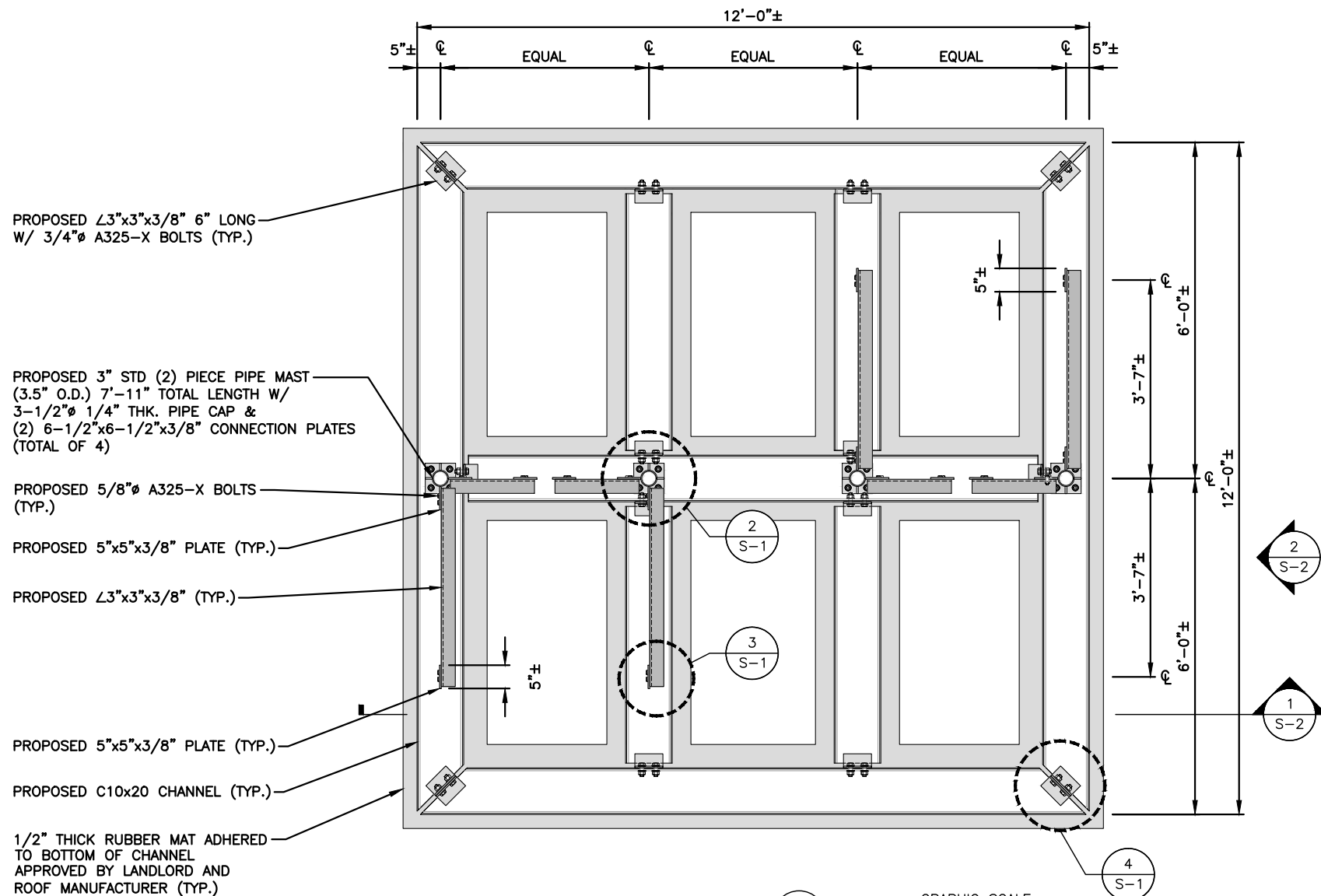
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0	11/22/19	FOR CONSTRUCTION	OS

SITE NAME:
NEWPORT SOUTH RI

SITE ADDRESS:
16 OCHRE POINT AVENUE
NEWPORT, RI 02840

SHEET TITLE
STRUCTURAL NOTES
&
SPECIAL INSPECTIONS

SHEET NUMBER
SN-1



PREPARED FOR:

verizon

118 FLANDERS ROAD
WESTBOROUGH, MA 01581

HG
HUDSON
Design Group LLC

45 BEECHWOOD DRIVE
N. ANDOVER, MA 01845
TEL: (978) 557-5553
FAX: (978) 336-5586

DANIEL P. HAMM

No. 8135
REGISTERED
PROFESSIONAL ENGINEER
(CIVIL)

CONSTRUCTION DRAWINGS VALID FOR SIX MONTHS AFTER ENGINEER OF RECORD'S STAMPED AND SIGNED SUBMITTAL DATE LISTED HEREIN

CHECKED BY: JX

APPROVED BY: DPH

SUBMITTALS

REV.	DATE	DESCRIPTION	BY
5	02/08/21	REVISED PER COMMENTS	OS
4	01/06/21	ADDED ELEVATIONS	OS
3	11/09/20	MOVED RHH'S	OS
2	02/25/20	REVISED PER COMMENTS	SF
1	01/31/20	REVISED PER COMMENTS	OS
0	11/22/19	FOR CONSTRUCTION	OS

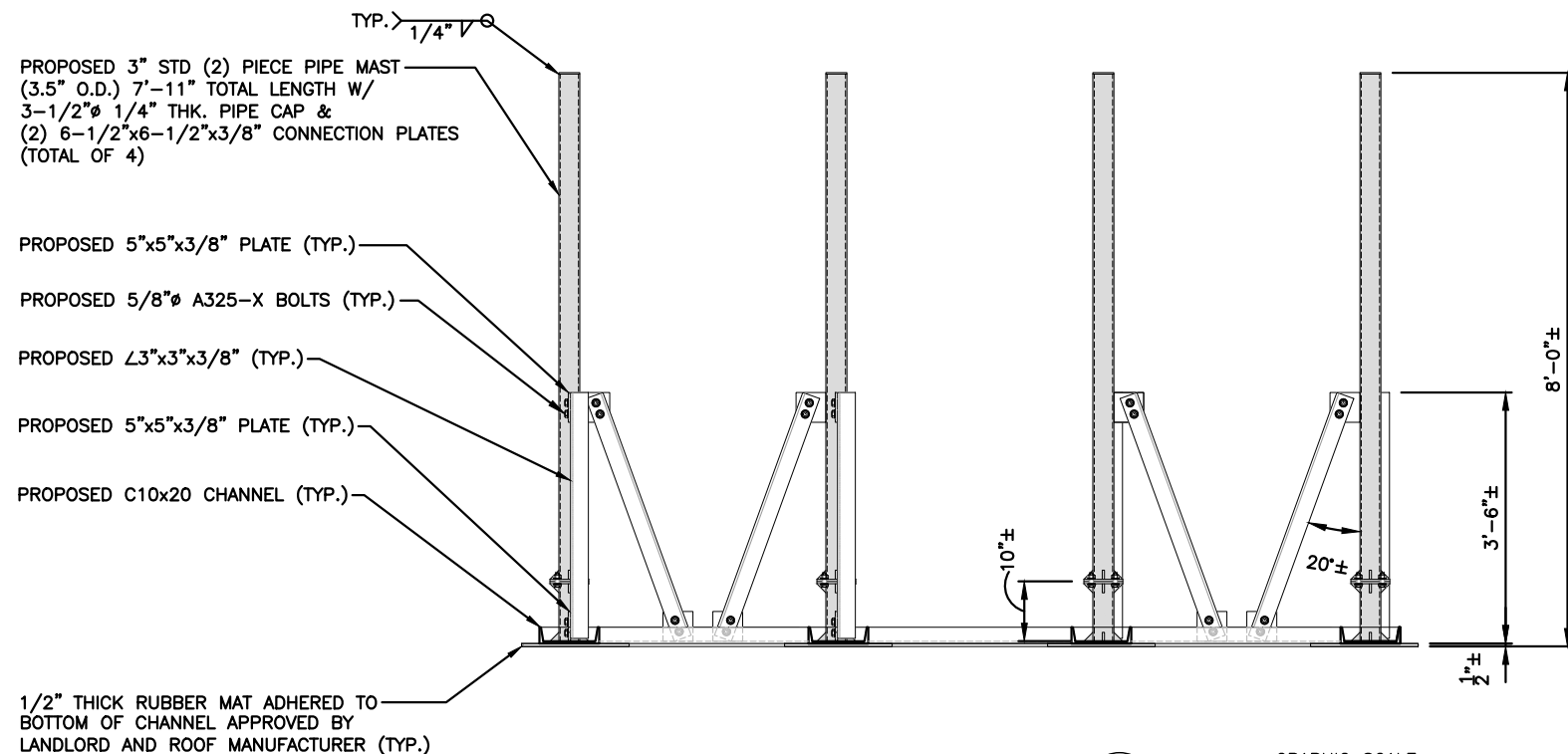
SITE NAME:
NEWPORT SOUTH RI

SITE ADDRESS:
16 OCHRE POINT AVENUE
NEWPORT, RI 02840

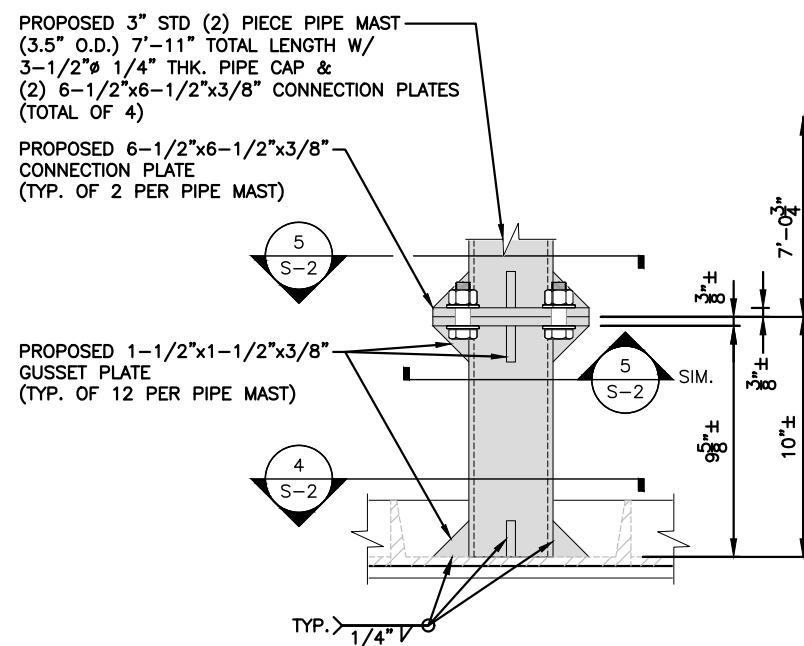
SHEET TITLE
12'X12' BALLAST
MOUNT FRAMING
PLANS & DETAILS

SHEET NUMBER

S-1

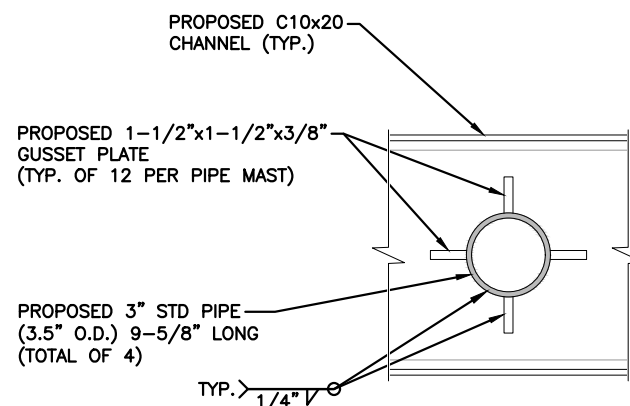
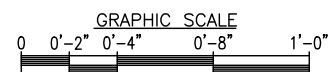


12'x12' BALLAST MOUNT - FRONT SECTION
 22x34 SCALE: 3/4"=1'-0"
 11x17 SCALE: 3/8"=1'-0"



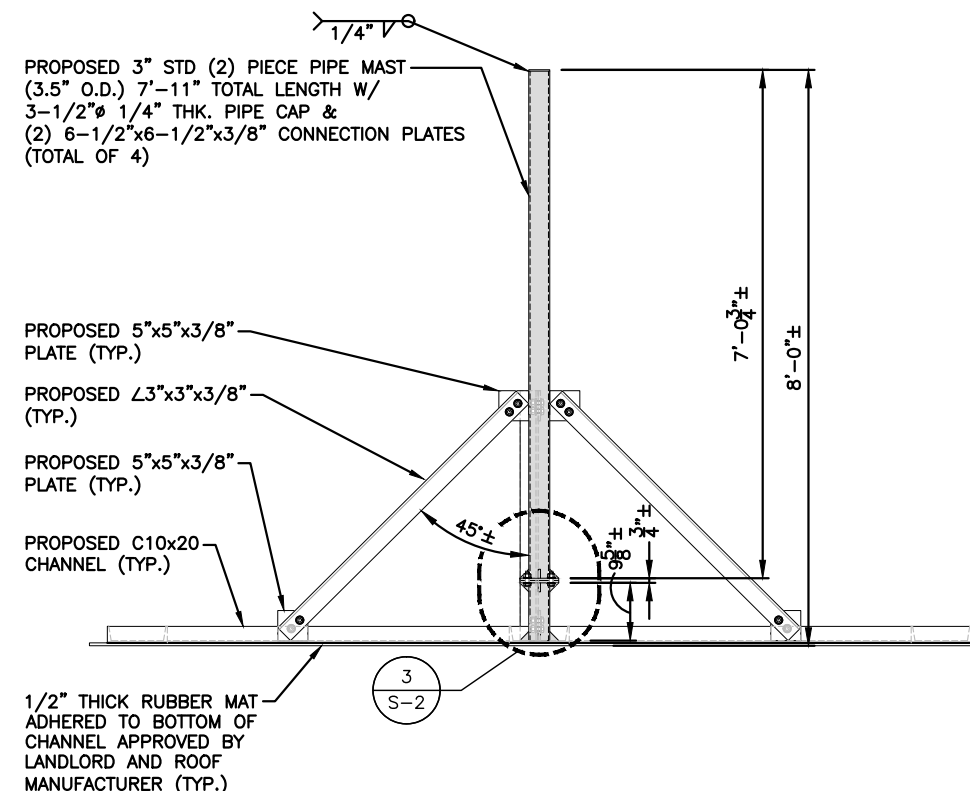
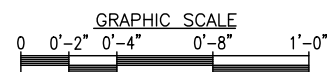
PIPE MAST CONNECTION - ELEVATION

22x34 SCALE: 3"=1'-0"
 11x17 SCALE: 1-1/2"=1'-0"



PIPE MAST CONNECTION @ BASE CHANNEL

22x34 SCALE: 3"=1'-0"
 11x17 SCALE: 1-1/2"=1'-0"

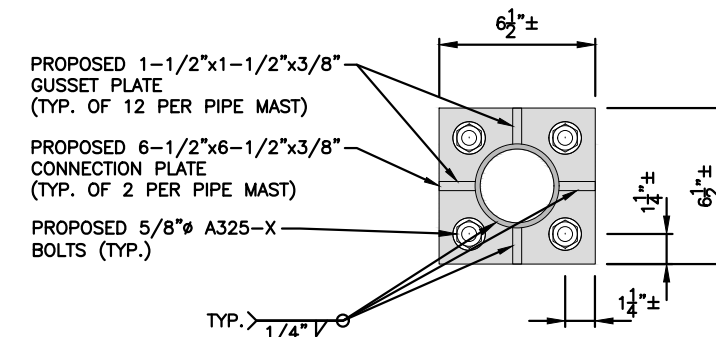


12'x12' BALLAST MOUNT - SIDE ELEVATION

22x34 SCALE: 3/4"=1'-0"
 11x17 SCALE: 3/8"=1'-0"

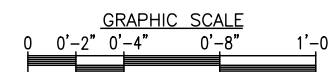


NOTE:
 PROPOSED EQUIPMENT NOT SHOWN FOR CLARITY.
 SEE SHEET A-6 FOR PROPOSED EQUIPMENT ON
 THE BALLAST MOUNT.



PIPE MAST CONNECTION POINT DETAIL

22x34 SCALE: 3"=1'-0"
 11x17 SCALE: 1-1/2"=1'-0"



PREPARED FOR:

verizon

118 FLANDERS ROAD
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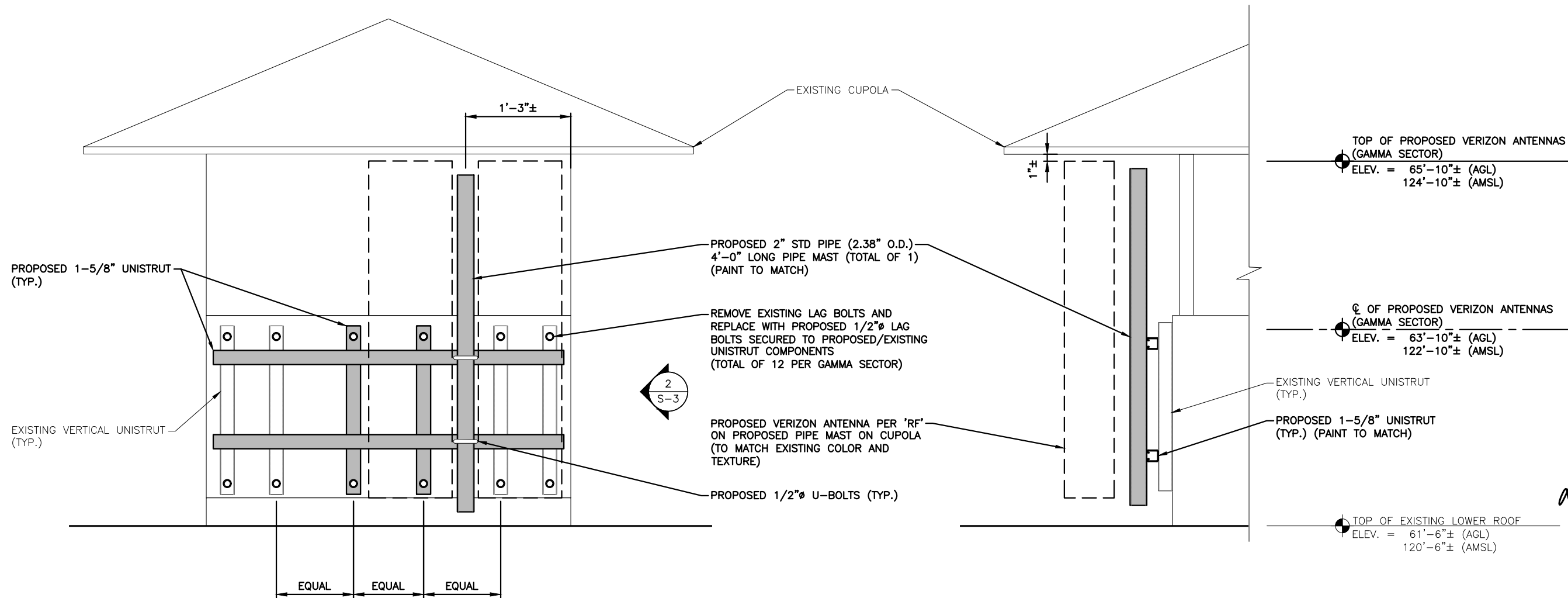
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SHEET TITLE
**12'X12' BALLAST
 MOUNT FRAMING
 SECTION & DETAILS**

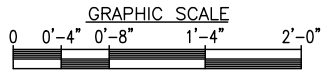
SHEET NUMBER
S-2



**PIPE MAST SUPPORT ELEVATION
(GAMMA SECTOR)**

22x34 SCALE: 1-1/2"=1'-0"
11x17 SCALE: 3/4"=1'-0"

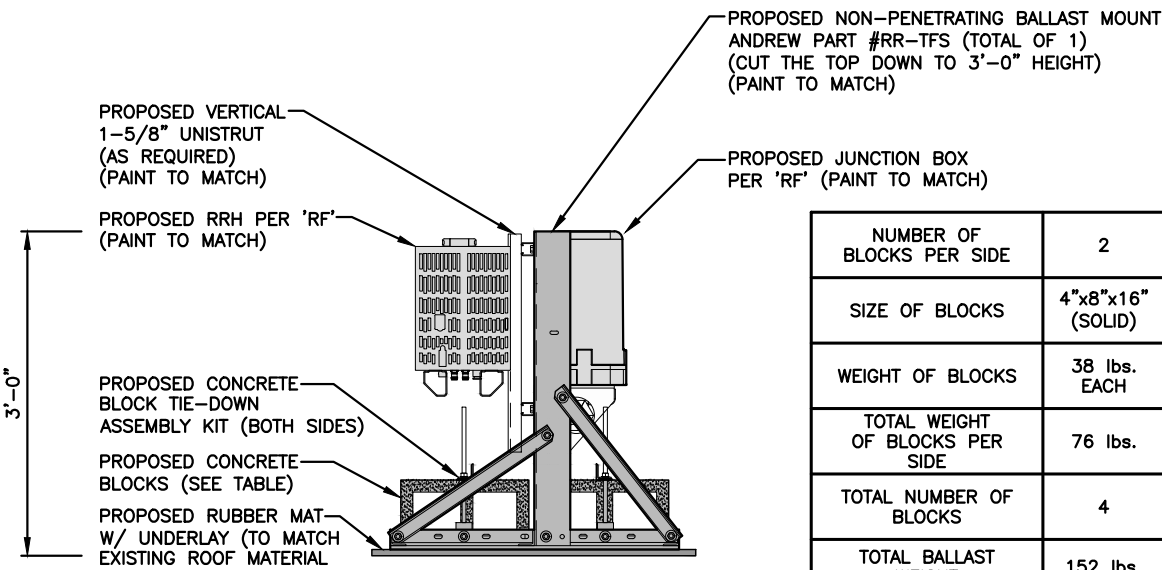
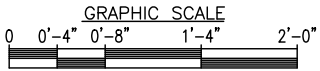
1
S-3



**PIPE MAST SUPPORT SECTION
(GAMMA SECTOR)**

22x34 SCALE: 1-1/2"=1'-0"
11x17 SCALE: 3/4"=1'-0"

2
S-3



NUMBER OF BLOCKS PER SIDE	2
SIZE OF BLOCKS	4"x8"x16" (SOLID)
WEIGHT OF BLOCKS	38 lbs. EACH
TOTAL WEIGHT OF BLOCKS PER SIDE	76 lbs.
TOTAL NUMBER OF BLOCKS	4
TOTAL BALLAST WEIGHT	152 lbs.

BALLAST MOUNT EQUIPMENT DETAIL

SCALE: N.T.S

3
S-3

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