verizon

WEST NYACK, NEW YORK

WIRELESS SERVICES FACILITY

"WAINSCOTT 3"

106 STEPHEN HANDS PATH
WAINSCOTT, NY 11937

SITE INFORMATION

VZW SITE NAME: "WAINSCOTT 3"
VZW SITE PROJECT CODE: 20171584246
VZW LOCATION CODE: 446966
PROJECT LOCATION: 106 STEPHEN HANDS PATH
WAINSCOTT, NY 11937

SITE TYPE/DESCRIPTION: GROUND MOUNTED EQUIPMENT & PROP.
110'± AGL UNIPOLE WITHIN 1,353± SF FENCED
TELECOMMUNICATIONS COMPOUND.

GENERATOR INFORMATION: PROPANE-POWERED GENERATOR

TOWER OWNER: TOWN OF EAST HAMPTON
159 PANTIGO ROAD
EAST HAMPTON, NY 11937

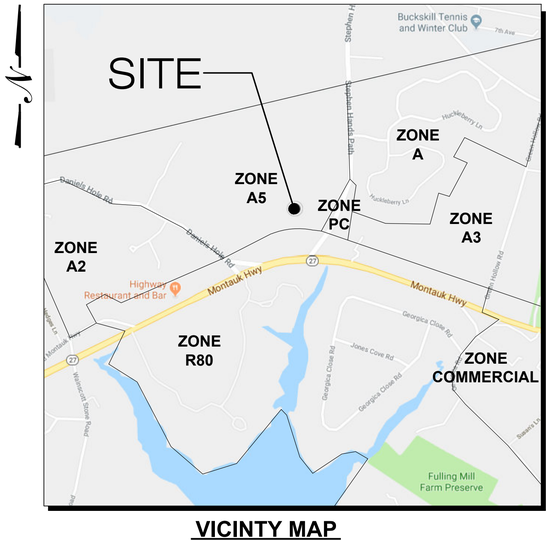
SITE CONTACT: JOHN JILNICKI - ATTORNEY
(631) 324-8787
STEPHEN LYNCH - HIGHWAY DEPT.
(631) 324-0925

LEASING CONTACT: ROBERT MONTELEONE
(516) 316-4626

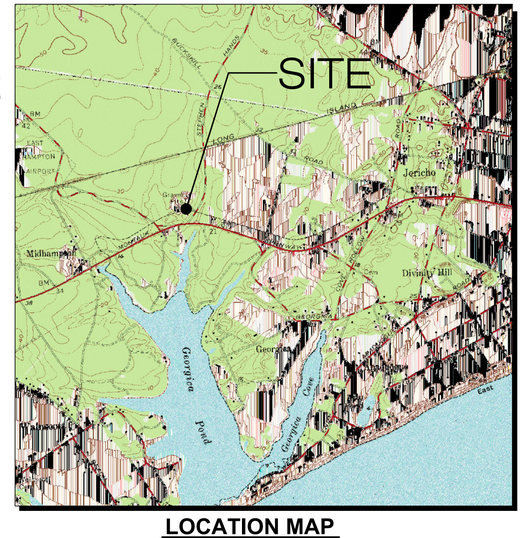
CONSTRUCTION CONTACT: OMAR ZEERBAN
(860) 581-4865

ENGINEER CONTACT: ROBERT C. BURNS, P.E.
(860) 663-1697 x206

LATITUDE: 40° 57' 16.2670" N
LONGITUDE: 72° 13' 51.1198" W
ELEVATION: 22.4'± AMSL
DISTRICT: 300
SECTION: 193
BLOCK: 2
LOT: 4
ZONING: A5



VICINTY MAP
SCALE : 1" = 1000'-0"



LOCATION MAP
SCALE : 1" = 24,000'

APPLICANT:
VERIZON WIRELESS
4 CENTEROCK RD.
WEST NYACK, NY 10994

VERIZON PROJECT ATTORNEY:
AMATO LAW GROUP, PLLC
666 OLD COUNTRY ROAD
SUITE 901
GARDEN CITY, NY 11530
(516) 227-6363

POWER PROVIDER:
PSEG: (800) 490-0025

TELCO PROVIDER:
VERIZON (914) 890-0200

DIG SAFELY NEW YORK:
(800) 962-7962

GOVERNING CODES:
2020 NEW YORK STATE UNIFORM FIRE
PREVENTION & BUILDING CODE
NATIONAL ELECTRIC CODE
TIA-222-H

LIST OF DRAWINGS

T-1 TITLE SHEET & INDEX
VB101 BOUNDARY & TOPOGRAPHIC SURVEY
R-1 1000' RADIUS MAP
R-2 1000' RADIUS PROPERTY OWNERS
V-1 VICINITY MAP
SP-1 OVERALL SITE PLAN
SP-2 PARTIAL SITE PLAN
SP-3 ACCESS DRIVE PROFILE & DETAILS
EC-1 EROSION CONTROL NOTES & DETAILS
CP-1 COMPOUND PLAN
A-1 ELEVATIONS
A-2 ELEVATIONS
C-1 EQUIPMENT SPACE PLAN & DETAILS
C-2 ANTENNA PLAN & DETAILS
C-3 SITE DETAILS
C-4 EQUIPMENT LIGHTING DETAILS
S-1 STRUCTURAL PLAN & DETAILS
M-1 MECHANICAL PLAN & DETAILS
E-1 ELECTRICAL RISER & DETAILS
E-2 ELECTRICAL PLAN, ONE LINE DIAGRAM & DETAILS
E-3 GROUNDING PLANS
E-4 GROUNDING DETAILS
N-1 NOTES & SPECIFICATIONS

verizon
4 CENTEROCK ROAD
WEST NYACK, NY 10994

APT ENGINEERING
567 VAUXHAUL STREET EXTENSION - SUITE 311
WATERFORD, CT 06385 PHONE: (860)-663-1697
WWW.ALLPOINTSTECH.COM FAX: (860)-663-0935

PERMITTING DOCUMENTS

NO	DATE	REVISION
0	04/15/19	FOR REVIEW: RCB
1	05/08/19	ATTORNEY REVISIONS: RCB
2	07/17/19	ATTORNEY REVISIONS: RCB
3	03/06/20	REVISED LAYOUT: RCB
4	03/12/20	ATTORNEY REVISIONS: RCB
5	03/19/20	ATTORNEY REVISIONS: RCB
6	03/30/20	ATTORNEY REVISIONS: RCB
7	06/19/20	TOWN COMMENTS: RCB
8	07/24/20	FOR REVIEW: RCB
9	07/29/20	FOR REVIEW: RCB
10	07/31/20	ATTORNEY REVISIONS: RCB

DESIGN PROFESSIONALS OF RECORD

PROF: SCOTT M. CHASSE P.E.
COMP: APT ENGINEERING
ADD: 567 VAUXHAUL STREET EXTENSION - SUITE311 WATERFORD, CT 06385

OWNER: TOWN OF EAST HAMPTON
ADDRESS: 159 PANTIGO ROAD EAST HAMPTON, NY 11937

NOTE:
IT IS A VIOLATION OF NEW YORK STATE EDUCATION LAW ARTICLE 145, SECTION 7209 (2) FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER OR LAND SURVEYOR, TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE SEAL OF AN ENGINEER OR LAND SURVEYOR IS ALTERED, THE ALTERING ENGINEER OR LAND SURVEYOR SHALL AFFIX TO THE ITEM HIS SEAL AND THE NOTATION "ALTERED BY" FOLLOWED BY THE SIGNATURE AND THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

VERIZON WIRELESS AT "WAINSCOTT 3"

SITE ADDRESS: 106 STEPHEN HANDS PATH WAINSCOTT, NY 11937

APT FILING NUMBER: NY141NB3300

PROJECT CODE: 20171584246

LOCATION CODE: 446966

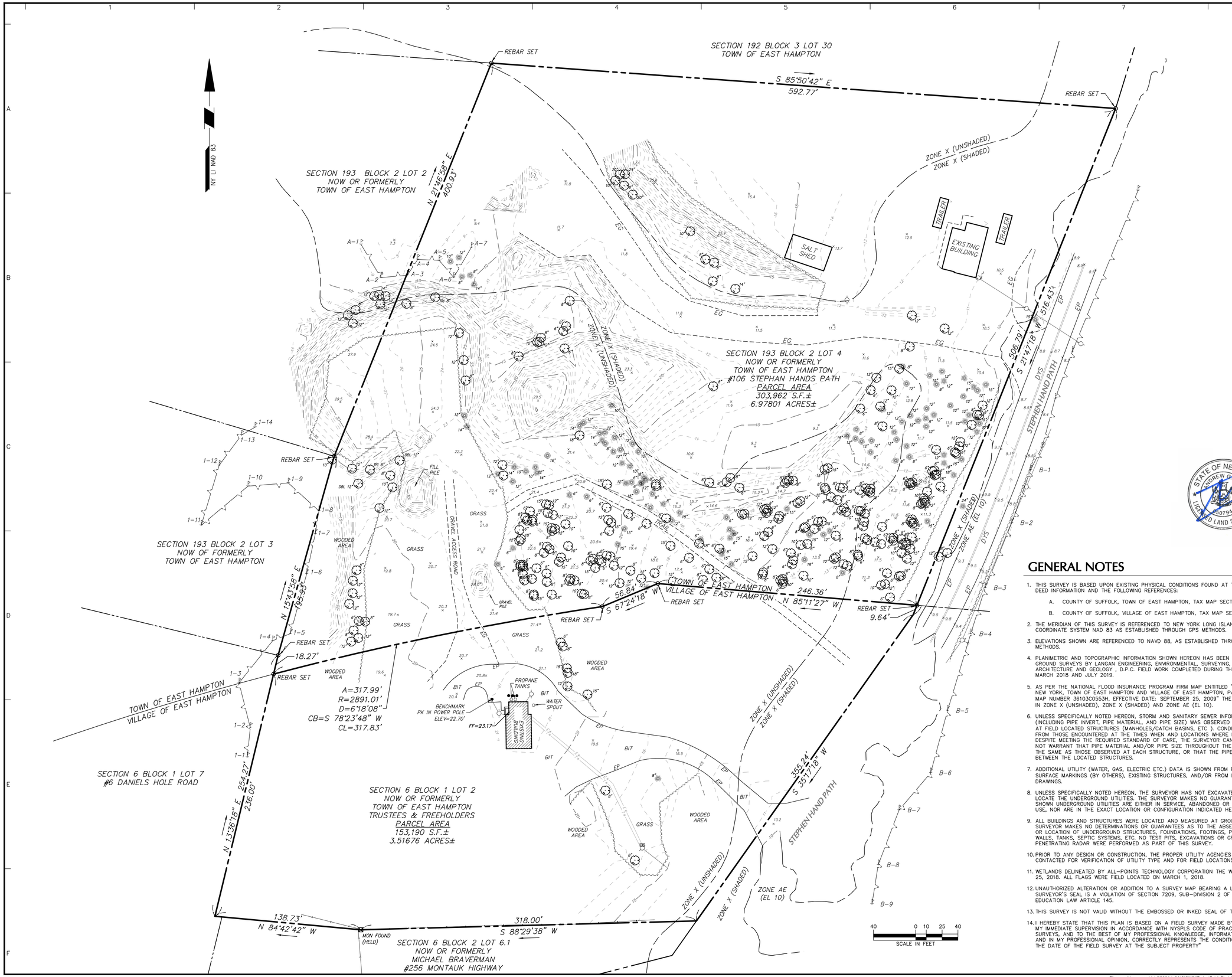
VZ CM: OZ | DRAWN BY: ELZ

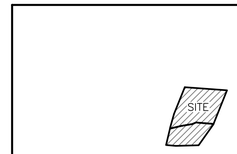
DATE: 04/15/19 | CHECKED BY: RCB

SHEET TITLE:
TITLE SHEET & INDEX

SHEET NUMBER:
T-1

STATE OF NEW YORK · SCOTT M. CHASSE · 073788 · LICENSED PROFESSIONAL ENGINEER





PROJECT LOCATION MAP

SCALE: NOT TO SCALE

SOURCE: MAPQUEST

LEGEND (NOT SHOWN TO SCALE)

- BOLLARD
- TREE
- WETLAND FLAG
- ELECTRIC METER
- LIGHT POLE
- POWER POLE
- x 262.3 — SPOT ELEVATION
- BIT — BITUMINOUS
- EP — EDGE OF PAVEMENT
- STOCKADE FENCE
- TREE LINE
- OVERHEAD WIRE
- WETLAND LINE
- PROPERTY LINE
- RIGHT-OF-WAY LINE
- 322 — CONTOUR LINE
- E — ELECTRIC MARK OUT LINE
- T — COMMUNICATION MARK OUT LINE
- R* — REFERENCE UTILITY LINE (TYPE AS NOTED) – PLOTTED FROM EXISTING MAPPING

GENERAL NOTES

1. THIS SURVEY IS BASED UPON EXISTING PHYSICAL CONDITIONS FOUND AT THE SUBJECT SITE, DEED INFORMATION AND THE FOLLOWING REFERENCES:
   A. COUNTY OF SUFFOLK, TOWN OF EAST HAMPTON, TAX MAP SECTION NO. 193.
   B. COUNTY OF SUFFOLK, VILLAGE OF EAST HAMPTON, TAX MAP SECTION NO. 7
2. THE MERIDIAN OF THIS SURVEY IS REFERENCED TO NEW YORK LONG ISLAND STATE PLANE COORDINATE SYSTEM NAD 83 AS ESTABLISHED THROUGH GPS METHODS.
3. ELEVATIONS SHOWN ARE REFERENCED TO NAVD 88, AS ESTABLISHED THROUGH GPS METHODS.
4. PLANIMETRIC AND TOPOGRAPHIC INFORMATION SHOWN HEREON HAS BEEN OBTAINED FROM GROUND SURVEYS BY LANGAN ENGINEERING, ENVIRONMENTAL, SURVEYING, LANDSCAPE ARCHITECTURE AND GEOLOGY , D.P.C. FIELD WORK COMPLETED DURING THE MONTH OF MARCH 2018 AND JULY 2019.
5. AS PER THE NATIONAL FLOOD INSURANCE PROGRAM FIRM MAP ENTITLED "SUFFOLK COUNTY, NEW YORK, TOWN OF EAST HAMPTON AND VILLAGE OF EAST HAMPTON, PANEL 553 OF 1026, MAP NUMBER 36103C0553H, EFFECTIVE DATE: SEPTEMBER 25, 2009" THE PROJECT AREA IS IN ZONE X (UNSHADED), ZONE X (SHADED) AND ZONE AE (EL 10).
6. UNLESS SPECIFICALLY NOTED HEREON, STORM AND SANITARY SEWER INFORMATION (INCLUDING PIPE INVERT, PIPE MATERIAL, AND PIPE SIZE) WAS OBSERVED AND MEASURED AT FIELD LOCATED STRUCTURES (MANHOLES/CATCH BASINS, ETC). CONDITIONS CAN VARY FROM THOSE ENCOUNTERED AT THE TIMES WHEN AND LOCATIONS WHERE DATA IS OBTAINED. DESPITE MEETING THE REQUIRED STANDARD OF CARE, THE SURVEYOR CANNOT, AND DOES NOT WARRANT THAT PIPE MATERIAL AND/OR PIPE SIZE THROUGHOUT THE PIPE RUN ARE THE SAME AS THOSE OBSERVED AT EACH STRUCTURE, OR THAT THE PIPE RUN IS STRAIGHT BETWEEN THE LOCATED STRUCTURES.
7. ADDITIONAL UTILITY (WATER, GAS, ELECTRIC ETC.) DATA IS SHOWN FROM FIELD LOCATED SURFACE MARKINGS (BY OTHERS), EXISTING STRUCTURES, AND/OR FROM EXISTING DRAWINGS.
8. UNLESS SPECIFICALLY NOTED HEREON, THE SURVEYOR HAS NOT EXCAVATED TO PHYSICALLY LOCATE THE UNDERGROUND UTILITIES. THE SURVEYOR MAKES NO GUARANTEES THAT THE SHOWN UNDERGROUND UTILITIES ARE EITHER IN SERVICE, ABANDONED OR SUITABLE FOR USE, NOR ARE IN THE EXACT LOCATION OR CONFIGURATION INDICATED HEREON.
9. ALL BUILDINGS AND STRUCTURES WERE LOCATED AND MEASURED AT GROUND LEVEL. THE SURVEYOR MAKES NO DETERMINATIONS OR GUARANTEES AS TO THE ABSENCE, EXISTENCE OR LOCATION OF UNDERGROUND STRUCTURES, FOUNDATIONS, FOOTINGS, PROJECTIONS, WALLS, TANKS, SEPTIC SYSTEMS, ETC. NO TEST PITS, EXCAVATIONS OR GROUND PENETRATING RADAR WERE PERFORMED AS PART OF THIS SURVEY.
10. PRIOR TO ANY DESIGN OR CONSTRUCTION, THE PROPER UTILITY AGENCIES MUST BE CONTACTED FOR VERIFICATION OF UTILITY TYPE AND FOR FIELD LOCATIONS.
11. WETLANDS DELINEATED BY ALL-POINTS TECHNOLOGY CORPORATION THE WEEK OF FEBRUARY 25, 2018. ALL FLAGS WERE FIELD LOCATED ON MARCH 1, 2018.
12. UNAUTHORIZED ALTERATION OR ADDITION TO A SURVEY MAP BEARING A LICENSED LAND SURVEYOR'S SEAL IS A VIOLATION OF SECTION 7209, SUB-DIVISION 2 OF N.Y STATE EDUCATION LAW ARTICLE 145.
13. THIS SURVEY IS NOT VALID WITHOUT THE EMBOSSED OR INKED SEAL OF THE PROFESSIONAL.
14. I HEREBY STATE THAT THIS PLAN IS BASED ON A FIELD SURVEY MADE BY ME OR UNDER MY IMMEDIATE SUPERVISION IN ACCORDANCE WITH NYSPLS CODE OF PRACTICE FOR LAND SURVEYS, AND TO THE BEST OF MY PROFESSIONAL KNOWLEDGE, INFORMATION, AND BELIEF, AND IN MY PROFESSIONAL OPINION, CORRECTLY REPRESENTS THE CONDITIONS FOUND ON THE DATE OF THE FIELD SURVEY AT THE SUBJECT PROPERTY"

STATE OF NEW YORK · ANDREW C. IVES · 050794 · LICENSED LAND SURVEYOR

Date	Description	No.
6/26/20	REVISED WETLANDS	5
5/27/20	REVISED WETLANDS & REBAR SET ON PROPERTY CORNERS	4
3/12/20	ADDRESSED COMMENTS	3
1/13/20	ADDITIONAL TOPO AREA	2
7/9/19	ADDITIONAL TOPO AREA	1

REVISIONS

ANDREW C. IVES — DATE SIGNED
PROFESSIONAL LAND SURVEYOR
NY STATE LIC. No. 50794

LANGAN
Langan Engineering, Environmental, Surveying, Landscape Architecture and Geology, D.P.C.
One North Broadway, Suite 910
White Plains, NY 10601
T: 914.323.7400 F: 914.323.7401 www.langan.com

Project
WAINSCOTT 3
TOWN OF EAST HAMPTON
SUFFOLK COUNTY — STATE OF NEW YORK

Drawing Title
BOUNDARY & TOPOGRAPHIC SURVEY

Project No. 140181101	Drawing No. VB101
Date MARCH 16, 2018	
Scale 1"=40'	
Drawn By JJS / Checked By AGI	
Submission Date	Sheet 1 of 1

LANGAN
PROJECT NO. 140181101

© 2018 Langan

Filename: \\langan.com\data\WHV\data\140181101\Project Data_Discipline\Survey\CAD\Existing\140181101-V-EX0101.dwg Date: 7/6/2020 Time: 11:13 User: aives Style Table: Langan.stb Layout: VB101

LEGEND

SUBJECT PARCEL PROPERTY LINE

ADJACENT PROPERTY LINE/R.O.W. LINE

NOTES:
1. SEE SHEET R-2 FOR 1000' RADIUS PROPERTY OWNERS.
2. TAX MAP & PROPERTY INFORMATION OBTAINED FROM SUFFOLK COUNTY GIS VIEWER AND THE TOWN OF EAST HAMPTON 2019 FINAL ASSESSMENT ROLL.

SUBJECT SITE PARCEL:
0300-193.00-02.00-04.000
106 STEPHEN HANDS PATH
N/F
TOWN OF EAST HAMPTON
159 PANTIGO ROAD
EAST HAMPTON, NY 11937
303,962± S.F.
6.98± ACRES
ZONE: A5 (RESIDENTIAL)
NORTHWEST FIRE
PROTECTION DISTRICT

N

1 / R-1 **1000' RADIUS MAP**
SCALE : 1" = 200'-0"

200 0 100 200 400
(IN FEET) 1 inch = 200 ft.

verizon

4 CENTEROCK ROAD
WEST NYACK, NY 10994

APT ENGINEERING
567 VAUXHAUL STREET EXTENSION - SUITE 311
WATERFORD, CT 06385 PHONE: (860)-663-1697
WWW.ALLPOINTSTECH.COM FAX: (860)-663-0935

PERMITTING DOCUMENTS

NO	DATE	REVISION
0	04/15/19	FOR REVIEW: RCB
1	05/08/19	ATTORNEY REVISIONS: RCB
2	07/17/19	ATTORNEY REVISIONS: RCB
3	03/06/20	REVISED LAYOUT: RCB
4	03/12/20	ATTORNEY REVISIONS: RCB
5	03/19/20	ATTORNEY REVISIONS: RCB
6	03/30/20	ATTORNEY REVISIONS: RCB
7	06/19/20	TOWN COMMENTS: RCB
8	07/24/20	FOR REVIEW: RCB
9	07/29/20	FOR REVIEW: RCB
10	07/31/20	ATTORNEY REVISIONS: RCB

DESIGN PROFESSIONALS OF RECORD

PROF: SCOTT M. CHASSE P.E.
COMP: APT ENGINEERING
ADD: 567 VAUXHAUL STREET
EXTENSION - SUITE311
WATERFORD, CT 06385

OWNER: TOWN OF EAST HAMPTON
ADDRESS: 159 PANTIGO ROAD
EAST HAMPTON, NY 11937

NOTE:
IT IS A VIOLATION OF NEW YORK STATE EDUCATION LAW ARTICLE 145, SECTION 7209 (2) FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER OR LAND SURVEYOR, TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE SEAL OF AN ENGINEER OR LAND SURVEYOR IS ALTERED, THE ALTERING ENGINEER OR LAND SURVEYOR SHALL AFFIX TO THE ITEM HIS SEAL AND THE NOTATION "ALTERED BY" FOLLOWED BY THE SIGNATURE AND THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

VERIZON WIRELESS AT "WAINSCOTT 3"

SITE ADDRESS: 106 STEPHEN HANDS PATH
WAINSCOTT, NY 11937

APT FILING NUMBER: NY141NB3300

PROJECT CODE: 20171584246

LOCATION CODE: 446966

VZ CM: OZ	DRAWN BY: ELZ
DATE: 04/15/19	CHECKED BY: RCB

SHEET TITLE:

1000' RADIUS MAP

SHEET NUMBER:

R-1

STATE OF NEW YORK · SCOTT M. CHASSE · 078603 · LICENSED PROFESSIONAL ENGINEER

TOWN OF EAST HAMPTON
1,000' RADIUS PROPERTY OWNERS
(SEE DRAWING R-1 FOR PROPERTY LOCATIONS)

TAX MAP NUMBERS	NOW OR FORMER OWNERS	PROPERTY ADDRESS				OWNERS ADDRESS			
		STREET	CITY	STATE	ZIP	STREET	CITY	STATE	ZIP
0300192000300029000	TOWN OF EAST HAMPTON (NOT IN ASSESSMENT ROLL)								
0300192000300030000	TOWN OF EAST HAMPTON	MIDDLE HWY	EAST HAMPTON	NY	11975	159 PANTIGO RD	EAST HAMPTON	NY	11937
0300192000300031018	RICHARD J. LETTER	15 DANIELS HOLE RD	EAST HAMPTON	NY	11975	451 W 22ND ST APT 1F	NEW YORK	NY	10011
0300192000300031022	GEORGICA WOODS ASSOCIATES (NOT IN ASSESSMENT ROLL)								
0300193000100002000	MTA AND IRR (NOT IN ASSESSMENT ROLL)								
0300193000100003000	TOWN OF EAST HAMPTON (NOT IN ASSESSMENT ROLL)								
0300193000200001000	TOWN OF EAST HAMPTON	STEPHEN HANDS PATH	EAST HAMPTON	NY	11975	159 PANTIGO RD	EAST HAMPTON	NY	11937
0300193000200002000	TOWN OF EAST HAMPTON (NOT IN ASSESSMENT ROLL)								
0300193000200003000	TOWN OF EAST HAMPTON	STEPHEN HANDS PATH	EAST HAMPTON	NY	11975	159 PANTIGO RD	EAST HAMPTON	NY	11937
0300193000200004000	TOWN OF EAST HAMPTON	STEPHEN HANDS PATH	EAST HAMPTON	NY	11975	159 PANTIGO RD	EAST HAMPTON	NY	11937
0300193000200005000	TOWN OF EAST HAMPTON (NOT IN ASSESSMENT ROLL)								
0300193000200006001	CHRISTIAN E. MARTIN	5 BUCKSKILL RD	EAST HAMPTON	NY	11937	PO BOX 956	EAST HAMPTON	NY	11937
0300193000200007001	DAVID SEEHERMAN	11 GREEN HOLLOW RD	EAST HAMPTON	NY	11937	21 GRAPE ARBOR LANE	EAST HAMPTON	NY	11937
0300193000200007009	JOHN J. PETERSON	2 POTTERS LN	EAST HAMPTON	NY	11937	520 W 19TH ST APT 4C	NEW YORK	NY	10011
0300193000200007012	GEORGICA ESTATES PROPERTY OWNERS	3 POTTERS LN	EAST HAMPTON	NY	11937	PO BOX 1864	EAST HAMPTON	NY	11937
0300193000200007015	GEORGICA ESTATES PROPERTY OWNERS (NOT IN ASSESSMENT ROLL)								
0300193000200007016	GEORGICA ESTATES PROPERTY OWNERS (NOT IN ASSESSMENT ROLL)								
0300193000200007020	GEORGICA ESTATES PROPERTY OWNERS (NOT IN ASSESSMENT ROLL)								
0300193000200018000	CONDO UNIT OWNERS (NOT IN ASSESSMENT ROLL)								
0300193000200019000	CONDO UNIT OWNERS (NOT IN ASSESSMENT ROLL)								
0300193000200020000	CONDO UNIT OWNERS (NOT IN ASSESSMENT ROLL)								
0301007000100002000	VILLAGE OF EAST HAMPTON TRUSTEES & FREEHOLDERS	106 STEPHEN HANDS PATH	EAST HAMPTON	NY	11975	159 PANTIGO RD	EAST HAMPTON	NY	11937
0301006000100005000	GEORGICA WOODS ASSOCIATES (NOT IN ASSESSMENT ROLL)								
0301006000100006000	DAVID A. WATSON	272 MONTAUK HWY	EAST HAMPTON	NY	11975	MONTAUK HWY	BRIDGEHAMPTON	NY	11932
0301006000100007000	TOWN OF EAST HAMPTON	6 DANIELS HOLE RD	EAST HAMPTON	NY	11975	159 PANTIGO RD	EAST HAMPTON	NY	11937
0301006000100008000	J. DANIEL WEITZMAN	266 MONTAUK HWY	EAST HAMPTON	NY	11975	8 1/2 MAPLE AVE	CAMBRIDGE	MA	02139
0301006000100009001	CREEKS ACQUISITION CORP.	291 MONTAUK HWY	EAST HAMPTON	NY	11975	38 E 63RD ST	NEW YORK	NY	10021
0301007000100002000	TRUSTEES & FREEHOLDERS OF EAST HAMPTON (NOT IN ASSESSMENT ROLL)								
0301007000100003000	TRUSTEES & FREEHOLDERS OF EAST HAMPTON (NOT IN ASSESSMENT ROLL)								
0301007000100004000	CHRISTIAN E. MARTIN	240 MONTAUK HWY	EAST HAMPTON	NY	11937	PO BOX 956	EAST HAMPTON	NY	11937
0301007000100005001	DAVID SEEHERMAN	11 GREEN HOLLOW RD	EAST HAMPTON	NY	11937	21 GRAPE ARBOR LANE	EAST HAMPTON	NY	11937
0301007000100005003	GEORGICA ESTATES ASSOCIATES (NOT IN ASSESSMENT ROLL)								
0301007000100006001	MICHAEL BRAVERMAN	256 MONTAUK HWY	EAST HAMPTON	NY	11937	PO DRAWER 2023	EAST HAMPTON	NY	11937
0301007000300001000	263 MONTAUK HIGHWAY LLC	263 MONTAUK HWY	EAST HAMPTON	NY	11975	35 E 62 ST	NEW YORK	NY	10065
0301007000300002000	CREEKS TWO CORPORATION		EAST HAMPTON	NY	11975				
0301007000300003000	LS HOLDINGS ONE LLC	249 MONTAUK HWY	EAST HAMPTON	NY	11975	330 W 72ND ST APT 10 B	NEW YORK	NY	10023
0301007000300004000	PHYLLIS J. BERGER	44 GEORGICA CLOSE RD	EAST HAMPTON	NY	11937	319 HAMPTON RD	SOUTHAMPTON	NY	11968
0301007000300005000	PHYLLIS J. BERGER	GEORGICA CLOSE RD	EAST HAMPTON	NY	11937	PO BOX 1915	EAST HAMPTON	NY	11937
0301007000300006000	SUSAN U. HALPERN	48 GEORGICA CLOSE RD	EAST HAMPTON	NY	11937	580 PARK AVE	NEW YORK	NY	10021
0301007000300010000	NATURE CONSERVANCY (NOT IN ASSESSMENT ROLL)								
0301007000400001000	GEORGIA CURATOLA	36 GEORGICA CLOSE RD	EAST HAMPTON	NY	11937	245 PARK AVE	NEW YORK	NY	10167
0301007000400002000	ANNE Z. EASTON	28 GEORGICA CLOSE RD	EAST HAMPTON	NY	11937	444 E 82ND ST	NEW YORK	NY	10028
0301007000400009000	ALICE HARRIS	37 GEORGICA CLOSE RD	EAST HAMPTON	NY	11937	970 PARK AVE	NEW YORK	NY	10028

NOTES:
1. SEE SHEET R-1 FOR 1000' RADIUS MAP.
2. TAX MAP & PROPERTY INFORMATION OBTAINED FROM SUFFOLK COUNTY GIS VIEWER AND THE TOWN OF EAST HAMPTON 2019 FINAL ASSESSMENT ROLL.

verizon
4 CENTEROCK ROAD
WEST NYACK, NY 10994

APT ENGINEERING
567 VAUXHAUL STREET EXTENSION - SUITE 311
WATERFORD, CT 06385 PHONE: (860)-663-1697
WWW.ALLPOINTSTECH.COM FAX: (860)-663-0935

PERMITTING DOCUMENTS

NO	DATE	REVISION
0	04/15/19	FOR REVIEW: RCB
1	05/08/19	ATTORNEY REVISIONS: RCB
2	07/17/19	ATTORNEY REVISIONS: RCB
3	03/06/20	REVISED LAYOUT: RCB
4	03/12/20	ATTORNEY REVISIONS: RCB
5	03/19/20	ATTORNEY REVISIONS: RCB
6	03/30/20	ATTORNEY REVISIONS: RCB
7	06/19/20	TOWN COMMENTS: RCB
8	07/24/20	FOR REVIEW: RCB
9	07/29/20	FOR REVIEW: RCB
10	07/31/20	ATTORNEY REVISIONS: RCB

DESIGN PROFESSIONALS OF RECORD

PROF: SCOTT M. CHASSE P.E.
COMP: APT ENGINEERING
ADD: 567 VAUXHAUL STREET EXTENSION - SUITE311 WATERFORD, CT 06385

OWNER: TOWN OF EAST HAMPTON
ADDRESS: 159 PANTIGO ROAD EAST HAMPTON, NY 11937

NOTE:
IT IS A VIOLATION OF NEW YORK STATE EDUCATION LAW ARTICLE 145, SECTION 7209 (2) FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER OR LAND SURVEYOR, TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE SEAL OF AN ENGINEER OR LAND SURVEYOR IS ALTERED, THE ALTERING ENGINEER OR LAND SURVEYOR SHALL AFFIX TO THE ITEM HIS SEAL AND THE NOTATION "ALTERED BY" FOLLOWED BY THE SIGNATURE AND THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

VERIZON WIRELESS AT "WAINSCOTT 3"

SITE ADDRESS: 106 STEPHEN HANDS PATH WAINSCOTT, NY 11937

APT FILING NUMBER: NY141NB3300

PROJECT CODE: 20171584246

LOCATION CODE: 446966

VZ CM: OZ | DRAWN BY: ELZ

DATE: 04/15/19 | CHECKED BY: RCB

SHEET TITLE:

1000' RADIUS PROPERTY OWNERS

SHEET NUMBER:

R-2

STATE OF NEW YORK · SCOTT M. CHASSE · 087178603 · LICENSED PROFESSIONAL ENGINEER

LEGEND

— — —	SUBJECT PARCEL PROPERTY LINE
———	ADJACENT PROPERTY LINE/R.O.W. LINE
R	RESIDENTIAL BUILDING
S	SHED OR ACCESSORY BUILDING

1 / V-1 VICINITY MAP

SCALE : 1" = 100'-0"

100 0 50 100 200

(IN FEET) 1 inch = 100 ft.

verizon

4 CENTEROCK ROAD
WEST NYACK, NY 10994

APT ENGINEERING

567 VAUXHAUL STREET EXTENSION - SUITE 311
WATERFORD, CT 06385 PHONE: (860)-663-1697
WWW.ALLPOINTSTECH.COM FAX: (860)-663-0935

PERMITTING DOCUMENTS

NO	DATE	REVISION
0	04/15/19	FOR REVIEW: RCB
1	05/08/19	ATTORNEY REVISIONS: RCB
2	07/17/19	ATTORNEY REVISIONS: RCB
3	03/06/20	REVISED LAYOUT: RCB
4	03/12/20	ATTORNEY REVISIONS: RCB
5	03/19/20	ATTORNEY REVISIONS: RCB
6	03/30/20	ATTORNEY REVISIONS: RCB
7	06/19/20	TOWN COMMENTS: RCB
8	07/24/20	FOR REVIEW: RCB
9	07/29/20	FOR REVIEW: RCB
10	07/31/20	ATTORNEY REVISIONS: RCB

DESIGN PROFESSIONALS OF RECORD

PROF: SCOTT M. CHASSE P.E.
COMP: APT ENGINEERING
ADD: 567 VAUXHAUL STREET EXTENSION - SUITE311 WATERFORD, CT 06385

OWNER: TOWN OF EAST HAMPTON
ADDRESS: 159 PANTIGO ROAD EAST HAMPTON, NY 11937

NOTE:
IT IS A VIOLATION OF NEW YORK STATE EDUCATION LAW ARTICLE 145, SECTION 7209 (2) FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER OR LAND SURVEYOR, TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE SEAL OF AN ENGINEER OR LAND SURVEYOR IS ALTERED, THE ALTERING ENGINEER OR LAND SURVEYOR SHALL AFFIX TO THE ITEM HIS SEAL AND THE NOTATION "ALTERED BY" FOLLOWED BY THE SIGNATURE AND THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

VERIZON WIRELESS AT "WAINSCOTT 3"

SITE ADDRESS: 106 STEPHEN HANDS PATH WAINSCOTT, NY 11937

APT FILING NUMBER: NY141NB3300

PROJECT CODE: 20171584246

LOCATION CODE: 446966

VZ CM: OZ	DRAWN BY: ELZ
DATE: 04/15/19	CHECKED BY: RCB

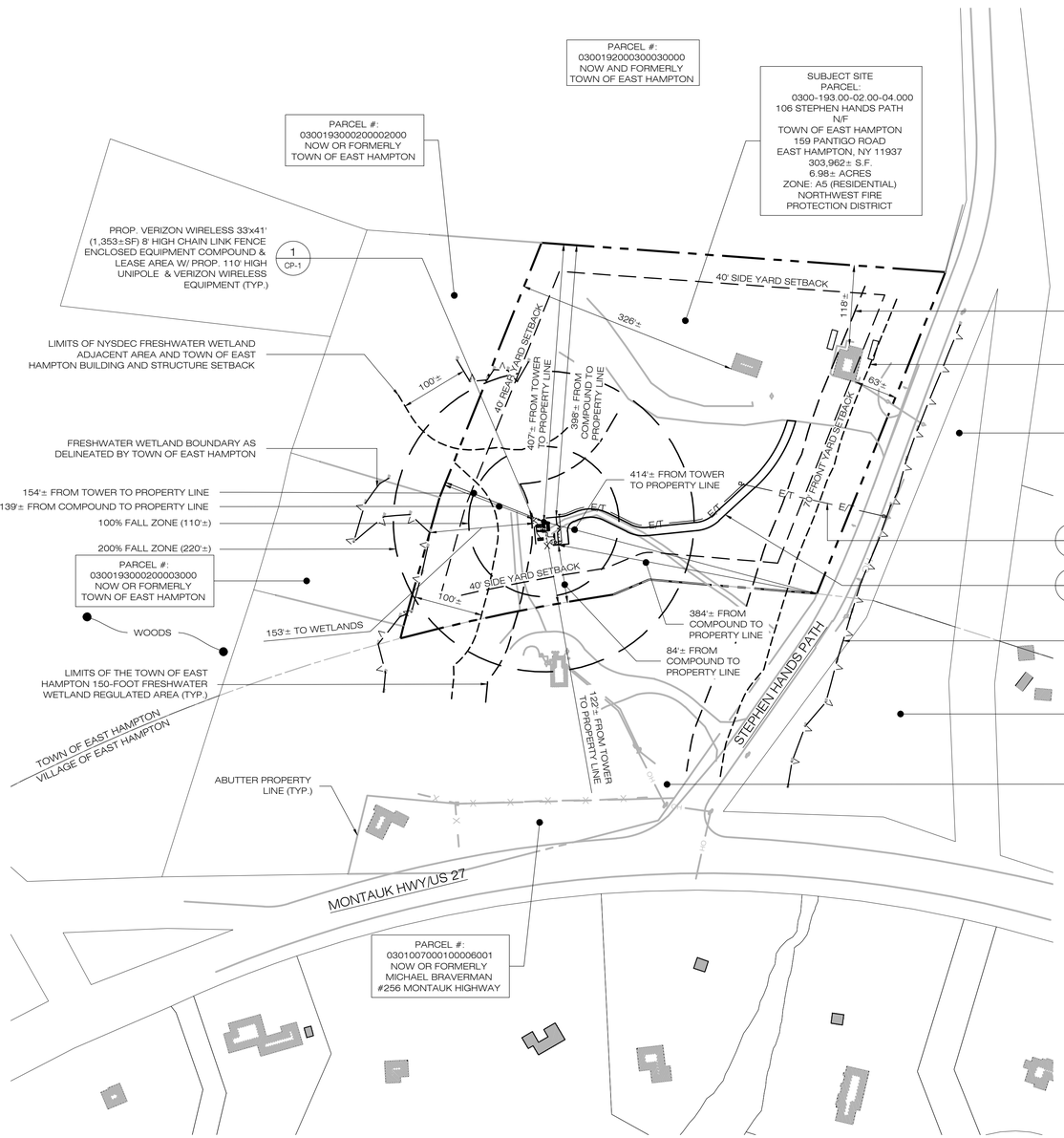
SHEET TITLE:

VICINITY MAP

SHEET NUMBER:

V-1

STATE OF NEW YORK · SCOTT M. CHASSE · 078603 · LICENSED PROFESSIONAL ENGINEER



LEGEND

- SUBJECT PARCEL PROPERTY LINE
- ADJACENT PROPERTY LINE/R.O.W. LINE
- MUNICIPAL BOUNDARY
- WETLAND BOUNDARY
- LIMITS OF NYSDEC FRESHWATER WETLAND ADJACENT AREA AND TOWN OF EAST HAMPTON BUILDING AND STRUCTURE SETBACK
- LIMITS OF THE TOWN OF EAST HAMPTON 150-FOOT FRESHWATER WETLAND REGULATED AREA (TYP.)
- BUILDING SETBACK LINE

LIMITS OF THE TOWN OF EAST HAMPTON 150-FOOT FRESHWATER WETLAND REGULATED AREA (TYP.)

LIMITS OF NYSDEC FRESHWATER WETLAND ADJACENT AREA AND TOWN OF EAST HAMPTON BUILDING & STRUCTURE SETBACK

PARCEL #:
0300193000200005000
NOW OR FORMERLY
TOWN OF EAST HAMPTON

5 E-1 PROP. VERIZON WIRELESS UNDERGROUND ELECTRIC & TELCO SERVICE FROM EXIST. UTILITY POLE (#VZ4) TO PROP. COMPOUND (APPROX. 560± LF) (FINAL ROUTE TO BE DETERMINED BY LOCAL UTILITY COMPANY)

2 SP-3 PROP. VERIZON WIRELESS 12' WIDE GRAVEL ACCESS DRIVEWAY (APPROX. 425'±) (TYP.)

FRESHWATER WETLAND BOUNDARY AS DELINEATED BY TOWN OF EAST HAMPTON

PARCEL #:
0301007000100003000
NOW OR FORMERLY
TRUSTEES & FREEHOLDERS
OF EAST HAMPTON

PARCEL #:
0301007000100002000
NOW OR FORMERLY
VILLAGE OF EAST HAMPTON
TRUSTEES & FREEHOLDERS

1 SP-1 OVERALL SITE PLAN

SCALE : 1" = 100'-0"

100 0 50 100 200
(IN FEET) 1 inch = 100 ft.

ZONING TABLE: EAST HAMPTON ZONING DISTRICT RESIDENTIAL A5

ITEM:	REQUIRED	EXISTING	PROPOSED
MAX. HEIGHT (FT)	25	18±	110
MIN. LOT AREA (SF)	200,000	303,962±	NC
MIN. LOT WIDTH (FT)	250	480±	NC
MIN. FRONT YARD ACCESSORY SETBACK (FT)	70	63±*	384±
MIN. SIDE YARD ACCESSORY SETBACK (FT)	40	118±	84±/398±
MIN. REAR YARD ACCESSORY SETBACK (FT)	40	326±	139±
MAX. BUILDING COVERAGE	7%	0.9%	NC
MAX. TOTAL LOT COVERAGE	25%/80,000SF	25.5% * (77,500± SF)	27.9% (85,000± SF)

NA = NOT APPLICABLE
* EXISTING DIMENSIONAL NON-CONFORMITY
NC = NO CHANGE

verizon
4 CENTEROCK ROAD
WEST NYACK, NY 10994

APT ENGINEERING
567 VAUXHAUL STREET EXTENSION - SUITE 311
WATERFORD, CT 06385 PHONE: (860)-663-1697
WWW.ALLPOINTSTECH.COM FAX: (860)-663-0935

PERMITTING DOCUMENTS

NO	DATE	REVISION
0	04/15/19	FOR REVIEW: RCB
1	05/08/19	ATTORNEY REVISIONS: RCB
2	07/17/19	ATTORNEY REVISIONS: RCB
3	03/06/20	REVISED LAYOUT: RCB
4	03/12/20	ATTORNEY REVISIONS: RCB
5	03/19/20	ATTORNEY REVISIONS: RCB
6	03/30/20	ATTORNEY REVISIONS: RCB
7	06/19/20	TOWN COMMENTS: RCB
8	07/24/20	FOR REVIEW: RCB
9	07/29/20	FOR REVIEW: RCB
10	07/31/20	ATTORNEY REVISIONS: RCB

DESIGN PROFESSIONALS OF RECORD

PROF: SCOTT M. CHASSE P.E.
COMP: APT ENGINEERING
ADD: 567 VAUXHAUL STREET
EXTENSION - SUITE311
WATERFORD, CT 06385

OWNER: TOWN OF EAST HAMPTON
ADDRESS: 159 PANTIGO ROAD
EAST HAMPTON, NY 11937

NOTE:
IT IS A VIOLATION OF NEW YORK STATE EDUCATION LAW ARTICLE 145, SECTION 7209 (2) FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER OR LAND SURVEYOR, TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE SEAL OF AN ENGINEER OR LAND SURVEYOR IS ALTERED, THE ALTERING ENGINEER OR LAND SURVEYOR SHALL AFFIX TO THE ITEM HIS SEAL AND THE NOTATION "ALTERED BY" FOLLOWED BY THE SIGNATURE AND THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

VERIZON WIRELESS AT
"WAINSCOTT 3"

SITE ADDRESS: 106 STEPHEN HANDS PATH
WAINSCOTT, NY 11937

APT FILING NUMBER: NY141NB3300

PROJECT CODE: 20171584246

LOCATION CODE: 446966

VZ CM: OZ | DRAWN BY: ELZ

DATE: 04/15/19 | CHECKED BY: RCB

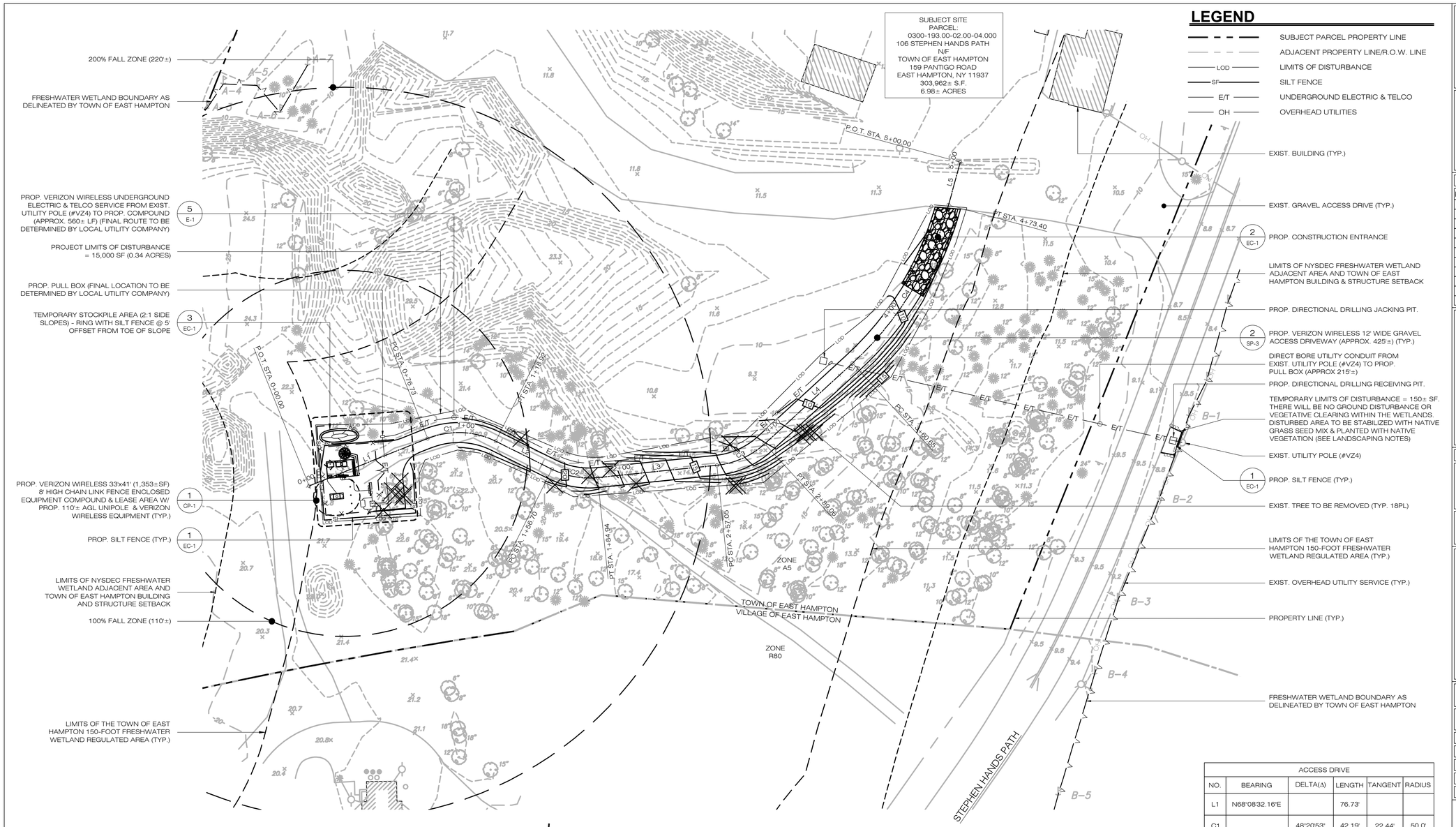
SHEET TITLE:

OVERALL SITE PLAN

SHEET NUMBER:

SP-1

STATE OF NEW YORK · SCOTT M. CHASSE · 078633 · LICENSED PROFESSIONAL ENGINEER



LEGEND

- SUBJECT PARCEL PROPERTY LINE
- ADJACENT PROPERTY LINE/R.O.W. LINE
- LOD — LIMITS OF DISTURBANCE
- SF — SILT FENCE
- E/T — UNDERGROUND ELECTRIC & TELCO
- OH — OVERHEAD UTILITIES

LANDSCAPING NOTE:
FOLLOWING THE COMPLETION OF WORK, DISTURBED PORTIONS OF THE DRILLING PIT FOOTPRINT WITHIN THE NYSDEC AND TOWN OF EAST HAMPTON REGULATED WETLAND ADJACENT AREAS WILL BE BACKFILLED WITH CLEAN FILL, STABILIZED WITH NATIVE GRASS SEED MIX AND REVEGETATED WITH NATIVE SPECIES FROM THE FOLLOWING LIST:

SHRUBS (TO BE SPACED 3 FEET APART)
LOWBUSH BLUEBERRY (VACCINIUM ANGUSTIFOLIUM)
BLACK HUCKLEBERRY (GAYLUSSACIA BACCATA)
NORTHERN BAYBERRY (MYRICA PENSYLVANICA)
AMERICAN HOLLY (ILEX OPACA)

1 SP-2 **PARTIAL SITE PLAN**
SCALE : 1" = 30'-0"

30 0 15 30 60
(IN FEET) 1 inch = 30 ft.

ACCESS DRIVE					
NO.	BEARING	DELTA(Δ)	LENGTH	TANGENT	RADIUS
L1	N68°08'32.16"E		76.73'		
C1		48°20'53"	42.19'	22.44'	50.0'
L2	S63°30'34.81"E		37.78'		
C2		32°22'03"	28.25'	14.51'	50.0'
L3	N84°07'22.68"E		72.11'		
C3		36°40'54"	32.01'	16.58'	50.0'
L4	N47°26'28.66"E		71.59'		
C4		32°18'03"	112.75'	57.92'	200.0'
L5	N15°08'25.45"E		26.60'		

verizon
4 CENTEROCK ROAD
WEST NYACK, NY 10994

APT ENGINEERING
567 VAUXHAUL STREET EXTENSION - SUITE 311
WATERFORD, CT 06385 PHONE: (860)-663-1697
WWW.ALLPOINTSTECH.COM FAX: (860)-663-0935

PERMITTING DOCUMENTS

NO	DATE	REVISION
0	04/15/19	FOR REVIEW: RCB
1	05/08/19	ATTORNEY REVISIONS: RCB
2	07/17/19	ATTORNEY REVISIONS: RCB
3	03/06/20	REVISED LAYOUT: RCB
4	03/12/20	ATTORNEY REVISIONS: RCB
5	03/19/20	ATTORNEY REVISIONS: RCB
6	03/30/20	ATTORNEY REVISIONS: RCB
7	06/19/20	TOWN COMMENTS: RCB
8	07/24/20	FOR REVIEW: RCB
9	07/29/20	FOR REVIEW: RCB
10	07/31/20	ATTORNEY REVISIONS: RCB

DESIGN PROFESSIONALS OF RECORD

PROF: SCOTT M. CHASSE P.E.
COMP: APT ENGINEERING
ADD: 567 VAUXHAUL STREET EXTENSION - SUITE311 WATERFORD, CT 06385

OWNER: TOWN OF EAST HAMPTON
ADDRESS: 159 PANTIGO ROAD EAST HAMPTON, NY 11937

NOTE:
IT IS A VIOLATION OF NEW YORK STATE EDUCATION LAW ARTICLE 145, SECTION 7209 (2) FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER OR LAND SURVEYOR, TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE SEAL OF AN ENGINEER OR LAND SURVEYOR IS ALTERED, THE ALTERING ENGINEER OR LAND SURVEYOR SHALL AFFIX TO THE ITEM HIS SEAL AND THE NOTATION "ALTERED BY" FOLLOWED BY THE SIGNATURE AND THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

VERIZON WIRELESS AT "WAINSCOTT 3"

SITE ADDRESS: 106 STEPHEN HANDS PATH WAINSCOTT, NY 11937

APT FILING NUMBER: NY141NB3300

PROJECT CODE: 20171584246

LOCATION CODE: 446966

VZ CM: OZ | DRAWN BY: ELZ

DATE: 04/15/19 | CHECKED BY: RCB

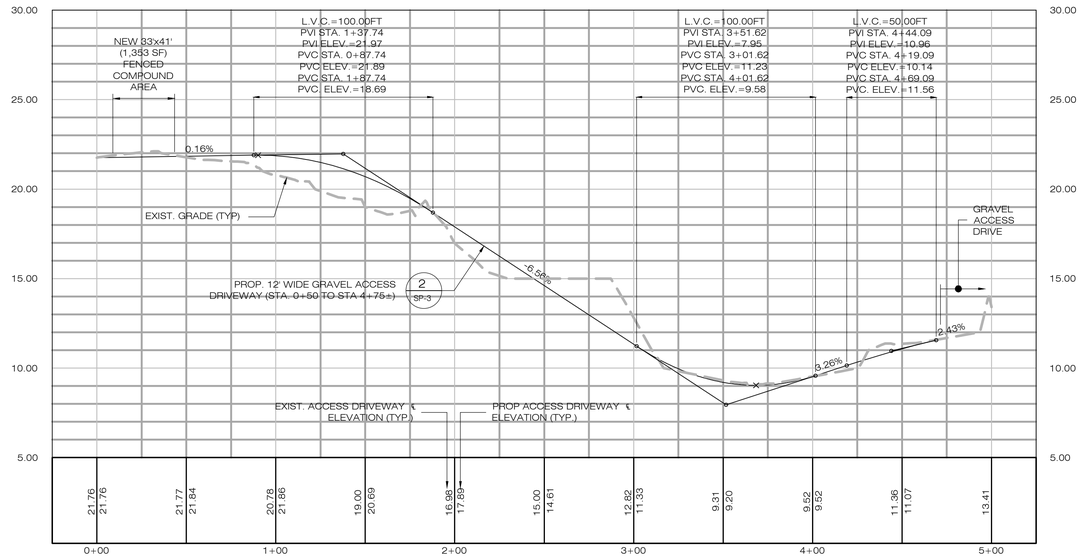
SHEET TITLE:

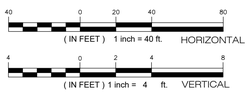
PARTIAL SITE PLAN

SHEET NUMBER:

SP-2

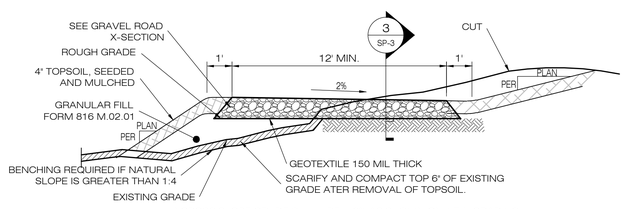
STATE OF NEW YORK · SCOTT M. CHASSE · 073878803 · LICENSED PROFESSIONAL ENGINEER





1 SP-3 ACCESS DRIVEWAY PROFILE

SCALE : HORIZONTAL: 1" = 40'-0"
VERTICAL: 1" = 4'-0"

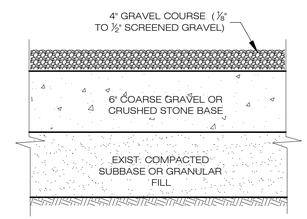


* CROSS SLOPE GRADE SHALL BE 1-2% AS SHOWN ON NEW GRADING

* WHERE CUT OR FILL EMBANKMENTS ARE STEEPER THAN 3:1 USE A STAPLED IN PLACE, BIODEGRADABLE EROSION CONTROL BLANKET OR A BONDED FIBER MATRIX HYDROSEED APPLICATION.

2 SP-3 TYPICAL ROAD CROSS SECTION

SCALE : NTS



NOTES:
1. SUBBASE MAY CONSIST OF NATIVE MATERIALS IF FOUND ACCEPTABLE BY THE ENGINEER. SUBBASE TO BE COMPACTED TO 95% MAX DRY DENSITY.
2. SUBBASE IS TO BE FREE FROM DEBRIS AND UNSUITABLE MATERIALS.

3 SP-3 GRAVEL DRIVEWAY/PARKING SECTION

SCALE : N.T.S.

verizon
4 CENTEROCK ROAD
WEST NYACK, NY 10994

APT ENGINEERING
567 VAUXHAUL STREET EXTENSION - SUITE 311
WATERFORD, CT 06385 PHONE: (860)-663-1697
WWW.ALLPOINTSTECH.COM FAX: (860)-663-0935

PERMITTING DOCUMENTS

NO	DATE	REVISION
0	04/15/19	FOR REVIEW: RCB
1	05/08/19	ATTORNEY REVISIONS: RCB
2	07/17/19	ATTORNEY REVISIONS: RCB
3	03/06/20	REVISED LAYOUT: RCB
4	03/12/20	ATTORNEY REVISIONS: RCB
5	03/19/20	ATTORNEY REVISIONS: RCB
6	03/30/20	ATTORNEY REVISIONS: RCB
7	06/19/20	TOWN COMMENTS: RCB
8	07/24/20	FOR REVIEW: RCB
9	07/29/20	FOR REVIEW: RCB
10	07/31/20	ATTORNEY REVISIONS: RCB

DESIGN PROFESSIONALS OF RECORD

PROF: SCOTT M. CHASSE P.E.
COMP: APT ENGINEERING
ADD: 567 VAUXHAUL STREET EXTENSION - SUITE311 WATERFORD, CT 06385

OWNER: TOWN OF EAST HAMPTON
ADDRESS: 159 PANTIGO ROAD EAST HAMPTON, NY 11937

NOTE:
IT IS A VIOLATION OF NEW YORK STATE EDUCATION LAW ARTICLE 145, SECTION 7209 (2) FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER OR LAND SURVEYOR, TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE SEAL OF AN ENGINEER OR LAND SURVEYOR IS ALTERED, THE ALTERING ENGINEER OR LAND SURVEYOR SHALL AFFIX TO THE ITEM HIS SEAL AND THE NOTATION "ALTERED BY" FOLLOWED BY THE SIGNATURE AND THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

VERIZON WIRELESS AT "WAINSCOTT 3"

SITE ADDRESS: 106 STEPHEN HANDS PATH WAINSCOTT, NY 11937

APT FILING NUMBER: NY141NB3300

PROJECT CODE: 20171584246

LOCATION CODE: 446966

VZ CM: OZ	DRAWN BY: ELZ
DATE: 04/15/19	CHECKED BY: RCB

SHEET TITLE:

ACCESS DRIVE PROFILE & DETAILS

SHEET NUMBER:

SP-3

STATE OF NEW YORK · SCOTT M. CHASSE · 087786533 · LICENSED PROFESSIONAL ENGINEER

EROSION CONTROL NOTES

EROSION AND SEDIMENT CONTROL PLAN NOTES

1. THE CONTRACTOR SHALL CONSTRUCT ALL SEDIMENT AND EROSION CONTROLS IN ACCORDANCE WITH THE NEW YORK STATE STANDARDS AND SPECIFICATIONS FOR EROSION AND SEDIMENT CONTROL (BLUE BOOK), LATEST EDITION, IN ACCORDANCE WITH THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL KEEP A COPY OF THE CURRENT GUIDELINES ON-SITE FOR REFERENCE DURING CONSTRUCTION. ALL SEDIMENTATION AND EROSION CONTROL MEASURES, INCLUDING THE CONSTRUCTION OF TEMPORARY SEDIMENTATION TRAPS/BASINS, TEMPORARY DIVERSION SWALES AND ANTI-TRACKING PADS, SHALL BE INSTALLED PRIOR TO THE START OF CLEARING AND GRUBBING AND DEMOLITION OPERATIONS.

2. THESE DRAWINGS ARE ONLY INTENDED TO DESCRIBE THE SEDIMENT AND EROSION CONTROL MEASURES FOR THIS SITE. ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES SHOWN ON THE EROSION & SEDIMENT CONTROL PLAN ARE SHOWN IN A GENERAL SIZE AND LOCATION ONLY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING THAT ALL EROSION CONTROL MEASURES ARE CONFIGURED AND CONSTRUCTED IN A MANNER THAT WILL MINIMIZE EROSION OF SOILS AND PREVENT THE TRANSPORT OF SEDIMENTS AND OTHER POLLUTANTS TO STORM DRAINAGE SYSTEMS AND/OR WATERCOURSES. ACTUAL SITE CONDITIONS OR SEASONAL AND CLIMATIC CONDITIONS MAY WARRANT ADDITIONAL CONTROLS OR CONFIGURATIONS WHEN DIRECTED BY THE ENGINEER. SEE SEDIMENT AND EROSION CONTROL DETAILS AND SUGGESTED CONSTRUCTION SEQUENCE FOR MORE INFORMATION. REFER TO SITE PLAN FOR GENERAL INFORMATION AND OTHER CONTRACT PLANS FOR APPROPRIATE INFORMATION.

3. THE CONTRACTOR IS RESPONSIBLE FOR IMPLEMENTING THE SEDIMENT AND EROSION CONTROL PLAN. THIS RESPONSIBILITY INCLUDES THE PROPER INSTALLATION AND MAINTENANCE OF CONTROL MEASURES, INFORMING ALL PARTIES ENGAGED WITH CONSTRUCTION ON THE SITE OF THE REQUIREMENTS AND OBJECTIVES OF THIS PLAN, INFORMING THE GOVERNING AUTHORITY OR INLAND WETLANDS AGENCY OF ANY TRANSFER OF THIS RESPONSIBILITY, AND FOR CONVEYING A COPY OF THE SEDIMENT & EROSION CONTROL PLAN IF THE TITLE TO THE LAND IS TRANSFERRED.

4. A BOND MAY BE REQUIRED TO BE POSTED WITH THE GOVERNING AUTHORITY FOR THE EROSION CONTROL INSTALLATION AND MAINTENANCE.

5. THE CONTRACTOR SHALL APPLY THE MINIMUM EROSION & SEDIMENT CONTROL MEASURES SHOWN ON THE PLAN IN CONJUNCTION WITH CONSTRUCTION SEQUENCING, SUCH THAT ALL ACTIVE WORK ZONES ARE PROTECTED. ADDITIONAL AND/OR ALTERNATIVE SEDIMENT AND EROSION CONTROL MEASURES MAY BE INSTALLED DURING THE CONSTRUCTION PERIOD IF FOUND NECESSARY BY THE CONTRACTOR, OWNER, SITE ENGINEER, MUNICIPAL OFFICIALS, OR ANY GOVERNING AGENCY. THE CONTRACTOR SHALL CONTACT THE GOVERNING AND APPROPRIATE GOVERNING AGENCIES FOR APPROVAL IF ALTERNATIVE CONTROLS OTHER THAN THOSE SHOWN ON THE PLANS ARE PROPOSED BY THE CONTRACTOR.

6. THE CONTRACTOR SHALL TAKE EXTREME CARE DURING CONSTRUCTION SO AS NOT TO DISTURB UNPROTECTED WETLAND AREAS OR SEDIMENTATION AND EROSION CONTROL MEASURES. THE CONTRACTOR SHALL INSPECT ALL SEDIMENT AND EROSION CONTROLS WEEKLY AND WITHIN 24 HOURS OF A STORM WITH A RAINFALL AMOUNT OF 0.2 INCHES OR GREATER TO VERIFY THAT THE CONTROLS ARE OPERATING PROPERLY AND MAKE REPAIRS WHERE NECESSARY.

7. THE CONTRACTOR SHALL KEEP A SUPPLY OF EROSION CONTROL MATERIAL (HAY BALES, SILT FENCE, JUTE MESH, ETC.) ON-SITE FOR PERIODIC MAINTENANCE AND EMERGENCY REPAIRS.

8. ALL FILL MATERIAL PLACED ADJACENT TO ANY WETLAND AREA SHALL BE GOOD QUALITY, WITH LESS THAN 5% FINES PASSING THROUGH A #200 SIEVE (BANK RUN). SHALL BE PLACED IN MAXIMUM ONE FOOT LIFTS, AND SHALL BE COMPACTED TO 95% MAX. DRY DENSITY MODIFIED PROCTOR OR AS SPECIFIED IN THE CONTRACT SPECIFICATIONS.

9. PROTECT EXISTING TREES THAT ARE TO BE SAVED BY FENCING AT THE DRIP LINE, OR AS DETAILED, WITH SNOW FENCE, ORANGE SAFETY FENCE, OR EQUIVALENT FENCING. ANY LIMB TRIMMING SHOULD BE DONE AFTER CONSULTATION WITH AN ARBORIST AND BEFORE CONSTRUCTION BEGINS IN THAT AREA; FENCING SHALL BE MAINTAINED AND REPAIRED DURING CONSTRUCTION.

10. ANTI-TRACKING PADS SHALL BE INSTALLED PRIOR TO ANY SITE EXCAVATION OR CONSTRUCTION ACTIVITY AND SHALL BE MAINTAINED THROUGHOUT THE DURATION OF ALL CONSTRUCTION. THE LOCATION OF THE TRACKING PADS MAY CHANGE AS VARIOUS PHASES OF CONSTRUCTION ARE COMPLETED.

11. ALL CONSTRUCTION SHALL BE CONTAINED WITHIN THE LIMIT OF DISTURBANCE, WHICH SHALL BE MARKED WITH SILT FENCE, SAFETY FENCE, HAY BALES, RIBBONS, OR OTHER MEANS PRIOR TO CLEARING. CONSTRUCTION ACTIVITY SHALL REMAIN ON THE UPHILL SIDE OF THE SEDIMENT BARRIER UNLESS WORK IS SPECIFICALLY CALLED FOR ON THE DOWNHILL SIDE OF THE BARRIER. STAKED HAY BALES OR SILT FENCES SHALL ALSO BE INSTALLED AT THE DOWNHILL SIDES OF BUILDING EXCAVATIONS, DEWATERING PUMP DISCHARGES, AND MATERIAL STOCKPILES.

12. WASHOUT OF APPLICATORS, CONTAINERS, VEHICLES AND EQUIPMENT FOR CONCRETE SHALL BE CONDUCTED IN A DESIGNATED WASHOUT AREA. NO SURFACE DISCHARGE OF WASHOUT WASTEWATERS FROM THE AREA WILL BE ALLOWED. ALL CONCRETE WASHWATER WILL BE DIRECTED INTO A CONTAINER OR PIT SUCH THAT NO OVERFLOWS CAN OCCUR. WASHOUT SHALL BE CONDUCTED IN AN ENTIRELY SELF-CONTAINED SYSTEM AND WILL BE CLEARLY DESIGNED AND FLAGGED OR SIGNED WHERE NECESSARY. THE WASHOUT AREA SHALL BE LOCATED OUTSIDE OF ANY BUFFERS AND AT LEAST 50 FEET FROM ANY STREAM, WETLAND OR OTHER SENSITIVE WATER OR NATURAL RESOURCES AS DETERMINED OR DESIGNATED BY THE ENGINEER.

13. INSTALL TEMPORARY DIVERSION DITCHES, PLUNGE POOLS, TEMPORARY SEDIMENT TRAPS/BASINS, AND DEWATERING PITS AS SHOWN AND AS NECESSARY DURING VARIOUS PHASES OF CONSTRUCTION TO CONTROL RUNOFF UNTIL UPHILL AREAS ARE STABILIZED. LOCATION OF TEMPORARY SEDIMENT TRAPS/BASINS WILL REQUIRE REVIEW AND APPROVAL BY THE ENGINEER AND GOVERNING OFFICIAL. DEWATERING SETTLING TRAPS SHALL BE USED IF GROUND WATER IS ENCOUNTERED. NO RUNOFF SHALL BE ALLOWED TO EXIT THE SITE PRIOR TO TREATMENT FOR SEDIMENT REMOVAL.

14. AS GENERAL GRADING OPERATIONS PROGRESS, THE TEMPORARY DIVERSION DITCHES SHALL BE RAISED OR LOWERED AND RELOCATED, AS CUT AND FILL SLOPES DICTATE, TO DIVERT SURFACE RUNOFF TO THE SEDIMENT TRAPS/BASINS.

15. TEMPORARY SEDIMENT TRAPS SHALL PROVIDE 134 CUBIC YARDS OF SEDIMENT STORAGE PER DISTURBED ACRE CONTRIBUTING TO THE TRAP/BASIN. PROVIDE TRAP/BASIN VOLUMES FOR ALL DISTURBANCE ON SITE.

16. PERIODICALLY CHECK ACCUMULATED SEDIMENT LEVELS IN SEDIMENT TRAPS/BASINS DURING CONSTRUCTION AND CLEAN ACCUMULATED SILT WHEN NECESSARY OR WHEN ONE FOOT OF SEDIMENT HAS ACCUMULATED. CLEAN ACCUMULATED SEDIMENT FROM CATCH BASIN SUMPS AS NECESSARY. REMOVE ACCUMULATED SEDIMENT FROM BEHIND HAY BALES AND SILT FENCE. EXCAVATED MATERIAL FROM TEMPORARY SEDIMENT TRAPS/BASINS MUST BE STOCKPILED ON UPHILL SIDE OF SILT FENCE.

17. TOPSOIL SHALL BE STRIPPED AND STOCKPILED FOR USE IN FINAL LANDSCAPING. ALL EARTH STOCKPILES SHALL HAVE HAY BALES OR SILT FENCE AROUND THE LIMIT OF PILE. PILES SHALL BE TEMPORARILY SEEDED IF PILE IS TO REMAIN IN PLACE AND UNDISTURBED FOR MORE THAN 30 DAYS.

18. NO CUT OR FILL SLOPES SHALL EXCEED 2:1 EXCEPT WHERE STABILIZED BY ROCK FACED EMBANKMENTS OR EROSION CONTROL BLANKETS, JUTE MESH AND VEGETATION. ALL SLOPES SHALL BE SEEDED, AND THE ROAD SHOULDER AND BANKS WILL BE STABILIZED IMMEDIATELY UPON COMPLETION OF FINAL GRADING UNTIL TURF IS ESTABLISHED.

19. DIRECT ALL DEWATERING PUMP DISCHARGE TO A SEDIMENT CONTROL DEVICE SUCH AS TEMPORARY SEDIMENT TRAPS OR GRASS FILTERS WITHIN THE APPROVED LIMIT OF DISTURBANCE. DISCHARGE TO STORM DRAINS OR SURFACE WATERS FROM SEDIMENT CONTROLS SHALL BE CLEAR AND APPROVED BY THE ENGINEER.

20. BLOCK THE OPEN UPSTREAM ENDS OF DETENTION BASIN/SEDIMENT TRAP OUTLET CONTROL ORIFICES UNTIL SITE IS STABILIZED AND BLOCK END OF STORM DRAINS IN EXPOSED TRENCHES WITH BOARDS AND SANDBAGS AT THE END OF EACH WORKING DAY WHEN RAIN IS EXPECTED.

21. THE CONTRACTOR SHALL MAINTAIN A CLEAN CONSTRUCTION SITE AND SHALL NOT ALLOW THE ACCUMULATION OF RUBBISH OR CONSTRUCTION DEBRIS ON THE SITE. PROPER SANITARY DEVICES SHALL BE MAINTAINED ON-SITE AT ALL TIMES. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO AVOID THE SPILLAGE OF FUEL OR OTHER POLLUTANTS ON THE CONSTRUCTION SITE AND SHALL ADHERE TO ALL APPLICABLE POLICIES AND REGULATIONS RELATED TO SPILL PREVENTION AND RESPONSE/CONTAINMENT.

22. MINIMIZE LAND DISTURBANCES. SEED AND MULCH DISTURBED AREAS WITH TEMPORARY MIX AS SOON AS PRACTICABLE (2 WEEK MAXIMUM UNSTABILIZED PERIOD) USING PERENNIAL RYEGRASS AT 40 LBS PER ACRE. MULCH ALL CUT AND FILL SLOPES AND SWALES WITH LOOSE HAY AT A RATE OF 2 TONS PER ACRE. IF NECESSARY, REPLACE LOOSE HAY ON SLOPES WITH EROSION CONTROL BLANKETS OR JUTE CLOTH. MODERATELY GRADED AREAS, ISLANDS, AND TEMPORARY CONSTRUCTION STAGING AREAS MAY BE HYDROSEEDED WITH TACKIFIER.

23. SWEEP AFFECTED PORTIONS OF OFF SITE ROADS ONE OR MORE TIMES A DAY (OR LESS FREQUENTLY IF TRACKING IS NOT A PROBLEM) DURING CONSTRUCTION. FOR DUST CONTROL, PERIODICALLY MOISTEN EXPOSED SOIL SURFACES WITH WATER ON UNPAVED TRAVELWAYS TO KEEP THE TRAVELWAYS DAMP. CALCIUM CHLORIDE MAY ALSO BE APPLIED TO ACCESS ROADS. DUMP TRUCK LOADS EXITING THE SITE SHALL BE COVERED.

24. TURF ESTABLISHMENT SHALL BE PERFORMED OVER ALL DISTURBED SOIL, UNLESS THE AREA IS UNDER ACTIVE CONSTRUCTION, IT IS COVERED IN STONE OR SCHEDULED FOR PAVING WITHIN 30 DAYS. TEMPORARY SEEDING OR NON-LIVING SOIL PROTECTION OF ALL EXPOSED SOILS AND SLOPES SHALL BE INITIATED WITHIN THE FIRST 7 DAYS OF SUSPENDING WORK IN AREAS TO BE LEFT LONGER THAN 30 DAYS.

25. IF CONSTRUCTION ACTIVITIES ARE COMPLETE OR HAVE BEEN TEMPORARILY HALTED FOR 7 DAYS, STABILIZATION ACTIVITIES WILL BE IMPLEMENTED WITHIN 3 DAYS.

26. TWO WEEKS BEFORE THE FALL SEEDING SEASON BEGINS (AUGUST 15 TO OCTOBER 15), THE CONTRACTOR SHALL STABILIZE THE SITE FOR WINTER MONTHS. MEASURES SUCH AS MULCHING AND/OR SEEDING MAY BE REQUIRED.

27. MAINTAIN ALL PERMANENT AND TEMPORARY SEDIMENT CONTROL DEVICES IN EFFECTIVE CONDITION THROUGHOUT THE CONSTRUCTION PERIOD. UPON COMPLETION OF WORK REMOVE ALL TEMPORARY SEDIMENT CONTROLS ONCE THE SITE IS FULLY STABILIZED AND APPROVAL HAS BEEN RECEIVED FROM TOWN OF EAST HAMPTON AND/OR ENGINEER.

28. SEEDING MIXTURES:
    A. NYSDEC PERMANENT CONSTRUCTION AREA PLANTING MIXTURE #1 FROM THE NEW YORK STATE STANDARDS AND SPECIFICATIONS FOR EROSION AND SEDIMENT CONTROL (BLUE BOOK), LATEST EDITION.

SEDIMENT & EROSION CONTROL NARRATIVE

1. THE PROJECT INCLUDES THE INSTALLATION OF A 110'± AGL UNIPOLE WITH ASSOCIATED GROUND MOUNTED EQUIPMENT. ALL DISTURBED AREAS ARE TO BE SEEDED AND STABILIZED PRIOR TO THE INSTALLATION OF THE PROPOSED EQUIPMENT.

   THE PROPOSED PROJECT INVOLVES THE FOLLOWING CONSTRUCTION:
   A. CONSTRUCTION OF 110'± AGL UNIPOLE TOWER.
   B. CONSTRUCTION OF 33'±x41'± (1,353± SF) FENCED EQUIPMENT COMPOUND W/ GRAVEL SURFACE TREATMENT AND ASSOCIATED UTILITIES.
   C. CONSTRUCTION OF 10'x17' (170± SF) CONCRETE EQUIPMENT PAD.
   D. THE STABILIZATION OF PERVIOUS DISTURBED AREAS WITH PERMANENT GRASS TREATMENTS.

2. FOR THIS PROJECT, THERE ARE APPROXIMATELY 15,000± SF (0.34± AC) OF THE SITE BEING DISTURBED.

3. IT IS ANTICIPATED THAT CONSTRUCTION WILL BE COMPLETED IN APPROXIMATELY 12 WEEKS.

4. REFER TO THE CONSTRUCTION SEQUENCING AND EROSION AND SEDIMENTATION NOTES FOR INFORMATION REGARDING SEQUENCING OF MAJOR OPERATIONS IN THE ON-SITE CONSTRUCTION PHASES.

5. EROSION AND SEDIMENTATION MEASURES ARE BASED UPON ENGINEERING PRACTICE, JUDGEMENT AND THE APPLICABLE SECTIONS OF THE NEW YORK STATE STANDARDS AND SPECIFICATIONS FOR EROSION AND SEDIMENT CONTROL (BLUE BOOK), LATEST EDITION.

6. DETAILS FOR THE TYPICAL EROSION AND SEDIMENTATION MEASURES ARE SHOWN ON THIS SHEET.

7. CONSERVATION PRACTICES TO BE USED DURING CONSTRUCTION AREA:
   A. STAGED CONSTRUCTION;
   B. MINIMIZE THE DISTURBED AREAS DURING CONSTRUCTION;
   C. STABILIZE DISTURBED AREAS AS SOON AS POSSIBLE WITH TEMPORARY OR PERMANENT MEASURES;
   D. MINIMIZE IMPERVIOUS AREAS;
   E. UTILIZE APPROPRIATE CONSTRUCTION EROSION AND SEDIMENTATION MEASURES.

SUGGESTED CONSTRUCTION SEQUENCE

THE FOLLOWING SUGGESTED SEQUENCE OF CONSTRUCTION ACTIVITIES IS PROJECTED BASED UPON ENGINEERING JUDGEMENT AND BEST MANAGEMENT PRACTICES. THE CONTRACTOR MAY ELECT TO ALTER THE SEQUENCING TO BEST MEET THE CONSTRUCTION SCHEDULE, THE EXISTING SITE ACTIVITIES AND WEATHER CONDITIONS.

1. CONTACT THE OWNER TO SCHEDULE A PRE-CONSTRUCTION MEETING.

2. CONDUCT A PRE-CONSTRUCTION MEETING TO DISCUSS THE PROPOSED WORK AND EROSION AND SEDIMENTATION CONTROL MEASURES. THE MEETING SHOULD BE ATTENDED BY THE OWNER, THE OWNER REPRESENTATIVE(S), THE GENERAL CONTRACTOR, DESIGNATED SUB-CONTRACTORS AND THE PERSON, OR PERSONS, RESPONSIBLE FOR THE IMPLEMENTATION, OPERATION, MONITORING AND MAINTENANCE OF THE EROSION AND SEDIMENTATION MEASURES. THE CONSTRUCTION PROCEDURES FOR THE ENTIRE PROJECT SHALL BE REVIEWED AT THIS MEETING.

3. NOTIFY THE OWNER AT LEAST FORTY-EIGHT (48) HOURS PRIOR TO COMMENCEMENT OF ANY DEMOLITION, CONSTRUCTION OR REGULATED ACTIVITY ON THIS PROJECT. NOTIFY DIG SAFELY NEW YORK AT (800) 962-7962.

4. CLEAR AND GRUB AS REQUIRED, TO INSTALL THE PERIMETER EROSION AND SEDIMENTATION CONTROL MEASURES AND, IF APPLICABLE, TREE PROTECTION.

5. INSTALL CONSTRUCTION ENTRANCE.

6. PERFORM THE REMAINING CLEARING AND GRUBBING AS NECESSARY. REMOVE CUT WOOD AND STUMPS. CHIP BRUSH AND STOCKPILE FOR FUTURE USE OR REMOVE OFF-SITE. REMOVE AND DISPOSE OF DEMOLITION DEBRIS OFF-SITE.

7. TEMPORARILY SEED DISTURBED AREAS NOT UNDER CONSTRUCTION FOR THIRTY (30) DAYS OR MORE.

8. INSTALL ELECTRICAL CONDUIT.

9. EXCAVATE AND ROUGH GRADE EQUIPMENT COMPOUND.

10. EXCAVATE FOR UNIPOLE FOUNDATION & EQUIPMENT PAD.

11. PREPARE SUBGRADE AND INSTALL FORMS, STEEL REINFORCING, & CONCRETE FOR UNIPOLE FOUNDATION, EQUIPMENT PADS.

12. INSTALL BURIED GROUND RINGS, GROUND RODS, GROUND LEADS, UTILITY CONDUITS, & UTILITY EQUIPMENT.

13. INSTALL UNIPOLE FOUNDATION.

14. BACKFILL UNIPOLE FOUNDATION.

15. INSTALL EQUIPMENT PAD.

16. INSTALL UNIPOLE.

17. INSTALL EQUIPMENT.

18. INSTALL COMPOUND GRAVEL SURFACES.

19. FINALIZE GRADES. INSTALL GRAVEL SURFACES.

20. INSTALL PERIMETER CHAIN LINK FENCE.

21. CONNECT GROUNDING LEADS & LIGHTENING PROTECTION.

22. FINE GRADE, RAKE, SEED AND MULCH ALL REMAINING DISTURBED AREAS.

23. TEST ALL NEW EQUIPMENT.

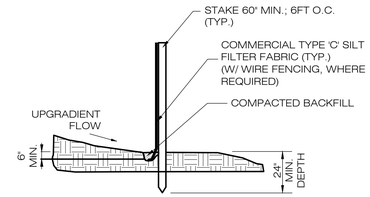
24. AFTER THE SITE IS STABILIZED AND WITH THE APPROVAL OF THE OWNER, REMOVE PERIMETER EROSION AND SEDIMENTATION CONTROLS.

25. PERFORM PROJECT CLEANUP

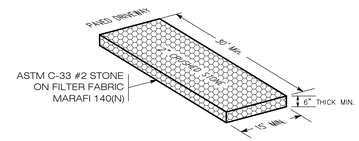
THE ESTIMATED TIME FOR THE COMPLETION OF THE WORK IS APPROXIMATELY TWELVE (12) WEEKS. THE EXACT PROCESS MAY VARY DEPENDING ON THE CONTRACTORS & SUBCONTRACTORS AVAILABILITY TO COMPLETE WORK & WEATHER DELAYS.

CONSTRUCTION OPERATION AND MAINTENANCE PLAN - BY CONTRACTOR

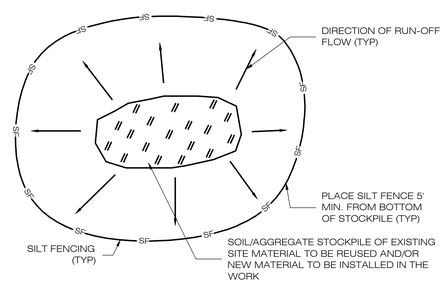
E&S MEASURE	INSPECTION SCHEDULE	MAINTENANCE REQUIRED
SILT FENCE	WEEKLY & WITHIN 24 HOURS OF RAINFALL > 0.2"	REPAIR/REPLACE WHEN FAILURE, OR OBSERVED DETERIORATION, IS OBSERVED. REMOVE SILT WHEN IT REACHES 1/2 THE HEIGHT OF THE FENCE.
TEMPORARY SOIL PROTECTION	WEEKLY & WITHIN 24 HOURS OF RAINFALL > 0.2"	REPAIR ERODED OR BARE AREAS IMMEDIATELY. RESEED AND MULCH.



1 / EC-1 GEOTEXTILE SILT FENCE DETAIL
SCALE : NTS



2 / EC-1 CONSTRUCTION ENTRANCE (CE) DETAIL
SCALE : N.T.S.



NOTES:
1. ALL EXISTING EXCAVATED MATERIAL THAT IS NOT TO BE REUSED IN THE WORK IS TO BE IMMEDIATELY REMOVED FROM THE SITE AND PROPERLY DISPOSED OF.

2. SOIL/AGGREGATE STOCKPILE SITES TO BE WHERE SHOWN ON THE DRAWINGS.

3. RESTORE STOCKPILE SITES TO PRE-EXISTING PROJECT CONDITION AND RESEED AS REQUIRED.

4. STOCKPILE HEIGHTS MUST NOT EXCEED 35'. STOCKPILE SLOPES MUST BE 2:1 OR FLATTER.

5. ANY SOIL IN STOCKPILES IN EXCESS OF SEVEN (7) DAYS SHALL BE SEEDED AND MULCHED OR COVERED.

3 / EC-1 TEMPORARY STOCKPILE DETAIL
SCALE : N.T.S.

verizon
4 CENTEROCK ROAD
WEST NYACK, NY 10994

APT ENGINEERING
567 VAUXHAUL STREET EXTENSION - SUITE 311
WATERFORD, CT 06385 PHONE: (860)-663-1697
WWW.ALLPOINTSTECH.COM FAX: (860)-663-0935

PERMITTING DOCUMENTS

NO	DATE	REVISION
0	04/15/19	FOR REVIEW: RCB
1	05/08/19	ATTORNEY REVISIONS: RCB
2	07/17/19	ATTORNEY REVISIONS: RCB
3	03/06/20	REVISED LAYOUT: RCB
4	03/12/20	ATTORNEY REVISIONS: RCB
5	03/19/20	ATTORNEY REVISIONS: RCB
6	03/30/20	ATTORNEY REVISIONS: RCB
7	06/19/20	TOWN COMMENTS: RCB
8	07/24/20	FOR REVIEW: RCB
9	07/29/20	FOR REVIEW: RCB
10	07/31/20	ATTORNEY REVISIONS: RCB

DESIGN PROFESSIONALS OF RECORD
PROF: SCOTT M. CHASSE P.E.
COMP: APT ENGINEERING
ADD: 567 VAUXHAUL STREET EXTENSION - SUITE311 WATERFORD, CT 06385

OWNER: TOWN OF EAST HAMPTON
ADDRESS: 159 PANTIGO ROAD EAST HAMPTON, NY 11937

NOTE:
IT IS A VIOLATION OF NEW YORK STATE EDUCATION LAW ARTICLE 145, SECTION 7209 (2) FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER OR LAND SURVEYOR, TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE SEAL OF AN ENGINEER OR LAND SURVEYOR IS ALTERED, THE ALTERING ENGINEER OR LAND SURVEYOR SHALL AFFIX TO THE ITEM HIS SEAL AND THE NOTATION "ALTERED BY" FOLLOWED BY THE SIGNATURE AND THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

VERIZON WIRELESS AT "WAINSCOTT 3"

SITE ADDRESS: 106 STEPHEN HANDS PATH WAINSCOTT, NY 11937

APT FILING NUMBER: NY141NB3300

PROJECT CODE: 20171584246

LOCATION CODE: 446966

VZ CM: OZ	DRAWN BY: ELZ
DATE: 04/15/19	CHECKED BY: RCB

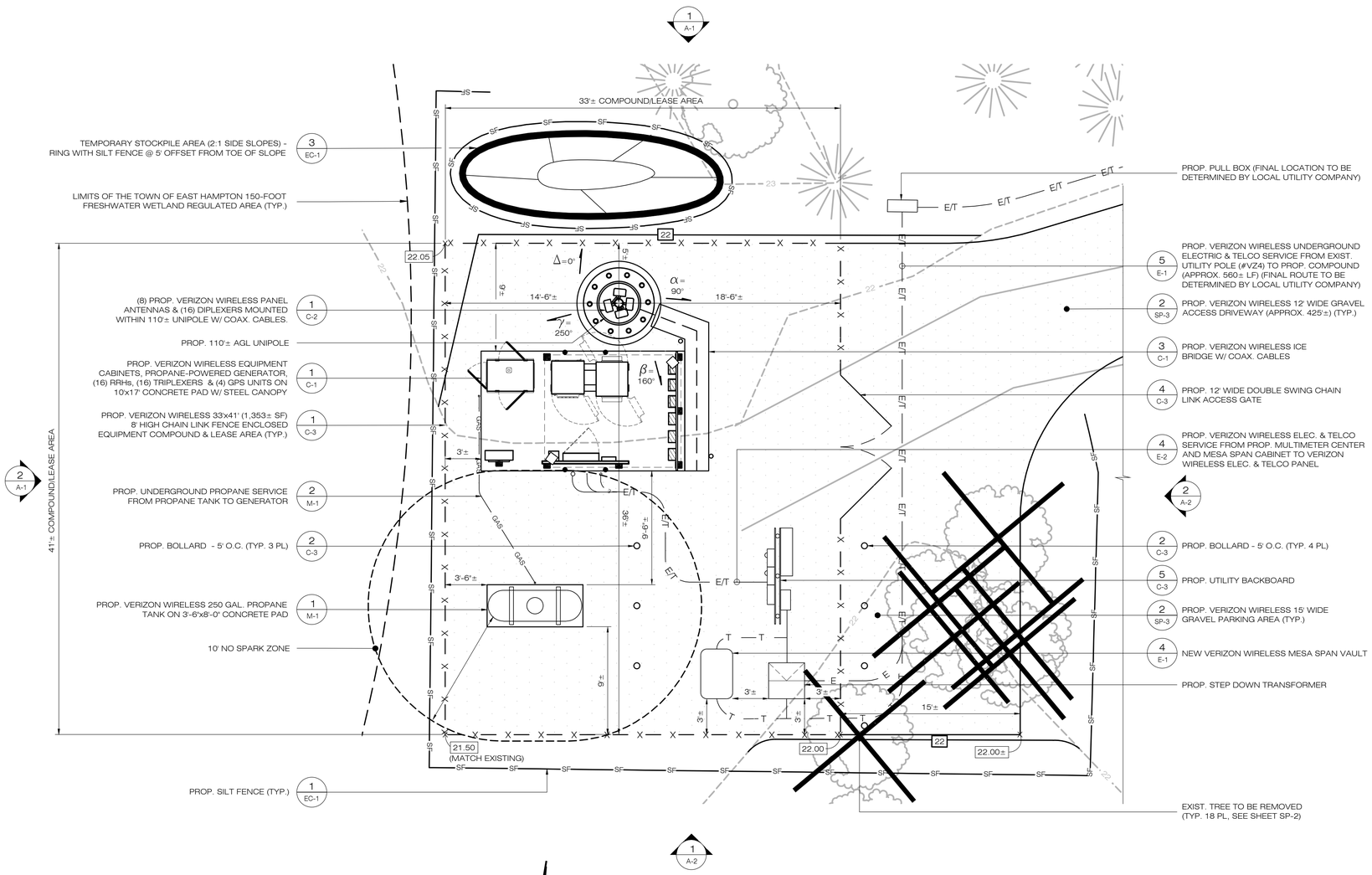
SHEET TITLE:

EROSION CONTROL NOTES & DETAILS

SHEET NUMBER:

EC-1

STATE OF NEW YORK · SCOTT M. CHASSE · 078653 · LICENSED PROFESSIONAL ENGINEER



1 CP-1 COMPOUND PLAN

SCALE : 1" = 5'-0"

5 0 2.5 5 10
(IN FEET) 1 inch = 5 ft.

verizon

4 CENTEROCK ROAD
WEST NYACK, NY 10994

APT ENGINEERING

567 VAUXHAUL STREET EXTENSION - SUITE 311
WATERFORD, CT 06385 PHONE: (860)-663-1697
WWW.ALLPOINTSTECH.COM FAX: (860)-663-0935

PERMITTING DOCUMENTS

NO	DATE	REVISION
0	04/15/19	FOR REVIEW: RCB
1	05/08/19	ATTORNEY REVISIONS: RCB
2	07/17/19	ATTORNEY REVISIONS: RCB
3	03/06/20	REVISED LAYOUT: RCB
4	03/12/20	ATTORNEY REVISIONS: RCB
5	03/19/20	ATTORNEY REVISIONS: RCB
6	03/30/20	ATTORNEY REVISIONS: RCB
7	06/19/20	TOWN COMMENTS: RCB
8	07/24/20	FOR REVIEW: RCB
9	07/29/20	FOR REVIEW: RCB
10	07/31/20	ATTORNEY REVISIONS: RCB

DESIGN PROFESSIONALS OF RECORD

PROF: SCOTT M. CHASSE P.E.
COMP: APT ENGINEERING
ADD: 567 VAUXHAUL STREET EXTENSION - SUITE311 WATERFORD, CT 06385

OWNER: TOWN OF EAST HAMPTON
ADDRESS: 159 PANTIGO ROAD EAST HAMPTON, NY 11937

NOTE:
IT IS A VIOLATION OF NEW YORK STATE EDUCATION LAW ARTICLE 145, SECTION 7209 (2) FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER OR LAND SURVEYOR, TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE SEAL OF AN ENGINEER OR LAND SURVEYOR IS ALTERED, THE ALTERING ENGINEER OR LAND SURVEYOR SHALL AFFIX TO THE ITEM HIS SEAL AND THE NOTATION "ALTERED BY" FOLLOWED BY THE SIGNATURE AND THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

VERIZON WIRELESS AT "WAINSCOTT 3"

SITE ADDRESS: 106 STEPHEN HANDS PATH WAINSCOTT, NY 11937

APT FILING NUMBER: NY141NB3300

PROJECT CODE: 20171584246

LOCATION CODE: 446966

VZ CM: OZ	DRAWN BY: ELZ
DATE: 04/15/19	CHECKED BY: RCB

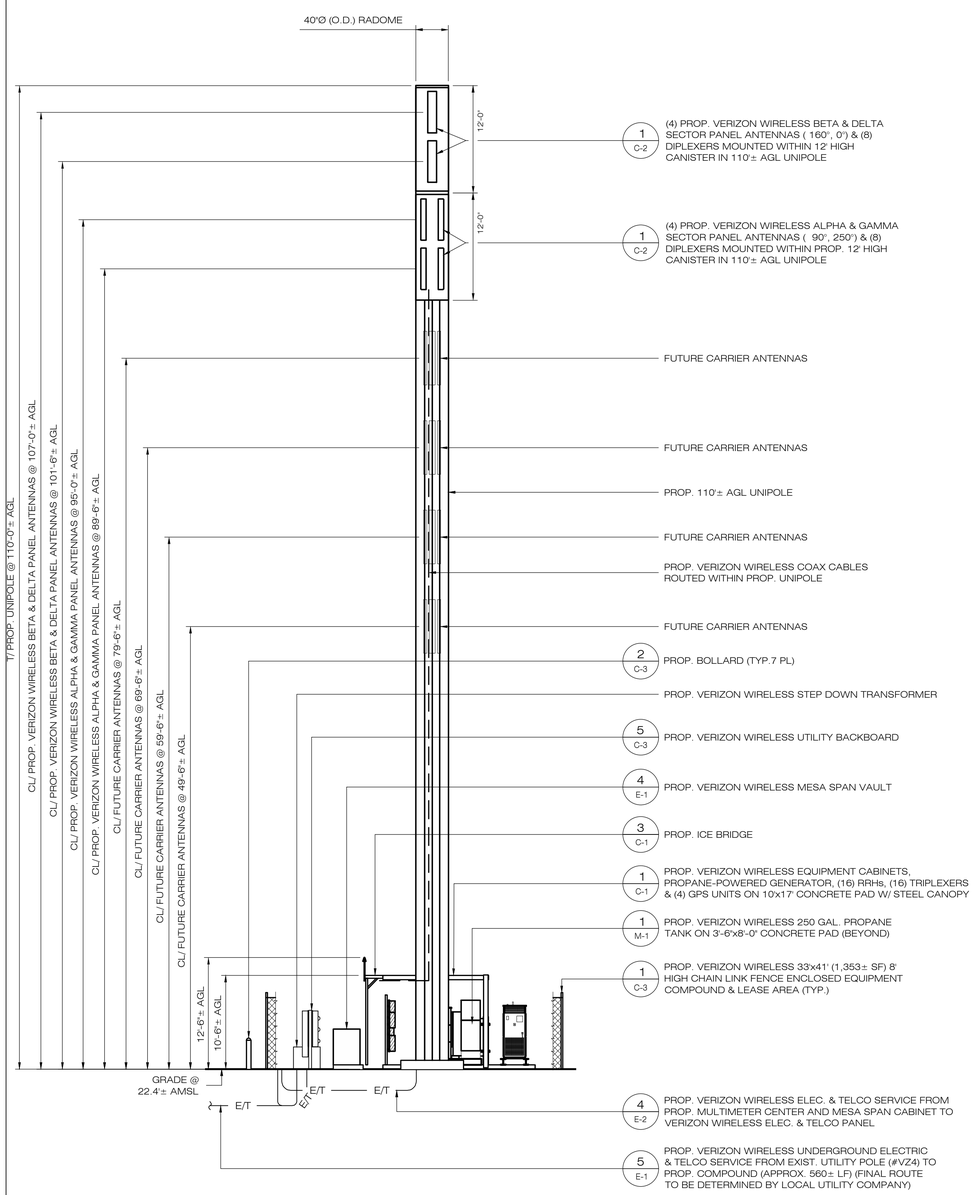
SHEET TITLE:

COMPOUND PLAN

SHEET NUMBER:

CP-1

STATE OF NEW YORK · SCOTT M. CHASSE · 078603 · LICENSED PROFESSIONAL ENGINEER

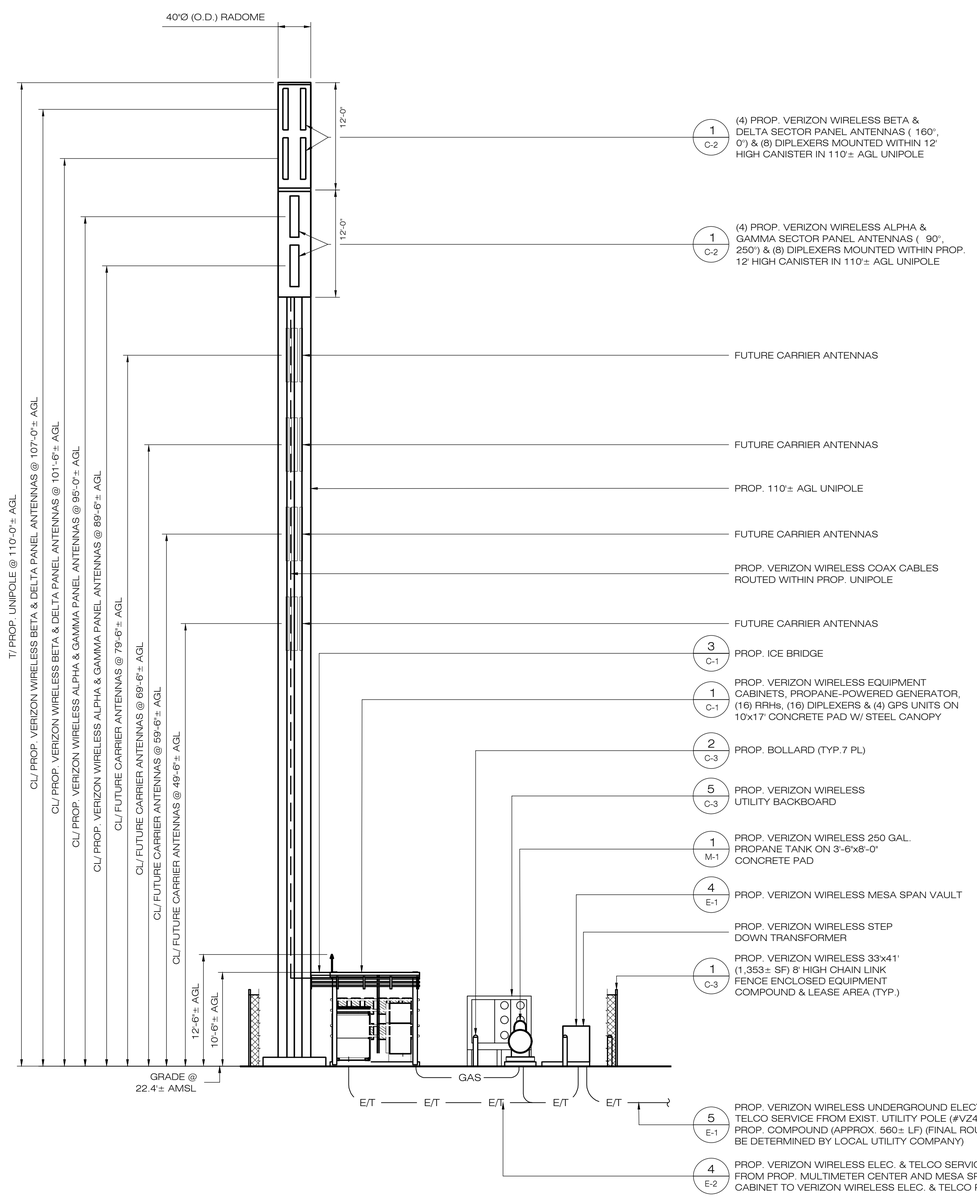


1 A-1 NORTH ELEVATION

SCALE : ⅛" = 1'-0"

8' 0 4' 8' 16'

⅛" SCALE: 1 INCH= 8'-0"



2 A-1 WEST ELEVATION

SCALE : ⅛" = 1'-0"

8' 0 4' 8' 16'

⅛" SCALE: 1 INCH= 8'-0"

verizon

4 CENTEROCK ROAD
WEST NYACK, NY 10994

APT ENGINEERING

567 VAUXHAUL STREET EXTENSION - SUITE 311
WATERFORD, CT 06385 PHONE: (860)-663-1697
WWW.ALLPOINTSTECH.COM FAX: (860)-663-0935

PERMITTING DOCUMENTS

NO	DATE	REVISION
0	04/15/19	FOR REVIEW: RCB
1	05/08/19	ATTORNEY REVISIONS: RCB
2	07/17/19	ATTORNEY REVISIONS: RCB
3	03/06/20	REVISED LAYOUT: RCB
4	03/12/20	ATTORNEY REVISIONS: RCB
5	03/19/20	ATTORNEY REVISIONS: RCB
6	03/30/20	ATTORNEY REVISIONS: RCB
7	06/19/20	TOWN COMMENTS: RCB
8	07/24/20	FOR REVIEW: RCB
9	07/29/20	FOR REVIEW: RCB
10	07/31/20	ATTORNEY REVISIONS: RCB

DESIGN PROFESSIONALS OF RECORD

PROF: SCOTT M. CHASSE P.E.
COMP: APT ENGINEERING
ADD: 567 VAUXHAUL STREET EXTENSION - SUITE311 WATERFORD, CT 06385

OWNER: TOWN OF EAST HAMPTON
ADDRESS: 159 PANTIGO ROAD EAST HAMPTON, NY 11937

NOTE:
IT IS A VIOLATION OF NEW YORK STATE EDUCATION LAW ARTICLE 145, SECTION 7209 (2) FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER OR LAND SURVEYOR, TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE SEAL OF AN ENGINEER OR LAND SURVEYOR IS ALTERED, THE ALTERING ENGINEER OR LAND SURVEYOR SHALL AFFIX TO THE ITEM HIS SEAL AND THE NOTATION "ALTERED BY" FOLLOWED BY THE SIGNATURE AND THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

VERIZON WIRELESS AT "WAINSCOTT 3"

SITE ADDRESS: 106 STEPHEN HANDS PATH WAINSCOTT, NY 11937

APT FILING NUMBER: NY141NB3300

PROJECT CODE: 20171584246

LOCATION CODE: 446966

VZ CM: OZ	DRAWN BY: ELZ
DATE: 04/15/19	CHECKED BY: RCB

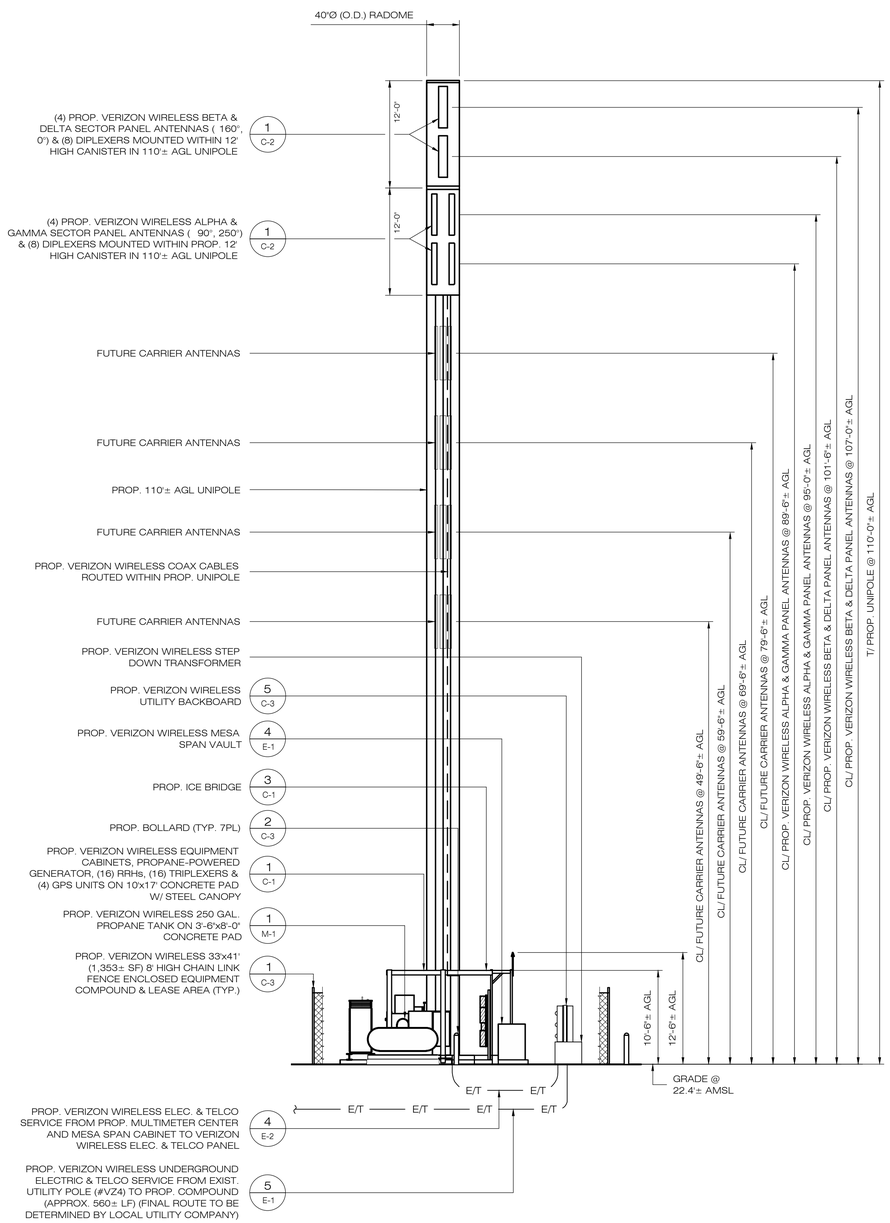
SHEET TITLE:

ELEVATIONS

SHEET NUMBER:

A-1

STATE OF NEW YORK · SCOTT M. CHASSE · 073603 · LICENSED PROFESSIONAL ENGINEER

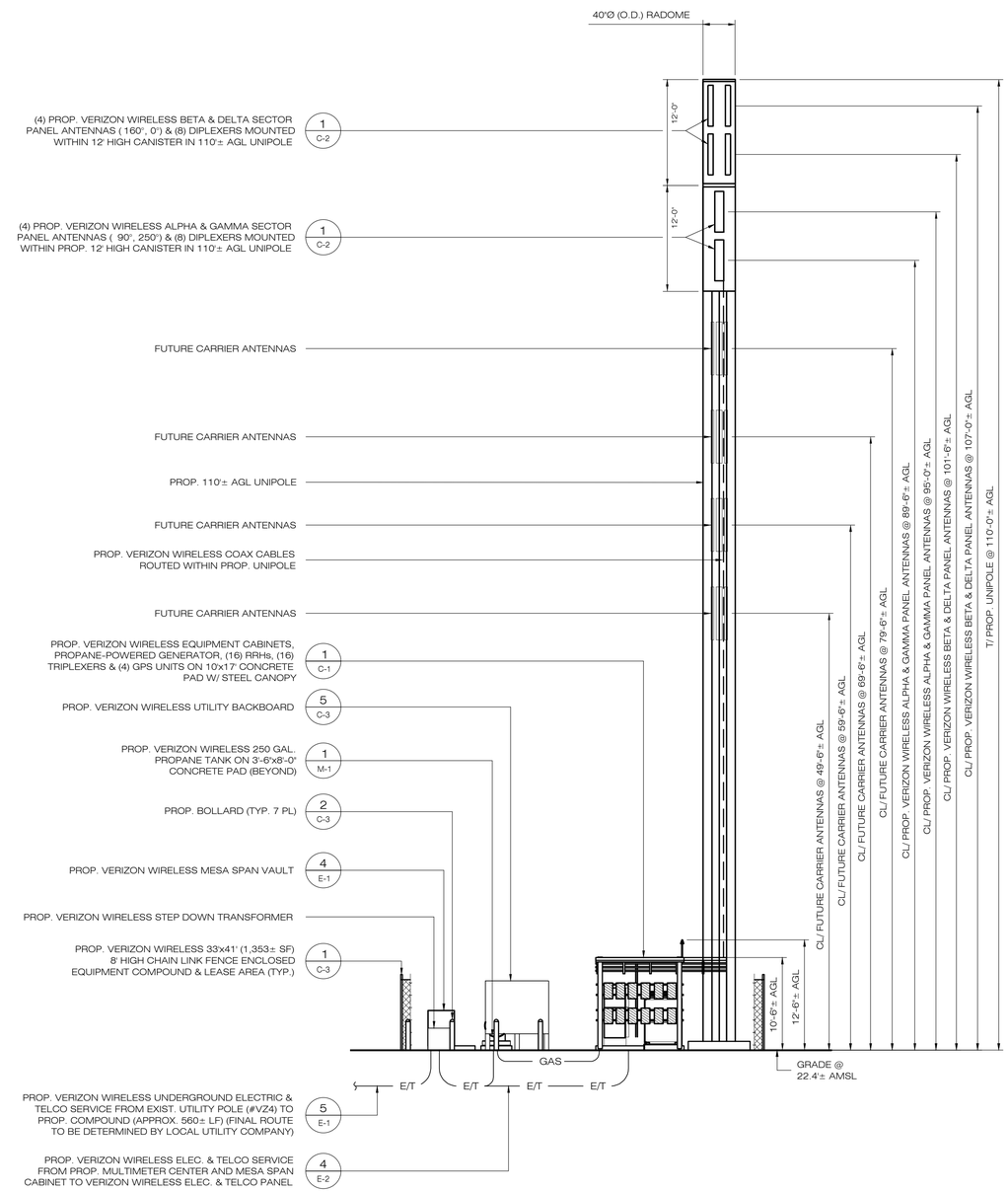


1 A-2 SOUTH ELEVATION

SCALE : ⅛" = 1'-0"

8' 0 4' 8' 16'

⅛" SCALE: 1 INCH= 8'-0"



2 A-2 EAST ELEVATION

SCALE : ⅛" = 1'-0"

8' 0 4' 8' 16'

⅛" SCALE: 1 INCH= 8'-0"

verizon

4 CENTEROCK ROAD
WEST NYACK, NY 10994

APT ENGINEERING
567 VAUXHAUL STREET EXTENSION - SUITE 311
WATERFORD, CT 06385 PHONE: (860)-663-1697
WWW.ALLPOINTSTECH.COM FAX: (860)-663-0935

PERMITTING DOCUMENTS

NO	DATE	REVISION
0	04/15/19	FOR REVIEW: RCB
1	05/08/19	ATTORNEY REVISIONS: RCB
2	07/17/19	ATTORNEY REVISIONS: RCB
3	03/06/20	REVISED LAYOUT: RCB
4	03/12/20	ATTORNEY REVISIONS: RCB
5	03/19/20	ATTORNEY REVISIONS: RCB
6	03/30/20	ATTORNEY REVISIONS: RCB
7	06/19/20	TOWN COMMENTS: RCB
8	07/24/20	FOR REVIEW: RCB
9	07/29/20	FOR REVIEW: RCB
10	07/31/20	ATTORNEY REVISIONS: RCB

DESIGN PROFESSIONALS OF RECORD

PROF: SCOTT M. CHASSE P.E.
COMP: APT ENGINEERING
ADD: 567 VAUXHAUL STREET EXTENSION - SUITE311 WATERFORD, CT 06385

OWNER: TOWN OF EAST HAMPTON
ADDRESS: 159 PANTIGO ROAD EAST HAMPTON, NY 11937

NOTE:
IT IS A VIOLATION OF NEW YORK STATE EDUCATION LAW ARTICLE 145, SECTION 7209 (2) FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER OR LAND SURVEYOR, TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE SEAL OF AN ENGINEER OR LAND SURVEYOR IS ALTERED, THE ALTERING ENGINEER OR LAND SURVEYOR SHALL AFFIX TO THE ITEM HIS SEAL AND THE NOTATION "ALTERED BY" FOLLOWED BY THE SIGNATURE AND THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

VERIZON WIRELESS AT "WAINSCOTT 3"

SITE ADDRESS: 106 STEPHEN HANDS PATH WAINSCOTT, NY 11937

APT FILING NUMBER: NY141NB3300

PROJECT CODE: 20171584246

LOCATION CODE: 446966

VZ CM: OZ	DRAWN BY: ELZ
DATE: 04/15/19	CHECKED BY: RCB

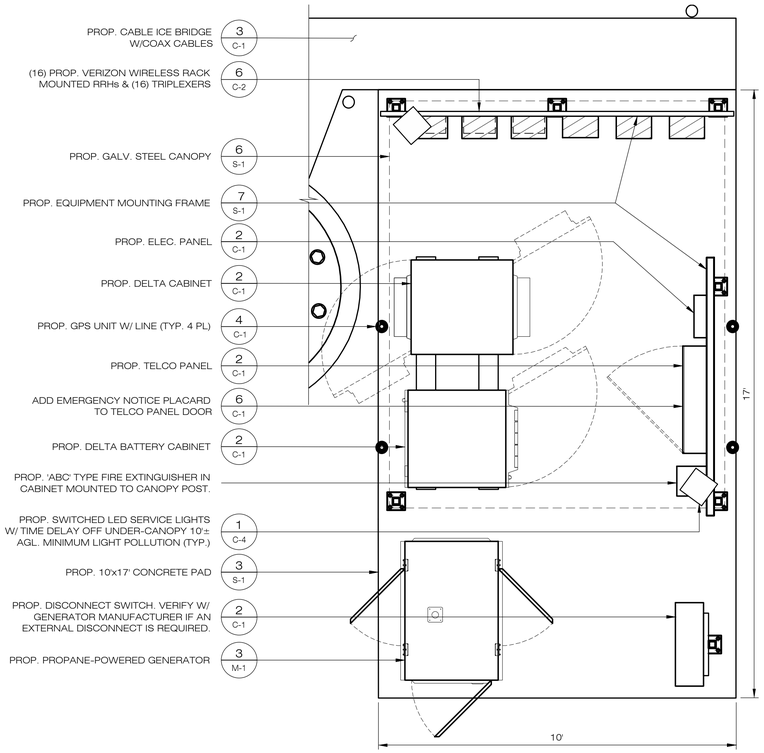
SHEET TITLE:

ELEVATIONS

SHEET NUMBER:

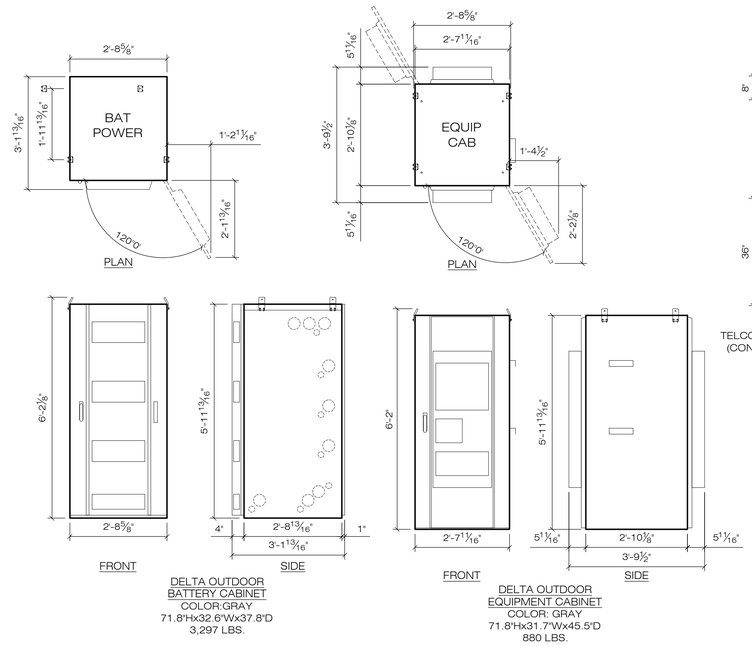
A-2

STATE OF NEW YORK · SCOTT M. CHASSE · 078603 · LICENSED PROFESSIONAL ENGINEER



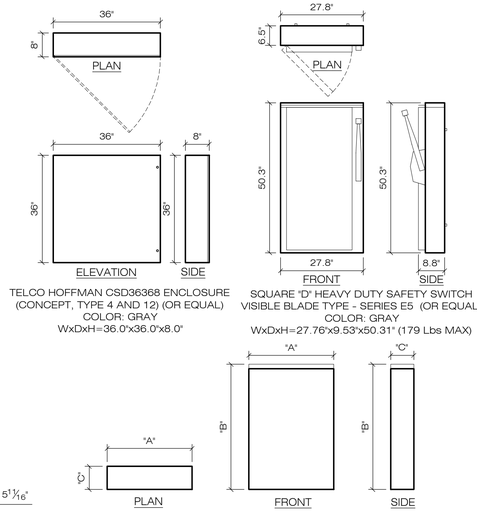
1 C-1 EQUIPMENT PAD

SCALE : ½" = 1'-0"



DELTA OUTDOOR BATTERY CABINET
COLOR:GRAY
71.8"Hx32.6"Wx37.8"D
3,297 LBS.

DELTA OUTDOOR EQUIPMENT CABINET
COLOR: GRAY
71.8"Hx31.7"Wx45.5"D
880 LBS.



TELCO HOFFMAN CSD36368 ENCLOSURE
(CONCEPT, TYPE 4 AND 12) (OR EQUAL)
COLOR: GRAY
WxDxH=36.0"x36.0"x8.0"

SQUARE "D" HEAVY DUTY SAFETY SWITCH
VISIBLE BLADE TYPE - SERIES E5 (OR EQUAL)
COLOR: GRAY
WxDxH=27.76"x9.53"x50.31" (179 Lbs MAX)

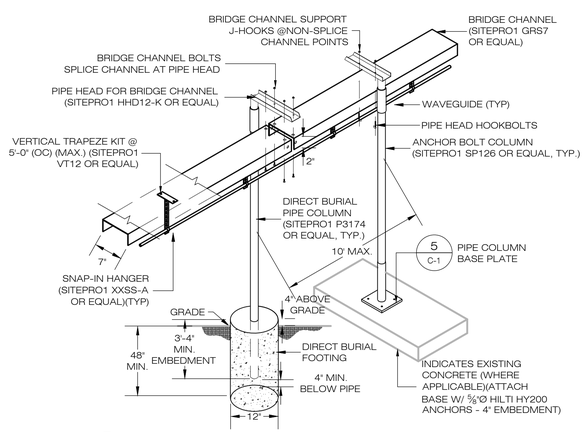
SQUARE "D" POWER PANELS (SEE UP-FRONT ELEC. AUDIT FOR REQ.)

OUTDOOR LOAD CENTER (TYPE NEMA 3R) (OR EQUAL) COLOR: GRAY

PART NUMBER	SPA	MAIN	AMP	PH	"A"	"B"	"C"	(SF)	BUS
QO13040L200GRB	30	LUG	200A	1Ø	14.76"	29.84"	4.25"	0.44±	COP
QO330ML2RB	30	LUG	200A	3Ø	14.21"	30.31"	4.25"	0.42±	COP

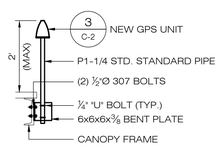
2 C-1 EQUIPMENT DETAILS

SCALE : N.T.S.



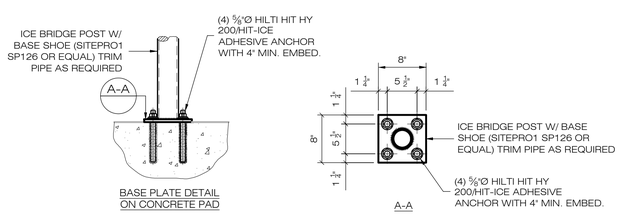
3 C-1 CABLE BRIDGE & COAX HANGER DETAIL

SCALE : NTS



4 C-1 GPS MOUNT

SCALE : N.T.S.



5 C-1 PIPE BASE PLATE

SCALE : N.T.S.

(WHITE METAL SIGN WITH BLACK LETTERING)

6 C-1 TYPICAL EMERGENCY NOTICE

SCALE : N.T.S.

verizon

4 CENTEROCK ROAD
WEST NYACK, NY 10994

APT ENGINEERING
567 VAUXHAUL STREET EXTENSION - SUITE 311
WATERFORD, CT 06385 PHONE: (860)-663-1697
WWW.ALLPOINTSTECH.COM FAX: (860)-663-0935

PERMITTING DOCUMENTS

NO	DATE	REVISION
0	04/15/19	FOR REVIEW: RCB
1	05/08/19	ATTORNEY REVISIONS: RCB
2	07/17/19	ATTORNEY REVISIONS: RCB
3	03/06/20	REVISED LAYOUT: RCB
4	03/12/20	ATTORNEY REVISIONS: RCB
5	03/19/20	ATTORNEY REVISIONS: RCB
6	03/30/20	ATTORNEY REVISIONS: RCB
7	06/19/20	TOWN COMMENTS: RCB
8	07/24/20	FOR REVIEW: RCB
9	07/29/20	FOR REVIEW: RCB
10	07/31/20	ATTORNEY REVISIONS: RCB

DESIGN PROFESSIONALS OF RECORD

PROF: SCOTT M. CHASSE P.E.
COMP: APT ENGINEERING
ADD: 567 VAUXHAUL STREET EXTENSION - SUITE311 WATERFORD, CT 06385

OWNER: TOWN OF EAST HAMPTON
ADDRESS: 159 PANTIGO ROAD EAST HAMPTON, NY 11937

NOTE:
IT IS A VIOLATION OF NEW YORK STATE EDUCATION LAW ARTICLE 145, SECTION 7209 (2) FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER OR LAND SURVEYOR, TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE SEAL OF AN ENGINEER OR LAND SURVEYOR IS ALTERED, THE ALTERING ENGINEER OR LAND SURVEYOR SHALL AFFIX TO THE ITEM HIS SEAL AND THE NOTATION "ALTERED BY" FOLLOWED BY THE SIGNATURE AND THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

VERIZON WIRELESS AT "WAINSCOTT 3"

SITE ADDRESS: 106 STEPHEN HANDS PATH WAINSCOTT, NY 11937

APT FILING NUMBER: NY141NB3300

PROJECT CODE: 20171584246

LOCATION CODE: 446966

VZ CM: OZ	DRAWN BY: ELZ
DATE: 04/15/19	CHECKED BY: RCB

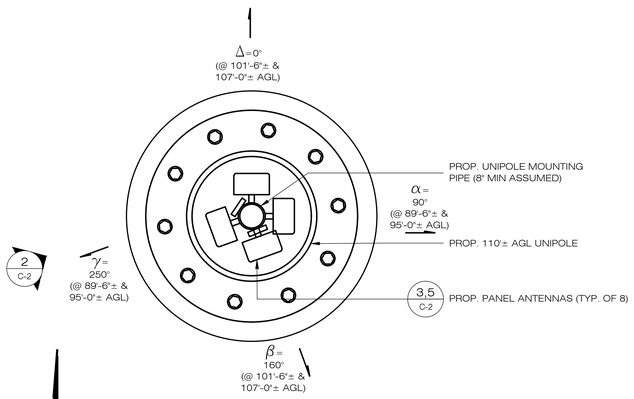
SHEET TITLE:

EQUIPMENT SPACE PLAN & DETAILS

SHEET NUMBER:

C-1

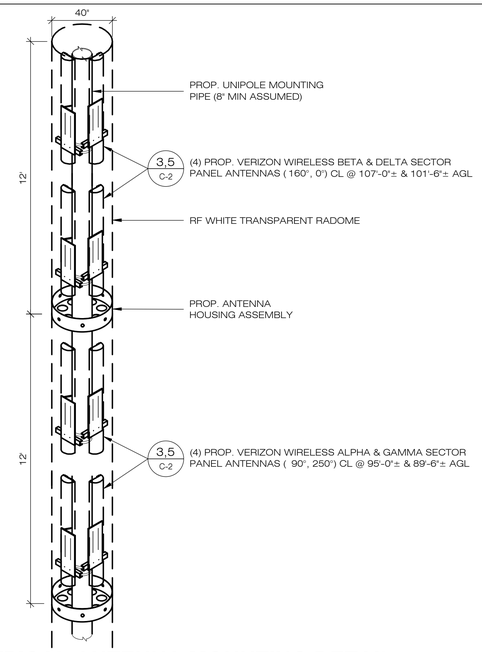
STATE OF NEW YORK · SCOTT M. CHASSE · 078603 · LICENSED PROFESSIONAL ENGINEER



1 C-2 ANTENNA MOUNTING DETAIL

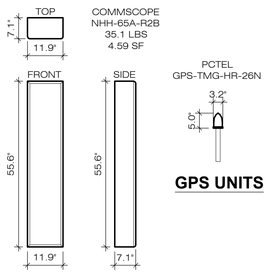
SCALE : ½" = 1'-0"

NOTE:
THE DIMENSIONS OF THE NEW ANTENNAS ARE APPROXIMATE AND SUBJECT TO CHANGE BASED ON THE AVAILABILITY OF ANTENNAS AT TIME OF CONSTRUCTION.



2 C-2 TYPICAL ANTENNA MOUNTING DETAIL

SCALE : NTS



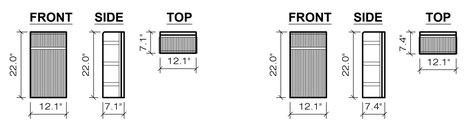
GPS UNITS

PANEL ANTENNAS

3 C-2 ANTENNA DETAIL

SCALE : ½" = 1'-0

NOTE:
1) RRH=REMOTE RADIO HEAD
2) MDB=MAIN DISTRIBUTION BOX



NOKIA AHFIC AIRSCALE DUAL RRH (OR EQUAL)
4T4R B2/66A 320W AWS/PCS
REMOTE RADIO HEAD (RRH)
WxDxH=12.1"x7.1"x22.0" (79± Lbs)

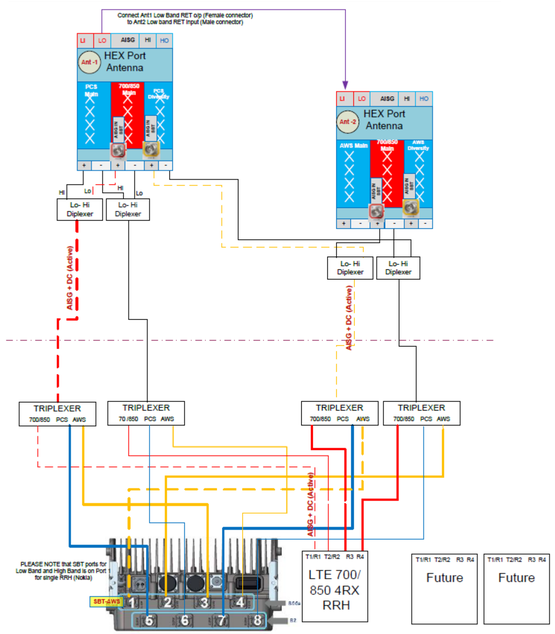
NOKIA AHBCC AIRSCALE DUAL RRH (OR EQUAL)
4T4R B5/13 320W 700/850 LTE
REMOTE RADIO HEAD (RRH)
WxDxH=12.1"x7.4"x22.0" (84± Lbs)

NOTES:
1. DIMENSIONS SUBJECT TO CHANGE BASED UPON AVAILABILITY AT TIME OF CONSTRUCTION.
2. MANUFACTURER'S RECOMMENDED RRH CLEARANCES: FRONT: 36"; SIDES: 12"; BOTTOM: 24"
3. SFPs ARE PROTOCOL SPECIFIC. THE CONNECTIONS BETWEEN RRHs AND BBUs ARE CPRI CONNECTIONS, AND REQUIRE CPRI SFP (ON BOTH ENDS). THE CONNECTIONS BETWEEN BBUs AND 7705 ARE ETHERNET AND REQUIRE ETHERNET SFP (ON BOTH ENDS.)

4 C-2 RRH EQUIPMENT

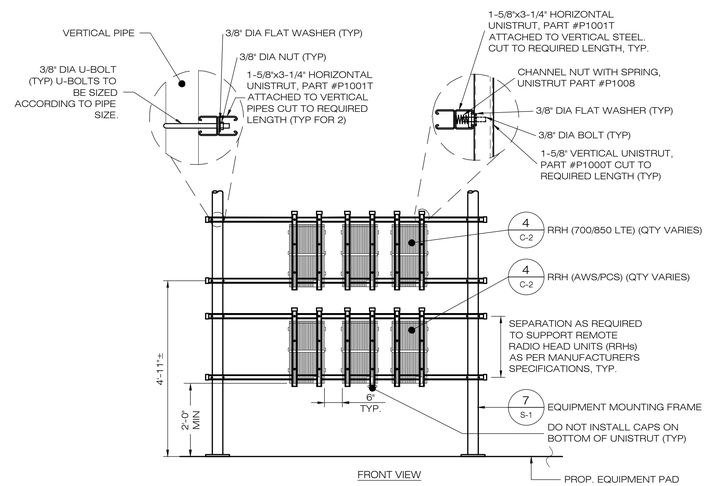
SCALE : ½" = 1'-0"

MONOPOLE. STEALTH ANTENNAS



5 C-2 TYPICAL RISER DIAGRAM

SCALE : NTS



NOTES:
1. ALL EXPOSED UNISTRUT ENDS TO BE CAPPED WITH UNISTRUT CAP (MODEL #P2860-10).
2. ONLY 3-1/4" (HORIZONTAL) & 1-5/8" (VERTICAL) UNISTRUT TO BE USED FOR RACK CONSTRUCTION.
3. EXTEND UNISTRUT AS NEEDED BASED ON LENGTH OF ANTENNA SECTOR. DO NOT CANTILEVER UNISTRUT FOR MORE THAN 24" BEYOND CANOPY POST.
4. FOR SPANS GREATER THAN 5'-0" USE UNISTRUT PART #P1001.

6 C-2 RRH EQUIPMENT MOUNTING @ EQUIPMENT PAD

SCALE : ½" = 1'-0"

ANTENNA DATA

PROP. ANTENNA SPECIFICATIONS

SECTOR	MODEL	QTY	E-D - TILT	M-D - TILT	ANTENNA STATUS	CABLE SIZE	CABLE LENGTH	AZIMUTH
ALPHA	COMMSCOPE NHH-65A-R2B COMMSCOPE NHH-65A-R2B	1 1	0° 0°	0° 0°	NEW NEW	ADD (4) 7/8" COAX CABLE	140'±	90°
BETA	COMMSCOPE NHH-65A-R2B COMMSCOPE NHH-65A-R2B	1 1	0° 0°	0° 0°	NEW NEW	ADD (4) 7/8" COAX CABLE	140'±	160°
GAMMA	COMMSCOPE NHH-65A-R2B COMMSCOPE NHH-65A-R2B	1 1	0° 0°	0° 0°	NEW NEW	ADD (4) 7/8" COAX CABLE	140'±	250°
DELTA	COMMSCOPE NHH-65A-R2B COMMSCOPE NHH-65A-R2B	1 1	0° 0°	0° 0°	NEW NEW	ADD (4) 7/8" COAX CABLE	140'±	0°
GPS	PCTEL GPS-TMG-HR-26N	(4) NEW				ADD (4) ½"	15'±	N/A

NOTES:
(1) CONTRACTOR SHALL PROVIDE MECHANICAL DOWNTILT BRACKETS.
(2) CONTRACTOR TO FIELD VERIFY ALL CABLE LENGTHS PRIOR TO ORDERING NEW CABLE. (TYP. EACH SECTOR)
(3) VERIFY CABLE DIAMETER WITH VERIZON PRIOR TO ORDERING.
(4) CONTRACTOR SHALL CONFIRM GPS UNIT MODEL AND CABLE WITH VERIZON.
(5) CONTRACTOR SHALL INSTALL WEATHERPROOF CAPS ON ALL UNUSED PORTS, SWEEP TEST THE UNUSED PORTS/ANTENNAS, AND PROVIDE RESULTS IN SWEEPS PACKAGE.

SECTOR:	ALPHA	BETA	GAMMA	DELTA	EPSILON	ZETA
BASE COLOR:	WHITE	BLUE	GREEN	WHITE/BLK STRIPE	WHITE/RED STRIPE	WHITE/GRN STRIPE
850-CELL:	GRAY	GRAY	GRAY	GRAY	GRAY	GRAY
PCS-EVDO:	PURPLE	PURPLE	PURPLE	PURPLE	PURPLE	PURPLE
700-LTE:	RED	RED	RED	RED	RED	RED
850-LTE:	LIGHT GREEN	LIGHT GREEN	LIGHT GREEN	LIGHT GREEN	LIGHT GREEN	LIGHT GREEN
AWS-LTE:	YELLOW	YELLOW	YELLOW	YELLOW	YELLOW	YELLOW
PCS LTE:	LIGHT BLUE	LIGHT BLUE	LIGHT BLUE	LIGHT BLUE	LIGHT BLUE	LIGHT BLUE
GPS:	BROWN					

PROPOSED EQUIPMENT:	COLOR	MATERIAL
MONOPOLE	WHITE	STEEL
CHAIN LINK FENCE	SILVER	STEEL
EQUIPMENT CANOPY	SILVER	STEEL
CABLE BRIDGE	SILVER	STEEL
DELTA EQUIPMENT CABINET	BEIGE	STEEL
DELTA BATTERY CABINET	BEIGE	STEEL
TELCO PANEL	BEIGE	STEEL
ELECTRIC PANEL	BEIGE	STEEL
DISCONNECT SWITCH	BEIGE	STEEL
PROPANE-POWERED GENERATOR	GRAY	STEEL
UTILITY RACK	SILVER	STEEL
ANTENNA MOUNTING ASSEMBLY	SILVER	PLASTIC
ANTENNAS	GRAY	PLASTIC
MAIN DISTRIBUTION BOX	WHITE	PLASTIC
GPS UNITS	SILVER	STEEL
GPS UNIT MOUNT	DARK GRAY	PLASTIC
REMOTE RADIO HEADS	TAUP/GREY	STEEL
HYBRID CABLES	BLACK	PVC JACKET

verizon
4 CENTEROCK ROAD
WEST NYACK, NY 10994

APT ENGINEERING
567 VAUXHAUL STREET EXTENSION - SUITE 311
WATERFORD, CT 06385 PHONE: (860)-663-1697
WWW.ALLPOINTSTECH.COM FAX: (860)-663-0935

PERMITTING DOCUMENTS

NO	DATE	REVISION
0	04/15/19	FOR REVIEW: RCB
1	05/08/19	ATTORNEY REVISIONS: RCB
2	07/17/19	ATTORNEY REVISIONS: RCB
3	03/06/20	REVISED LAYOUT: RCB
4	03/12/20	ATTORNEY REVISIONS: RCB
5	03/19/20	ATTORNEY REVISIONS: RCB
6	03/30/20	ATTORNEY REVISIONS: RCB
7	06/19/20	TOWN COMMENTS: RCB
8	07/24/20	FOR REVIEW: RCB
9	07/29/20	FOR REVIEW: RCB
10	07/31/20	ATTORNEY REVISIONS: RCB

DESIGN PROFESSIONALS OF RECORD

PROF: SCOTT M. CHASSE P.E.
COMP: APT ENGINEERING
ADD: 567 VAUXHAUL STREET
EXTENSION - SUITE311
WATERFORD, CT 06385

OWNER: TOWN OF EAST HAMPTON
ADDRESS: 159 PANTIGO ROAD
EAST HAMPTON, NY 11937

NOTE:
IT IS A VIOLATION OF NEW YORK STATE EDUCATION LAW ARTICLE 145, SECTION 7209 (2) FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER OR LAND SURVEYOR, TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE SEAL OF AN ENGINEER OR LAND SURVEYOR IS ALTERED, THE ALTERING ENGINEER OR LAND SURVEYOR SHALL AFFIX TO THE ITEM HIS SEAL AND THE NOTATION "ALTERED BY" FOLLOWED BY THE SIGNATURE AND THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

VERIZON WIRELESS AT
"WAINSCOTT 3"

SITE ADDRESS: 106 STEPHEN HANDS PATH
WAINSCOTT, NY 11937

APT FILING NUMBER: NY141NB3300

PROJECT CODE: 20171584246

LOCATION CODE: 446966

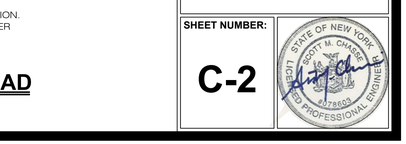
VZ CM: OZ	DRAWN BY: ELZ
DATE: 04/15/19	CHECKED BY: RCB

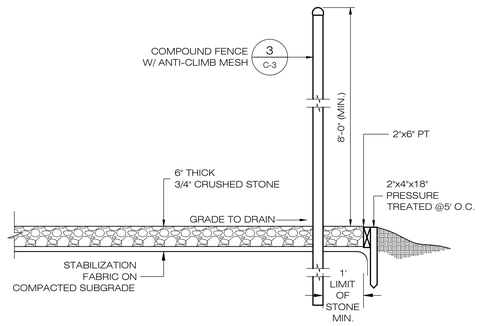
SHEET TITLE:

ANTENNA PLAN & DETAILS

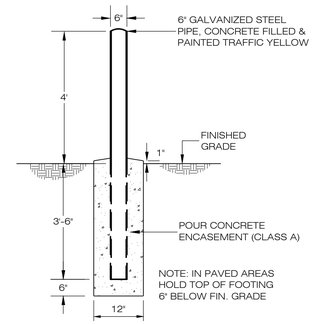
SHEET NUMBER:

C-2

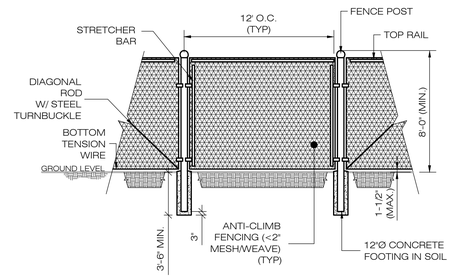




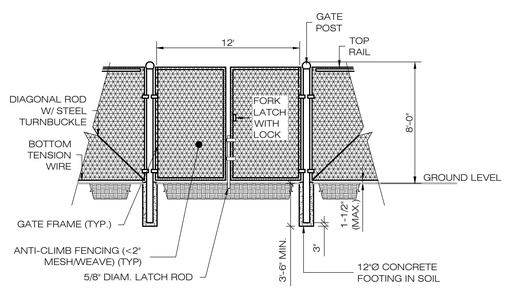
1 COMPOUND DETAIL
C-3 SCALE : N.T.S.



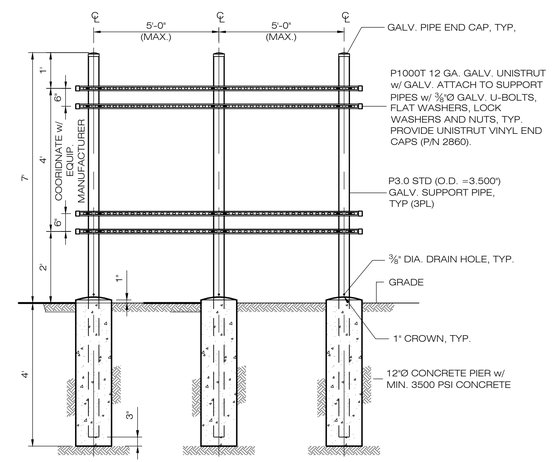
2 BOLLARD DETAIL
C-3 SCALE : N.T.S.



3 CHAIN-LINK FENCING DETAIL
C-3 SCALE : N.T.S.



4 FENCE & GATE DETAIL
C-3 SCALE : N.T.S.



5 UTILITY BACKBOARD FRAME DETAIL
C-3 SCALE : N.T.S.

verizon

4 CENTEROCK ROAD
WEST NYACK, NY 10994

APT ENGINEERING

567 VAUXHAUL STREET EXTENSION - SUITE 311
WATERFORD, CT 06385 PHONE: (860)-663-1697
WWW.ALLPOINTSTECH.COM FAX: (860)-663-0935

PERMITTING DOCUMENTS

NO	DATE	REVISION
0	04/15/19	FOR REVIEW: RCB
1	05/08/19	ATTORNEY REVISIONS: RCB
2	07/17/19	ATTORNEY REVISIONS: RCB
3	03/06/20	REVISED LAYOUT: RCB
4	03/12/20	ATTORNEY REVISIONS: RCB
5	03/19/20	ATTORNEY REVISIONS: RCB
6	03/30/20	ATTORNEY REVISIONS: RCB
7	06/19/20	TOWN COMMENTS: RCB
8	07/24/20	FOR REVIEW: RCB
9	07/29/20	FOR REVIEW: RCB
10	07/31/20	ATTORNEY REVISIONS: RCB

DESIGN PROFESSIONALS OF RECORD

PROF: SCOTT M. CHASSE P.E.
COMP: APT ENGINEERING
ADD: 567 VAUXHAUL STREET EXTENSION - SUITE311 WATERFORD, CT 06385

OWNER: TOWN OF EAST HAMPTON
ADDRESS: 159 PANTIGO ROAD EAST HAMPTON, NY 11937

NOTE:
IT IS A VIOLATION OF NEW YORK STATE EDUCATION LAW ARTICLE 145, SECTION 7209 (2) FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER OR LAND SURVEYOR, TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE SEAL OF AN ENGINEER OR LAND SURVEYOR IS ALTERED, THE ALTERING ENGINEER OR LAND SURVEYOR SHALL AFFIX TO THE ITEM HIS SEAL AND THE NOTATION "ALTERED BY" FOLLOWED BY THE SIGNATURE AND THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

VERIZON WIRELESS AT "WAINSCOTT 3"

SITE ADDRESS: 106 STEPHEN HANDS PATH WAINSCOTT, NY 11937

APT FILING NUMBER: NY141NB3300

PROJECT CODE: 20171584246

LOCATION CODE: 446966

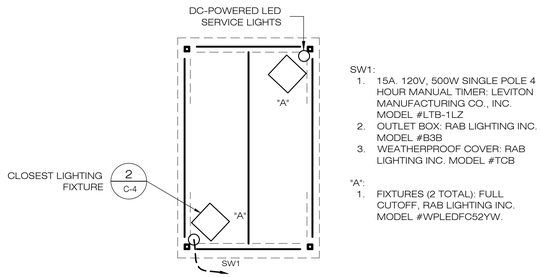
VZ CM: OZ	DRAWN BY: ELZ
DATE: 04/15/19	CHECKED BY: RCB

SHEET TITLE:

SITE DETAILS

SHEET NUMBER:

C-3

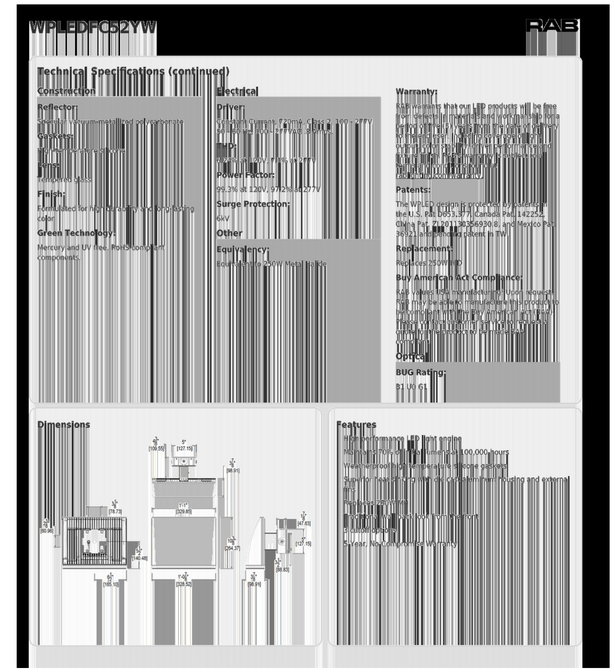


SW1:
1. 15A. 120V, 500W SINGLE POLE 4 HOUR MANUAL TIMER: LEVITON MANUFACTURING CO., INC. MODEL #LTB-1LZ
2. OUTLET BOX: RAB LIGHTING INC. MODEL #B3B
3. WEATHERPROOF COVER: RAB LIGHTING INC. MODEL #TCB

"A":
1. FIXTURES (2 TOTAL): FULL CUTOFF, RAB LIGHTING INC. MODEL #WPLEDFC52YW.

NOTE:
1. LIGHTING TO BE MOUNTED BELOW CANOPY. BOTTOM OF LIGHT FIXTURE AT APPROXIMATELY 9'± AGL.
2. SEE 6/S-1 FOR CANOPY STRUCTURE INFORMATION.

1 C-4 CANOPY LIGHTING
SCALE : N.T.S.



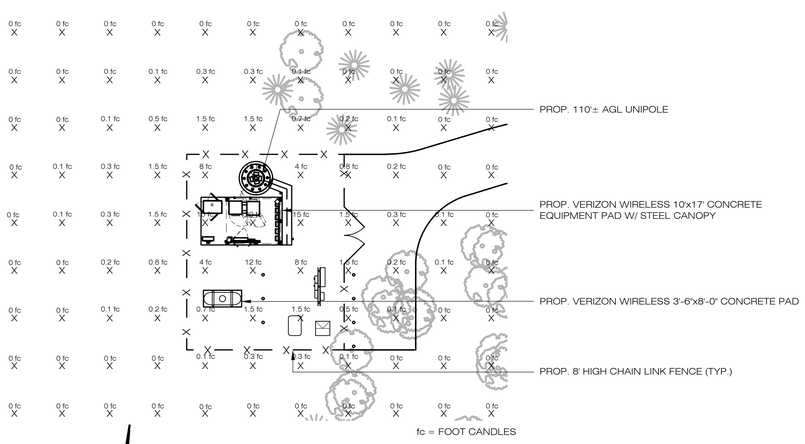
WPLEDFC52YW

RAB

Ordering Matrix

Family	Cutoff	Wattage	Color Temp	Finish	Driver Options	Options	Other Options
WPLED	FC	52	Y	W			
	Blank = Standard (15 degrees) **C** = Cutoff (7.5 degrees) **FC** = Full Cutoff (0 degrees)	**52** = 52W **80** = 80W	**Blank** = 5000K (Cool) **N** = 4000K (Neutral) **Y** = 3000K (Warm)	**Blank** = Bronze **W** = White	**Blank** = 120-277V **/480** = 480V **/BL** = Bi-Level **/D10** = 0-10V Dimming	**/LC** = Lightcloud® **Blank** = No Option **/PC5** = 120V Swivel Photocell **/PCS2** = 277V Swivel Photocell **/PCS4** = 480V Swivel Photocell	**USA** = BAA Compliant **Blank** = Standard

2 C-4 LIGHTING CUTSHEETS
SCALE : NONE



3 C-4 LIGHTING SPILL PLAN
SCALE : 1" = 15'

verizon
4 CENTEROCK ROAD
WEST NYACK, NY 10994

APT ENGINEERING
567 VAUXHAUL STREET EXTENSION - SUITE 311
WATERFORD, CT 06385 PHONE: (860)-663-1697
WWW.ALLPOINTSTECH.COM FAX: (860)-663-0935

PERMITTING DOCUMENTS

NO	DATE	REVISION
0	04/15/19	FOR REVIEW: RCB
1	05/08/19	ATTORNEY REVISIONS: RCB
2	07/17/19	ATTORNEY REVISIONS: RCB
3	03/06/20	REVISED LAYOUT: RCB
4	03/12/20	ATTORNEY REVISIONS: RCB
5	03/19/20	ATTORNEY REVISIONS: RCB
6	03/30/20	ATTORNEY REVISIONS: RCB
7	06/19/20	TOWN COMMENTS: RCB
8	07/24/20	FOR REVIEW: RCB
9	07/29/20	FOR REVIEW: RCB
10	07/31/20	ATTORNEY REVISIONS: RCB

DESIGN PROFESSIONALS OF RECORD

PROF: SCOTT M. CHASSE P.E.
COMP: APT ENGINEERING
ADD: 567 VAUXHAUL STREET EXTENSION - SUITE311 WATERFORD, CT 06385

OWNER: TOWN OF EAST HAMPTON
ADDRESS: 159 PANTIGO ROAD EAST HAMPTON, NY 11937

NOTE:
IT IS A VIOLATION OF NEW YORK STATE EDUCATION LAW ARTICLE 145, SECTION 7209 (2) FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER OR LAND SURVEYOR, TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE SEAL OF AN ENGINEER OR LAND SURVEYOR IS ALTERED, THE ALTERING ENGINEER OR LAND SURVEYOR SHALL AFFIX TO THE ITEM HIS SEAL AND THE NOTATION "ALTERED BY" FOLLOWED BY THE SIGNATURE AND THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

VERIZON WIRELESS AT "WAINSCOTT 3"

SITE ADDRESS: 106 STEPHEN HANDS PATH WAINSCOTT, NY 11937

APT FILING NUMBER: NY141NB3300

PROJECT CODE: 20171584246

LOCATION CODE: 446966

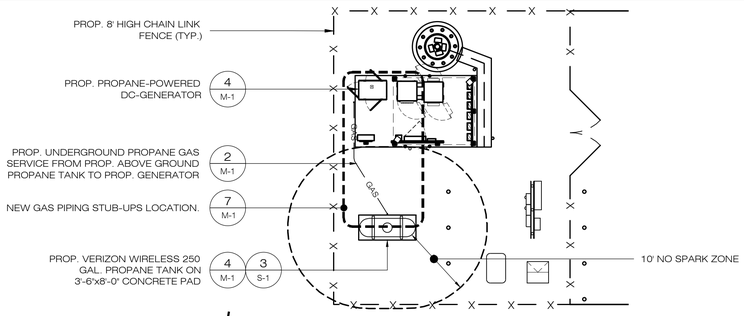
VZ CM: OZ	DRAWN BY: ELZ
DATE: 04/15/19	CHECKED BY: RCB

SHEET TITLE:

VERIZON EQUIPMENT LIGHTING DETAILS

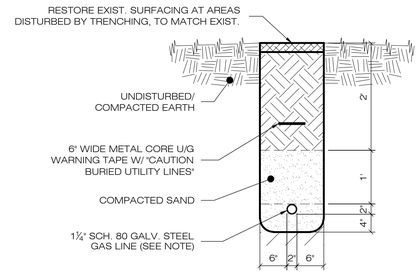
SHEET NUMBER:

C-4



1 M-1 EQUIPMENT COMPOUND

SCALE : 1" = 10'-0"



NOTE:
STEEL PIPE INSTALLED UNDERGROUND SHALL BE INSTALLED IN ACCORDANCE WITH NFPA54.
UNDERGROUND PIPING SHALL COMPLY WITH ONE OR MORE OF THE FOLLOWING:
1. THE PIPING SHALL BE MADE OF CORROSION RESISTANT MATERIAL THAT IS SUITABLE FOR BURIAL
2. PIPE SHALL HAVE A FACTORY APPLIED ELECTRICALLY INSULATING COATING. FITTINGS AND JOINTS BETWEEN SECTIONS OF COATED PIPE SHALL BE COATED IN ACCORDANCE WITH COATING MANUFACTURERS INSTRUCTIONS
3. THE PIPING SHALL HAVE A CATHODIC PROTECTION SYSTEM INSTALLED AND THE SYSTEM BE MAINTAINED.

2 M-1 PROPANE GAS TRENCH

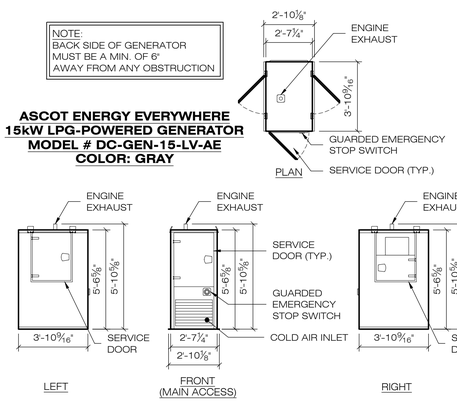
SCALE : N.T.S.

MECHANICAL NOTES & SPECIFICATIONS

1. THE MECHANICAL SUBCONTRACTOR SHALL COORDINATE ALL WORK TO BE PERFORMED WITH THE GENERAL AND ELECTRICAL CONTRACTORS. ANY WORK DONE BY THIS CONTRACTOR WHICH INTERFERES WITH WORK BY OTHERS AND WHICH WAS NOT FIRST COORDINATED SHALL BE REMOVED AND RELOCATED AT CONTRACTORS EXPENSE.
2. THIS CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFICATION OF ALL UTILITIES AND THE PLACEMENT OF ALL EQUIPMENT PRIOR TO THE START OF HIS WORK. NO EXTRAS WILL BE ALLOWED DUE TO EQUIPMENT LOCATION CHANGE FROM THAT ON THE DRAWING.
3. IT IS THE INTENT THAT THE WORK SHALL BE COMPLETE IN EVERY RESPECT AND THAT ANY MATERIAL OR WORK NOT SPECIFICALLY MENTIONED OR SHOWN ON THE DRAWINGS, BUT NECESSARY TO FULLY COMPLETE THE WORK, SHALL BE PROVIDED.
4. THE LOCATION OF SOME ITEMS SHOWN ON THE DRAWINGS MAY BE APPROXIMATE AND THE OWNER SHALL HAVE THE RIGHT TO MAKE MINOR REVISIONS BEFORE THE WORK IS INSTALLED WITHOUT ADDITIONAL COST.
5. THIS CONTRACTOR SHALL FURNISH AND INSTALL ALL NECESSARY VALVES, AND ALL CONTROL DEVICES REQUIRED FOR PROPER COMPLETION OF UTILITY PIPING.
6. ALL WORK SHALL BE IN ACCORDANCE WITH 2015 PLUMBING CODE, MECHANICAL CODE, AND FUEL GAS CODE OF NEW YORK.
7. GAS DEMAND IS 211,000 BTU/HR @ 35 PSI AT EQUIPMENT PRESSURE REGULATOR

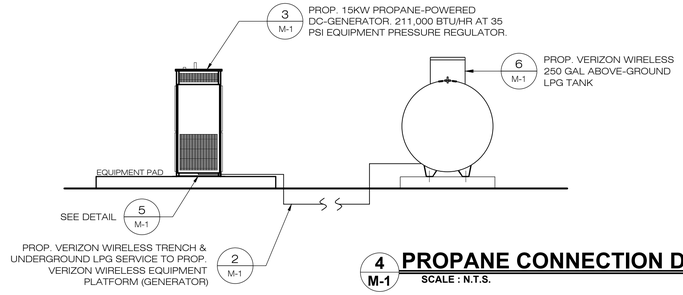
NOTE:
BACK SIDE OF GENERATOR MUST BE A MIN. OF 6" AWAY FROM ANY OBSTRUCTION

ASCOT ENERGY EVERYWHERE
15kW LPG-POWERED GENERATOR
MODEL # DC-GEN-15-LV-AE
COLOR: GRAY



3 M-1 PROPANE GENERATOR SCHEMATICS

SCALE : ¼" = 1'-0"



NOTE: ALL VALVES USED IN METALLIC PIPING SYSTEMS MUST HAVE PRESSURE CONTAINING PARTS OF STEEL, DUCTILE (NODULAR) IRON, MALLEABLE IRON OR BRASS. ALL MATERIALS USED, INCLUDING VALVE SEAT DISCS, PACKING, SEALS AND DIAPHRAGMS MUST BE RESISTANT TO THE ACTION OF LP GAS UNDER SERVICE CONDITIONS. MANY VALVES ARE LISTED BY INDEPENDENT TESTING LABORATORIES FOR USE IN LP GAS SERVICE. THESE CAN BE USED AS RECOMMENDED BY THE MANUFACTURER. OTHER VALVES CAN BE USED, BUT MUST COMPLY WITH THE REQUIREMENTS OF NFPA 58 AND SHOULD BE RECOMMENDED BY THE MANUFACTURER FOR LP GAS SERVICE TO BE SURE THAT ALL THE COMPONENT PARTS OF THE VALVE ARE APPROVED FOR LP GAS SERVICE.
VALVES USED WITH POLYETHYLENE PIPE AND TUBING MUST MEET THE REQUIREMENTS OF ASTM D2513 AND BE SO MARKED

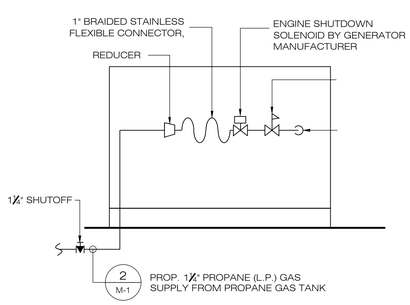
4 M-1 PROPANE CONNECTION DIAGRAM

SCALE : N.T.S.

NOTES:
1. PROPANE TANKS SHALL BE REFILLED FROM HOSE PULLED FROM A REFILLING VEHICLE PARKED AT THE NEW PARKING AREA.

2. PER NFPA 58 TABLE 5.9.4.1(B) FILLER VALVE REQUIRED ON ALL TANKS BUT MAY BE MANUAL OR BACKFLOW CHECK VALVE, NFPA 58 5.9.4.1(C)(7).

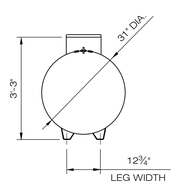
3. ALL ABOVE-GROUND GAS SERVICE LINES MUST MEET NYS CODE REGULATIONS.



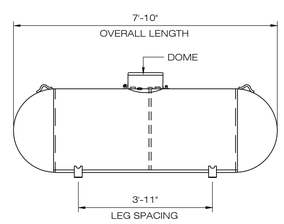
5 M-1 GENERATOR CONNECTION DETAIL

SCALE : N.T.S.

NOTE: INSTALL COMPONENTS IN ACCORDANCE W/ GENERATOR MANUFACTURERS INSTRUCTIONS.



FRONT VIEW



SIDE VIEW

1. 250 USWG AMSE VIII, DIV. 1 ABOVE GROUND LPG TANK AS MANUFACTURED BY TRINITY CONTAINERS, LLC:-

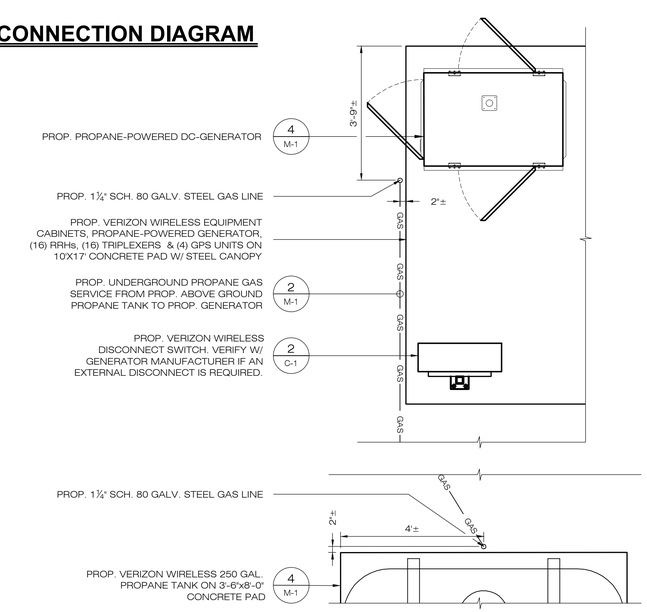
- WWW.TRINITYCONTAINERS.COM
- PH: 1-888-558-8265
- WEIGHT (EMPTY) = 1,729 lbs

2. LPG TANK TO BE BOLTED TO CONCRETE SLAB PER SUPPLIERS REQUIREMENTS.

NOTE:
PROVIDE TANK MANUFACTURER SHOP DRAWING FOR REVIEW BY ENGINEER OF RECORD PRIOR TO PURCHASE

6 M-1 ABOVE GROUND PROPANE TANK DETAIL

SCALE : N.T.S.



7 M-1 GAS PIPING STUB UP PLAN

SCALE : ½" = 1'-0"

2'-8" 0 1'-4" 2'-8" 5'-4"
⅜" SCALE: 1 INCH= 2'-8"

verizon
4 CENTEROCK ROAD
WEST NYACK, NY 10994

APT ENGINEERING
567 VAUXHAUL STREET EXTENSION - SUITE 311
WATERFORD, CT 06385 PHONE: (860)-663-1697
WWW.ALLPOINTSTECH.COM FAX: (860)-663-0935

PERMITTING DOCUMENTS

NO	DATE	REVISION
0	04/15/19	FOR REVIEW: RCB
1	05/08/19	ATTORNEY REVISIONS: RCB
2	07/17/19	ATTORNEY REVISIONS: RCB
3	03/06/20	REVISED LAYOUT: RCB
4	03/12/20	ATTORNEY REVISIONS: RCB
5	03/19/20	ATTORNEY REVISIONS: RCB
6	03/30/20	ATTORNEY REVISIONS: RCB
7	06/19/20	TOWN COMMENTS: RCB
8	07/24/20	FOR REVIEW: RCB
9	07/29/20	FOR REVIEW: RCB
10	07/31/20	ATTORNEY REVISIONS: RCB

DESIGN PROFESSIONALS OF RECORD

PROF: SCOTT M. CHASSE P.E.
COMP: APT ENGINEERING
ADD: 567 VAUXHAUL STREET EXTENSION - SUITE311 WATERFORD, CT 06385

OWNER: TOWN OF EAST HAMPTON
ADDRESS: 159 PANTIGO ROAD EAST HAMPTON, NY 11937

NOTE:
IT IS A VIOLATION OF NEW YORK STATE EDUCATION LAW ARTICLE 145, SECTION 7209 (2) FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER OR LAND SURVEYOR, TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE SEAL OF AN ENGINEER OR LAND SURVEYOR IS ALTERED, THE ALTERING ENGINEER OR LAND SURVEYOR SHALL AFFIX TO THE ITEM HIS SEAL AND THE NOTATION "ALTERED BY" FOLLOWED BY THE SIGNATURE AND THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

VERIZON WIRELESS AT "WAINSCOTT 3"

SITE ADDRESS: 106 STEPHEN HANDS PATH WAINSCOTT, NY 11937

APT FILING NUMBER: NY141NB3300

PROJECT CODE: 20171584246

LOCATION CODE: 446966

VZ CM: OZ | DRAWN BY: ELZ

DATE: 04/15/19 | CHECKED BY: RCB

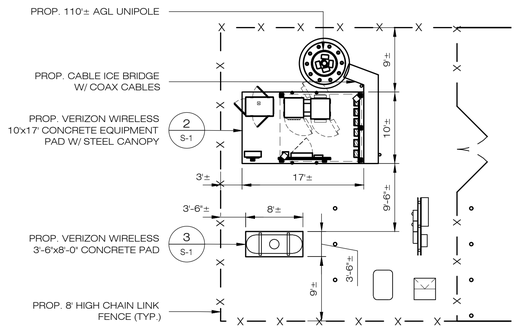
SHEET TITLE:

MECHANICAL PLAN & DETAILS

SHEET NUMBER:

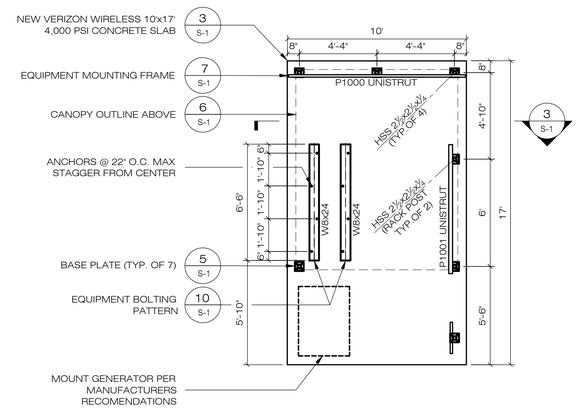
M-1

STATE OF NEW YORK · SCOTT M. CHASSE · 078833 · LICENSED PROFESSIONAL ENGINEER



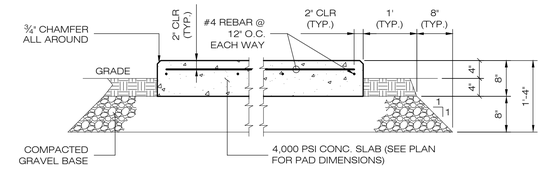
1 PARTIAL SITE PLAN
S-1 SCALE : 1" = 10'-0"

10 0 5 10 20
(IN FEET) 1 inch = 10 ft.



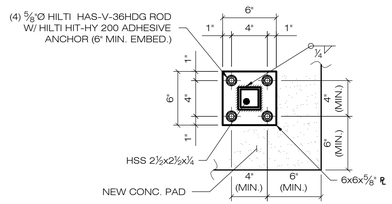
2 EQUIPMENT PAD
S-1 SCALE : ¼" = 1'-0"

¾" 0 ¾" ¾" ¾"
1/4" = 1'-0"

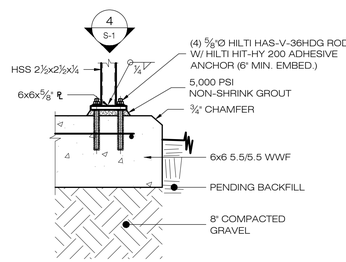


NOTES:
1. CONTRACTOR SHALL COORDINATE ALL SLAB DIMENSIONS & HOLD DOWN REQUIREMENTS W/ EQUIPMENT MANUFACTURER.
2. CONCRETE SLAB DESIGN IS BASED ON A MINIMUM ALLOWABLE SOIL BEARING PRESSURE (q_a) OF 3,000 PSF

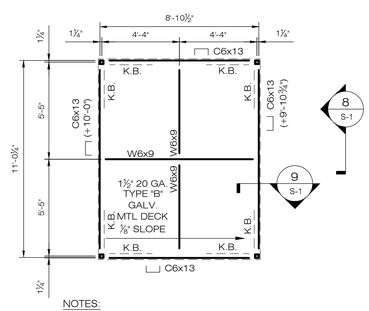
3 EQUIPMENT PAD
S-1 SCALE : ½" = 1'-0"



4 BASE PLATE
S-1 SCALE : 1½" = 1'-0"

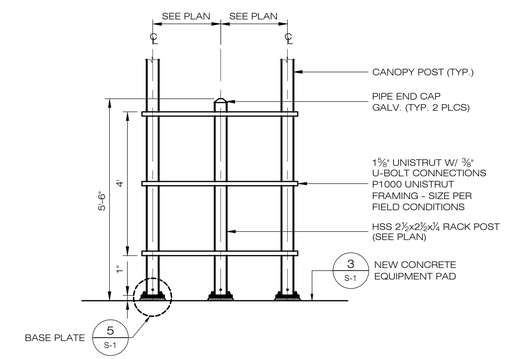


5 BASE PLATE
S-1 SCALE : 1" = 1'-0"

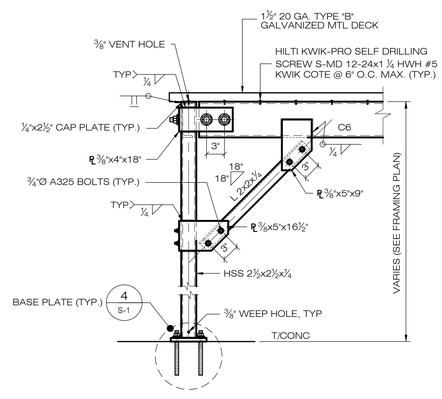


NOTES:
1. ELEVATIONS REFERENCE T/ CONCRETE
2. K.B. = KNEE BRACE (1) L2x2x ¼"

6 CANOPY FRAMING
S-1 SCALE : ¼" = 1'-0"

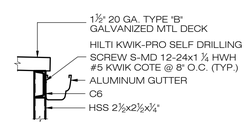


7 EQUIPMENT MOUNTING FRAME DETAIL
S-1 SCALE : N.T.S.

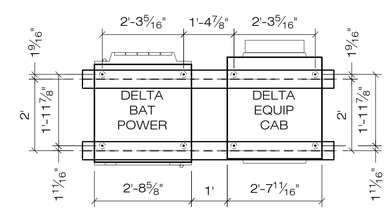


NOTE:
FOR CANOPY LIGHTING SEE 1/C-4.

8 CANOPY SUPPORT
S-1 SCALE : ¾" = 1'-0"



9 GUTTER SECTION
S-1 SCALE : ¾" = 1'-0"



FASTEN W8x24 BEAMS TO CONCRETE SLAB W/ ⅝" Ø HILTI HAS-V-36HDG ROD W/ HILTI HIT HY200 ADHESIVE ANCHOR (2½" MIN. EMBED.) PER PLAN

10 EQUIPMENT BOLTING PATTERN
S-1 SCALE : ½" = 1'-0"

verizon

4 CENTEROCK ROAD
WEST NYACK, NY 10994

APT ENGINEERING
567 VAUXHAUL STREET EXTENSION - SUITE 311
WATERFORD, CT 06385 PHONE: (860)-663-1697
WWW.ALLPOINTSTECH.COM FAX: (860)-663-0935

PERMITTING DOCUMENTS

NO	DATE	REVISION
0	04/15/19	FOR REVIEW: RCB
1	05/08/19	ATTORNEY REVISIONS: RCB
2	07/17/19	ATTORNEY REVISIONS: RCB
3	03/06/20	REVISED LAYOUT: RCB
4	03/12/20	ATTORNEY REVISIONS: RCB
5	03/19/20	ATTORNEY REVISIONS: RCB
6	03/30/20	ATTORNEY REVISIONS: RCB
7	06/19/20	TOWN COMMENTS: RCB
8	07/24/20	FOR REVIEW: RCB
9	07/29/20	FOR REVIEW: RCB
10	07/31/20	ATTORNEY REVISIONS: RCB

DESIGN PROFESSIONALS OF RECORD

PROF: SCOTT M. CHASSE P.E.
COMP: APT ENGINEERING
ADD: 567 VAUXHAUL STREET EXTENSION - SUITE311 WATERFORD, CT 06385

OWNER: TOWN OF EAST HAMPTON
ADDRESS: 159 PANTIGO ROAD EAST HAMPTON, NY 11937

NOTE:
IT IS A VIOLATION OF NEW YORK STATE EDUCATION LAW ARTICLE 145, SECTION 7209 (2) FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER OR LAND SURVEYOR, TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE SEAL OF AN ENGINEER OR LAND SURVEYOR IS ALTERED, THE ALTERING ENGINEER OR LAND SURVEYOR SHALL AFFIX TO THE ITEM HIS SEAL AND THE NOTATION "ALTERED BY" FOLLOWED BY THE SIGNATURE AND THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

VERIZON WIRELESS AT "WAINSCOTT 3"

SITE ADDRESS: 106 STEPHEN HANDS PATH WAINSCOTT, NY 11937

APT FILING NUMBER: NY141NB3300

PROJECT CODE: 20171584246

LOCATION CODE: 446966

VZ CM: OZ	DRAWN BY: ELZ
DATE: 04/15/19	CHECKED BY: RCB

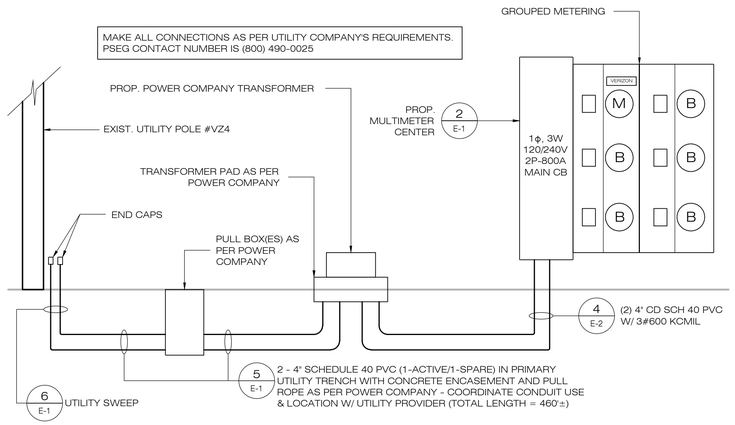
SHEET TITLE:

STRUCTURAL PLAN & DETAILS

SHEET NUMBER:

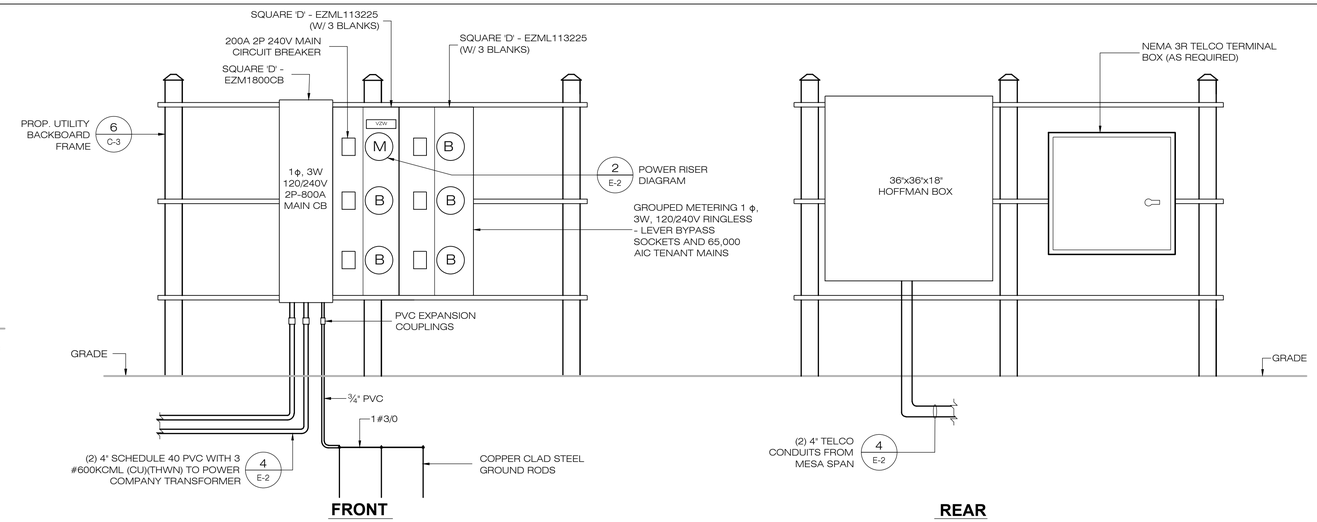
S-1

STATE OF NEW YORK · SCOTT M. CHASSE · 078603 · LICENSED PROFESSIONAL ENGINEER



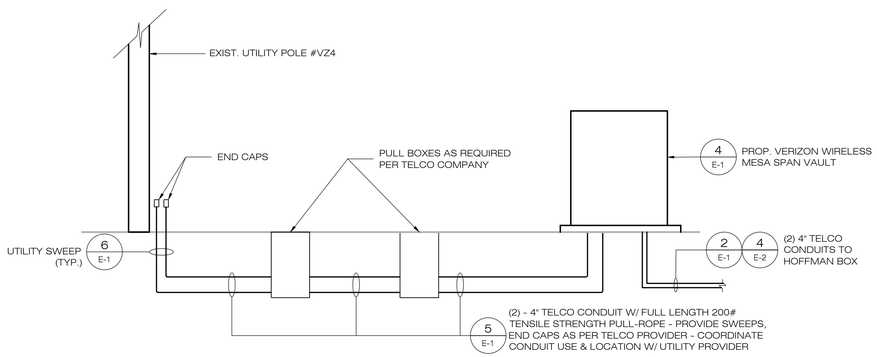
1 E-1 POWER RISER DIAGRAM

SCALE : N.T.S.



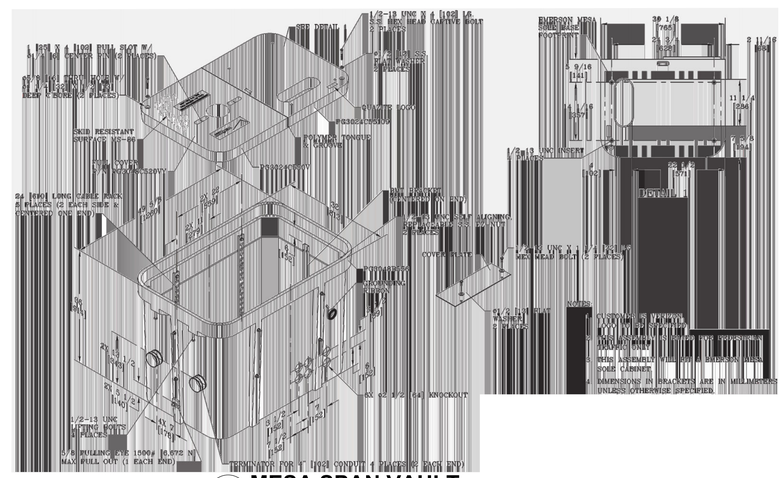
2 E-1 MULTIMETER CENTER DETAIL

SCALE : N.T.S.



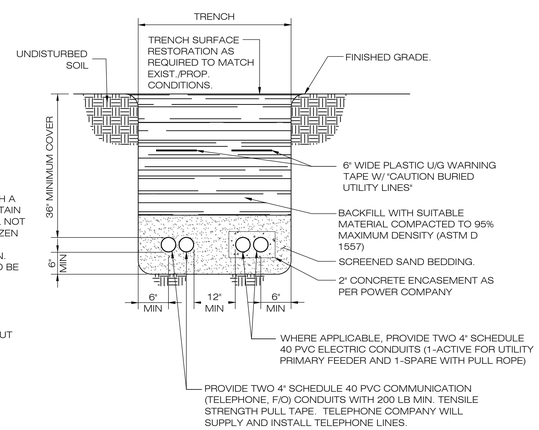
3 E-1 TELCO RISER DIAGRAM

SCALE : N.T.S.



4 E-1 MESA SPAN VAULT

SCALE : N.T.S.



NOTES:

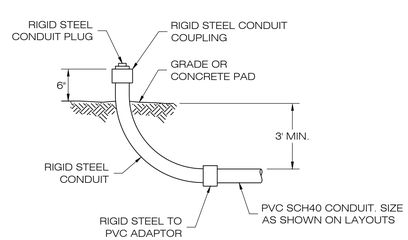
1. THE CLEAN FILL SHALL PASS THROUGH A 3/8" MESH SCREEN AND SHALL NOT CONTAIN SHARP STONES. OTHER BACKFILL SHALL NOT CONTAIN ASHES, CINDERS, SHELLS, FROZEN MATERIAL, LOOSE DEBRIES OR STONES LARGER THAN 2" IN MAXIMUM DIMENSION. WHERE EXISTING UTILITIES ARE LIKELY TO BE ENCOUNTERED.

2. CONTRACTOR SHALL HAND DIG AND PROTECT EXISTING UTILITIES.

3. EXISTING PAVEMENT SHALL BE SAW-CUT PRIOR TO TRENCH EXCAVATION

5 E-1 PRIMARY UTILITY TRENCH

SCALE : N.T.S.



6 E-1 UTILITY SWEEP

SCALE : N.T.S.

verizon
4 CENTEROCK ROAD
WEST NYACK, NY 10994

APT ENGINEERING
567 VAUXHAUL STREET EXTENSION - SUITE 311
WATERFORD, CT 06385 PHONE: (860)-663-1697
WWW.ALLPOINTSTECH.COM FAX: (860)-663-0935

PERMITTING DOCUMENTS

NO	DATE	REVISION
0	04/15/19	FOR REVIEW: RCB
1	05/08/19	ATTORNEY REVISIONS: RCB
2	07/17/19	ATTORNEY REVISIONS: RCB
3	03/06/20	REVISED LAYOUT: RCB
4	03/12/20	ATTORNEY REVISIONS: RCB
5	03/19/20	ATTORNEY REVISIONS: RCB
6	03/30/20	ATTORNEY REVISIONS: RCB
7	06/19/20	TOWN COMMENTS: RCB
8	07/24/20	FOR REVIEW: RCB
9	07/29/20	FOR REVIEW: RCB
10	07/31/20	ATTORNEY REVISIONS: RCB

DESIGN PROFESSIONALS OF RECORD

PROF: SCOTT M. CHASSE P.E.
COMP: APT ENGINEERING
ADD: 567 VAUXHAUL STREET EXTENSION - SUITE311 WATERFORD, CT 06385

OWNER: TOWN OF EAST HAMPTON
ADDRESS: 159 PANTIGO ROAD EAST HAMPTON, NY 11937

NOTE:
IT IS A VIOLATION OF NEW YORK STATE EDUCATION LAW ARTICLE 145, SECTION 7209 (2) FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER OR LAND SURVEYOR, TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE SEAL OF AN ENGINEER OR LAND SURVEYOR IS ALTERED, THE ALTERING ENGINEER OR LAND SURVEYOR SHALL AFFIX TO THE ITEM HIS SEAL AND THE NOTATION "ALTERED BY" FOLLOWED BY THE SIGNATURE AND THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

VERIZON WIRELESS AT "WAINSCOTT 3"

SITE ADDRESS: 106 STEPHEN HANDS PATH WAINSCOTT, NY 11937

APT FILING NUMBER: NY141NB3300

PROJECT CODE: 20171584246

LOCATION CODE: 446966

VZ CM: OZ	DRAWN BY: ELZ
DATE: 04/15/19	CHECKED BY: RCB

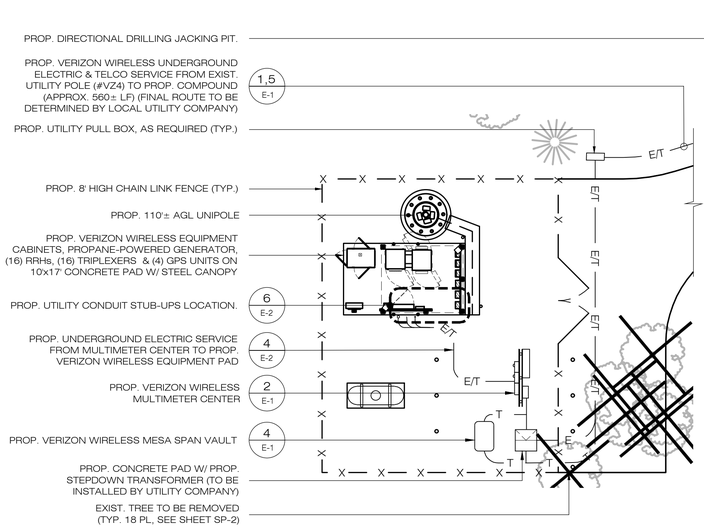
SHEET TITLE:

ELECTRICAL RISER & DETAILS

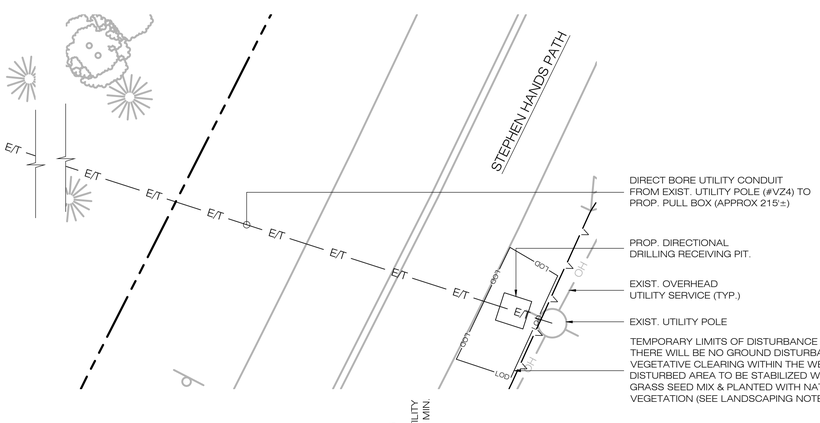
SHEET NUMBER:

E-1

STATE OF NEW YORK · SCOTT M. CHASSE · 078603 · LICENSED PROFESSIONAL ENGINEER



1 PARTIAL SITE PLAN
E-2 SCALE : 1" = 10'-0"



PANEL	PP1	MOUNTING	SURFACE	SQUARE 'D'
VOLTAGE	120/240, 1Ø	MAIN C/B	200A	QO13040L200GRB
RATING	200A	MLO		240/1Ø/3W

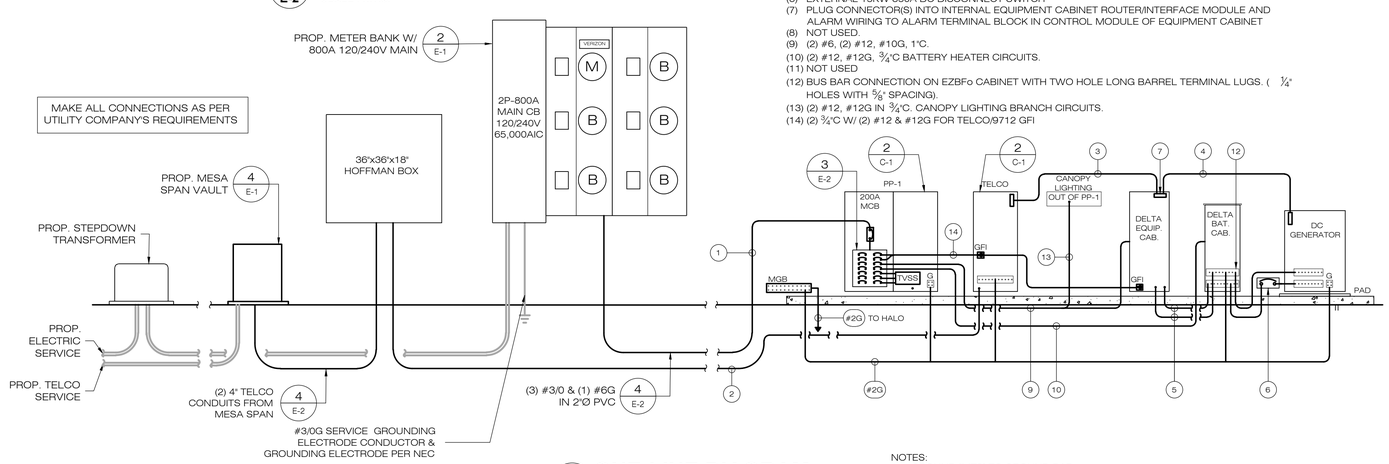
CIRCUIT SIZE	CKT NO	DESCRIPTION	AMPS BOLT	AMPS BOLT	DESCRIPTION	CKT NO	CIRCUIT SIZE
NOTE 3	1	RADIO CABINET	60A	15A	BATTERY CABINET HEATER	2	(2) #12, #12G, ¾"C
	3		|	|		4	
NOTE 3	5	RADIO CABINET RECEPT	20A	-	SPACE	6	
(2) #12, #12G, ¾"C	7	TELCO CABINET GFI	20A	-	SPACE	8	
(2) #12, #12G, ¾"C	9	CANOPY LIGHT	20A	-	SPACE	10	
(2) #10, (1)#10G, ¾"C	11	MESA SPAN CABINET	30A	-	SPACE	12	
	13	SPACE	-	-	SPACE	14	
	15	SPACE	-	-	SPACE	16	
	17	SPACE	-	-	SPACE	18	
INTERNAL	19	SPACE	-	-	SPACE	20	
	21	SPACE	-	-	SPACE	22	
	23	SPACE	-	-	SPACE	24	
	25	SPACE	-	-	SPACE	26	
	27	SPACE	-		TVSS	28	
	29	SPACE	-	*(2)		30	

NOTES:
1. ELECTRICAL CONTRACTOR SHALL VERIFY THE TYPE OF POWER CABINET BEING USED WITH CLIENT'S REPRESENTATIVE PRIOR TO BID.
2. TVSS CIRCUIT SIZE (CONDUCTORS AND BREAKER) AS PER MFR'S SPECIFICATIONS
3. COMBINE POWER AND GFI CIRCUIT IN (1) 1" C WITH (2)#6, (2)#12. (1)#10G.

3 PANEL SCHEDULE
E-2 SCALE : N.T.S.

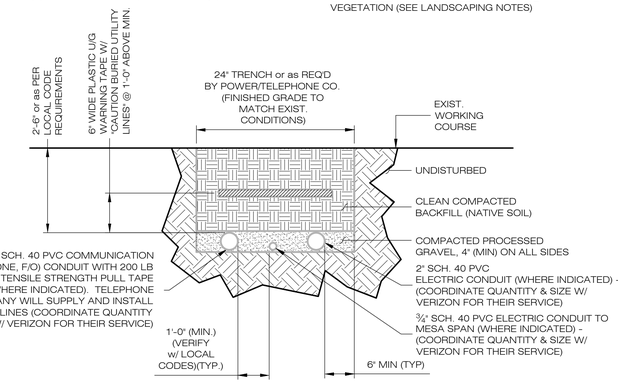
NOTES & SPECIFICATIONS:

(1) (3) #3/0 + (1) #6G IN 2"Ø PVC.
(2) 12 PR SINGLE MODE FIBER CABLES WITH LC-SC JUMPER (V.I.F.), 4"C.
(3) (2) SINGLE MODE FIBER CABLES WITH LC-SC JUMPER (V.I.F.), 2" LIQUIDTIGHT FLEXIBLE METAL (LFMC) CONDUIT WITH SPARE DRAG LINE.
(4) (8) PR 24GA ALARM WIRES, (2) PR 24 GA TWISTED SHIELDED, (1) CAT-6 LAN CABLE IN 1" LIQUIDTIGHT FLEXIBLE METAL (LFMC) CONDUIT. TERMINATE PER MANUFACTURER'S & OWNER'S SPECIFICATIONS
(5) 500 KCMIL DC FEEDER (1) #3 G (MINIMUM, INCREASE FOR VOLTAGE DROP IF APPLICABLE)
(6) EXTERNAL 15KW 350A DC DISCONNECT SWITCH
(7) PLUG CONNECTOR(S) INTO INTERNAL EQUIPMENT CABINET ROUTER/INTERFACE MODULE AND ALARM WIRING TO ALARM TERMINAL BLOCK IN CONTROL MODULE OF EQUIPMENT CABINET
(8) NOT USED.
(9) (2) #6, (2) #12, #10G, 1"C.
(10) (2) #12, #12G, ¾"C BATTERY HEATER CIRCUITS.
(11) NOT USED
(12) BUS BAR CONNECTION ON EZBFo CABINET WITH TWO HOLE LONG BARREL TERMINAL LUGS. (¼" HOLES WITH ⅝" SPACING).
(13) (2) #12, #12G IN ¾"C. CANOPY LIGHTING BRANCH CIRCUITS.
(14) (2) ¾"C W/ (2) #12 & #12G FOR TELCO/9712 GFI



2 ONE-LINE DIAGRAM
E-2 SCALE : N.T.S.

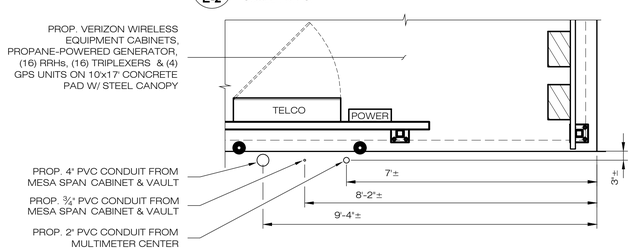
NOTES:
1. GROUND [MTS] TO GROUND BAR
2. GROUND GENERATOR TO GROUND RING WITH 2 #2 AWG GROUND WIRES (GENERATOR & ENCLOSURE).



4 SECONDARY TRENCH DETAIL
E-2 SCALE : N.T.S.

GENERATOR ALARM #	GENERATOR ALARM DESCR	VERIZON ALARM DESCR	VERIZON ALARM #
1	FAULT	GENERATOR FAILURE	USERALARM5
3	LOW FUEL	GENERATOR LOW FUEL	USERALARM6
4	GENERATOR RUNNING	GENERATOR RUNNING	USERALARM7
N/A	N/A	AC POWER FAILURE	USERALARM27

5 ALARM SCHEDULE
E-2 SCALE : N.T.S.



6 UTILITY STUB-UP PLAN
E-2 SCALE : ½" = 1'-0"

2'-8" 0 1'-4" 2'-8" 5'-4"
⅜" SCALE: 1 INCH= 2'-8"

verizon
4 CENTEROCK ROAD
WEST NYACK, NY 10994

APT ENGINEERING
567 VAUXHAUL STREET EXTENSION - SUITE 311
WATERFORD, CT 06385 PHONE: (860)-663-1697
WWW.ALLPOINTSTECH.COM FAX: (860)-663-0935

PERMITTING DOCUMENTS

NO	DATE	REVISION
0	04/15/19	FOR REVIEW: RCB
1	05/08/19	ATTORNEY REVISIONS: RCB
2	07/17/19	ATTORNEY REVISIONS: RCB
3	03/06/20	REVISED LAYOUT: RCB
4	03/12/20	ATTORNEY REVISIONS: RCB
5	03/19/20	ATTORNEY REVISIONS: RCB
6	03/30/20	ATTORNEY REVISIONS: RCB
7	06/19/20	TOWN COMMENTS: RCB
8	07/24/20	FOR REVIEW: RCB
9	07/29/20	FOR REVIEW: RCB
10	07/31/20	ATTORNEY REVISIONS: RCB

DESIGN PROFESSIONALS OF RECORD

PROF: SCOTT M. CHASSE P.E.
COMP: APT ENGINEERING
ADD: 567 VAUXHAUL STREET EXTENSION - SUITE311 WATERFORD, CT 06385

OWNER: TOWN OF EAST HAMPTON
ADDRESS: 159 PANTIGO ROAD EAST HAMPTON, NY 11937

NOTE:
IT IS A VIOLATION OF NEW YORK STATE EDUCATION LAW ARTICLE 145, SECTION 7209 (2) FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER OR LAND SURVEYOR, TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE SEAL OF AN ENGINEER OR LAND SURVEYOR IS ALTERED, THE ALTERING ENGINEER OR LAND SURVEYOR SHALL AFFIX TO THE ITEM HIS SEAL AND THE NOTATION "ALTERED BY" FOLLOWED BY THE SIGNATURE AND THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

VERIZON WIRELESS AT "WAINSCOTT 3"

SITE ADDRESS: 106 STEPHEN HANDS PATH WAINSCOTT, NY 11937

APT FILING NUMBER: NY141NB3300

PROJECT CODE: 20171584246

LOCATION CODE: 446966

VZ CM: OZ	DRAWN BY: ELZ
DATE: 04/15/19	CHECKED BY: RCB

SHEET TITLE:

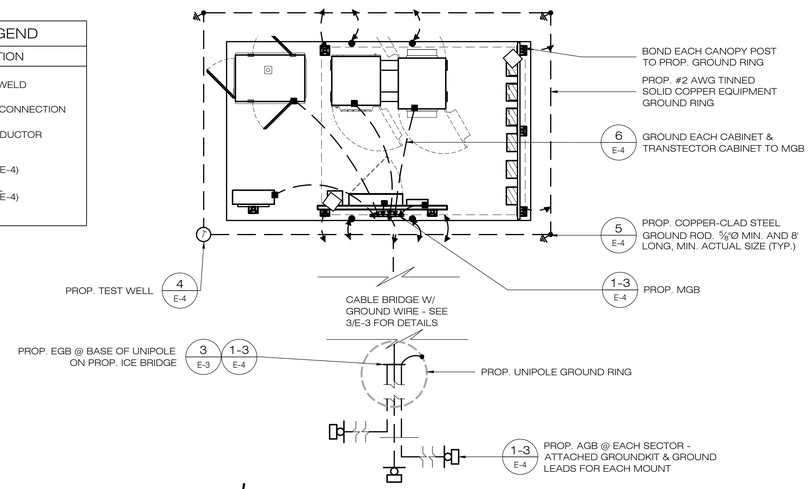
ELECTRICAL PLAN, ONE LINE DIAGRAM & DETAILS

SHEET NUMBER:

E-2

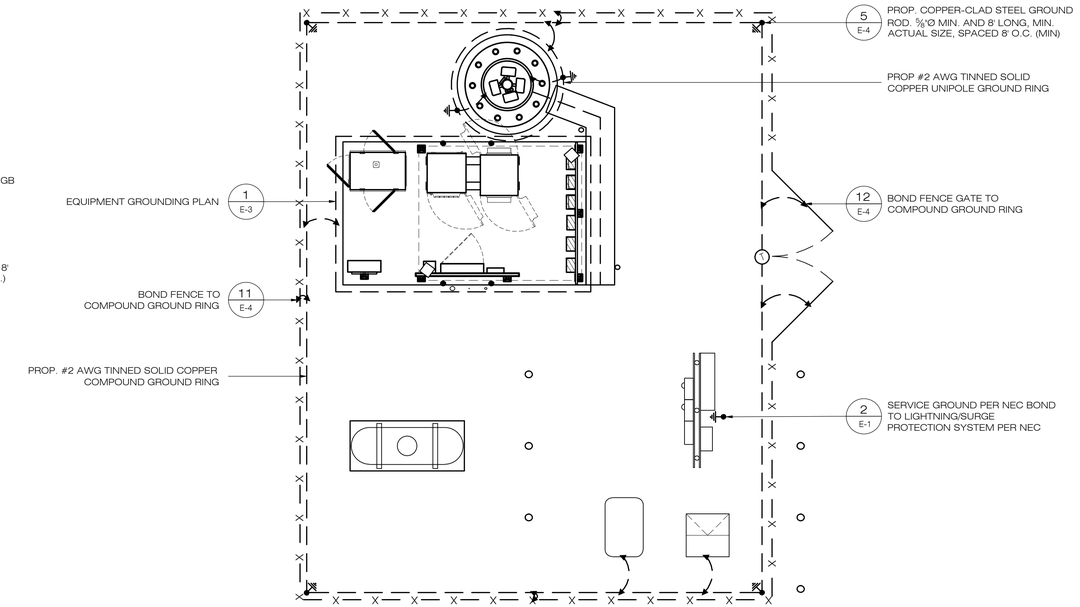
STATE OF NEW YORK · SCOTT M. CHASSE · 078633 · LICENSED PROFESSIONAL ENGINEER

GROUNDING LEGEND	
SYMBOL	DESCRIPTION
▶	EXOTHERMIC WELD
■	MECHANICAL CONNECTION
— — —	GROUND CONDUCTOR
— ⊕ —	GROUND ROD (SEE DETAIL 3/E-4)
— Ⓣ —	TESTING WELL (SEE DETAIL 6/E-4)



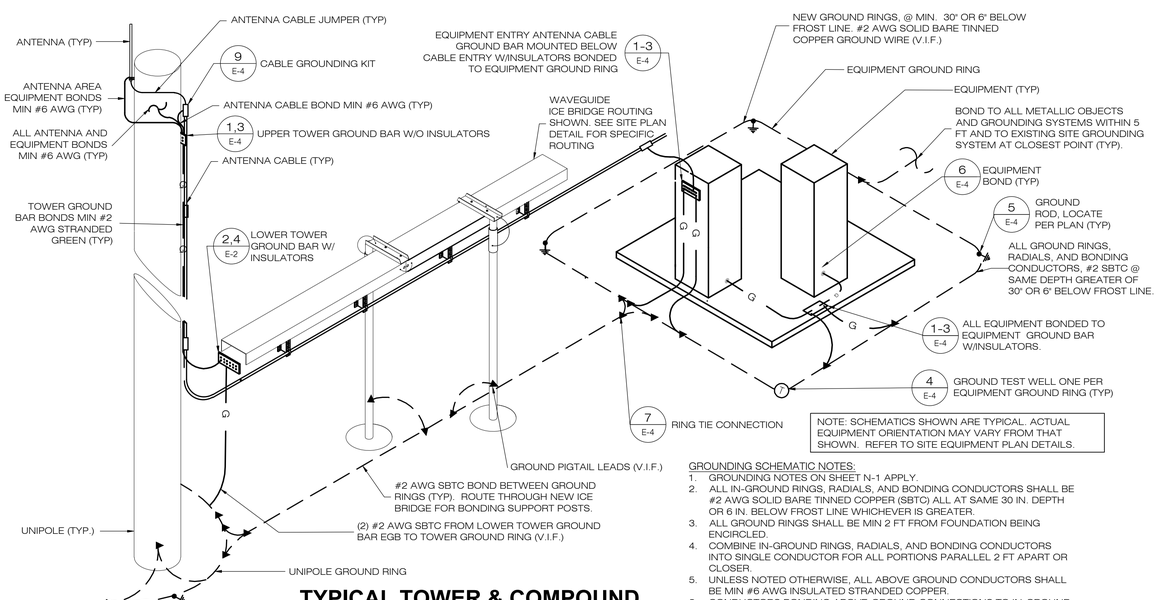
1 E-3 TYPICAL EQUIPMENT GROUNDING PLAN

SCALE : N.T.S.



2 E-3 TYPICAL COMPOUND GROUNDING PLAN

SCALE : 1" = 5'-0"



NOTE: SCHEMATICS SHOWN ARE TYPICAL. ACTUAL EQUIPMENT ORIENTATION MAY VARY FROM THAT SHOWN. REFER TO SITE EQUIPMENT PLAN DETAILS.

GROUNDING SCHEMATIC NOTES:

1. GROUNDING NOTES ON SHEET N-1 APPLY.
2. ALL IN-GROUND RINGS, RADIALS, AND BONDING CONDUCTORS SHALL BE #2 AWG SOLID BARE TINNED COPPER (SBTC) ALL AT SAME 30 IN. DEPTH OR 6 IN. BELOW FROST LINE WHICHEVER IS GREATER.
3. ALL GROUND RINGS SHALL BE MIN 2 FT FROM FOUNDATION BEING ENCIRCLED.
4. COMBINE IN-GROUND RINGS, RADIALS, AND BONDING CONDUCTORS INTO SINGLE CONDUCTOR FOR ALL PORTIONS PARALLEL 2 FT APART OR CLOSER.
5. UNLESS NOTED OTHERWISE, ALL ABOVE GROUND CONDUCTORS SHALL BE MIN #6 AWG INSULATED STRANDED COPPER.
6. CONDUCTORS BONDING ABOVE-GROUND CONNECTIONS TO IN-GROUND CONNECTIONS SHALL BE MIN #2 AWG SBTC UNLESS NOTED OTHERWISE AND SHALL BE PROTECTED BY LIQUIDTIGHT FLEXIBLE NONMETALLIC CONDUIT FOR ALL PORTIONS ABOVE GROUND.

3 E-3 TYPICAL TOWER & COMPOUND GROUNDING SCHEMATIC

SCALE : N.T.S.

verizon

4 CENTEROCK ROAD
WEST NYACK, NY 10994

APT ENGINEERING

567 VAUXHAUL STREET EXTENSION - SUITE 311
WATERFORD, CT 06385 PHONE: (860)-663-1697
WWW.ALLPOINTSTECH.COM FAX: (860)-663-0935

PERMITTING DOCUMENTS

NO	DATE	REVISION
0	04/15/19	FOR REVIEW: RCB
1	05/08/19	ATTORNEY REVISIONS: RCB
2	07/17/19	ATTORNEY REVISIONS: RCB
3	03/06/20	REVISED LAYOUT: RCB
4	03/12/20	ATTORNEY REVISIONS: RCB
5	03/19/20	ATTORNEY REVISIONS: RCB
6	03/30/20	ATTORNEY REVISIONS: RCB
7	06/19/20	TOWN COMMENTS: RCB
8	07/24/20	FOR REVIEW: RCB
9	07/29/20	FOR REVIEW: RCB
10	07/31/20	ATTORNEY REVISIONS: RCB

DESIGN PROFESSIONALS OF RECORD

PROF: SCOTT M. CHASSE P.E.
COMP: APT ENGINEERING
ADD: 567 VAUXHAUL STREET EXTENSION - SUITE311 WATERFORD, CT 06385

OWNER: TOWN OF EAST HAMPTON
ADDRESS: 159 PANTIGO ROAD EAST HAMPTON, NY 11937

NOTE:
IT IS A VIOLATION OF NEW YORK STATE EDUCATION LAW ARTICLE 145, SECTION 7209 (2) FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER OR LAND SURVEYOR, TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE SEAL OF AN ENGINEER OR LAND SURVEYOR IS ALTERED, THE ALTERING ENGINEER OR LAND SURVEYOR SHALL AFFIX TO THE ITEM HIS SEAL AND THE NOTATION "ALTERED BY" FOLLOWED BY THE SIGNATURE AND THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

VERIZON WIRELESS AT "WAINSCOTT 3"

SITE ADDRESS: 106 STEPHEN HANDS PATH WAINSCOTT, NY 11937

APT FILING NUMBER: NY141NB3300

PROJECT CODE: 20171584246

LOCATION CODE: 446966

VZ CM: OZ	DRAWN BY: ELZ
DATE: 04/15/19	CHECKED BY: RCB

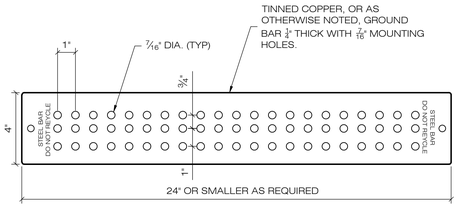
SHEET TITLE:

GROUNDING PLANS

SHEET NUMBER:

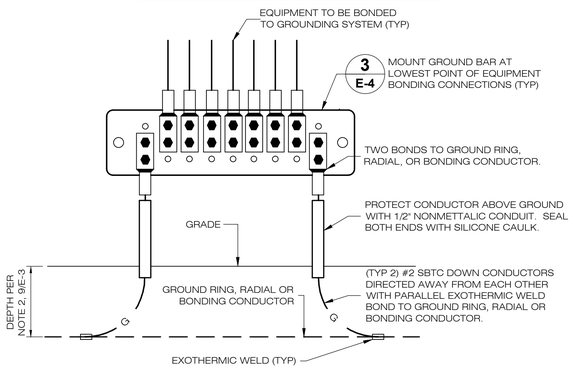
E-3

STATE OF NEW YORK · SCOTT M. CHASSE · 078603 · LICENSED PROFESSIONAL ENGINEER

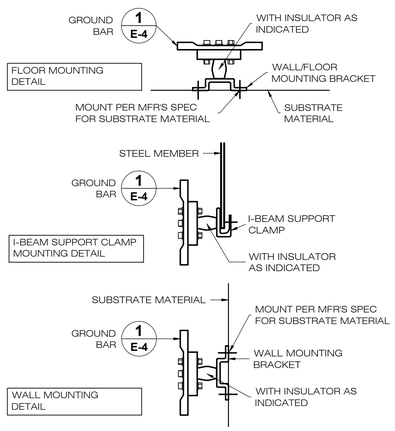


1 GROUND BARS
E-4 SCALE : N.T.S.

NOTES:
1. NO EXOTHERMIC WELDS TO GROUND BAR. ATTACH CONDUCTORS WITH (2) HOLE COPPER COMPRESSION TERMINATIONS AND ALL STAINLESS STEEL HARDWARE
2. DOUBLE UP CONNECTIONS ON BACKSIDE OF GROUND BAR ONLY AS NECESSARY.

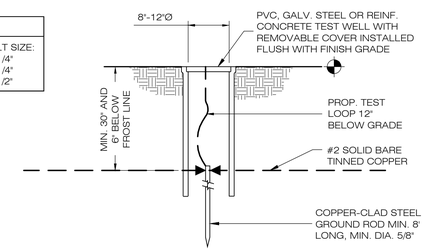


2 GROUND BAR CONNECTION DETAIL
E-4 SCALE : NTS

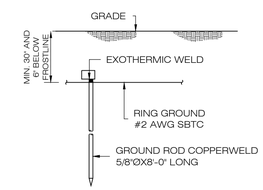


GROUND BAR MOUNTING DETAILS
3 E-4 SCALE : NTS

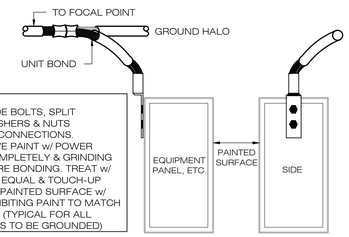
BASED ON THOMAS & BETTS			
CAT. #:	WIRE SIZE:	DIE #:	BOLT SIZE:
54205	#6 AWG	24	1/4"
54207	#2 AWG	33	1/4"
54260	#2/0 AWG	45	1/2"



4 GROUND SYSTEM TESTING WELL
E-4 SCALE : NTS

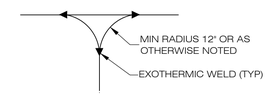


5 GROUND ROD DETAIL
E-4 SCALE : NTS

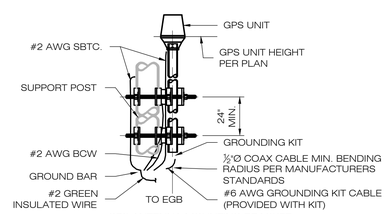


NOTES:
1) PROVIDE BOLTS, SPLIT LOCKWASHERS & NUTS FOR ALL CONNECTIONS.
2) REMOVE PAINT w/ POWER DRILL COMPLETELY & GRINDING BIT BEFORE BONDING. TREAT w/ NO-OX or EQUAL & TOUCH-UP AROUND PAINTED SURFACE w/ RUST INHIBITING PAINT TO MATCH EXISTING. (TYPICAL FOR ALL SURFACES TO BE GROUNDED)

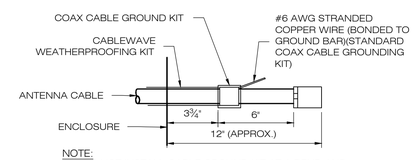
6 (2) HOLE LUG BONDS
E-4 SCALE : NTS



7 TIE CONNECTION DETAIL
E-4 SCALE : NTS

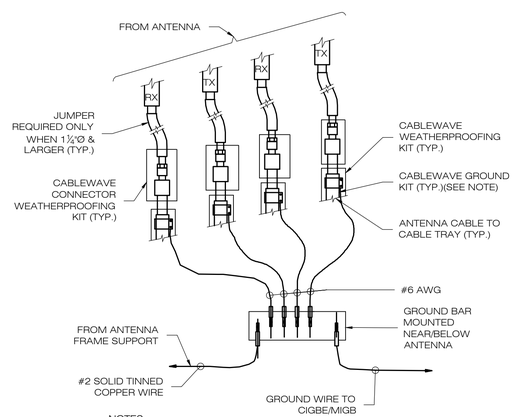


8 GPS AND MOUNTING BRACKET GROUNDING DETAIL
E-4 SCALE : N.T.S.



NOTE:
1. DO NOT INSTALL CABLE GROUND KIT AT A BEND AND ALWAYS DIRECT GROUND WIRE DOWN TO GROUND BAR.

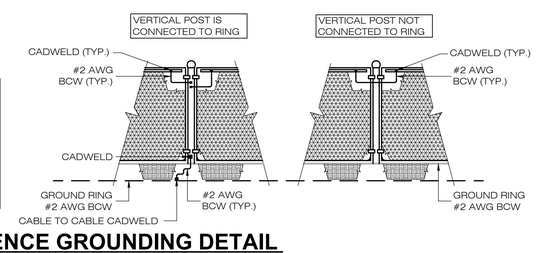
9 ANTENNA CABLE GROUNDING DETAIL
E-4 SCALE : N.T.S.



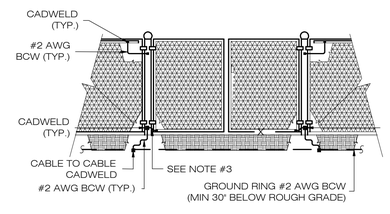
NOTES:
1. DO NOT INSTALL CABLE GROUND KIT AT A BEND AND ALWAYS DIRECT GROUND WIREDOWN TO GROUND BAR.

10 CONNECTION OF GROUND WIRES TO GROUND BAR
E-4 SCALE : N.T.S.

NOTES:
1. VERTICAL POST SHALL BE BONDED TO THE RING @ EACH CORNER & @ EACH GATE POST. AS A MINIMUM ONE VERTICAL POST SHALL BE BONDED TO THE GROUND RING IN EVERY 100'-0" STRAIGHT RUN OF FENCE.
2. HORIZONTAL POLES SHALL BE BONDED TO EACH OTHER.
3. BOND EACH HORIZONTAL POLE / BRACE TO EACH OTHER & TO EACH VERTICAL POST THAT IS BONDED TO THE EXTERIOR GROUND RING.



11 FENCE GROUNDING DETAIL
E-4 SCALE : N.T.S.



NOTES:
1. THE #2 AWG, BCW, FROM THE RING GROUND SHALL BE CAD WELDED TO THE POST ABOVE GRADE.
2. BOND EACH HORIZONTAL POLE / BRACE TO EACH OTHER & TO EACH VERTICAL POLE BONDED TO THE EXTERIOR GROUND RING.
3. GATE JUMPER SHALL BE #4/O AWG WELDING CABLE OR FLEXIBLE COPPER BRAID BURNDY TYPE "B" W/ SLEEVES ON EACH END DESIGNED FOR EXOTHERMIC WELDING.

12 12' GATE GROUNDING DETAIL
E-4 SCALE : N.T.S.

verizon
4 CENTEROCK ROAD
WEST NYACK, NY 10994

APT ENGINEERING
567 VAUXHAUL STREET EXTENSION - SUITE 311
WATERFORD, CT 06385 PHONE: (860)-663-1697
WWW.ALLPOINTSTECH.COM FAX: (860)-663-0935

PERMITTING DOCUMENTS

NO	DATE	REVISION
0	04/15/19	FOR REVIEW: RCB
1	05/08/19	ATTORNEY REVISIONS: RCB
2	07/17/19	ATTORNEY REVISIONS: RCB
3	03/06/20	REVISED LAYOUT: RCB
4	03/12/20	ATTORNEY REVISIONS: RCB
5	03/19/20	ATTORNEY REVISIONS: RCB
6	03/30/20	ATTORNEY REVISIONS: RCB
7	06/19/20	TOWN COMMENTS: RCB
8	07/24/20	FOR REVIEW: RCB
9	07/29/20	FOR REVIEW: RCB
10	07/31/20	ATTORNEY REVISIONS: RCB

DESIGN PROFESSIONALS OF RECORD

PROF: SCOTT M. CHASSE P.E.
COMP: APT ENGINEERING
ADD: 567 VAUXHAUL STREET EXTENSION - SUITE311 WATERFORD, CT 06385

OWNER: TOWN OF EAST HAMPTON
ADDRESS: 159 PANTIGO ROAD EAST HAMPTON, NY 11937

NOTE:
IT IS A VIOLATION OF NEW YORK STATE EDUCATION LAW ARTICLE 145, SECTION 7209 (2) FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER OR LAND SURVEYOR, TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE SEAL OF AN ENGINEER OR LAND SURVEYOR IS ALTERED, THE ALTERING ENGINEER OR LAND SURVEYOR SHALL AFFIX TO THE ITEM HIS SEAL AND THE NOTATION "ALTERED BY" FOLLOWED BY THE SIGNATURE AND THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

VERIZON WIRELESS AT "WAINSCOTT 3"

SITE ADDRESS: 106 STEPHEN HANDS PATH WAINSCOTT, NY 11937

APT FILING NUMBER: NY141NB3300

PROJECT CODE: 20171584246

LOCATION CODE: 446966

VZ CM: OZ	DRAWN BY: ELZ
DATE: 04/15/19	CHECKED BY: RCB

SHEET TITLE:

GROUNDING DETAILS

SHEET NUMBER:

E-4

STATE OF NEW YORK · SCOTT M. CHASSE · 087863 · LICENSED PROFESSIONAL ENGINEER

DESIGN BASIS:

GOVERNING CODES/DESIGN STANDARDS:

- 2020 NEW YORK STATE UNIFORM FIRE PREVENTION & BUILDING CODE
- NATIONAL ELECTRIC CODE
- TIA-222-H

DESIGN CRITERIA:

RISK CATEGORY/ : STRUCT. OCCUPANCY	IV	(2017 NYSBC TABLE 1604.5)

DEAD LOAD: (TOTAL = 6,662 LBS)

EQUIP. CABINET	1,100 LBS
BATTERY CABINET	3,805 LBS
GENERATOR	1,248 LBS (DRY WEIGHT)
DISCONNECT SWITCH	179 LBS
TELCO PANEL	180 LBS
POWER PANEL	150 LBS

LIVE LOAD:

MAINTENANCE:	40 PSF / 250 LBS (x2)

SNOW LOAD:

GROUND, P_g:	25 PSF	(2017 NYSBC FIG. 1608.2)
FLAT ROOF, P_f:		
EXPOSURE FACTOR, C_e:	1.0	(2017 NYSBC TABLE 1608.3.1
THERMAL FACTOR, C_t:	1.2	(2017 NYSBC TABLE 1608.3.2)
SNOW IMPORTANCE FACTOR, I_s:	1.0	(2017 NYSBC TABLE 1604.5.2)

WIND LOADS:

ULTIMATE BASIC WIND SPEED, V_{ULT}: (3-SECOND GUST)	149 MPH	(2017 NYSBC FIG. 1609.3(1-3))
NOMINAL BASIC WIND SPEED, V_{3S}: (3-SECOND GUST)	120 MPH	(TIA-222G, ANNEX B)
EXPOSURE CATEGORY	C	(2017 NYSBC SECT. 1609.4)
WIND IMPORTANCE FACTOR, I_w:	1.15	(TIA-222G, TABLE 2-3)

ICE LOADS:

ICE THICKNESS, t_i:	0.75 IN	(TIA-222G, ANNEX B)
ICE THICKNESS IMPORTANCE FACTOR, I_i:	1.25	(TIA-222G, TABLE 2-3)
NOMINAL BASIC WIND SPEED W/ ICE, Vi (3-SECOND GUST)	50 MPH	(TIA-222G, ANNEX B)

SEISMIC LOAD:

FLAT ROOFS CONSISTING OF 30 PSF OR LESS NEED NOT BE COMBINED WITH SEISMIC LOADS, OTHERWISE 20% SHALL BE COMBINED WITH SEISMIC LOADS. REFER TO EXCEPTION 2 OF SECTION 1605.3.1.

01 GENERAL:

ABBREVIATIONS USED IN THESE SPECIFICATIONS INCLUDE THE FOLLOWING:

ACI	AMERICAN CONCRETE INSTITUTE
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE
AWS	AMERICAN WELDING SOCIETY
AISC	AMERICAN INSTITUTE OF STEEL CONSTRUCTION
ASCE	AMERICAN SOCIETY OF CIVIL ENGINEERS
ASTM	AMERICAN STANDARDS AND TESTING METHODS
CRSI	CONCRETE REINFORCING STEEL INSTITUTE
ICC-ES	INTERNATIONAL CODE COUNCIL EVALUATION SERVICE
TIA	TELECOMMUNICATIONS INDUSTRY ASSOCIATION
UL	UNDERWIRTERS LABORATORIES
NEC	NATIONAL ELECTRICAL CODE
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
OSHA	OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION

EVERY INDIVIDUAL TRADE, DISCIPLINE, AND CONTRACTOR SHALL INCLUDE THESE GENERAL SPECIFICATIONS.

THE ENGINEER IS NOT RESPONSIBLE FOR NOR A GUARANTOR OF THE INSTALLING CONTRACTORS WORK, ADEQUACY OF ANY SITE COMPONENT, SUPERVISION OF ANY WORK, AND SAFETY IN, ON, OR ABOUT THE WORK SITE.

ANY REFERENCE HEREIN TO AN OR EQUAL ITEM, THAT EQUAL ITEM SHALL BE PRE-APPROVED BY THE CONSTRUCTION MANAGER BEFORE INSTALLATION

ALL TRADES SHALL COORDINATE THEIR WORK WITH ALL OTHER TRADES AND OTHER WORK AND CONDITIONS AS APPROPRIATE OR REQUIRED TO AVOID CONFLICTS. RESOLVE AND COORDINATE ALL CONFLICTS WITH ALL AFFECTED WORK AND SITE OPERATIONS. COORDINATION WITH THE SITE SHALL BE WITH THE OWNER, OR OWNER'S SPECIFIED REPRESENTATIVE, FOR EVERYTHING RELATED TO THE INSTALLATION OF THIS PROJECT.

ALL WORK SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE EDITIONS OF ALL APPLICABLE CODES AND SHALL BE ACCEPTABLE TO ALL AUTHORITIES HAVING JURISDICTION (AHJ). WHERE A CONFLICT EXISTS BETWEEN CODES, PLANS, SPECIFICATIONS, AND/OR AHJ, THE MORE STRINGENT AUTHORITY SHALL APPLY. WHERE CONFLICT EXISTS BETWEEN PLANS AND SPECIFICATIONS, PLAN SHALL APPLY. WHERE CONFLICT EXISTS BETWEEN PLAN SHEETS, CONSTRUCTION MANAGER SHALL BE CONSULTED PRIOR TO COMMENCING ANY WORK.

CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS, INSURANCE, EQUIPMENT, INSTALLATION, CONSTRUCTION TOOLS, TRANSPORTATION, ETC., FOR A COMPLETE AND PROPERLY OPERATIVE AND USABLE SYSTEM THROUGHOUT AND AS INDICATED ON THE DRAWINGS AND AS SPECIFIED HEREIN AND/OR OTHERWISE REQUIRED.

CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS, INSTALLATIONS, AND EQUIPMENT IN THE FIELD PRIOR TO BID, FABRICATION, AND INSTALLATION OF ANY WORK.

CONTRACTORS SHALL VERIFY ALL DIMENSIONS AND CONDITIONS IN THE FIELD PRIOR TO FABRICATION AND ERECTION OF ANY MATERIAL. THE ENGINEER SHALL BE NOTIFIED FOR INSPECTIONS PRIOR TO CLOSING PENETRATIONS AND OF ANY CONDITIONS WHICH PRECLUDE COMPLETION OF THE WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.

CONTRACTOR SHALL VISIT THE SITE TO MANAGE AND GAIN APPROVAL FOR ALL TENANT DISRUPTIONS, POWER OUTAGES, WORK SCHEDULES, DEFINITION OF WORK AREA AND WORK STORAGE, PROPER BUILDING/SITE ACCESS, NOISE AND CLEANLINESS REQUIREMENTS WITH THE BUILDING/SITE MANAGEMENT PRIOR TO ALL WORK. ANY DISRUPTIONS SHALL BE KEPT TO A MINIMUM AND SHALL BE IMPLEMENTED ONLY UPON WRITTEN APPROVAL OF THE OWNER.

THE CONTRACTOR SHALL SAFEGUARD AGAINST CREATING ANY HAZARD AFFECTING TENANT EGRESS OR COMPROMISING SITE SECURITY MEASURES.

PRIOR TO ALL BELOW-GRADE WORK AND ANY SURFACE WORK IN A NEW AREA FOR STRUCTURES OR VEHICLES, CONTRACTOR SHALL ENGAGE A MARKOUT SERVICE TO IDENTIFY ANY UNDERGROUND STRUCTURES, CONDUITS, AND PIPELINES IN THE AREA. ALL EXISTING SEWER, WATER, GAS, ELECTRIC, FIBER OPTIC, AND OTHER UNDERGROUND UTILITIES IDENTIFIED OR ENCOUNTERED, SHALL BE PROTECTED AT ALL TIMES. EXTREME CAUTION SHOULD BE USED BY THE CONTRACTOR WHEN DIGGING OR EXCAVATING IN ANY MANNER AROUND OR NEAR SUCH UTILITIES. CONTRACTOR IS RESPONSIBLE FOR REPAIRS, REPLACEMENT, AND ALL DAMAGES DUE TO DAMAGE OF UTILITIES BY HIS OPERATIONS.

ALL EXISTING AND NEW EQUIPMENT AND MATERIAL LOCATIONS, ROUTING, ORIENTATION, MOUNTING, SPECIFICATIONS AND GENERAL INSTALLED CHARACTERISTICS SHALL BE CONSIDERED DIAGRAMMATIC ON THE PLANS. EXACT CONDITIONS SHALL BE DETERMINED IN THE FIELD PRIOR TO ANY INSTALLATION. ANY DIFFERENCES THAT MAY CAUSE SCHEDULE, COST, OR QUALITY SHALL BE BROUGHT TO THE ATTENTION OF THE OWNER OR ENGINEER PRIOR TO ANY WORK.

ALL REFERENCES HEREIN TO VERIFICATION OF ANY CONDITION OF SITE, FIELD, PLANS, OR SPECIFICATIONS PRIOR TO ANY WORK SHALL BE THE FULL RESPONSIBILITY OF THE CONTRACTOR. ANY AND ALL ADDITIONS, MODIFICATIONS, CHANGES, REPAIR, OR DEMOLITION AS A RESULT OF FAILURE TO BRING ANY EXISTING CONDITION PROPERLY TO THE ATTENTION OF THE OWNER OR ENGINEER SHALL BE THE FULL RESPONSIBILITY OF THE CONTRACTOR WITHOUT DELAY, COST, OR CHANGES IN QUALITY.

ALL NOTES THIS SHEET SHALL APPLY UNLESS SPECIFICALLY NOTED OTHERWISE ON THE INCLUDED DRAWINGS OR IN SEPARATE PROJECT SPECIFICATIONS AS APPLICABLE. ALL SPECIFICATIONS SHALL BE CONSIDERED REQUIRED UNLESS APPROVED EQUAL BY THE OWNER, CONSTRUCTION MANAGER, OR ENGINEER AS APPLICABLE.

THE WORDS "PROVIDE" OR "INSTALL" SHALL MEAN FURNISH AND INSTALL.

CONTRACTOR SHALL PROVIDE ALL CUTTING AND PATCHING AS REQUIRED FOR THE INSTALLATION OF HIS WORK. ANY PATCHING SHALL MATCH EXISTING SURROUNDING AREAS IN ALL RESPECTS. ALL REMOVED MATERIAL SHALL BE REMOVED FROM THE PREMISES DAILY IN AN APPROVED SAFE MANNER.

ALL SURPLUS MATERIAL SHALL BE REMOVED FROM THE SITE PROMPTLY WHEN DEEMED TO BE SURPLUS.

EVERY CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF HIS WORK AND NEWLY INSTALLED OR EXISTING WORK, INCLUDING PROTECTION OF THE SITE, ALL STRUCTURES, AND ALL OCCUPANTS. FURNISH, INSTALL, MAINTAIN, AND REMOVE AS APPROPRIATE, ALL APPROPRIATE BARRIERS, SAFETY GUARDS, SIGNAGE, AND SECURITY AS REQUIRED.

EVERY CONTRACTOR SHALL BE RESPONSIBLE FOR THEIR RESPECTIVE FEES, PERMITS, INSPECTIONS, TESTING, CERTIFICATES, AND ALL MANAGEMENT OF SAME REQUIRED FOR COMPLETION OF AND LEGAL OCCUPANCY OF THE FINISHED PROJECT.

ALL CONTRACTORS SHALL PROVIDE ALL NECESSARY TOOLS, FIXTURES, SERVICES, MATERIALS, JOB AIDS, AND PERSONNEL REQUIRED FOR THE EXECUTION OF THEIR WORK.

EACH CONTRACTOR SHALL GUARANTEE ALL MATERIALS AND WORKMANSHIP BY THEM TO BE FREE OF DEFECTS AND MAINTAINED FOR A PERIOD OF ONE YEAR AFTER ACCEPTANCE OF THE INSTALLATION BY THE OWNER AND ENGINEER.

ALL WORK SHALL BE PERFORMED BY LICENSED CONTRACTORS IN THE TRADE HAVING JURISDICTION.

ANY DEVIATION, MODIFICATION, ADDITION, OR CHANGE IN DESIGN SHALL NOT BE MADE WITHOUT WRITTEN APPROVAL OF THE OWNER OR ENGINEER.

ALL CONTRACTORS SHALL SUBMIT SHOP DRAWINGS OF ALL EQUIPMENT AND MATERIALS TO THE ENGINEER FOR APPROVAL PRIOR TO FABRICATION AND INSTALLATION, AND SHALL NOT PROCEED UNTIL ENGINEER APPROVAL IN WRITING IS RETURNED. EACH CONTRACTOR SHALL MAINTAIN ON JOB SITE A COMPLETE SET OF SHOP DRAWINGS WITH ANY DEVIATIONS FROM THE ORIGINAL DESIGN SHALL BE NOTED.

ALL MATERIALS AND EQUIPMENT SHALL BE NEW, WITHOUT BLEMISH OR DEFECT, AND SUITABLE AND LISTED FOR THE INSTALLATION AND SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS OR SPECIFICATIONS. ALL ITEMS OF EQUIPMENT OR MATERIAL THAT ARE OF ONE GENERIC TYPE SHALL BE ONE MANUFACTURER THROUGHOUT.

ALL MATERIALS, EQUIPMENT, TOOLS, AND ITEMS UNDER THE CONTRACTOR'S RESPONSIBILITY ON THE JOBSITE SHALL BE ADEQUATELY SECURED, MAINTAINED, AND PROTECTED, SO AS NOT TO BECOME DAMAGED OR CREATE ANY HAZARD TO PERSONNEL OR PROPERTY.

THE CONTRACTORS HOURS OF WORK SHALL BE IN ACCORDANCE WITH LOCAL CODES AND ORDINANCES AND BE APPROVED BY THE OWNER.

CONTRACTOR SHALL PROVIDE SAFETY TRAINING FOR ALL OF HIS CREW AND INSURE THAT EVERY CREW MEMBER FOLLOWS SAVE WORK PRACTICES. SAFETY TRAINING SHALL INCLUDE, BUT NOT BE LIMITED TO, FALL PROTECTION, CONFINED SPACE ENTRY, ELECTRICAL SAFETY, AND TRENCHING/EXCAVATION SAFETY WHERE SUCH WORK IS EXECUTED OR ENCOUNTERED.

ALL TEMPORARY WORK REQUIRED OR SPECIFIED AS A PART OF THIS WORK, SHALL MEET ALL OF THE SAME REQUIREMENTS AS PERMANENT INSTALLATIONS, SHALL MEET ALL APPLICABLE CODE REQUIREMENTS, AND SHALL BE COMPLETELY REMOVED AFTER ITS PURPOSES HAVE BEEN SERVED.

ANY EXISTING UTILITY, SERVICE, STRUCTURE, EQUIPMENT, OR FIXTURE OBSTRUCTING THE WORK SHALL BE REMOVED AND/OR RELOCATED AS DIRECTED BY THE CONSTRUCTION MANAGER.

IF ASBESTOS IS ENCOUNTERED DURING WORK EXECUTION, CONTRACTOR SHALL IMMEDIATELY NOTIFY THE CONSTRUCTION MANAGER AND CEASE ALL ACTIVITIES IN AFFECTED AREAS UNTIL NOTIFIED BY THE CONSTRUCTION TO RESUME OPERATIONS.

EXIST. ELECTRICAL AND MECHANICAL FIXTURES, PIPING, WIRING AND EQUIPMENT OBSTRUCTING THE WORK SHALL BE REMOVED AND/OR RELOCATED AS DIRECTED BY THE CONSTRUCTION MANAGER. TEMPORARY SERVICE INTERRUPTIONS MUST BE COORDINATED WITH OWNER.

02 DEMOLITION:

THESE SPECIFICATIONS SHALL INCLUDE THE GENERAL SPECIFICATIONS HEREIN.

REMOVE AND LEGALLY DISPOSE OF ITEMS EXCEPT THOSE INDICATED TO BE REINSTALLED, SALVAGED, OR TO REMAIN THE OWNER'S PROPERTY.

PROTECT CONSTRUCTION INDICATED TO REMAIN AGAINST DAMAGE AND SOILING DURING DEMOLITION. WHEN PERMITTED, ITEMS MAY BE REMOVED TO A SUITABLE, PROTECTED STORAGE AREA DURING DEMOLITION AND THEN CLEANED AND REINSTALLED IN THEIR ORIGINAL LOCATIONS.

DEMOLISHED MATERIALS SHALL BECOME THE CONTRACTOR'S PROPERTY AND SHALL BE REMOVED FROM THE SITE WITH FURTHER DISPOSITION AT THE CONTRACTOR'S OPTION.

COMPLY WITH GOVERNING LOCAL, STATE AND FEDERAL NOTIFICATION REGULATIONS BEFORE STARTING DEMOLITION.

COMPLY WITH HAULING AND DISPOSAL REGULATIONS OF AUTHORITIES HAVING JURISDICTION

BUILDING COMPONENTS TO BE DEMOLISHED SHALL BE VACATED AND THEIR USE DISCONTINUED BEFORE START OF DEMOLITION.

STORAGE OR SALE OF REMOVED ITEMS OR MATERIALS ON-SITE WILL NOT BE PERMITTED.

ARRANGE DEMOLITION ACTIVITIES SO AS NOT TO INTERFERE WITH THE OWNER'S ON-SITE OPERATIONS.

VERIFY THAT ALL UTILITIES HAVE BEEN DISCONNECTED AND CAPPED.

PERFORM INSPECTIONS AS THE DEMOLITION PROGRESSES TO DETECT HAZARDS RESULTING FROM SAID ACTIVITIES.

MAINTAIN EXISTING UTILITIES INDICATED TO REMAIN IN SERVICE AND PROTECT THEM AGAINST DAMAGE DURING DEMOLITION OPERATIONS.

DO NOT INTERRUPT EXISTING UTILITIES SERVING OCCUPIED OR OPERATING FACILITIES EXCEPT WHEN AUTHORIZED IN WRITING BY THE OWNER. PROVIDE TEMPORARY SERVICES DURING INTERRUPTIONS TO EXISTING UTILITIES, AS ACCEPTABLE TO THE OWNER.

PROVIDE NOT LESS THAN 72 HOURS NOTICE TO OWNER IF SHUTDOWN OF SERVICE IS REQUIRED DURING CHANGEOVER.

LOCATE, IDENTIFY, DISCONNECT, AND SEAL OR CAP OFF INDICATED UTILITIES SERVICES SERVING STRUCTURES TO BE DEMOLISHED.

ARRANGE TO SHUT OFF INDICATED UTILITIES WITH THE OWNER AND UTILITY COMPANIES.

DO NOT START DEMOLITION WORK UNTIL UTILITY DISCONNECTING AND SEALING HAVE BEEN COMPLETED.

CONDUCT DEMOLITION OPERATIONS AND REMOVE DEBRIS TO ENSURE MINIMUM INTERFERENCE WITH ADJACENT AREAS, OTHER OCCUPIED AREAS, COMMON AREAS THROUGHOUT BUILDING, WALKWAYS, PARKING LOTS, AND ROADWAYS.

DO NOT CLOSE OR OBSTRUCT STREETS, WALKS, OR OTHER ADJACENT OCCUPIED OR USED AREAS WITHOUT PERMISSION FROM OWNER. IF REQUIRED, PROVIDE FOR ALTERNATE ROUTES AROUND CLOSED OR OBSTRUCTED TRAFFIC WAYS.

CONDUCT DEMOLITION OPERATIONS TO PREVENT INJURY TO PEOPLE AND DAMAGE TO ADJACENT AREAS, BUILDINGS, AND/OR FACILITIES TO REMAIN. ENSURE SAFE PASSAGE OF PEOPLE AROUND DEMOLITION AREAS.

PROVIDE AND MAINTAIN INTERIOR AND EXTERIOR SHORING, BRACING, OR STRUCTURAL SUPPORT TO PRESERVE STABILITY AND PREVENT MOVEMENT, SETTLEMENT, OR COLLAPSE OF PERIPHERAL STRUCTURES AND/OR AREAS.

USE WATER MIST, TEMPORARY ENCLOSURES, AND OTHER SUITABLE METHODS TO LIMIT THE SPREAD OF DUST AND DIRT. COMPLY WITH GOVERNING ENVIRONMENTAL PROTECTION REGULATIONS.

DO NOT CREATE HAZARDOUS OR OBJECTIONABLE CONDITIONS, SUCH AS ICE, FLOODING, AND POLLUTION, WHEN USING WATER.

REMOVE AND TRANSPORT DEBRIS IN A MANNER THAT WILL PREVENT SPILLAGE ON ADJACENT SURFACES AND AREAS.

CLEAN ADJACENT AREAS AND IMPROVEMENTS OF DUST, DIRT AND DEBRIS CAUSED BY DEMOLITION OPERATIONS. RETURN ADJACENT AREAS TO CONDITION EXISTING BEFORE START OF DEMOLITION.

USE METHODS REQUIRED TO COMPLETE DEMOLITION WITHIN LIMITATIONS OF GOVERNING REGULATIONS.

LOCATE DEMOLITION EQUIPMENT THROUGHOUT THE BUILDING AND REMOVE DEBRIS & MATERIALS SO AS NOT TO IMPOSE EXCESSIVE LOADS ON SUPPORTING WALLS, FLOORS, OR FRAMING.

DISPOSE OF DEMOLISHED ITEMS AND MATERIALS PROMPTLY. ON-SITE STORAGE OR SALE OF REMOVED ITEMS IS PROHIBITED.

DEMOLISH CONCRETE AND MASONRY IN SMALL SECTIONS.

REMOVE AIR-CONDITIONING EQUIPMENT WITHOUT RELEASING REFRIGERANTS.

BREAKUP AND REMOVE CONCRETE SLABS ON GRADE.

REMOVE BELOW-GRADE CONSTRUCTION, INCLUDING FOUNDATION WALLS, TO AT LEAST 24 INCHES BELOW GRADE.

BREAK UP BELOW-GRADE CONCRETE SLABS IN SECTIONS NO LARGER THAN 24 INCHES SQUARE.

PROMPTLY REPAIR DAMAGES TO ADJACENT FACILITIES CAUSED BY DEMOLITION.

PATCH TO PRODUCE SUITABLE SURFACES FOR NEW MATERIALS WHEN REPAIRING EXISTING SURFACES.

EXTEND RESTORED, EXPOSED FINISHES OF PATCH SURFACES INTO ADJOINING CONSTRUCTION IN A MANNER THAT ELIMINATES EVIDENCE OF PATCHING AND RESURFACING.

DO NOT BURN DEMOLISHED MATERIALS.

TRANSPORT DEMOLISHED MATERIALS OFF OWNER'S PROPERTY AND LEGALLY DISPOSE OF THEM.

PROMPTLY SUBMIT A WRITTEN REPORT TO THE ENGINEER SHOULD UNANTICIPATED STRUCTURAL, ELECTRICAL, OR MECHANICAL CONDITIONS ARE ENCOUNTERED. THE SUBMITTED REPORT SHALL INCLUDE SUFFICIENT DETAIL REGARDING THE EXTENT AND NATURE OF THE CONDITION.

DEMOLITION/CONSTRUCTION WORK SHALL BE LIMITED TO THE NORMAL HOURS OF 8AM TO 6PM.

MAINTAIN BUILDING SECURITY TO ADJACENT AND COMMON AREAS DURING DEMOLITION ACTIVITIES TO PREVENT UNAUTHORIZED PERSONS FROM ENTERING THE SITE.

DUE CARE SHALL BE TAKEN SO THAT THE EQUIPMENT AND ITS INSTALLATION ARE HANDLED IN A MANNER THAT WILL NOT AFFECT FIRE SAFETY OR CREATE A FIRE HAZARD.

04 CONCRETE:

THESE SPECIFICATIONS SHALL INCLUDE THE GENERAL SPECIFICATIONS HEREIN.

ALL CONCRETE CONSTRUCTION SHALL BE DONE IN ACCORDANCE WITH THE AMERICAN CONCRETE INSTITUTE (ACI) CODES 301 & 318, LATEST REVISION.

ALL CONCRETE USED SHALL BE 4000 PSI (28 DAY COMP STRENGTH). THE CONCRETE MIX SHALL BE BASED ON USING THE FOLLOWING MATERIALS AND PARAMETERS:

PORTLAND CEMENT:	ASTM C150, T1
AGGREGATE:	ASTM C33, 1 INCH MAX
WATER:	POTABLE
ADMIXTURE:	NON-CHLORIDE
AIR:	6%*
SLUMP:	4 INCH

*ALL CONCRETE EXPOSED TO FREEZING WEATHER SHALL CONTAIN ENTRAINED AIR PER ACI 211 TABLE 4.2.1 OF ACI 318-05.

ALL REINFORCING STEEL SHALL BE ASTM A615, GR 60 (DEFORMED). WELDED WIRE FABRIC SHALL CONFORM TO ASTM A185 WELDED STEEL WIRE FABRIC. SPLICES SHALL BE CLASS 'B' AND ALL HOOKS SHALL BE ACI STANDARD UNO. REINFORCING BARS SHALL BE COLD BENT WHERE REQUIRED AND TIED (NOT WELDED).

THE FOLLOWING MINIMUM CONCRETE COVER SHALL BE PROVIDED FOR REINFORCING STEEL:

- CONCRETE CAST AGAINST EARTH = 3 IN.
- CONCRETE EXPOSED TO EARTH OR WEATHER:
  - #6 AND LARGER = 2 IN.
  - #5 AND SMALLER = 1 1/2 IN.
- CONCRETE NOT EXPOSED TO EARTH OR WEATHER OR NOT CAST AGAINST THE GROUND:
  - SLAB AND WALL = 3/4 IN.
  - BEAMS AND COLUMNS = 1 1/2 IN.

A 3/4 IN. CHAMFER SHALL BE PROVIDED AT ALL EXPOSED EDGES OF CONCRETE, IN ACCORDANCE WITH ACI 301 SECTION 4.2.4.

CONCRETE SHALL BE PLACED IN A UNIFORM MANNER AND CONSOLIDATED IN PLACE.

CONCRETE FOOTINGS SHALL BE CAST AGAINST LEVEL, COMPACTED, NON-FROZEN BASE SOIL FREE OF STANDING WATER.

04 MASONRY:

THESE SPECIFICATIONS SHALL INCLUDE THE GENERAL SPECIFICATIONS HEREIN.

EXISTING MASONRY TO BE USED TO SUPPORT NEW WORK SHALL BE INSPECTED FOR SIGNS OF DETERIORATION, INCLUDING EXCESSIVE WEATHERING, CRACKING, SPALLING, SPLITTING, LATERAL MOVEMENT AND/OR MORTAR CRACKING AND DETERIORATION BEFORE ATTACHING NEW WORK. IF SUCH DEFICIENCIES ARE FOUND, REPORT FINDINGS TO THE CONSTRUCTION MANAGER.

WHERE BEAM POCKETS IN EXISTING BUILDING PARAPETS ARE SPECIFIED, EXISTING MASONRY UNITS SHALL BE CAREFULLY REMOVED TO CREATE THE BEAM POCKET AND REPLACED BY KEYING THE UNITS BACK IN PLACE. WHERE VOIDS ARE ENCOUNTERED WITHIN SUCH PARAPETS, THE PARAPET SHALL BE REBUILT SOLID DOWN TO SOLID BEARING OF 8 INCHES (MIN). ALL LIGHTWEIGHT MASONRY SHALL BE REMOVED.

HIGH STRENGTH GROUT SHALL BE NON-SHRINK, NON-METALLIC GROUT WITH 28 DAY COMPRESSION STRENGTH OF 5000 PSI.

ALL CONCRETE MASONRY WORK SHALL CONFORM TO THE REQUIREMENTS OF "BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES (ACI 530-05/ ASCE 5-05/ TMS 402-05)" AND "SPECIFICATIONS FOR MASONRY STRUCTURES (ACI 530.1-05/ ASCE 6-05/ TMS 602-05)".

THE COMPRESSIVE MASONRY STRENGTH, fm, SHALL BE 1,500 PSI MINIMUM. SYSTEM COMPONENTS HAVE BEEN SELECTED BASED ON THE UNIT STRENGTH METHOD.

CONCRETE BLOCK SHALL BE LIGHTWEIGHT HOLLOW LOAD BEARING MASONRY UNITS CONFORMING TO ASTM C 90, TYPE N-1, WITH A MINIMUM ULTIMATE COMPRESSIVE STRENGTH OF 1,900 PSI ON THE NET AREA OF THE UNITS. UNITS SHALL BE PROTECTED FROM MOISTURE ABSORPTION.

PORTLAND CEMENT USED IN THE MORTAR AND GROUT SHALL CONFORM TO ASTM C 150. MASONRY CEMENT SHALL NOT BE USED.

MORTAR SHALL BE TYPE S CONFORMING TO THE VOLUMETRIC PROPORTIONS SET FORTH IN ASTM C-270. USE 1 PART PORTLAND CEMENT; 0.25 TO 0.5 PARTS HYDRATED LIME OR LIME PUTTY; AND AGGREGATE PROPORTIONED TO 2.25 TO 3 TIMES THE SUM OF THE SEPARATE VOLUMES OF CEMENTITIOUS MATERIALS (I.E. PORTLAND CEMENT PLUS LIME). PROVIDE AGGREGATE IN LOOSE, DAMP CONDITION. ADD WATER TO PRODUCE A WORKABLE MIX.

COARSE GROUT USED IN PILASTERS AND WALLS SHALL CONFORM TO THE VOLUMETRIC PROPORTIONS SET FORTH IN ASTM C 476. USE ONE PART PORTLAND CEMENT, 2.25 TO 3 PARTS DAMP, LOOSE SAND, 1 TO 2 PARTS 3/8" PEA GRAVEL. ADD WATER TO PRODUCE A FLOWABLE MIX WITH AN 8 TO 11 INCH SLUMP. ALTERNATIVELY, FINE GROUT MAY BE USED THAT CONFORMS TO THE VOLUMETRIC PROPORTIONS SET FORTH IN ASTM C 476 USING ONE PART PORTLAND CEMENT, 2.25 TO 3 PARTS DAMP LOOSE SAND AND ADDING WATER TO PRODUCE A FLOWABLE MIX WITH AN 8 TO 11 INCH SLUMP.

STEEL REINFORCING BARS SHALL CONFORM TO ASTM A 615, GRADE 60. REINFORCING BARS TO BE LAPPED 48 BAR DIAMETERS AT SPLICES. REINFORCEMENT TO BE SECURED AGAINST DISPLACEMENT AT SPACING NOT EXCEEDING 200 BAR DIAMETERS.

JOINT (HORIZONTAL) REINFORCEMENT SHALL BE HOT-DIPPED GALVANIZED W1.7 (9 GAGE) STEEL WIRE, ASTM A 82 WITH ASTM A 153 CLASS B-2 COATING, LADUR-TYPE, DUR-O-WALL OR EQUAL. PLACE JOINT REINFORCING IN EVERY SECOND COURSE (16" O.C.) JOINT REINFORCEMENT SHALL BE LAPPED 6 INCHES AT SPLICES.

PLACE UNITS WHILE MORTAR IS SOFT AND PLASTIC. REMOVE AND RELAY IN FRESH MORTAR ANY UNIT DISTURBED TO THE EXTENT THAT INITIAL BOND IS BROKEN AFTER INITIAL POSITIONING.

ALL CELLS WITH REINFORCING BARS OR BOLTS SHALL BE GROUTED SOLID.

VERTICAL CELLS TO BE GROUTED SOLID SHALL HAVE A MINIMUM CLEAR OPENING OF 3" x 2-1/2". THE ENTIRE PERIMETER OF THE CELL SHALL BE FULLY BEDDED WITH MORTAR.

CONSOLIDATE GROUT POURS EXCEEDING 12 INCHES IN HEIGHT BY MECHANICAL VIBRATION AND RECONSOLIDATE BY MECHANICAL VIBRATION AFTER INITIAL WATER ABSORPTION AND SETTLEMENT HAS OCCURRED. GROUT POURS EXCEEDING 5 FEET ARE HIGH LIFT POURS REQUIRING CLEANOUTS AND SHALL BE INSTALLED IN LIFTS NOT EXCEEDING 5 FEET. HIGH LIFT GROUTING SHALL NOT BE USED UNLESS HIGH LIFT GROUT PROCEDURES ARE SUBMITTED TO THE ENGINEER FOR REVIEW AND APPROVED BY THE ENGINEER.

COVER THE TOPS OF ALL MASONRY CONSTRUCTION TO PROTECT AGAINST PRECIPITATION.

MASONRY SHALL NOT BE CONSTRUCTED IN TEMPERATURES BELOW 40° F. PROVIDE A HEAT SOURCE AND PROTECTION AS REQUIRED TO MAINTAIN TEMPERATURE ABOVE 40° F IN ACCORDANCE WITH ACI 530.1, SECTION 1.8.C.

HOT WEATHER CONSTRUCTION TECHNIQUES, ACI 530.1, SECTION 1.8.D, SHALL BE IMPLEMENTED WHEN THE AMBIENT AIR TEMPERATURE EXCEEDS 100° F, OR 90° F IF THE WIND SPEED EXCEEDS 8 MPH.

PROVIDE VERTICAL CONTROL JOINTS THROUGH CONCRETE MASONRY UNIT WALLS FOR FULL WALL HEIGHT AS FOLLOWS:

- DISTANCE BETWEEN JOINTS SHOULD NOT EXCEED THE LESSER OF LENGTH TO HEIGHT RATIO OF 1.5, OR 25 FEET.
- AT CHANGES IN WALL HEIGHT.
- AT CHANGES IN WALL THICKNESS - INCLUDING PIPE AND DUCT CHASES AND PILASTERS.
- AT AND BELOW EXPANSION JOINTS IN ROOFS AND FLOORS THAT BEAR ON THE WALL.
- FOR OPENINGS, DO NOT LOCATE CONTROL JOINTS WITHIN 32 INCHES OF OPENING.
- ADJACENT TO CORNER OF WALLS OR AT WALL INTERSECTIONS WITHIN A DISTANCE EQUAL TO HALF THE CONTROL JOINT SPACING.

SUBMITTALS TO THE ENGINEER ARE REQUIRED FOR CERTIFICATES OF COMPLIANCE FOR BLOCK GRADE AND STRENGTH, GROUT, MORTAR, AND REINFORCING BARS PRIOR TO DELIVERY TO THE SITE.

SEAL ALL PENETRATIONS AND SEAMS BETWEEN MASONRY AND STEEL WITH DOW CORNING 790 SILICONE BUILDING SEALANT OR APPROVED EQUAL.

SEAL ALL PENETRATIONS & SEAMS BETWEEN MASONRY & STEEL WITH DOW CORNINGS 790 SILICONE BUILDING SEALANT (OR EQUAL).

05 POST INSTALLED ANCHORS:

THESE SPECIFICATIONS SHALL INCLUDE THE GENERAL SPECIFICATIONS HEREIN.

ANCHOR CAPACITY USED IN DESIGN SHALL BE BASED ON THE TECHNICAL DATA PUBLISHED BY THE ANCHOR MANUFACTURERS' SPECIFICATIONS OR SUCH OTHER METHOD AS APPROVED BY THE STRUCTURAL ENGINEER OF RECORD. SUBSTITUTION REQUESTS FOR ALTERNATE PRODUCTS MUST BE APPROVED IN WRITING BY THE STRUCTURAL ENGINEER OF RECORD PRIOR TO USE. CONTRACTOR SHALL PROVIDE CALCULATIONS DEMONSTRATING THAT THE SUBSTITUTED PRODUCT IS CAPABLE OF ACHIEVING THE PERFORMANCE VALUES OF THE SPECIFIED PRODUCT INCLUDING AN EQUAL OR BETTER SHOWING COMPLIANCE WITH THE RELEVANT BUILDING CODE, SEISMIC USE, LOAD RESISTANCE, INSTALLATION CATEGORY, IN-SERVICE TEMPERATURE, INSTALLATION TEMPERATURE, ETC.

EXCEPT WHERE INDICATED ON THE DRAWINGS, EXPANSION ANCHORS SHALL BE USED WHERE ATTACHING TO CONCRETE AND MASONRY MOUNTING SHALL UTILIZE INJECTION ADHESIVE ANCHORING.

EXPANSION BOLTS SHALL BE HILTI KWIK BOLT 3 OR EQUAL. MINIMUM EMBEDMENT 4 INCHES.

ANCHORING IN SOLID BRICK MASONRY SHALL BE HILTI HIT HY-70 OR EQUAL WITH THREADED ROD, SHALL HAVE ANCHORS SPACED 2 COMPLETE BRICKS APART OR 16", AND SHALL MAINTAIN 12" FROM ALL FREE EDGES.

ANCHORING IN BRICKS WITH VOIDS SHALL BE HILTI HIY HY-70 OR EQUAL WITH THREADED ROD AND SCREEN TUBES, SHALL LIMIT ONE ANCHOR MAXIMUM PER CELL, SHALL MAINTAIN 12" FROM FREE EDGES, AND SHALL BE EMBEDDED 3-1/2 INCHES MINIMUM.

ANCHORING IN HOLLOW CONCRETE BLOCK SHALL USE 50% MORE ANCHORS THAN SHOWN IN DETAIL, SHALL LIMIT ONE ANCHOR MAXIMUM PER BLOCK CELL, SHALL MAINTAIN 12" SPACING FROM FREE EDGES, AND SHALL BE EMBEDDED THROUGH FACE.

ANCHORING IN GROUT FILLED BLOCK SHALL BE HILTI HIT HY-200 OR EQUAL WITH THREADED ROD, SHALL LIMIT ONE ANCHOR PER BLOCK, AND MAINTAIN 12 INCHES BETWEEN ANCHORS AND ALL FREE EDGES.

INJECTION ADHESIVE FOR REBAR DOWELING IN CONCRETE SHALL BE HILTI RE 500v3 ADHESIVE WITH SAFE SET (HDB) SYSTEM OR EQUAL.

ADHESIVE ANCHORS INSTALLED IN A HORIZONTALLY OR UPWARDLY INCLINED ORIENTATION INTO CONCRETE AND SUPPORTING A SUSTAINED TENSION LOAD SHALL BE INSTALLED BY A CERTIFIED ADHESIVE ANCHOR INSTALLER, PER SECTION 9.2.2 OF ACI-318-14. INSTALLER SHALL BE CERTIFIED THROUGH THE ACI/CRSI ADHESIVE ANCHOR INSTALLER CERTIFICATION PROGRAM.

AS PER OSHA 29 CFR 1926.1153 SILICA DUST CONTROL REGULATIONS, DRILLED HOLES FOR POST INSTALLED ANCHORS IN CONCRETE AND MASONRY SHALL BE INSTALLED USING HILTI SAFE SET INSTALLATION SYSTEM WHICH COMPRISES OF A CODE APPROVED HILTI HOLLOW DRILL BIT AND VACUUM. ALTERNATE INSTALLATION METHODS ARE ALSO ALLOWED WITH AN APPROVED DUSTLESS SYSTEM THAT MAINTAINS SILICA DUST EMISSION BELOW THE PERMISSIBLE LEVELS.

ANCHORS SHALL BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS AND SHALL NOT TO BE INSTALLED IN MORTAR JOINTS.

ANY DEVIATION TO THE ANCHOR LOCATIONS, SPACING, EDGE DISTANCES, ETC. FROM WHAT IS SHOWN ON THE DRAWINGS REQUIRE THE APPROVAL OF THE ENGINEER ON RECORD.

CONTRACTOR SHALL ARRANGE AN ANCHOR MANUFACTURER'S REPRESENTATIVE TO PROVIDE ON-SITE ANCHOR INSTALLATION TRAINING FOR ALL OF THEIR ANCHORING PRODUCTS SPECIFIED. CONTRACTOR SHALL SUBMIT DOCUMENTED CONFIRMATION THAT ALL OF THE CONTRACTOR'S PERSONNEL INSTALLING ANCHORS HAVE RECEIVED THE REQUIRED TRAINING PRIOR TO THE COMMENCEMENT OF WORK.

CONTINUOUS OR PERIODIC SPECIAL INSPECTION FOR POST INSTALLED ANCHORS SHALL BE PERFORMED IN ACCORDANCE WITH SECTION 4.3/4.4 OF THE ICC-ES REPORT FOR THE INDIVIDUAL ANCHOR. SPECIAL INSPECTOR SHALL BE NOTIFIED PRIOR TO COMMENCEMENT OF WORK TO COORDINATE INSPECTION EFFORTS.

05 STEEL:

THESE SPECIFICATIONS SHALL INCLUDE THE GENERAL SPECIFICATIONS HEREIN.

MATERIALS:

WIDE FLANGE	ASTM A992, GR 50
TUBING	ASTM A500, GR B
PIPE	ASTM A53, GR B
BOLTS	ASTM A325
GRATING	TYPE GW-2 (1-1/4"x3/16" BARS)
EXISTING METALS	ASTM A36

PROVIDE CERTIFICATION THAT WELDERS TO BE USED IN WORK ARE LICENSED AND HAVE SATISFACTORILY PASSED AWS QUALIFICATION TEST UNDER THE PROVISIONS OF APPENDIX D, PARTS II AND III OF THE AWS CODE FOR WELDING IN BUILDING CONSTRUCTION.

ALL BUILDING CONNECTION POINTS TO BE CENTERED ON EXISTING STRUCTURAL BEARING POINTS AND THE LOCATIONS ARE TO BE VERIFIED IN FIELD PRIOR TO THE FABRICATION OF STEEL.

DESIGN AND CONSTRUCTION OF STRUCTURAL STEEL SHALL CONFORM TO THE LATEST EDITION OF AISC SPECIFICATION FOR "THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS".

NON-STRUCTURAL CONNECTIONS FOR STEEL GRATING MAY USE 5/8" DIAMETER GALVANIZED ASTM A 307 BOLTS UNLESS OTHERWISE NOTED.

ALL STEEL MATERIAL SHALL BE GALVANIZED AFTER FABRICATION IN ACCORDANCE WITH ASTM A123 "ZINC (HOT-DIPPED GALVANIZED) COATINGS" ON IRON AND STEEL PRODUCTS WITH A COATING WEIGHT OF 2 OZ/SF.

ALL BOLTS, ANCHORS AND MISCELLANEOUS HARDWARE EXPOSED TO WEATHER SHALL BE GALVANIZED IN ACCORDANCE WITH ASTM A153 "ZINC COATING (HOT-DIP) ON IRON AND STEEL HARDWARE."

DAMAGED GALVANIZED SURFACES SHALL BE REPAIRED BY TOUCHING UP ALL DAMAGED GALVANIZED STEEL WITH COLD ZINC, "GALVANOX", "DRY GALV", OR "ZINC IT", IN ACCORDANCE WITH MANUFACTURERS GUIDELINES. TOUCH UP DAMAGED NON-GALVANIZED STEEL WITH SAME PAINT APPLIED IN SHOP OR FIELD.

THE ENGINEER SHALL BE NOTIFIED OF ANY INCORRECTLY FABRICATED, DAMAGED OR OTHERWISE MISFITTING OR NONCONFORMING MATERIALS OR CONDITIONS TO REMEDIAL OR CORRECTIVE ACTION. ANY SUCH ACTION SHALL REQUIRE ENGINEER REVIEW. FIELD CUTTING OF STRUCTURAL STEEL IS NOT PERMITTED EXCEPT WITH THE PRIOR APPROVAL OF THE ENGINEER.

CONTRACTOR TO REMOVE AND RE-INSTALL ALL FIRE PROOFING AS REQUIRED DURING CONSTRUCTION.

THE STEEL STRUCTURE SHALL BE DESIGNED TO BE SELF-SUPPORTING AND STABLE AFTER COMPLETION. IT IS THE CONTRACTOR'S SOLE RESPONSIBILITY TO DETERMINE ERECTION PROCEDURE AND SEQUENCE AND TO INSURE THE SAFETY OF THE BUILDING AND ITS COMPONENT PARTS DURING ERECTION.

ALL STEEL ELEMENTS SHALL BE INSTALLED PLUMB AND LEVEL.

TOWER MANUFACTURER'S DESIGNS SHALL PREVAIL FOR TOWER.

CONNECTIONS SHALL BE DESIGNED BY THE FABRICATOR AND CONSTRUCTED IN ACCORDANCE WITH THE LATEST EDITION OF THE AISC "MANUAL OF STEEL CONSTRUCTION" . CONNECTIONS SHALL BE PROVIDED TO CONFORM TO THE REQUIREMENTS OF TYPE 2 CONSTRUCTION.

STRUCTURAL CONNECTION BOLTS SHALL CONFORM TO ASTM A325. ALL BOLTS SHALL BE MINIMUM 3/4" DIAMETER AND EACH CONNECTION SHALL HAVE MINIMUM TWO BOLTS. LOCK WASHERS ARE NOT PERMITTED FOR A325 STEEL ASSEMBLIES. IF TENSION CONTROL BOLTS ARE USED, CONNECTIONS SHALL BE DESIGNED FOR SLIP CRITICAL BOLT ALLOWABLE LOAD VALUES.

DESIGN CONNECTIONS AT BEAM ENDS FOR 10 KIPS (MIN).

ALL U-BOLTED CONNECTIONS SHALL BE COMPLETED WITH DOUBLE NUTS OR A LOCK WASHER.

CONTRACTOR SHALL COMPLY WITH AWS CODE FOR PROCEDURES, APPEARANCE AND QUALITY OF WELDS, AND WELDING PROCESSES SHALL BE QUALIFIED IN ACCORDANCE WITH AWS "STANDARD QUALIFICATION PROCEDURES" . ALL WELDING SHALL BE PERFORMED USING E70XX ELECTRODES AND SHALL CONFORM TO AISC AND D1.1. WHERE FILLET WELD SIZES ARE NOT SHOWN, PROVIDE THE LARGER OF 1/4" FILLET OR MINIMUM SIZE PER TABLE J2.4 IN THE AISC "MANUAL OF STEEL CONSTRUCTION" . AT THE COMPLETION OF WELDING, ALL DAMAGE TO GALVANIZED COATING SHALL BE REPAIRED. SEE NOTE REGARDING DAMAGED GALVANIZED SURFACES.

ALL ARC AND GAS WELDING SHALL BE DONE BY A LICENSED AND CERTIFIED WELDER IN ACCORDANCE WITH AWS.

SEAL ALL PENETRATIONS AND SEAMS BETWEEN MASONRY AND STEEL WITH DOW CORNING 790 SILICONE BUILDING SEALANT OR EQUAL.

07 THERMAL & MOISTURE PROTECTION:

THESE SPECIFICATIONS SHALL INCLUDE THE GENERAL SPECIFICATIONS HEREIN.

FIRE-STOP ALL PENETRATIONS THROUGH BUILDING WALLS, FLOORS, AND CEILINGS, WITH LISTED AND ACCEPTED MATERIALS TO MAINTAIN THE FIRE RATING OF THE EXISTING ASSEMBLY. ALL FILL MATERIAL SHALL BE SHAPED, FITTED, AND PERMANENTLY SECURED IN PLACE. FIRESTOPPING SHALL BE INSTALLED IN ACCORD WITH ASTM E814.

HILTI CP620 FIRE FOAM OR 3M FIRE BARRIER PRODUCTS, OR EQUAL, SHALL BE USED TO FILL ALL VOIDS AND CAVITIES AND SHALL BE APPLIED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS AND ASSOCIATED UL SYSTEM NUMBER.

FIRESTOPPING SHALL BE APPLIED AS SOON AS PRACTICABLE AFTER PENETRATIONS ARE MADE AND EQUIPMENT INSTALLED.

FIRESTOPPED PENETRATIONS SHALL BE LEFT EXPOSED AND MADE AVAILABLE FOR INSPECTION BEFORE APPLYING FINISHES THAT MAY CONCEAL SUCH PENETRATION. FIRESTOPPING MATERIAL CERTIFICATES SHALL BE MADE AVAILABLE AT THE TIME OF INSPECTION.

ANY BUILDING ROOF PENETRATION OR RESTORATION SHALL BE PERFORMED SO THAT ROOF WARRANTY IN PLACE IS NOT COMPROMISED. CONTRACTOR SHALL ARRANGE FOR OWNER'S ROOFING CONTRACTOR TO PERFORM ANY AND ALL ROOFING WORK IF SO REQUIRED BY EXISTING ROOF WARRANTY. OTHERWISE, ROOF SHALL BE MADE WATERTIGHT WITH LIKE CONSTRUCTION AS SOON AS PRACTICABLE AND AT COMPLETION OF CONSTRUCTION.

ALL PENETRATIONS INTO OR THROUGH BUILDING, SHELTER, EQUIPMENT, CABINET, AND SIMILAR ENCLOSURE EXTERIOR WALLS, SHALL BE SEALED WITH SILICONE SEALER.

09 FINISHES:

THESE SPECIFICATIONS SHALL INCLUDE THE GENERAL SPECIFICATIONS HEREIN.

FIRE SEPARATION ASSEMBLIES SHALL BE 1 HOUR FIRE RATED AND SHALL CONSIST OF 3-5/8" 25 GA. GALVANIZED STEEL STUDS AND CHANNELS (ASTM C645) INSTALLED AT 16" O.C.. CHANNELS SHALL BE ATTACHED TO FLOOR AND CEILING AT 24" O.C. (MAX). STUDS SHALL BE ATTACHED TO TRACK USING SELF-TAPPING STEEL SCREWS TO EACH SIDE. MINERAL WOOL BATTS SHALL BE FIT BETWEEN STUDS AND STAPLED IN PLACE (THERMAFIBER SAFB OR EQUAL). ONE LAYER OF 5/8" GYPSUM WALLBOARD (ASTM C36, TYPE X) SHALL BE INSTALLED FROM FLOOR TO CEILING EACH SIDE IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. VINYL JOINT COMPOUND AND TAPE SHALL BE APPLIED TO ALL JOINTS AND TOP AND BOTTOM SEAMS SEALED. ALL PENETRATIONS THROUGH ASSEMBLY SHALL COMPLY WITH FIRE STOPPING SPECIFICATION.

EXISTING CONCRETE CEILINGS SHALL BE PATCHED AND PAINTED. OTHER EXISTING CEILING TYPES SHALL RECEIVE ONE LAYER OF 5/8" GYPSUM WALLBOARD (ASTM C36-TYPE X) INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS AND BE FINISHED IN ACCORDANCE WITH FIRE SEPARATION ASSEMBLY SPECIFICATION. FIRRED SPACES SHALL BE FIRESTOPPED.

ALL NEW WALLS & DOORS SHALL BE PAINTED USING BENJAMIN MOORE PAINT - ACRYLIC SEMI-GLOSS.

PAINT COLOR SHALL BE SELECTED BY CONSTRUCTION MANAGER.

ALL SURFACES TO BE PAINTED SHALL BE PREPARED IN ACCORD WITH PAINT MANUFACTURER'S RECOMMENDATIONS, PRIMED AND RECEIVE 2 FINISH COATS OF PAINT.

ALL PAINTS SHALL BE IN COMPLIANCE WITH ALL STATE, FEDERAL AND LOCAL VOLATILE ORGANIC COMPOUND REQUIREMENTS.

PAINT COLOR SHALL MATCH EXISTING ABUTTING SURFACES WHERE APPLICABLE.

NEW EQUIPMENT ROOMS SHALL HAVE VCT FLOORING AND VINYL BASE. INSTALL VINYL BASE TO BOTH SIDES OF NEW WALLS. COLORS AND PATTERNS TO BE SELECTED BY CONSTRUCTION MANAGER.

09 PAINT NOTES:

THESE SPECIFICATIONS SHALL INCLUDE THE GENERAL SPECIFICATIONS HEREIN.

PAINTING SCHEDULE:

1. FERROUS METAL
   a. CLEAN SURFACE IN CONFORMANCE TO SSPC-SP-3 STANDARDS, POWER TOOL CLEANING.
   b. PRIME BY APPLYING ONE SPOT COAT OF TENEMEC SERIES 1 PRIMER @ 2.5-3.0 MILS DRY.
   c. FINISH BY APPLYING TWO SPOT COATS OF TENEMEC SERIES 1029 (COLOR) AT 2.5 MILS PER COAT.
   d. COLOR TO MATCH EXISTING BUILDING COLOR. OWNER TO APPROVE COLOR MATCH.
2. ZINC COATED METAL
   a. PRIME BY APPLYING GALVANIZED METAL PRIMER AT SPREADING RATE RECOMMENDED BY THE MANUFACTURER TO ACHIEVE A TOTAL DRY FILM THICKNESS OF NOT LESS THAN 1.2 MILS. BENJAMIN MOORE IRON CLAD GALVANIZED METAL LATEX PRIMER #155 OR EQUAL.
   b. FINISH WITH 2 COATS OF SEMIGLOSS ACRYLIC ENAMEL APPLIED AT SPREADING RATE RECOMMENDED BY THE MANUFACTURER TO ACHIEVE A TOTAL DRY FILM THICKNESS OF NOT LESS THAN 2.6 MILS. BENJAMIN MOORE REGAL AQUAGLO VINYL-ACRYLIC LATEX ENAMEL #333 OR EQUAL.
3. ANTENNA PANELS
   a. APPLY SHERWIN WILLIAMS POLANE-B OR EQUAL. COLOR TO MATCH EXISTING STRUCTURE.
4. CABLES
   a. FIRST APPLY ONE COAT OF DTM BONDING PRIMER (2-5 MILS. DRY FINISH).
   b. FINISH WITH TWO COATS OF DTM ACRYLIC PRIMER/FINISH (2.5-5 MILS. DRY FINISH).
   c. COLOR TO MATCH EXISTING STRUCTURE.

EXAMINATION AND PREPARATION:

1. DO NOT APPLY PAINT IN SNOW, RAIN, FOG OR MIST OR WHEN RELATIVE HUMIDITY EXCEEDS 85%. DO NOT APPLY PAINT TO DAMP OR WET SURFACES.
2. VERIFY THAT SUBSTRATE CONDITIONS ARE READY TO RECEIVE WORK. EXAMINE SURFACE SCHEDULED TO BE FINISHED PRIOR TO COMMENCEMENT OF WORK. REPORT ANY CONDITION THAT MAY POTENTIALLY AFFECT PROPER APPLICATION.
3. TEST SHOP APPLIED PRIMER FOR COMPATIBILITY WITH SUBSEQUENT COVER MATERIALS.
4. PERFORM PREPARATION AND CLEANING PROCEDURE IN STRICT ACCORDANCE WITH COATING MANUFACTURER'S INSTRUCTIONS FOR EACH SUBSTRATE CONDITION.
5. CORRECT DEFECTS AND CLEAN SURFACES WHICH AFFECT WORK OF THIS SECTION. REMOVE EXISTING COATINGS THAT EXHIBIT LOOSE SURFACE DEFECTS.
6. IMPERVIOUS SURFACE: REMOVE MILDEW BY SCRUBBING WITH SOLUTION OF TRI-SODIUM PHOSPHATE AND BLEACH. RINSE WITH CLEAN WATER AND ALLOW SURFACE TO DRY.
7. ALUMINUM SURFACE SCHEDULED FOR PAINT FINISH: REMOVE SURFACE CONTAMINATION BY STEAM OR HIGH-PRESSURE WATER. REMOVE OXIDATION WITH ACID ETCH AND SOLVENT WASHING. APPLY ETCHING PRIMER IMMEDIATELY FOLLOWING CLEANING.
8. FERROUS METALS: CLEAN UNGALVANIZED FERROUS METAL SURFACES THAT HAVE NOT BEEN SHOP COATED; REMOVE OIL, GREASE, DIRT, LOOSE MILL SCALE, AND OTHER FOREIGN SUBSTANCES. USE SOLVENT OR MECHANICAL CLEANING METHODS THAT COMPLY WITH THE STEEL STRUCTURES PAINTING COUNCIL'S (SSPC) RECOMMENDATIONS. TOUCH UP BARE AREAS AND SHOP APPLIED PRIME COATS THAT HAVE BEEN DAMAGED. WIRE BRUSH, CLEAN WITH SOLVENTS RECOMMENDED BY PAINT MANUFACTURER, AND TOUCH UP WITH THE SAME PRIMER AS THE SHOP COAT.
9. GALVANIZED SURFACES: CLEAN GALVANIZED SURFACES WITH NON-PETROLEUM-BASED SOLVENTS SO SURFACE IS FREE OF OIL AND SURFACE CONTAMINANTS. REMOVE PRETREATMENT FROM GALVANIZED SHEET METAL FABRICATED FROM COIL STOCK BY MECHANICAL METHODS.
10. ANTENNA PANELS: REMOVE ALL OIL, DUST, GREASE, DIRT, AND OTHER FOREIGN MATERIAL TO ENSURE ADEQUATE ADHESION. PANELS MUST BE WIPED WITH METHYL ETHYL KETONE (MEK).
11. CABLES: REMOVE ALL OIL, DUST, GREASE. DIRT, AND OTHER FOREIGN MATERIAL TO ENSURE ADEQUATE ADHESION.

CLEANING:

COLLECT WASTE MATERIAL, WHICH MAY CONSTITUTE A FIRE HAZARD, PLACE IN CLOSED METAL CONTAINERS AND REMOVE DAILY FROM SITE.

APPLICATION:

1. APPLY PRODUCTS IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.
2. DO NOT APPLY FINISHES TO SURFACES THAT ARE NOT DRY.
3. APPLY EACH COAT TO UNIFORM FINISH.
4. APPLY EACH COAT OF PAINT SLIGHTLY DARKER THAN PRECEDING COAT.
5. SAND METAL LIGHTLY BETWEEN COATS TO ACHIEVE REQUIRED FINISH.
6. VACUUM CLEAN SURFACES FREE OF LOOSE PARTICLES. USE TACK CLOTH JUST PRIOR TO APPLYING NEXT COAT.
7. ALLOW APPLIED COAT TO DRY BEFORE NEXT COAT IS APPLIED.

COMPLETED WORK:

1. SAMPLES: PREPARE 24"x24" SAMPLE AREA FOR REVIEW.
2. MATCH APPROVED SAMPLES FOR COLOR, TEXTURE AND COVERAGE. REMOVE REFINISH OR REPAINT WORK NOT IN COMPLIANCE WITH SPECIFIED REQUIREMENTS.

13 DOORS:

THESE SPECIFICATIONS SHALL INCLUDE THE GENERAL SPECIFICATIONS HEREIN.

NEW DOORS SHALL BE 3'-0"x7'-0"x1-3/4" HOLLOW METAL WITH HOLLOW METAL FRAME THAT TOGETHER WITH HARDWARE AND WEATHERSTRIPPING SATISFY THE OPENING REQUIREMENTS OF THE FIRE SEPARATION ASSEMBLY (ASTM E152 & E163)

DOORS SHALL BE LABELED IDENTIFYING THE TESTING LABORATORY CERTIFYING PERFORMANCE RATING.

DOORS SHALL HAVE BALL BEARING HINGES, STAINLESS STEEL KICK PLATES, SILENCERS AND FIRE RATED AUTOMATIC DOOR CLOSER LOCKSET TO MEET CARRIER STANDARD REQUIREMENTS.

DOORS SHALL BE PAINTED.

23 HVAC:

THESE SPECIFICATIONS SHALL INCLUDE THE GENERAL SPECIFICATIONS HEREIN.

ALL WORK SHALL COMPLY WITH AND BE INSTALLED IN ACCORDANCE WITH ALL CODES HAVING JURISDICTION OVER THE WORK.

CONTRACTOR SHALL VERIFY EXACT LOCATION OF ALL EXIST. EQUIPMENT AND PIPING IN FIELD PRIOR TO BID, FABRICATION AND INSTALLATION OF ANY WORK.

PIPING SHOWN ON PLANS IS DIAGRAMMATIC. EXACT ROUTING OF NEW PIPING SHALL BE DETERMINE IN THE FIELD.

THE WORDS PROVIDE OR INSTALL, SHALL MEAN FURNISH AND INSTALL.

THE GENERAL CONTRACTOR SHALL PROVIDE ALL CUTTING AND PATCHING AS REQUIRED FOR THE INSTALLATION OF HIS WORK.

THIS CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF HIS WORK AND NEWLY INSTALLED OR EXIST. WORK, INCLUDING PROTECTION OF THE BUILDING OCCUPANTS, PUBLIC AND PERSONNEL, PROVIDE APPROPRIATE BARRIERS, AND SAFETY GUARDS AS REQUIRED.

LIMIT THE SPREAD OF DUST WHEN CUTTING BY INSTALLING BARRIERS TO CONTAIN AIRBORNE MATERIALS.

ANY DISRUPTION IN BUILDING SERVICES SHALL BE KEPT TO A MINIMUM AND SHALL NOT BE IMPLEMENTED WITHOUT RECEIVING PRIOR WRITTEN APPROVAL OF THE FACILITIES DIRECTOR.

ALL WORK SHALL BE COORDINATED WITH ALL TRADES AND WITH THE FACILITIES DIRECTOR RELATED TO THE INSTALLATION OF THIS PROJECT.

THE CONTRACTOR SHALL TURN OVER TO THE OWNER AT THE TIME OF COMPLETION OF ALL WORK, THREE COPIES OF THE OPERATING, MAINTENANCE AND INSTRUCTION MANUALS WHICH SHALL INCLUDE ALL EQUIPMENT BROCHURES, PIPING AND WIRING DIAGRAMS, DRAWINGS, TEMPERATURE CONTROLS, AND START-UP AND SHUTDOWN PROCEDURES OF ALL NEW EQUIPMENT INSTALLED.

THE CONTRACTOR SHALL FILE FOR ALL PERMITS AND PAY ALL FEES REQUIRED FOR THE INSTALLATION OF HIS WORK.

THE CONTRACTOR SHALL GUARANTEE ALL MATERIAL AND WORK INSTALLED BY HIM TO BE FREE OF DEFECTS AND WORKMANSHIP FOR A PERIOD OF ONE YEAR, AFTER ACCEPTANCE OF THE INSTALLATION BY THE ENGINEER AND OWNER.

THE CONTRACTOR SHALL PROVIDE ALL RIGGINGS, HOISTING AND SCAFFOLDING AS REQUIRED FOR THE INSTALLATION OF HIS WORK.

PROVIDE SLEEVES FOR AND PIPING PASSING THROUGH PARTITIONS, FLOOR OR MASONRY WALL PACK SLEEVE AROUND DUCT WITH APPROVED FIRE RATED MATERIAL. SLEEVES SHALL BE 18 GAGE GALVANIZED SHEET STEEL. SEAL ALL SLEEVES WEATHERTIGHT THROUGH EXTERIOR WALLS.

SUSPEND AND SUPPORT ALL NEW DUCTWORK AND PIPING FROM BUILDING STRUCTURE ONLY.

DUCTWORK SHALL BE FABRICATED AND INSTALLED ACCORDING TO NEW STATE CODES AND SMACNA LOW PRESSURE FLEXIBLE AND METAL DUCT STANDARDS LATEST EDITION. PROVIDE VOLUME DAMPERS WITH LOCKING QUADRANT AS INDICATED ON THE PLANS. DUCTWORK SHALL BE GALV. SHEET METAL.

PROVIDE SUPPORT STEEL AS REQUIRED FOR DUCTWORK.

ALL WIRING OF FANS, ALARMS, ETC. SHALL BE PROVIDED BY THE ELECTRICAL CONTRACTOR UNDER SUPERVISION OF THE HVAC CONTRACTOR.

COAT ALL SUPPORT STEEL EXPOSED TO WEATHER WITH 2 COATS OF RUST INHIBITING PAINT.

ALL SUPPLY DUCTWORK SHALL BE INSULATED WITH FIBERGLASS INSULATION WITH FOIL FACE VAPOR BARRIER JACKET.

THE CONTRACTOR SHALL CAP ALL DUCTWORK AS SHOWN ON PLANS AND REMOVE ALL BRANCH DUCTWORK AND FLEXIBLE DUCTWORK AS SHOWN ON PLAN.

REMOVE ALL DUCTWORK AS SHOWN ON MECHANICAL REMOVAL PLAN INCLUDING, EGG CRATE GRILLES AND OTHER ASSOCIATED DEVICES.

26 ELECTRICAL:

THESE SPECIFICATIONS SHALL INCLUDE THE GENERAL SPECIFICATIONS HEREIN.

ALL ELECTRICAL CONDUCTORS:

- INSULATION SHALL BE MINIMUM 600V TYPE THHN, THWN-2, OR XHHW.
- BRANCH CIRCUIT CONDUCTORS SHALL BE SOFT DRAWN 98% MINIMUM CONDUCTIVITY PROPERLY REFINED COPPER.
- FEEDER CIRCUIT CONDUCTORS SHALL BE EITHER COPPER OR ALUMINUM OF THE APPROPRIATE SIZE FOR THE APPLICATION, OR AS SPECIFICALLY NOTED.
- PERMANENTLY LABEL OR TAG ALL CONDUCTORS WITH THEIR CIRCUIT DESIGNATION AT ALL TERMINATION ENDS, SPLICES, AND VISIBLE AS PASS-THROUGH IN ALL ENCLOSURES.

ALL CONDUIT, RACEWAY, WIREWAYS, DUCTS, ETC. SHALL BE LISTED AND SUITABLE FOR THE APPLICATION. ONLY THE FOLLOWING CONDUITS AS APPROVED AND LISTED FOR THE APPLICATION SHALL BE ACCEPTABLE:

- ELECTRICAL METALLIC TUBING (EMT).
- COMPRESSION COUPLINGS AND CONNECTORS ONLY MADE UP WRENCH TIGHT.
- FLEXIBLE METAL CONDUIT (FMC) AND LIQUIDTIGHT FLEXIBLE METAL CONDUIT (LFMC).
- FINAL CONNECTIONS TO VIBRATING OR ADJUSTABLE EQUIPMENT INCLUDING, BUT NOT LIMITED TO, LIGHT FIXTURES, HVAC UNITS, TRANSFORMERS, MOTORS, ETC. OR WHERE EQUIPMENT IS PLACED UPON SLAB ON-GRADE.
- RIGID GALVANIZED STEEL (RGS).
- ALL FITTINGS, CONNECTORS, AND COUPLINGS SHALL BE THREADED MADE UP WRENCH TIGHT.
- RIGID POLYVINYL CHLORIDE (PVC) SCHEDULE 40 OR SCHEDULE 80.
- MAY BE USED FOR SERVICES, EXTERIOR, BELOW GRADE, AND WET LOCATIONS.
- SHALL NOT BE USED IN CONCRETE SLABS NOR EXPOSED WITHIN A BUILDING OR STRUCTURE.
- METAL-CLAD CABLE (MC)
- CONCEALED INSTALLATIONS ONLY.
- WITHIN A DUCT WITH SMOOTH OR CORRUGATED METAL JACKET AND NO OUTER COVERING OVER THE METAL JACKET.

IN FINISHED SPACES, ALL CONDUITS SHALL BE CONCEALED EXCEPT TO MAKE A FINAL CONNECTION TO EQUIPMENT NOT MOUNTED IN OR AGAINST FINISH MATERIAL.

ALL FEEDER AND BRANCH CIRCUITS SHALL HAVE A SEPARATE PROPERLY SIZED AND MARKED GROUNDING CONDUCTOR, PER APPLICABLE CODES, THAT BONDS ALL ENCLOSURES, BOXES, ETC. CONDUIT SHALL NOT BE USED AS A GROUNDING OR BONDING CONDUCTOR.

IF EXISTING ELECTRIC SERVICE IS TO REMAIN, CONTRACTOR SHALL BE VERIFY THAT IT MEETS PROJECT REQUIREMENTS WITHOUT MODIFICATION. IF IT IS TO BE ADDED OR REPLACED AS A PART OF THIS WORK, CONTRACTOR SHALL ORDER FROM, COORDINATE WITH, AND GAIN APPROVAL FROM THE ELECTRICAL UTILITY. ALL ELECTRICAL EQUIPMENT SHALL BE AS SPECIFIED AND AS APPROVED BY THE LOCAL UTILITY WHERE APPLICABLE.

ALL EQUIPMENT, ENCLOSURES, ETC. SHALL BE SUITABLE FOR THE INSTALLED ENVIRONMENT, MINIMUM NEMA 3R FOR ALL EXTERIOR INSTALLATIONS.

WIRING DEVICES SHALL BE SPECIFICATION GRADE AND WIRING DEVICE COVER PLATES SHALL BE PLASTIC WITH ENGRAVING AS SPECIFIED. COLOR SHALL BE IVORY. ALL DEVICES AND COVER PLATES SHALL BE OF THE SAME MANUFACTURER.

ALL FIRE-RATED PENETRATIONS SHALL BE SEALED USING A SUITABLE AND LISTED FIRE SEALING DEVICE OR GROUT THAT WILL MAINTAIN THE FIRE RATING OF THE STRUCTURE PENETRATED.

PROVIDE PERMANENTLY AFFIXED ENGRAVED NAMEPLATES FOR ALL CODE REQUIRED LABELING AND ON ALL PANELS, METERING, DISCONNECTS, AND ELECTRICAL EQUIPMENT THAT IDENTIFIES EQUIPMENT SERVED, ELECTRICAL SOURCE WITH CIRCUIT IDENTIFICATION, AND VOLTAGES WITHIN.

ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR ALL FINAL TERMINATIONS TO ALL EQUIPMENT.

ALL ELECTRICAL APPURTENANCES THAT ARE DISCONNECTED SHALL BE COMPLETELY REMOVED WITH EXISTING STRUCTURES TO REMAIN, REPAIRED, FINISHED, FILLED, PAINTED, ETC. ALL PANEL SCHEDULES, EQUIPMENT LABELING, AND CODE-REQUIRED LABELING, SHALL BE VERIFIED AND PROPERLY COMPLETED TO MATCH THE INSTALLATION.

26 GROUNDING:

THESE SPECIFICATIONS SHALL INCLUDE THE GENERAL SPECIFICATIONS HEREIN.

GROUND ALL SYSTEMS AND EQUIPMENT IN ACCORDANCE WITH BEST INDUSTRY PRACTICE, THE REQUIREMENTS OF THE NFPA 70 NATIONAL ELECTRICAL CODE (NEC), AND ALL OTHER APPLICABLE CODES AND REGULATIONS.

ALL GROUNDING ELECTRODES PRESENT AT EACH SERVICE LOCATION SHALL BE BONDED TOGETHER TO FORM THE GROUNDING ELECTRODE SYSTEM.

ALL EQUIPMENT ENCLOSURES, DEVICES, AND CONDUITS SHALL BE GROUNDED BY THE INSTALLATION OF A SEPARATE GROUNDING CONDUCTOR FOR ALL FEEDER AND BRANCH CIRCUITS THAT IS SIZED PER CODE OR IS OF THE SIZE INDICATED ON THE DRAWINGS, SHALL BE CONTINUOUS IN LENGTH, AND SHALL BE BONDED TO EACH ENCLOSURE PASSED THROUGH. CONDUIT SHALL NOT BE USED AS A GROUNDING OR BONDING WIRE OR CIRCUIT.

BOND ALL METALLIC CONDUITS TOGETHER THAT ARE CONNECTED TO NON-METALLIC ENCLOSURES, IN-GROUND BOXES, AND TO AN ENCLOSURE WHERE A GROUND BUS IS SPECIFIED OR SUPPLIED. ACCOMPLISH THIS BOND WITH GROUNDING CONDUCTORS MINIMUM SIZED TO THE LARGEST GROUNDING CONDUCTOR PRESENT IN THE ENCLOSURE CONNECTED TO A GROUNDING TYPE BUSHING EQUALLY SIZED OR MAXIMUM GROUND WIRE ACCOMMODATION AVAILABLE IN STANDARD MANUFACTURE FOR THE CONDUIT SIZE, WHICHEVER IS LESS.

EQUIPMENT GROUNDING AND LOAD SIDE BONDING CONDUCTORS SHALL BE SIZED PER THE CIRCUIT'S OVER-CURRENT PROTECTIVE DEVICE (OCPD) SIZE. WHERE THE UNGROUNDED CONDUCTORS ARE INCREASED IN SIZE ABOVE THE STANDARD FOR THE CIRCUIT'S OCPD, INCREASE THE GROUNDING CONDUCTOR PROPORTIONATELY TO THE CROSS-SECTIONAL AREA OF THE UNGROUNDED CONDUCTORS.

SERVICE MAIN BONDING JUMPERS AND GROUNDING ELECTRODE CONDUCTORS SHALL BE SIZED AND INSTALLED PER THE MINIMUM OF ALL APPLICABLE CODES AND REGULATIONS.

26 LIGHTNING PROTECTION:

THESE SPECIFICATIONS SHALL INCLUDE THE GENERAL SPECIFICATIONS AND THE GROUNDING SPECIFICATIONS HEREIN.

THE LIGHTNING PROTECTION GROUNDING SYSTEM (LPGS) SHALL CONSIST OF BONDING ALL EQUIPMENT AND CONDUCTIVE STRUCTURES TO LOCALIZED SINGLE-POINT GROUNDING CONNECTIONS (TYPICALLY GROUND BARS) WHICH ARE BONDED TOGETHER AND TO AN IN-GROUND SYSTEM. IF THE LPGS IS ON A BUILDING, IT SHALL BE EFFECTIVELY BONDED TO THE ELECTRICAL SERVICE MAIN BONDING JUMPER AND TO ADDITIONAL IN-GROUND ELECTRODES AS MAY BE REQUIRED OR INDICATED. IF THE LPGS IS ON A DEDICATED COMMUNICATION SITE, ALL EQUIPMENT AREAS AND TOWERS SHALL EACH HAVE THEIR OWN IN-GROUND RING WITH EVERY RING BONDED TOGETHER, AND ALL CONDUCTIVE STRUCTURES IN CLOSE PROXIMITY (FENCES, ICE BRIDGES, ISOLATED EQUIPMENT, ETC.) ALSO BONDED TO PROVIDE A COMMON ELECTRICAL EQUIPOTENTIAL SYSTEM FOR ALL CONDUCTIVE ELEMENTS AND STRUCTURES.

CONDUCTORS:

- MIN #2 AWG SOLID BARE TINNED COPPER (SBTC) FOR ALL IN-GROUND CONDUCTORS.
- MIN #2 AWG COPPER GREEN STRANDED FOR BONDING STRUCTURES, AND FOR INTER-SYSTEM BONDING OF INDIVIDUAL ELEMENTS SUCH AS GROUND BAR TO GROUND BAR.
- MIN #6 AWG COPPER GREEN STRANDED OR ALL EQUIPMENT BONDING.
- INSTALL ALL IN-GROUND CONDUCTORS IN THE SAME HORIZONTAL PLANE OR IN A DOWNWARD DIRECTION AWAY FROM THE TOWER AND EQUIPMENT AREAS.
- AVOID LONG RUNS. MAKE DIRECT RUNS AS MUCH AS POSSIBLE.
- PLACE THROUGH NON-METALLIC SLEEVES WHEN PASSING THROUGH FLOORS, WALLS, CEILINGS, AND SIMILAR STRUCTURES.
- MAKE ALL CONNECTIONS IN CONTACT WITH EARTH WITH EXOTHERMIC WELDING. MAKE ALL OTHER CONNECTIONS WITH EXOTHERMIC WELDING, IRREVERSIBLE COMPRESSION CONNECTORS, OR LISTED COMPRESSION TWO-HOLE LUGS.
- INSTALL ALL CONDUCTORS WITH A MINIMUM 18 INCH BEND RADIUS AND NO BEND LONGER THAN A 90 DEGREE ARC. ALL BENDS SHALL BE HORIZONTAL, OR DOWNWARD TOWARDS EARTH.
- ALL CONDUCTORS PASSING FROM ABOVE-GROUND TO IN-GROUND CONNECTIONS, WHERE EXPOSED, SHALL BE COVERED AND PROTECTED WITH A NON-METALLIC CONDUIT SEALED AT BOTH ENDS.
- IF 2 OR MORE IN-GROUND CONDUCTOS ARE IN THE SAME PATH (2 RINGS OVERLAPPING, BONDING FOLLOWING ANOTHER RING OR RADIAL, OR SIMILAR), COMBINE WITH A SHARED SINGLE CONDUCTOR.

EQUIPMENT AND TOWER GROUND RINGS SHALL BE:

- BONDED TO ANY CONDUCTIVE OBJECT OR STRUCTURE WITHIN 5 FEET OF EQUIPMENT GROUND RINGS AND WITHIN 20 FEET OF TOWER GROUND RINGS.
- INSTALLED MINIMUM 18 INCHES FROM FOUNDATIONS, FOOTINGS, AND SIMILAR.

INSTALL ALL IN-GROUND RINGS, RADIALS, BONDS CONNECTING THEM, AND ALL SIMILAR GROUNDING:

- MIN 30 INCHES BELOW GRADE, OR 6 INCHES BELOW THE FROST LINE, WHICHEVER IS GREATER DEPTH.
- MIN 2 FEET FROM FOUNDATIONS, FOOTINGS, OTHER GROUNDING SYSTEMS, AND SIMILAR STRUCTURES, EXCEPT WHEN MAKING A BOND TO ANY OF THESE STRUCTURES. DO NOT BOND TO FOUNDATION INTERNAL REINFORCEMENT.

ALL EQUIPMENT GROUPED IN A COMMON AREA, COMPOUND, STRUCTURE, OR SIMILAR SHALL BE BONDED TO A SINGLE-POINT GROUND, PREFERABLY AN ISOLATED GROUND BAR. BOND THE GROUND BAR TO THE SYSTEM WITH MINIMUM SINGLE BONDING CONDUCTOR. IF BONDING TO AN IN-GROUND RING, INSTALL 2 BONDING CONDUCTORS MINIMUM WITH EACH CONDUCTOR INSTALLED DIRECTIONALLY AWAY FROM EACH OTHER AND PARALLEL TO THE IN-GROUND CONDUCTOR, WITH NO TEE CONNECTIONS.

TOWER GROUNDING:

- EACH TOWER LEG SHALL BE BONDED TO ITS RING. SINGLE-LEGGED TOWERS, OR MONOPOLES, SHALL HAVE 2 BONDS ON OPPOSITE SIDES.
- BOND TO TOWER BASE, NOT TO VERTICAL TOWER STRUCTURE, AWAY FROM TOWER MOUNTING HARDWARE.
- EACH BOND SHALL HAVE A CORRESPONDING GROUND ROD ON THE RING.
- EACH BOND SHALL CONSIST OF 2 CONDUCTORS FROM THE TOWER TO ITS RING WITH EACH CONDUCTOR DIRECTED IN OPPOSITE DIRECTIONS WITH A PARALLEL CONNECTION ON THE RING ON OPPOSITE SIDES OF THE GROUND ROD.

EQUIPMENT AREA GROUNDING:

- COMMUNICATION AREAS ON EARTH SHALL HAVE A GROUND RING.
- BOND ALL EQUIPMENT TO A SINGLE-POINT GROUND (GROUND BAR).
- BOND THE EQIPMENT SINGLE-POINT GROUND TO THE EQUIPMENT GROUND RING WITH MINIMUM 2 CONDUCTORS DIRECTED IN OPPOSITE DIRECTIONS WITH PARALLEL CONNECTIONS ON THE RING.
- IF EQUIPMENT IS ENCLOSED IN A SHELTER:
- IF THE SHELTER IS CONSIDERED TO BE EXPOSED TO A DIRECT LIGHTNING STRIKE, INSTALL A BUILDING LIGHTNING PROTECTION SYSTEM PER APPLICABLE VERSION OF NFPA 780.
- BOND ALL FIXED CONDUCTIVE BUILDING COMPONENTS TOGETHER AND TO THE BUILDING RING GROUND AT THE CORNERS. THIS IS TYPICALLY CALLED THE HALO GROUND. DO NOT BOND EQUIPMENT TO THE HALO GROUND.
- BOND ALL EQUIPMENT TOGETHER TO A SINGLE-POINT OR INTERIOR EQUIPMENT RING GROUND (IEGR). BOND THE SINGLE-POINT OR IEGR TO THE EXTERNAL EQUIPMENT RING GROUND.
- PLACE GROUND RODS AT THE EQUIPMENT GROUND RING CORNERS.

GROUND RODS:

- SEPARATION SPACE BETWEEN ANY 2 GROUND RODS SHALL BE NO CLOSER THAN THEIR DEPTH. THIS APPLIES TO ALL RODS IN THE COMPLETE SYSTEM.
- DRIVE VERTICALLY IN UNDISTURBED SOIL WITH THE TOP AT SAME DEPTH AS THE IN-GROUND CONDUCTOR. IF NOT POSSIBLE TO INSTALL VERTICALLY, PLACE AS CLOSE TO VERTICAL AS POSSIBLE AND IN A DIRECTION AWAY FROM THE NEAREST ABOVE-GROUND CONDUCTIVE ELEMENT (TOWER, EQUIPMENT, ETC.).

RADIALS (TYP. NEW DEDICATED COMMUNICATION SITES):

- WHERE FEASIBLE WITH ENOUGH SPACE AVAILABLE, INSTALL A MINIMUM OF 4, MAXIMUM 10 RING RADIALS.
- EACH RADIAL'S LENGTH SHALL BE MIN 20 FT, MAX 80 FT.
- EXTEND RADIALS PERPENDICULAR FROM RINGS IN AS STRAIGHT LINE AS POSSIBLE, AWAY FROM OTHER RING GROUNDS, RADIALS, BONDS, AND SIMILAR.
- A COMMON PRACTICE IS TO PLACE 4 RADIALS FROM THE TOWER RING TO THE 4 CORNERS OF THE AVAILABLE AREA.

AT A MINIMUM, BOND ALL COMPOUND CONDUCTIVE FENCE CORNER POSTS AND GATE POSTS TO THE LPGS. PREFERABLY, INSTALL A GROUND RING THAT FOLLOWS THE FENCE LINE, BONDING ALL POSTS TO THE RING.

27 ANTENNAS & CABLES:

THESE SPECIFICATIONS SHALL INCLUDE THE GENERAL SPECIFICATIONS HEREIN.

THE CONTRACTOR SHALL FURNISH AND INSTALL ALL TRANSMISSION CABLES, JUMPERS, CONNECTORS, GROUNDING STRAPS, ANTENNAS, MOUNT AND HARDWARE. ALL MATERIALS SHALL BE INSPECTED BY THE CONTRACTOR FOR DAMAGE UPON DELIVERY. JUMPERS SHALL BE SUPPLIED AT ANTENNAS AND EQUIPMENT INSIDE SHELTER. COORDINATE LENGTH OF JUMPER CABLES WITH OWNER. COORDINATE AND VERIFY ALL OF THE MATERIALS TO BE PROVIDED WITH OWNER PRIOR TO SUBMITTING BID AND ORDERING MATERIALS.

AFTER INSTALLATION, THE TRANSMISSION LINE SYSTEM SHALL BE PIM / SWEEP TESTED FOR PROPER INSTALLATION AND DAMAGE WITH ANTENNAS CONNECTED. CONTRACTOR SHALL OBTAIN AND USE LATEST TESTING PROCEDURES FROM OWNER OR MANUFACTURER PRIOR TO BIDDING.

ANTENNA CABLES SHALL BE UNIQUELY COLOR-CODED AT THE ANTENNAS, BOTH SIDES OF EQUIPMENT SHELTER WALL, AND JUMPER CABLES AT THE EQUIPMENT.

THE CONTRACTOR SHALL FURNISH AND INSTALL ALL CONNECTORS, ASSOCIATED CABLE MOUNTING AND GROUNDING HARDWARE, WALL MOUNTS, STANDOFFS, AND ALL ASSOCIATED HARDWARE TO INSTALL ALL CABLES AND ANTENNAS TO THE MANUFACTURER'S AND OWNER'S SPECIFICATIONS.

ANTENNA CABLES SHALL BE FOAM DIELECTRIC COAX, FIBER, OR HYBRID AS SPECIFIED.

UNLESS OTHERWISE NOTED, FOAM DIELECTRIC COAX CABLES SHALL BE:

- 7/8" DIAMETER AT OR LESS THAN 100 FT IN LENGTH.
- 1 5/8" DIAMETER GREATER THAN 100 FT IN LENGTH.

HYBRID CABLES THAT INCLUDE METALLIC POWER CONDUCTORS SHALL BE OF A LENGTH AND SIZE FOR A MAXIMUM VOLTAGE DROP OF 3% FOR THE APPLICATION.

MINIMUM BENDING RADIUS FOR CABLES SHALL BE:

- COAX: 15 FT FOR 7/8" COAX AND 25 FT FOR 1 5/8" COAX.
- ALL OTHERS: MIN 20 TIMES THE OUTSIDE DIAMETER OR MFR SPECS WHICHEVER IS GREATER.

ALL EXTERIOR CABLE CONNECTIONS SHALL BE COVERED WITH A WATERPROOF SPLICING KIT.

CONTRACTOR SHALL VERIFY EXACT LENGTH AND DIRECTION OF TRAVEL IN FIELD PRIOR TO CONSTRUCTION.

CABLE SHALL BE FURNISHED AND INSTALLED WITHOUT SPLICES AND WITH CONNECTORS AT EACH END.

27 CABLE TRAY:

THESE SPECIFICATIONS SHALL INCLUDE THE GENERAL SPECIFICATIONS HEREIN.

CABLE TRAY SHALL BE MADE OF EITHER CORROSION RESISTANT METAL OR WITH A CORROSION RESISTANT FINISH.

CABLE TRAY SHALL BE OF LADDER TRAY TYPE WITH FLAT COVER CLAMPED TO SIDE RAILS.

CABLE LADDER SHALL BE SIZED TO FIT ALL CABLES IN ACCORDANCE WITH NEC AND NEMA 11-15-84.

CABLE LADDER TRAYS SHALL BE NEMA CLASS 12A BY PW INDUSTRIES, INC. OR EQUAL.

CABLE LADDER TRAY SHALL BE SUPPORTED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.

ALL WORKMANSHIP SHALL CONFORM TO THESE REQUIREMENTS AND ALL LOCAL CODES AND STANDARDS TO ENSURE SAFE AND ADEQUATE GROUNDING SYSTEM.

31 EXCAVATION & FILL:

THESE SPECIFICATIONS SHALL INCLUDE THE GENERAL SPECIFICATIONS HEREIN.

CONTRACTOR SHALL GRADE ONLY AREAS SHOWN TO BE MODIFIED AS A PART OF THIS WORK AND ONLY TO THE EXTENT REQUIRED TO SHED OVERLAND WATER FLOW AWAY FROM SITE. ALL MADE SLOPES SHALL NOT BE STEEPER THAN 3:1 (HORIZONTAL:VERTICAL). SEDIMENTATION AND EROSION CONTROLS SHOWN AND SPECIFIED SHALL BE ESTABLISHED BEFORE STRIPPING EXISTING VEGETATION.

ORGANIC MATERIAL AND DEBRIS SHALL BE STRIPPED AND STOCKPILED BEFORE ADDING FILL MATERIAL.

NO FILL OR EMBANKMENT MATERIAL SHALL BE PLACED ON FROZEN GROUND. FROZEN MATERIALS, SNOW OR ICE SHALL NOT BE PLACED IN ANY FILL OR EMBANKMENT.

ALL FILL SHALL BE PLACED IN ONE FOOT LIFTS AND COMPACTED IN PLACE. STRUCTURAL FILL SHALL BE COMPACTED TO 95% OF ITS MAXIMUM DRY UNIT WEIGHT TESTED IN ACCORDANCE WITH ASTM D1557.

EXCAVATIONS FOR FOOTINGS SHALL BE CUT LEVEL TO THE REQUIRED DEPTH AND TO UNDISTURBED SOIL. REPORT UNSUITABLE SOIL CONDITIONS TO THE CONSTRUCTION MANAGER.

TRENCH EXCAVATIONS SHALL BE BACKFILLED AT THE END OF EACH DAY.

TOWER FOUNDATION EXCAVATION, BACKFILL AND COMPACTION SHALL BE IN ACCORDANCE WITH TOWER MANUFACTURER'S DESIGNS AND SPECIFICATIONS.

NATIVE GRAVEL MATERIAL MAY BE USED FOR TRENCH BACKFILL WHERE SELECT MATERIAL IS NOT SPECIFIED. GRAVEL MATERIAL FOR CONDUIT TRENCH BACKFILL SHALL NOT CONTAIN ROCK GREATER THAN 2 INCHES IN DIAMETER.

BANK OR CRUSHED GRAVEL SHALL CONSIST OF TOUGH, DURABLE PARTICLES OF CRUSHED OR UNCRUSHED GRAVEL FREE OF SOFT, THIN, ELONGATED OR LAMINATED PIECES AND MEET THE SPECIFIED GRADATION.

PROCESSED AGGREGATE BASE SHALL CONSIST OF COURSE AND FINE AGGREGATES COMBINED AND MIXED SO THAT THE RESULTING MATERIAL CONFORMS TO THE GRADATION. COURSE AGGREGATE SHALL BE EITHER GRAVEL OR BROKEN STONE AND FINE AGGREGATE SHALL CONSIST OF SAND.

BANK GRAVEL FILL SHALL PASS WITH THE FOLLOWING SIZE SQUARE MESH SIEVES:

- 25-60% WITH PASS 1/4"
- 15-45% WITH PASS #10
- 2-25% WITH PASS #40
- 0-10% WITH PASS #100
- 0-5% WITH PASS #200

BANK GRAVEL BASE SHALL PASS WITH THE FOLLOWING SIZE SQUARE MESH SIEVES:

100%	WITH PASS 5"
100%	WITH PASS 3-1/2"
100%	WITH PASS 2-1/4"
95-100%	WITH PASS 2"
55-100%	WITH PASS 1-1/2"
25-60%	WITH PASS 1/4"
15-45%	WITH PASS #10
5-25%	WITH PASS #40
0-10%	WITH PASS #100
0-5%	WITH PASS #200

PROCESSED AGG BASE SHALL PASS WITH THE FOLLOWING SIZE SQUARE MESH SIEVES:

90-100%	WITH PASS 3-1/2"
55-95%	WITH PASS 1-1/2"
50-75%	WITH PASS 3/4"
25-45%	WITH PASS 1/4"
5-20%	WITH PASS #40
2-12%	WITH PASS #100

FILL MATERIAL SHALL BE FREE OF ORGANIC MATERIAL, ICE, TRASH AND DEBRIS. REFER TO GEOTECHNICAL ENGINEERING AS APPLICABLE FOR ALL FILL MATERIAL REQUIREMENTS.

31 SEDIMENTATION & EROSION CONTROL:

THESE SPECIFICATIONS SHALL INCLUDE THE GENERAL SPECIFICATIONS HEREIN.

CONTRACTOR SHALL MINIMIZE DISTURBANCE TO EXIST. SITE DURING CONSTRUCTION. EROSION CONTROL MEASURES, IF REQUIRED DURING CONSTRUCTION, SHALL BE IN CONFORMANCE WITH THE LOCAL GUIDELINES FOR EROSION AND SEDIMENTATION CONTROL.

LIMITS OF CLEARING AND GRUBBING SHALL BE CLEARLY MARKED BEFORE COMMENCING WITH SUCH WORK.

SEDIMENTATION AND EROSION CONTROL (SEC) MEASURES SHOWN SHALL BE INSTALLED PRIOR TO LAND CLEARING, EXCAVATION OR GRADING OPERATIONS. REQUIREMENTS OF LOCAL WETLAND AGENCY SHALL BE MET PRIOR TO EARTHWORK OPERATIONS.

IT IS THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN SEC MEASURES THROUGHOUT DURATION OF PROJECT UNTIL DISTURBED LAND IS THOROUGHLY VEGETATED.

FAILURE OF THE SEC SYSTEMS SHALL BE CORRECTED IMMEDIATELY AND SUPPLEMENTED WITH ADDITIONAL MEASURES AS NEEDED.

TOPSOIL SHALL BE SPREAD TO FINISH GRADES AND SEEDED AS SOON AS FINISHED GRADES ARE ESTABLISHED. STRAW MULCH, JUTE NETTING OR MATS SHALL BE USED WHERE THE NEW SEED IS PLACED.

VEGETATIVE SEEDING:

- AREA TO BE SEEDED SHALL BE LOOSE AND FRIABLE TO A DEPTH OF 3". TOPSOIL SHALL BE LOOSENED BY RAKING OR DISKING BEFORE SEEDING. APPLY 50 Lbs. OF DOLOMITIC LIMESTONE AND 25 Lbs. OF 10-10-10 FERTILIZER PER 1000 SF. HARROW LIME AND FERTILIZER INTO LOOSE SOIL.
- APPLY COMMON BERMUDA AND RYE GRASS AT 50 LBS PER ACRE. USE CYCLONE SEED DRILL CULTIPACKER SEEDER OR HYDROSEEDER (SEED & FERTILIZER SLURRY) FOR STEEP SLOPES. IRRIGATE UNTIL VEGETATION IS COMPLETELY ESTABLISHED.

32 FENCING:

THESE SPECIFICATIONS SHALL INCLUDE THE GENERAL SPECIFICATIONS HEREIN.

INSTALL FENCING PER ASTM F-567, AND SWING GATES PER ASTM F- 900. ALL FENCING MATERIAL SHALL BE AS FOLLOWS:

- ALL GATE POSTS, CORNERS, TERMINALS AND PULL POSTS SHALL BE 2-1/2"Ø SCHEDULE 40 FOR SINGLE GATE WIDTHS UP TO 6 FEET AND DOUBLE GATE WIDTHS UP TO 12 FEET. GATES SHAL CONFORM TO ASTM-F1083.
- LINE POSTS SHALL BE 2"Ø SCHEDULE 40 PIPE PER ASTM-F1083.
- GATE FRAMES SHALL BE 1-1/2"Ø SCHEDULE 40 PIPE PER ASTM-F1083.
- TOP RAILS & BRACE RAILS SHALL BE 1-1/2"Ø SCHEDULE 40 PIPE PER ASTM-F1083.
- FABRIC SHALL BE 12 GAUGE CORE WIRE SIZE 2" MESH, CONFORMING TO ASTM-A392.
- TIE WIRE SHALL BE MINIMUM 11 GAUGE GALVANIZED STEEL AT POSTS AND RAILS. A SINGLE WRAP OF FABRIC TIE AND AT TENSION WIRE BY HOG RINGS SPACED MAX 24" INTERVALS.
- TENSION WIRE: 7 GA. GALVANIZED STEEL.
- BARBED WIRE: DOUBLE STRAND 12-1/2" O.D. TWISTED WIRE TO MATCH W/ FABRIC 14 GA., 4 PT. BARBS SPACED ON APPROXIMATELY 5" CENTERS.
- GATE LATCH: DROP DOWN LOCKABLE FORK LATCH AND LOCK, KEYED ALIKE FOR ALL SITES.

FENCE HEIGHT SHALL BE 6' VERTICAL + 1' BARBED WIRE VERTICAL. LOCAL ORDINANCE OR BARBED WIRE PERMIT REQUIREMENTS SHALL BE COMPLIED WITH AS APPLICABLE.

verizon

4 CENTEROCK ROAD
WEST NYACK, NY 10994

APT ENGINEERING

567 VAUXHAUL STREET EXTENSION - SUITE 311
WATERFORD, CT 06385 PHONE: (860)-663-1697
WWW.ALLPOINTSTECH.COM FAX: (860)-663-0935

PERMITTING DOCUMENTS

NO	DATE	REVISION
0	04/15/19	FOR REVIEW: RCB
1	05/08/19	ATTORNEY REVISIONS: RCB
2	07/17/19	ATTORNEY REVISIONS: RCB
3	03/06/20	REVISED LAYOUT: RCB
4	03/12/20	ATTORNEY REVISIONS: RCB
5	03/19/20	ATTORNEY REVISIONS: RCB
6	03/30/20	ATTORNEY REVISIONS: RCB
7	06/19/20	TOWN COMMENTS: RCB
8	07/24/20	FOR REVIEW: RCB
9	07/29/20	FOR REVIEW: RCB
10	07/31/20	ATTORNEY REVISIONS: RCB

DESIGN PROFESSIONALS OF RECORD

PROF: SCOTT M. CHASSE P.E.
COMP: APT ENGINEERING
ADD: 567 VAUXHAUL STREET EXTENSION - SUITE311 WATERFORD, CT 06385

OWNER: TOWN OF EAST HAMPTON
ADDRESS: 159 PANTIGO ROAD EAST HAMPTON, NY 11937

NOTE:
IT IS A VIOLATION OF NEW YORK STATE EDUCATION LAW ARTICLE 145, SECTION 7209 (2) FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER OR LAND SURVEYOR, TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE SEAL OF AN ENGINEER OR LAND SURVEYOR IS ALTERED, THE ALTERING ENGINEER OR LAND SURVEYOR SHALL AFFIX TO THE ITEM HIS SEAL AND THE NOTATION "ALTERED BY" FOLLOWED BY THE SIGNATURE AND THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

VERIZON WIRELESS AT "WAINSCOTT 3"

SITE ADDRESS: 106 STEPHEN HANDS PATH WAINSCOTT, NY 11937

APT FILING NUMBER: NY141NB3300

PROJECT CODE: 20171584246

LOCATION CODE: 446966

VZ CM:	OZ	DRAWN BY:	ELZ
DATE:	04/15/19	CHECKED BY:	RCB

SHEET TITLE:

NOTES & SPECIFICATIONS

SHEET NUMBER:

N-1

STATE OF NEW YORK · SCOTT M. CHASSE · LICENSED PROFESSIONAL ENGINEER · #078603