ROBERT LAGA
Chairman

NICHOLAS FANNIN
Vice Chairman

RICHARD FRANZETTI, P.E.
Wetland Inspector

ROSE TROMBETTA
Secretary

TOWN OF CARMEL

ENVIRONMENTAL CONSERVATION BOARD

60 McAlpin Avenue
Mahopac, New York 10541
Tel. (845) 628-1500 - Ext. 190
www.ci.carmel.ny.us

BOARD MEMBERS

Edward Barnett
Vincent Turano

ENVIRONMENTAL CONSERVATION BOARD AGENDA

NOVEMBER 7, 2019 – 7:30 P.M.

PLANNING BOARD REFERRAL

APPLICANT	ADDRESS	TAX MAP #	COMMENTS
1. Homeland Towers LLC - NYSMSA Limited Partnership	254 Croton Falls Road	65.19-1-43	Installation of Utilities and Drainage Repair Work for Existing Access Drive

SUBMISSION OF AN APPLICATION OR LETTER OF PERMISSION

2. The Water Club at Lake Mahopac Condo	141 East Lake Blvd	76.30-1-21	Beach Renovation

MISCELLANEOUS

3. Minutes – 9/5/19 & 10/3/19

LAW OFFICES OF
SNYDER & SNYDER, LLP
94 WHITE PLAINS ROAD
TARRYTOWN, NEW YORK 10591
(914) 333-0700
FAX (914) 333-0743

NEW YORK OFFICE
445 PARK AVENUE, 9TH FLOOR
NEW YORK, NEW YORK 10022
(212) 749-1448
FAX (212) 932-2693

LESLIE J. SNYDER
ROBERT D. GAUDIOSO

DAVID L. SNYDER
(1956-2012)

WRITER'S E-MAIL ADDRESS

rgaudioso@snyderlaw.net

NEW JERSEY OFFICE
ONE GATEWAY CENTER, SUITE 2600
NEWARK, NEW JERSEY 07102
(973) 824-9772
FAX (973) 824-9774

REPLY TO:

TARRYTOWN OFFICE

September 27, 2019

Honorable Chairman Robert Laga and
Members of the Environmental Conservation Board
Town of Carmel Town Hall
60 McAlpin Avenue
Mahopac, New York 10541

Re: Application for a Wireless Telecommunications Facility located at
Lake Casse: 254 Croton Falls Road, Carmel, New York

Honorable Chairman Robert Laga and
Members of the Environmental Conservation Board:

We are the attorneys for Homeland Towers LLC ("Homeland") and New York SMSA Limited Partnership d/b/a Verizon Wireless ("Verizon") (collectively, the "Applicants") in connection with their request to locate a public utility wireless telecommunications facility ("Facility") at the above captioned property ("Property").

As we discussed, the utilities installed for the Facility will be underground and partially within an adjacent 100 foot wetlands buffer. In accordance with §89-12(H) (Item 36) and §89-6 the Applicants respectfully request a Letter of Permission for approval of the installation of utilities in the buffer area. In the alternative the Applicants respectfully request the issuance of a Wetlands Permit for the related activity in the buffer area.

In addition there will be limited maintenance work on the drainage features for the access drive in order to further reduce stormwater runoff, a part of which will occur in the 100 foot buffer area. Although this Facility is utilizing an existing access drive and will not increase any existing conditions there have been requests from neighboring property owners to help reduce the existing drainage conditions on the Property, and the Applicants have voluntarily agreed to assist by repairing and improving the drainage features for the existing access drive to the extent approved by this Board. In accordance with § 89-4(C)(5) and § 89-12(D)(Item 10), and highlighting that only part of the work will occur in the 100 foot buffer area, the Applicants respectfully submit that the repair of the drainage features for the existing access drive is an exempt action not requiring approval. However in the alternative the Applicants respectfully request that a Letter of Permission or a Wetlands Permit be issued for the proposed activity.

In response to the ECB comments on September 5, 2019 enclosed please find four (4) copies of the following materials:

1. Letter of Authorization from the Property Owner;

2. Response letter from APT Engineering detailing the requested Site Plan changes; and

3. Revised Site Plan.

We thank you for your consideration, and look forward to discussing this matter at next Environmental Conservation Board meeting. If you have any questions or require any additional documentation, please do not hesitate to contact me at 914-333-0700.

Snyder & Snyder, LLP

By: _____
Robert D. Gaudioso

RDG/djk
Enclosures
z:\ssdata\wpdata\ss3\rdg\homelandtowers\carmel\056 (casse)\ecb letter ny056 casse 9.27.19.rtf

HOMELAND TOWERS

Letter of Authorization

Municipality: Town of Carmel
Tax Map Number: 65.19-1-43

RE: **Owner Authorization**

Richard J. Diehl and Rosemarie Diehl ("Owner"), of property located at Croton Falls Road, (identified as Tax Map # 65.19-1-43) in the Town of Carmel, County of Putnam, State of New York, (the "Property") does hereby authorize Homeland Towers, LLC ("Homeland") and its agents and representatives, as Owner's Agent for the purpose of completing, executing, and filing any application(s) with the Town of Carmel and to obtain approvals necessary to permit Homeland's construction and operation of a wireless communications facility on the Property.

By: Richard J. Diehl

Title: OWNER

Date: 7-9-18

Sworn to before me this
9 day of July, 2018

Denise Nizolek
Notary Public, State of New York
Registration no. 01NI6218997
Qualified in Putnam County
Commission Expires March 15, 2022

NOTARY PUBLIC

By: Rosemarie Diehl

Title: Owner

Date: 7/9/18

Sworn to before me this
9 day of July, 2018

Denise Nizolek
Notary Public, State of New York
Registration no. 01NI6218997
Qualified in Putnam County
Commission Expires March 15, 2022

NOTARY PUBLIC

APT ENGINEERING

Honorable Chairman Craig Paeprer
and Members of the Planning Board
Town of Carmel
60 McAlpin Avenue
Mahopac, NY 10541

September 17, 2019

RE: Homeland Towers Site Name: Lake Casse NY056
254 Croton Falls Road
Carmel, NY 10541
Response to ECB Comments

Honorable Chairman and Members of the Board:

Please note the following items have been addressed on the 09-17-2019 Zoning Drawing set:

- A note has been added to details 11 and 12 on Drawing C-3 detailing the maintenance of the proposed Check Dams and Grass Lined Swale.
- Petroleum Materials Storage & Spill Prevention Notes have been added to the Drawing EC-2.
- A Construction Vehicle Storage Area has been added to Drawing SP-2.
- Proposed plantings in the area of the proposed Grass Lined Swale have been shown on Drawings SP-2 and SP-3.
- A proposed Concrete washout location has been added to Drawing SP-2 and a detail has been added to Drawing C-3.
- The subject parcel is located within the New York City Watershed East of the Hudson therefore a SWPPP will be required and the project will be submitted for a NYSDEC SW permit. The revised Zoning Drawings dated 09-17-2019 are to serve as the SWPPP.

Should you have any questions, please do not hesitate to call me at (860) 663-1697 x206.

Sincerely,

APT Engineering

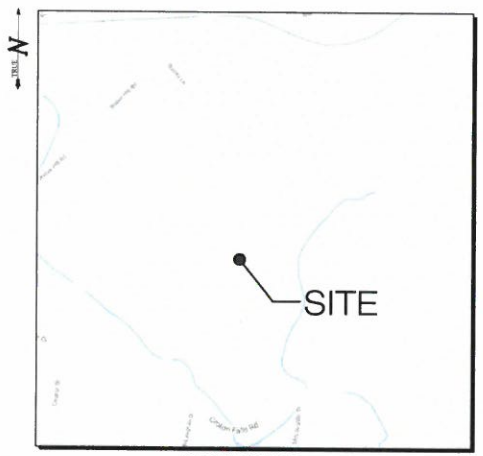
Robert C. Burns, P.E.
Program Manager

APT ENGINEERING
☐ 3 SADDLEBROOK DRIVE · KILLINGWORTH, CT 06419 · PHONE 860-663-1697 · FAX 860-663-0935
☐ P.O. BOX 504 · 116 GRANDVIEW ROAD · CONWAY, NH 03818 · PHONE 603-496-5853 · FAX 603-447-2124

HOMELAND TOWERS, LLC

WIRELESS TELECOMMUNICATIONS FACILITY

LAKE CASSE
254 CROTON FALLS ROAD
CARMEL, NY 10541



VICINITY MAP
SCALE: 1" = 500'

DRAWING INDEX

T-1	TITLE SHEET & INDEX
1 - 4	TOPOGRAPHIC SURVEY
R-1	1,000' RADIUS MAP
R-2	1,000' RADIUS PROPERTY OWNERS
SP-1	SITE PLAN
SP-2	PARTIAL SITE PLAN
SP-3	PARTIAL SITE PLAN
SP-4	EXISTING DRIVEWAY PROFILE
SP-5	TRUCK TURNING PATH
CP-1	COMPOUND PLAN
A-1	ELEVATIONS
A-2	ELEVATIONS
EC-1	EROSION CONTROL PLAN
EC-2	EROSION CONTROL NOTES
EC-3	EROSION CONTROL DETAILS
C-1	VERIZON EQUIPMENT PLAN & DETAILS
C-2	VERIZON ANTENNA PLAN & DETAILS
C-3	SITE DETAILS
C-4	VERIZON EQUIPMENT LIGHTING DETAILS

SITE INFORMATION

PROJECT LOCATION: 254 CROTON FALLS ROAD
CARMEL, NY 10541

PROJECT DESCRIPTION: RAWLAND SITE W/ GROUND EQUIPMENT WITHIN 3,600 SF TELECOMMUNICATIONS COMPOUND W/ NEW 140'± AGL MONOPINE.

PROPERTY DEVELOPER: HOMELAND TOWERS, LLC
9 HARMONY STREET
2ND FLOOR
DANBURY, CT 06810

DEVELOPER CONTACT: RAY VERGATI
(203) 297-6345

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

LATITUDE: 41° 22' 40.5409"N
LONGITUDE: 73° 42' 14.0725"W
ELEVATION: 585.6'± AMSL

SECTION: 65.19
BLOCK: 1
LOT: 43
ZONE: RESIDENTIAL

OWNER:
RICHARD J. & ROSEMARIE DIEHL
254 CROTON FALLS ROAD
MAHOPAC, NY 10541

APPLICANTS:
HOMELAND TOWERS, LLC
9 HARMONY STREET
2ND FLOOR
DANBURY, CT 06810
RAY VERGATI
(203) 297-6345

VERIZON
4 CENTEROCK RD.
WEST NYACK, NY 10994

HOMELAND PROJECT ATTORNEY:
SNYDER & SNYDER, LLP
94 WHITE PLAINS ROAD
TARRYTOWN, NY 10591
(914) 333-0700

POWER PROVIDER:
NYSEG: (585) 484-2223

TELCO PROVIDER:
VERIZON (914) 890-0200

DIG SAFELY NEW YORK:
(800) 962-7962

GOVERNING CODES:
2015 IBC W/ 2017 NYS UNIFORM CODE SUPPLEMENT
NATIONAL ELECTRIC CODE
TIA-222-G

TOWN OF CARMEL ZONING CODE
SECTION 156-62

HOMELAND TOWERS, LLC
9 HARMONY STREET
2nd FLOOR
DANBURY, CT 06810
(203) 297-6345

verizon
4 CENTEROCK ROAD
WEST NYACK, NY 10994

APT ENGINEERING
3 SADDLEBROOK DRIVE
KILLINGWORTH, CT 06419
PHONE: (860)-663-1697
FAX: (860)-663-0835
WWW.ALLPOINTSTECH.COM

PERMITTING DOCUMENTS

NO	DATE	REVISION
0	07/05/18	FOR REVIEW: RCB
1	07/25/18	CLIENT REVS: RCB
2	07/26/18	CLIENT REVS: RCB
3	11/12/18	TOWN COMMENTS: RCB
4	03/13/19	TOWN COMMENTS: RCB
5	05/03/19	TOWN COMMENTS: RCB
6	05/07/19	TOWN COMMENTS: RCB
7	06/24/19	TOWN COMMENTS: RCB
8	07/12/19	CLIENT REVS: RCB
9	08/06/19	TOWN COMMENTS: RCB
10	08/13/19	ATTY COMMENTS: RCB
11	09/17/19	ECB COMMENTS: RCB

DESIGN PROFESSIONALS OF RECORD

PROF: SCOTT M. CHASSE P.E.
COMP: APT ENGINEERING
ADD: 3 SADDLEBROOK DRIVE
KILLINGWORTH, CT 06419

DEVELOPER: HOMELAND TOWERS, LLC
ADDRESS: 9 HARMONY STREET
2ND FLOOR
DANBURY, CT 06810

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.

HOMELAND TOWERS
LAKE CASSE

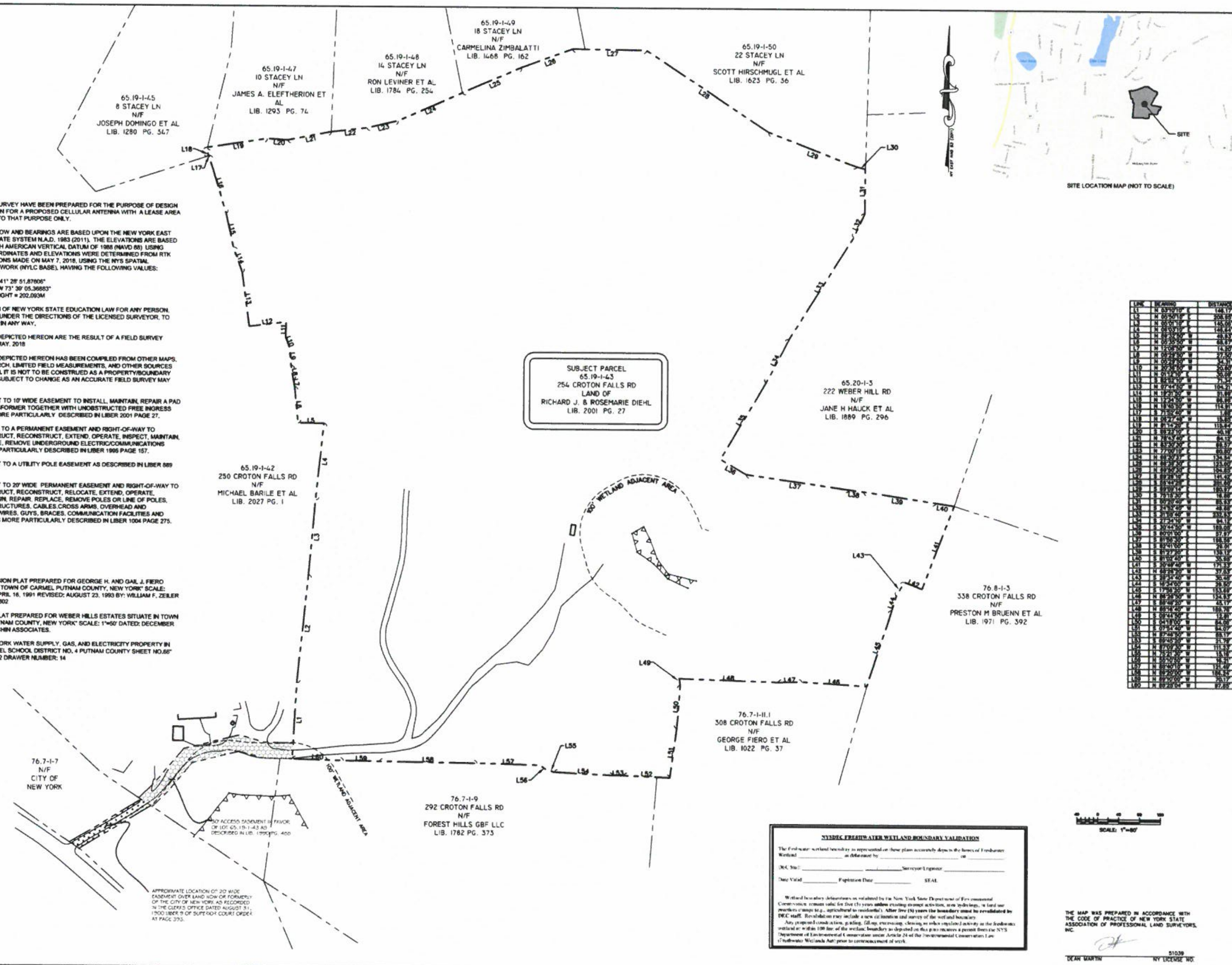
SITE ADDRESS: 254 CROTON FALLS ROAD
CARMEL, NY 10541

APT FILING NUMBER: NY283550

DATE: 07/05/18 | DRAWN BY: CSH
CHECKED BY: RCB

SHEET TITLE:
TITLE SHEET & INDEX

SHEET NUMBER:
T-1



MAP NOTES:

1. THIS MAP AND SURVEY HAVE BEEN PREPARED FOR THE PURPOSE OF DESIGN AND APPLICATION FOR A PROPOSED CELLULAR ANTENNA WITH A LEASE AREA AND IS LIMITED TO THAT PURPOSE ONLY.
2. THE NORTH ARROW AND BEARINGS ARE BASED UPON THE NEW YORK EAST STATE COORDINATE SYSTEM N.A.D. 1983 (2011). THE ELEVATIONS ARE BASED UPON THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88) USING GEOID 12B. COORDINATES AND ELEVATIONS WERE DETERMINED FROM RTK GPS OBSERVATIONS MADE ON MAY 7, 2018, USING THE NYS SPATIAL REFERENCE NETWORK (NYLC BASE), HAVING THE FOLLOWING VALUES:

   LATITUDE = N 41° 28' 51.87606"
   LONGITUDE= W 73° 39' 05.36883"
   ELLIPSOID HEIGHT = 202.093M

3. IT IS A VIOLATION OF NEW YORK STATE EDUCATION LAW FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTIONS OF THE LICENSED SURVEYOR, TO ALTER ANY ITEM IN ANY WAY.
4. THE FEATURES DEPICTED HEREON ARE THE RESULT OF A FIELD SURVEY CONDUCTED IN MAY, 2018
5. THE PROPERTY DEPICTED HEREON HAS BEEN COMPILED FROM OTHER MAPS, RECORD RESEARCH, LIMITED FIELD MEASUREMENTS, AND OTHER SOURCES OF INFORMATION. IT IS NOT TO BE CONSTRUED AS A PROPERTY/BOUNDARY SURVEY AND IS SUBJECT TO CHANGE AS AN ACCURATE FIELD SURVEY MAY DISCLOSE.
6. PARCEL SUBJECT TO 10' WIDE EASEMENT TO INSTALL, MAINTAIN, REPAIR A PAD MOUNTED TRANSFORMER TOGETHER WITH UNOBSTRUCTED FREE INGRESS AND EGRESS, MORE PARTICULARLY DESCRIBED IN LIBER 2001 PAGE 27.
7. PARCEL SUBJECT TO A PERMANENT EASEMENT AND RIGHT-OF-WAY TO INSTALL, CONSTRUCT, RECONSTRUCT, EXTEND, OPERATE, INSPECT, MAINTAIN, REPAIR, REPLACE, REMOVE UNDERGROUND ELECTRIC/COMMUNICATIONS SYSTEMS MORE PARTICULARLY DESCRIBED IN LIBER 1996 PAGE 157.
8. PARCEL SUBJECT TO A UTILITY POLE EASEMENT AS DESCRIBED IN LIBER 889 PAGE 66.
9. PARCEL SUBJECT TO 20' WIDE PERMANENT EASEMENT AND RIGHT-OF-WAY TO INSTALL, CONSTRUCT, RECONSTRUCT, RELOCATE, EXTEND, OPERATE, INSPECT, MAINTAIN, REPAIR, REPLACE, REMOVE POLES OR LINE OF POLES, SUPPORTING STRUCTURES, CABLES,CROSS ARMS, OVERHEAD AND UNDERGROUND WIRES, GUYS, BRACES, COMMUNICATION FACILITIES AND OTHER FIXTURES MORE PARTICULARLY DESCRIBED IN LIBER 1004 PAGE 275.

MAP REFERENCES:

A. "FINAL SUBDIVISION PLAT PREPARED FOR GEORGE H. AND GAIL J. FIERO SITUATE IN THE TOWN OF CARMEL PUTNAM COUNTY, NEW YORK" SCALE: 1"=50' DATED: APRIL 16, 1991 REVISED: AUGUST 23, 1993 BY: WILLIAM F. ZEILER MAP NUMBER: 2602
B. "SUBDIVISION PLAT PREPARED FOR WEBER HILLS ESTATES SITUATE IN TOWN OF CARMEL PUTNAM COUNTY, NEW YORK" SCALE: 1"=50' DATED: DECEMBER 20, 1993 BY: CASHIN ASSOCIATES.
C. "CITY OF NEW YORK WATER SUPPLY, GAS, AND ELECTRICITY PROPERTY IN TOWN OF CARMEL SCHOOL DISTRICT NO. 4 PUTNAM COUNTY SHEET NO.65" CASE NUMBER: 2 DRAWER NUMBER: 14

LINE	BEARING	DISTANCE
L1	N 03°10'10" E	148.17'
L2	N [illegible] E	208.65'
L3	N [illegible] E	145.08'
L4	N [illegible] E	148.64'
L5	N [illegible] W	49.83'
L6	N [illegible] W	68.67'
L7	N [illegible] W	14.20'
L8	N [illegible] W	27.50'
L9	N [illegible] W	[illegible]
L10	N [illegible] W	20.60'
L11	N [illegible] E	[illegible]
L12	S [illegible] W	[illegible]
L13	N [illegible] W	104.21'
L14	N [illegible] W	[illegible]
L15	N [illegible] W	[illegible]
L16	N [illegible] W	114.91'
L17	S [illegible] W	1.88'
L18	N [illegible] W	[illegible]
L19	N [illegible] E	115.64'
L20	S [illegible] E	40.18'
L21	N [illegible] E	84.12'
L22	N [illegible] E	68.57'
L23	N [illegible] E	[illegible]
L24	N [illegible] E	[illegible]
L25	N [illegible] E	[illegible]
L26	N [illegible] E	104.85'
L27	S [illegible] E	141.42'
L28	S [illegible] E	[illegible]
L29	S [illegible] E	[illegible]
L30	S [illegible] E	[illegible]
L31	S [illegible] W	[illegible]
L32	S [illegible] W	[illegible]
L33	S [illegible] W	[illegible]
L34	S [illegible] W	64.12'
L35	S [illegible] W	189.08'
L36	S [illegible] E	57.67'
L37	S [illegible] E	[illegible]
L38	S [illegible] E	[illegible]
L39	S [illegible] E	139.12'
L40	S [illegible] E	[illegible]
L41	S [illegible] W	171.23'
L42	N [illegible] W	[illegible]
L43	S [illegible] W	30.48'
L44	S [illegible] W	[illegible]
L45	S [illegible] W	[illegible]
L46	N [illegible] W	[illegible]
L47	S [illegible] W	45.17'
L48	N [illegible] W	[illegible]
L49	S [illegible] E	[illegible]
L50	S [illegible] W	[illegible]
L51	S [illegible] W	[illegible]
L52	N [illegible] W	[illegible]
L53	S [illegible] W	[illegible]
L54	N [illegible] W	[illegible]
L55	N [illegible] W	[illegible]
L56	N [illegible] W	[illegible]
L57	N [illegible] W	[illegible]
L58	N [illegible] W	[illegible]
L59	N [illegible] W	20.17'
L60	N [illegible] W	[illegible]

LEGEND:

IRON PIN (FOUND)	SIGN
Rebar/Drill Hole (To Be Set)	POST
	LIGHT POLE
MONUMENT (FOUND)	GUY ANCHOR
MANHOLE	UTILITY POLE
DRAINAGE MANHOLE	WATER GATE
SANITARY MANHOLE	WATER METER
ELEC. MANHOLE	GAS VALVE
TELE. MANHOLE	GAS METER
"C" CATCH BASIN	TRANSFORMER
"C-L" CATCH BASIN	ELEC. METER
DECIDUOUS TREES	MAIL BOX
EVERGREEN TREES	HAND HOLE
SHRUB/BUSH	BUTTON BOX
FLAG POLE	A.C. UNIT
TRAFFIC CONTROL BOX	TRAFFIC LIGHT POLE

BOUNDARY LINE
GUARD RAIL
UNDERGROUND PIPING (San.,Stm.)
U/G GAS LINE
U/G ELEC. LINE
WATER LINE
OVERHEAD UTILITIES
U/G TELE. LINE
CHAIN LINK FENCE
TREE LINE

martin
Surveying Associates, LLC
201 CHRISTIAN LANE BERLIN, CT 06037
860-832-8328 860-357-4604 (FAX)

REVISIONS:
1. WETLANDS VALIDATION BLOCK 8-14-2019

NYSDEC FRESHWATER WETLAND BOUNDARY VALIDATION

The freshwater wetland boundary as represented on these plans accurately depicts the limits of Freshwater Wetland ______________ as delineated by ______________ on ______________

DEC Staff ______________ ______________ Surveyor/Engineer ______________

Date Valid ______________ Expiration Date ______________ SEAL

Wetland boundary delineations as validated by the New York State Department of Environmental Conservation remain valid for five (5) years **unless** existing exempt activities, area hydrology, or land use practices change (e.g., agricultural to residential). **After five (5) years the boundary must be revalidated by DEC staff.** Revalidation may include a new delineation and survey of the wetland boundary.

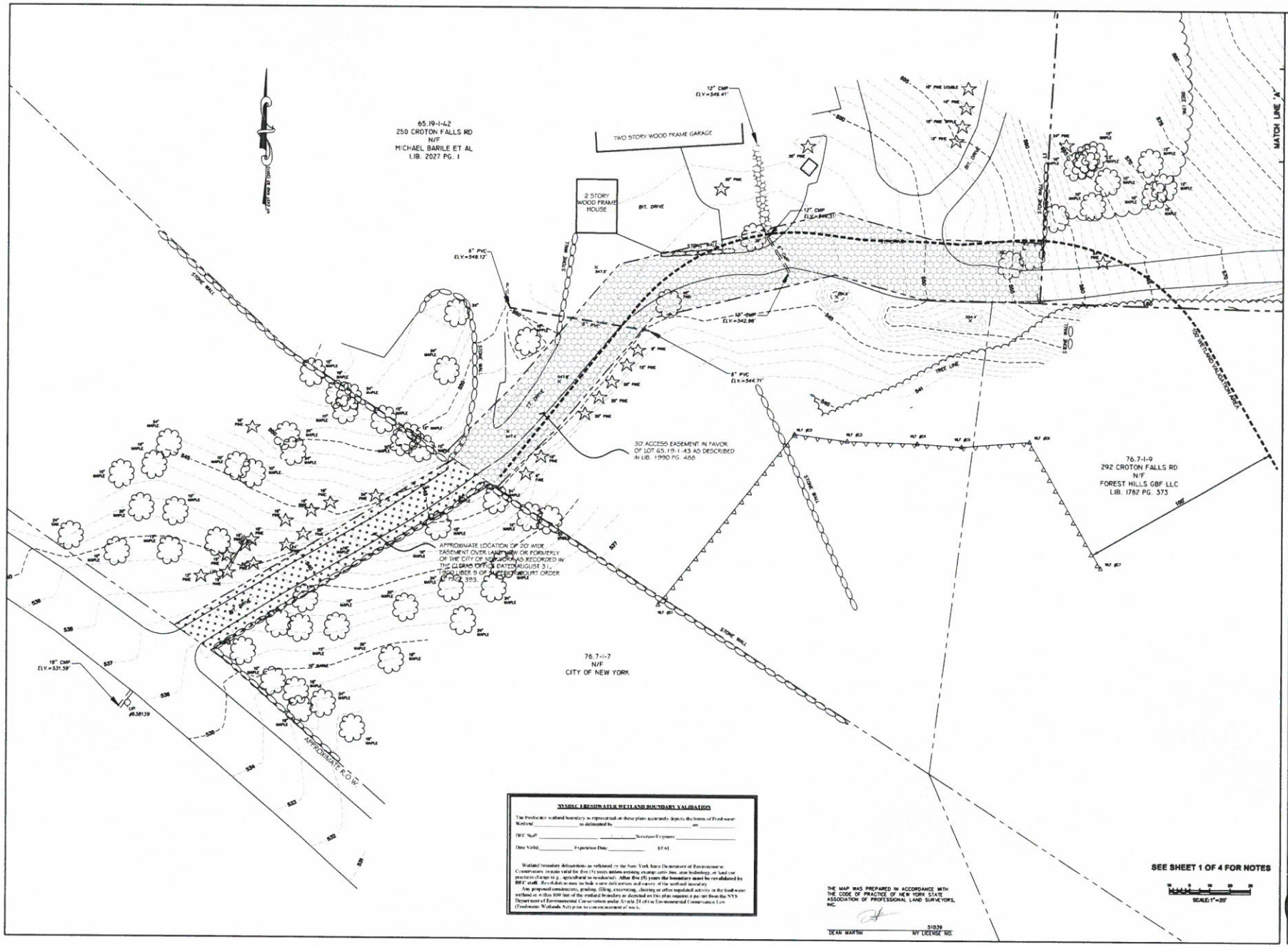
Any proposed construction, grading, filling, excavating, clearing or other regulated activity in the freshwater wetland or within 100 feet of the wetland boundary as depicted on this plan requires a permit from the NYS Department of Environmental Conservation under Article 24 of the Environmental Conservation Law (Freshwater Wetlands Act) prior to commencement of work.

THE MAP WAS PREPARED IN ACCORDANCE WITH THE CODE OF PRACTICE OF NEW YORK STATE ASSOCIATION OF PROFESSIONAL LAND SURVEYORS, INC.

DEAN MARTIN — 51039 NY LICENSE NO.

TOPOGRAPHIC SURVEY
LAND OF
RICHARD J. & ROSEMARIE DIEHL
TAX ID: 65.19-1-43
254 CROTON FALLS ROAD
MAHOPAC
PUTNAM COUNTY
NEW YORK

MSA PROJECT NO: 18-026
SCALE: 1"=60'
DATE: 6/5/2018
DRAWN BY: G.S.D.
CHECKED BY: D.G.M.
SHEET:
1 OF 4



NYSDEC FRESHWATER WETLAND BOUNDARY VALIDATION

The freshwater wetland boundary as represented on these plans accurately depicts the limits of Freshwater Wetlands _____ as delineated by _____ on _____

DEC Staff _____ Surveyor/Engineer _____

Date Valid _____ Expiration Date _____ SEAL

Wetland boundary delineations as validated by the New York State Department of Environmental Conservation remain valid for five (5) years unless existing drainage patterns, site hydrology, or land use practices change (e.g., agricultural to residential). After five (5) years the boundary must be revalidated by DEC staff. Revalidation may include a new delineation and survey of the wetland boundary.

Any proposed construction, grading, filling, excavating, clearing or other regulated activity in the freshwater wetland or within 100 feet of the wetland boundary as depicted on this plan requires a permit from the NYS Department of Environmental Conservation under Article 24 of the Environmental Conservation Law (Freshwater Wetlands Act) prior to commencement of work.

THE MAP WAS PREPARED IN ACCORDANCE WITH THE CODE OF PRACTICE OF NEW YORK STATE ASSOCIATION OF PROFESSIONAL LAND SURVEYORS, INC.

DEAN MARTIN — 51039 NY LICENSE NO.

LEGEND:

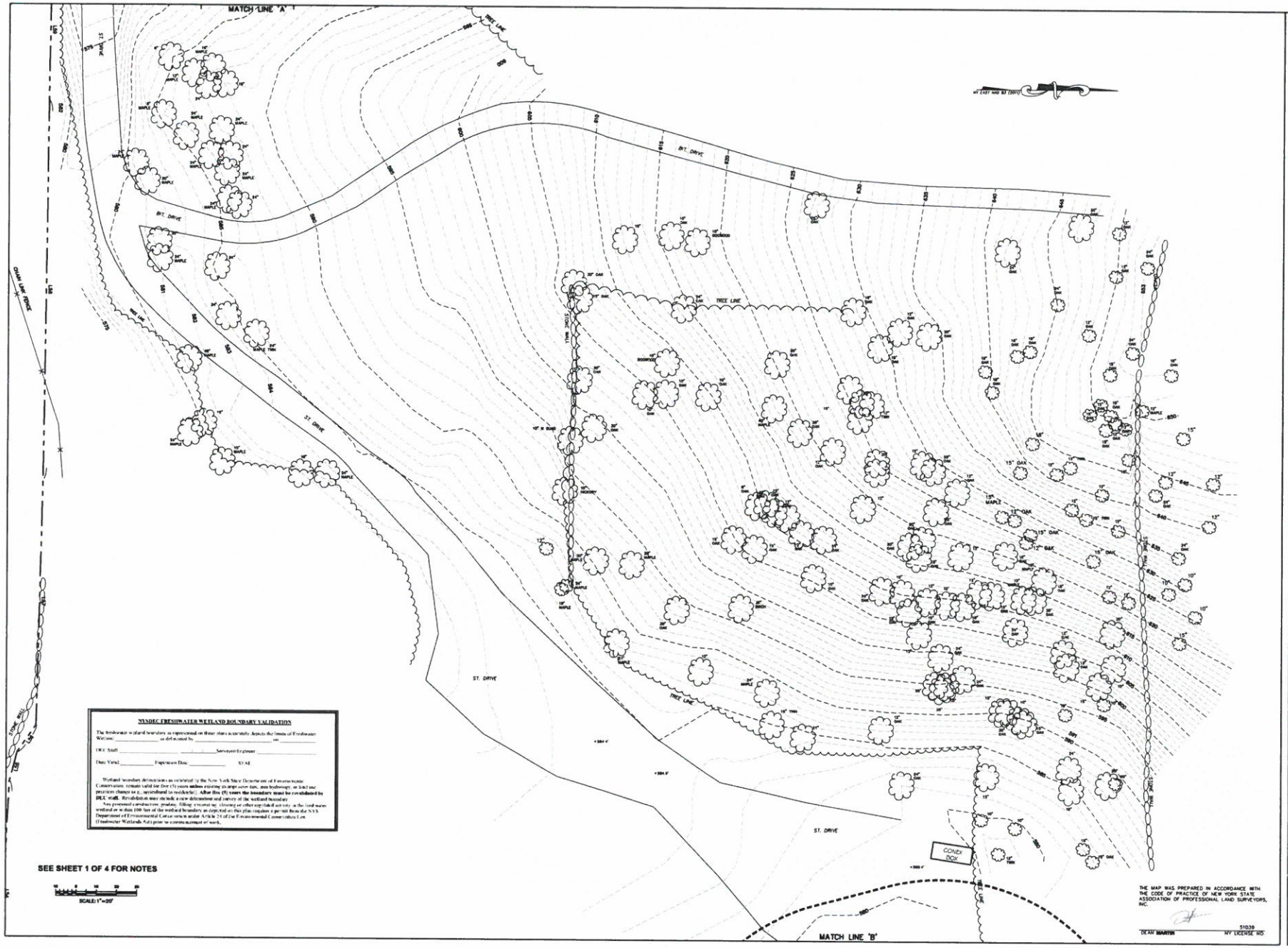
- IRON PIN (FOUND)
- Rebar/Drill Hole (To Be Set)
- MONUMENT (FOUND)
- MANHOLE
- DRAINAGE MANHOLE
- SANITARY MANHOLE
- ELEC. MANHOLE
- TELE. MANHOLE
- "C" CATCH BASIN
- "C-L" CATCH BASIN
- DECIDUOUS TREES
- EVERGREEN TREES
- SHRUB/BUSH
- FLAG POLE
- TRAFFIC CONTROL BOX
- SIGN
- POST
- LIGHT POLE
- GUY ANCHOR
- UTILITY POLE
- WATER GATE
- WATER METER
- GAS VALVE
- GAS METER
- TRANSFORMER
- ELEC. METER
- MAIL BOX
- HAND HOLE
- BUTTON BOX
- A.C. UNIT
- TRAFFIC LIGHT POLE
- BOUNDARY LINE
- GUARD RAIL
- UNDERGROUND PIPING (San.,Stm.)
- G — U/G GAS LINE
- E — U/G ELEC. LINE
- W — WATER LINE
- OVERHEAD UTILITIES
- T — U/G TELE. LINE
- CHAIN LINK FENCE
- TREE LINE

martin Surveying Associates, LLC
201 CHRISTIAN LANE BERLIN, CT 06037
860-832-9328 860-357-4604 (FAX)

REVISIONS:
1. WETLANDS VALIDATION BLOCK 8-14-2019

TOPOGRAPHIC SURVEY
LAND OF
RICHARD J. & ROSEMARIE DIEHL
TAX ID: 65.19-1-43
254 CROTON FALLS ROAD
MAHOPAC
PUTNAM COUNTY
NEW YORK

MSA PROJECT NO: 18-036	
SCALE: 1"=20'	DRAWN BY: D.S.D.
DATE: 8/6/2018	CHECKED BY: D.G.M.
STATE OF NEW YORK · DEAN G. MARTIN · 51039 · LICENSED LAND SURVEYOR	SHEET: 2 OF 4



NYSDEC FRESHWATER WETLAND BOUNDARY VALIDATION

The freshwater wetland boundary as represented on these maps accurately depicts the limits of Freshwater Wetland _____ as delineated by _____ on _____.

DEC Staff _____ Surveyor/Engineer _____

Date Valid _____ Expiration Date _____ STAMP

Wetland boundary delineations as validated by the New York State Department of Environmental Conservation remain valid for five (5) years unless existing site impacts (e.g., new hydrology, or land use practices change to e.g., agricultural to residential). After five (5) years the boundary must be revalidated by DEC staff. Revalidation may include a new delineation and survey of the wetland boundary.

Any proposed construction, grading, filling, excavation, clearing or other applicable activity, in the freshwater wetland or within 100 feet of the wetland boundary as depicted on this plan requires a permit from the NYS Department of Environmental Conservation under Article 24 of the Environmental Conservation Law (Freshwater Wetlands Act) prior to commencement of work.

SEE SHEET 1 OF 4 FOR NOTES

THE MAP WAS PREPARED IN ACCORDANCE WITH THE CODE OF PRACTICE OF NEW YORK STATE ASSOCIATION OF PROFESSIONAL LAND SURVEYORS, INC.

DEAN MARTIN — 51038 NY LICENSE NO.

LEGEND:

- IRON PIN (FOUND)
- Rebar/Drill Hole (To Be Set)
- MONUMENT (FOUND)
- MANHOLE
- DRAINAGE MANHOLE
- SANITARY MANHOLE
- ELEC. MANHOLE
- TELE. MANHOLE
- "C" CATCH BASIN
- "C-L" CATCH BASIN
- DECIDUOUS TREES
- EVERGREEN TREES
- SHRUB/BUSH
- FLAG POLE
- TRAFFIC CONTROL BOX
- SIGN
- POST
- LIGHT POLE
- GUY ANCHOR
- UTILITY POLE
- WATER GATE
- WATER METER
- GAS VALVE
- GAS METER
- TRANSFORMER
- ELEC. METER
- MAIL BOX
- HAND HOLE
- BUTTON BOX
- A.C. UNIT
- TRAFFIC LIGHT POLE
- BOUNDARY LINE
- GUARD RAIL
- UNDERGROUND PIPING (Son.,Stm.)
- G — U/G GAS LINE
- E — U/G ELEC. LINE
- W — WATER LINE
- OVERHEAD UTILITIES
- T — U/G TELE. LINE
- CHAIN LINK FENCE
- TREE LINE

martin Surveying Associates, LLC
201 CHRISTIAN LANE BERLIN, CT 06037
860-832-9328 860-357-4604 (FAX)

REVISIONS:
1. WETLANDS VALIDATION BLOCK 8-16-2018

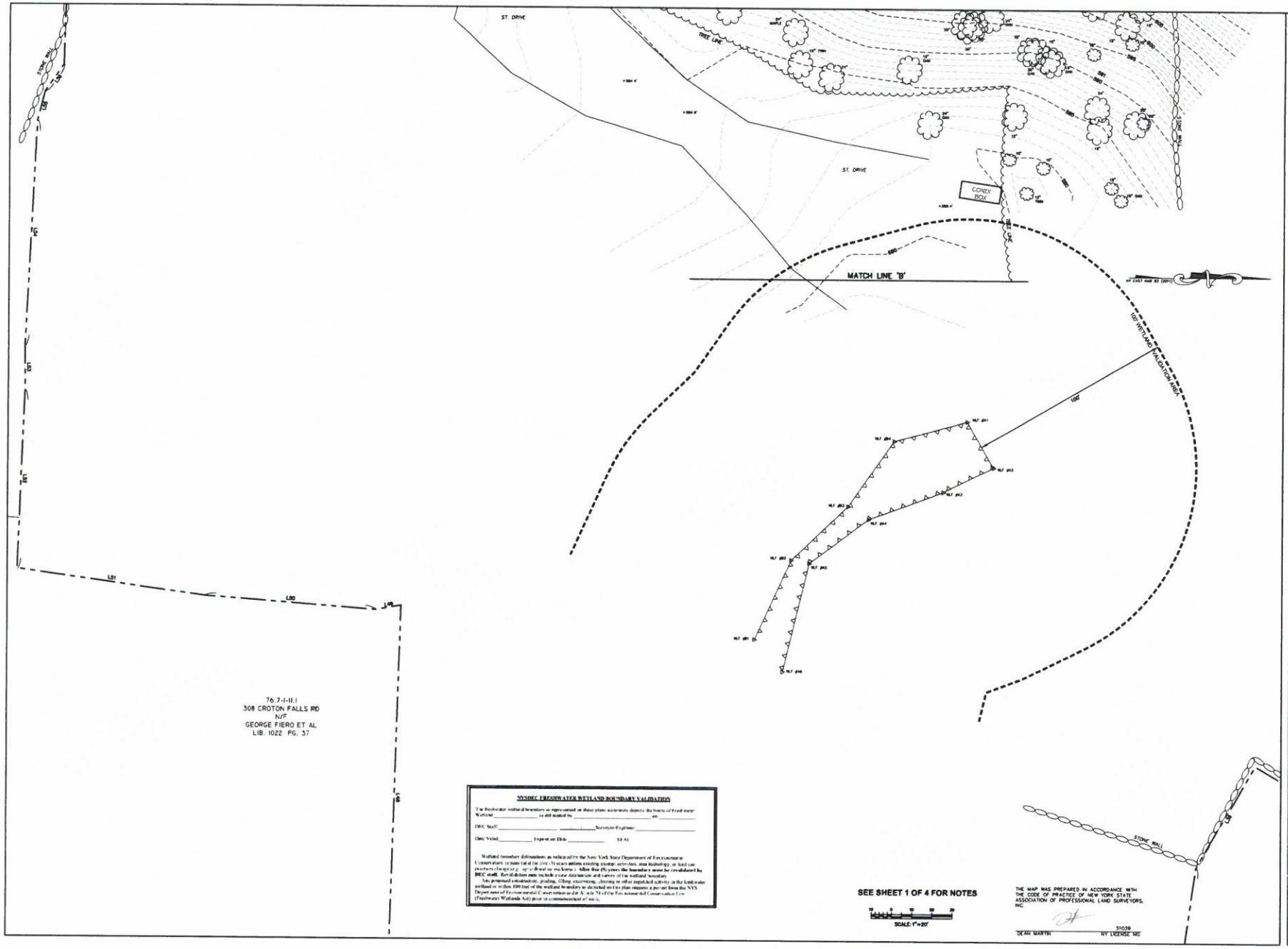
TOPOGRAPHIC SURVEY
LAND OF
RICHARD J. & ROSEMARIE DIEHL
TAX ID: 65.19-1-43
254 CROTON FALLS ROAD
MAHOPAC
PUTNAM COUNTY
NEW YORK

MSA PROJECT NO: 18-030

SCALE: 1"=20'	DRAWN BY: G.S.D.
DATE: 8/6/2018	CHECKED BY: D.G.M.

STATE OF NEW YORK — DEAN G. MARTIN — 51038 — LICENSED LAND SURVEYOR

SHEET: 3 OF 4



NYSDEC FRESHWATER WETLAND BOUNDARY VALIDATION

The freshwater wetland boundaries as represented on these plans accurately depicts the limits of land near Wetland _____ as delineated by _____ on _____

DEC Staff: _____ Surveyor/Engineer: _____

Date Valid: _____ Expires on Date: _____ SEAL

Wetland boundary delineations as validated by the New York State Department of Environmental Conservation remain valid for five (5) years unless existing storage, activities, area hydrology, or land use practices change (e.g. agricultural to residential). After five (5) years the boundary must be revalidated by DEC staff. Revalidation may include a new determination and survey of the wetland boundary.

Any proposed construction, grading, filling, excavating, clearing or other regulated activity in the landward wetland or within 100 feet of the wetland boundary as depicted on this plan requires a permit from the NYS Department of Environmental Conservation pursuant to Article 24 of the Environmental Conservation Law (Freshwater Wetlands Act) prior to commencement of work.

THE MAP WAS PREPARED IN ACCORDANCE WITH THE CODE OF PRACTICE OF NEW YORK STATE ASSOCIATION OF PROFESSIONAL LAND SURVEYORS, INC.

DEAN MARTIN — 51039 NY LICENSE NO.

LEGEND:

- IRON PIN (FOUND)
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- TRAFFIC CONTROL BOX
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- WATER GATE
- WATER METER
- GAS VALVE
- GAS METER
- TRANSFORMER
- ELEC. METER
- MAIL BOX
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- TRAFFIC LIGHT POLE
- BOUNDARY LINE
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- UNDERGROUND PIPING (San.,Stm.)
- U/G GAS LINE
- U/G ELEC. LINE
- WATER LINE
- OVERHEAD UTILITIES
- U/G TELE. LINE
- CHAIN LINK FENCE
- TREE LINE

martin Surveying Associates, LLC

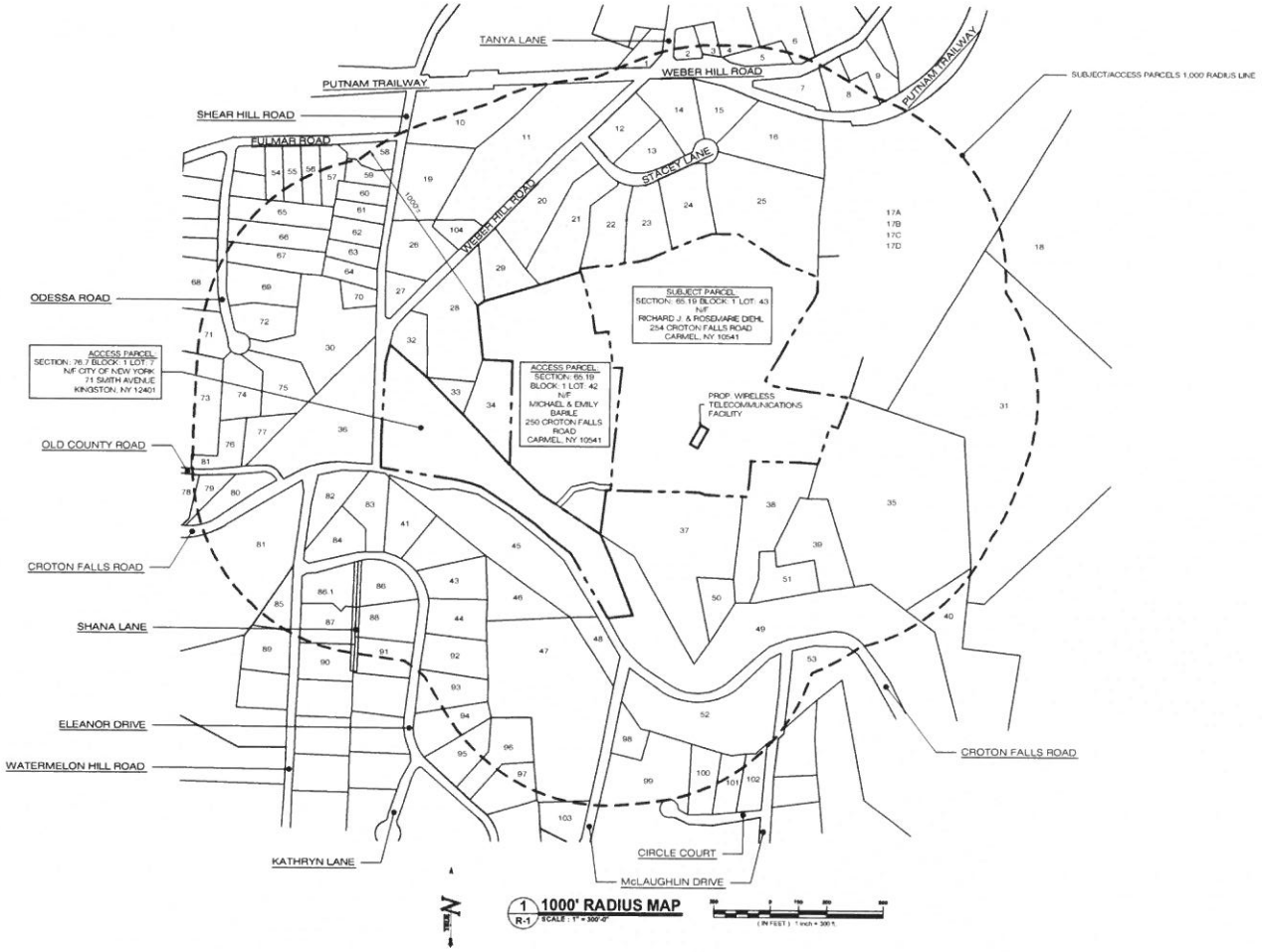
201 CHRISTIAN LANE BERLIN, CT 06037
860-832-8328 860-357-4804 (FAX)

REVISIONS:
1. WETLANDS VALIDATION BLOCK 8-14-2019

TOPOGRAPHIC SURVEY
LAND OF
RICHARD J. & ROSEMARIE DIEHL
TAX ID: 65.19-1-43
254 CROTON FALLS ROAD
MAHOPAC
PUTNAM COUNTY
NEW YORK

MSA PROJECT NO: 18-036

SCALE: 1"=20'	DRAWN BY: G.S.D.
DATE: 8/5/2018	CHECKED BY: D.G.M.
	SHEET: 4 OF 4



HOMELAND TOWERS, LLC
9 HARMONY STREET
2ND FLOOR
DANBURY, CT 06810
(203) 297-6345

verizon

4 CENTEROCK ROAD
WEST NYACK, NY 10994

APT ENGINEERING
3 SADDLEBROOK DRIVE
KILLINGWORTH, CT 06419
PHONE: (860)663-1867
FAX: (860)663-0035
WWW.ALLPOINTSTECH.COM

PERMITTING DOCUMENTS

NO	DATE	REVISION
0	07/05/18	FOR REVIEW: RCB
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6	05/07/19	TOWN COMMENTS: RCB
7	06/24/19	TOWN COMMENTS: RCB
8	07/12/19	CLIENT REVS: RCB
9	08/06/19	TOWN COMMENTS: RCB
10	08/13/19	ATTY COMMENTS: RCB
11	09/17/19	ECB COMMENTS: RCB

DESIGN PROFESSIONALS OF RECORD

PROF: SCOTT M. CHASSE P.E.
COMP: APT ENGINEERING
ADD: 3 SADDLEBROOK DRIVE
KILLINGWORTH, CT 06419

DEVELOPER: HOMELAND TOWERS, LLC
ADDRESS: 9 HARMONY STREET
2ND FLOOR
DANBURY, CT 06810

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.

HOMELAND TOWERS
LAKE CASSE

SITE ADDRESS: 254 CROTON FALLS ROAD
CARMEL, NY 10541

APT FILING NUMBER: NY283550

DATE: 07/05/18 DRAWN BY: CSH
CHECKED BY: RCB

SHEET TITLE:
1,000' RADIUS MAP

SHEET NUMBER:
R-1

STATE OF NEW YORK
SCOTT M. CHASSE
PROFESSIONAL ENGINEER

TOWN OF CARMEL
PUTNAM COUNTY
1,000' RADIUS PROPERTY OWNERS
(SEE DRAWING R-1 FOR PROPERTY LOCATIONS)

MAP ID	MAP	BLOCK	LOT	PROPERTY ADDRESS	OWNER NAME	OWNER ADDRESS
1	65.19	1	35	1 Tanya Lane, Mahopac, NY, 10541	Richard Reardon & Melissa Reardon	1 Tanya Lane, Mahopac NY, 10541
2	65.19	1	36	4 Tanya Lane, Mahopac, NY, 10541	Barton S. Rucker & Sarah F. Rucker	4 Tanya Lane, Mahopac NY, 10541
3	65.15	2	56	3 Richard Road, Mahopac, NY, 10541	Joseph Lincks & Lynda Lincks	3 Richard Road, Mahopac NY, 10541
4	65.15	2	54	7 Richard Road,Mahopac, NY, 10541	Stuart R. Wholl& Ranna A. Leal	7 RichardRoad, Mahopac NY, 10541
5	65.19	1	37	101 Weber Hill Road, Mahopac, NY, 10541	Lawerence J. Pistillo & Maria K. Pistillo	101 Weber Hill Road,Mahopac NY, 10541
6	65.16	1	20	111 Weber Hill Road, Mahopac, NY, 10541	Carol Lyons	111 Weber Hill Road, Mahopac NY, 10541
7	65.20	1	10	104 Weber Hill Road, Mahopac, NY, 10541	Anne Murphy & Kenneth Murphy	104 Weber Hill Road, Mahopac NY, 10541
8	65.20	1	8	118 Weber Hill Road, Mahopac, NY, 10541	Stephen S. Zagami & Catherine Zagami	118 Weber Hill Road, Mahopac NY, 10541
9	65.20	1	7	124 Weber Hill Road, Mahopac, NY, 10541	Joseph Sadovia	124 Weber Hill Road, Mahopac NY, 10541
10	65.19	1	79	76 Shear Hill Road, Mahopac, NY, 10541	Rolf Arne Svensson & Jill McMarrus	76 Shear Hill Road, Mahopac NY, 10541
11	65.19	1	34	31 Weber Hill Road, Mahopac, NY, 10541	Steven Sawicki & Kimberly Sawicki	31 Weber Hill Road, Mahopac NY, 10541
12	65.19	1	55	5 Stacey Lane,Mahopac, NY, 10541	Christopher Bellantoni & Susan Bellantoni	5 Stacey Lane, Mahopac NY, 10541
13	65.19	1	54	13 Stacey Lane, Mahopac, NY, 10541	Reid J. Nystrom & Karen A. Nystrom	13 Stacey Lane, Mahopac NY, 10541
14	65.19	1	53	80 Weber Hill Road,Mahopac, NY, 10541	Robert W Taylor	80 Weber Hill Road, Mahopac NY, 10541
15	65.19	1	52	23 Stacey Lane, Mahopac, NY, 10541	Natalie Eva Conciatori	23 Stacey Lane, Mahopac NY, 10541
16	65.19	1	51	24 Stacey Lane, Mahopac, NY, 10541	Derek Trzaskowski & Walerca Trzaskowski	24 Stacey Lane, Mahopac NY, 10541
17A	65.20	1	3	222 Weber Hill Road, Mahopac, NY, 10541	Jane H. Hauck	1516 10th Ave., Brooklyn, NY 11215
17B	65.20	1	3	222 Weber Hill Road, Mahopac, NY, 10541	Annie Hauck-Lawson, Trustee	167 SeeleyStreet., Brooklyn, NY 11218
17C	65.20	1	3	222 Weber Hill Road, Mahopac, NY, 10541	Dianne Hauck-Johnson, Trustee	1516 10th Ave., Brooklyn, NY 11215
17D	65.20	1	3	222 Weber Hill Road, Mahopac, NY, 10541	Robert A. Hauck, Trustee	801 6 Narrows Ave., Brooklyn, NY 11218
18	65.16	1	66	Weber Hill Road, Mahopac, NY, 10541	Paul R. Bruenn	P.O. Box 221, Carmel, NY 10512
19	65.19	1	80	62 Shear Hill Road, Mahopac, NY, 10541	Rolf Arne Svensson & Jill McMarrus	76 Shear Hill Road, Mahopac NY, 10541
20	65.19	1	46	4 Stacey Lane, Mahopac, NY, 10541	Debra Spano	4 Stacey Lane, Mahopac, NY, 10541
21	65.19	1	45	8 Stacey Lane, Mahopac, NY, 10541	Joseph Domingo & Carmen Domingo	8 Stacy Lane, Mahopac, NY, 10541
22	65.19	1	47	10 Stacey Lane, Mahopac, NY, 10541	James A. Eleftherion & Nancy Eleftherion	10 Stacey Lane, Mahopac, NY, 10541
23	65.19	1	48	14 Stacey Lane, Mahopac, NY, 10541	Ron Levine & Karyn Levine	14 Stacey Lane, Mahopac, NY, 10541
24	65.19	1	49	18 Stacey Lane, Mahopac, NY, 10541	Carmelina Zimbalatti	18 Stacey Lane, Mahopac, NY, 10541
25	65.19	1	50	22 Stacey Lane, Mahopac, NY, 10541	Scott Hirschmugl & Cindy Hirschmugl	22 Stacey Lane, Mahopac, NY, 10541
26	65.19	1	33	23 Weber Hill Road, Mahopac, NY, 10541	Gerarco Boriello	146 Oscawana Lake Road, Putnam Valley, NY 10579
27	65.19	1	31	1 Weber Hill Road, Mahopac, NY, 10541	Erik L. Rogers	1 Weber Hill Road, Mahopac, NY, 10541
28	65.19	1	39	12 Weber Hill Road, Mahopac, NY, 10541	Emeline M. Swanson & Thomas J. Donovan	12 Weber Hill Road, Mahopac, NY, 10541
29	65.19	1	44	30 Weber Hill Road, Mahopac, NY, 10541	Michael A. Porcelli	P.O. Box 789, Mahopac, NY 10541
30	65.19	1	15	Odessa Road , Mahopac, NY, 10541	5504 Me LLC	1 Brianna Lane, Yorktown Heights, NY 10598
31	65.20	1	15	26 Gail Court, Carmel, NY, 10512	Preston M. Bruenn & Kathleen E. Bruenn	26 Gail Court, Carmel, NY, 10512
32	65.19	1	40	2 Weber Hill Road, Carmel, NY 10512	Richard Simon & Jennifer Simon	2 Weber Hill Road, Carmel, NY 10512
33	65.19	1	41	14-18 Shear Hill Road, Mahopac, NY, 10541	Patrick Kelly	14 Shear Hill Road, Mahopac, NY, 10541
34	76.7	1	8	238 Croton Falls Road, Mahopac, NY, 10541	Croton Falls Road Holding LLC	P.O. Box 977, Mahopac, NY 10541
35	76.8	1	3	338 Croton Falls Road, Mahopac, NY, 10541	Preston M. Bruenn & Kathleen E. Bruenn	26 Gail Court, Carmel, NY, 10512
36	76.7	1	6	Croton Falls Road, Mahopac, NY, 10541	City Of New York	71 Smith Ave, Kingston NY 12041
37	76.7	1	9	292 Croton Falls Road, Mahopac, NY, 10541	Forest Hills GBF LLC	308 Croton Falls Road, Mahopac, NY, 10541
38	76.7	1	11.1	308 Croton Falls Road, Mahopac, NY, 10541	George Piero & Gail Piero	308 Croton Falls Road, Mahopac, NY, 10541
39	76.8	1	2	334 Croton Falls Road, Mahopac, NY, 10541	Ceaser Ambrose & Ambrose Trust	334 Croton Falls Road, Mahopac, NY, 10541
40	76.8	1	5	384 Croton Falls Road, Mahopac, NY, 10541	Robert Vitiello & Jennifer Vitello	384 Croton Falls Road, Mahopac, NY, 10541
41	76.7	1	23	18 Eleanor Drive, Mahopac, NY, 10541	Thomas F. Mondo & Linda Mondo	18 Eleanor Drive, Mahopac, NY, 10541
42	76.7	1	24	22 Eleanor Drive, Mahopac, NY, 10541	The Hollop Family Trust	22 Eleanor Drive, Mahopac, NY, 10541
43	76.7	1	25	26 Eleanor Drive, Mahopac, NY, 10541	Michael B. Ward & Suzanne L. Ward	26 Eleanor Drive, Mahopac, NY, 10541
44	76.7	1	26	32 Eleanor Drive, Mahopac, NY, 10541	Charles Nicosia	32 Eleanor Drive, Mahopac, NY, 10541
45	76.7	1	18	Croton Falls Road, Mahopac, NY, 10541	City Of New York	71 Smith Ave, Kingston NY 12041
46	76.7	1	19	261 Croton Falls Road, Mahopac, NY, 10541	Kenneth J. Kropelnicki & Jean Begernan	261 Croton Falls Road, Mahopac, NY, 10541
47	76.7	1	17	17 Mclaughlin Drive, Mahopac, NY, 10541	Stuart Staley & Laura Staley	17 Mclaughlin Drive, Mahopac, NY, 10541
48	76.7	1	15	Croton Falls Road, Mahopac, NY, 10541	City Of New York	71 Smith Ave, Kingston NY 12041
49	76.8	1	4	N. Croton Falls Road, Mahopac, NY, 10541	City Of New York	71 Smith Ave, Kingston NY 12041
50	76.7	1	10	301 Croton Falls Road, Mahopac, NY, 10541	Bryce M. Fiero	308 Croton Falls Road, Mahopac, NY, 10541
51	76.7	1	11.2	310 Croton Falls Road, Mahopac, NY, 10541	William Minnich & Marlyse Minnich	310 Croton Falls Road, Mahopac, NY, 10541
52	76.7	1	15	Croton Falls Road, Mahopac, NY, 10541	City Of New York	71 Smith Ave, Kingston NY 12041
53	76.12	1	18	22 Sandy Street, Mahopac, NY, 10541	City Of New York	71 Smith Ave, Kingston NY 12041
54	65.19	1	13	29 Fulmar Road, Mahopac, NY, 10541	Carmine Della -Mora & Christi Casamento65.19	29 Fulmar Road, Mahopac, NY, 10541
55	65.19	1	12	25 Fulmar Road, Mahopac, NY, 10541	Leonardo Altobelli & Pina Altobelli	25 Fulmar Road, Mahopac, NY, 10541
56	65.19	1	11	21 Fulmar Road, Mahopac, NY, 10541	William P. Witt & Debra Witt	21 Fulmar Road, Mahopac, NY, 10541
57	65.19	1	10	17 Fulmar Road, Mahopac, NY, 10541	Sayed A. El Shakey & Aida El Shakey	75 Cranbury Neck Road, Cranbury, NJ 08512
58	65.19	1	9	17 Fulmar Road, Mahopac, NY, 10541	Alexander Pagani & Ibelize Roman	504 West 172nd Street Unit 3d, New York, NY 10032
59	65.19	1	8	59 Shear Hill Road, Mahopac, NY, 10541	Frank P. Zoombok & Sandra Zoombok	59 Shear Hill Road, Mahopac, NY, 10541
60	65.19	1	7	55 Shear Hill Road, Mahopac, NY, 10541	Gerald Didomidio & Ann Marie Didomizio	55 Shear Hill Road, Mahopac, NY, 10541
61	65.19	1	6	51 Shear Hill Road, Mahopac, NY, 10541	Daniel R. Impieri & Rosemary Impieri	51 Shear Hill Road, Mahopac, NY, 10541
62	65.19	1	5	51 Shear Hill Road, Mahopac, NY, 10541	Kenneth J. Barker & Johanne Morin	51 Shear Hill Road, Mahopac, NY, 10541
63	65.19	1	4	41 Shear Hill Road, Mahopac, NY, 10541	Jamie S. Correia & Maria A. Correia	41 Shear Hill Road, Mahopac, NY, 10541
64	65.19	1	3	37 Shear Hill Road, Mahopac, NY, 10541	George J. Harting & Angela M. Harting	37 Shear Hill Road, Mahopac, NY, 10541
65	65.19	1	16	12 Odessa Road, Mahopac, NY 10541	Nicholas Derosa & Saveria Derosa	12 Odessa Road, Mahopac, NY 10541
66	65.19	1	17	18 Odessa Road, Mahopac, NY 10541	Vincent S Barcia	18 Odessa Road, Mahopac, NY 10541
67	65.19	1	18	22 Odessa Road, Mahopac, NY 10541	Joseph J. Lovecce & Kjersti G Lovece	22 Odessa Road, Mahopac, NY 10541
68	65.19	1	74	29 Odessa Road, Mahopac, NY 10541	Michael Sahagian & Gina Sahagian	29 Odessa Road, Mahopac, NY 10541
69	65.19	1	1	26 Odessa Road, Mahopac, NY 10541	Dennis M. Daria & Suzanne V. Daria	26 Odessa Road, Mahopac, NY 10541
70	65.19	1	2	35 Shear Hill Road, Mahopac, NY, 10541	Luis R. Vega	35 Shear Hill Road, Mahopac, NY, 10541
71	65.18	1	73	41 Odessa Road, Mahopac, NY 10541	Salvador Padron & Gulit Cann	41 Odessa Road, Mahopac, NY 10541
72	65.19	1	1.2	40 Odessa Road, Mahopac, NY 10541	Ralph K Kolb & Beth M. Kolb	40 Odessa Road, Mahopac, NY 10541
73	76.6	1	10	19 20 Old Country Road, Mahopac, NY 10541	Susan McCollum	P.O. Box 261, Mahopac, NY 10541
74	65.19	1	1.3	47 Odessa Road, Mahopac, NY 10541	Adam Desetnik & Felicia Desetnik	47 Odessa Road, Mahopac, NY 10541
75	65.19	1	1.4	50 Odessa Road, Mahopac, NY 10541	William S. McClure & Lolita McClure	50 Odessa Road, Mahopac, NY 10541
76	76.7	1	4	12 Old Country Road, Mahopac, NY 10541	David Hopper & Jean Hopper	12 Old Country Road, Mahopac, NY 10541
77	76.7	1	5	8 Old Country Road, Mahopac, NY 10541	Helen L. Hastings	8 Old Country Road, Mahopac, NY 10541
78	76.6	1	8	166 Croton Falls Road, Mahopac, NY, 10541	Jill F. Branch & Charles S. Branch	166 Croton Falls Road, Mahopac, NY, 10541
79	76.6	1	9	13 Old Country Road, Mahopac, NY 10541	Andrew L. Peterson & Martina Peterson	13 Old Country Road, Mahopac, NY 10541
80	76.6	1	11	18 Old Country Road, Mahopac, NY 10541	Susan E. McCollum	P.O. Box 261 Mahopac, NY 10541
81	76.6	1	14	181 Croton Falls Road, Mahopac, NY, 10541	City Of New York	71 Smith Ave, Kingston NY 12041
82	76.7	1	20	Croton Falls Road, Mahopac, NY, 10541	City Of New York	71 Smith Ave, Kingston NY 12041
83	76.7	1	22	14 Eleanor Drive, Mahopac, NY, 10541	Sergio Conde & Zoraida Conde	14 Eleanor Drive, Mahopac, NY, 10541
84	76.7	1	21	2 Eleanor Drive, Mahopac, NY, 10541	Cathleen L. Curow & Douglas R. Maier	2 Eleanor Drive, Mahopac, NY, 10541
85	76.7	1	3	283 Watermelon Hill Road, Mahopac, NY, 10541	Charles Kalpasis & Eileen V. Kalpasis	283 Watermelon Hill Road, Mahopac, NY, 10541
86	76.7	1	37	19 Eleanor Drive, Mahopac, NY, 10541	Karl A. Thimm & Janis L. Thimm	19 Eleanor Drive, Mahopac, NY, 10541
86.1	76.7	1	38	4 Shana Lane, Mahopac, NY, 10541	Vincenzo & Carmela Siconolfi	4 Shana Lane, Mahopac, NY, 10541
87	76.7	1	39	14 Shana Lane, Mahopac, NY, 10541	Lawrence R. Levine & Olga Y. Levine	14 Shana Lane, Mahopac, NY, 10541
88	76.7	1	36	33 Eleanor Drive, Mahopac, NY, 10541	Stella Doupis	33 Eleanor Drive, Mahopac, NY, 10541
89	76.7	1	2	273 Watermelon Hill Road, Mahopac, NY, 10541	Manfred Gigler & Marina Gigler	273 Watermelon Hill Road, Mahopac, NY, 10541
90	76.7	1	40	22 Shana Lane, Mahopac, NY, 10541	Frank Jannello & Maria Jannello	22 Shana Lane, Mahopac, NY, 10541
91	76.1	1	35	41 Eleanor Drive, Mahopac, NY, 10541	Kathleen E. Racz & Elizabeth Garofi	41 Eleanor Drive, Mahopac, NY, 10541
92	76.7	1	27	40 Eleanor Drive, Mahopac, NY, 10541	Robert A. Mayo & Rosemarie Mayo	40 Eleanor Drive, Mahopac, NY, 10541
93	76.1	1	28	50 Eleanor Drive, Mahopac, NY, 10541	John R. Kraker & Linda M. Kraker	50 Eleanor Drive, Mahopac, NY, 10541
94	76.7	1	29	60 Eleanor Drive, Mahopac, NY, 10541	Philip H. Likes	325 Oscawana Lake Road, Putnam Valley, NY 10579
95	76.7	1	30	72 Eleanor Drive, Mahopac, NY, 10541	Jorge Prandi & Cristina Prandi	72 Eleanor Drive, Mahopac, NY, 10541
96	76.7	1	31	76 Eleanor Drive, Mahopac, NY, 10541	Robert J. Buckley & Dahlia P. Buckley	76 Eleanor Drive, Mahopac, NY, 10541
97	76.11	1	21	82 Eleanor Drive, Mahopac, NY, 10541	Thomas J. Deacon Jr. & Kristin Deacon	82 Eleanor Drive, Mahopac, NY, 10541
98	76.7	1	16	18 Mclaughlin Drive, Mahopac, NY, 10541	Charlotte De Salvo	18 Mclaughlin Drive, Mahopac, NY, 10541
99	76.11	1	67	50 Mclaughlin Drive, Mahopac, NY, 10541	Charlotte De Salvo	18 Mclaughlin Drive, Mahopac, NY, 10541
100	76.7	1	12	110 Circle Court, Mahopac, NY, 10541	Eric C. Semenetz & Marianne C. Semenetz	110 Circle Court, Mahopac, NY, 10541
101	76.7	1	13	106 Circle Court, Mahopac, NY, 10541	MFGLO Investors, L.P.	55 Beattie Place - Suite 1, Greenville Sc 29601
102	76.7	1	14	110 Mclaughlin Drive, Mahopac, NY, 10541	Sean Freytes	110 Mclaughlin Drive, Mahopac, NY, 10541
103	76.11	1	66	39 Mclaughlin Drive, Mahopac, NY, 10541	Ryan Morin & Lincsay Buttenschon	39 Mclaughlin Drive, Mahopac, NY, 10541
104	65.19	1	33	73 Weber Hill Road, Mahopac, NY, 10541	Gerardo Boriello	146 Oscawana Lake Road, Putnam Valley, NY 10579

HOMELAND TOWERS, LLC
9 HARMONY STREET
2nd FLOOR
DANBURY, CT 06810
(203) 297-6345

verizon
4 CENTEROCK ROAD
WEST NYACK, NY 10994

APT ENGINEERING
3 BADDLEBROOK DRIVE PHONE: (860) 663-1697
KILLINGWORTH, CT 06419 FAX: (860) 663-0035
WWW.ALLPOINTSTECH.COM

PERMITTING DOCUMENTS

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7	06/24/19	TOWN COMMENTS: RCB
8	07/12/19	CLIENT REVS: RCB
9	08/06/19	TOWN COMMENTS: RCB
10	08/13/19	ATTY COMMENTS: RCB
11	09/17/19	ECB COMMENTS: RCB

DESIGN PROFESSIONALS OF RECORD

PROF: SCOTT M. CHASSE P.E.
COMP: APT ENGINEERING
ADD: 3 BADDLEBROOK DRIVE
KILLINGWORTH, CT 06419

DEVELOPER: HOMELAND TOWERS, LLC
ADDRESS: 9 HARMONY STREET
2ND FLOOR
DANBURY, CT 06810

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.

HOMELAND TOWERS
LAKE CASSE

SITE ADDRESS: 254 CROTON FALLS ROAD
CARMEL, NY 10541

APT FILING NUMBER: NY283350

DATE: 07/05/18 | DRAWN BY: CSH
CHECKED BY: RCB

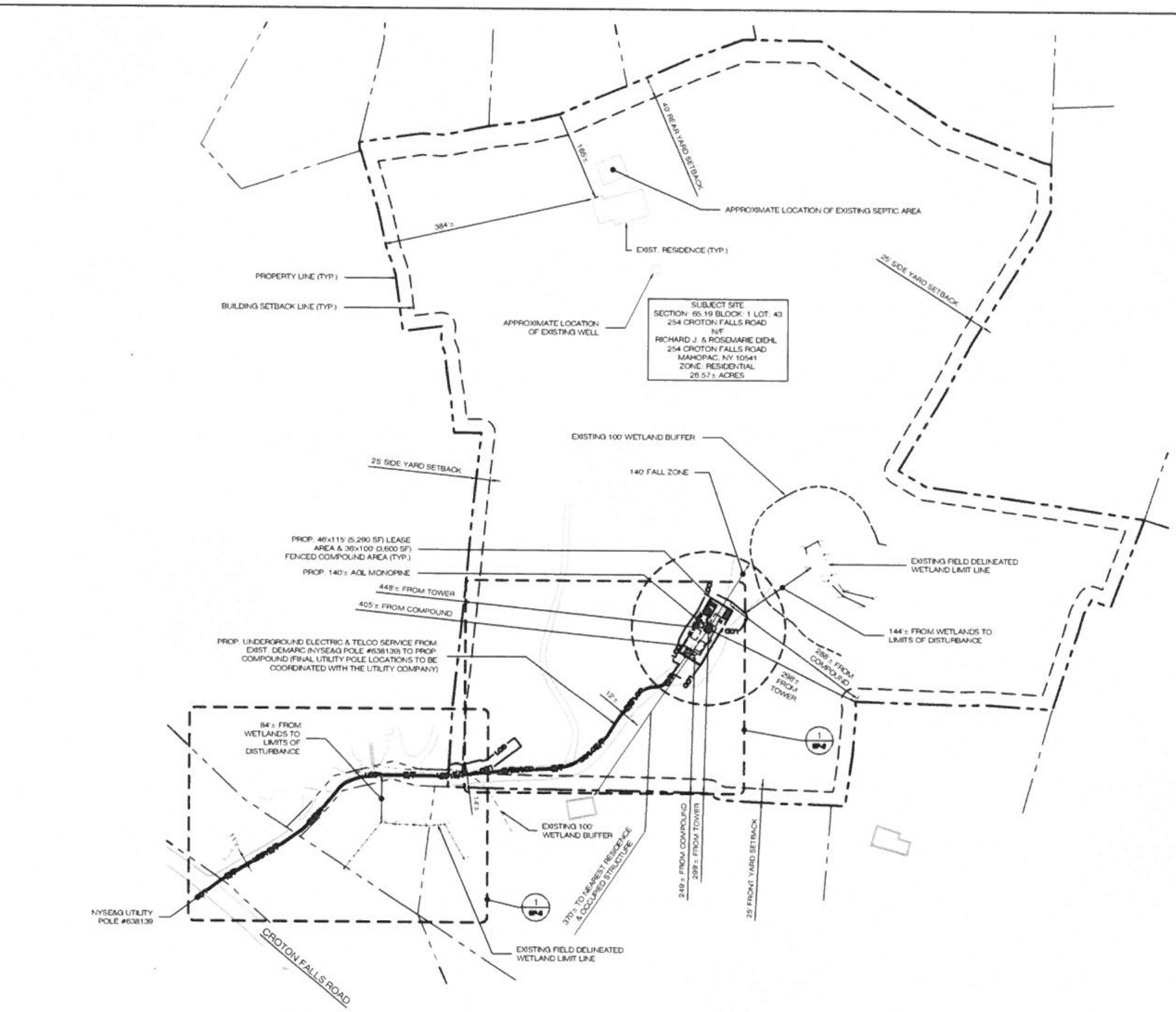
SHEET TITLE:

1,000' RADIUS PROPERTY OWNERS

SHEET NUMBER:

R-2

STATE OF NEW YORK
SCOTT M. CHASSE
PROFESSIONAL ENGINEER



NOTE: THE EXISTING TREE CANOPY HEIGHT IS APPROXIMATELY 70 FEET ABOVE EXISTING GRADE PER A FIELD SURVEY CONDUCTED ON NOVEMBER 8, 2018.

TRUE N

1 SITE PLAN (SP-1)
SCALE : 1" = 100'-0"

(IN FEET) 1 inch = 100 ft.

ZONING TABLE: CARMEL ZONING DISTRICT RESIDENTIAL

ITEM:	REQUIRED	EXISTING	PROPOSED
MAX. HEIGHT (FT)	35	30±	NC
MIN. LOT AREA (SF)	120,000	1,320,790±	NC
MIN. LOT WIDTH (FT)	200	783±	NC
MIN. LOT DEPTH (FT)	200	1,372±	NC
MIN. FRONT YARD SETBACK (FT)	40	NA	NC
MIN. SIDE YARD SETBACK (FT)	25	384±	NC
MIN. REAR YARD SETBACK (FT)	40	165±	NC
MAX. BUILDING COVERAGE	15%	0.3%	NC
TOWER HEIGHT (FT)	75	N/A	140±*
TOWER SETBACK TO RESIDENCE (FT)**	280	N/A	370±

NA = NOT APPLICABLE NC = NO CHANGE
* WAIVER REQUESTED UNDER SEC. 156-62(O)(4)
** IN RESIDENTIAL ZONES, TOWER SETBACK TO ALL RESIDENTIAL BUILDINGS ON ABUTTING LOTS MUST BE 2 TIMES THE HEIGHT OF PROPOSED TOWER.

LEGEND

- SUBJECT PARCEL PROPERTY LINE
- ADJACENT PROPERTY LINE/R.O.W. LINE
- LOD — LIMIT OF DISTURBANCE LINE

MAP REFERENCES:
1. TOPOGRAPHIC SURVEY, LAND OF RICHARD & ROSEMARIE DIEHL, TAX ID: 65.19-1-43, 254 CROTON FALLS ROAD, MAHOPAC, PUTNAM COUNTY, NEW YORK' SHEETS 1-3, PREPARED BY MARTIN SURVEYING ASSOCIATES, LLC, 201 CHRISTIAN LANE, BERLIN, CT 06037, DATED 06/05/2018.

HOMELAND TOWERS, LLC
9 HARMONY STREET
2nd FLOOR
DANBURY, CT 06810
(203) 297-6345

verizon
4 CENTEROCK ROAD
WEST NYACK, NY 10994

APT ENGINEERING
3 SADDLEBROOK DRIVE
KILLINGWORTH, CT 06419
PHONE: (860)-663-1697
FAX: (860)-663-0935
WWW.ALLPOINTSTECH.COM

PERMITTING DOCUMENTS

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11	09/17/19	ECB COMMENTS: RCB

DESIGN PROFESSIONALS OF RECORD

PROF: SCOTT M. CHASSE P.E.
COMP: APT ENGINEERING
ADD: 3 SADDLEBROOK DRIVE
KILLINGWORTH, CT 06419

DEVELOPER: HOMELAND TOWERS, LLC
ADDRESS: 9 HARMONY STREET
2ND FLOOR
DANBURY, CT 06810

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HOMELAND TOWERS
LAKE CASSE

SITE ADDRESS: 254 CROTON FALLS ROAD, CARMEL, NY 10541

APT FILING NUMBER: NY283550

DATE: 07/05/18 | DRAWN BY: CSH | CHECKED BY: RCB

SHEET TITLE: **SITE PLAN**

SHEET NUMBER: **SP-1**

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

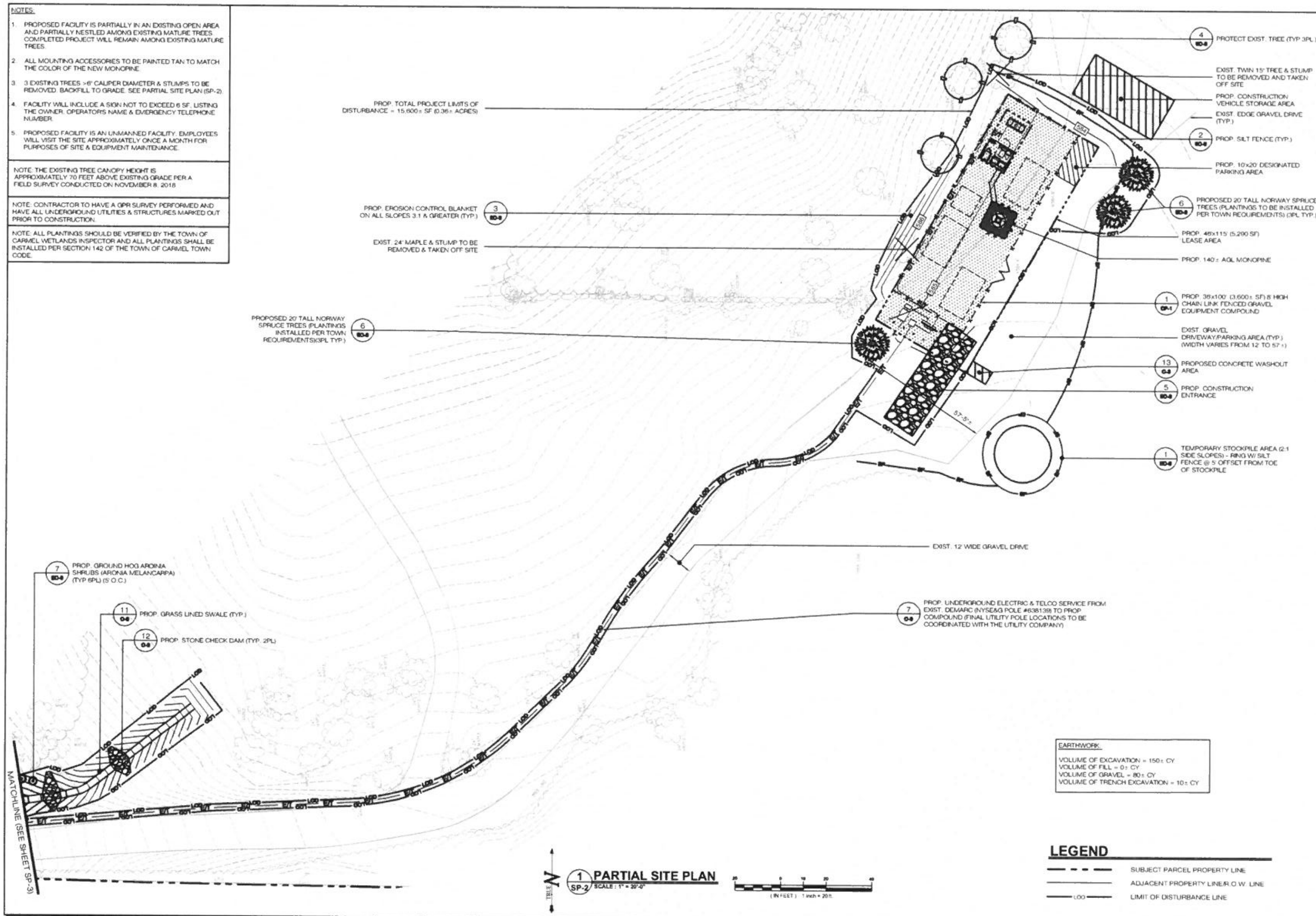
NOTES:

1. PROPOSED FACILITY IS PARTIALLY IN AN EXISTING OPEN AREA AND PARTIALLY NESTLED AMONG EXISTING MATURE TREES. COMPLETED PROJECT WILL REMAIN AMONG EXISTING MATURE TREES.
2. ALL MOUNTING ACCESSORIES TO BE PAINTED TAN TO MATCH THE COLOR OF THE NEW MONOPINE.
3. 3 EXISTING TREES >6" CALIPER DIAMETER & STUMPS TO BE REMOVED. BACKFILL TO GRADE. SEE PARTIAL SITE PLAN (SP-2).
4. FACILITY WILL INCLUDE A SIGN NOT TO EXCEED 6 SF, LISTING THE OWNER, OPERATOR'S NAME & EMERGENCY TELEPHONE NUMBER.
5. PROPOSED FACILITY IS AN UNMANNED FACILITY. EMPLOYEES WILL VISIT THE SITE APPROXIMATELY ONCE A MONTH FOR PURPOSES OF SITE & EQUIPMENT MAINTENANCE.

NOTE: THE EXISTING TREE CANOPY HEIGHT IS APPROXIMATELY 70 FEET ABOVE EXISTING GRADE PER A FIELD SURVEY CONDUCTED ON NOVEMBER 8, 2018

NOTE: CONTRACTOR TO HAVE A GPR SURVEY PERFORMED AND HAVE ALL UNDERGROUND UTILITIES & STRUCTURES MARKED OUT PRIOR TO CONSTRUCTION.

NOTE: ALL PLANTINGS SHOULD BE VERIFIED BY THE TOWN OF CARMEL WETLANDS INSPECTOR AND ALL PLANTINGS SHALL BE INSTALLED PER SECTION 142 OF THE TOWN OF CARMEL TOWN CODE.



EARTHWORK:

VOLUME OF EXCAVATION = 150± CY
VOLUME OF FILL = 0± CY
VOLUME OF GRAVEL = 80± CY
VOLUME OF TRENCH EXCAVATION = 10± CY

LEGEND

— · — · —	SUBJECT PARCEL PROPERTY LINE
————	ADJACENT PROPERTY LINE/R.O.W. LINE
— LOD —	LIMIT OF DISTURBANCE LINE

TRUE N

1 SP-2 PARTIAL SITE PLAN
SCALE: 1" = 20'-0"

(IN FEET) 1 inch = 20 ft.

HOMELAND TOWERS, LLC
9 HARMONY STREET
2nd FLOOR
DANBURY, CT 06810
(203) 297-6345

verizon
4 CENTEROCK ROAD
WEST NYACK, NY 10994

APT ENGINEERING
3 SADDLEBROOK DRIVE, KILLINGWORTH, CT 06419
PHONE: (860)-663-1697
FAX: (860)-663-0935
WWW.ALLPOINTSTECH.COM

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DESIGN PROFESSIONALS OF RECORD

PROF: SCOTT M. CHASSE P.E.
COMP: APT ENGINEERING
ADD: 3 SADDLEBROOK DRIVE
KILLINGWORTH, CT 06419

DEVELOPER: HOMELAND TOWERS, LLC
ADDRESS: 9 HARMONY STREET
2ND FLOOR
DANBURY, CT 06810

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HOMELAND TOWERS
LAKE CASSE

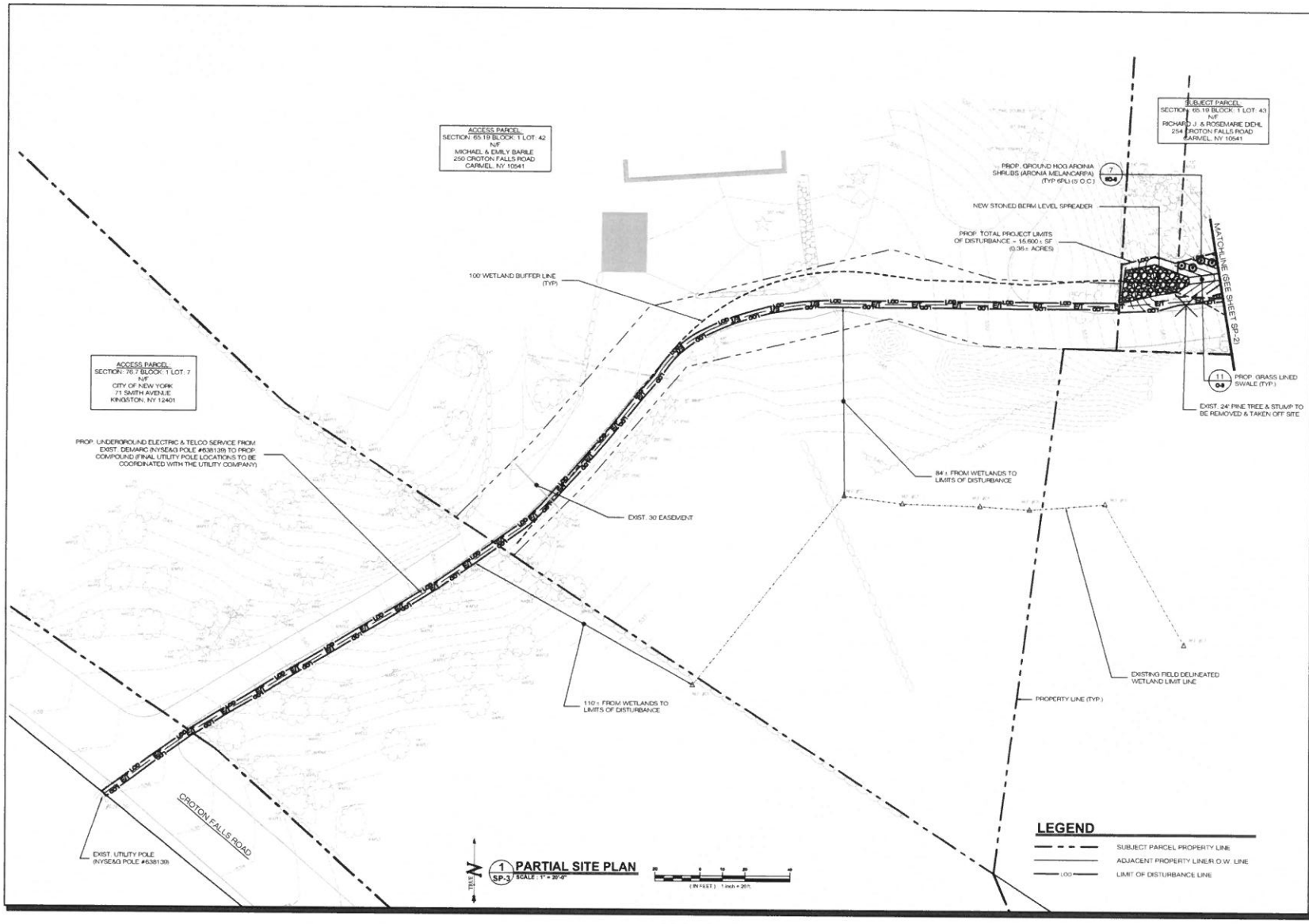
SITE ADDRESS: 254 CROTON FALLS ROAD
CARMEL, NY 10541

APT FILING NUMBER: NY283550

DATE: 07/05/18 | DRAWN BY: CSH
CHECKED BY: RCB

SHEET TITLE:
PARTIAL SITE PLAN

SHEET NUMBER:
SP-2



1 SP-3 **PARTIAL SITE PLAN**
SCALE: 1" = 20'-0"

HOMELAND TOWERS, LLC
9 HARMONY STREET
2nd FLOOR
DANBURY, CT 06810
(203) 297-6345

verizon
4 CENTEROCK ROAD
WEST NYACK, NY 10994

APT ENGINEERING
3 SADDLEBROOK DRIVE
KILLINGWORTH, CT 06419
PHONE: (860)-663-1897
FAX: (860)-663-0935
WWW.ALLPOINTSTECH.COM

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10	08/13/19	ATTY COMMENTS: RCB
11	08/17/19	ECB COMMENTS: RCB

DESIGN PROFESSIONALS OF RECORD

PROF: SCOTT M. CHASSE P.E.
COMP: APT ENGINEERING
ADD: 3 SADDLEBROOK DRIVE
KILLINGWORTH, CT 06419

DEVELOPER: HOMELAND TOWERS, LLC
ADDRESS: 9 HARMONY STREET
2ND FLOOR
DANBURY, CT 06810

NOTE:
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HOMELAND TOWERS
LAKE CASSE

SITE ADDRESS: 254 CROTON FALLS ROAD
CARMEL, NY 10541

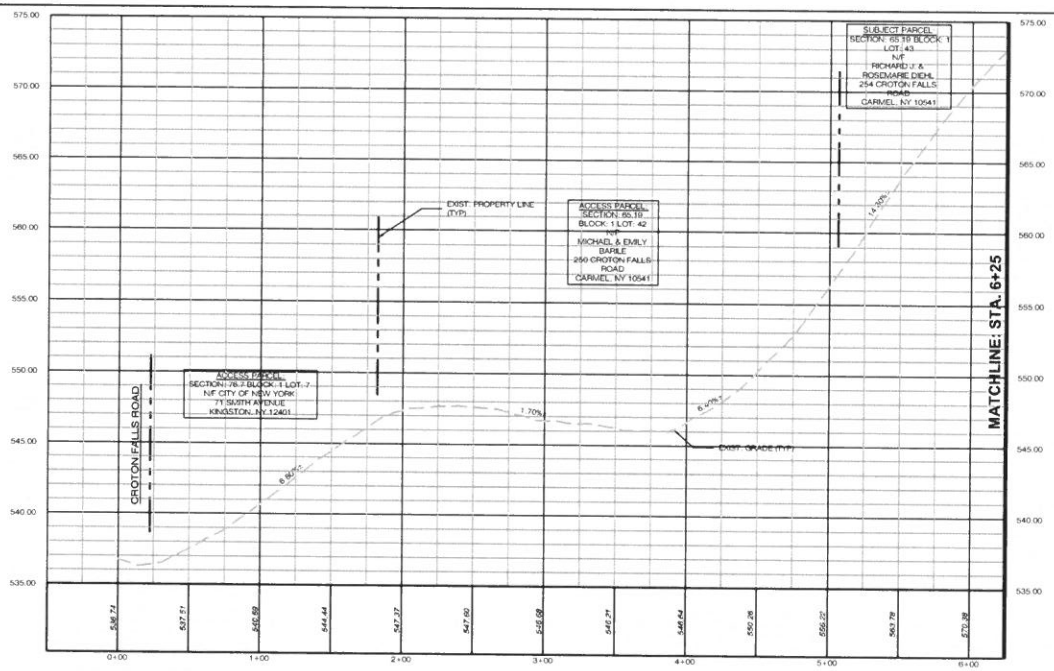
APT FILING NUMBER: NY283550

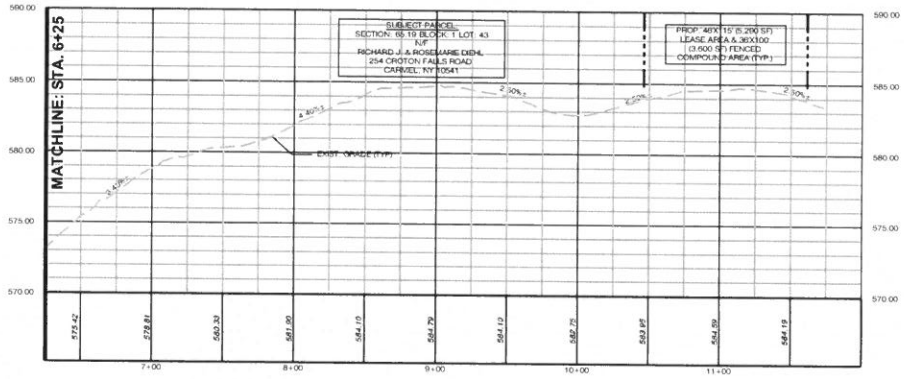
DATE: 07/05/18 | DRAWN BY: CSH
CHECKED BY: RCB

SHEET TITLE:
PARTIAL SITE PLAN

SHEET NUMBER:
SP-3

STATE OF NEW YORK
SCOTT M. CHASSE
PROFESSIONAL ENGINEER





(IN FEET) 1 inch = 40 ft. HORIZONTAL

(IN FEET) 1 inch = 4 ft. VERTICAL

1 SP-4 EXISTING DRIVEWAY PROFILE

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

HOMELAND TOWERS, LLC
9 HARMONY STREET
2ND FLOOR
DANBURY, CT 06810
(203) 297-6345

verizon
4 CENTEROCK ROAD
WEST NYACK, NY 10994

APT ENGINEERING
3 SADDLEBROOK DRIVE
KILLINGWORTH, CT 06419
PHONE: (860) 663-1897
FAX: (860) 663-0935
WWW.ALLPOINTSTECH.COM

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DESIGN PROFESSIONALS OF RECORD

PROF: SCOTT M. CHASSE P.E.
COMP: APT ENGINEERING
ADD: 3 SADDLEBROOK DRIVE
KILLINGWORTH, CT 06419

DEVELOPER: HOMELAND TOWERS, LLC
ADDRESS: 9 HARMONY STREET
2ND FLOOR
DANBURY, CT 06810

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HOMELAND TOWERS
LAKE CASSE

SITE ADDRESS: 254 CROTON FALLS ROAD
CARMEL, NY 10541

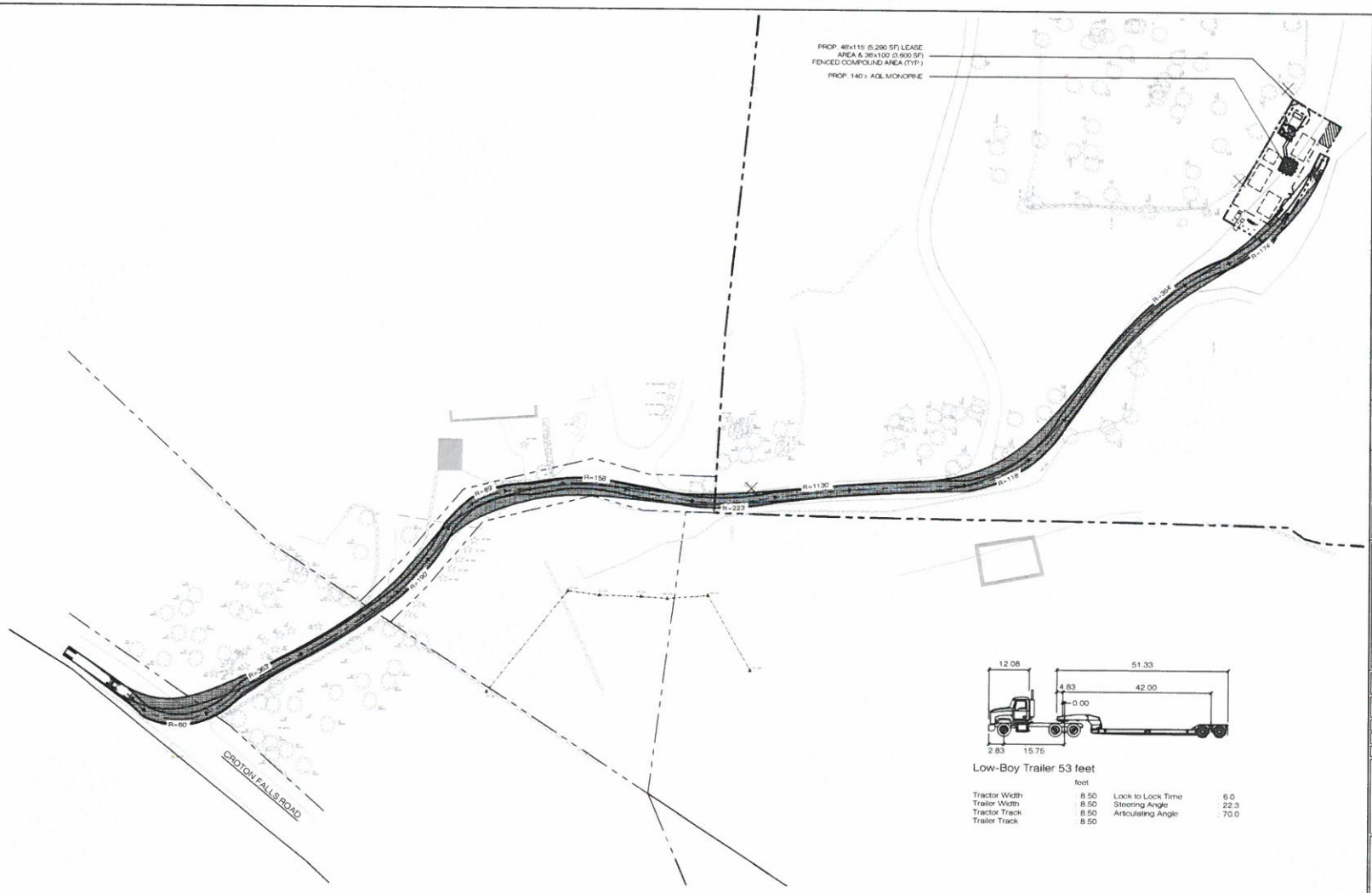
APT FILING NUMBER: NY283550

DATE: 07/05/18 | DRAWN BY: CSH
CHECKED BY: RCB

SHEET TITLE:
EXISTING DRIVEWAY PROFILE

SHEET NUMBER:
SP-4

STATE OF NEW YORK
SCOTT M. CHASSE
PROFESSIONAL ENGINEER



1 SP-5 **TRUCK TURNING PLAN**
SCALE : 1" = 40'-0"

HOMELAND TOWERS, LLC
9 HARMONY STREET
2ND FLOOR
DANBURY, CT 06810
(203) 297-6345

verizon
4 CENTEROCK ROAD
WEST NYACK, NY 10994

APT ENGINEERING
3 SADDLEBROOK DRIVE
KILLINGWORTH, CT 06419
WWW.ALLPOINTSTECH.COM
PHONE: (860) 663-1897
FAX: (860) 663-0935

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11	09/17/19	ECB COMMENTS: RCB

DESIGN PROFESSIONALS OF RECORD

PROF: SCOTT M. CHASSE P.E.
COMP: APT ENGINEERING
ADD: 3 SADDLEBROOK DRIVE
KILLINGWORTH, CT 06419

DEVELOPER: HOMELAND TOWERS, LLC
ADDRESS: 9 HARMONY STREET
2ND FLOOR
DANBURY, CT 06810

NOTE:
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HOMELAND TOWERS
LAKE CASSE

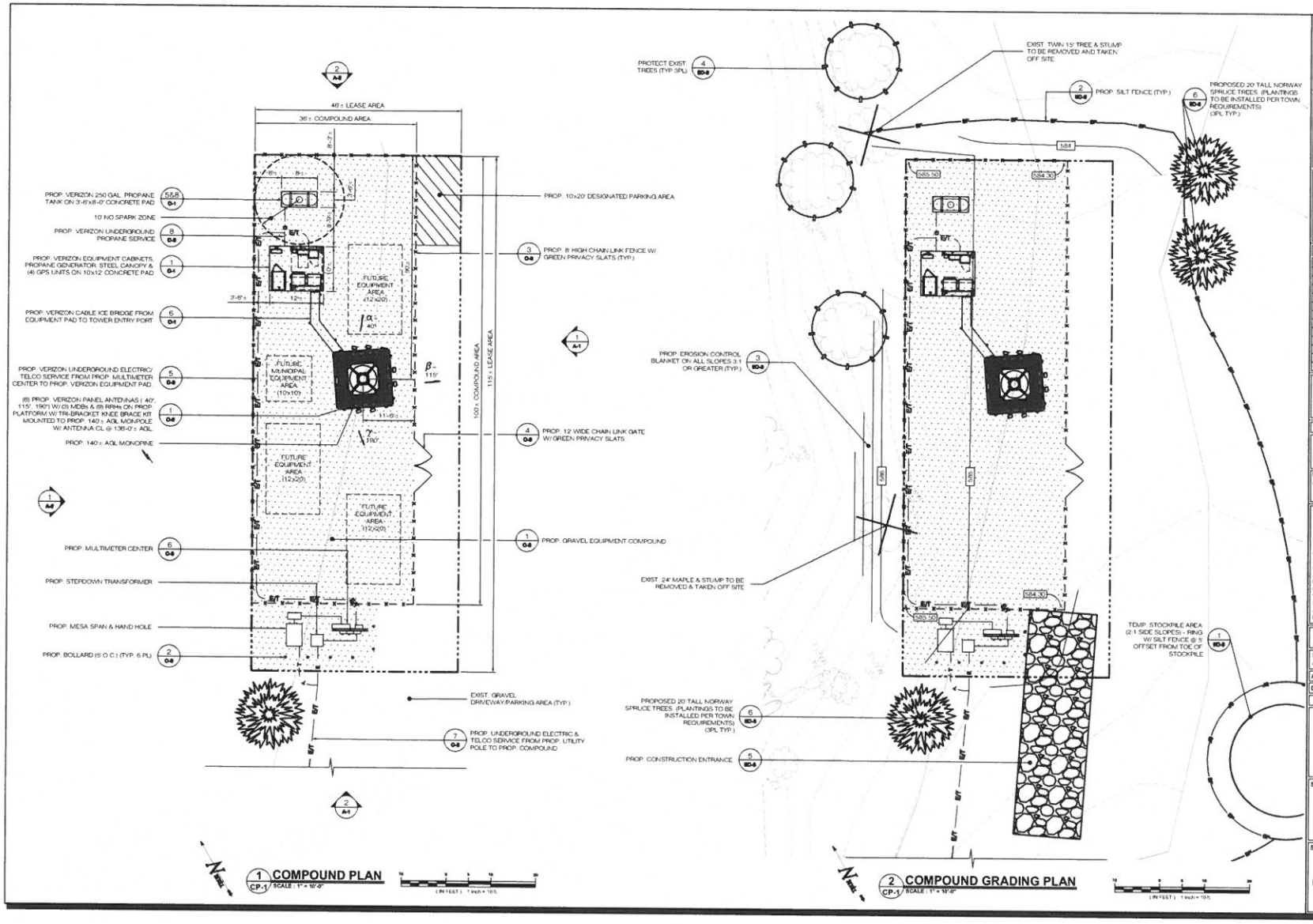
SITE ADDRESS: 254 CROTON FALLS ROAD
CARMEL, NY 10541

APT FILING NUMBER: NY383550

DATE: 07/05/18 | DRAWN BY: CSH
CHECKED BY: RCB

SHEET TITLE:
TRUCK TURNING PLAN

SHEET NUMBER:
SP-5



HOMELAND TOWERS, LLC
9 HARMONY STREET
2nd FLOOR
DANBURY, CT 06810
(203) 297-6345

verizon

4 CENTEROCK ROAD
WEST NYACK, NY 10994

APT ENGINEERING

3 SADDLEBROOK DRIVE
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PHONE: (860)663-1897
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DESIGN PROFESSIONALS OF RECORD

PROF: SCOTT M. CHASSE P.E.
COMP: APT ENGINEERING
ADD: 3 SADDLEBROOK DRIVE
KILLINGWORTH, CT 06419

DEVELOPER: HOMELAND TOWERS, LLC
ADDRESS: 9 HARMONY STREET
2ND FLOOR
DANBURY, CT 06810

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HOMELAND TOWERS
LAKE CASSE

SITE ADDRESS: 254 CROTON FALLS ROAD
CARMEL, NY 10541

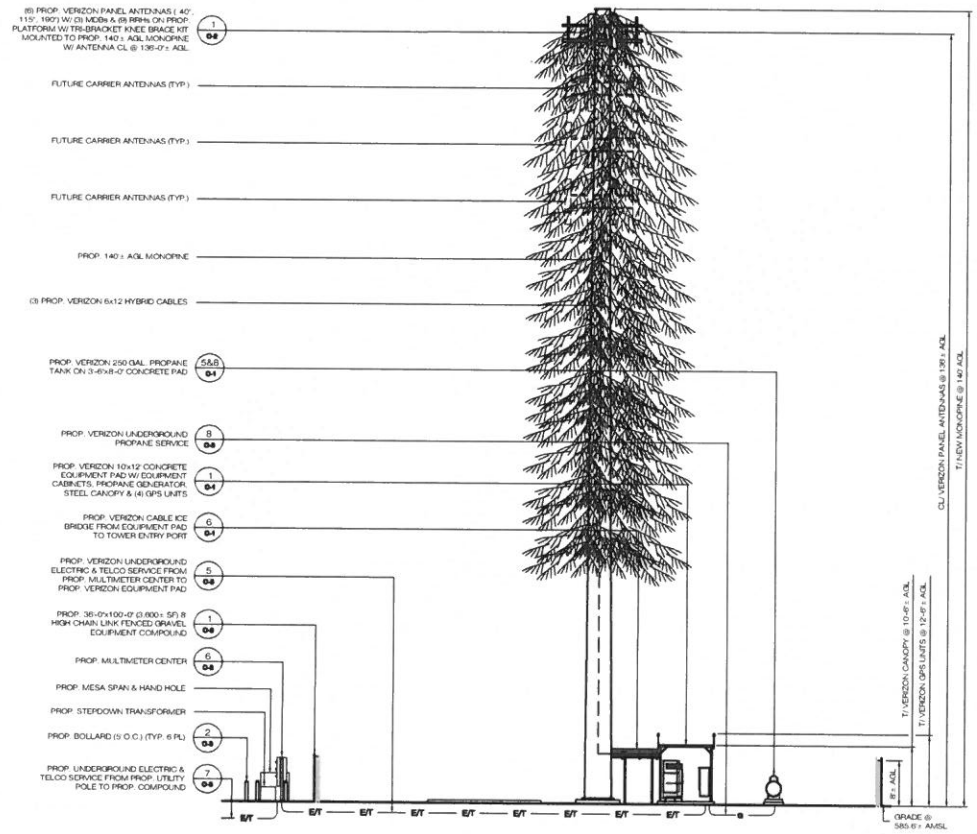
APT FILING NUMBER: NY283550

DATE: 07/05/18
DRAWN BY: CSH
CHECKED BY: RCB

SHEET TITLE:
COMPOUND PLAN

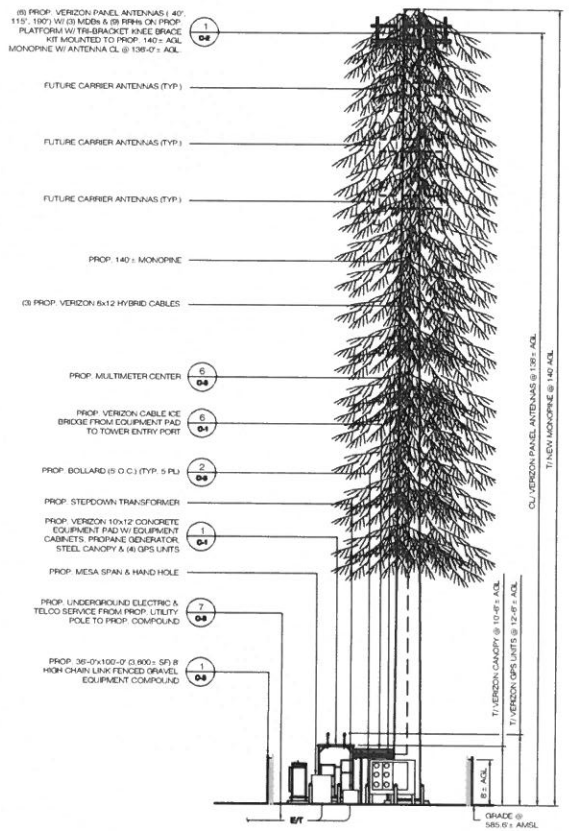
SHEET NUMBER:
CP-1

STATE OF NEW YORK
SCOTT M. CHASSE
PROFESSIONAL ENGINEER



1 A-1 **EAST ELEVATION**
SCALE : 1" = 10'-0"

(IN FEET) 1 inch = 10 ft.



2 A-1 **SOUTH ELEVATION**
SCALE : 1" = 10'-0"

(IN FEET) 1 inch = 10 ft.

ANTENNA SOCKS TO BE PROVIDED ON ALL PROPOSED ANTENNAS

HOMELAND TOWERS, LLC
9 HARMONY STREET
2nd FLOOR
DANBURY, CT 06810
(203) 297-6345

verizon
4 CENTEROCK ROAD
WEST NYACK, NY 10994

APT ENGINEERING
3 SADDLEBROOK DRIVE
KILLINGWORTH, CT 06419
PHONE: (860)-663-1697
FAX: (860)-663-0033
WWW.ALLPOINTSTECH.COM

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DESIGN PROFESSIONALS OF RECORD

PROF: SCOTT M. CHASSE P.E.
COMP: APT ENGINEERING
ADD: 3 SADDLEBROOK DRIVE
KILLINGWORTH, CT 06419

DEVELOPER: HOMELAND TOWERS, LLC
ADDRESS: 9 HARMONY STREET
2ND FLOOR
DANBURY, CT 06810

NOTE:
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HOMELAND TOWERS
LAKE CASSE

SITE ADDRESS: 254 CROTON FALLS ROAD
CARMEL, NY 10541

APT FILING NUMBER: NY283550

DATE: 07/05/18 | DRAWN BY: CSH
CHECKED BY: RCB

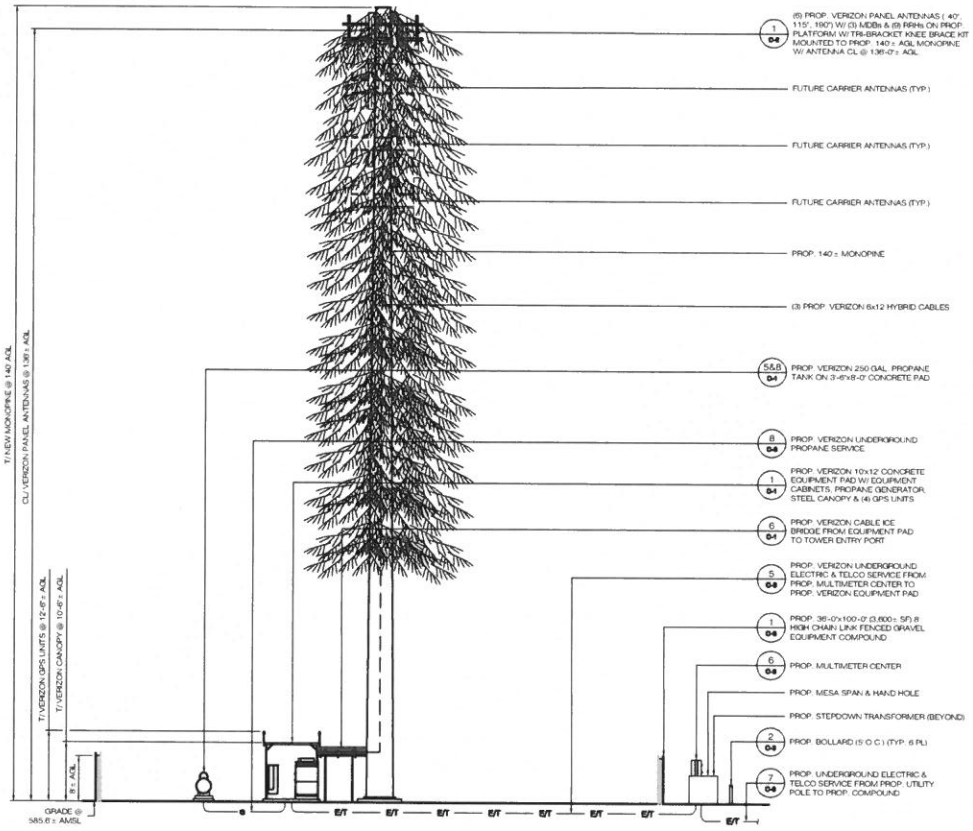
SHEET TITLE:

ELEVATIONS

SHEET NUMBER:

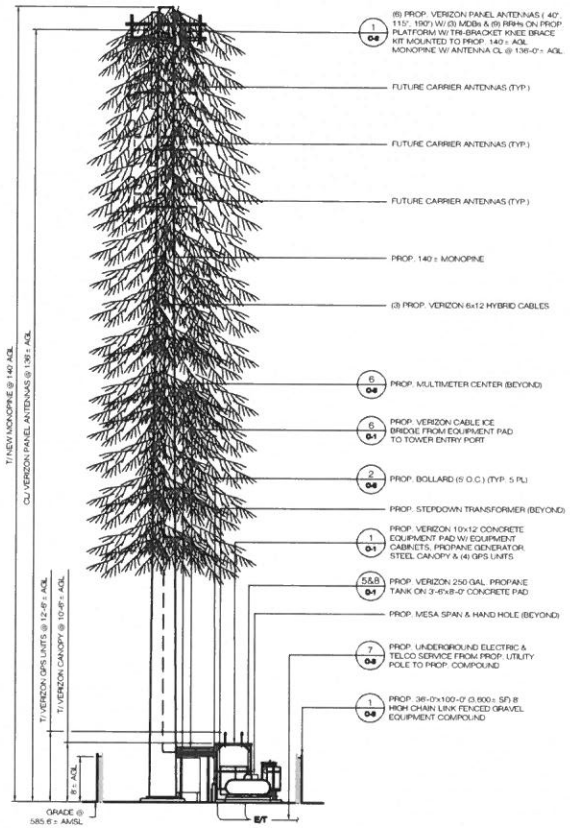
A-1

STATE OF NEW YORK
SCOTT M. CHASSE
083843
LICENSED PROFESSIONAL ENGINEER



1 A-2 WEST ELEVATION
SCALE : 1" = 10'-0"

(IN FEET) 1 inch = 10 ft.



2 A-2 NORTH ELEVATION
SCALE : 1" = 10'-0"

(IN FEET) 1 inch = 10 ft.

ANTENNA SOCKS TO BE PROVIDED ON ALL PROPOSED ANTENNAS

HOMELAND TOWERS, LLC
9 HARMONY STREET
2nd FLOOR
DANBURY, CT 06810
(203) 297 6345

verizon
4 CENTEROCK ROAD
WEST NYACK, NY 10994

APT ENGINEERING
3 SADDLEBROOK DRIVE
KILLINGWORTH, CT 06419
PHONE: (860) 663-1897
FAX: (860) 663-0630
WWW.ALLPOINTSTECH.COM

PERMITTING DOCUMENTS

NO	DATE	REVISION
0	07/05/18	FOR REVIEW: RCB
1	07/20/18	CLIENT REVS: RCB
2	07/26/18	CLIENT REVS: RCB
3	11/12/18	TOWN COMMENTS: RCB
4	03/13/19	TOWN COMMENTS: RCB
5	05/03/19	TOWN COMMENTS: RCB
6	05/07/19	TOWN COMMENTS: RCB
7	06/24/19	TOWN COMMENTS: RCB
8	07/12/19	CLIENT REVS: RCB
9	08/06/19	TOWN COMMENTS: RCB
10	08/13/19	ATTY COMMENTS: RCB
11	09/17/19	ECB COMMENTS: RCB

DESIGN PROFESSIONALS OF RECORD

PROF: SCOTT M. CHASSE P.E.
COMP: APT ENGINEERING
ADD: 3 SADDLEBROOK DRIVE
KILLINGWORTH, CT 06419

DEVELOPER: HOMELAND TOWERS, LLC
ADDRESS: 9 HARMONY STREET
2ND FLOOR
DANBURY, CT 06810

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HOMELAND TOWERS
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CARMEL, NY 10541

APT FILING NUMBER: NY283550

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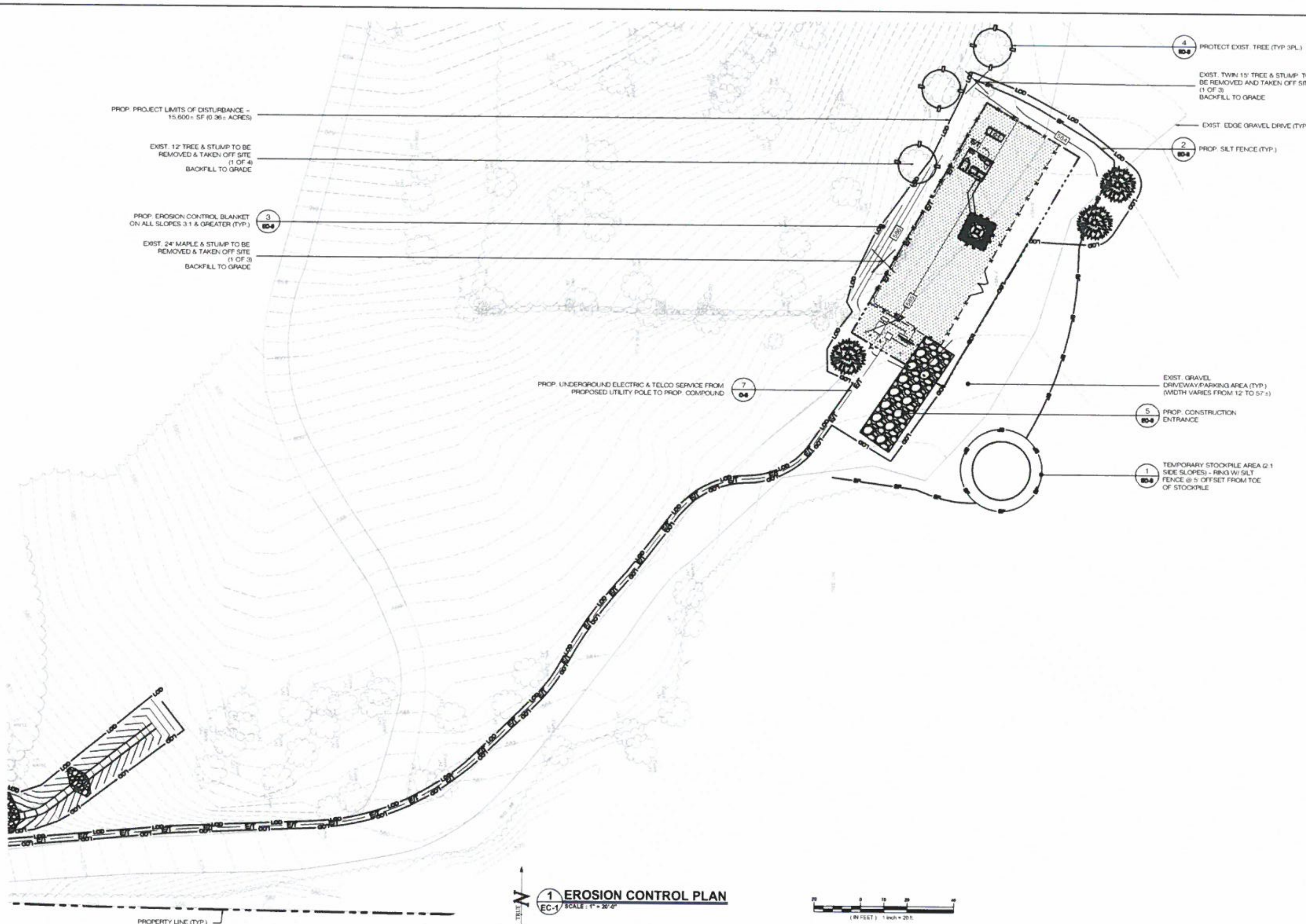
SHEET TITLE:
ELEVATIONS

SHEET NUMBER:
A-2

STATE OF NEW YORK · SCOTT M. CHASSE · 073191 · LICENSED PROFESSIONAL ENGINEER



1 EC-1 **EROSION CONTROL PLAN**
SCALE : 1" = 20'-0"

HOMELAND TOWERS, LLC
9 HARMONY STREET
2nd FLOOR
DANBURY, CT 06810
(203) 297-6345

verizon
4 CENTEROCK ROAD
WEST NYACK, NY 10994

APT ENGINEERING
3 SADDLEBROOK DRIVE
KILLINGWORTH, CT 06419
PHONE: (860)-663-1697
FAX: (860)-663-0935
WWW.ALLPOINTSTECH.COM

PERMITTING DOCUMENTS

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11	09/17/19	ECB COMMENTS: RCB

DESIGN PROFESSIONALS OF RECORD

PROF: SCOTT M. CHASSE P.E.
COMP: APT ENGINEERING
ADD: 3 SADDLEBROOK DRIVE
KILLINGWORTH, CT 06419

DEVELOPER: HOMELAND TOWERS, LLC
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SHEET TITLE:
EROSION CONTROL PLAN

SHEET NUMBER:
EC-1

STATE OF NEW YORK · SCOTT M. CHASSE · 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 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 OWNER 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 (STRAW 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, STRAW 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 STRAW 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 3:1 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), 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 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 140'± AGL HIGH MONOPINE 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 140'± AGL MONOPINE.
   B. CONSTRUCTION OF 36'x100' (3,600± SF) FENCED EQUIPMENT COMPOUND W/ GRAVEL SURFACE TREATMENT AND ASSOCIATED UTILITIES.
   C. CONSTRUCTION OF 10'x12' (120± SF) CONCRETE EQUIPMENT PAD & 3'-6"x8' CONCRETE PAD WITH 250 GALLON PROPANE TANK.
   D. CONSTRUCTION OF UNDERGROUND ELEC. & TELCO SERVICE.
   E. THE STABILIZATION OF PERVIOUS DISTURBED AREAS WITH PERMANENT GRASS TREATMENTS.
2. FOR THIS PROJECT, THERE ARE APPROXIMATELY 15,800± SF (0.36± ACRES) OF THE SITE BEING DISTURBED.
3. A GEOTECHNICAL ENGINEERING REPORT IS TOO BE COMPLETED FOR THIS PROJECT AND WILL BE AVAILABLE UNDER SEPARATE COVER.
4. IT IS ANTICIPATED THAT CONSTRUCTION WILL BE COMPLETED IN APPROXIMATELY 12 WEEKS.
5. REFER TO THE CONSTRUCTION SEQUENCING AND EROSION AND SEDIMENTATION NOTES FOR INFORMATION REGARDING SEQUENCING OF MAJOR OPERATIONS IN THE ON-SITE CONSTRUCTION PHASES.
6. 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.
7. DETAILS FOR THE TYPICAL EROSION AND SEDIMENTATION MEASURES ARE SHOWN ON PLAN SHEET EC-2 OR PROVIDED AS SEPARATE SUPPORT DOCUMENTATION FOR REVIEW IN THIS PLAN.
8. 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. CONTRACTOR TO HIRE SURVEYOR FOR PROJECT STAKEOUT AS NEEDED THROUGHOUT CONSTRUCTION ACTIVITIES.

1. CONTACT THE OWNER TO SCHEDULE A PRE-CONSTRUCTION MEETING. PHYSICALLY FLAG THE TREES TO BE REMOVED IN THE FIELD AS NECESSARY TO FACILITATE THE 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, TOWN REPRESENTATIVES 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 AY (800) 962-7962.
4. CLEAR AND GRUB AS REQUIRED, TO INSTALL THE PERIMETER EROSION AND SEDIMENTATION CONTROL MEASURES AND, IF APPLICABLE, TREE PROTECTION.
5. 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.
6. TEMPORARILY SEED DISTURBED AREAS NOT UNDER CONSTRUCTION FOR THIRTY (30) DAYS OR MORE.
7. EXCAVATE AND ROUGH GRADE EQUIPMENT COMPOUND.
8. EXCAVATE FOR TOWER FOUNDATION & EQUIPMENT PAD.
9. PREPARE SUBGRADE AND INSTALL FORMS, STEEL REINFORCING, & CONCRETE FOR TOWER FOUNDATION, EQUIPMENT PADS & EQUIPMENT SHELTER FOUNDATION.
10. INSTALL BURIED GROUND RINGS, GROUND RODS, GROUND LEADS, UTILITY CONDUITS & UTILITY EQUIPMENT.
11. BACKFILL TOWER FOUNDATION.
12. ERECT MONOPINE.
13. INSTALL TELECOMMUNICATIONS EQUIPMENT ON TOWER & COMPOUND.
14. INSTALL COMPOUND GRAVEL SURFACES.
15. FINALIZE GRADES. INSTALL GRAVEL SURFACES.
16. INSTALL FENCING.
17. CONNECT GROUNDING LEADS & LIGHTENING PROTECTION.
18. FINAL GRADE AROUND COMPOUND.
19. LOAM & SEED DISTURBED AREAS OUTSIDE COMPOUND, AS REQUIRED.
20. TEST ALL NEW EQUIPMENT.
21. AFTER THE SITE IS STABILIZED AND WITH THE APPROVAL OF THE OWNER, REMOVE PERIMETER EROSION AND SEDIMENTATION CONTROLS.
22. PERFORM FINAL PROJECT CLEANUP.

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

CONSTRUCTION OPERATION AND MAINTENANCE PLAN - BY CONTRACTOR

E&S MEASURE	INSPECTION SCHEDULE	MAINTENANCE REQUIRED
CONSTRUCTION ENTRANCE	DAILY	PLACE ADDITIONAL STONE, EXTEND THE LENGTH OR REMOVE AND REPLACE THE STONE. CLEAN PAVED SURFACES OF TRACKED SEDIMENT.
HAY BALES	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 BALE.
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.
SILT SACKS	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 SACK.
TOPSOIL/BORROW STOCKPILES	DAILY	REPAIR/REPLACE SEDIMENT BARRIERS AS NECESSARY.
WATER BARS	DAILY	REPAIR/RESHAPE AS NECESSARY. REMOVE SILT WHEN IT REACHES 1/2 THE HEIGHT OF THE WATER BAR.
TEMPORARY DIVERSION DITCHES	DAILY & WITHIN 24 HOURS OF RAINFALL > 0.2"	REPAIR/RESHAPE AS NECESSARY. REVIEW CONDITIONS IF REPETITIVE FAILURES OCCUR.
TEMPORARY SEDIMENT TRAPS/BASINS	WEEKLY & WITHIN 24 HOURS OF RAINFALL > 0.2"	REMOVE SEDIMENT WHEN IT REACHES 1/2 OF THE MINIMUM REQUIRED WET STORAGE VOLUME.
TEMPORARY SOIL PROTECTION	WEEKLY & WITHIN 24 HOURS OF RAINFALL > 0.2"	REPAIR ERODED OR BARE AREAS IMMEDIATELY. RESEED AND MULCH.

PETROLEUM MATERIALS STORAGE & SPILL PREVENTION

A. CERTAIN PRECAUTIONS ARE NECESSARY TO STORE PETROLEUM MATERIALS, REFUEL AND CONTAIN AND PROPERLY CLEAN UP ANY INADVERTENT FUEL OR PETROLEUM (I.E., OIL, HYDRAULIC FLUID, ETC.) SPILL DUE TO THE PROJECT'S LOCATION IN PROXIMITY TO WETLAND RESOURCES.

B. A SPILL CONTAINMENT KIT CONSISTING OF A SUFFICIENT SUPPLY OF ABSORBENT PADS AND ABSORBENT MATERIAL WILL BE MAINTAINED BY THE CONTRACTOR AT THE CONSTRUCTION SITE THROUGHOUT THE DURATION OF THE PROJECT. IN ADDITION, A WASTE DRUM WILL BE KEPT ON SITE TO CONTAIN ANY USED ABSORBENT PADS/MATERIAL FOR PROPER AND TIMELY DISPOSAL OFF SITE IN ACCORDANCE WITH APPLICABLE LOCAL, STATE AND FEDERAL LAWS.

C. THE FOLLOWING PETROLEUM AND HAZARDOUS MATERIALS STORAGE AND REFUELING RESTRICTIONS AND SPILL RESPONSE PROCEDURES WILL BE ADHERED TO BY THE CONTRACTOR.

I. PETROLEUM AND HAZARDOUS MATERIALS STORAGE AND REFUELING

1. REFUELING OF VEHICLES OR MACHINERY SHALL OCCUR A MINIMUM OF 100 FEET FROM WETLANDS OR WATERCOURSES AND SHALL TAKE PLACE ON AN IMPERVIOUS PAD WITH SECONDARY CONTAINMENT DESIGNED TO CONTAIN FUELS.
2. ANY FUEL OR HAZARDOUS MATERIALS THAT MUST BE KEPT ON SITE SHALL BE STORED ON AN IMPERVIOUS SURFACE UTILIZING SECONDARY CONTAINMENT A MINIMUM OF 100 FEET FROM WETLANDS OR WATERCOURSES.

II. INITIAL SPILL RESPONSE PROCEDURES

1. STOP OPERATIONS AND SHUT OFF EQUIPMENT
2. REMOVE ANY SOURCES OF SPARK OR FLAME
3. CONTAIN THE SOURCE OF THE SPILL
4. DETERMINE THE APPROXIMATE VOLUME OF THE SPILL
5. IDENTIFY THE LOCATION OF NATURAL FLOW PATHS TO PREVENT THE RELEASE OF THE SPILL TO SENSITIVE NEARBY WATERWAYS OR WETLANDS
6. ENSURE THAT FELLOW WORKERS ARE NOTIFIED OF THE SPILL

III. SPILL CLEAN UP & CONTAINMENT

1. OBTAIN SPILL RESPONSE MATERIALS FROM THE ON-SITE SPILL RESPONSE KIT. PLACE ABSORBENT MATERIALS DIRECTLY ON THE RELEASE AREA
2. LIMIT THE SPREAD OF THE SPILL BY PLACING ABSORBENT MATERIALS AROUND THE PERIMETER OF THE SPILL
3. ISOLATE AND ELIMINATE THE SPILL SOURCE
4. CONTACT THE APPROPRIATE LOCAL, STATE AND/OR FEDERAL AGENCIES, AS NECESSARY
5. CONTACT A DISPOSAL COMPANY TO PROPERLY DISPOSE OF CONTAMINATED MATERIALS

IV. REPORTING

1. COMPLETE AN INCIDENT REPORT
2. SUBMIT A COMPLETED INCIDENT REPORT TO LOCAL, STATE AND FEDERAL AGENCIES, AS NECESSARY

HOMELAND TOWERS, LLC
9 HARMONY STREET
2nd FLOOR
DANBURY, CT 06810
(203) 297-6345

verizon
4 CENTEROCK ROAD
WEST NYACK, NY 10994

APT ENGINEERING
3 SADDLEBROOK DRIVE
KILLINGWORTH, CT 06419
PHONE: (860)-663-1697
FAX: (860)-663-0935
WWW.ALLPOINTSTECH.COM

PERMITTING DOCUMENTS

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DESIGN PROFESSIONALS OF RECORD

PROF: SCOTT M. CHASSE P.E.
COMP: APT ENGINEERING
ADD: 3 SADDLEBROOK DRIVE
KILLINGWORTH, CT 06419

DEVELOPER: HOMELAND TOWERS, LLC
ADDRESS: 9 HARMONY STREET
2ND FLOOR
DANBURY, CT 06810

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HOMELAND TOWERS
LAKE CASSE

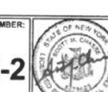
SITE ADDRESS: 254 CROTON FALLS ROAD, CARMEL, NY 10541

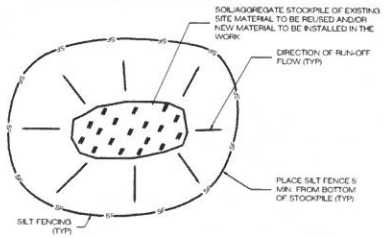
APT FILING NUMBER: NY283550

DATE: 07/05/18 | DRAWN BY: CSH | CHECKED BY: RCB

SHEET TITLE:
EROSION CONTROL NOTES

SHEET NUMBER:
EC-2





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.

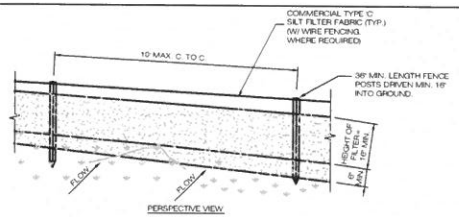
2. SOIL/AGGREGATE STOCKPILE SITES TO BE WHERE SHOWN ON THE DRAWINGS.

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.

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



CONSTRUCTION SPECIFICATIONS
1. POSTS SHALL BE STEEL EITHER 'T' OR 'U' TYPE OR HARDWOOD.

2. WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER THEY SHALL BE OVERLAPPED BY SIX INCHES AND FOLDED. FILTER CLOTH SHALL BE EITHER FILTER X, MIRAFI 100X, STABILINKA T140N, OR APPROVED EQUIVALENT.

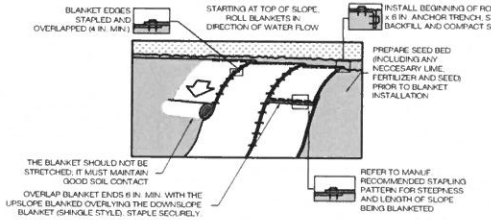
3. PREFABRICATED UNITS SHALL BE GEOFAB, ENVIROFENCE, OR APPROVED EQUIVALENT.

4. MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIAL REMOVED WHEN "BULGES" DEVELOP IN THE SILT FENCE.

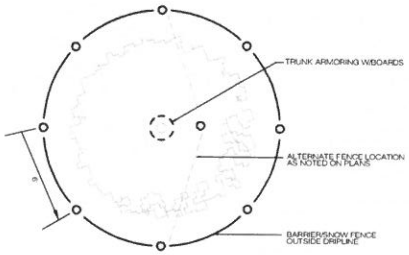
2 GEOTEXTILE SILT FENCE DETAIL
EC-3 SCALE : N.T.S.

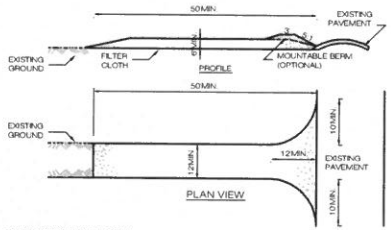
SEQUENCE OF CONSTRUCTION:
1. PREPARE SOIL BEFORE INSTALLING ROLLED EROSION CONTROL PRODUCTS (RECPS), INCLUDING ANY NECESSARY APPLICATION OF LIME, FERTILIZER, AND SEED.
2. BEGIN AT THE TOP OF THE SLOPE BY ANCHORING THE RECPS IN A 6" DEEP X 6" WIDE TRENCH WITH APPROXIMATELY 12" OF RECPS EXTENDED BEYOND THE UP-SLOPE PORTION OF THE TRENCH. ANCHOR THE RECPS WITH A ROW OF STAPLES/STAKES APPROXIMATELY 12" APART IN THE BOTTOM OF THE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING. APPLY SEED TO THE COMPACTED SOIL AND FOLD THE REMAINING 12" PORTION OF RECPS BACK OVER THE SEED AND COMPACTED SOIL. SECURE RECPS OVER COMPACTED SOIL WITH A ROW OF STAPLES/STAKES SPACED APPROXIMATELY 12" APART ACROSS THE WIDTH OF THE RECPS.
3. ROLL THE RECPS DOWN HORIZONTALLY ACROSS THE SLOPE. RECPS WILL UNROLL WITH APPROPRIATE SIDE AGAINST THE SOIL SURFACE. ALL RECPS MUST BE SECURELY FASTENED TO SOIL SURFACE BY PLACING STAPLES/STAKES IN APPROPRIATE LOCATIONS AS SHOWN IN THE STAPLE PATTERN GUIDE.
4. THE EDGES OF PARALLEL RECPS MUST BE STAPLED WITH APPROXIMATELY 2' - 5' OVERLAP DEPENDING ON THE RECPS TYPE.
5. CONSECUTIVE RECPS SPLICED DOWN THE SLOPE MUST BE END OVER END (SHINGLE STYLE) WITH AN APPROXIMATE 3' OVERLAP. STAPLE THROUGH OVERLAPPED AREA, APPROXIMATELY 12" APART ACROSS ENTIRE RECPS WIDTH.

NOTES:
1. PROVIDE ANCHOR TRENCH AT TOE OF SLOPE IN SIMILAR FASHION AS AT TOP OF SLOPE.
2. SLOPE SURFACE SHALL BE FREE OF ROCKS, CLODS, STICKS, AND GRASS.
3. BLANKET SHALL HAVE GOOD CONTINUOUS CONTACT WITH UNDERLYING SOIL THROUGHOUT ENTIRE LENGTH. LAY BLANKET LOOSELY AND STAKE OR STAPLE TO MAINTAIN DIRECT CONTACT WITH SOIL. DO NOT STRETCH BLANKET.
4. THE BLANKET SHALL BE STAPLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.
5. BLANKETED AREAS SHALL BE INSPECTED WEEKLY AND AFTER EACH RUNOFF EVENT UNTIL PERENNIAL VEGETATION IS ESTABLISHED TO A MINIMUM UNIFORM 70% COVERAGE THROUGHOUT THE BLANKETED AREA. DAMAGED OR DISPLACED BLANKETS SHALL BE RESTORED OR REPLACED WITHIN 4 CALENDAR DAYS.



3 EROSION CONTROL BLANKET STEEP SLOPES
EC-3 SCALE : N.T.S.





CONSTRUCTION SPECIFICATIONS:
1. STONE SIZE - USE 1-4 INCH STONE, OR RECLAIMED OR RECYCLED CONCRETE EQUIVALENT.

2. LENGTH - NOT LESS THAN 50 FEET (EXCEPT ON A SINGLE RESIDENCE LOT WHERE A 30 FOOT MINIMUM LENGTH WOULD APPLY).

3. THICKNESS - NOT LESS THAN SIX (6) INCHES.

4. WIDTH - TWELVE (12) FOOT MINIMUM, BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE INGRESS OR EGRESS OCCURS. TWENTY-FOUR (24) FOOT IF SINGLE ENTRANCE TO SITE.

5. GEOTEXTILE - WILL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING OF STONE.

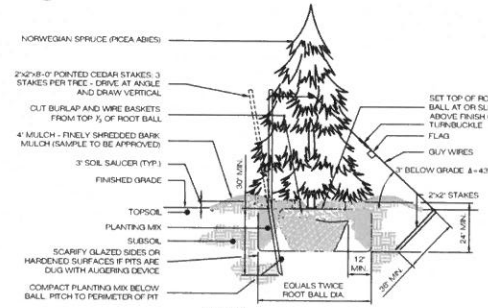
6. SURFACE WATER - ALL SURFACE WATER FLOWING OR DIVERTED TOWARD CONSTRUCTION ACCESS SHALL BE PIPED BENEATH THE ENTRANCE. IF PIPING IS IMPRACTICAL, A MOUNTABLE BERM WITH 5:1 SLOPES WILL BE PERMITTED.

7. MAINTENANCE - THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHTS-OF-WAY MUST BE REMOVED IMMEDIATELY.

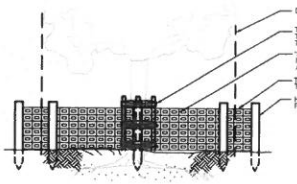
8. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON A AREA STABILIZED WITH STONE AND WHICH DRAINS INTO AN APPROVED SEDIMENT TRAPPING DEVICE.

9. PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED AFTER EACH RAIN.

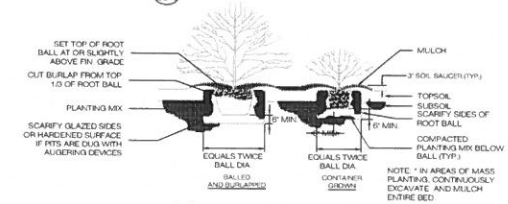
5 CONSTRUCTION ENTRANCE DETAIL
EC-3 SCALE : N.T.S.



6 EVERGREEN TREE PLANTING
EC-3 SCALE : N.T.S.



4 TREE PROTECTION
EC-3 SCALE : N.T.S.



7 SHRUB PLANTING
EC-3 SCALE : N.T.S.

HOMELAND TOWERS, LLC
9 HARMONY STREET
2ND FLOOR
DANBURY, CT 06810
(203) 297-6345

verizon
4 CENTEROCK ROAD
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APT ENGINEERING
3 SADDLEBROOK DRIVE PHONE: (860)-663-1897
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DESIGN PROFESSIONALS OF RECORD

PROF: SCOTT M. CHASSE P.E.
COMP: APT ENGINEERING
ADD: 3 SADDLEBROOK DRIVE KILLINGWORTH, CT 06419

DEVELOPER: HOMELAND TOWERS, LLC
ADDRESS: 9 HARMONY STREET 2ND FLOOR DANBURY, CT 06810

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HOMELAND TOWERS
LAKE CASSE

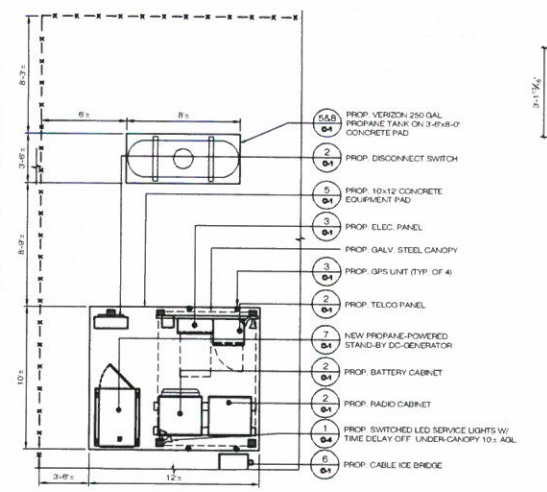
SITE ADDRESS: 254 CROTON FALLS ROAD, CARMEL, NY 10541

APT FILING NUMBER: NY283550

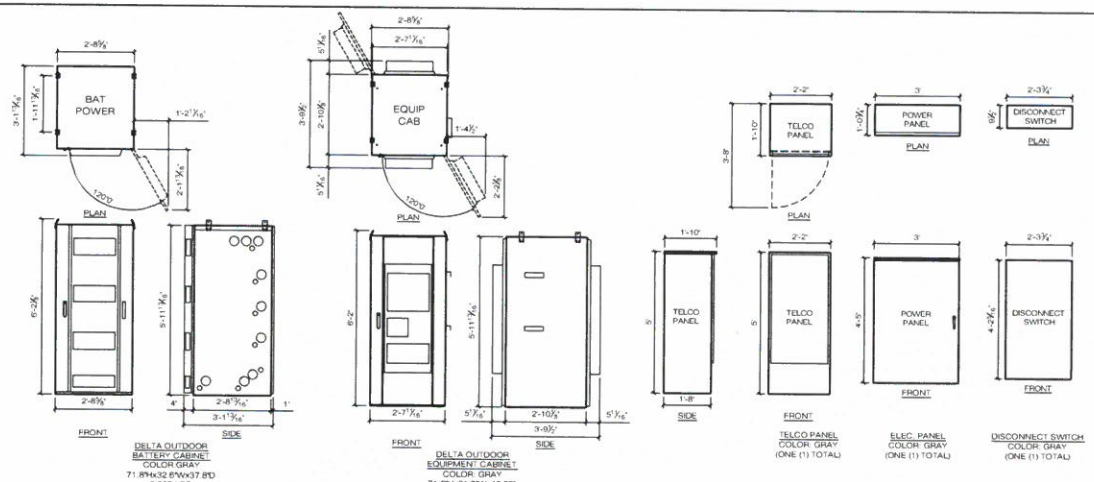
DATE: 07/05/18 DRAWN BY: CSH
CHECKED BY: RCB

SHEET TITLE:
EROSION CONTROL DETAILS

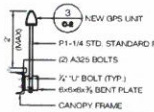
SHEET NUMBER:
EC-3



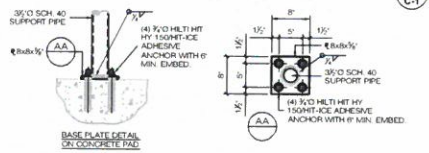
1 VERIZON EQUIPMENT AREA
C-1 SCALE : 1/4" = 1'-0"



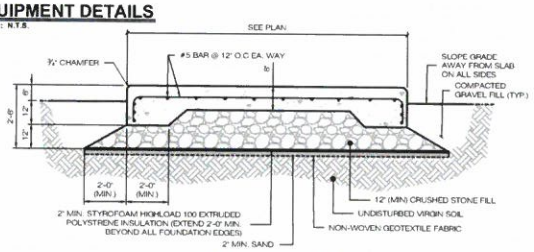
2 EQUIPMENT DETAILS
C-1 SCALE : N.T.S.



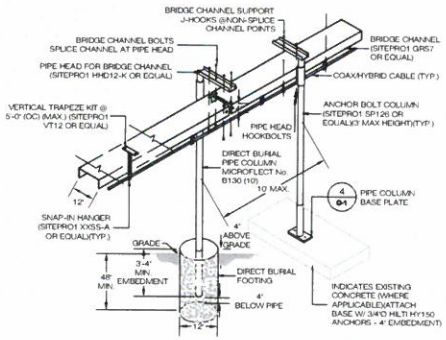
3 GPS MOUNT
C-1 SCALE : N.T.S.



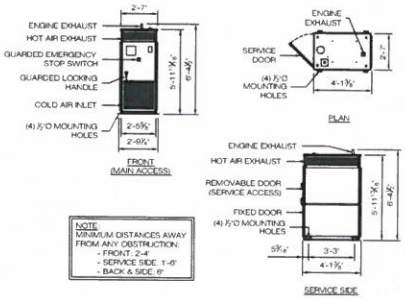
4 PIPE BASE PLATE
C-1 SCALE : N.T.S.



5 EQUIPMENT PAD
C-1 SCALE : N.T.S.

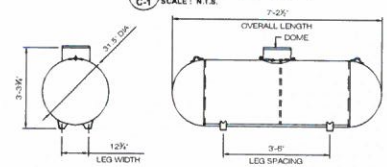


6 CABLE BRIDGE & COAX HANGER DETAIL
C-1 SCALE : N.T.S.



POLAR POWER INC.
15KW PROPANE-POWERED GENERATOR
MODEL # 8340-603-LP-15, -48VDC
COLOR: GRAY

7 PROPANE GENERATOR SCHEMATICS
C-1 SCALE : 1/4" = 1'-0"



FRONT VIEW — SIDE VIEW

1. 250 U.S.W.G. AMSE VIII, DIV. 1 ABOVE GROUND LPG TANK AS MANUFACTURED BY TRINITY CONTAINERS, LLC:-
   - WWW.TRINITYCONTAINERS.COM
   - PH: 1-888-558-8265
   - WEIGHT (EMPTY) = 472 lbs
   - COLOR: WHITE
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

8 ABOVE GROUND PROPANE TANK DETAIL
C-1 SCALE : N.T.S.

HOMELAND TOWERS, LLC
9 HARMONY STREET
2nd FLOOR
DANBURY, CT 06810
(203) 297-6345

verizon
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HOMELAND TOWERS
LAKE CASSE

SITE ADDRESS: 254 CROTON FALLS ROAD, CARMEL, NY 10541

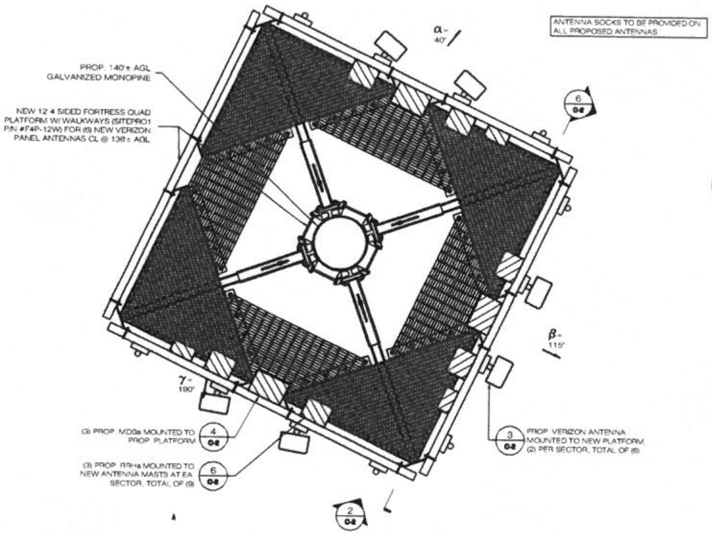
APT FILING NUMBER: NY283550

DATE: 07/05/18 | DRAWN BY: CSH | CHECKED BY: RCB

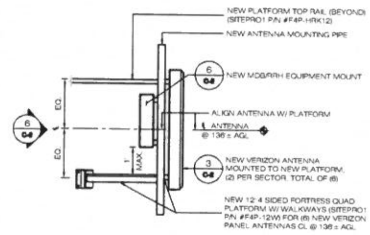
SHEET TITLE:
VERIZON EQUIPMENT PLAN & DETAILS

SHEET NUMBER:
C-1

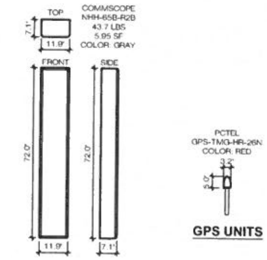
ANTENNA SOCKS TO BE PROVIDED ON ALL PROPOSED ANTENNAS



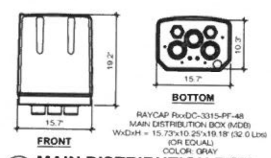
1 ANTENNA PLAN
C-2 SCALE: ½" = 1'-0"



2 ANTENNA MOUNTING DETAIL
C-2 SCALE: ½" = 1'-0"

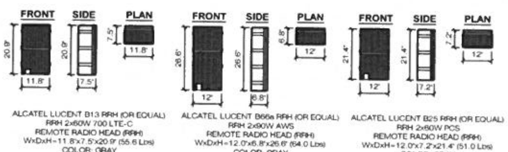


3 ANTENNA DETAIL
C-2 SCALE: ½" = 1'-0"



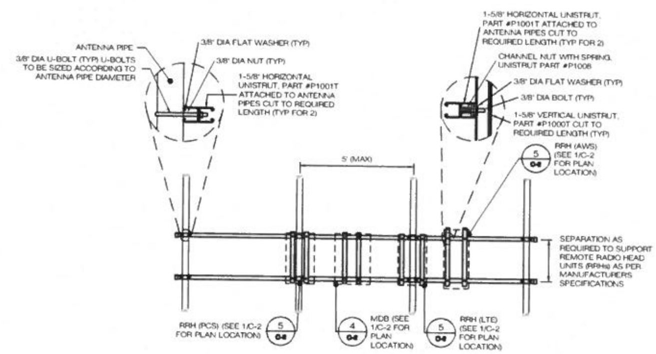
4 MAIN DISTRIBUTION BOX
C-2 SCALE: 1" = 1'-0"

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



NOTES:
1. DIMENSIONS SUBJECT TO CHANGE BASED UPON AVAILABILITY AT TIME OF CONSTRUCTION.
2. MANUFACTURERS 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.)

5 RRH EQUIPMENT
C-2 SCALE: ½" = 1'-0"



NOTES:
1. ALL EXPOSED UNISTRUT ENDS TO BE CAPPED WITH UNISTRUT CAP (MODEL #P2860-10)
2. ONLY 1-5/8" 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 ANTENNA MAST.

6 MDB/RRH EQUIPMENT ANTENNA MOUNT
C-2 SCALE: ½" = 1'-0"

HOMELAND TOWERS, LLC
9 HARMONY STREET
2nd FLOOR
DANBURY, CT 06810
(203) 297-6345

verizon
4 CENTEROCK ROAD
WEST NYACK, NY 10994

APT ENGINEERING
3 SADDLEBROOK DRIVE
KILLINGWORTH, CT 06419
PHONE: (860)-663-1697
FAX: (860)-663-0935
WWW.ALLPOINTSTECH.COM

PERMITTING DOCUMENTS

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11	09/17/19	ECB COMMENTS: RCB

DESIGN PROFESSIONALS OF RECORD

PROF: SCOTT M. CHASSE P.E.
COMP: APT ENGINEERING
ADD: 3 SADDLEBROOK DRIVE
KILLINGWORTH, CT 06419

DEVELOPER: HOMELAND TOWERS, LLC
ADDRESS: 9 HARMONY STREET
2ND FLOOR
DANBURY, CT 06810

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HOMELAND TOWERS
LAKE CASSE

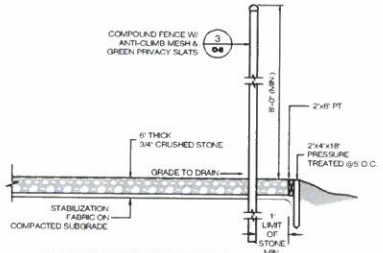
SITE ADDRESS: 254 CROTON FALLS ROAD CARMEL, NY 10541

APT FILING NUMBER: NY283550

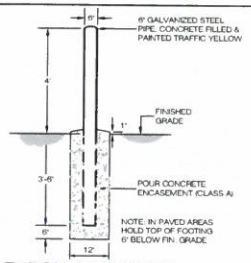
DATE: 07/05/18 DRAWN BY: CSH
CHECKED BY: RCB

SHEET TITLE:
VERIZON ANTENNA PLAN & DETAILS

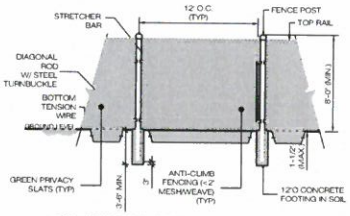
SHEET NUMBER:
C-2



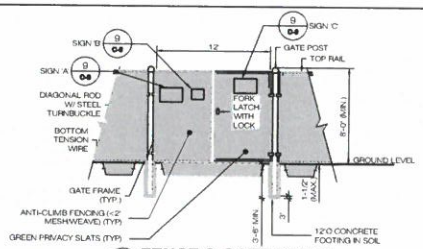
1 COMPOUND DETAIL
C-3 SCALE : N.T.S.



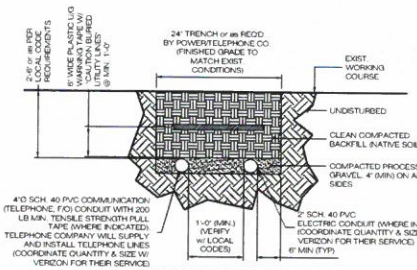
2 BOLLARD DETAIL
C-3 SCALE : N.T.S.



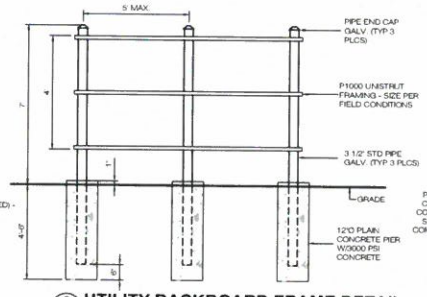
3 CHAIN-LINK FENCING DETAIL
C-3 SCALE : N.T.S.



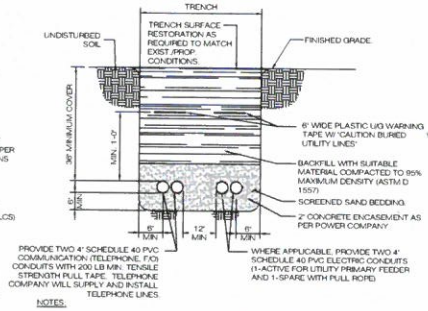
4 FENCE & GATE DETAIL
C-3 SCALE : N.T.S.



5 SECONDARY TRENCH DETAIL
C-3 SCALE : N.T.S.



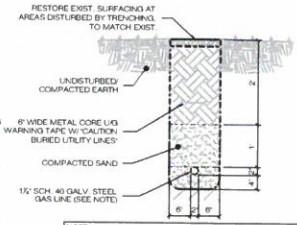
6 UTILITY BACKBOARD FRAME DETAIL
C-3 SCALE : N.T.S.



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

7 PRIMARY UTILITY TRENCH
C-3 SCALE : N.T.S.



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.

8 PROPANE GAS TRENCH
C-3 SCALE : N.T.S.

(WHITE METAL SIGN W/ BLACK LETTERING)

SIGN 'A'

(WHITE METAL SIGN W/ BLACK LETTERING)

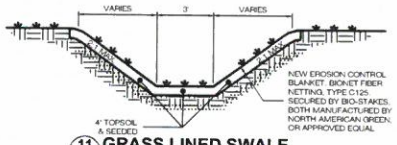
SIGN 'B'

(WHITE SIGN W/ BLACK & WHITE LOGO & RED LETTERING)

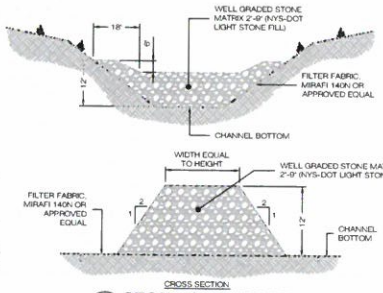
SIGN 'C'

10 TYPICAL SIGNAGE
C-3 SCALE : N.T.S.

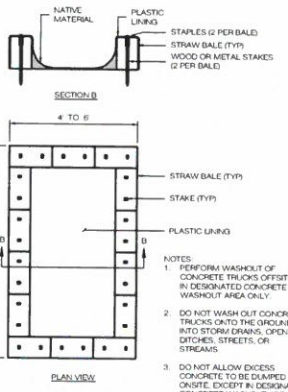
NOTE: AFTER CONSTRUCTION IS COMPLETE AND THE PROPOSED SWALE, STONE CHECK DAMS AND THE STONED BERM LEVEL SPREADER ARE STABLE, INSPECTION OF THESE WILL BE PERFORMED ANNUALLY FOR DAMAGE AND DETERIORATION. DAMAGES WILL BE REPAIRED IMMEDIATELY. REMOVE SEDIMENT AND MAKES REPAIRS AS NECESSARY.



11 GRASS LINED SWALE
C-3 SCALE : N.T.S.



12 STONE CHECK DAM
C-3 SCALE : N.T.S.



NOTES:

1. PERFORM WASHOUT OF CONCRETE TRUCKS OFFSITE OR IN DESIGNATED CONCRETE WASHOUT AREA ONLY.
2. DO NOT WASH OUT CONCRETE TRUCKS ONTO THE GROUND, OR INTO STORM DRAINS, OPEN DITCHES, STREETS, OR STREAMS.
3. DO NOT ALLOW EXCESS CONCRETE TO BE DUMPED ONSITE, EXCEPT IN DESIGNATED CONCRETE WASHOUT AREA.

13 CONCRETE WASHOUT DETAIL
C-3 SCALE : N.T.S.

HOMELAND TOWERS, LLC
9 HARMONY STREET
2ND FLOOR
DANBURY, CT 06810
(203) 297-6345

verizon
4 CENTEROCK ROAD
WEST NYACK, NY 10994

APT ENGINEERING
3 BADDLEBROOK DRIVE, KILLINGWORTH, CT 06419
PHONE: (860) 663-1697
FAX: (860) 663-0935
WWW.APTENGINEER.COM

PERMITTING DOCUMENTS

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11	09/17/19	ECB COMMENTS: RCB

DESIGN PROFESSIONALS OF RECORD

PROF: SCOTT M. CHASSE P.E.
COMP: APT ENGINEERING
ADD: 3 BADDLEBROOK DRIVE KILLINGWORTH, CT 06419

DEVELOPER: HOMELAND TOWERS, LLC
ADDRESS: 9 HARMONY STREET 2ND FLOOR DANBURY, CT 06810

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HOMELAND TOWERS
LAKE CASSE

SITE ADDRESS: 254 CROTON FALLS ROAD, CARMEL, NY 10541

APT FILING NUMBER: NY283550

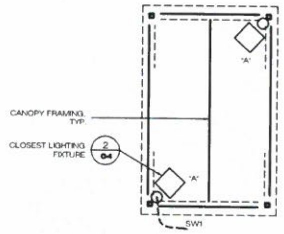
DATE: 07/05/18 | DRAWN BY: CSH | CHECKED BY: RCB

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 #WPLEDFC52NW

NOTE:
1. LIGHTING TO BE MOUNTED BELOW CANOPY. BOTTOM OF LIGHT FIXTURE AT APPROXIMATELY 9 ± AGL.

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

WPLEDFC52NW

RAB Outdoor

Project: | Type:

Prepared By: | Date:

LED 52W Wallpacks. 3 cutoff options. Patent Pending thermal management system. 100,000 hour L70 lifespan. 5-year, no-compromise warranty.

Color: White | Weight: 17.6 lbs

Driver Info		LED Info	
Type:	Constant Current	Watts:	52W
120V:	0.51A	Color Temp:	4000K (Neutral)
208V:	0.33A	Color Accuracy:	72 CRI
240V:	0.28A	L70 Lifespan:	100,000
277V:	0.24A	Lumens:	7,258
Input Watts:	56W	Efficacy:	130 LPW
Efficiency:	93%		

Technical Specifications

Listings

UL Listing: Suitable for wet locations

DLC Listed: This product is listed by Design Lights Consortium (DLC) as an ultra-efficient premium product that qualifies for the highest tier of rebates from DLC Member Utilities. DLC Product Code: PXZ2L98K

IESNA LM-79 & IESNA LM-80 Testing: RAB LED luminaires and LED components have been tested by an independent laboratory in accordance with IESNA LM-79 and LM-80.

Electrical

THD: 6.19% at 120V, 7.00% at 277V

Power Factor: 99.2% at 120V, 97.3% at 277V

Driver: Constant Current, 720mA, Class 2, 100 - 277V, 50 - 60 Hz, 100 - 277VAC .5 Amps

Surge Protection: 6kV

LED Characteristics

Lifespan: 100,000-hour LED lifespan based on IES LM-80 results and TM-21 calculations

LEDs: Two (2) multi-chip, high-output, long-life LEDs

Color Consistency: 3-step MacAdam Ellipse binning to achieve consistent fixture-to-fixture color

Color Stability: LED color temperature is warranted to shift no more than 200K in CCT over a 5 year period

Color Uniformity: RAB's range of CCT (Correlated Color Temperature) follows the guidelines of the American National Standard for Specifications for the Chromaticity of Solid State Lighting (SSL) Products, ANSI C78.377-2017

Construction

Ambient Temperature: Suitable For use in 40°C (104°F)

Cold Weather Starting: Minimum starting temperature is -40°C (-40°F)

Housing: Precision die cast aluminum housing, lens frame

Mounting: Die-cast aluminum wall bracket with (5) 1/2" conduit openings with plugs. Two-piece bracket with tether for ease of installation and wiring

Arm: Die-cast aluminum with wiring access plate

Cutoff: Full cutoff (0°)

Reflector: Specular vacuum-metallized polycarbonate

Gaskets: High temperature silicone

Lens: Tempered glass

Finish: Formulated for high-durability and long lasting color

Green Technology: Mercury and UV-free. RoHS compliant components

Other

Warranty: RAB warrants that our LED products will be free from defects in materials and workmanship for a period of five (5) years from the date of delivery to the end user, including coverage of light output, color stability, driver performance and fixture finish. RAB's warranty is subject to all terms and conditions found at

Patents: The WPLED design is protected by patents in the U.S. Pat D663,377, Canada Pat. 142252, China Pat. ZL201130358930.8, and Mexico Pat. 36921 and pending patent in TW

Replacement: Replaces 250W HID

Need help? Tech help line: (888) RAB-1000 Email: sales@rablighting.com Website: www.rablighting.com
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WPLEDFC52NW

RAB | Outdoor

Technical Specifications (continued)

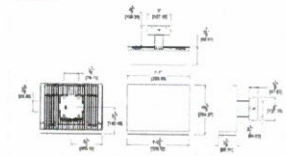
Other

Buy American Act Compliance: RAB values USA manufacturing! Upon request, RAB may be able to manufacture this product to be compliant with the Buy American Act (BAA). Please contact customer service to request a quote for the product to be made BAA compliant.

Optical

BUG Rating: B1 U0 G1

Dimensions



Features

- High performance LED light engine
- Maintains 70% of initial lumens at 100,000 hours
- Weatherproof high temperature silicone gaskets
- Superior heat sinking with die cast aluminum housing and external fins
- Replaces 250W MH
- Traditional wallpack look from the front
- 3 cutoff options
- 5-Year, No-Compromise Warranty

Ordering Matrix

Family	Cutoff	Wattage	Color Temp	Finish	Driver Options	Options	Other Options
WPLED	FC	52	N	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	Blank = No Option /PCS = 120V Swivel Photocell /PCS2 = 277V Swivel Photocell /PCS4 = 480V Swivel Photocell /LC = Lightcloud	Blank = Standard USA = BAA Compliant

Need help? Tech help line: (888) RAB-1000 Email: sales@rablighting.com Website: www.rablighting.com
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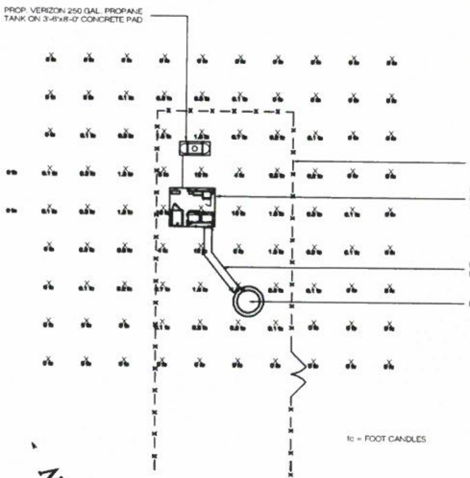
2 LIGHTING CUTSHEETS
C-4 SCALE : NONE



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

HOMELAND TOWERS, LLC
9 HARMONY STREET
2nd FLOOR
DANBURY, CT 06810
(203) 297-6345

verizon
4 CENTEROCK ROAD
WEST NYACK, NY 10994

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COMP: APT ENGINEERING
ADD: 3 SADDLEBROOK DRIVE KILLINGWORTH, CT 06419

DEVELOPER: HOMELAND TOWERS, LLC
ADDRESS: 9 HARMONY STREET 2ND FLOOR DANBURY, CT 06810

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LAKE CASSE

SITE ADDRESS: 254 CROTON FALLS ROAD CARMEL, NY 10541

APT FILING NUMBER: NY283550

DATE: 07/05/18 | DRAWN BY: CSH
CHECKED BY: RCB

SHEET TITLE:

VERIZON EQUIPMENT LIGHTING DETAILS

SHEET NUMBER:

C-4

STATE OF NEW YORK SCOTT M. CHASSE PROFESSIONAL ENGINEER

ROBERT LAGA
Chairman

NICHOLAS FANNIN
Vice-Chairman

ROSE TROMBETTA
Secretary

TOWN OF CARMEL
ENVIRONMENTAL CONSERVATION BOARD

60 McAlpin Avenue
Mahopac, New York 10541
Tel. (845) 628-1500 - Ext. 190
www.ci.carmel.ny.us

BOARD MEMBERS

Edward Barnett
Vincent Turano
John Starace

APPLICATION FOR WETLAND PERMIT OR LETTER OF PERMISSION

Name of Applicant: RON CARPINO | The Waterclub at Lake Mahopac Condo
62206 VILLA AT THE WOODS
Address of Applicant: PEEKSKILL, NY 10566 **Email:** V [illegible]

Telephone# [illegible] **Name and Address of Owner if different from Applicant:**

Property Address: 141 EAST LAKE BLVD **Tax Map #** 76.30-1-21,3
Agency Submitting Application if Applicable:
Location of Wetland: Lake Mahopac
Size of Work Section & Specific Location: WATERFRONT WALL
Will Project Utilize State Owned Lands? If Yes, Specify: NO

Type and extent of work (feet of new channel, yards of material to be removed, draining, dredging, filling, etc). A brief description of the regulated activity (attach supporting details).
REPLACE EXISTING CONCRETE WALL | BULKHEAD WITH NEW VINYL SHEET PILING WALL & CONCRETE AS PER PLANS

Proposed Start Date: 04/2020 **Anticipated Completion Date:** 05/2020 **Fee Paid $** 225.00

****

CERTIFICATION

I hereby affirm under penalty of perjury that information provided on this form is true to the best of my knowledge and belief, false statements made herein are punishable as a Class A misdemeanor pursuant to Section 210.45 of the Penal Law. As a condition to the issuance of a permit, the applicant accepts full legal responsibility for all damage, direct or indirect, or whatever nature, and by whomever suffered, arising out of the project described here-in and agrees to indemnify and save harmless the Town of Carmel from suits, actions, damages and costs of every name and description resulting from the said project.

SIGNATURE

11/4/19
DATE

Short Environmental Assessment Form
Part 1 - Project Information

Instructions for Completing

Part 1 - Project Information. The applicant or project sponsor is responsible for the completion of Part 1. Responses become part of the application for approval or funding, are subject to public review, and may be subject to further verification. Complete Part 1 based on information currently available. If additional research or investigation would be needed to fully respond to any item, please answer as thoroughly as possible based on current information.

Complete all items in Part 1. You may also provide any additional information which you believe will be needed by or useful to the lead agency; attach additional pages as necessary to supplement any item.

Part 1 - Project and Sponsor Information

Name of Action or Project: The Waterclub At Lake Mahopac Condo

Project Location (describe, and attach a location map): BULKHEAD WALL REPLACEMENT

Brief Description of Proposed Action: 141 EAST LAKE BLVD, MAHOPAC, NY 10541

REPLACE BROKEN CONCRETE BULKHEAD WITH NEW VINYL SHEET PILING WITH CONCRETE FILLED CORES AS PER PLANS.

Name of ~~Applicant~~ or Sponsor: PAUL REVANS, PE.

Telephone:

E-Mail:

Address: 60 SOMERSTON RD

City/PO: YORKTOWN

State: NY

Zip Code: 10598

	NO	YES
1. Does the proposed action only involve the legislative adoption of a plan, local law, ordinance, administrative rule, or regulation? If Yes, attach a narrative description of the intent of the proposed action and the environmental resources that may be affected in the municipality and proceed to Part 2. If no, continue to question 2.	☑	☐
2. Does the proposed action require a permit, approval or funding from any other governmental Agency? If Yes, list agency(s) name and permit or approval:	☑	☐

3.a. Total acreage of the site of the proposed action? N/A acres

b. Total acreage to be physically disturbed? N/A acres

c. Total acreage (project site and any contiguous properties) owned or controlled by the applicant or project sponsor? N/A acres

4. Check all land uses that occur on, adjoining and near the proposed action.

☐ Urban ☐ Rural (non-agriculture) ☐ Industrial ☐ Commercial ☑ Residential (suburban)

☐ Forest ☐ Agriculture ☑ Aquatic ☐ Other (specify): _____

☐ Parkland

	NO	YES	N/A
5. Is the proposed action,			
a. A permitted use under the zoning regulations?	☐	☑	☐
b. Consistent with the adopted comprehensive plan?	☐	☐	☑
6. Is the proposed action consistent with the predominant character of the existing built or natural landscape?	NO ☐	YES ☑	
7. Is the site of the proposed action located in, or does it adjoin, a state listed Critical Environmental Area? If Yes, identify: _____	NO ☑	YES ☐	
8. a. Will the proposed action result in a substantial increase in traffic above present levels?	NO ☑	YES ☐	
b. Are public transportation service(s) available at or near the site of the proposed action?	☑	☐	
c. Are any pedestrian accommodations or bicycle routes available on or near site of the proposed action?	☑	☐	
9. Does the proposed action meet or exceed the state energy code requirements? If the proposed action will exceed requirements, describe design features and technologies: _____	NO ☑	YES ☐	N/A
10. Will the proposed action connect to an existing public/private water supply? If No, describe method for providing potable water: _____	NO ☑	YES ☐	
11. Will the proposed action connect to existing wastewater utilities? If No, describe method for providing wastewater treatment: _____	NO ☑	YES ☐	
12. a. Does the site contain a structure that is listed on either the State or National Register of Historic Places?	NO ☑	YES ☐	
b. Is the proposed action located in an archeological sensitive area?	☑	☐	
13. a. Does any portion of the site of the proposed action, or lands adjoining the proposed action, contain wetlands or other waterbodies regulated by a federal, state or local agency?	NO ☐	YES ☑	
b. Would the proposed action physically alter, or encroach into, any existing wetland or waterbody? If Yes, identify the wetland or waterbody and extent of alterations in square feet or acres: RESTORATION & REPLACEMENT OF EXISTING BULKHEAD & RESTORATION OF EXISTING RECREATIONAL AREA	☑	☐	
14. Identify the typical habitat types that occur on, or are likely to be found on the project site. Check all that apply: ☑ Shoreline ☐ Forest ☐ Agricultural/grasslands ☐ Early mid-successional ☐ Wetland ☐ Urban ☐ Suburban			
15. Does the site of the proposed action contain any species of animal, or associated habitats, listed by the State or Federal government as threatened or endangered?	NO ☑	YES ☐	
16. Is the project site located in the 100 year flood plain?	NO ☐	YES ☐	
17. Will the proposed action create storm water discharge, either from point or non-point sources? If Yes,	NO	YES	
a. Will storm water discharges flow to adjacent properties? ☐ NO ☐ YES	☑	☐	
b. Will storm water discharges be directed to established conveyance systems (runoff and storm drains)? If Yes, briefly describe: ☐ NO ☐ YES _____			

	NO	YES
18. Does the proposed action include construction or other activities that result in the impoundment of water or other liquids (e.g. retention pond, waste lagoon, dam)? If Yes, explain purpose and size:	☑	☐
19. Has the site of the proposed action or an adjoining property been the location of an active or closed solid waste management facility? If Yes, describe:	☑	☐
20. Has the site of the proposed action or an adjoining property been the subject of remediation (ongoing or completed) for hazardous waste? If Yes, describe:	☑	☐

I AFFIRM THAT THE INFORMATION PROVIDED ABOVE IS TRUE AND ACCURATE TO THE BEST OF MY KNOWLEDGE

Applicant/sponsor name: PAUL REVANS, PE Date: 10/17/19

Signature: Paul Revans

Environmental Protection

Vincent Sapienza
Commissioner

Paul V. Rush, P.E.
Deputy Commissioner
Bureau of Water Supply
prush@dep.nyc.gov

465 Columbus Avenue
Valhalla, NY 10595
T: (845) 340-7800
F: (845) 334-7175

September 30, 2019

Paul Revans, P.E.
Revans Design PE PC
60 Somerstown Road
Yorktown Heights, New York 10598

Via email: rdpepc@gmail.com

Re: Water Club Beach Restoration – Wall Replacement
141 East Lake Blvd
Mahopac, New York 10541
Tax Map # 76.30-1-3
DEP Log # 2019-AM-0545-OT.1
Amawalk Reservoir Drainage Basin

Dear Mr. Revans:

The New York City Department of Environmental Protection (DEP) reviewed the latest submission for the above captioned project received on September 27, 2019. Based on our review and pursuant to regulatory thresholds detailed in Section 18-39(b)(3) of the *Rules and Regulations for the Protection from Contamination, Degradation and Pollution of the New York City Water Supply and its Sources (Watershed Regulations)*, DEP review and approval of a Stormwater Pollution Prevention Plan (SWPPP) is not required for the project. **This project may still require regulatory approval from other agencies.** This Determination is based on the following plans prepared by Revans Design PE PC titled:

1. Drawing N-001: Site Plan, dated February 12, 2019.

2. Drawing S-001: Structural Plan, dated February 12, 2019.

3. Drawing S-002: Structural Details, dated February 12, 2019.

4. Drawing S-003: Details, dated February 12, 2019.

If you have any questions, I may be reached at (914)749-5360.

Sincerely,

Jason Coppola, P.E.
Civil Engineer II
EOH, Regulatory Review & Engineering
Watershed Protection Programs

c: Ron Carpino, manager, waterclubron@gmail.com
Rose Trombetta, (T), Carmel Planning, rtrombetta@ci.carmel.ny.us
Richard Franzetti, P.E., (T), Carmel Engineering, rjf@ci.carmel.ny.us
Natalie S. Browne, NYSDEC, natalie.browne@dec.ny.gov

Gmail

PAUL REVANS <rdpepc@gmail.com>

141 East Lake Blvd

4 messages

PAUL REVANS <rdpepc@gmail.com> Fri, Oct 4, 2019 at 2:53 PM
To: natalie.browne@dec.ny.gov

Good afternoon.

My name is Paul Revans, PE. I am the engineer for the building located at 141 East Lake Blvd, Mahopac, Putnam County. We need to repair/replace an existing wall. You were copied on the email from Mr Jason Coppola along with DEP approval. I am attaching the plans which show what we intend to complete. Please advise me as to what forms and fees we need to submit to the DEC in order to get your approval. Thank you very much for your attention to this matter.

Respectfully,

Paul Revans, PE

m: 914-222-0397

email: rdpepc@gmail.com

NYS PE 091827

CT PE 0030989

PA PE 84664

NYC SPECIAL INSPECTION AGENCY 4617

NYS ASBESTOS INVESTIGATOR LIC# 02-09146

NYC DEP CERTIFIED ASBESTOS INVESTIGATOR LIC # 120503

NYS DOL ASBESTOS CERTIFICATE # 02-09146

NOTARY PUBLIC QUALIFIED IN WESTCHESTER COUNTY

BEACH PROJ DEP SUBMITTAL.pdf
11214K

Browne, Natalie S (DEC) <natalie.browne@dec.ny.gov> Mon, Oct 7, 2019 at 8:02 AM
To: PAUL REVANS <rdpepc@gmail.com>

Paul,

You do not need my approval. If the project involves over 5000 square feet of soil disturbance, the project will need coverage under DEC's stormwater construction permit.

Natalie Browne

Environmental Program Specialist

New York State Department of Environmental Conservation

100 Hillside Avenue, Suite 1W, White Plains, NY 10603

P: 914-803-8136 | F: 914-428-0323 | natalie.browne@dec.ny.gov

www.dec.ny.gov | | |

From: PAUL REVANS <rdpepc@gmail.com>
Sent: Friday, October 04, 2019 2:53 PM
To: Browne, Natalie S (DEC) <natalie.browne@dec.ny.gov>
Subject: 141 East Lake Blvd

ATTENTION: This email came from an external source. Do not open attachments or click on links from unknown senders or unexpected emails.

[Quoted text hidden]

PAUL REVANS <rdpepc@gmail.com> Mon, Oct 7, 2019 at 8:04 AM
To: "Browne, Natalie S (DEC)" <natalie.browne@dec.ny.gov>

Is there something in writing that states that? I need to present to the local ECB. Thank you.
[Quoted text hidden]

2 attachments

image002.jpg
1K

image001.jpg
1K

Browne, Natalie S (DEC) <natalie.browne@dec.ny.gov> Mon, Oct 7, 2019 at 8:08 AM
To: PAUL REVANS <rdpepc@gmail.com>

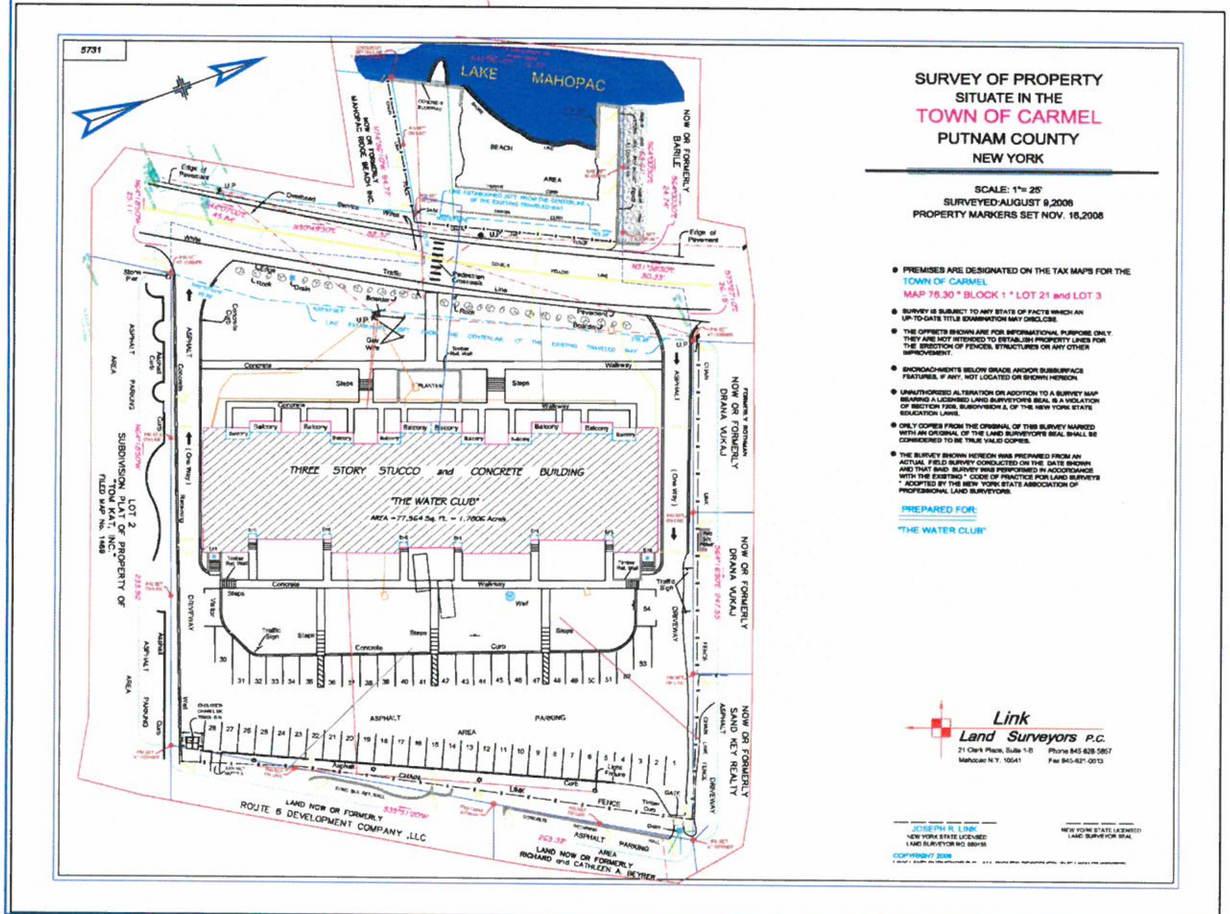
Its in the Environmental Conservation Law and the permit:

http://www.dec.ny.gov/chemical/43133.html

[Quoted text hidden]

"THE WATERCLUB AT LAKE MAHOPAC CONDOMINIUM"
BEACH RESTORATION PROJECT
141 EAST LAKE BLVD
MAHOPAC, NY 10541

PROPOSED AREA OF WORK



DEPARTMENT OF BUILDINGS NOTES

TENANT PROTECTION PLAN

SPECIAL PRECAUTION SHALL BE TAKEN BY THE CONTRACTOR SO THAT EQUIPMENT ON THIS APPLICATION AND IT'S INSTALLATION WILL NOT AFFECT THE FOLLOWING:

A) TENANT EGRESS TO AND FROM THE BUILDING.
B) FIRE SAFETY, OR CREATE A FIRE HAZZARD.
C) STRUCTURAL SAFETY OF THE BUILDING.
D) ACCUMULATION OF DUST. THE CONTRACTOR SHALL LEAVE THE WORKSITE BROOM CLEAN EACH DAY. IN THE EVENT THAT ASBESTOS IS FOUND ON THE JOBSITE, IT'S REMOVAL SHALL TAKE PLACE IN ACCORDANCE WITH ALL APPLICABLE REGULATIONS OF O.S.H.A. SECTION 1901.1, INCLUDING STATE AND FEDERAL DUMPING GROUNDS.
E) THERE SHALL BE NO CREATION OF NOISE OUTSIDE THE NORMAL HOURS OF 8 AM TO 5 PM.
F) CONFINED TO THE BOILER ROOM & WILL NOT CREATE DUST, DIRT OR OTHER INCONVENIENCES TO APARTMENT UNITS WITHIN THE BUILDING.
G) INVOLVE INTERRUPTION OF HEATING, WATER OR ELECTRIC SERVICES TO OTHER TENANTS OF THE BUILDING.

PLAN NOTE

"THIS PLAN IS APPROVED ONLY FOR THE WORK INDICATED ON THE APPLICATION SPECIFICATION SHEET. ALL OTHER MATTERS SHOWN ARE NOT TO BE RELIED UPON, OR TO BE CONSIDERED AS EITHER BEING APPROVED OR IN ACCORDANCE WITH APPLICABLE CODES."

PLOT PLAN

NOT TO SCALE

SECTION : 76.30
BLOCK : 1
LOT : 21, 3

INDEX		
SHEET	NAME	DESCRIPTION
1	N-001.00	NOTES
2	S-001.00	STRUCTURAL DETAILS
3	S-002.00	STRUCTURAL DETAILS
4	S-003.00	SHEET PILING DETAILS

EVANS DESIGN PE PC

DESCRIPTION: BEACH RESTORATION PROJECT

CONTRACTOR: TBD

OWNER: WATER CLUB AT LAKE MAHOPAC CONDOMINIUM
141 EAST LAKE BLVD, UNIT A2
MAHOPAC, NY 10541

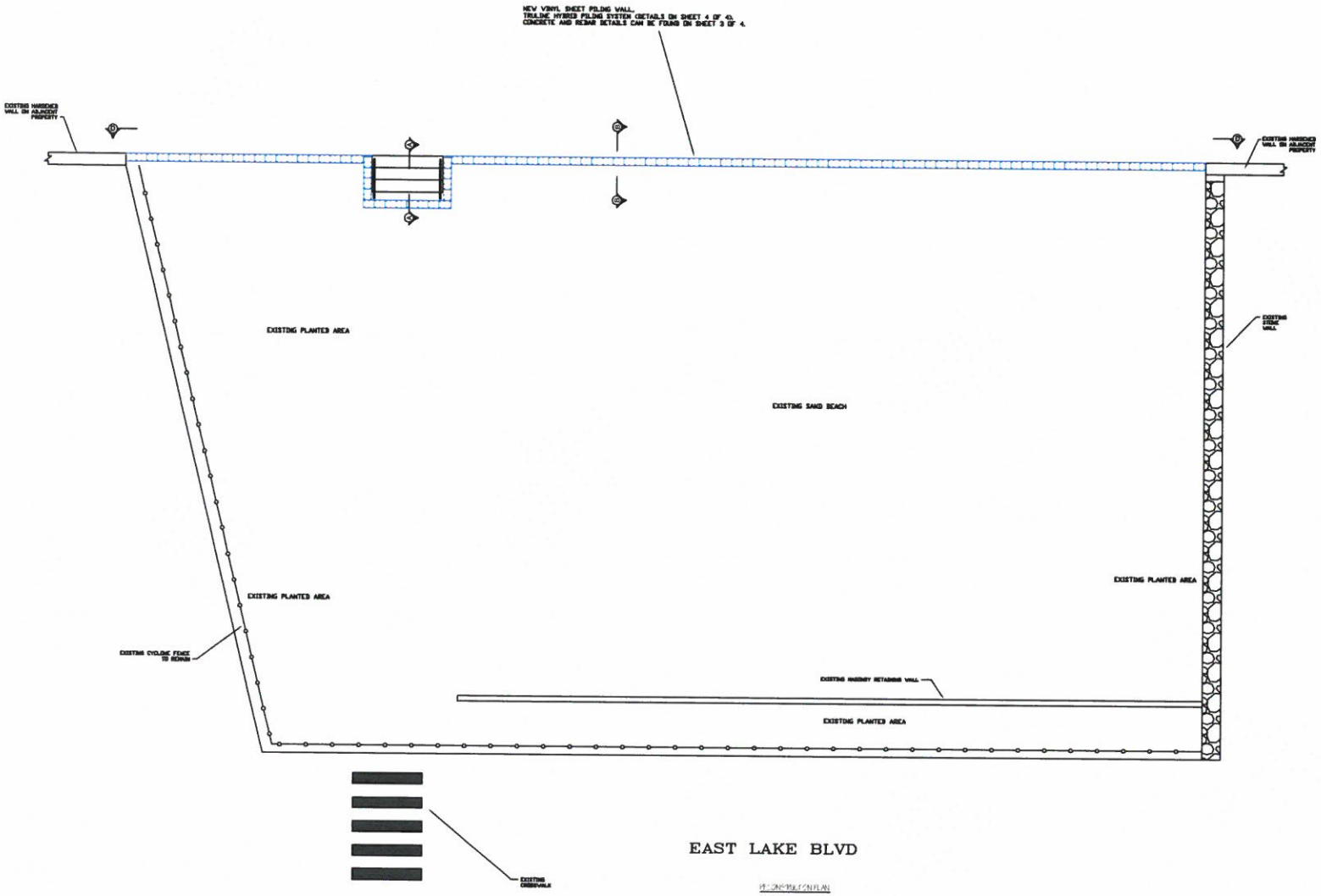
PROJECT LOCATION:
141 EAST LAKE BLVD
MAHOPAC, NY 10541
(BEACH FRONT)

SITE PLAN

DATE :	8/12/19
PROJECT REF#	
DRAWN BY:	P.R.
CHECKED BY:	R.C.

N-001.00

SHEET 1 OF 4



PLAN

R.EVANS DESIGN PE PC

DESCRIPTION: BEACH RESTORATION PROJECT

CONTRACTOR: TBD

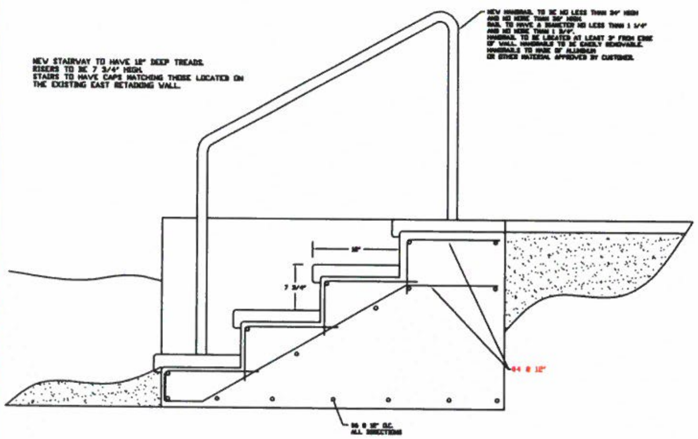
OWNER: WATER CLUB AT LAKE MAHOPAC CONDOMINIUM
141 EAST LAKE BLVD. UNIT A2
MAHOPAC, NY 10541

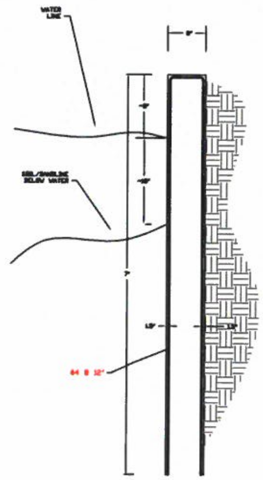
PROJECT LOCATION:
141 EAST LAKE BLVD
MAHOPAC, NY 10541
(BEACH FRONT)

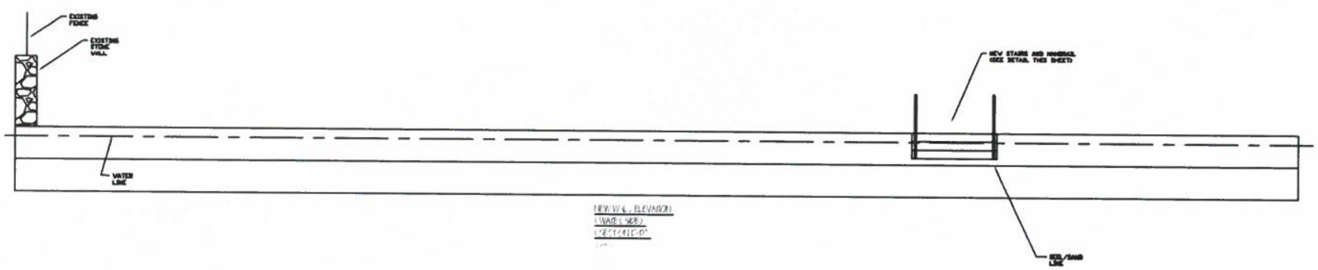
STRUCTURAL PLAN

DATE:	2/12/19
PROJECT REF#:	
DRAWN BY:	P.R.
CHECKED BY:	R.E.
	S - 001.00

SHEET 2 OF 4







NOTES:

1. CONCRETE SHALL BE AIR ENTRAINED MIX WITH COMPRESSIVE STRENGTH OF 5000 PSI (+25%) AFTER 28 DAYS.
2. REINFORCEMENT BARS SHALL BE DEFORMED AND CONFORMING TO ASTM A61 GRADE (60 KSI YIELD).
3. ALL REINFORCING BARS SHALL BE HOT DIP GALVANIZED OR 3M COATED.
4. NO CONCRETE SHALL BE PLACED UNTIL FORM LOCATION AND REINFORCEMENT IS VERIFIED BY THE ENGINEER OF RECORD.
5. IF AT ANY TIME DURING THE PROGRESS OF THE WORK, THE SURROUNDING TEMPERATURE IS 40 DEGREES F OR LESS, OR WITHIN 24 HOURS IS EXPECTED TO DROP THAT LOW, THE WATERS, THE AGGREGATE, OR BOTH SHOULD BE HEATED SO THAT THE TEMPERAURE OF THE CONCRETE IS NOT LESS THAN 60 DEGREES F, NOT MORE THAN 80 DEGREES F.
6. NO CONCRETE SHALL BE PLACED WHEN THE OUTSIDE TEMPERATURE IS BELOW 32 DEGREES F, UNLESS THE WORK IS PROTECTED AND HEAT IS PROVIDED TO RAISE THE TEMPERATURE TO 50 DEGREES F. SAID TEMPERATURE SHALL BE MAINTAINED FOR AT LEAST THREE DAYS.
7. THE CONTRACTOR SHALL PROVIDE THE CONCRETE DESIGN MIX AT LEAST 7 DAYS PRIOR TO COMMENCEMENT OF WORK. SUBMISSION SHALL BE "ORIGINAL WITH P.E. SIGNATURE AND SEAL." FILE COPIES NOT ACCEPTABLE.
8. REINFORCING BAR SHOP DRAWINGS PROVIDED BY CONTRACTOR SHALL HAVE ENGINEER'S FINAL APPROVAL PRIOR TO FIELD INSTALLATION.
9. CONTRACTOR SHALL PROVIDE (1) TEST CYLINDER FOR EACH DIFFERENT POUR TO CONFIRM 5000 PSI CONCRETE OR BETTER, AND TEST REPORT SHALL BE FURNISHED TO ENGINEER OF RECORD.

REINFORCEMENT DETAILS

FEVANS DESIGN PE PC

DESCRIPTION: BEACH RESTORATION PROJECT

CONTRACTOR: TBD

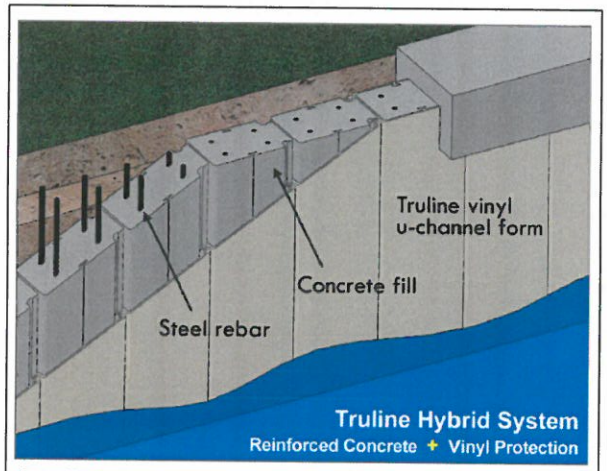
OWNER: WATER CLUB AT LAKE MAHOPAC CONDOMINIUM
141 EAST LAKE BLVD, UNIT A2
MAHOPAC, NY 10541

PROJECT LOCATION:
141 EAST LAKE BLVD
MAHOPAC, NY 10541
(BEACH FRONT)

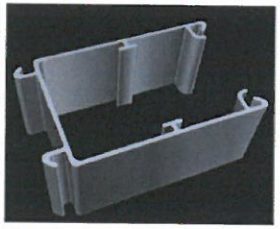
STRUCTURAL DETAILS

DATE: 2/12/19
PROJECT REF#
DRAWN BY: P.R.
CHECKED BY: R.C.
S -002.0 0

SHEET 3 OF 4

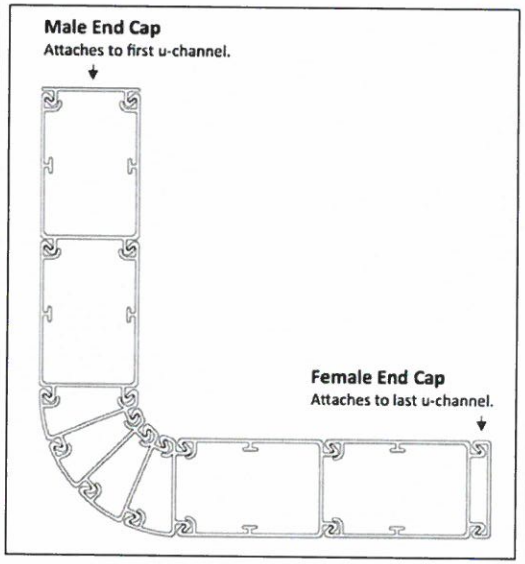


Install: Anchor, cantilever or pin-pile



Primary U-channel Part

12" wide x 8" deep x custom length (304.8mm x 203.2mm)



CONCRETE FILLED SHEET PILING
TRULINE HYBRID PILING SYSTEM

REVANS DESIGN PE P.C.

DESCRIPTION: BEACH RESTORATION PROJECT

CONTRACTOR: TBD

OWNER: WATER CLUB AT LAKE MAHOPAC CONDOMINIUM
141 EAST LAKE BLVD, UNIT AE
MAHOPAC, NY 10541

PROJECT LOCATION:
141 EAST LAKE BLVD
MAHOPAC, NY 10541
(BEACH FRONT)

DETAILS

DATE: 8/12/19
PROJECT REF#:
DRAWN BY: P.R.
CHECKED BY: R.C.
S -003.0 0

SHEET
4 OF 4