AGENDA PACKET

DECEMBER 15, 2020 MEETING

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AAB memo, dated December 9 & 10, 2020		**180**
ASKILDSEN RESIDENCE, 82 MILL RIVER ROAD, SOUTH SALEM	**Cal #35-20WP**	
No new materials		
SCHWARTZ RESIDENCE, 66 TWIN LAKES ROAD, SOUTH SALEM	**Cal #57-20WP**	**Cal #09-20SW**
No new materials		
OAKRIDGE COMMONS, 450 OAKRIDGE COMMON, SOUTH SALEM- Day Care	**Cal #08-17PB**	
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WILDER BALTER PARTNERS, NY STATE ROUTE 22, GOLDENS BRIDGE	**Cal #10-15 PB**	**Cal #05-17SW**
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TOWN BOARD TO AMEND TOWN CODE SECTION 220-40		
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RIDGEFIELD, CT ZONING BOARD TO AMEND ITS TOWN CODE §8-7D – changes to the Zoning map		
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TOWN OF LEWISBORO
Westchester County, New York

Planning Board
79 Bouton Road
South Salem, New York 10590

Tel: (914) 763-5592
Fax: (914) 875-9148
Email: planning@lewisborogov.com

AGENDA

Tuesday, December 15, 2020 Meeting will start at 7:30 p.m. and end at or before 11:00 p.m.

Via Zoom videoconferencing and live streaming to Lewisboro TV YouTube channel

Join Zoom Meeting at https://zoom.us/j/98541138858?pwd=Y1VidHA1dXJjaXBTR0RTdFJjcUlFdz09
Meeting ID: 985 4113 8858 Passcode 515716
You may call in to the Zoom meeting at 1-929-205-6099 when prompted, enter 985 4113 8858

https://www.youtube.com/channel/UCNUNE5gXs5rnHcyR4l6dikA

I. DECISION

Cal #05-20PB
Venezia lot line change, 249 Kitchawan Road, South Salem, NY 10590, Sheet 45A, Block 09827, Lot 113 (237 Kitchawan LLC, owner of record), 237 Kitchawan Road Sheet 45A, Block 09827, Lot 122 (William Venezia, owner of record) and 0 Kitchawan Road Sheet 45A, Block 09827, Lot 124 (William Venezia, owner of record) - Application for a lot line change.

II. WETLAND VIOLATIONS

Cal #02-19WV, Cal #60-19WP, Cal #14-19SW
Kullman Residence, 12 Red Coat Lane, Waccabuc, NY 10597, Sheet 26, Block 11155, Lot 92 (Michael and Susan Kullman, owners of record)

Cal #01-20WV, Cal #12-20WP
Valencia Residence, 1196 Route 35, South Salem, NY 10590, Sheet 31, Block 10805, Lot 45 (Maria and Javier Valencia, owners of record)

III. PUBLIC HEARINGS

Cal #03-20PB, Cal #37-20WP
Gossett Brothers Nursery, 1202 Route 35, South Salem, NY 10590, Sheet 31 Block 10805 Lot 46 (Thomas Gossett for T. Gossett Revocable Trust – owner of record) - Application for Site Development Plan Approval and Wetland Activity Permit Approval for an existing nursery.

Cal #3-09PB
Verizon Wireless at Vista Fire Dept., 377 Smith Ridge Road, South Salem, NY 10590, Sheet 50, Block 9834, Lots 84, 88 & 94 (Vista Fire District, owner of record) - Application for Special Use Permit Renewal.

Cal #6-12PB
Verizon Wireless at Leon Levy Preserve, 1411 Route 35 South Salem, NY 10590, Sheet 40, Block 10263, Lot 62 (Town of Lewisboro, owner of record) - Application for Special Use Permit Renewal.

IV. WETLAND PERMIT REVIEW

Cal #35-20WP
Askildsen Residence, 82 Mill River Road, South Salem, NY 10590, Sheet 42 Block 10299 Lot 83 (Kenneth Askildsen, owner of record) – Application for demolition and construction of a single-family house.

V. SITE WALK REPORT

Cal #57-20WP, Cal #09-20SW
Schwartz Residence, 0 Twin Lakes Road, South Salem, NY 10590, Sheet 34B, Block 11831 Lot 35 (Michael Schwartz, owner of record) - Application for the construction of a one-bedroom house/studio.

VI. RELEASE OF LANDSCAPING BOND

Cal #08-17PB
Oakridge Commons, 450 Oakridge Common, South Salem, NY 10590, Sheet 49D, Block 9829, Lot 10 (Smith Ridge Associates, owner of record) – Release of bond for landscaping at day care center.

VII. EXTENSION OF TIME REQUESTS

Cal #10-15 PB, Cal #20-17WP, Cal #5-17SW
Wilder Balter Partners, NY State Route 22, Goldens Bridge, NY 10526, Sheet 5, Block 10776, Lots 19, 20 & 21 (Property Group Partners, LLC, owner of record) – Request for Extension of Wetland and Stormwater Permit Approvals.

Cal #10-17PB
Mercedes Benz of Goldens Bridge, 321 Main Street, Goldens Bridge, NY 10526, Sheet 4E, Block 11135, Lots 1, 2, 3, 4, 6 & 7 (Charisma Holding Corp., owner of record); Sheet 4E, Block 11135, Lot 5 (Spencemorg, LLC., owner of record), Sheet 4E, Block 11135, Lot 9 (Charles Monaco, owner of record) and Sheet 4E, Block 11137, Lot 42 (Robert Castelli, owner of record) – Application for Site Development Plan for additions to existing auto showroom and service buildings, additional parking spaces and construction of a parking garage.

VIII. DISCUSSION

Town Board to amend Town Code §220 – regulations for outdoor special events.

IX. CORRESPONDENCE

Ridgefield, CT to amend its Zoning Map.

X. MINUTES OF November 17, 2020

XI. NEXT MEETING DATE: January 19, 2021.

TOWN OF LEWISBORO
Westchester County, New York

Building Department
79 Bouton Road
South Salem, New York 10590

Tel: (914) 763-3060
Fax: (914) 875-9148
Email: jangiello@lewisborogov.com

November 16, 2020

Ms. Janet Andersen, Chair
Town of Lewisboro Planning Board

Re: Cal#05-20PB
Venezia, 249 Kitchawan Rd., sheet 045A, block 09827, lot 113, 237 Kitchawan Rd., sheet 045A, block 09827, lot 122 and No Number Kitchawan Rd., sheet 045A, block 09827, lot 124.

Dear Ms. Andersen and Members of the Board,

I have reviewed the integrated plot plan from Timothy L Cronin III, PE latest revision dated 10/27/2020 and the lot realignment from Rowan Land Surveying, PLLC dated 10/26, 2020.

I believe the lot line change depicted creates two zoning compliant lots.

Please do not hesitate to contact me with any questions.

Sincerely,

Joe Angiello
Building Inspector

STORMWATER PERMIT

TOWN OF LEWISBORO

Town Offices
79 Bouton Road, South Salem, New York 10590
Phone: (914) 763-3060
Fax: (914) 533-0097

Date Issued: August 13, 2020 Permit #: 14-19 S.W.

Permit is hereby issued to: Michael Kullman
12 Redcoat Lane

Description of Approved Activity: The subject property consists of ±2.19 acres and is located at 12 Redcoat Lane within the R-2A Zoning District. A Wetland Violation was issued on August 5, 2019, pertaining to the unauthorized construction of a detached garage and expansion of the existing driveway/parking court. The applicant has developed improvements and mitigation plans and has applied to the Planning Board for wetland and stormwater permits. The applicant appeared before the February 25, 2020 Planning Board Meeting where the project was deemed to be handled administratively. The applicant has prepared a Stormwater Pollution Prevention Plan (SWPPP) in accordance with Chapter 189-C of the Town Code.

Location of Proposed Activity: 12 Redcoat Lane

Sheet: 26 Block: 11155 Lot(s): 92

CONDITIONS:

1. The proposed activity is illustrated on the below-referenced plan, prepared by Bibbo Associates, LLP, dated June 22, 2020, which are hereby approved and are incorporated into this permit by reference:

   - Site Plan (SP-1)
   - Details (D-1)

2. The proposed activity is illustrated on the below-referenced plan, prepared by Johnsen Landscapes & Pools, dated June 16, 2020, which is hereby approved and is incorporated into this permit by reference:

   - Wetlands Planting Plan

3. Reference shall be made to the following documents:

   - Notice of Intent, dated June 24, 2020
   - Stormwater Pollution Prevention Plan Report, prepared by Bibbo Associates, LLP, dated February 4, 2020

4. All work shall be conducted in accordance with the plans and documents referenced herein.

5. Prior to the commencement of any site work, the limit of disturbance line shall be staked in the field by a Licensed Land Surveyor and all erosion and sediment controls shall be installed and inspected.

6. Prior to the commencement of any site work, the applicant shall provide proof of coverage under the New York State Department of Environmental Conservation (NYSDEC) SPDES General Permit for Stormwater Discharges from Construction Activity (GP-0-20-001).

7. The applicant shall contact the Town Engineer and Stormwater Management Officer (914-763-3060) 48 hours in advance of commencing work; all erosion controls specified on the approved plan shall be installed prior to the commencement of any site work.

8. The Town Engineer and/or Stormwater Management Officer shall be allowed to inspect the subject property during construction.

9. Prior to the issuance of a Certificate of Compliance, the applicant shall submit a letter from the Design Engineer certifying that all proposed site work and drainage facilities have been installed in accordance with the approved plan and are functioning properly.

10. Prior to the issuance of a Certificate of Compliance, an as-built survey shall be prepared to the satisfaction of the Town Engineer.

11. Prior to the issuance of a Certificate of Compliance, the applicant shall submit a Notice of Termination (NOT) to the satisfaction of the Town Engineer.

12. Following completion of all site work, a final site inspection shall be conducted by the Stormwater Management Officer and/or Town Engineer; please call 914-763-3060 to schedule an appointment.

13. The issuance of this permit does not necessarily authorize the commencement of site work. No site work shall commence until the conditions of this permit have been satisfied (the conditions required to be satisfied prior to the commencement of any site work) and until the owner/applicant has obtained any and all required permits from other Town, County, State or Federal Departments and/or Agencies.

14. All work covered by this permit is to be completed before August 13, 2021, unless an extension of this period is requested in writing and granted.

Town Engineer

Stormwater Management Officer

NEW YORK STATE OF OPPORTUNITY | Department of Environmental Conservation

NYS Department of Environmental Conservation
Division of Water
625 Broadway, 4th Floor
Albany, New York 12233-3505

MS4 Stormwater Pollution Prevention Plan (SWPPP) Acceptance Form

for

Construction Activities Seeking Authorization Under SPDES General Permit

*(NOTE: Attach Completed Form to Notice Of Intent and Submit to Address Above)

I. Project Owner/Operator Information
1. Owner/Operator Name: Michael Kullman
2. Contact Person: Milo Rajovic
3. Street Address: 12 Redcoat Lane
4. City/State/Zip: Waccabuc, New York 10597
II. Project Site Information
5. Project/Site Name: Kullman Residence
6. Street Address: 12 Redcoat Lane
7. City/State/Zip: Waccabuc, New York 10597
III. Stormwater Pollution Prevention Plan (SWPPP) Review and Acceptance Information
8. SWPPP Reviewed by: Joseph M. Cermele, P.E., CFM
9. Title/Position: Town Engineer
10. Date Final SWPPP Reviewed and Accepted: August 11, 2020
IV. Regulated MS4 Information
11. Name of MS4: Town of Lewisboro
12. MS4 SPDES Permit Identification Number: NYR20A 227
13. Contact Person: Joseph Angiello
14. Street Address: 79 Bouton Road
15. City/State/Zip: South Salem, New York 10590
16. Telephone Number: (914) 763-3060

MS4 SWPPP Acceptance Form - continued

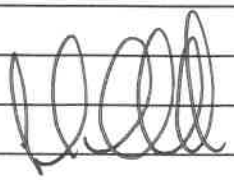
V. Certification Statement - MS4 Official (principal executive officer or ranking elected official) or Duly Authorized Representative

I hereby certify that the final Stormwater Pollution Prevention Plan (SWPPP) for the construction project identified in question 5 has been reviewed and meets the substantive requirements in the SPDES General Permit For Stormwater Discharges from Municipal Separate Storm Sewer Systems (MS4s). Note: The MS4, through the acceptance of the SWPPP, assumes no responsibility for the accuracy and adequacy of the design included in the SWPPP. In addition, review and acceptance of the SWPPP by the MS4 does not relieve the owner/operator or their SWPPP preparer of responsibility or liability for errors or omissions in the plan.

Printed Name: Joseph Angiello

Title/Position: Building Inspector

Signature:



Date: August 11, 2020

VI. Additional Information

(NYS DEC - MS4 SWPPP Acceptance Form - January 2015)

KELLARD SESSIONS

John Kellard, P.E.
David Sessions, RLA, AICP
Joseph M. Cermele, P.E., CFM
Jan K. Johannessen, AICP

MEMORANDUM

TO: Chairperson Janet Andersen and
Members of Lewisboro Planning Board

CC: Ciorsdan Conran
Judson Siebert, Esq.
Joseph Angiello

FROM: Jan K. Johannessen, AICP
Joseph M. Cermele, P.E., CFM
Town Consulting Professionals

DATE: December 10, 2020

RE: Site Development Plan Approval, Wetland Permit, and Special Use Permit
Gossett Brothers Nursery
1202 Route 35
Sheet 10805, Block 46, Lot 31

PROJECT DESCRIPTION

The subject property consists of ±5.5 acres of land and is located at 1202 Route 35 within the R-2A Zoning District. The subject property contains an existing landscape nursery and is developed with several detached buildings, gravel parking, and inventory display and storage areas. An existing residence is located on the same parcel, located to the rear of the site. The applicant is proposing to legally establish a 25-seat accessory winery business to be located within the existing nursery building and is also proposing the installation of a water treatment system and a wastewater holding tank for the winery. The existing nursery is considered an existing non-conforming use and the winery is permitted within the underlying zone, subject to the issuance of a Special Use Permit from the Zoning Board of Appeals. The subject property contains wetlands that are jurisdictional to the New York State Department of Environmental Conservation (NYSDEC) and the Town of Lewisboro.

SEQRA

The proposed action has been preliminarily identified as an Unlisted Action under the State Environmental Quality Review Act (SEQRA) and a coordinated review is underway. Prior to taking action on this pending application, the Planning Board must issue a determination of significance.

REQUIRED APPROVALS/REFERRALS

1. Site Development Plan Approval and a Wetland Activity Permit is required from the Planning Board; a public hearing is required to be held on the Wetland Permit.

2. A Special Use Permit is required from the Zoning Board of Appeals.

3. The water system and wastewater storage tank require approval from the Westchester County Department of Health (WCDH).

4. An Article 24 Freshwater Wetland Permit is required for disturbance proposed within the New York State Department of Environmental Conservation (NYSDEC) 100-foot Wetland Adjacent Area.

5. The application has been referred to the Westchester County Planning Board in accordance with Section 239-m of the General Municipal Law.

COMMENTS

1. As previously requested, the applicant must demonstrate compliance with the Special Use Permit standards associated with the accessory winery use, as allocated under Section 220-43.6 of the Zoning Code. It is recommended that the applicant provide a written response to each of the parameters outlined under this code section.

2. As previously requested, the Site Plan shall dimension the accessible walkway provided between the accessible parking spaces and the building (four (4) foot minimum required). The accessible parking and loading space must be striped in the field in accordance with State and Federal regulations; a note pointing to the accessible space states that the parking lines shown on the plan are for visual representation only; this will need to be revised and clarified.

3. The applicant is proposing to demarcate the parking spaces by use of a portable stockade fence. The Board should determine if this is acceptable. Prior versions of the plan incorporated a Belgium block inlay to denote the spaces in the field. Please clarify if wheel stops will also be used as identified in the parking space detail.

4. As previously noted, a parking area encroaches onto the adjacent parcel to the east. A detail shall be provided relating to the proposed drainage feature/berm shown along the eastern edge of the parking area. An easement document between the two property owners shall be submitted and prepared to the satisfaction of the Planning Board Attorney. The easement shall be described by metes and bounds.

5. As previously requested, the limits of land disturbance shall be illustrated and calculated on the Site Plan.

6. As previously requested, the applicant shall contact this office regarding the completion of the Part 2 EAF; several of the responses require modification.

7. As previously noted, once obtained, the applicant shall provide a copy of the WCDH and NYSDEC approvals, including signed plans and permits. Please also submit the completed applications and plans submitted to both agencies.

8. Comments provided by the Town Building Inspector, in his memorandum dated September 2, 2020, shall be addressed.

9. In order to expedite the review of subsequent submissions, please provide annotated responses to each of the comments outlined herein.

PLANS REVIEWED, PREPARED BY CRONIN ENGINEERING, P.E., P.C., DATED NOVEMBER 20, 2020:

- Site Development Plan (Sheets SP-1.1 and SP-1.2)

PLANS REVIEWED, PREPARED BY WESLEY STOUT ASSOCIATES, DATED NOVEMBER 12, 2020:

- Cover Sheet
- Landscape Layout: Proposed Lighting & Buffering Plan (L-1.0)
- Landscape Layout: Planting Plan (L-2.0)

DOCUMENTS REVIEWED:

- Cover letter, prepared by Cronin Engineering, P.E., P.C., dated November 20, 2020
- Business Plan, dated September 24, 2020
- Letter, prepared by Complete Garden Center, dated August 24, 2020
- Alterations and Additions to Gossett Brothers Nursery, prepared by Bloodgood Architectural Design, dated (last revised) November 11, 2020
- Exterior Lighting Photometric Calculation (Sheet SL-5), prepared by Apex Lighting Solutions, dated November 9, 2020

JKJ/dc

CRONIN
ENGINEERING P.E., P.C.
Professional Engineering & Consulting

39 Arlo Lane
Cortlandt Manor, NY 10567
T:(914) 736-3664 F:(914) 736-3693

November 20, 2020

Janet Andersen, Chair
Town of Lewisboro Planning Board
79 Bouton Road
South Salem, NY 10590

Re: Site Development Plan Approval,
Wetland Permit, and Special Use Permit
Gossett Brothers Nursery
1202 Route 35
Sheet 10805, Block 46, Lot 31

Dear Ms. Andersen and Members of the Planning Board:

Please find the following items enclosed regarding the resubmittal for an application for approval for the Site Development Plan and Wetlands Permit for the Gossett Brothers Nursery located at 1202 Route 35.

1. 6 copies of the revised Site Development Plans dated July 9, 2020 and revised November 20, 2020. (3 full size and 3 at 11x17). These plans were revised per Kellard Sessions Comment Memo dated October 15, 2020.
2. 3 copies of the Architectural Floor Plans for Gossett Nursery Building (11x17)

PDF's of the above documents will be emailed to the Planning Board Clerk as well.

We would like to have this application placed on the December 15, 2020 Planning Board agenda for discussion. Should you have any questions or require additional information, please contact me at the above number. Thank you for your time and consideration in this matter.

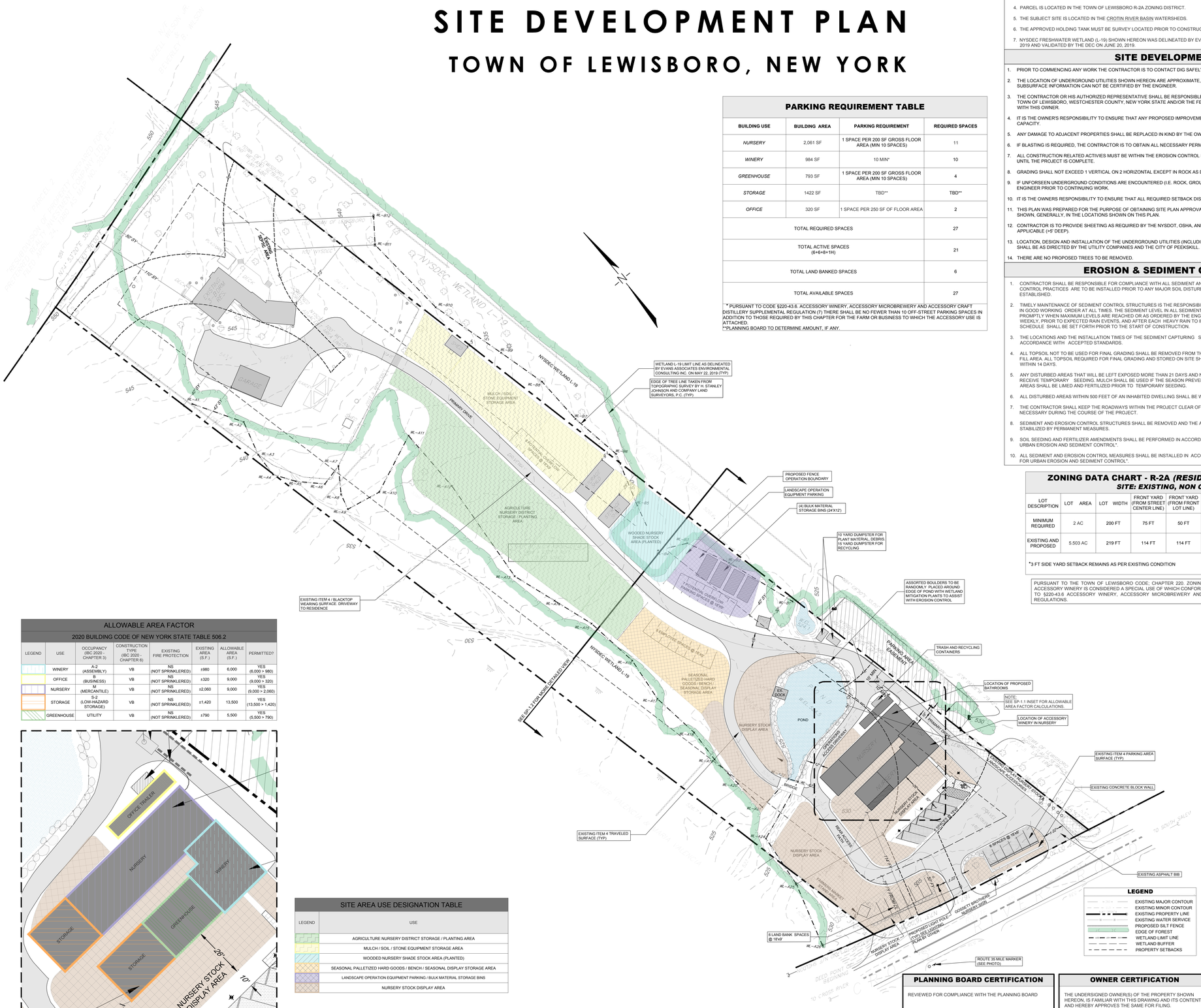
Respectfully submitted,

Alexandra D'Annunzio
Assistant Project Engineer

cc: Thomas and Billy Gossett w/ encl.
John Vuolo, South Salem Winery
Jan Johannessen, Kellard Sessions, w/ encl.
Beth Evans, Evans Associates Environmental Consulting, Inc.

pb-lewisboro-gossett-sdp-re submission-as-20201120.doc

GOSSETT BROTHERS NURSERY
SITE DEVELOPMENT PLAN
TOWN OF LEWISBORO, NEW YORK



SITE DEVELOPMENT PLAN
SCALE: 1" = 40'

PARKING REQUIREMENT TABLE

BUILDING USE	BUILDING AREA	PARKING REQUIREMENT	REQUIRED SPACES
NURSERY	2,061 SF	1 SPACE PER 200 SF GROSS FLOOR AREA (MIN 10 SPACES)	11
WINERY	984 SF	10 MIN*	10
GREENHOUSE	793 SF	1 SPACE PER 200 SF GROSS FLOOR AREA (MIN 10 SPACES)	4
STORAGE	1422 SF	TBD**	TBD**
OFFICE	320 SF	1 SPACE PER 250 SF OF FLOOR AREA	2
TOTAL REQUIRED SPACES			27
TOTAL ACTIVE SPACES (6+6+8+1H)			21
TOTAL LAND BANKED SPACES			6
TOTAL AVAILABLE SPACES			27

* PURSUANT TO CODE §220-43.6. ACCESSORY WINERY, ACCESSORY MICROBREWERY AND ACCESSORY CRAFT DISTILLERY SUPPLEMENTAL REGULATION (7) THERE SHALL BE NO FEWER THAN 10 OFF-STREET PARKING SPACES IN ADDITION TO THOSE REQUIRED BY THIS CHAPTER FOR THE FARM OR BUSINESS TO WHICH THE ACCESSORY USE IS ATTACHED.
**PLANNING BOARD TO DETERMINE AMOUNT, IF ANY.

ALLOWABLE AREA FACTOR
2020 BUILDING CODE OF NEW YORK STATE TABLE 506.2

LEGEND	USE	OCCUPANCY (IBC 2020 - CHAPTER 3)	CONSTRUCTION TYPE (IBC 2020 - CHAPTER 6)	EXISTING FIRE PROTECTION	EXISTING AREA (S.F.)	ALLOWABLE AREA (S.F.)	PERMITTED?
	WINERY	A-2 (ASSEMBLY)	VB	NS (NOT SPRINKLERED)	±980	6,000	YES (6,000 > 980)
	OFFICE	B (BUSINESS)	VB	NS (NOT SPRINKLERED)	±320	9,000	YES (9,000 > 320)
	NURSERY	M (MERCANTILE)	VB	NS (NOT SPRINKLERED)	±2,060	9,000	YES (9,000 > 2,060)
	STORAGE	S-2 (LOW-HAZARD STORAGE)	VB	NS (NOT SPRINKLERED)	±1,420	13,500	YES (13,500 > 1,420)
	GREENHOUSE	UTILITY	VB	NS (NOT SPRINKLERED)	±790	5,500	YES (5,500 > 790)

INSET
ALLOWABLE AREA FACTOR PLAN
SCALE: 1" = 20'

SITE AREA USE DESIGNATION TABLE

LEGEND	USE
	AGRICULTURE NURSERY DISTRICT STORAGE / PLANTING AREA
	MULCH / SOIL / STONE EQUIPMENT STORAGE AREA
	WOODED NURSERY SHADE STOCK AREA (PLANTED)
	SEASONAL PALLETIZED HARD GOODS / BENCH / SEASONAL DISPLAY STORAGE AREA
	LANDSCAPE OPERATION EQUIPMENT PARKING / BULK MATERIAL STORAGE BINS
	NURSERY STOCK DISPLAY AREA

SITE SPECIFIC NOTES

1. THE GROSS SITE AREA EQUALS 239,710 SQ. FT. (5.503 ACRES).
2. ACCORDING TO THE TAX ASSESSOR, THE SUBJECT SITE CONSISTS OF THE FOLLOWING TAX PARCEL IDENTIFICATION NUMBERS: SHEET: 31, BLOCK: 10805, LOT(S): 46.
3. SURVEY INFORMATION SHOWN HEREON WAS PREPARED BY: H. STANLEY JOHNSON AND COMPANY LAND SURVEYORS, P.C. ENTITLED "TOPOGRAPHIC SURVEY PREPARED FOR THOMAS GOSSETT AND GOSSETT BROTHERS NURSERY..." DATED JUNE 7, 2019 AND REVISED OCTOBER 30, 2020.
4. PARCEL IS LOCATED IN THE TOWN OF LEWISBORO R-2A ZONING DISTRICT.
5. THE SUBJECT SITE IS LOCATED IN THE CROTIN RIVER BASIN WATERSHEDS.
6. THE APPROVED HOLDING TANK MUST BE SURVEY LOCATED PRIOR TO CONSTRUCTION.
7. NYSDEC FRESHWATER WETLAND (L-19) SHOWN HEREON WAS DELINEATED BY EVANS ASSOCIATES ENVIRONMENTAL CONSULTING, INC. ON MAY 22, 2019 AND VALIDATED BY THE DEC ON JUNE 20, 2019.

SITE DEVELOPMENT NOTES

1. PRIOR TO COMMENCING ANY WORK THE CONTRACTOR IS TO CONTACT DIG SAFELY NEW YORK (FORMERLY UFPO) (CODE 753) AT 1-800-962-7962.
2. THE LOCATION OF UNDERGROUND UTILITIES SHOWN HEREON ARE APPROXIMATE, THEREFORE ACCURACY, COMPLETENESS AND/OR EXISTANCE OF SUBSURFACE INFORMATION CAN NOT BE CERTIFIED BY THE ENGINEER.
3. THE CONTRACTOR OR HIS AUTHORIZED REPRESENTATIVE SHALL BE RESPONSIBLE FOR ALL APPLICATIONS, PERMITS AND/OR FEES REQUIRED BY THE TOWN OF LEWISBORO, WESTCHESTER COUNTY, NEW YORK STATE AND/OR THE FEDERAL GOVERNMENT UNLESS OTHER ARRANGEMENTS ARE MADE WITH THIS OWNER.
4. IT IS THE OWNER'S RESPONSIBILITY TO ENSURE THAT ANY PROPOSED IMPROVEMENTS ARE PLACED ON MATERIAL WITH A SUITABLE BEARING CAPACITY.
5. ANY DAMAGE TO ADJACENT PROPERTIES SHALL BE REPLACED IN KIND BY THE OWNER.
6. IF BLASTING IS REQUIRED, THE CONTRACTOR IS TO OBTAIN ALL NECESSARY PERMITS FROM THE APPROPRIATE CITY OF PEEKSKILL OFFICIALS.
7. ALL CONSTRUCTION RELATED ACTIVIES MUST BE WITHIN THE EROSION CONTROL BARRIER. EROSION CONTROL BARRIERS SHOULD REMAIN IN PLACE UNTIL THE PROJECT IS COMPLETE.
8. GRADING SHALL NOT EXCEED 1 VERTICAL ON 2 HORIZONTAL EXCEPT IN ROCK AS DETERMINED BY THE ENGINEER.
9. IF UNFORSEEN UNDERGROUND CONDITIONS ARE ENCOUNTERED (I.E. ROCK, GROUNDWATER, ETC.) THE CONTRACTOR SHALL CONTACT THE DESIGN ENGINEER PRIOR TO CONTINUING WORK.
10. IT IS THE OWNERS RESPONSIBILITY TO ENSURE THAT ALL REQUIRED SETBACK DISTANCES ARE MAINTAINED DURING CONSTRUCTION.
11. THIS PLAN WAS PREPARED FOR THE PURPOSE OF OBTAINING SITE PLAN APPROVAL FROM THE TOWN OF LEWISBORO TO CONSTRUCT THE ITEMS SHOWN, GENERALLY, IN THE LOCATIONS SHOWN ON THIS PLAN.
12. CONTRACTOR IS TO PROVIDE SHEETING AS REQUIRED BY THE NYSDOT, OSHA, AND NYS DEPT. OF LABOR, INDUSTRIAL CODE RULE 753 WHERE APPLICABLE (>5' DEEP).
13. LOCATION, DESIGN AND INSTALLATION OF THE UNDERGROUND UTILITIES (INCLUDING BUT NOT LIMITED TO GAS, ELECTRICITY, TELEPHONE, CABLE) SHALL BE AS DIRECTED BY THE UTILITY COMPANIES AND THE CITY OF PEEKSKILL.
14. THERE ARE NO PROPOSED TREES TO BE REMOVED.

EROSION & SEDIMENT CONTROL NOTES

1. CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLIANCE WITH ALL SEDIMENT AND EROSION CONTROL PRACTICES. THE SEDIMENT AND EROSION CONTROL PRACTICES ARE TO BE INSTALLED PRIOR TO ANY MAJOR SOIL DISTURBANCES, AND MAINTAINED UNTIL PERMANENT PROTECTION IS ESTABLISHED.
2. TIMELY MAINTENANCE OF SEDIMENT CONTROL STRUCTURES IS THE RESPONSIBILITY OF THE CONTRACTOR. ALL STRUCTURES SHALL BE MAINTAINED IN GOOD WORKING ORDER AT ALL TIMES. THE SEDIMENT LEVEL IN ALL SEDIMENT TRAPS SHALL BE CLOSELY MONITORED AND SEDIMENT REMOVED PROMPTLY WHEN MAXIMUM LEVELS ARE REACHED OR AS ORDERED BY THE ENGINEER. ALL SEDIMENT CONTROL STRUCTURES SHALL BE INSPECTED WEEKLY, PRIOR TO EXPECTED RAIN EVENTS, AND AFTER EACH HEAVY RAIN TO INSURE PROPER OPERATION AS DESIGNED. AN INSPECTION SCHEDULE SHALL BE SET FORTH PRIOR TO THE START OF CONSTRUCTION.
3. THE LOCATIONS AND THE INSTALLATION TIMES OF THE SEDIMENT CAPTURING STANDARDS SHALL BE AS ORDERED BY THE ENGINEER, AND IN ACCORDANCE WITH ACCEPTED STANDARDS.
4. ALL TOPSOIL NOT TO BE USED FOR FINAL GRADING SHALL BE REMOVED FROM THE SITE IMMEDIATELY AND PLACED IN A STABILIZED STOCKPILE OR FILL AREA. ALL TOPSOIL REQUIRED FOR FINAL GRADING AND STORED ON SITE SHALL BE LIMED,FERTILIZED, TEMPORARILY SEEDED AND MULCHED WITHIN 14 DAYS.
5. ANY DISTURBED AREAS THAT WILL BE LEFT EXPOSED MORE THAN 21 DAYS AND NOT SUBJECT TO CONSTRUCTION TRAFFIC, SHALL IMMEDIATELY RECEIVE TEMPORARY SEEDING. MULCH SHALL BE USED IF THE SEASON PREVENTS THE ESTABLISHMENT OF A TEMPORARY COVER. DISTURBED AREAS SHALL BE LIMED AND FERTILIZED PRIOR TO TEMPORARY SEEDING.
6. ALL DISTURBED AREAS WITHIN 500 FEET OF AN INHABITED DWELLING SHALL BE WETTED AS NECESSARY TO PROVIDE DUST CONTROL.
7. THE CONTRACTOR SHALL KEEP THE ROADWAYS WITHIN THE PROJECT CLEAR OF SOIL AND DEBRIS AND IS RESPONSIBLE FOR ANY STREET CLEANING NECESSARY DURING THE COURSE OF THE PROJECT.
8. SEDIMENT AND EROSION CONTROL STRUCTURES SHALL BE REMOVED AND THE AREA STABILIZED WHEN THE DRAINAGE AREA HAS BEEN PROPERLY STABILIZED BY PERMANENT MEASURES.
9. SOIL SEEDING AND FERTILIZER AMENDMENTS SHALL BE PERFORMED IN ACCORDANCE WITH THE CURRENT EDITION OF "NEW YORK GUIDELINES FOR URBAN EROSION AND SEDIMENT CONTROL."
10. ALL SEDIMENT AND EROSION CONTROL MEASURES SHALL BE INSTALLED IN ACCORDANCE WITH THE CURRENT EDITION OF "NEW YORK GUIDELINES FOR URBAN EROSION AND SEDIMENT CONTROL".

ZONING DATA CHART - R-2A *(RESIDENTIAL ZONING DISTRICT)*
SITE: EXISTING, NON CONFORMING

LOT DESCRIPTION	LOT AREA	LOT WIDTH	FRONT YARD (FROM STREET CENTER LINE)	FRONT YARD (FROM FRONT LOT LINE)	SIDE YARD	REAR YARD	BUILDING HEIGHT	BUILDING COVERAGE (%)
MINIMUM REQUIRED	2 AC	200 FT	75 FT	50 FT	40' EACH SIDE	50 FT	2.5 STORIES / 35 FT	9% (MAX.)
EXISTING AND PROPOSED	5.503 AC	219 FT	114 FT	114 FT	43 FT / 3 FT*	110 FT	>35 FT	±4.4%

*3 FT SIDE YARD SETBACK REMAINS AS PER EXISTING CONDITION

PURSUANT TO THE TOWN OF LEWISBORO CODE; CHAPTER 220. ZONING ARTICLE V. SUPPLEMENTAL REGULATIONS §220-32 AN ACCESSORY WINERY IS CONSIDERED A SPECIAL USE OF WHICH CONFORMANCE TO ADDITIONAL STANDARDS IS REQUIRED. REFER TO §220-43.6 ACCESSORY WINERY, ACCESSORY MICROBREWERY AND ACCESSORY CRAFT DISTILLERY FOR SUPPLEMENTAL REGULATIONS.

ROUTE 35
MILE MARKER

PLANNING BOARD CERTIFICATION
REVIEWED FOR COMPLIANCE WITH THE PLANNING BOARD

JOSEPH M. CERMELE, P.E. — DATE
KELLARD SESSIONS CONSULTING, P.C.
TOWN CONSULTING ENGINEER

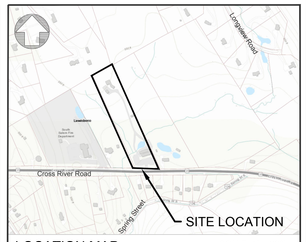
OWNER CERTIFICATION
THE UNDERSIGNED OWNER(S) OF THE PROPERTY SHOWN HEREON, IS FAMILIAR WITH THIS DRAWING AND ITS CONTENTS, AND HEREBY APPROVES THE SAME FOR FILING.

THOMAS GOSSETT — DATE
GOSSETT BROTHERS NURSERY, LTD - OWNER
1202 ROUTE 35, SOUTH SALEM, NEW YORK 10509

PLANNING BOARD APPROVAL
APPROVED BY RESOLUTION OF THE LEWISBORO TOWN PLANNING BOARD DATED JUNE 18, 2019.

JANET ANDERSEN, CHAIRPERSON — DATE

CIORSDAN CONRAN, SECRETARY — DATE



LOCATION MAP — SCALE: 1" = 800'

Dig Safely. New York
(800) 962-7962
www.digsafelynewyork.com

40 0 20 40
SCALE: 1" = 40 FT.

OWNER/DEVELOPER

THOMAS GOSSETT
1202 OLD POST ROAD
SOUTH SALEM, NEW YORK 10590

REVISIONS

#	REASON	DATE
2	PB, KS COMMENTS	11-20-20
1	PB, KS COMMENTS	9-29-20

MUNICIPAL TAX IDENTIFICATION:	
SECTION:	31
BLOCK:	10805
LOT:	46
SUBLOT:	-
DRAWN BY:	AS
CHECKED:	TC3
PROJECT:	GOSSETT NURSERY
DATE:	JULY 9, 2020
JOB #:	191209

TIMOTHY L. CRONIN III, P.E.
LICENSE #062980

CRONIN ENGINEERING
PROFESSIONAL ENGINEERING & CONSULTING
(914) 736-3664

39 Arlo Lane
Cortlandt Manor, New York 10567

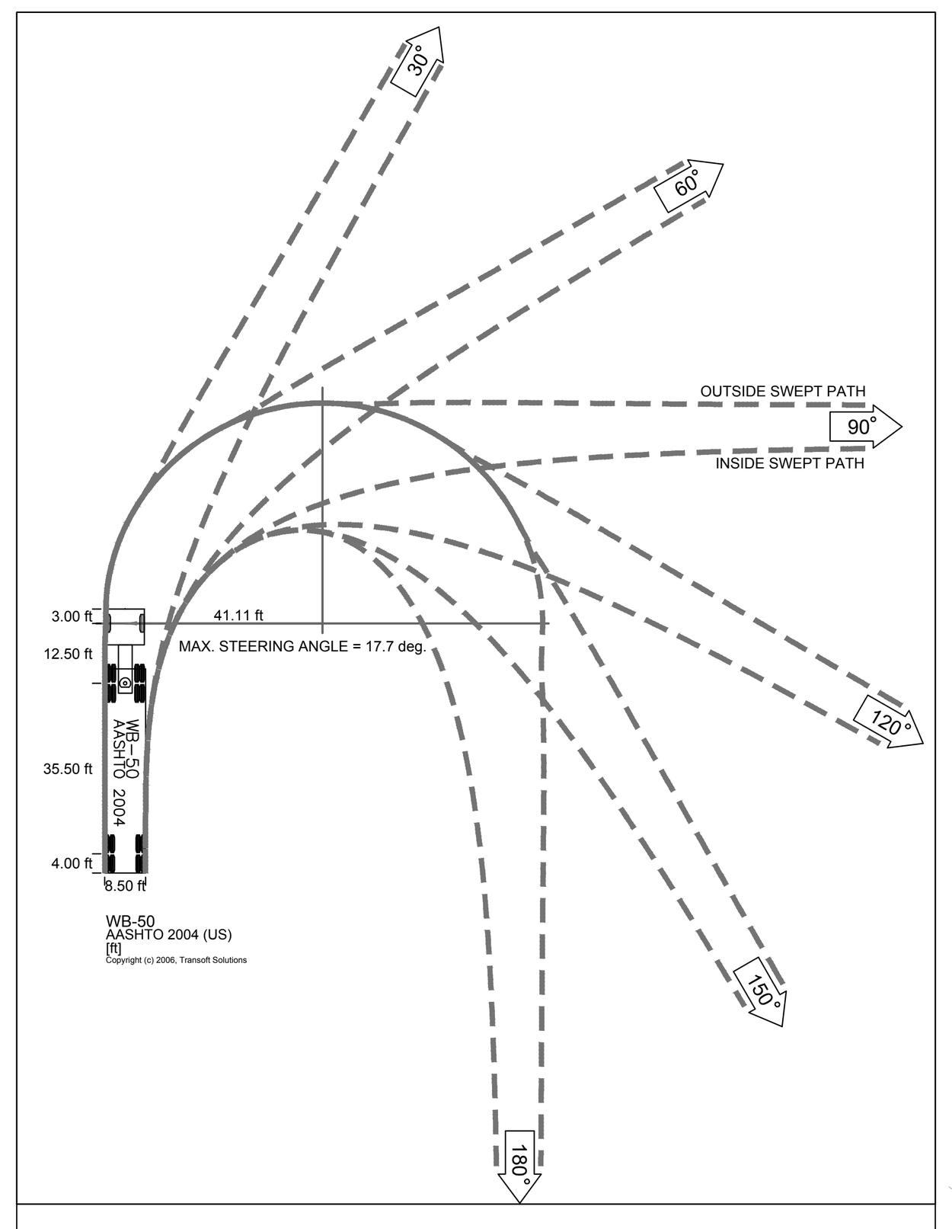
SITE DEVELOPMENT PLAN

SITE PLAN FOR GOSSETT BROTHERS NURSERY

LOCATION:
1202 OLD POST ROAD
SOUTH SALEM, NEW YORK 10590

SHEET 1 OF 2 — SP-1.1

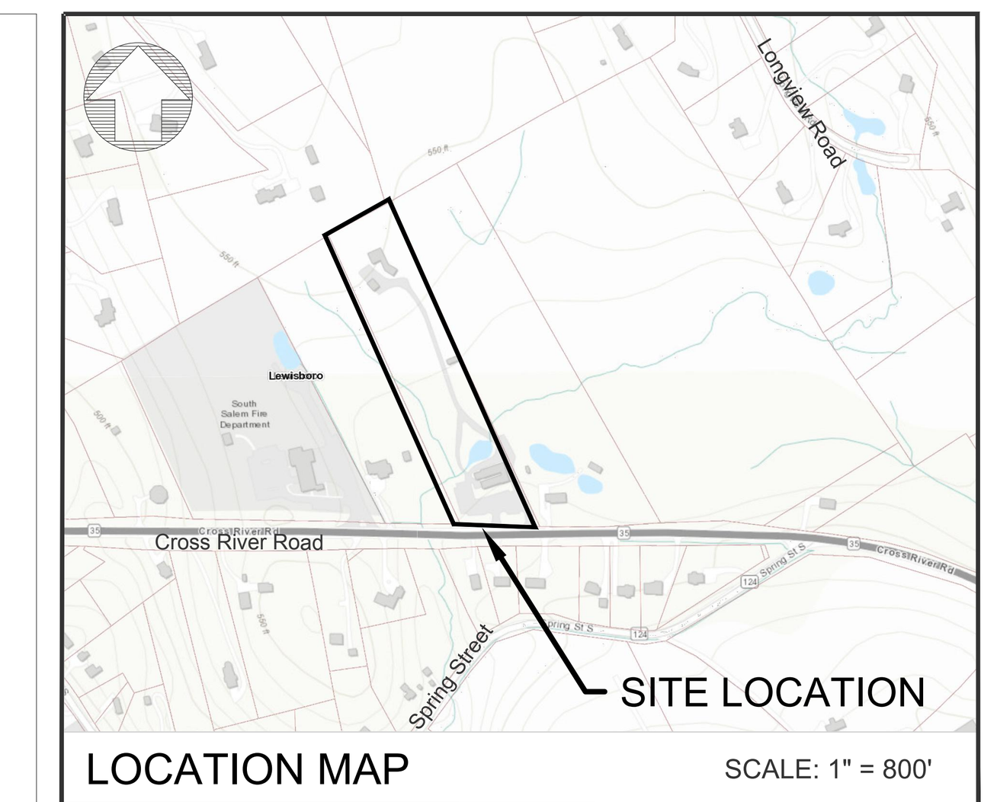
GOSSETT BROTHERS NURSERY
SITE DEVELOPMENT PLAN
TOWN OF LEWISBORO, NEW YORK



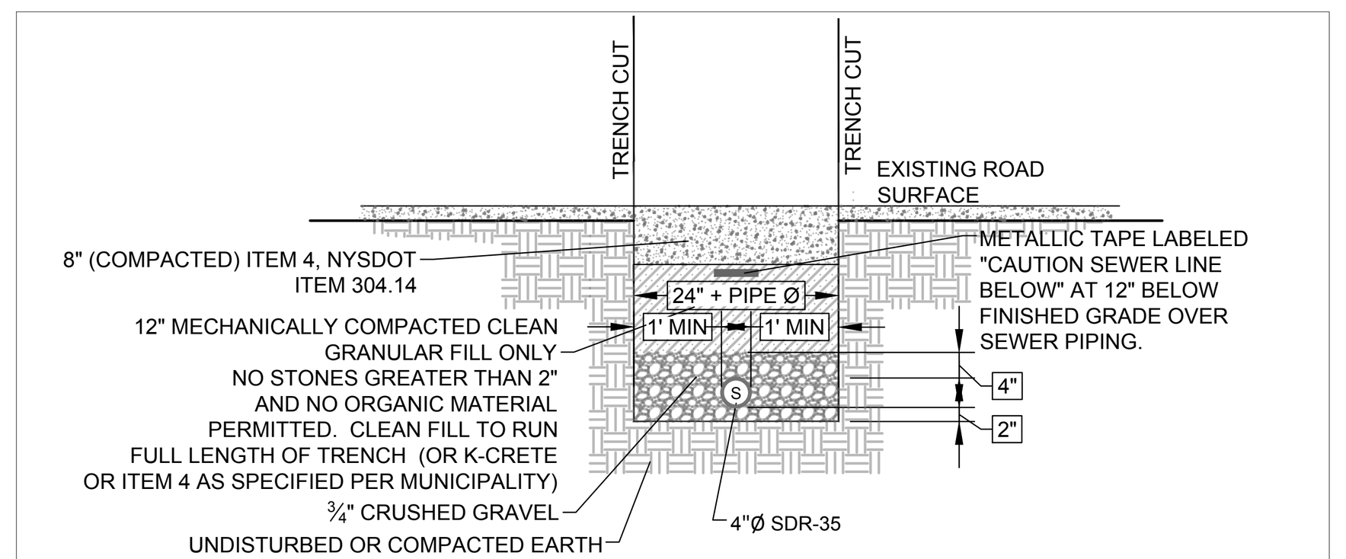
TRUCK TURNING DIAGRAM

SITE SPECIFIC NOTES

1. THE GROSS SITE AREA EQUALS 239,710 SQ. FT. (5.503 ACRES).
2. ACCORDING TO THE TAX ASSESSOR, THE SUBJECT SITE CONSISTS OF THE FOLLOWING TAX PARCEL IDENTIFICATION NUMBERS: SHEET: 31, BLOCK: 10805, LOT(S): 46.
3. SURVEY INFORMATION SHOWN HEREON WAS PREPARED BY: H. STANLEY JOHNSON AND COMPANY LAND SURVEYORS, P.C. ENTITLED "TOPOGRAPHIC SURVEY PREPARED FOR THOMAS GOSSETT AND GOSSETT BROTHERS NURSERY..." DATED JUNE 7, 2019.
4. PARCEL IS LOCATED IN THE TOWN OF LEWISBORO R-2A ZONING DISTRICT.
5. THE SUBJECT SITE IS LOCATED IN THE CROTIN RIVER BASIN WATERSHEDS.
6. THE APPROVED HOLDING TANK MUST BE SURVEY LOCATED PRIOR TO CONSTRUCTION.
7. NYSDEC FRESHWATER WETLAND (L-19) SHOWN HEREON WAS DELINEATED BY EVANS ASSOCIATES ENVIRONMENTAL CONSULTING, INC. ON MAY 22, 2019 AND VALIDATED BY THE DEC ON JUNE 20, 2019.



LOCATION MAP SCALE: 1" = 800'



SEWER SERVICE INSTALLATION NOTES:

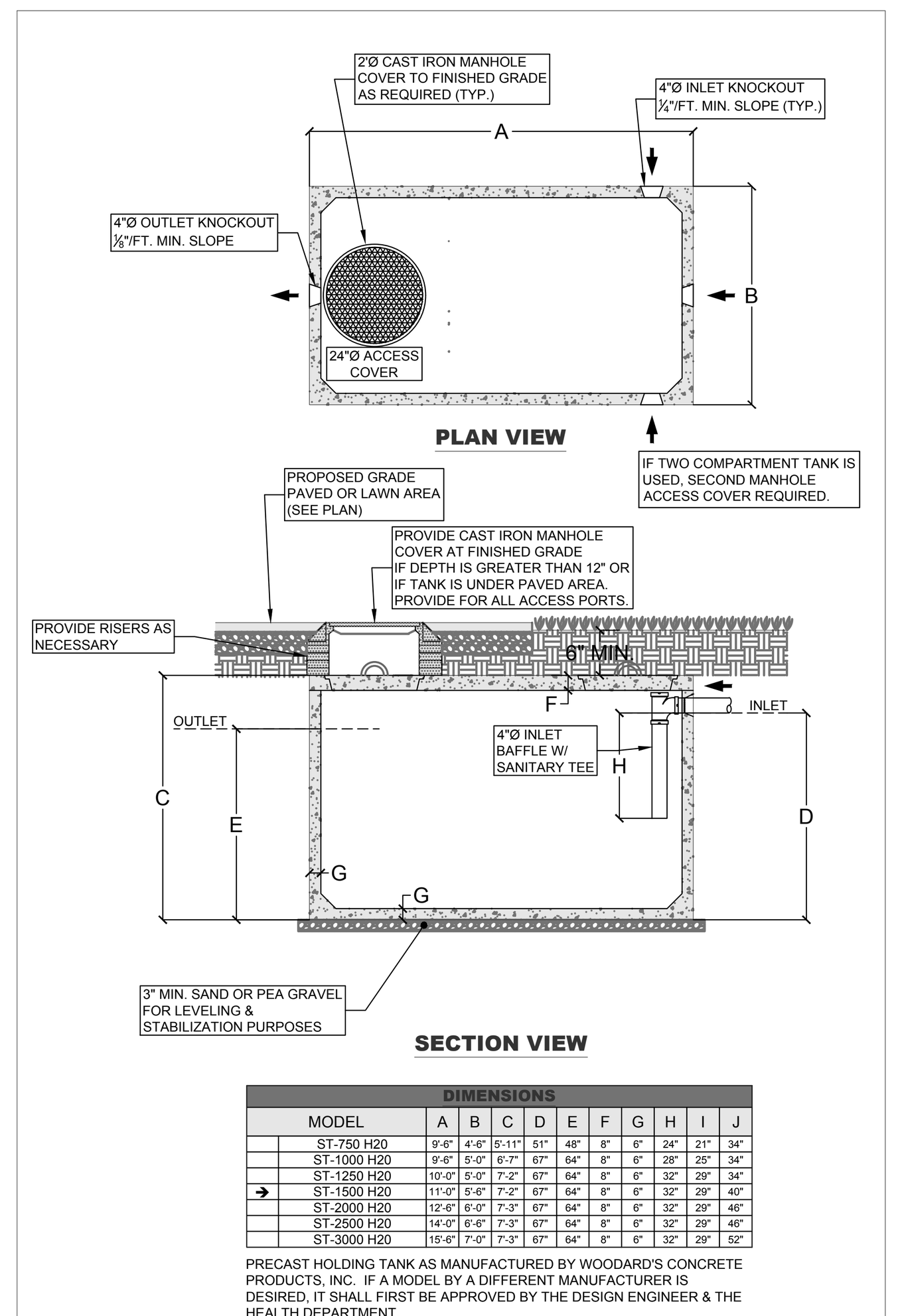
1. THE CONTRACTOR SHALL CALL IN A "CODE 753" PRIOR TO EXCAVATION.
2. ALL SANITARY SEWER SERVICE PIPING TO BE AS SPECIFIED ON SITE DEVELOPMENT PLANS.
3. SANITARY SEWER SERVICE PIPING SHALL HAVE A MINIMUM OF 2'-0" COVER OVER PIPE. IF THIS IS NOT POSSIBLE THE OWNER/APPLICANT SHALL CONTACT THE MUNIPALITIES ENGINEERING DIVISION PRIOR TO CONSTRUCTION.
4. SANITARY SEWER SERVICE RUNS SHALL HAVE A MINIMUM SLOPE OF $\frac{1}{4}$" PER FOOT FOR 4" DIA. PIPES.
5. DEBRIS, FROZEN MATERIAL, LARGE CLODS OR STONES, ORGANIC MATTER OR OTHER UNSUITABLE MATERIALS SHALL NOT BE USED AS BACKFILL.
6. BACKFILL SHALL BE PLACED SO AS NOT TO DISTURB THE PIPE ALIGNMENT.
7. CONTRACTOR TO NOTIFY MUNICIPALITY 48 HOURS IN ADVANCE FOR TRENCH INSPECTION.
8. GRAVEL DRIVEWAY RESTORATION TO CONSIST OF 8" COMPACTED ITEM 4 (NYSDOT ITEM 304.05)

SEWER SERVICE INSTALLATION W/ DRIVEWAY RESTORATION N.T.S.

- HOLDING TANK DESIGN -

- SEASONAL USE
- TWO RESTROOMS PROPOSED (1 MALE & 1 FEMALE)
- NO POTABLE WATER ON SITE AT THIS TIME. NEW WATER TREATMENT SYSTEM DESIGN AND APPROVAL PENDING.

ANTICIPATED FLOW
10 FLUSHES/DAY @ 1.5 GAL/FLUSH X (2) BATHROOMS = 30 GAL/DAY



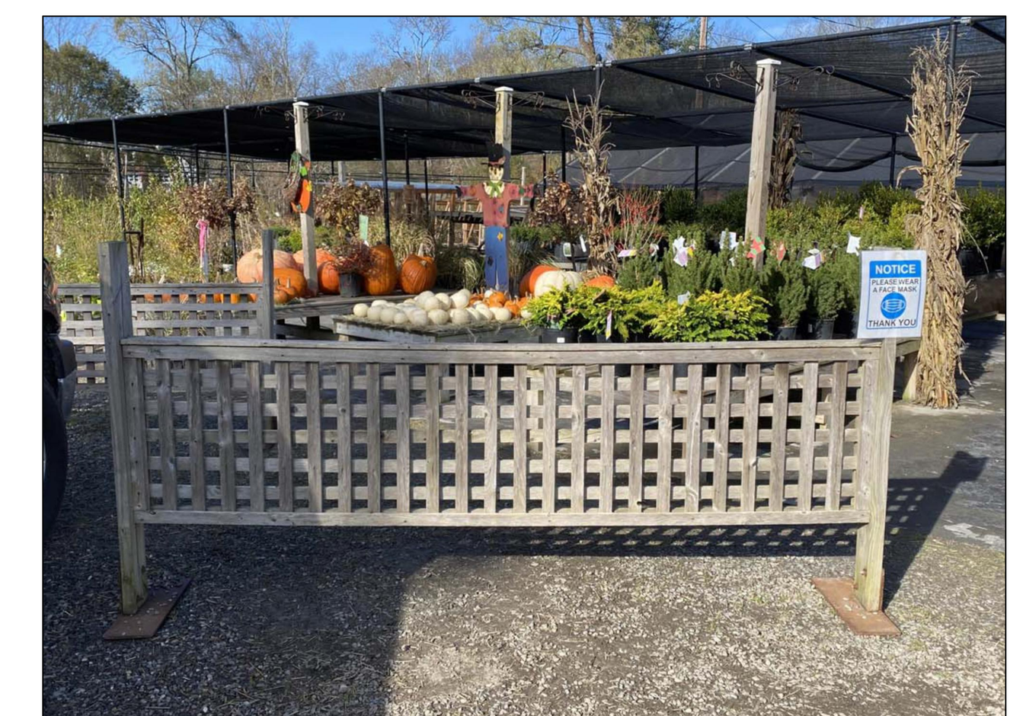
DIMENSIONS											
MODEL		A	B	C	D	E	F	G	H	I	J
	ST-750 H20	9'-6"	4'-6"	5'-11"	51"	48"	8"	6"	24"	21"	34"
	ST-1000 H20	9'-6"	5'-0"	6'-7"	67"	64"	8"	6"	28"	25"	34"
	ST-1250 H20	10'-0"	5'-0"	7'-2"	67"	64"	8"	6"	32"	29"	34"
➔	ST-1500 H20	11'-0"	5'-6"	7'-2"	67"	64"	8"	6"	32"	29"	40"
	ST-2000 H20	12'-6"	6'-0"	7'-3"	67"	64"	8"	6"	32"	29"	46"
	ST-2500 H20	14'-0"	6'-6"	7'-3"	67"	64"	8"	6"	32"	29"	46"
	ST-3000 H20	15'-6"	7'-0"	7'-3"	67"	64"	8"	6"	32"	29"	52"

PRECAST HOLDING TANK AS MANUFACTURED BY WOODARD'S CONCRETE PRODUCTS, INC. IF A MODEL BY A DIFFERENT MANUFACTURER IS DESIRED, IT SHALL FIRST BE APPROVED BY THE DESIGN ENGINEER & THE HEALTH DEPARTMENT.

NOTES

1. THEIR SHALL BE A MINIMUM OF 6" OF COVER ABOVE THE HOLDING TANK. IF MORE THAN 12" OF COVER IS PROPOSED OVER THE TANK, A RISER TO GRADE MUST BE INSTALLED ON ALL ACCESS PORTS. RISERS MUST ALSO BE INSTALLED WHERE THE TANK IS PROPOSED TO BE LOCATED UNDER A PAVED AREA.
2. ALL COMPONENTS AS SPECIFIED IN THIS DETAIL ARE AS MANUFACTURED OR SPECIFIED BY WOODARD'S CONCRETE PRODUCTS, INC. IF AN ALTERNATIVE TANK IS DESIRED, IT SHALL FIRST BE APPROVED BY THE HEALTH DEPARTMENT AND THE DESIGN ENGINEER PRIOR TO INSTALLATION.

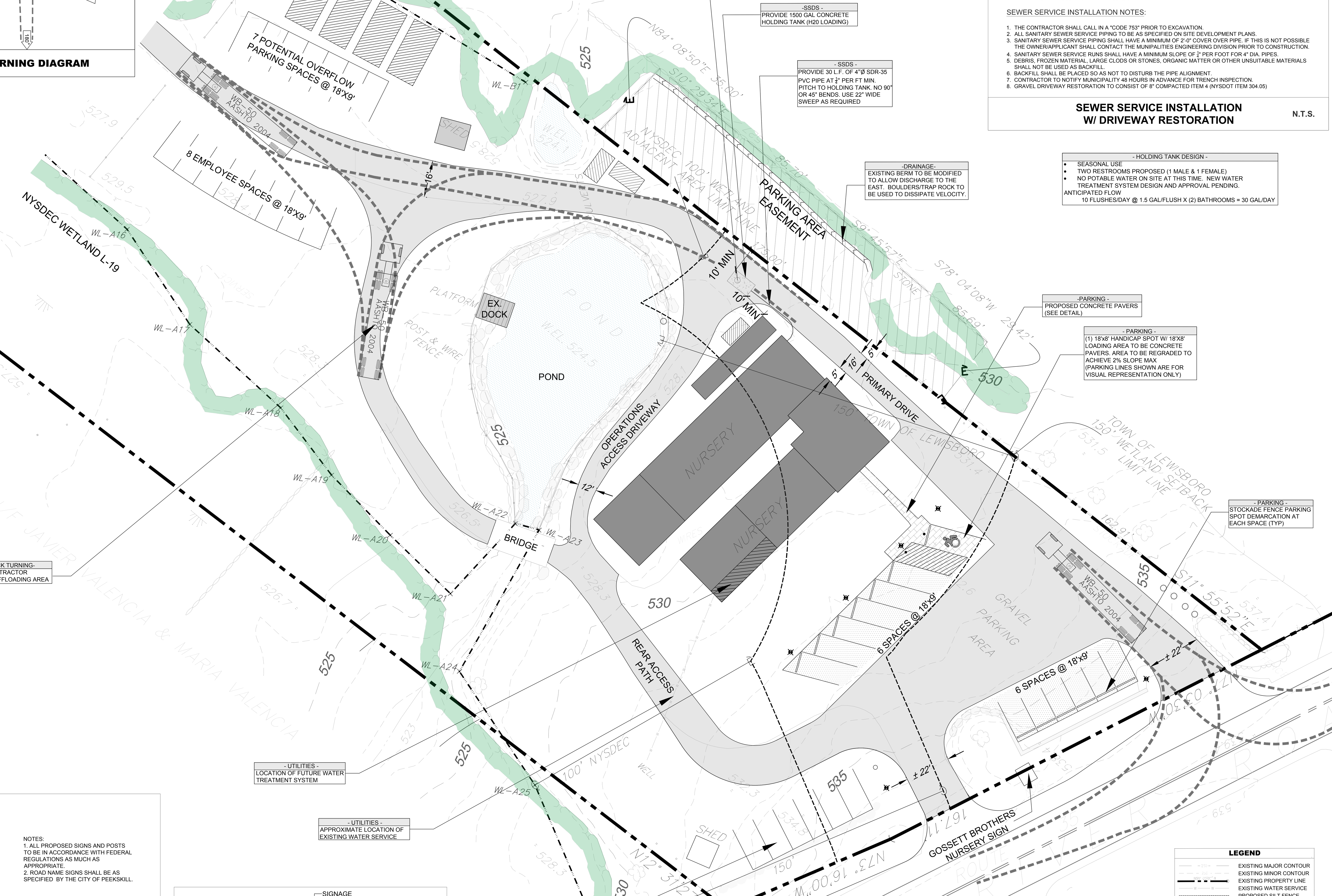
HOLDING TANK DETAIL NTS



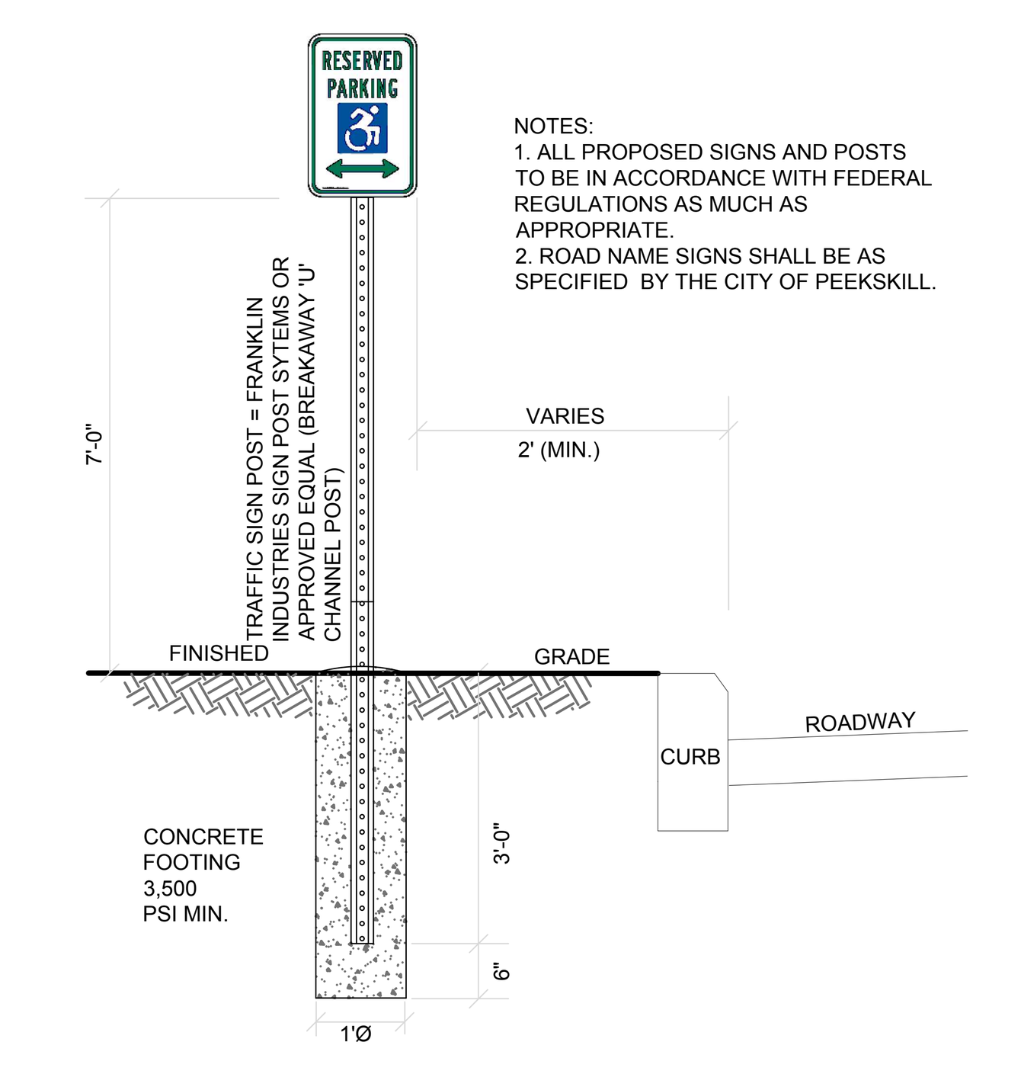
STOCKADE FENCE PARKING SPOT DEMARCATION

Dig Safely. New York
(800) 962-7962
www.digsafelynewyork.com

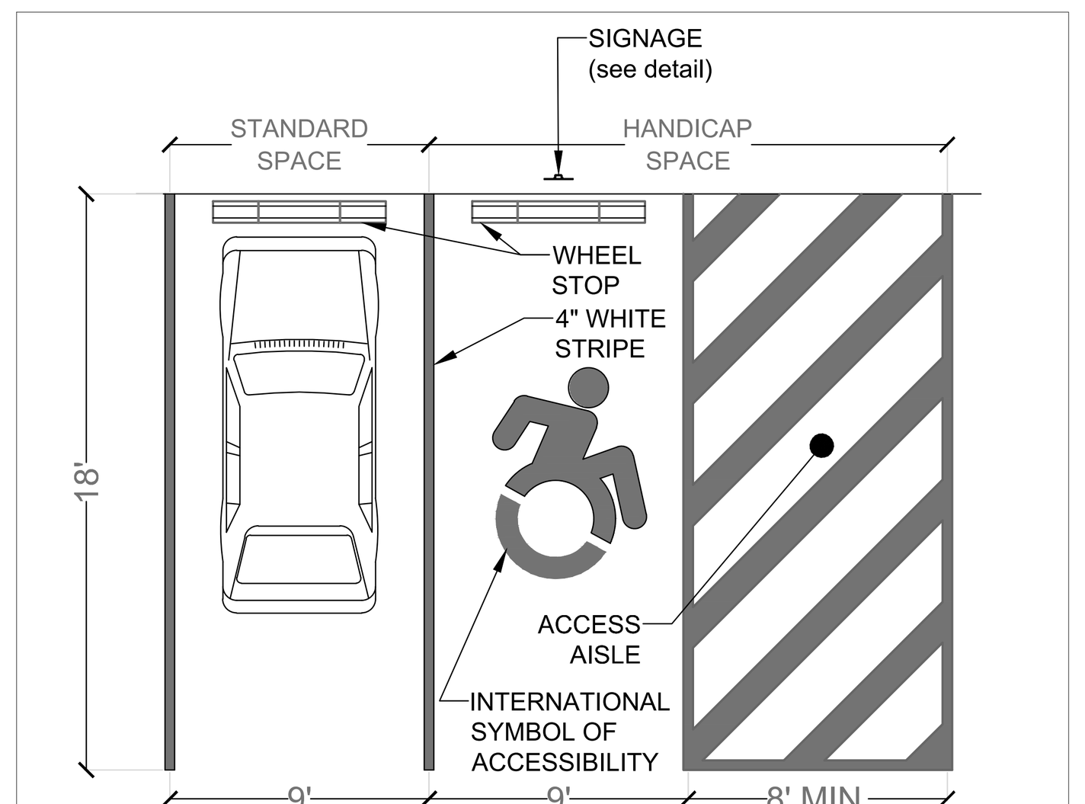
SCALE: 1" = 20 FT.



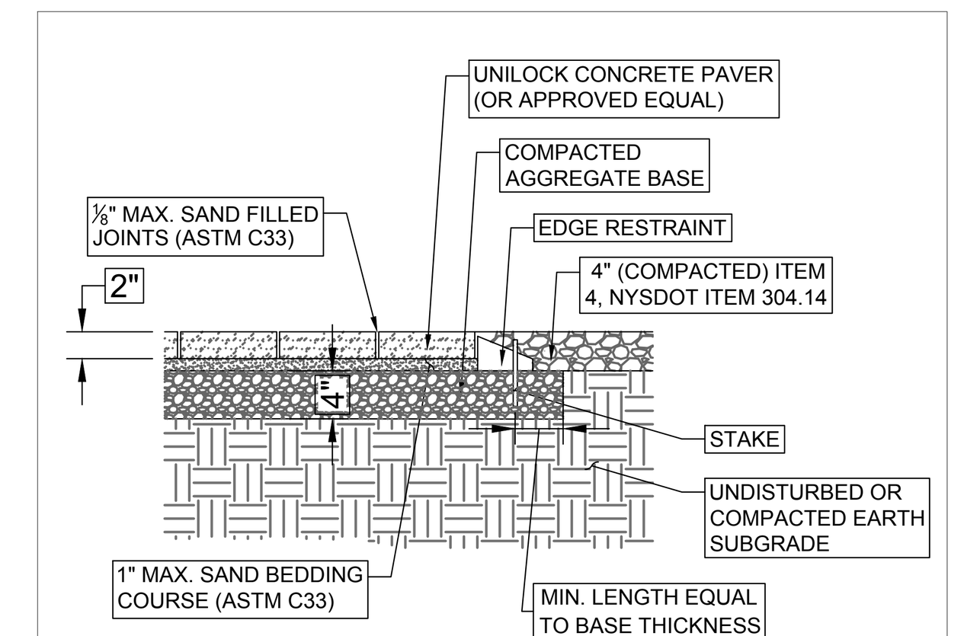
SITE DEVELOPMENT PLAN
SCALE: 1" = 20'



TRAFFIC SIGN POLE N.T.S.



PARKING STALL DETAIL N.T.S.



BRICK PAVER DETAIL FOR HANDICAP SPOT, LOADING AREA & WALK N.T.S.

PLANNING BOARD CERTIFICATION
REVIEWED FOR COMPLIANCE WITH THE PLANNING BOARD
JOSEPH M. CERMELE, P.E. KELLARD SESSIONS CONSULTING, P.C. TOWN CONSULTING ENGINEER — *DATE*

OWNER CERTIFICATION
THE UNDERSIGNED OWNER(S) OF THE PROPERTY SHOWN HEREON, IS FAMILIAR WITH THIS DRAWING AND ITS CONTENTS, AND HEREBY APPROVES THE SAME FOR FILING.
THOMAS GOSSETT GOSSETT BROTHERS NURSERY, LTD - OWNER 1202 ROUTE 35, SOUTH SALEM, NEW YORK 10509 — *DATE*

PLANNING BOARD APPROVAL
APPROVED BY RESOLUTION OF THE LEWISBORO TOWN PLANNING BOARD DATED JUNE 18, 2019.
JANET ANDERSEN, CHAIRPERSON — *DATE*
CIORSDAN CONRAN, SECRETARY — *DATE*

OWNER/DEVELOPER

THOMAS GOSSETT
1202 OLD POST ROAD
SOUTH SALEM, NEW YORK 10590

REVISIONS		
2	PB, KS COMMENTS	11-20-20
1	PB, KS COMMENTS	9-29-20
#	REASON	DATE

MUNICIPAL TAX IDENTIFICATION:	
SECTION:	31
BLOCK:	10805
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JOB #:	191209

TIMOTHY L. CRONIN III, P.E.
LICENSE #062980

CRONIN ENGINEERING
PROFESSIONAL ENGINEERING & CONSULTING
(914) 736-3664

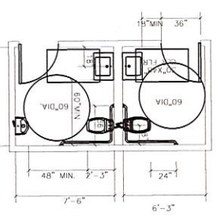
39 Arlo Lane
Cortlandt Manor, New York 10567

UTILITIES, TRUCK TURNING & PARKING DETAILS

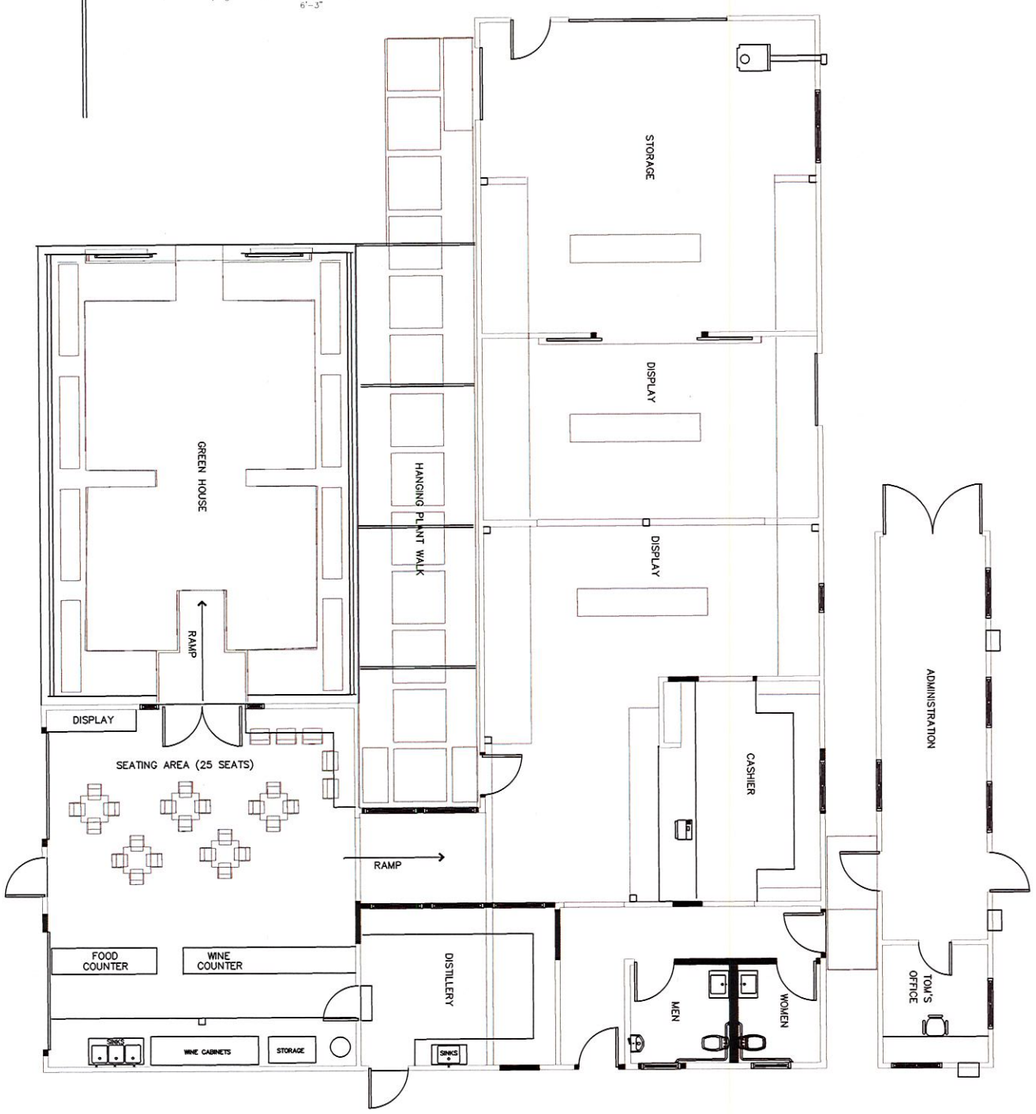
SITE DEVELOPMENT PLAN FOR GOSSETT BROTHERS NURSERY

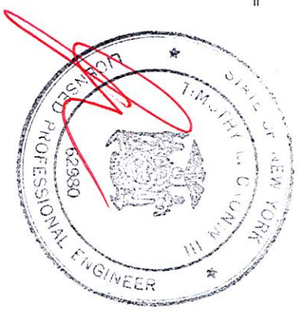
LOCATION:
1202 OLD POST ROAD
SOUTH SALEM, NEW YORK 10590

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



FIRST FLOOR PLAN WITH PROPOSED BATHROOMS
1/4" = 1'-0"





Drawing Number:
A-1

Revisions:

BLOODGOOD
ARCHITECTURAL DESIGN
ONE BAYBERRY RIDGE ROAD
WESTPORT,CT 06880

203-221-7775
DENISE@BLOODGOODARCHITECTS.COM

ALTERATIONS AND ADDITIONS TO:

GOSSETT BROTHERS NURSERY

1202 OLD POST ROAD
SOUTH SALEM,NY 10590

Date: 11/09/2020	Drawn By: DAB	Drawing Title:
Scale: AS NOTED		FLOOR PLAN
Job No:		

GOSSETT BROTHERS NURSERY

1202 Route 35
South Salem, NY 10590

Set
11/12/2020

Drawing Index

General Notes

1. Existing conditions and survey information prepared by H. Stanley Johnson and Co., Inc., 42 Smith Avenue, Mt. Kisco NY 10549, tel: (914) 241-3872,
2. Verify locations, elevations and dimensions in field prior to construction. Notify the owner and/or landscape architect of any discrepancies.
3. Contact "Dig Safely NY" at 811 prior to beginning any site work activities or excavation.
4. All development activities to be undertaken with street rights of-way and other public lands shall comply fully with applicable state and/or town standards. Notify appropriate agency at least 72 hours prior to any excavation or clearing or construction on state or town property.
5. All work shall conform to the requirements of the Town of Lewisboro, N.Y. Notify appropriate agencies at least 48 hours prior to performing work under their jurisdiction. Obtain all necessary approval from appropriate agencies prior to commencing construction activities.
6. Install erosion controls and tree protection prior to any excavation and/or clearing.
7. Removal and disposal of all materials to comply with any and all state and/or local codes.
8. Protect trees to remain with a 4 FT. HT. snow or construction fence in accordance with the tree protection detail. Maintain protection throughout construction period. Do not store materials or equipment within fence or drip line of tree. Install tree protection prior to any earthwork or clearing.
9. General contractor to provide all tree protection and to maintain protection for duration of construction. Do not store materials or equipment within tree protection or drip line of tree.
10. Layout all paving and curbing prior to construction. Receive landscape architects approval on layout prior to starting work.
11. Provide samples of all stone, brick and mortar materials for landscape architects approval.
12. Contract limit lines are property lines unless otherwise shown on drawings. Contractor is responsible for repair of damage or disturbance to other areas which may occur as the result of their work whether within or outside of the contract limit lines.
13. Contractor is responsible for securing all construction permits and licenses required to complete the work.
14. Paving dimensions are from the edge of pavement or face wall to edge of pavement or face of wall opposite, unless otherwise noted.
15. Final grade in all cases shall slope away from the building at least 1/4" per foot.
16. All walks and steps shall have a minimum wash of 1/4" per foot.
17. Provide sleeves at indicated areas. Provide (2) PVC schedule 40 pipes - 1 @ 2" and 1 @ 4" diameter at each location. Cap and mark ends. Extend sleeves 12" beyond pavement edge @ +/- 18" depth. Mark end with 12" long rebar driven to 6" below finished grade.
18. Strip topsoil from all areas to be paved or filled, stockpile as indicated for reuse in lawn areas. Supply additional topsoil needed to bring all lawn and planting areas to a minimum depth of 6".
19. Screen all topsoil and spread to a 6" depth over all disturbed areas. Fine grade and seed to create finished lawn, or as otherwise directed by landscape architect for future planting areas.
20. Blend new work smoothly with existing grades. avoid sharp breaks in grade. Round tops and bottoms of grades.

PLANNING BOARD CERTIFICATION

REVIEWED FOR COMPLIANCE WITH THE PLANNING BOARD

JOSEPH M. CERMELE, P.E. DATE
KELLARD SESSIONS CONSULTING, P.C.
TOWN CONSULTING ENGINEER

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GOSSETT BROTHERS NURSERY, LTD - OWNER
1202 ROUTE 35, SOUTH SALEM, NEW YORK 10509

PLANNING BOARD APPROVAL

APPROVED BY RESOLUTION OF THE LEWISBORO TOWN PLANNING BOARD DATED JUNE 18, 2019.

JANET ANDERSEN, CHAIRPERSON DATE

CIORSDAN CONRAN, SECRETARY DATE

Landscape Architecture
Planning
Sustainable Design

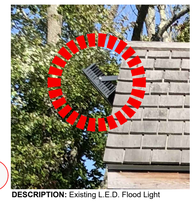
96 Main Street
New Canaan, CT 06840
Ph 203 966-3100
Fax 203 966-3131

WESLEY STOUT ASSOCIATES

Existing Lighting to be Removed

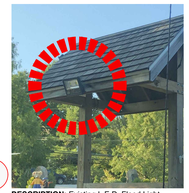
1 **DESCRIPTION:** (2) Existing L.E.D. Accent Lighting for Existing Sign - Keep Existing Up-Lighting

2 **DESCRIPTION:** (4) Existing Pole Mounted L.E.D. Flood Lights



3 **DESCRIPTION:** Existing L.E.D. Flood Light

4 **DESCRIPTION:** Existing L.E.D. Flood Light



5 **DESCRIPTION:** Existing L.E.D. Flood Light

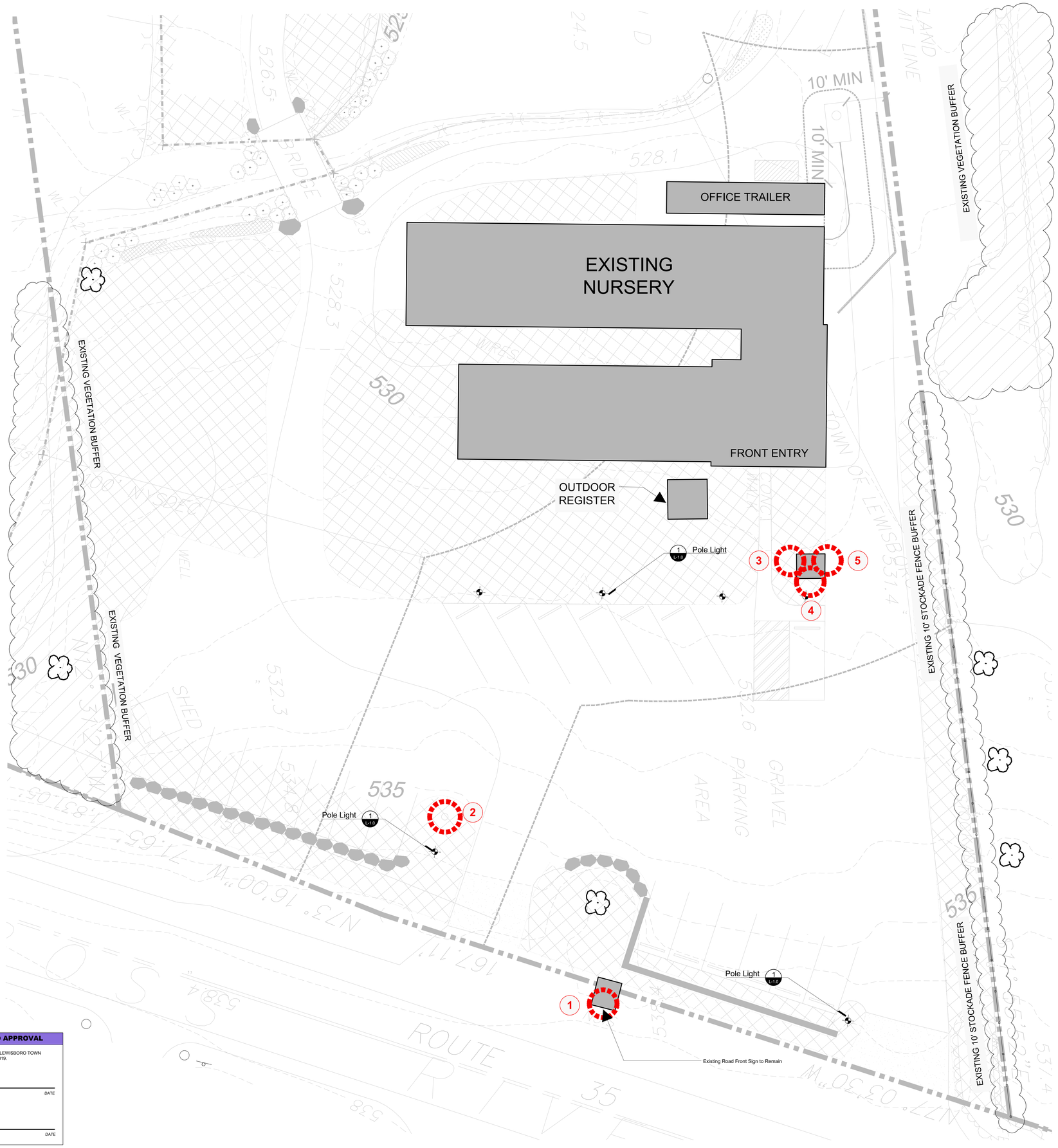
Proposed Lighting Schedule

Qty.	Symbol	Type	Description
6	⊕	*Flood Light*	'Park Ridge Series' Arm Mounted LED Downlight, Black Powder Coat #1910LEDRLM18-5P, 3500K, Type 3R Distribution, Include Powder-Painted 18" Shade and Mounting Accessories to be fixed on Black Powder Coated Aluminum Pole, as manufactured by Sternberg Lighting, 555 Lawrence Avenue, Roselle IL 60172, tel: 847-588-3400, website: www.sternberglighting.com, as supplied by Apex Lighting, contact Silvia Perdikis, tel: (860)-707-3024, email: SPerdikis@apexltg.com (or equal).

'Park Ridge Series' Light. Mounted at 14' height to structural pole. As manufactured by Sternberg Lighting or approved equal. See Plans for Locations.

1 L-1.0 Pole Light

Not to Scale



PLANNING BOARD CERTIFICATION	OWNER CERTIFICATION	PLANNING BOARD APPROVAL
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JOSEPH M. CERMELE, P.E. — DATE KELLARD SESSIONS CONSULTING, P.C. TOWN CONSULTING ENGINEER	THOMAS GOSSETT — DATE GOSSETT BROTHERS NURSERY, LTD - OWNER 1202 ROUTE 35, SOUTH SALEM, NEW YORK 10509	JANET ANDERSEN, CHAIRPERSON — DATE CIORSDAN CONRAN, SECRETARY — DATE

GOSSETT NURSERY
1202 Route 35
South Salem, NY 10590

Symbol Legend

- Note Call-Off
- 1 L-1.0 — Detail Call-Off
- Existing Lighting to be Removed

Lighting Notes

1. Notify Landscape Architect 72 hours minimum in advance of starting onsite operations. Receive approval for layout of all fixture locations prior to installation.
2. Be aware of all underground utilities prior to any excavation operations. Contact 811 "Dig Safely NY" prior to excavation. Contractor shall be responsible for repair of existing utilities damaged, without further charge to the owner.
3. All work to be performed by a qualified state of New York licensed electrical contractor.
4. All work to meet or exceed all local and national building code requirements.
5. Contractor is responsible for obtaining all necessary licenses and permits required to perform all work shown on drawings.
6. Contractor shall be required to carry workmen's compensation insurance and comprehensive general liability insurance. Certificates will be required prior to signing contracts.
7. Contractor shall provide all fixtures and related materials for complete installation.
8. Lighting shown on these plans for location only - See electrical plans for details and specification of all lighting.
9. Pole Lights to be on single circuit with shut off timer. Operational hours to be Between Dusk - 11P.M.
10. All light fixtures have a lead time. Contractor to call supplier to order as needed.
11. See Sheet L-1.0 for Proposed Lighting Schedule, fixture character images, and additional fixture information.

REGISTERED LANDSCAPE ARCHITECT — L. Wesley Stout — 002587-1 — STATE OF NEW YORK

WESLEY STOUT ASSOCIATES
96 Main Street, New Canaan, CT 06840
203 966-3100 FAX 203 966-3151
www.wesleystout.com

No:	Revision:	Date:

0 5 10 20

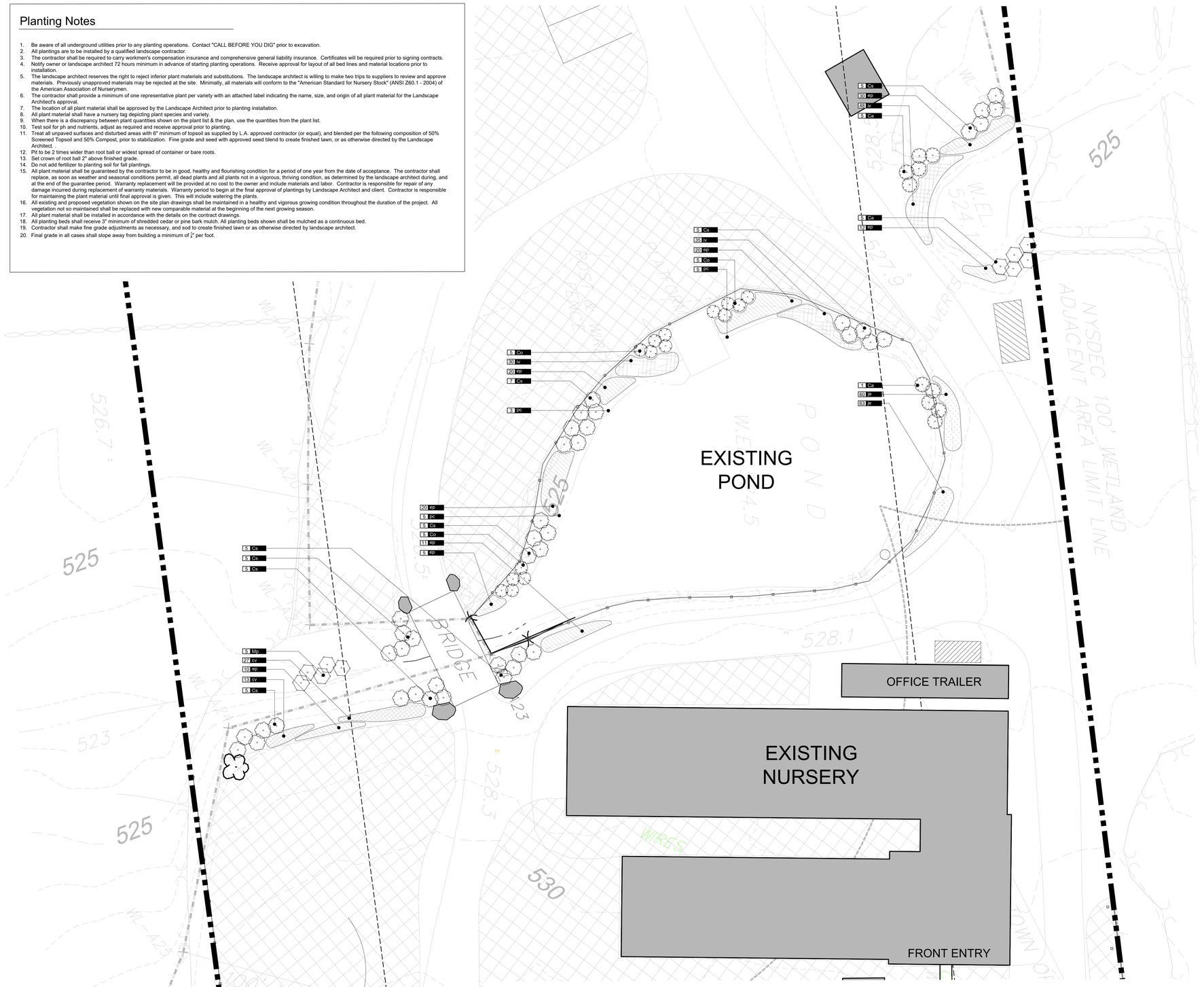
LANDSCAPE LAYOUT: PROPOSED LIGHTING & BUFFERING PLAN

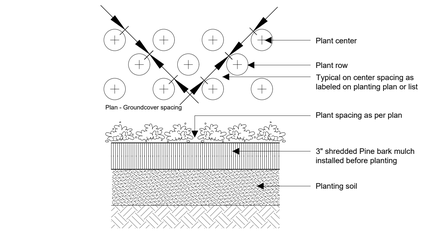
Date: 11/12/2020
Scale: 1" = 10'
Sheet:

L-1.0

Planting Notes

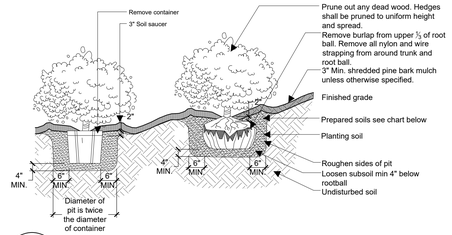
1. Be aware of all underground utilities prior to any planting operations. Contact "CALL BEFORE YOU DIG" prior to excavation.
2. All plantings are to be installed by a qualified landscape contractor.
3. The contractor shall be required to carry workmen's compensation insurance and comprehensive general liability insurance. Certificates will be required prior to signing contracts.
4. Notify owner or landscape architect 72 hours minimum in advance of starting planting operations. Receive approval for layout of all bed lines and material locations prior to installation.
5. The landscape architect reserves the right to reject inferior plant materials and substitutions. The landscape architect is willing to make two trips to suppliers to review and approve materials. Previously unapproved materials may be rejected at the site. Minimally, all materials will conform to the "American Standard for Nursery Stock" (ANSI Z60.1 - 2004) of the American Association of Nurserymen.
6. The contractor shall provide a minimum of one representative plant per variety with an attached label indicating the name, size, and origin of all plant material for the Landscape Architect's approval.
7. The location of all plant material shall be approved by the Landscape Architect prior to planting installation.
8. All plant material shall have a nursery tag depicting plant species and variety.
9. When there is a discrepancy between plant quantities shown on the plant list & the plan, use the quantities from the plant list.
10. Test soil for ph and nutrients, adjust as required and receive approval prior to planting.
11. Treat all unpaved surfaces and disturbed areas with 6" minimum of topsoil as supplied by L.A. approved contractor (or equal), and blended per the following composition of 50% Screened Topsoil and 50% Compost, prior to stabilization. Fine grade and seed with approved seed blend to create finished lawn, or as otherwise directed by the Landscape Architect, .
12. Pit to be 2 times wider than root ball or widest spread of container or bare roots.
13. Set crown of root ball 2" above finished grade.
14. Do not add fertilizer to planting soil for fall plantings.
15. All plant material shall be guaranteed by the contractor to be in good, healthy and flourishing condition for a period of one year from the date of acceptance. The contractor shall replace, as soon as weather and seasonal conditions permit, all dead plants and all plants not in a vigorous, thriving condition, as determined by the landscape architect during, and at the end of the guarantee period. Warranty replacement will be provided at no cost to the owner and include materials and labor. Contractor is responsible for repair of any damage incurred during replacement of warranty materials. Warranty period to begin at the final approval of plantings by Landscape Architect and client. Contractor is responsible for maintaining the plant material until final approval is given. This will include watering the plants.
16. All existing and proposed vegetation shown on the site plan drawings shall be maintained in a healthy and vigorous growing condition throughout the duration of the project. All vegetation not so maintained shall be replaced with new comparable material at the beginning of the next growing season.
17. All plant material shall be installed in accordance with the details on the contract drawings.
18. All planting beds shall receive 3" minimum of shredded cedar or pine bark mulch. All planting beds shown shall be mulched as a continuous bed.
19. Contractor shall make fine grade adjustments as necessary, and sod to create finished lawn or as otherwise directed by landscape architect.
20. Final grade in all cases shall slope away from building a minimum of ¼" per foot.





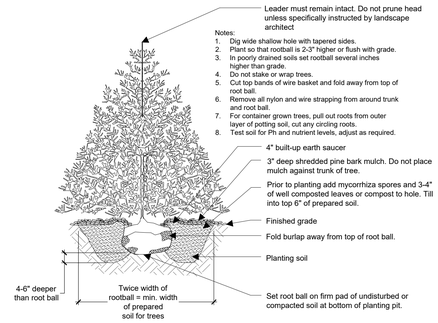
1 L-2.0 **Groundcover Planting**

Not to Scale



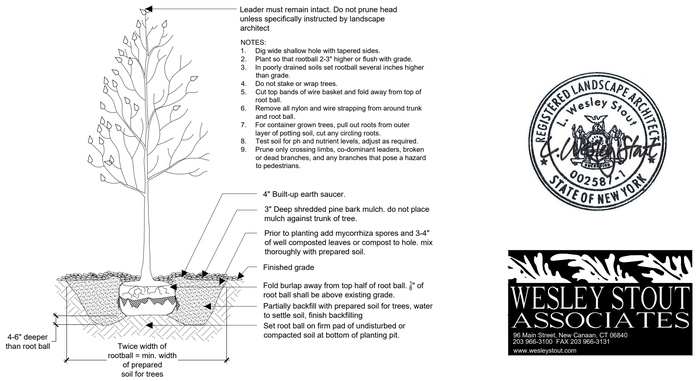
2 L-2.0 **Planting Pit for Shrubs**

Not to Scale



3 L-2.0 **Evergreen Tree Planting**

Not to Scale



4 L-2.0 **Deciduous Tree Planting**

Not to Scale

Proposed Plant List

Shrubs

Qty.	Symbol	Botanical Name	Common Name	Size	Cond	Remarks
30	Co	*Cephalanthus occidentalis*	Button Bush	2 Gal.	CONT.	
25	Ca	*Clethra alnifolia*	Summer Sweet	2 Gal.	CONT.	Full, heavy flowers, nicely shaped, space 3' on center
40	Cs	*Cornus stolonifera*	Red Twig Dogwood	2 Gal.	CONT.	Full, heavy flowers, nicely shaped, space 3' on center
10	Mp	*Myrica pensylvanica*	Bayberry	2 Gal.	CONT.	Full, heavy foliage, nicely shaped, space 3' on center
						Full, heavy foliage, nicely shaped, space 3' on center

Perennials, Grasses, Groundcovers

Qty.	Symbol	Botanical Name	Common Name	Size	Cond	Remarks
30	cv	*Carex vulpinoidea*	Fox Sedge	Quart.	CONT.	Full, nicely shaped, spaced 24" o.c.
30	ep	*Eupatorium purpureum*	Joe Pye Weed	Quart.	CONT.	Full, nicely shaped, heavy flowers, spaced 24' o.c.
30	iv	*Iris versicolor*	Blue Flag Iris	Quart.	CONT.	Full, nicely shaped, heavy flowers, spaced 24" o.c.
30	je	*Juncus effusus*	Softrush	Quart.	CONT.	Full, nicely shaped, spaced 12" o.c.
100	pc	*Pontederia cordata*	Pickerelweed	Quart.	CONT.	Full, nicely shaped, planted in no more than 12" of standing water, spaced 4' apart

Soil Chart

Post construction soil condition	Type of preparation
Good soil	Loosen existing soil
Compacted soil	Loosen existing soil, add composted organic matter to bring organic content to 5% dry weight
Clay content 5-35%	Loosen existing soil, add composted organic matter to bring organic content to 5% dry weight
Poor quality, heavy clay soil	Remove existing soil, add loam topsoil

PLANNING BOARD CERTIFICATION

REVIEWED FOR COMPLIANCE WITH THE PLANNING BOARD

JOSEPH M. CERMELE, P.E. DATE
KELLARD SESSIONS CONSULTING, P.C.
TOWN CONSULTING ENGINEER

OWNER CERTIFICATION

THE UNDERSIGNED OWNER(S) OF THE PROPERTY SHOWN HEREON, IS FAMILIAR WITH THIS DRAWING AND ITS CONTENTS, AND HEREBY APPROVES THE SAME FOR FILING.

THOMAS GOSSETT DATE
GOSSETT BROTHERS NURSERY, LTD - OWNER
1202 ROUTE 35, SOUTH SALEM, NEW YORK 10509

PLANNING BOARD APPROVAL

APPROVED BY RESOLUTION OF THE LEWISBORO TOWN PLANNING BOARD DATED JUNE 18, 2019.

JANET ANDERSEN, CHAIRPERSON DATE

CIORSDAN CONRAN, SECRETARY DATE

GOSSETT NURSERY
1202 Route 35
South Salem, NY 10590

Symbol Legend

- Property Line
- Proposed Planting Beds
- Existing Tree to Remain
- Proposed Deciduous Tree
- Proposed Evergreen Tree
- Note Call-Off
- 1 BP — Planting Call-Off

REGISTERED LANDSCAPE ARCHITECT — L. Wesley Stout — 002587-1 — STATE OF NEW YORK

WESLEY STOUT ASSOCIATES
96 Main Street, New Canaan, CT 06840
203 966-3100 FAX 203 966-3101
www.wesleystout.com

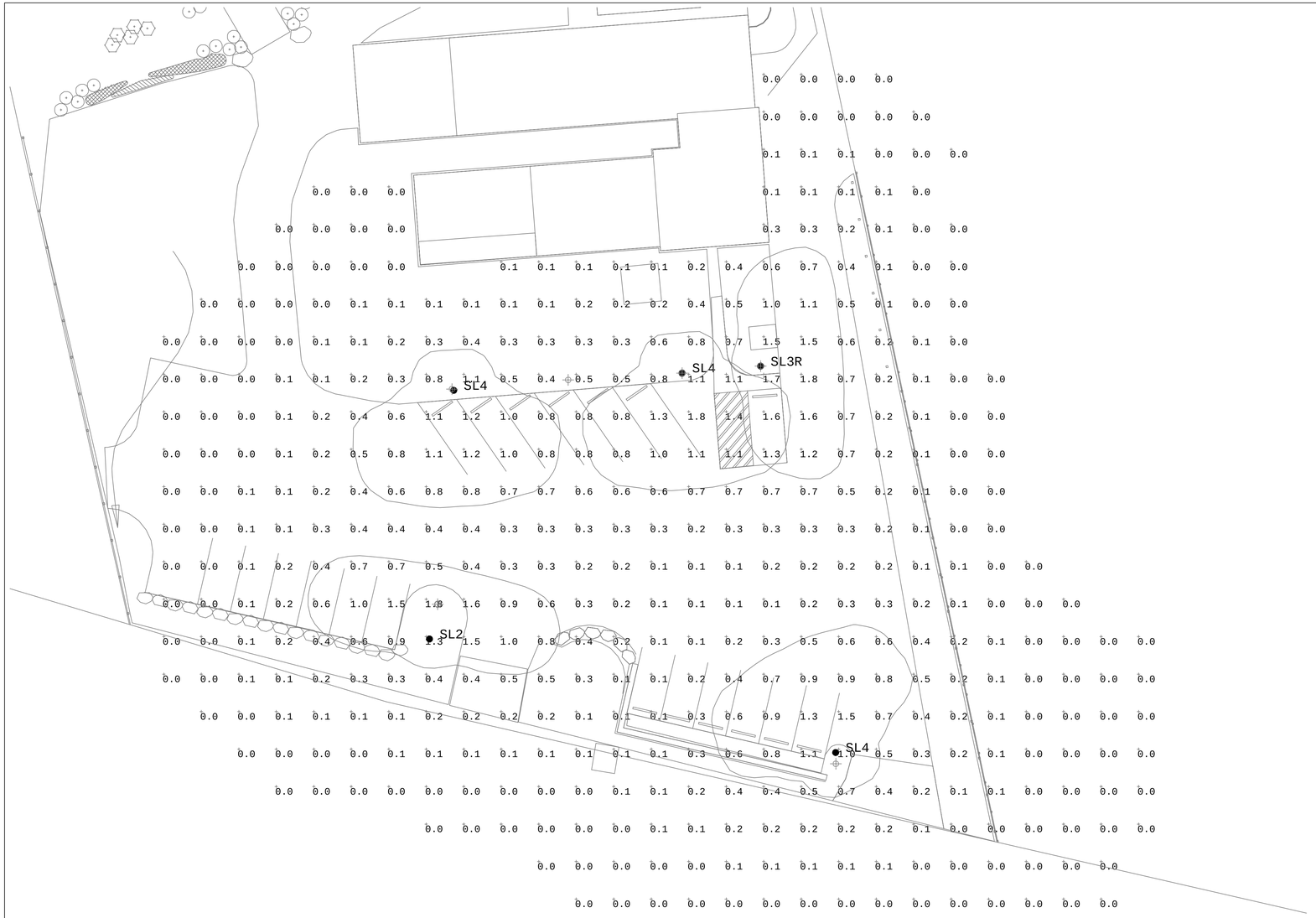
No: Revision: Date:

0 5 10 20

LANDSCAPE LAYOUT: PLANTING PLAN

Date: 11/12/2020
Scale: 1" = 10'
Sheet:

L-2.0



JOB NAME: GOSSETT NURSERY - SOUTH SALEM MA
APEX LIGHTING SOLUTIONS
REFLECTANCES: N/A
WORKPLANE/CALC PLANE: @ GRADE
MOUNTING HEIGHT: 14FT
APPS: CTR
SALES: SP

Luminaire Schedule							
Qty	Label	Arrangement	Lumens	Input Watts	LLF	BUG Rating	Description
1	SL2	SINGLE	3423	31.1	0.799	B2-U2-G2	STERNBERG 1910LEDRLM18-5P-1RND35T2-MDL03-FL/OAPT/550P515-.188/STD @ 14FT AFG TO BOF
1	SL3R	SINGLE	3343	30.8	0.799	B1-U2-G1	STERNBERG 1910LEDRLM18-5P-1RND35T3R-MDL03-FL/OAPT/550P515-.188/STD @ 14FT AFG TO BOF
3	SL4	SINGLE	3393	30.6	0.799	B1-U2-G1	STERNBERG 1910LEDRLM18-5P-1RND35T4-MDL03-FL/OAPT/550P515-.188/STD @ 14FT AFG TO BOF

Calculation Summary						
Label	Grid Z	Avg	Max	Min	Avg/Min	Max/Min
SITE	0	0.28	1.8	0.0	N.A.	N.A.
PARKING LOT		0.50	1.8	0.0	N.A.	N.A.

REGISTERED LANDSCAPE ARCHITECT
L. Wesley Stout
002587-1
STATE OF NEW YORK

PLANNING BOARD CERTIFICATION

REVIEWED FOR COMPLIANCE WITH THE PLANNING BOARD

JOSEPH M. CERMELE, P.E. — DATE
KELLARD SESSIONS CONSULTING, P.C.
TOWN CONSULTING ENGINEER

OWNER CERTIFICATION

THE UNDERSIGNED OWNER(S) OF THE PROPERTY SHOWN HEREON, IS FAMILIAR WITH THIS DRAWING AND ITS CONTENTS, AND HEREBY APPROVES THE SAME FOR FILING.

THOMAS GOSSETT — DATE
GOSSETT BROTHERS NURSERY, LTD - OWNER
1202 ROUTE 35, SOUTH SALEM, NEW YORK 10509

PLANNING BOARD APPROVAL

APPROVED BY RESOLUTION OF THE LEWISBORO TOWN PLANNING BOARD DATED JUNE 18, 2019.

JANET ANDERSEN, CHAIRPERSON — DATE

CIORSDAN CONRAN, SECRETARY — DATE

GENERAL DISCLAIMER:

Calculations have been performed according to IES standards and good practice Some differences between measured values and calculated results may occur due to tolerances in calculation methods, testing procedures, component performance, measurement techniques and field conditions such as voltage and temperature variations. Input data used to generate the attached calculations such as room dimensions, reflectances, furniture and architectural elements significantly affect the lighting calculations. If the real environment conditions do not match the input data, differences will occur between measured values and calculated values.

* LLF Determined Using Current Published Lamp Data

NOTE TO REVIEWER:

Total Light Loss Factor (LLF) applied at time of design is determined by applying the Lamp Lumen Depreciation (LLD) from current lamp manufacturer's catalog, a Luminaire Dirt Depreciation Factor (LDD) based on IES recommended values and a Ballast Factor (BF) from current ballast specification sheets. Application of an incorrect Light Loss Factor (LLF) will result in forecasts of performance that will not accurately depict actual results.

For proper comparison of photometric layouts, it is essential that you insist all designers use correct Light Loss Factors.

REVISIONS:

REV. X XX-XX-XX XXXXX

APEX LIGHTING SOLUTIONS
THE POINT WHERE ALL ASCENDING LINES CONVERGE
20-30 BEAVER ROAD
WETHERSFIELD, CT 06109
TELEPHONE 860.632.8766
FACSIMILIE 860.632.8236
www.apexltg.com

PROJECT TITLE:

GOSSETT NURSERY
SOUTH SALEM, NY

DRAWING TITLE:

EXTERIOR LIGHTING
PHOTOMETRIC CALCULATION

FILE NAME: SL5 GOSSETT NURSERY - SOUTH SALEM NY CALC CTR 11-10-20.dwg

SCALE : 1/16"=1'-0"

DATE: 11/10/20

DRAWN BY: CTR

SHEET:

SL-5

GOSSETT BROTHERS NURSERY

COMPLETE GARDEN CENTER T 914-763-3001 • F 914-763-9003

NURSERY, LANDSCAPING, MASONRY, EXCAVATION www.gossettnursery.com

To: **Lewisboro Planning Board**

79 Bouton Rd
South Salem, New York
10590
08/24/2020

GOSSETT BROTHERS NURSERY

BUSINESS PLAN

Gossett Brothers Nursery is a seasonal garden nursery selling plants, flowers, shrubs trees and miscellaneous garden retail. Delivery of such merchandise usually occurs early morning on weekdays, most frequently before business hours. Delivery of annuals, perennials and small shrubs are taken at the far end of the parking lot and large shrubs and trees are taken behind the pond.

The nursery is open from April through December; business hours are 9 A.M. to 5 P.M. Typically, the busiest period is May through Mid-June. Peak times at the nursery take place between 10 A.M. and 2:00 P.M. on weekends, during which 8-10 parking spots are occupied plus 2-4 spaces in the back for retail employees. Mother's Day and the four weekends leading to Christmas in December are the busiest days of the year at Gossett's; a maximum of 20-25 parking spaces are filled during this time. The Nursery also hosts a farmers' market on Saturdays and Wednesdays from 9 A.M. to 1 P.M. during which time 5-10 vendors attend and park their vehicles in the back for the four hours during the market. During peak hours, the Nursery has and will continue to provide parking attendants as necessary. Gossett Brothers Nursery currently staffs three full-time employees and two part-time employees.

To: Lewisboro Planning Board
79 Bouton Rd
South Salem, New York
10590

09/24/20

South Salem Winery

1202 Old Post road

South Salem, New York 10590

South Salem Winery is a licensed NYS micro winery. Making wine from at least 80% NYS grapes . The winery will offer wine tastings and pairings, wine by the glass, and food (as required by the State Liquor Authority). Wine tastings will be by appointment only. We estimate 2-4 parking spaces will be needed during tastings and 6-8 parking spaces for events. The winery will be open from April through December. Business hours for the winery will be Friday Saturday and Sunday from 3:00 PM to 8:00 PM. The winery will have seating for 25 people and handicap access. Private events will be offered after nursery hours from 5pm to 10pm. The winery will produce approximately 600 gallons of NYS wine per year.The NYS grape harvest usually takes place from mid September to mid October during this all the wine for the year is made. All of which will be sold directly out of the winery/nursery.The winery has two full time employees . Apart from wine and food, SSW t-shirts and wine glasses will be offered for retail sale. The winery will offer food of substance as required by SLA law. Examples of these foods will be charcuterie, cheese plates and other light fare.

AFFIRMATION OF MAILING OF PUBLIC HEARING NOTICE

MICHAEL FULLER SIRIGNANO, an attorney duly admitted to practice in the Courts of the State of New York, affirms the following to be true under penalties of perjury:

Affirmant is not a party to these applications, is over 18 years of age, and maintains his law office in Cross River, New York.

That on 30th day of November, 2020 Affirmant served true copies of the within document(s), to wit: Notice of Public Hearing to be conducted by the Town of Lewisboro Planning Board in the Application by Thomas Gossett Revocable trust for Site Development Plan Approval (Cal #03-20 PB) and Wetland Permit (Cal #37-20 WP).

upon the persons or attorneys indicated below, and at the address(es) indicated in the annexed List, in the following manner:

X by mailing the same in a sealed envelope, with postage prepaid thereon, in a post office or official depository of the United States Postal Service, within the State of New York, addressed as indicated below;

X by certified mail, return receipt requested (and annexed), similarly posted;

__ by delivering the same personally by hand to the person(s) and at the address(es) indicated;

__ by Facsimile Service

__ via Federal Express AND ALSO BY MAIL

MICHAEL FULLER SIRIGNANO

Affirmed to be True:
Cross River, New York
November 30, 2020

Patricia G. & John Beltramello, Jr.
Trustee
4625 Lightkeepers Way, Apt. 7F
Little River, SC 29566

Marylix V. Zappia
1195 Route 35
South Salem, NY 10590

South Salem Fire Department
PO Box 191
South Salem, NY 10590

Town of Lewisboro
11 Main Street
South Salem, NY 10590

Paul and Lynne Geaney
47 Bouton Road
South Salem, NY 10590

Benjamin & Thomas Belloni
Arwen Belloni
1205 Route 35
South Salem, NY 10590

Ronnie W. and Lancelot C. A. Thompson, Jr.
1185 Route 35
South Salem, NY 10590

Maria & Javier Valencia
1196 Route 35
South Salem, NY 10590

Rahul & Rampal Poonam Lakhanpal
1191 Route 35
South Salem, NY 10590

Beverly B. & Mizell Wilson, Jr.
57 Bouton Road
South Salem, NY 10590

Christopher Lillis and Carolyn Meatto
47 Spring Street
South Salem, NY 10590

Kenneth Jacobson
46-20 216th Street
Bayside, NY 11361

Peter M. and Jane E. Brady
45 Bouton Road
South Salem, NY 10590

Javaheri & Beigi Pargol
Homayoon Saatchi
49 Bouton Road
South Salem, NY 10590

Armando G. & Aso Jimenez
Machiko Jimenez
1193 Route 35
South Salem, NY 10590

Farvue Farm LLC
c/o Bonnie Orleans
8308 Lilac Lane
Alexandria, VA 22308

Priscilla Lugo & Peter R. McCue, III
1203 Route 35
South Salem, NY 10590

Stephen N. & Melissa H. Leavy
PO Box 33
South Salem, NY 10590

Scott & Michelle Sobocinski
69 Spring Street South
South Salem, NY 10590

Michael & Corrie Liffland
1187 Route 35
South Salem, NY 10590

TOWN OF LEWISBORO

NOTICE OF PUBLIC HEARING

NOTICE IS HEREBY GIVEN that the Planning Board of the Town of Lewisboro, Westchester County, New York will convene a Public Hearing on Tuesday, December 15, 2020 at 7:30 p.m., or soon thereafter, using the videoconferencing app Zoom, regarding the following:

Cal #03-20PB, Cal #37-20WP
Application for Site Development Plan Approval and Wetland Permit to Gossett Brothers Nursery at 1202 Route 35, South Salem, NY 10590, Sheet 31, Block 10805, Lot 46 (Thomas Gossett Revocable Trust, owner of record) for an existing landscape nursery to formalize its existing nursery use, establish a 30-seat accessory winery, install a water treatment system and wastewater holding tank for the winery. The subject property consists of approx. 5.5 acres and is located in a Two-Acre Residential (R-2A) Zoning District.

Due to public health and safety concerns related to the COVID-19 virus, the Planning Board will not be meeting in person. Per Governor Cuomo's Executive Order No. 202.1, this meeting will be held via Zoom and a transcript will be provided at a later date. The public will have the opportunity to review digital copies of materials and proposed site documents at https://www.lewisborogov.com/planningboard

Interested members of the public are encouraged to provide written comments prior to and during the virtual public hearing by emailing Ciorsdan Conran, Planning Board Administrator, at planning@lewisborogov.com Please check the meeting agenda posted on the Board's web page for additional instructions and updates.

The public may view or participate through the Zoom app at https://zoom.us/j/98541138858?pwd=Y1VidHA1dXJjaXBTR0RTdFJjcUlFdz09 by clicking "Join a Meeting," and entering Meeting ID: 985 4113 8858 Passcode: 515716. You may call in to the Zoom meeting at 1-929-205-6099 when prompted, enter Meeting ID: 985 4113 8858 Passcode: 515716.

Persons wishing to object to the application should file a notice of objection with the Planning Board together with a statement of the grounds of objection prior to the closing of the Public Hearing. All interested parties are encouraged to view the Public Hearing and all will be provided an opportunity to be heard.

PLANNING BOARD
TOWN OF LEWISBORO
By: Janet Andersen
Chair

Dated: November 23, 2020

The Town of Lewisboro is committed to equal access for all citizens. Anyone needing accommodations to view or participate in this meeting is encouraged to notify the Administrator to the Planning Board in advance.

7020 1290 0001 7571 3997

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11/30/2020

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Street and Apt. No., or PO Box No.: 1203 Route 35
City, State, ZIP+4®: So. Salem, NY 10590

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

7020 1290 0001 7571 4062

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South Salem, NY 10590

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$	$2.85	5
Extra Services & Fees (check box, add fee as appropriate)		
☐ Return Receipt (hardcopy)	$ $0.00	
☐ Return Receipt (electronic)	$ $0.00	Postmark Here
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☐ Adult Signature Required	$ $0.00	
☐ Adult Signature Restricted Delivery	$	
Postage $	$0.55	11/30/2020
Total Postage and Fees $	$6.95	

Sent To: Scott & Michelle Sobocinski
Street and Apt. No., or PO Box No.: 69 Spring St South
City, State, ZIP+4®: So. Salem, NY 10590

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$	$2.85	5
Extra Services & Fees (check box, add fee as appropriate)		
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☐ Return Receipt (electronic)	$ $0.00	Postmark Here
☐ Certified Mail Restricted Delivery	$ $0.00	
☐ Adult Signature Required	$ $0.00	
☐ Adult Signature Restricted Delivery	$	
Postage $	$0.55	11/30/2020
Total Postage and Fees $	$6.95	

Sent To: Michelle & Carrie Liffland
Street and Apt. No., or PO Box No.: 1218 Route 35
City, State, ZIP+4®: So. Salem, NY 10590

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Little River, SC 29566

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$	$2.85	5
Extra Services & Fees (check box, add fee as appropriate)		
☐ Return Receipt (hardcopy)	$ $0.00	
☐ Return Receipt (electronic)	$ $0.00	Postmark Here
☐ Certified Mail Restricted Delivery	$ $0.00	
☐ Adult Signature Required	$ $0.00	
☐ Adult Signature Restricted Delivery	$	
Postage $	$0.55	11/30/2020
Total Postage and Fees $	$6.95	

Sent To: Patricia & John Beltramello, III
Street and Apt. No., or PO Box No.: 4625 Lightkeepers Way, Apt. 7F [illegible]
City, State, ZIP+4®: Little River, SC 29566

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

7020 1290 0001 7571 4093

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South Salem, NY 10590

OFFICIAL USE

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$	$2.85	5
Extra Services & Fees (check box, add fee as appropriate)		
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☐ Return Receipt (electronic)	$ $0.00	Postmark Here
☐ Certified Mail Restricted Delivery	$ $0.00	
☐ Adult Signature Required	$ $0.00	
☐ Adult Signature Restricted Delivery	$	
Postage $	$0.55	11/30/2020
Total Postage and Fees $	$6.95	

Sent To: Marylux V. Zappia
Street and Apt. No., or PO Box No.: 1195 Route 35
City, State, ZIP+4®: So. Salem, NY 10590

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- Adult Signature Required $0.00
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Postage $0.55

Total Postage and Fees $6.95

Postmark Here: 0026 5 11/30/2020

Sent To: So. Salem Fire Dept.
Street and Apt. No., or PO Box No.: PO Box 191
City, State, ZIP+4®: So. Salem, NY 10590

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- Certified Mail Restricted Delivery $0.00
- Adult Signature Required $0.00
- Adult Signature Restricted Delivery $

Postage $0.55

Total Postage and Fees $6.95

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Sent To: Town of Lewisboro
Street and Apt. No., or PO Box No.: 11 Main St
City, State, ZIP+4®: So. Salem, NY 10590

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

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- Return Receipt (electronic) $0.00
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- Adult Signature Required $0.00
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Postage $0.55

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Sent To: Paul & Lynne Geaney
Street and Apt. No., or PO Box No.: 2 Baxter Road
City, State, ZIP+4®: So. Salem, NY 10590

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- Adult Signature Required $0.00
- Adult Signature Restricted Delivery $

Postage $0.55

Total Postage and Fees $6.95

Postmark Here: 0026 5 11/30/2020

Sent To: Benjamin & Thomas Belden, Arwen Belden
Street and Apt. No., or PO Box No.: 1203 Route 35
City, State, ZIP+4®: So. Salem, NY 10590

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- Return Receipt (electronic)
- Certified Mail Restricted Delivery
- Adult Signature Required
- Adult Signature Restricted Delivery $

Postage

Total Postage and Fees

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Sent To: Renne W & Lancelot C.A. Thompson, Jr.
Street and Apt. No., or PO Box No.: 185 Route 35
City, State, ZIP+4®: So. Salem, NY 10590

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- Certified Mail Restricted Delivery $0.00
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- Adult Signature Restricted Delivery $

Postage $0.55

Total Postage and Fees $6.95

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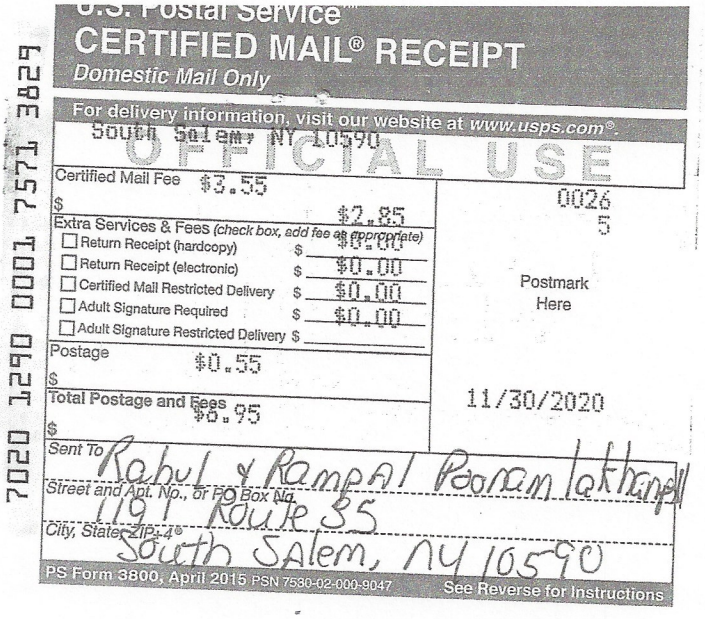
Sent To: Maria J Javier Valencia
Street and Apt. No., or PO Box No.: 1990 Route 35
City, State, ZIP+4®: So. Salem, NY 10590

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

7020 1290 0001 7571 3812



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- ☐ Adult Signature Restricted Delivery $

Postage $0.55
Total Postage and Fees $6.95

0026
5

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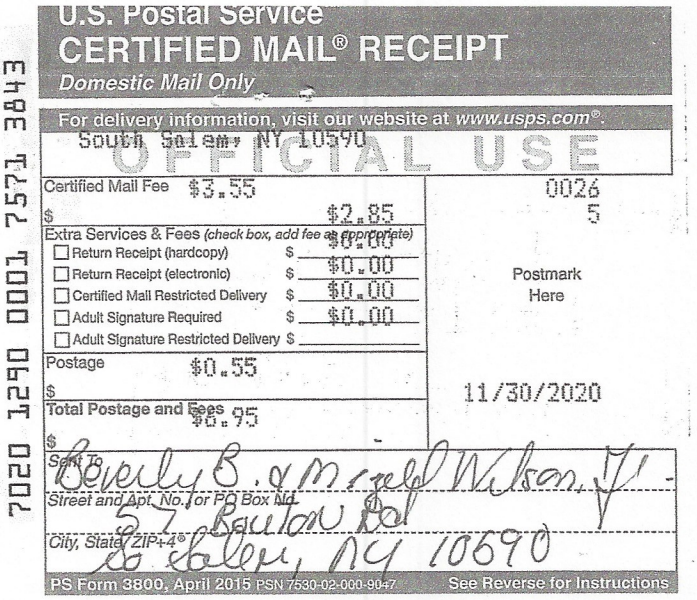
11/30/2020

Sent To Rahul & Rampal Poonam Lokhandwala
Street and Apt. No., or PO Box No. 1191 Route 35
City, State, ZIP+4® South Salem, NY 10590

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

7020 1290 0001 7571 3829



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- ☐ Certified Mail Restricted Delivery $0.00
- ☐ Adult Signature Required $0.00
- ☐ Adult Signature Restricted Delivery $

Postage $0.55
Total Postage and Fees $6.95

0026
5

Postmark Here

11/30/2020

Sent To Beverly B. & Mirell Wilson, JT
Street and Apt. No., or PO Box No. 57 Boulton Rd
City, State, ZIP+4® So Salem, NY 10590

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

7020 1290 0001 7571 3843

Form BZ-BA-5-8/63-500

APPL. NO. 19-63

TOWN OF LEWISBORO

WESTCHESTER COUNTY

NEW YORK

BUILDING ZONE ORDINANCE

October 18 19 63

To the Building Inspector and the Board of Appeals of the Town of Lewisboro, Westchester County, New York:—

TAKE NOTICE that I

Name Ralph Bratberg Jr.

Hereby appeal to the Board of Appeals from the decision of the Building Inspector of the said Town of Lewisboro—

In the matter of the denial of an application to construct a greenhouse on Lot 46 in Block 10805

I hereby file with you this notice hereof

Dated October 18 1963

Ralph Bratberg Jr.
Signature

Residing at

Minutes of the Board of Appeals of the Town of Lewisboro

Meeting held on Tuesday, November 19, 1963, at 8:30 P.M. in the Town House, South Salem, New York.

Present: Messrs. Morgan Parker, Chairman, Oliver J. Peck, Robert F. Neukirch, William Rowedder and John Benish.
Absent: None.

The minutes of the preceding meeting held on the 12th day of November, 1963, having been previously approved by the members of the Board, reading at this meeting was waived.

CASE BEFORE THE BOARD

Cal. 19-63-BZ

Applicant: Ralph Bratberg, Jr., owner of the premises in question.

Subject: An application for a special permit under Article XVI, Section 2(v) of the Zoning Ordinance of the Town of Lewisboro to permit the construction of a greenhouse in connection with the operation of a nursery in an R-2 district for which he held a special permit previously granted by this Board.

Premises affected: Property located on the northerly side of Route 35, South Salem, New York, designated on the Tax Map of the Town of Lewisboro as Lot No. 46 in Block No. 10805 on Sheet No. 31.

Appearances:
For applicant: Ralph Bratberg, Jr., owner and applicant herein. A. Cuoco, as an immediately affected landowner.
In opposition: None.
As a friend of the Board: Westchester County Planning Board, by communication dated November 14, 1963, no recommendation.

Action of the Board: Special permit granted.

The Vote:
In favor.....5
In opposition.....0

The Resolution: WHEREAS, Ralph Bratberg, Jr., the applicant herein, did on the 21st day of October, 1963, file with this Board an application for a special permit under Article XVI, Section 2(v) of the Zoning Ordinance of the Town of Lewisboro to permit the construction and operation of a greenhouse in connection with a nursery on the premises in question presently operating under special permit previously granted by this Board, on property located on the northerly side of Route 35, South Salem, New York, and shown on the Tax Map of the Town of Lewisboro as Lot No. 46 in Block No. 10805 on Sheet No. 31, in an R-2 district; and

WHEREAS, the lot in question is well known to this Board; and

WHEREAS, after due notice and publication in the official paper of the Town of Lewisboro on the 14th day of November, 1963, public hearing thereon was held on the 19th day of November, 1963; and

WHEREAS, Ralph Bratberg, Jr., the applicant herein, appearing before the Board at the said hearing, did explain that the operation of the nursery for which the Board had previously granted him a special permit, needed a greenhouse for starting certain plants earlier in the spring than could be done in the open and for their further occasional necessary protection, and that it would not be a hothouse and would have no artificial heating plant, but would depend on the sun for such heat as it would need, in accordance with the usual practice for greenhouses; and

WHEREAS, upon questioning, the applicant did further explain that because of the necessity for sunlight for good growing, as explained, such a greenhouse would need to be on the south side rather than the north side of the existing shed, that it would have an eight inch block foundation with curved glass construction at appropriate corners and would stand behind the nursery crops in front so that it would either not show or would have a good appearance from the road, and that it would be about ten feet high, or two to three feet lower than the existing shed, and would be about twenty-five feet wide by thirty-five feet long; and

WHEREAS, A. Cuoco, as an immediately affected neighbor having a residence directly across Route 35 from the property in question, did state that he had no objection to such a greenhouse, and there were no other witnesses present either in objection to or in favor of the permit sought; and

WHEREAS, the Westchester County Planning Board did by post card dated November 14, 1963, make no recommendation with regard to the granting of the permit sought; and

WHEREAS, the Board having given consideration to all the evidence before it finds that the proposed greenhouse is desirable for the full operation of the present nursery, that it should be placed on the southern side of the present shed as requested, that it will not affect the surrounding residential property and that no useful purpose would be served by denial of the permit requested:

Now, therefore, be it

RESOLVED that the special permit sought be and it is hereby granted for the duration of the present special permit for the nursery involved, and the Building Inspector be and he is hereby authorized to issue certificates of construction and occupancy accordingly.

All members concurring.

So ordered this 16th day of December, 1963.

Morgan Parker

Morgan Parker, Chairman

Exhibit Defendant's

TOWN OF LEWISBORO
WESTCHESTER COUNTY, N. Y.

ZONING BOARD OF APPEALS
South Salem, N. Y.

Telephone
SOuth Salem 3-3511

TO:

NOTICE IS HEREBY GIVEN that the Zoning Board of Appeals of the Town of Lewisboro will hold a public hearing on November 19th, 1963, at 8:30 P.M. at the Town House, South Salem, New York to consider the following:

CAL. #19-63 B.Z.

Application of Ralph Eratberg, Jr., owner, of South Salem, New York for a special permit under Article XVI, Section 2 (v) of the Zoning Ordinance of the Town of Lewisboro to permit the construction of a greenhouse for growing and display of plants on property located in an R-2 District. The property is located on the northerly side of Route #35, South Salem, N. Y. and designated on the Tax Map of the Town of Lewisboro as Lot 46, in Block 10805, on Sheet 31.

At such hearing all interested parties may attend and will be heard.

ZONING BOARD OF APPEALS
TOWN OF LEWISBORO
Norman Parker, Chairman

Dated at South Salem, New York
this 14th day of November, 1963.

10805 - 46

ZONING BOARD OF APPEALS

TOWN OF LEWISBORO

Cal. No. 9-73 B.Z.

In the Matter of

Application of Ralph Bratberg, Jr., South Salem, N.Y., for a Special Permit pursuant to Article XVI, Section 2 (v) of the Zoning Ordinance of Lewisboro.

Public Hearing held on June 13, 1973, at 8:30 P.M. at the Town House, South Salem, N.Y.

Board Members present: William Rowedder, Chairman
Russell Raynor, Paul Lewis,
Averill Williams, Enzo Allegretti

Absent: None

Appearances: For Applicant: Ralph Bratberg, Jr. as the applicant

In Opposition: None

References: Transcript of testimony prescribed at the hearing consisting of 2 pages

Action of the Board: Special Permit renewed

The Vote:

Affirmative.....5
Negative.....0
Absent.....0

Nature of Application - Findings and Conclusion

This is an application for renewal of a special permit for sales and display office for a nursery operation on property located on the northerly side of Route No. 35, South Salem, N.Y. which is designated on the Tax Map of the Town of Lewisboro as Lot 46, in Block 10805, on Sheet 31, in an R-2 (2 acre) Residential District. The property is owned by Ralph, Jr. and Joan T. Bratberg, South Salem, N.Y.

The Board heard Mr. Bratberg as the applicant in support of his application who stated that he wishes to continue the nursery operation in the same manner as permitted under previous permits. No objection to the renewal of permit was placed before the Board.

The Board finds that the operation conducted by applicant was first authorized by its resolution dated 2/23/1961 (Cal. 1-61); the permit was renewed on 1/7/63 (Cal. 14-62). On December 16, 1963, permit for construction of a greenhouse was issued, (Cal. 19-63) in connection with the nursery conducted by applicant. The special use permit was kept valid by a further extension under Cal. 1-68. The Board determines that if all the conditions of the original permit with renewals were continued, no objection to the renewal sought under this application would exist and that the granting thereof will not be inconsistent with the provisions of the Ordinance.

It is therefore Resolved that the renewal of the permit sought be and it is hereby granted in accordance with Article XVI, Section 2 (v) of the Ordinance.

Dated: South Salem, N.Y.
June 26, 1973

William Poweder, Chairman

NOTICE OF HEARING

NOTICE IS HEREBY GIVEN that the Zoning Board of Appeals of the Town of Lewisboro will hold a Public Hearing at the Town House, Main Street, South Salem, N. Y. on June 13th, 1973, at 8:30 P.M. on the following:

CAL. #9-73 P.Z.

Application of Ralph Bratberg, Jr., South Salem, N. Y. for a Special Permit pursuant to Article XVI, Section 2(v) of the Zoning Ordinance, for a renewal of a special permit for sales and display office for a nursery operation. The property is located on the northerly side of Route #35, South Salem, N. Y., designated on the Tax Map as Lot 46, in Block 10805, on Sheet 31, in an R-2 (2 acre) Residential District.

At such hearing all interested parties may attend and will be heard.

ZONING BOARD OF APPEALS
TOWN OF LEWISBORO
WILLIAM ROWEDDER, CHAIRMAN.

Dated at South Salem, N. Y.
this 24th day of May, 1973.

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

WRITER'S E-MAIL ADDRESS

msheridan@snyderlaw.net

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)

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

REPLY TO:

Tarrytown office

November 17, 2020

Hon. Chair Janet Andersen
and Members of the Planning Board
Town of Lewisboro
79 Bouton Road
South Salem, NY 10590

RE: Special Use Permit Approval and Renewal (Cal. #10-10 P.B.)
New York SMSA Limited Partnership d/b/a Verizon Wireless'
Existing Wireless Telecommunications Facility on the Tower
Located at 377 Smith Ridge Road, Lewisboro, New York ("Property")

Dear Honorable Chair Andersen
And Members of the Planning Board:

We are the attorneys for New York SMSA Limited Partnership d/b/a Verizon Wireless ("Verizon Wireless") in connection with its application to renew the special use permit ("Renewal") for its existing public utility wireless telecommunications facility ("Facility") at the Property. In connection with the foregoing, we are in receipt of a memo dated November 12, 2020, from the Planning Board's consultant, Kellard Sessions ("Consultant Memo"), which contain comments with regard to the requested Renewal.

In response to the comments contained in the Consultant's Memo, kindly note the following:

Comment
1. On Page 1 of 3 of the Short Environmental Assessment Form (EAF), the applicant shall respond to Question 3 numerically. "NA" is not a sufficient response.

Response
Attached hereto as Exhibit 1 is a revised Short EAF, which now includes a numerical response to Question 3.

Comment:
2.On behalf of the Planning Board, the applicant shall submit Part 2 of the Short EAF.

Response:
Attached hereto as part of Exhibit 1 is Part 2 of the Short EAF.

Comment:
3. We note that the submitted Structural Report prepared by Structural Consulting Services, P.C., does not certify the structural integrity of the tower and the equipment attached to it. The report makes reference to a previous report prepared by another engineering firm and states that based on a site visit "...the existing antenna loading observed on the tower appeared to match the loading use in the most recent structural analysis report on the tower...". It is recommended that a more definitive certification be provided and that any referenced reports be submitted.

Response:
Attached hereto as Exhibit 2 is a revised structural certification, prepared by Structural Consulting Services, P.C., with a revised date of November 13, 2020, that has been updated to note that "[t]he existing antenna loading observed on the tower is consistent with the antenna loading in the most recent structural analysis report on the monopole." Such certification now also includes a copy of the most recent structural analysis prepared for InSite Towers, LLC dated March 11, 2020.

Comment
4. Consistent with past actions of the Board on similar antenna renewal applications, provided the above information in submitted and is satisfactory, it is recommended that the Special Use Permit Renewal for Verizon Wireless be approved indefinitely.

Response:
This comment requires no response.

Based on the foregoing, it is respectfully requested that this Honorable Board approve of the requested Renewal. If you have any questions, please do not hesitate to contact me or Leslie Snyder at (914) 333-0700.

Respectfully submitted,
Snyder & Snyder, LLP

By: _____
Michael P. Sheridan

MS: sm
Enclosures
cc: Verizon Wireless
Z:\SSDATA\WPDATA\SS4\WP\NEWBANM\Joe Rollins\LTE Zoning Analyses\East Woods\Special Permit Renewal 2020\PB Response Letter 11.17.2020.ms.doc

EXHIBIT 1
Revised EAF with Part 2

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:
Verizon Wireless Special Permit Renewal for Existing Public Utility Wireless Telecommunications Facility

Project Location (describe, and attach a location map):
377 Smith Ridge Road, Lewisboro, NY

Brief Description of Proposed Action:
The proposed action consists of the renewal of the special permit (Cal. #10-10PB) for Verizon Wireless' existing public utility wireless telecommunications facility ("Facility") at the subject property.

Name of Applicant or Sponsor:	Telephone: 914-333-0700
New York SMSA Limited Partnership d/b/a Verizon Wireless	E-Mail: msheridan@snyderlaw.net

Address:
c/o Snyder & Snyder, LLP, 94 White Plains Road

City/PO:	State:	Zip Code:
Tarrytown	New York	10591

	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 government Agency? If Yes, list agency(s) name and permit or approval:	☑	☐

3. a. Total acreage of the site of the proposed action? ~0.08 acres
   b. Total acreage to be physically disturbed? 0 acres
   c. Total acreage (project site and any contiguous properties) owned or controlled by the applicant or project sponsor? ~0.08 acres

4. Check all land uses that occur on, are adjoining or near the proposed action:

5. ☐ Urban ☐ Rural (non-agriculture) ☐ Industrial ☐ Commercial ☑ Residential (suburban)
   ☐ Forest ☐ Agriculture ☐ Aquatic ☑ Other(Specify): Wireless Telecommunications Facility
   ☐ 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?	☐	☑	☐

	NO	YES
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?	☑	☐
b. Are public transportation services available at or near the site of the proposed action?	☐	☑
c. Are any pedestrian accommodations or bicycle routes available on or near the site of the proposed action?	☑	☐

	NO	YES
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:		
The Facility meets the state energy code requirements.	☐	☑

	NO	YES
10. Will the proposed action connect to an existing public/private water supply?		
If No, describe method for providing potable water:		
The Facility is unmanned therefore potable water is not required.	☑	☐

	NO	YES
11. Will the proposed action connect to existing wastewater utilities?		
If No, describe method for providing wastewater treatment:		
The Facility is unmanned therefore wastewater treatment is not required.	☑	☐

	NO	YES
12. a. Does the project site contain, or is it substantially contiguous to, a building, archaeological site, or district which is listed on the National or State Register of Historic Places, or that has been determined by the Commissioner of the NYS Office of Parks, Recreation and Historic Preservation to be eligible for listing on the State Register of Historic Places?	☑	☐
b. Is the project site, or any portion of it, located in or adjacent to an area designated as sensitive for archaeological sites on the NY State Historic Preservation Office (SHPO) archaeological site inventory?	☑	☐

	NO	YES
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?	☐	☑ *
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: _____		

* N/A to renewal of special permit for existing Facility.

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

	NO	YES
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?	☑	☐
16. Is the project site located in the 100-year flood plan?	☑	☐
17. Will the proposed action create storm water discharge, either from point or non-point sources?	☑	☐
If Yes,		
a. Will storm water discharges flow to adjacent properties?	☐	☐
b. Will storm water discharges be directed to established conveyance systems (runoff and storm drains)?	☐	☐
If Yes, briefly describe:		
18. Does the proposed action include construction or other activities that would result in the impoundment of water or other liquids (e.g., retention pond, waste lagoon, dam)?	☑	☐
If Yes, explain the purpose and size of the impoundment:		
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 CERTIFY THAT THE INFORMATION PROVIDED ABOVE IS TRUE AND ACCURATE TO THE BEST OF MY KNOWLEDGE

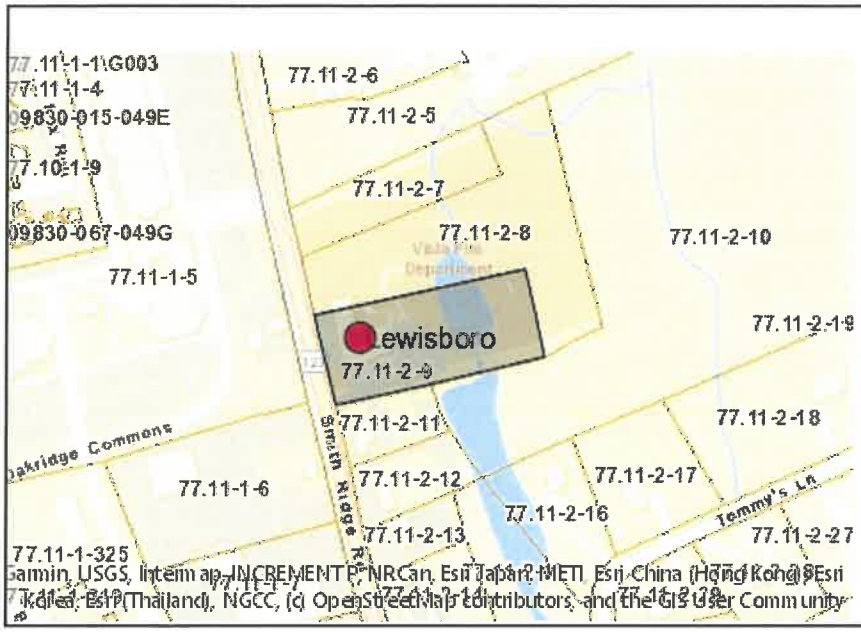
Applicant/sponsor/name: New York SMSA Limited Partnership d/b/a Verizon Wireless Date: 11/17/20

Signature: Jenna Garcia Title: Princ. Engineer - NTWK Real Estate

PRINT FORM

EAF Mapper Summary Report

Friday, July 17, 2020 10:26 AM



Disclaimer: The EAF Mapper is a screening tool intended to assist project sponsors and reviewing agencies in preparing an environmental assessment form (EAF). Not all questions asked in the EAF are answered by the EAF Mapper. Additional information on any EAF question can be obtained by consulting the EAF Workbooks. Although the EAF Mapper provides the most up-to-date digital data available to DEC, you may also need to contact local or other data sources in order to obtain data not provided by the Mapper. Digital data is not a substitute for agency determinations.

Part 1 / Question 7 [Critical Environmental Area]	No
Part 1 / Question 12a [National or State Register of Historic Places or State Eligible Sites]	No
Part 1 / Question 12b [Archeological Sites]	No
Part 1 / Question 13a [Wetlands or Other Regulated Waterbodies]	Yes - Digital mapping information on local and federal wetlands and waterbodies is known to be incomplete. Refer to EAF Workbook.
Part 1 / Question 15 [Threatened or Endangered Animal]	No
Part 1 / Question 16 [100 Year Flood Plain]	No
Part 1 / Question 20 [Remediation Site]	No

Agency Use Only [If applicable]

Project:

Date:

Short Environmental Assessment Form
Part 2 - Impact Assessment

Part 2 is to be completed by the Lead Agency.
Answer all of the following questions in Part 2 using the information contained in Part 1 and other materials submitted by the project sponsor or otherwise available to the reviewer. When answering the questions the reviewer should be guided by the concept "Have my responses been reasonable considering the scale and context of the proposed action?"

	No, or small impact may occur	Moderate to large impact may occur
1. Will the proposed action create a material conflict with an adopted land use plan or zoning regulations?	☑	☐
2. Will the proposed action result in a change in the use or intensity of use of land?	☑	☐
3. Will the proposed action impair the character or quality of the existing community?	☑	☐
4. Will the proposed action have an impact on the environmental characteristics that caused the establishment of a Critical Environmental Area (CEA)?	☑	☐
5. Will the proposed action result in an adverse change in the existing level of traffic or affect existing infrastructure for mass transit, biking or walkway?	☑	☐
6. Will the proposed action cause an increase in the use of energy and it fails to incorporate reasonably available energy conservation or renewable energy opportunities?	☑	☐
7. Will the proposed action impact existing: a. public / private water supplies?	☑	☐
b. public / private wastewater treatment utilities?	☑	☐
8. Will the proposed action impair the character or quality of important historic, archaeological, architectural or aesthetic resources?	☑	☐
9. Will the proposed action result in an adverse change to natural resources (e.g., wetlands, waterbodies, groundwater, air quality, flora and fauna)?	☑	☐
10. Will the proposed action result in an increase in the potential for erosion, flooding or drainage problems?	☑	☐
11. Will the proposed action create a hazard to environmental resources or human health?	☑	☐

PRINT FORM

Agency Use Only [If applicable]

Project:

Date:

Short Environmental Assessment Form
Part 3 Determination of Significance

For every question in Part 2 that was answered "moderate to large impact may occur", or if there is a need to explain why a particular element of the proposed action may or will not result in a significant adverse environmental impact, please complete Part 3. Part 3 should, in sufficient detail, identify the impact, including any measures or design elements that have been included by the project sponsor to avoid or reduce impacts. Part 3 should also explain how the lead agency determined that the impact may or will not be significant. Each potential impact should be assessed considering its setting, probability of occurring, duration, irreversibility, geographic scope and magnitude. Also consider the potential for short-term, long-term and cumulative impacts.

☐ Check this box if you have determined, based on the information and analysis above, and any supporting documentation, that the proposed action may result in one or more potentially large or significant adverse impacts and an environmental impact statement is required.

☑ Check this box if you have determined, based on the information and analysis above, and any supporting documentation, that the proposed action will not result in any significant adverse environmental impacts.

Name of Lead Agency	Date
Print or Type Name of Responsible Officer in Lead Agency	Title of Responsible Officer
Signature of Responsible Officer in Lead Agency	Signature of Preparer (if different from Responsible Officer)

PRINT FORM

EXHIBIT 2
Revised Structural Certification

S C S **STRUCTURAL CONSULTING SERVICES, P.C.**

Revised November 13, 2020
October 5, 2020

Honorable Chair Janet Andersen
And Members of the Planning Board
Town of Lewisboro
79 Bouton Road
South Salem, NY 10590

RE: New York SMSA Limited Partnership d/b/a Verizon Wireless
Site: East Woods
377 Smith Ridge Road, South Salem, NY 10590
Section 50A; Block 9834; Lots 84, 88 & 94

Honorable Chair Janet Andersen and Members of the Planning Board:

On Friday, September 25, 2020, our office visited the above referenced site to review the existing Telecommunications Facility by New York SMSA Limited Partnership d/b/a Verizon Wireless. The existing facility consists of a 150-foot monopole with antennas mounted thereon and a prefabricated equipment shelter located at the base thereof within a fenced compound together with related transmission lines, conduits, utility connections, etc. The existing antenna loading observed on the monopole is consistent with the antenna loading used in the most recent structural analysis report on the monopole prepared for InSite Towers, LLC by Bennett & Pless, Inc., Boca Raton, FL 33487, dated March 11, 2020 (copy attached), which deemed the existing monopole and its foundation to have sufficient capacity to support the antenna loading. At the time of our visit, the existing monopole and foundation appeared to be in good condition with no visually apparent signs of defects, damage or deterioration. Attached are some photographs of the monopole taken during our site visit for your reference.

Based on our review of the structural analysis report on the monopole and our review of existing conditions, we have concluded that the existing monopole and facility meet the requirements of the 2020 Building Code of New York State and that the existing structural integrity of the monopole has been maintained.

Should you have further questions, please do not hesitate to contact our office.

Sincerely,

Structural Consulting Services, P.C.

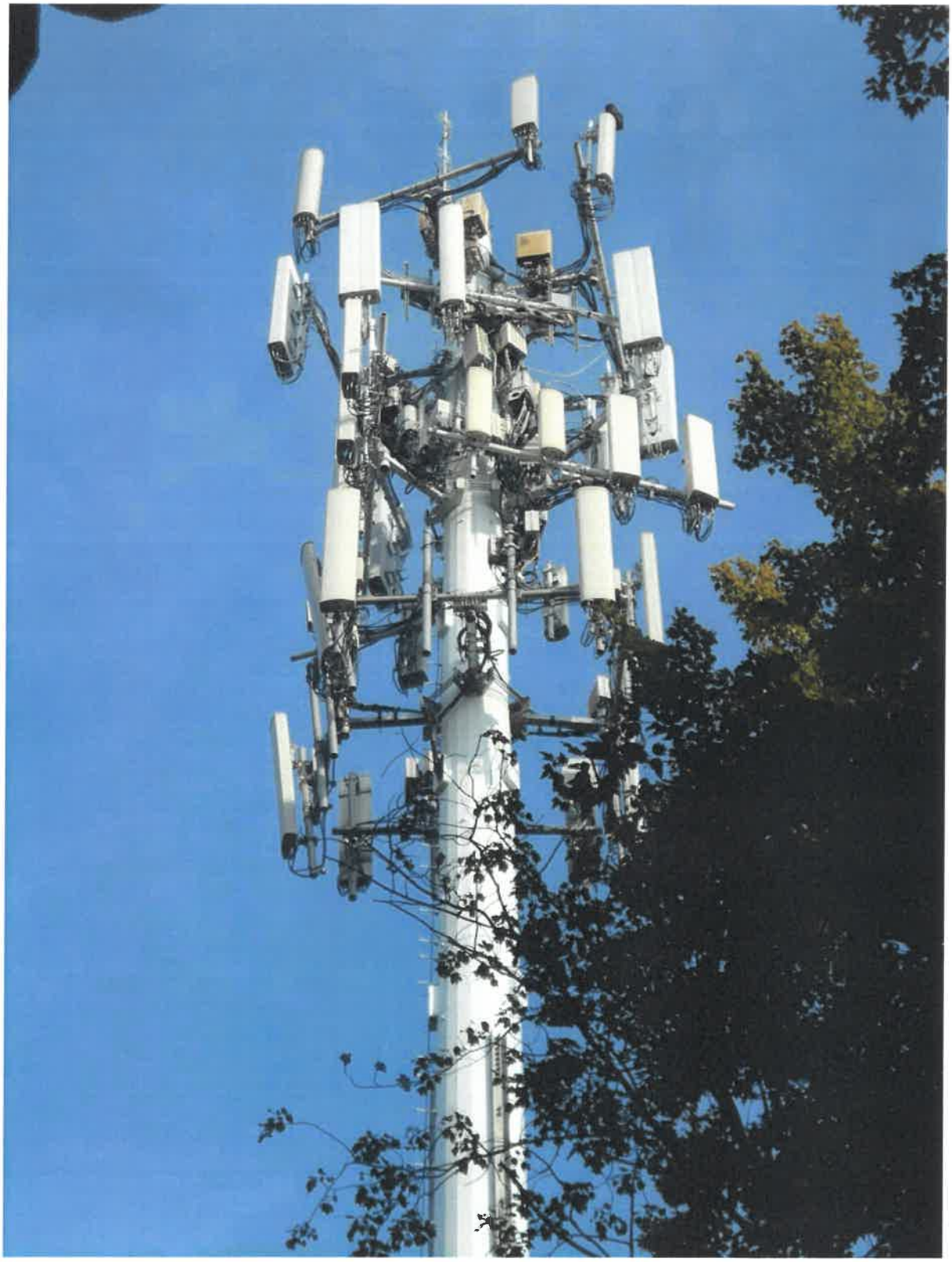
James H. Fahey, P.E., S.E.
Principal

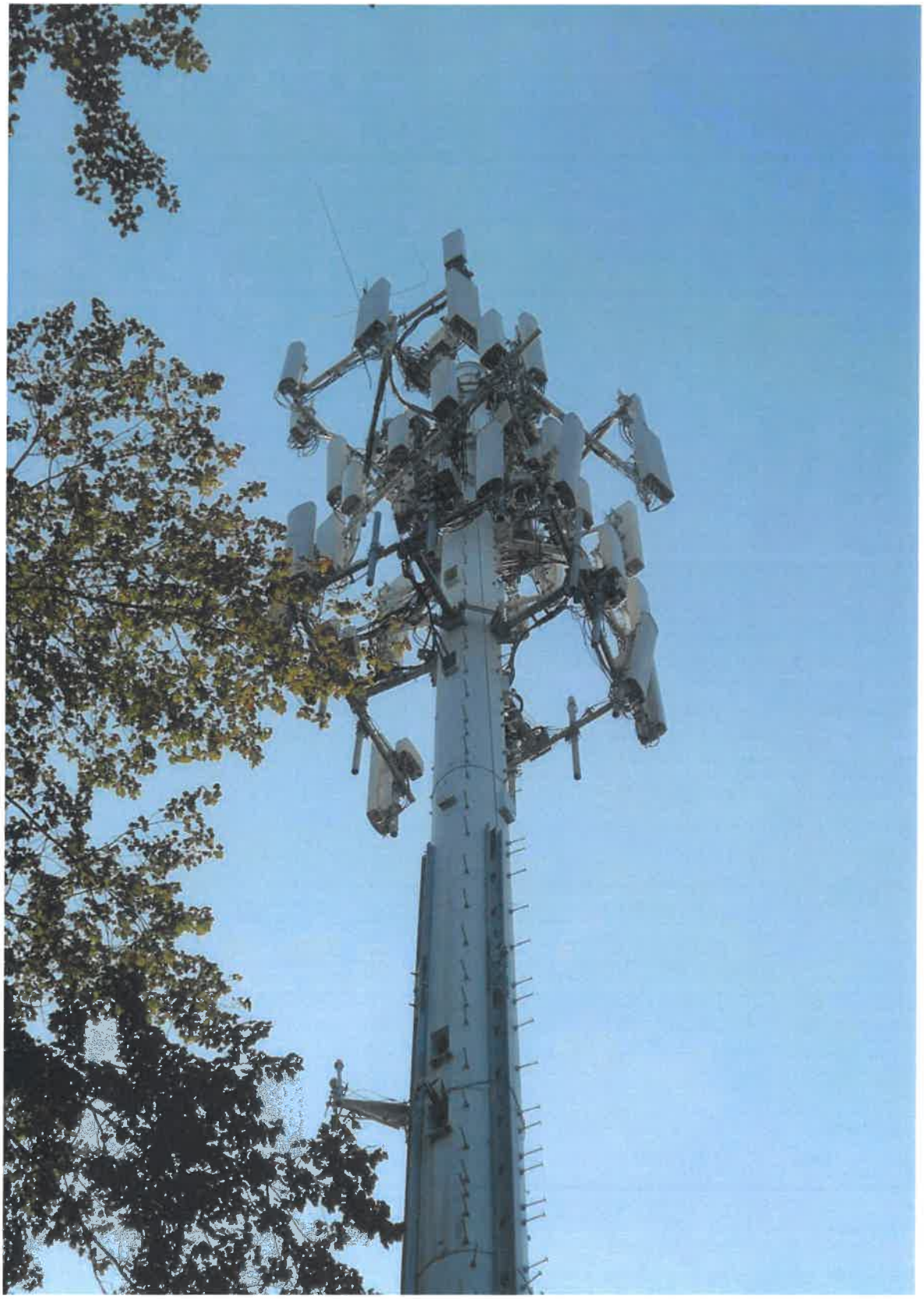
cc: Verizon Wireless
Snyder & Snyder

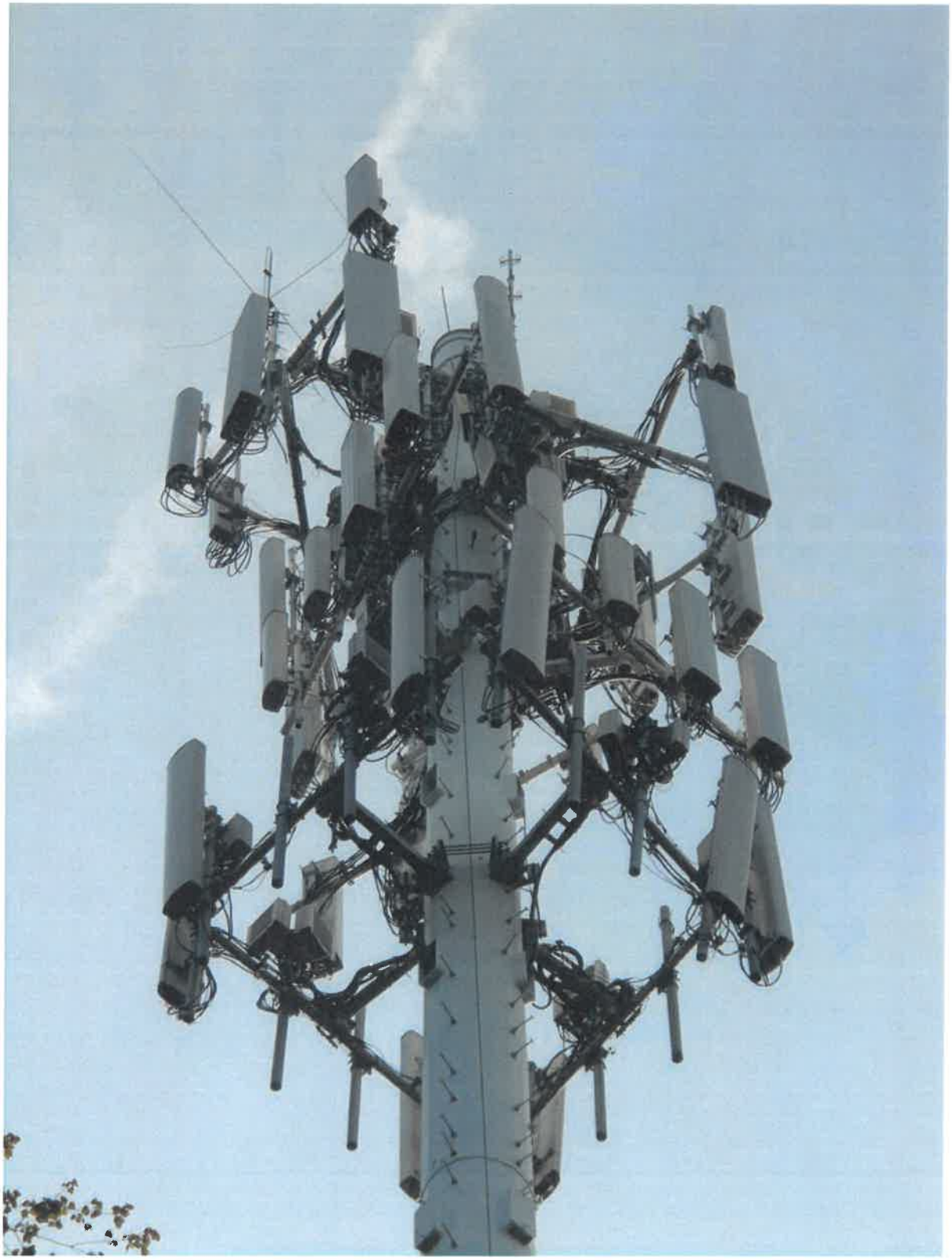
JHF/kap

Attachments

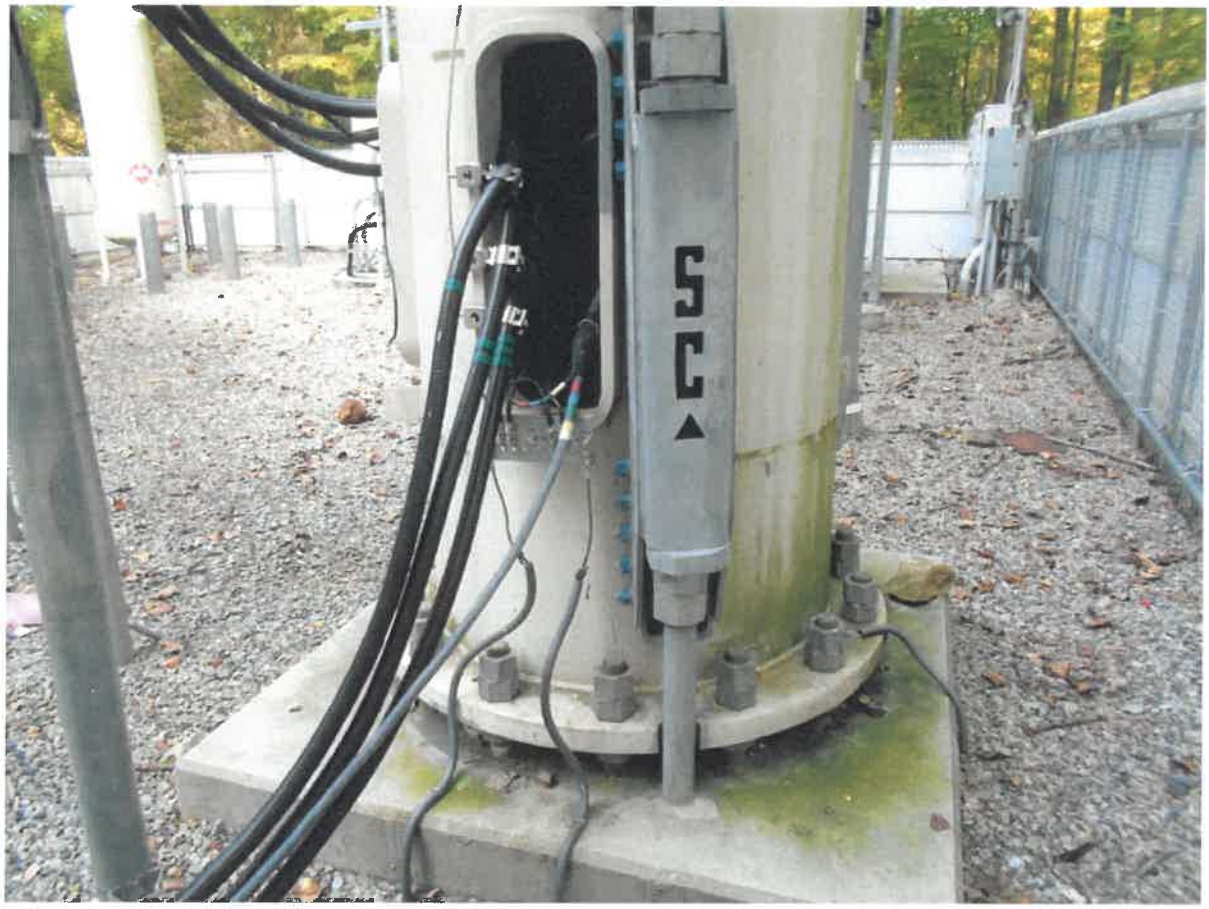
67 Federal Road, Brookfield, CT 06804
Tel: 203.740.7578 Fax: 203.775.5670








SC


SC

InSite
WIRELESS GROUP

Structural Analysis Report

Structure	: 150 Foot Monopole
Insite Site Name	: Vista
Insite Site Number	: NY001
Proposed Carrier	: Verizon Wireless
Carrier Site Name	: East Woods
Carrier Site Number	: 171228
Site Location	: 377 Smith Ridge Road South Salem, NY 10590 (Westchester County) 41.2144, -73.5151
Date	: March 11, 2020
Max Member Stress Level	: 84.6% (Tower) 92.0% (Reinforcement Bolts) 64.2% (Foundation)
Result	: **PASS**

3/11/2020

Warning: It is a violation of the law of the State of New York for any person, unless acting under the direction of a licensed professional engineer to alter an item in any way.

Prepared by:
Bennett & Pless, Inc.
B&P Job No.: 19313.018

bennett&pless
Experience Structural Expertise

Atlanta | Boca Raton | Charlotte | Chattanooga
750 Park of Commerce Drive, Suite 200, Boca Raton, FL 33487 | T: 561 282 2676 F: 561 989 0277
www.bennett-pless.com

Table of Contents

Introduction

We have completed our structural analysis of the proposed equipment installation on the foregoing tower to determine its ability to support the new loads proposed by Verizon. The objective of the analysis was to determine if the tower meets the current structural codes and standards with the proposed equipment installation.

Existing Structural Information

The following documents for the existing structure were made available for our structural analysis.

Tower Information	DaVinci Tower Drawings No. 10235-1037 dated April 8, 2010
Foundation Information	DaVinci Tower Drawings No. 10235-1037 dated April 8, 2010
Geotechnical Information	Terracon Geotechnical report Job No. J2105105 dated February 2, 2010
Existing Equipment Information	KMB Engineering Mapping report Job No. 350.0109 dated September 20, 2017 and SA report dated 350.0109.001 dated July 30, 2018.
Tower Reinforcement Information	Bennett and Pless Modification Drawings Job No. 15703.003 dated May 25, 2016.

Final Proposed Equipment Loading for Verizon

The following proposed loading was obtained from the NY001 Vista Verizon 2nd Amendment Exhibit 8.23.2019:

Antenna/Equipment					Coax	
Mount	RAD	Qty.	Antenna	Type	Qty.	Size/Type
123.5	-	3	T-Arm (12.5')	Mount	12* 6 3	1 5/8" * 1-5/8" 1-1/4" Hybrid
	123.5	**6**	**Andrew JAHH-65BR3B**	**Panel**		
		3*	Commscope SBNHH-1D65A*	Panel		
		3	Andrew DBXNH-6565A-A2M	Panel		
		3	**Nokia AirScale Dual RRH 4T4R B2/66a 320W, AHFIC**	**RRH**		
		3	**Nokia Alcatel B13 RRH 4X30**	**RRH**		
		3	**Nokia AirScale RRH 4T4R B5 160W AHCA**	**RRH**		
		3*	Alcatel Lucent AWS RRH 2x60*	RRH		
		3	Raycap RXX-DC-3315-PF-48	OVP		
		2*	1' Dish*	Dish	2*	Cat5*
73.5	-	2	Stand-off	Mount	3	7/8"
	73.5	3	PCTEL GPS-TMG-HR-26N	GPS		

Note: Proposed equipment shown in bold above.
***Note: Verizon Wireless reserved rights.**
Note: Other existing loading can be found on the tower profile attached.

Design Criteria

The tower was analyzed using tnxTower (Version 8.0.5.0) tower analysis software using the following design criteria.

State Building Code	2015 IBC w/ New York State 2017 Uniform Code Supplement
TIA/EIA Standard Code	Rev G
Basic Wind Speed	115 MPH (V_{ult})/90 MPH (V_{asd})
Basic Wind Speed w/ Ice	50 MPH w/ 0.75" Ice
Steel Grade	65 ksi pole and channel reinforcement
Exposure Category	C
Topographic Category (height)	1 (0.0 ft)
Risk Category	II

Analysis Results

Based on the foregoing information, our structural analysis determined that **the existing tower is structurally capable of supporting the proposed equipment loads without modification.** The existing foundation has also been evaluated. The tower base is found to be **structurally capable of supporting the proposed equipment loads.**

Assumptions

1. The existing tower has been maintained to manufacturer's specifications and is in good condition.
2. Foundations are considered to have been properly designed for the original design loads.
3. All member connections are considered to have been designed to meet the load carrying capacity of the connected member.
4. Antenna mount loads have been estimated based on generally accepted industry standards.
5. The mounts for the proposed antennas have been analyzed and designed by others.
6. See additional assumptions contained in the report attached.

Conclusions

The existing tower described above **has sufficient capacity** to support the proposed loading based on the governing Building Code. The foundation is also acceptable.

We appreciate the opportunity of providing our continuing professional services to you. If you have any questions or need further assistance please call us anytime at 605-540-4620.

Sincerely,

John Bozzetto, P.E.
Principal

Standard Conditions

All engineering services are performed on the basis that the information used is current and correct. This information may consist of, but not necessarily limited, to:

- Information supplied by the client regarding the structure itself, the antenna and transmission line loading on the structure and it components, or relevant information.

- Information from drawings in possession of Bennett & Pless, or generated by field inspections or measurements of the structure.

It is the responsibility of the client to ensure that the information provided to Bennett & Pless and used in the performance of our engineering services is correct and complete. In the absence of information contrary, we consider that all structures were constructed in accordance with the drawings and specifications and are in a un-corroded condition and have not deteriorated; and we, therefore consider that their capacity has not significantly changed from the original design condition.

All services will be performed to the codes and standards specified by the client, and we do not imply to meet any other code and standard requirements unless explicitly agreed to in writing. If wind and ice loads or other relevant parameters are to be different from the minimum values recommended by the codes and standards, the client shall specify the exact requirements. In the absence of information to the contrary, all work will be performed in accordance with the revision of ANSI/TIA/EIA-222 requested.

All services are performed, results obtained and recommendations made in accordance with the generally accepted engineering principles and practices. Bennett & Pless is not responsible for the conclusions, opinions and recommendations made by others based on the information we supply.

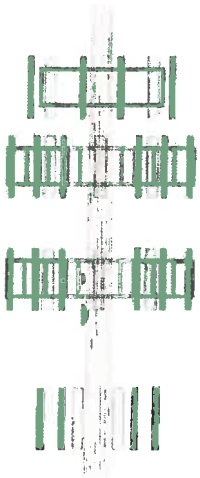
Disclaimer of Warranties

Bennett & Pless Inc. makes no warranties, expressed or implied, in connection with this report, and disclaims any liability arising from the ability of the existing structure to support the design loads for which it was originally designed. Bennett & Pless Inc. will not be responsible whatsoever for or on account of, consequential or incidental damages sustained by any person, firm, or organization as a result of any data or conclusions contained in this report. The maximum liability of Bennett & Pless pursuant to this report will be limited to the total fee received for preparation of this report.

Attachment 1:
Calculations

Section	5	4	3	2	1
Length (ft)	42.00	35.00	19.50	15.50	53.00
Number of Sides	18	18	18	18	18
Thickness (in)	0.4840	0.4410	0.3990	0.2500	0.1875
Socket Length (ft)		5.50	5.00		4.50
Top Dia (in)	35.0360	34.3376	33.0000	30.7360	24.0000
Bot Dia (in)	44.5000	39.7720	35.8720	33.0000	31.7730
Grade			A572-65		
Weight (K)	9.0	6.1	2.9	1.3	3.0

150.0 ft
97.0 ft
86.0 ft
66.5 ft
36.5 ft
0.0 ft



MATERIAL STRENGTH

GRADE	Fy	Fu	GRADE	Fy	Fu
A572-65	65 ksi	80 ksi			

TOWER DESIGN NOTES

1. Tower is located in Westchester County, New York.
2. Tower designed for Exposure C to the TIA-222-G Standard.
3. Tower designed for a 90 mph basic wind in accordance with the TIA-222-G Standard.
4. Tower is also designed for a 50 mph basic wind with 0.75 in ice. Ice is considered to increase in thickness with height.
5. Deflections are based upon a 60 mph wind.
6. Tower Structure Class II.
7. Topographic Category 1 with Crest Height of 0.00 ft
8. TOWER RATING: 84.6%

ALL REACTIONS ARE FACTORED

AXIAL 79 K

SHEAR 9 K / *MOMENT 1048 kip-ft*

TORQUE 2 kip-ft
50 mph WIND - 0.7500 in ICE

AXIAL 48 K

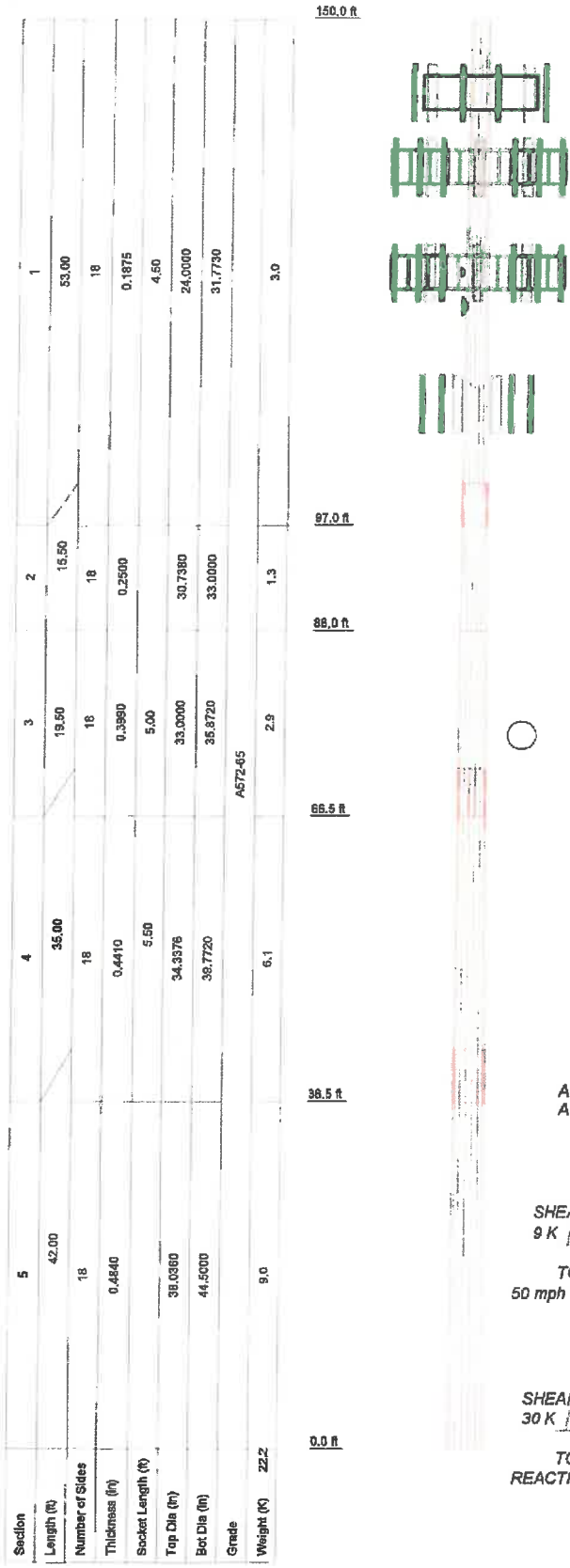
SHEAR 30 K / *MOMENT 3340 kip-ft*

TORQUE 7 kip-ft
REACTIONS - 90 mph WIND

bennett&pless
Experience Structural Experties

Bennett & Pless
750 Park of Commerce Dr #200
Boca Raton, FL 33487
Phone: (605) 540-4623
FAX:

Job:	NY001 (Vista)
Project:	Monopole Structural Analysis
Client: InSite Towers	Drawn by: Chunhui Song App'd:
Code: TIA-222-G	Date: 03/11/20 Scale: NTS
Path:	Dwg No. E-1



DESIGNED APPURTENANCE LOADING

TYPE	ELEVATION
12' Dipole (Vista Fire Dept.)	150
4' Yagi (Vista Fire Dept.)	150
ground plane antenna (Vista Fire Dept.)	148.25
Lightning Rod (Vista Fire Dept.)	148.25
APXV86-906513L-C-A20 (Sprint)	142.25
APXV86-906513L-C-A20 (Sprint)	142.25
APXV86-906513L-C-A20 (Sprint)	142.25
APXVRR13-C-A20 (Sprint)	142.25
APXVRR13-C-A20 (Sprint)	142.25
APXVRR13-C-A20 (Sprint)	142.25
RRH 2X50W (Sprint)	142.25
RRH 2X50W (Sprint)	142.25
RRH 2X50W (Sprint)	142.25
TD-RRH8x20-25 (Sprint)	142.25
TD-RRH8x20-25 (Sprint)	142.25
TD-RRH8x20-25 (Sprint)	142.25
Alpha AW3378 (Sprint)	142.25
Alpha AW3378 (Sprint)	142.25
Alpha AW3378 (Sprint)	142.25
SM 601-1 Sector Mount (Sprint)	142.25
SBNHH-1D65C (ATI)	134.5
SBNHH-1D65C (ATI)	134.5
SBNHH-1D65C (ATI)	134.5
RRH2X40-07-L (ATI)	134.5
RRH2X40-07-L (ATI)	134.5
RRH2X40-07-L (ATI)	134.5
(4) Commscope E15S09P56 (ATI)	134.5
(4) Commscope E15S09P56 (ATI)	134.5
(4) Commscope E15S09P56 (ATI)	134.5
(2) CBCT819 (ATI)	134.5
(2) CBCT819 (ATI)	134.5
(2) CBCT819 (ATI)	134.5
Alcatel Lucent B25 RRH4x30-4R (ATI)	134.5
Alcatel Lucent B25 RRH4x30-4R (ATI)	134.5
Alcatel Lucent B25 RRH4x30-4R (ATI)	134.5
AHCA B5 RRH4x30 (ATI)	134.5
AHCA B5 RRH4x30 (ATI)	134.5
AHCA B5 RRH4x30 (ATI)	134.5
(2) NNHH-65C-R4 (ATI)	134.5
(2) NNHH-65C-R4 (ATI)	134.5
(2) NNHH-65C-R4 (ATI)	134.5
RRH4x25-WCS-4R (ATI)	134.5
RRH4x25-WCS-4R (ATI)	134.5
RRH4x25-WCS-4R (ATI)	134.5
DC6-48-60-18-8F (ATI)	134.5
DC6-48-60-18-8F (ATI)	134.5
SM 601-1 Sector Mount (ATI)	134.5
(2) Andrew JAHH-65B-R3B (Verizon)	123.5
(2) Andrew JAHH-65B-R3B (Verizon)	123.5
(2) Andrew JAHH-65B-R3B (Verizon)	123.5
Andrew SBNHH-1D65A (Verizon)	123.5
Andrew SBNHH-1D65A (Verizon)	123.5
Andrew DBXNH-6565A-A2M (Verizon)	123.5

TYPE	ELEVATION
Andrew DBXNH-6565A-A2M (Verizon)	123.5
Andrew DBXNH-6565A-A2M (Verizon)	123.5
Nokia AirScale Dual RRH 4T4R B2/66a 320W AHFIC (Verizon)	123.5
Nokia AirScale Dual RRH 4T4R B2/66a 320W AHFIC (Verizon)	123.5
Nokia AirScale Dual RRH 4T4R B2/66a 320W AHFIC (Verizon)	123.5
Nokia Alcatel B13 RRH 4X30 (Verizon)	123.5
Nokia Alcatel B13 RRH 4X30 (Verizon)	123.5
Nokia Alcatel B13 RRH 4X30 (Verizon)	123.5
Nokia AirScale RRH 4T4R B5 160W AHCA (Verizon)	123.5
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Nokia AirScale RRH 4T4R B5 160W AHCA (Verizon)	123.5
Alcatel Lucent AWS RRH 2x60 (Verizon)	123.5
Alcatel Lucent AWS RRH 2x60 (Verizon)	123.5
Alcatel Lucent AWS RRH 2x60 (Verizon)	123.5
Raycap RxxDC-3315-PF-48 (Verizon)	123.5
Raycap RxxDC-3315-PF-48 (Verizon)	123.5
Raycap RxxDC-3315-PF-48 (Verizon)	123.5
T-Arm (Verizon)	123.5
T-Arm (Verizon)	123.5
T-Arm (Verizon)	123.5
1' Std. Dish (Verizon)	123.5
1' Std. Dish (Verizon)	123.5
2' MW Dish (T-Mobile)	120
CMA-BDHH/6521/E0-6 (T-Mobile)	109.75
CMA-BDHH/6521/E0-6 (T-Mobile)	109.75
CMA-BDHH/6521/E0-6 (T-Mobile)	109.75
CMA-BDHH/6521/E0-6 (T-Mobile)	109.75
APXVF24-C-A20 (T-Mobile)	109.75
APXVF24-C-A20 (T-Mobile)	109.75
APXVF24-C-A20 (T-Mobile)	109.75
APXVF24-C-A20 (T-Mobile)	109.75
RRUS11 B2 (T-Mobile)	109.75
RRUS11 B2 (T-Mobile)	109.75
RRUS11 B2 (T-Mobile)	109.75
RRUS11 B2 (T-Mobile)	109.75
RRUS11 B4 (T-Mobile)	109.75
RRUS11 B4 (T-Mobile)	109.75
RRUS11 B4 (T-Mobile)	109.75
RRUS11 B4 (T-Mobile)	109.75
RRUS 11 B12 (T-Mobile)	109.75
2' Stand off (Verizon)	73.5
2' Stand off (Verizon)	73.5
PCTEL GPS-TMG-HR-26N (Verizon)	73.5
PCTEL GPS-TMG-HR-26N (Verizon)	73.5
PCTEL GPS-TMG-HR-26N (Verizon)	73.5

MATERIAL STRENGTH

GRADE	Fy	Fu	GRADE	Fy	Fu
A572-65	65 ksi	80 ksi			

TOWER DESIGN NOTES

1. Tower is located in Westchester County, New York.
2. Tower designed for Exposure C to the TIA-222-G Standard.
3. Tower designed for a 90 mph basic wind in accordance with the TIA-222-G Standard.
4. Tower is also designed for a 50 mph basic wind with 0.75 in ice. Ice is considered to increase in thickness with height.
5. Deflections are based upon a 60 mph wind.
6. Tower Structure Class II.
7. Topographic Category 1 with Crest Height of 0.00 ft
8. TOWER RATING: 84.6%

bennett&pless
Experience Structural Expertise
Bennett & Pless
750 Park of Commerce Dr #200
Boca Raton, FL 33487
Phone: (605) 540-4623
FAX:

Job:	NY001 (Vista)
Project:	Monopole Structural Analysis
Client:	InSite Towers
Drawn by:	Chunhui Song
App'd:	
Code:	TIA-222-G
Date:	03/11/20
Scale:	NTS
Path:	
Dwg No.	E-1

Tower Input Data

The tower is a monopole.
This tower is designed using the TIA-222-G standard.
The following design criteria apply:

Tower is located in Westchester County, New York.
Basic wind speed of 90 mph.
Structure Class II.
Exposure Category C.
Topographic Category 1.
Crest Height 0.00 ft.
Nominal ice thickness of 0.7500 in.
Ice thickness is considered to increase with height.
Ice density of 56 pcf.
A wind speed of 50 mph is used in combination with ice.
Temperature drop of 50 °F.
Deflections calculated using a wind speed of 60 mph.
A non-linear (P-delta) analysis was used.
Pressures are calculated at each section.
Stress ratio used in pole design is 1.
Local bending stresses due to climbing loads, feed line supports, and appurtenance mounts are not considered.

Options

	Consider Moments - Legs		Distribute Leg Loads As Uniform	√	Use ASCE 10 X-Brace Ly Rules
	Consider Moments - Horizontals		Assume Legs Pinned	√	Calculate Redundant Bracing Forces
	Consider Moments - Diagonals	√	Assume Rigid Index Plate		Ignore Redundant Members in FEA
	Use Moment Magnification	√	Use Clear Spans For Wind Area		SR Leg Bolts Resist Compression
√	Use Code Stress Ratios	√	Use Clear Spans For KL/r		All Leg Panels Have Same Allowable
√	Use Code Safety Factors - Guys		Retension Guys To Initial Tension		Offset Girt At Foundation
	Escalate Ice	√	Bypass Mast Stability Checks	√	Consider Feed Line Torque
	Always Use Max Kz	√	Use Azimuth Dish Coefficients		Include Angle Block Shear Check
	Use Special Wind Profile	√	Project Wind Area of Appurt.		Use TIA-222-G Bracing Resist. Exemption
√	Include Bolts In Member Capacity		Autocalc Torque Arm Areas		Use TIA-222-G Tension Splice Exemption
	Leg Bolts Are At Top Of Section		Add IBC .6D+W Combination		Poles
√	Secondary Horizontal Braces Leg		Sort Capacity Reports By Component	√	Include Shear-Torsion Interaction
	Use Diamond Inner Bracing (4 Sided)	√	Triangulate Diamond Inner Bracing		Always Use Sub-Critical Flow
√	SR Members Have Cut Ends		Treat Feed Line Bundles As Cylinder		Use Top Mounted Sockets
	SR Members Are Concentric		Ignore KL/ry For 60 Deg. Angle Legs		Pole Without Linear Attachments
					Pole With Shroud Or No Appurtenances
					Outside and Inside Corner Radii Are Known

Tapered Pole Section Geometry

Section	Elevation ft	Section Length ft	Splice Length ft	Number of Sides	Top Diameter in	Bottom Diameter in	Wall Thickness in	Bend Radius in	Pole Grade
L1	150.00-97.00	53.00	4.50	18	24.0000	31.7730	0.1875	0.7500	A572-65

Section	Elevation ft	Section Length ft	Splice Length ft	Number of Sides	Top Diameter in	Bottom Diameter in	Wall Thickness in	Bend Radius in	Pole Grade
L2	97.00-86.00	15.50	0.00	18	30.7380	33.0000	0.2500	1.0000	(65 ksi) A572-65 (65 ksi)
L3	86.00-66.50	19.50	5.00	18	33.0000	35.8720	0.3990	1.5960	A572-65 (65 ksi)
L4	66.50-36.50	35.00	5.50	18	34.3376	39.7720	0.4410	1.7640	A572-65 (65 ksi)
L5	36.50-0.00	42.00		18	38.0360	44.5000	0.4840	1.9360	A572-65 (65 ksi)

Tapered Pole Properties

Section	Tip Dia. in	Area in^2	I in^4	r in	C in	I/C in^3	J in^4	It/Q in^2	w in	w/t
L1	24.3413	14.1714	1015.2211	8.4534	12.1920	83.2694	2031.7780	7.0871	3.8940	20.768
	32.2342	18.7973	2369.2392	11.2129	16.1407	146.7868	4741.5959	9.4004	5.2620	28.064
L2	31.8405	24.1923	2841.0075	10.8232	15.6149	181.9419	5685.7533	12.0984	4.9699	19.88
	33.4705	25.9871	3521.4238	11.6262	16.7640	210.0587	7047.4812	12.9960	5.3680	21.472
L3	33.4475	41.2868	5543.8317	11.5734	16.7640	330.6986	11094.9580	20.6473	5.1058	12.796
	36.3638	44.9239	7141.8549	12.5929	18.2230	391.9149	14293.1073	22.4662	5.6112	14.063
L4	35.5876	47.4462	6887.3316	12.0333	17.4435	394.8367	13783.7257	23.7276	5.2673	11.944
	40.3175	55.0529	10759.3969	13.9625	20.2042	532.5333	21532.9513	27.5317	6.2237	14.113
L5	39.4077	57.6880	10277.5519	13.3310	19.3223	531.9011	20568.6273	28.8495	5.8425	12.071
	45.1118	67.6181	16550.8939	15.6257	22.6060	732.1461	33123.5658	33.8155	6.9802	14.422

Tower Elevation ft	Gusset Area (per face) ft^2	Gusset Thickness in	Gusset Grade	Adjust. Factor A_f	Adjust. Factor A_r	Weight Mult.	Double Angle Stitch Bolt Spacing Diagonals in	Double Angle Stitch Bolt Spacing Horizontals in	Double Angle Stitch Bolt Spacing Redundants in
L1 150.00-97.00				1	1	1			
L2 97.00-86.00				1	1	1			
L3 86.00-66.50				1	1	1			
L4 66.50-36.50				1	1	1			
L5 36.50-0.00				1	1	1			

Feed Line/Linear Appurtenances - Entered As Round Or Flat

Description	Sector	Exclude From Torque Calculation	Component Type	Placement ft	Total Number	Number Per Row	Start/End Position	Width or Diameter in	Perimeter in	Weight plf
***										
Switchblade Reinf (<unassigned>)	A	No	Surface Af (CaAa)	90.08 - 0.00	1	1	0.333 0.333	3.5000	14.0000	18.60
Switchblade Reinf (<unassigned>)	B	No	Surface Af (CaAa)	90.08 - 0.00	1	1	0.333 0.333	3.5000	14.0000	18.60
Switchblade Reinf (<unassigned>)	C	No	Surface Af (CaAa)	90.08 - 0.00	1	1	0.500 0.500	3.5000	14.0000	18.60

Feed Line/Linear Appurtenances - Entered As Area

Description	Face or Leg	Allow Shield	Exclude From Torque Calculation	Component Type	Placement ft	Total Number		C_AA_A ft^2/ft	Weight plf
LDF4RN-50A (1/2 FOAM) (Unknown)	C	No	No	Inside Pole	148.25 - 5.00	1	No Ice	0.00	0.15
							1/2" Ice	0.00	0.15
							1" Ice	0.00	0.15
LDF5-50A (7/8" FOAM) (Vista Fire Dept.)	C	No	No	Inside Pole	150.00 - 5.00	1	No Ice	0.00	0.33
							1/2" Ice	0.00	0.33
							1" Ice	0.00	0.33
LDF4RN-50A (1/2 FOAM) (Vista Fire Dept.) ***	C	No	No	Inside Pole	150.00 - 5.00	1	No Ice	0.00	0.15
							1/2" Ice	0.00	0.15
							1" Ice	0.00	0.15
LDF7-50A (1-5/8 FOAM) (Sprint)	C	No	No	Inside Pole	144.25 - 5.00	6	No Ice	0.00	0.82
							1/2" Ice	0.00	0.82
							1" Ice	0.00	0.82
1 1/4" Hybriflex (Sprint) ***	C	No	No	Inside Pole	144.25 - 5.00	6	No Ice	0.00	0.66
							1/2" Ice	0.00	0.66
							1" Ice	0.00	0.66
LDF7-50A (1-5/8 FOAM) (AT&T)	C	No	No	Inside Pole	134.50 - 5.00	18	No Ice	0.00	0.82
							1/2" Ice	0.00	0.82
							1" Ice	0.00	0.82
2-1/4" Conduit (AT&T)	C	No	No	Inside Pole	134.50 - 5.00	1	No Ice	0.00	0.10
							1/2" Ice	0.00	0.10
							1" Ice	0.00	0.10
2" Innerduct Conduit (AT&T-(4)fiber-(2) DC) ***	C	No	No	Inside Pole	134.50 - 5.00	4	No Ice	0.00	0.34
							1/2" Ice	0.00	0.34
							1" Ice	0.00	0.34
LDF7-50A (1-5/8 FOAM) (Verizon)	C	No	No	Inside Pole	123.50 - 5.00	12	No Ice	0.00	0.82
							1/2" Ice	0.00	0.82
							1" Ice	0.00	0.82
LDF7-50A (1-5/8 FOAM) (Verizon)	C	No	No	Inside Pole	123.50 - 5.00	6	No Ice	0.00	0.82
							1/2" Ice	0.00	0.82
							1" Ice	0.00	0.82
1 1/4" Hybriflex (Verizon)	C	No	No	Inside Pole	123.50 - 5.00	3	No Ice	0.00	0.66
							1/2" Ice	0.00	0.66
							1" Ice	0.00	0.66
CAT-5 (Verizon)	C	No	No	Inside Pole	120.00 - 5.00	2	No Ice	0.00	0.55
							1/2" Ice	0.00	0.55
							1" Ice	0.00	0.55
LDF5-50A (7/8 FOAM) (Verizon) ***	C	No	No	Inside Pole	73.50 - 5.00	2	No Ice	0.00	0.33
							1/2" Ice	0.00	0.33
							1" Ice	0.00	0.33
1 3/8" O.D (T-Mobile)	A	No	No	Inside Pole	112.00 - 5.00	3	No Ice	0.00	1.00
							1/2" Ice	0.00	1.00
							1" Ice	0.00	1.00
1 1/4" Hybriflex (T-Mobile)	A	No	No	Inside Pole	112.00 - 5.00	1	No Ice	0.00	0.66
							1/2" Ice	0.00	0.66
							1" Ice	0.00	0.66

Feed Line/Linear Appurtenances Section Areas

Tower Section	Tower Elevation ft	Face	A_R ft^2	A_F ft^2	C_AA_A In Face ft^2	C_AA_A Out Face ft^2	Weight K
L1	150.00-97.00	A	0.000	0.000	0.000	0.000	0.05
		B	0.000	0.000	0.000	0.000	0.00
		C	0.000	0.000	0.000	0.000	1.53
L2	97.00-86.00	A	0.000	0.000	2.380	0.000	0.12
		B	0.000	0.000	2.380	0.000	0.08
		C	0.000	0.000	2.380	0.000	0.56
L3	86.00-66.50	A	0.000	0.000	11.375	0.000	0.43
		B	0.000	0.000	11.375	0.000	0.36
		C	0.000	0.000	11.375	0.000	1.22
L4	66.50-36.50	A	0.000	0.000	17.500	0.000	0.67
		B	0.000	0.000	17.500	0.000	0.56
		C	0.000	0.000	17.500	0.000	1.88
L5	36.50-0.00	A	0.000	0.000	21.292	0.000	0.79
		B	0.000	0.000	21.292	0.000	0.68
		C	0.000	0.000	21.292	0.000	2.07

Feed Line/Linear Appurtenances Section Areas - With Ice

Tower Section	Tower Elevation ft	Face or Leg	Ice Thickness in	A_R ft^2	A_F ft^2	C_AA_A In Face ft^2	C_AA_A Out Face ft^2	Weight K
L1	150.00-97.00	A	1.710	0.000	0.000	0.000	0.000	0.05
		B		0.000	0.000	0.000	0.000	0.00
		C		0.000	0.000	0.000	0.000	1.53
L2	97.00-86.00	A	1.661	0.000	0.000	3.776	0.000	0.17
		B		0.000	0.000	3.776	0.000	0.13
		C		0.000	0.000	3.776	0.000	0.61
L3	86.00-66.50	A	1.631	0.000	0.000	17.735	0.000	0.68
		B		0.000	0.000	17.735	0.000	0.61
		C		0.000	0.000	17.735	0.000	1.47
L4	66.50-36.50	A	1.567	0.000	0.000	27.284	0.000	1.05
		B		0.000	0.000	27.284	0.000	0.94
		C		0.000	0.000	27.284	0.000	2.27
L5	36.50-0.00	A	1.415	0.000	0.000	32.733	0.000	1.24
		B		0.000	0.000	32.733	0.000	1.12
		C		0.000	0.000	32.733	0.000	2.52

Feed Line Center of Pressure

Section	Elevation ft	CP_X in	CP_Z in	CP_X Ice in	CP_Z Ice in
L1	150.00-97.00	0.0000	0.0000	0.0000	0.0000
L2	97.00-86.00	-0.3471	-1.0729	-0.2871	-0.8875
L3	86.00-66.50	-0.6476	-2.0080	-0.5647	-1.7510
L4	66.50-36.50	-0.6721	-2.0939	-0.5822	-1.8138
L5	36.50-0.00	-0.6987	-2.1891	-0.6001	-1.8802

Note: For pole sections, center of pressure calculations do not consider feed line shielding.

Shielding Factor Ka

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K_a No Ice	K_a Ice
L1	21	Switchblade Reinf	97.00 - 90.08	1.0000	1.0000
L1	22	Switchblade Reinf	97.00 - 90.08	1.0000	1.0000
L1	23	Switchblade Reinf	97.00 - 90.08	1.0000	1.0000
L3	21	Switchblade Reinf	66.50 - 86.00	1.0000	1.0000
L3	22	Switchblade Reinf	66.50 - 86.00	1.0000	1.0000
L3	23	Switchblade Reinf	66.50 - 86.00	1.0000	1.0000
L4	21	Switchblade Reinf	36.50 - 66.50	1.0000	1.0000
L4	22	Switchblade Reinf	36.50 - 66.50	1.0000	1.0000
L4	23	Switchblade Reinf	36.50 - 66.50	1.0000	1.0000

Discrete Tower Loads

Description	Face or Leg	Offset Type	Offsets: Horz Lateral ft / Vert ft	Azimuth Adjustment °	Placement ft		C_AA_A Front ft^2	C_AA_A Side ft^2	Weight K
ground plane antenna (Vista Fire Dept.)	C	None		0.0000	148.25	No Ice	0.89	0.89	0.02
						1/2" Ice	1.14	1.14	0.02
						1" Ice	1.39	1.39	0.03
Lightning Rod (Vista Fire Dept.)	C	None		0.0000	148.25	No Ice	1.00	1.00	0.07
						1/2" Ice	0.00	0.00	0.10
						1" Ice	0.00	0.00	0.12
***									
12' Dipole (Vista Fire Dept.)	C	None		0.0000	150.00	No Ice	2.80	2.80	0.03
						1/2" Ice	4.22	4.22	0.05
						1" Ice	5.67	5.67	0.08
4' Yagi (Vista Fire Dept.)	B	None		0.0000	150.00	No Ice	2.00	2.00	0.05
						1/2" Ice	3.50	3.50	0.07
						1" Ice	5.00	5.00	0.08
***									
APXV86-906513L-C-A20 (Sprint)	A	From Leg	4.00 0.00 0.00	0.0000	142.25	No Ice 1/2" Ice 1" Ice	6.67 7.10 7.54	2.82 3.15 3.50	0.03 0.07 0.11
APXV86-906513L-C-A20 (Sprint)	B	From Leg	4.00 0.00 0.00	0.0000	142.25	No Ice 1/2" Ice 1" Ice	6.67 7.10 7.54	2.82 3.15 3.50	0.03 0.07 0.11
APXV86-906513L-C-A20 (Sprint)	C	From Leg	4.00 0.00 0.00	0.0000	142.25	No Ice 1/2" Ice 1" Ice	6.67 7.10 7.54	2.82 3.15 3.50	0.03 0.07 0.11
APXVRR13-C-A20 (Sprint)	A	From Leg	4.00 0.00 0.00	0.0000	142.25	No Ice 1/2" Ice 1" Ice	7.35 7.80 8.26	2.60 2.94 3.29	0.03 0.07 0.11
APXVRR13-C-A20 (Sprint)	A	From Leg	4.00 0.00	0.0000	142.25	No Ice 1/2" Ice	7.35 7.80	2.60 2.94	0.03 0.07

Description	Face or Leg	Offset Type	Offsets: Horz Lateral ft	Vert ft	Azimuth Adjustment °	Placement ft		C_AA_A Front ft^2	C_AA_A Side ft^2	Weight K
			0.00				1" Ice	8.26	3.29	0.11
APXVRR13-C-A20 (Sprint)	B	From Leg	4.00		0.0000	142.25	No Ice	7.35	2.60	0.03
			0.00				1/2" Ice	7.80	2.94	0.07
			0.00				1" Ice	8.26	3.29	0.11
RRH 2X50W (Sprint)	C	From Leg	4.00		0.0000	142.25	No Ice	2.43	2.02	0.06
			0.00				1/2" Ice	2.65	2.22	0.08
			0.00				1" Ice	2.87	2.43	0.11
RRH 2X50W (Sprint)	B	From Leg	4.00		0.0000	142.25	No Ice	2.43	2.02	0.06
			0.00				1/2" Ice	2.65	2.22	0.08
			0.00				1" Ice	2.87	2.43	0.11
RRH 2X50W (Sprint)	C	From Leg	4.00		0.0000	142.25	No Ice	2.43	2.02	0.06
			0.00				1/2" Ice	2.65	2.22	0.08
			0.00				1" Ice	2.87	2.43	0.11
TD-RRH8x20-25 (Sprint)	A	From Leg	4.00		0.0000	142.25	No Ice	4.72	1.70	0.07
			0.00				1/2" Ice	5.01	1.92	0.10
			0.00				1" Ice	5.32	2.15	0.13
TD-RRH8x20-25 (Sprint)	B	From Leg	4.00		0.0000	142.25	No Ice	4.72	1.70	0.07
			0.00				1/2" Ice	5.01	1.92	0.10
			0.00				1" Ice	5.32	2.15	0.13
TD-RRH8x20-25 (Sprint)	C	From Leg	4.00		0.0000	142.25	No Ice	4.72	1.70	0.07
			0.00				1/2" Ice	5.01	1.92	0.10
			0.00				1" Ice	5.32	2.15	0.13
Alpha AW3378 (Sprint)	A	From Leg	4.00		0.0000	142.25	No Ice	4.57	1.76	0.02
			0.00				1/2" Ice	4.87	2.03	0.05
			0.00				1" Ice	5.18	2.30	0.08
Alpha AW3378 (Sprint)	B	From Leg	4.00		0.0000	142.25	No Ice	4.57	1.76	0.02
			0.00				1/2" Ice	4.87	2.03	0.05
			0.00				1" Ice	5.18	2.30	0.08
Alpha AW3378 (Sprint)	C	From Leg	4.00		0.0000	142.25	No Ice	4.57	1.76	0.02
			0.00				1/2" Ice	4.87	2.03	0.05
			0.00				1" Ice	5.18	2.30	0.08
SM 601-1 Sector Mount (Sprint)	C	None			0.0000	142.25	No Ice	30.27	30.27	0.47
							1/2" Ice	41.42	41.62	0.66
							1" Ice	52.57	52.97	0.85
***										
SBNHH-1D65C (AT&T)	A	From Leg	4.00		0.0000	134.50	No Ice	11.35	7.66	0.07
			0.00				1/2" Ice	11.97	8.25	0.13
			0.00				1" Ice	12.59	8.84	0.20
SBNHH-1D65C (AT&T)	B	From Leg	4.00		0.0000	134.50	No Ice	11.35	7.66	0.07
			0.00				1/2" Ice	11.97	8.25	0.13
			0.00				1" Ice	12.59	8.84	0.20
SBNHH-1D65C (AT&T)	C	From Leg	4.00		0.0000	134.50	No Ice	11.35	7.66	0.07
			0.00				1/2" Ice	11.97	8.25	0.13
			0.00				1" Ice	12.59	8.84	0.20
RRH2X40-07-L (AT&T)	A	From Leg	4.00		0.0000	134.50	No Ice	2.12	1.77	0.06
			0.00				1/2" Ice	2.32	1.97	0.08
			0.00				1" Ice	2.54	2.17	0.10
RRH2X40-07-L (AT&T)	B	From Leg	4.00		0.0000	134.50	No Ice	2.12	1.77	0.06
			0.00				1/2" Ice	2.32	1.97	0.08
			0.00				1" Ice	2.54	2.17	0.10
RRH2X40-07-L (AT&T)	C	From Leg	4.00		0.0000	134.50	No Ice	2.12	1.77	0.06
			0.00				1/2" Ice	2.32	1.97	0.08
			0.00				1" Ice	2.54	2.17	0.10
(4) Commscope E15S09P56 (AT&T)	A	From Leg	4.00		0.0000	134.50	No Ice	0.75	0.23	0.01
			0.00				1/2" Ice	0.86	0.31	0.01
			0.00				1" Ice	0.97	0.39	0.02
(4) Commscope E15S09P56	B	From Leg	4.00		0.0000	134.50	No Ice	0.75	0.23	0.01

Description	Face or Leg	Offset Type	Offsets: Horz Lateral ft Vert ft	Azimuth Adjustment °	Placement ft		C_AA_A Front ft^2	C_AA_A Side ft^2	Weight K
(AT&T)			0.00			1/2" Ice	0.86	0.31	0.01
			0.00			1" Ice	0.97	0.39	0.02
(4) Commscope E15S09P56	C	From Leg	4.00	0.0000	134.50	No Ice	0.75	0.23	0.01
(AT&T)			0.00			1/2" Ice	0.86	0.31	0.01
			0.00			1" Ice	0.97	0.39	0.02
(2) CBCT819	A	From Leg	4.00	0.0000	134.50	No Ice	0.14	0.08	0.01
(AT&T)			0.00			1/2" Ice	0.22	0.13	0.01
			0.00			1" Ice	0.31	0.19	0.01
(2) CBCT819	B	From Leg	4.00	0.0000	134.50	No Ice	0.14	0.08	0.01
(AT&T)			0.00			1/2" Ice	0.22	0.13	0.01
			0.00			1" Ice	0.31	0.19	0.01
(2) CBCT819	C	From Leg	4.00	0.0000	134.50	No Ice	0.14	0.08	0.01
(AT&T)			0.00			1/2" Ice	0.22	0.13	0.01
			0.00			1" Ice	0.31	0.19	0.01
Alcatel Lucent B25	A	From Leg	4.00	0.0000	134.50	No Ice	2.12	1.54	0.05
RRH4x30-4R			0.00			1/2" Ice	2.31	1.71	0.07
(AT&T)			0.00			1" Ice	2.50	1.88	0.09
Alcatel Lucent B25	B	From Leg	4.00	0.0000	134.50	No Ice	2.12	1.54	0.05
RRH4x30-4R			0.00			1/2" Ice	2.31	1.71	0.07
(AT&T)			0.00			1" Ice	2.50	1.88	0.09
Alcatel Lucent B25	C	From Leg	4.00	0.0000	134.50	No Ice	2.12	1.54	0.05
RRH4x30-4R			0.00			1/2" Ice	2.31	1.71	0.07
(AT&T)			0.00			1" Ice	2.50	1.88	0.09
AHCA B5 RRH4x30	A	From Leg	4.00	0.0000	134.50	No Ice	1.28	0.72	0.04
(AT&T)			0.00			1/2" Ice	1.43	0.83	0.05
			0.00			1" Ice	1.58	0.95	0.06
AHCA B5 RRH4x30	B	From Leg	4.00	0.0000	134.50	No Ice	1.28	0.72	0.04
(AT&T)			0.00			1/2" Ice	1.43	0.83	0.05
			0.00			1" Ice	1.58	0.95	0.06
AHCA B5 RRH4x30	C	From Leg	4.00	0.0000	134.50	No Ice	1.28	0.72	0.04
(AT&T)			0.00			1/2" Ice	1.43	0.83	0.05
			0.00			1" Ice	1.58	0.95	0.06
(2) NNHH-65C-R4	A	From Leg	4.00	0.0000	134.50	No Ice	17.07	8.20	0.10
(AT&T)			0.00			1/2" Ice	17.70	8.79	0.19
			0.00			1" Ice	18.33	9.40	0.30
(2) NNHH-65C-R4	B	From Leg	4.00	0.0000	134.50	No Ice	17.07	8.20	0.10
(AT&T)			0.00			1/2" Ice	17.70	8.79	0.19
			0.00			1" Ice	18.33	9.40	0.30
(2) NNHH-65C-R4	C	From Leg	4.00	0.0000	134.50	No Ice	17.07	8.20	0.10
(AT&T)			0.00			1/2" Ice	17.70	8.79	0.19
			0.00			1" Ice	18.33	9.40	0.30
RRH4x25-WCS-4R	A	From Leg	4.00	0.0000	134.50	No Ice	2.90	2.03	0.07
(AT&T)			0.00			1/2" Ice	3.13	2.24	0.09
			0.00			1" Ice	3.37	2.45	0.12
RRH4x25-WCS-4R	B	From Leg	4.00	0.0000	134.50	No Ice	2.90	2.03	0.07
(AT&T)			0.00			1/2" Ice	3.13	2.24	0.09
			0.00			1" Ice	3.37	2.45	0.12
RRH4x25-WCS-4R	C	From Leg	4.00	0.0000	134.50	No Ice	2.90	2.03	0.07
(AT&T)			0.00			1/2" Ice	3.13	2.24	0.09
			0.00			1" Ice	3.37	2.45	0.12
DC6-48-60-18-8F	C	None		0.0000	134.50	No Ice	2.22	2.22	0.04
(AT&T)						1/2" Ice	2.44	2.44	0.06
						1" Ice	2.66	2.66	0.08
DC6-48-60-18-8F	A	None		0.0000	134.50	No Ice	2.22	2.22	0.04
(AT&T)						1/2" Ice	2.44	2.44	0.06
						1" Ice	2.66	2.66	0.08
SM 601-1 Sector Mount	C	None		0.0000	134.50	No Ice	30.27	30.27	0.47

Description	Face or Leg	Offset Type	Offsets: Horz Lateral ft / Vert ft / ft	Azimuth Adjustment °	Placement ft		C_AA_A Front ft^2	C_AA_A Side ft^2	Weight K
(AT&T)						1/2" Ice	41.42	41.62	0.66
***						1" Ice	52.57	52.97	0.85
(2) Andrew JAHH-65B-R3B (Verizon)	A	From Leg	4.00 0.00 0.00	0.0000	123.50	No Ice 1/2" Ice 1" Ice	9.11 9.58 10.05	5.98 6.44 6.91	0.06 0.12 0.19
(2) Andrew JAHH-65B-R3B (Verizon)	B	From Leg	4.00 0.00 0.00	0.0000	123.50	No Ice 1/2" Ice 1" Ice	9.11 9.58 10.05	5.98 6.44 6.91	0.06 0.12 0.19
(2) Andrew JAHH-65B-R3B (Verizon)	C	From Leg	4.00 0.00 0.00	0.0000	123.50	No Ice 1/2" Ice 1" Ice	9.11 9.58 10.05	5.98 6.44 6.91	0.06 0.12 0.19
Andrew SBNHH-1D65A (Verizon)	A	From Leg	4.00 0.00 0.00	0.0000	123.50	No Ice 1/2" Ice 1" Ice	5.96 6.32 6.70	3.91 4.27 4.63	0.03 0.07 0.12
Andrew SBNHH-1D65A (Verizon)	B	From Leg	4.00 0.00 0.00	0.0000	123.50	No Ice 1/2" Ice 1" Ice	5.96 6.32 6.70	3.91 4.27 4.63	0.03 0.07 0.12
Andrew SBNHH-1D65A (Verizon)	C	From Leg	4.00 0.00 0.00	0.0000	123.50	No Ice 1/2" Ice 1" Ice	5.96 6.32 6.70	3.91 4.27 4.63	0.03 0.07 0.12
Andrew DBXNH-6565A-A2M (Verizon)	A	From Leg	4.00 0.00 0.00	0.0000	123.50	No Ice 1/2" Ice 1" Ice	5.38 5.72 6.07	3.53 3.85 4.17	0.03 0.07 0.11
Andrew DBXNH-6565A-A2M (Verizon)	B	From Leg	4.00 0.00 0.00	0.0000	123.50	No Ice 1/2" Ice 1" Ice	5.38 5.72 6.07	3.53 3.85 4.17	0.03 0.07 0.11
Andrew DBXNH-6565A-A2M (Verizon)	C	From Leg	4.00 0.00 0.00	0.0000	123.50	No Ice 1/2" Ice 1" Ice	5.38 5.72 6.07	3.53 3.85 4.17	0.03 0.07 0.11
Nokia AirScale Dual RRH 4T4R B2/66a 320W AHFIC (Verizon)	A	From Leg	4.00 0.00 0.00	0.0000	123.50	No Ice 1/2" Ice 1" Ice	2.23 2.42 2.62	1.12 1.28 1.44	0.07 0.08 0.10
Nokia AirScale Dual RRH 4T4R B2/66a 320W AHFIC (Verizon)	B	From Leg	4.00 0.00 0.00	0.0000	123.50	No Ice 1/2" Ice 1" Ice	2.23 2.42 2.62	1.12 1.28 1.44	0.07 0.08 0.10
Nokia AirScale Dual RRH 4T4R B2/66a 320W AHFIC (Verizon)	C	From Leg	4.00 0.00 0.00	0.0000	123.50	No Ice 1/2" Ice 1" Ice	2.23 2.42 2.62	1.12 1.28 1.44	0.07 0.08 0.10
Nokia Alcatel B13 RRH 4X30 (Verizon)	A	From Leg	4.00 0.00 0.00	0.0000	123.50	No Ice 1/2" Ice 1" Ice	2.16 2.35 2.55	1.62 1.79 1.97	0.06 0.08 0.10
Nokia Alcatel B13 RRH 4X30 (Verizon)	B	From Leg	4.00 0.00 0.00	0.0000	123.50	No Ice 1/2" Ice 1" Ice	2.16 2.35 2.55	1.62 1.79 1.97	0.06 0.08 0.10
Nokia Alcatel B13 RRH 4X30 (Verizon)	C	From Leg	4.00 0.00 0.00	0.0000	123.50	No Ice 1/2" Ice 1" Ice	2.16 2.35 2.55	1.62 1.79 1.97	0.06 0.08 0.10
Nokia AirScale RRH 4T4R B5 160W AHCA (Verizon)	A	From Leg	4.00 0.00 0.00	0.0000	123.50	No Ice 1/2" Ice 1" Ice	1.29 1.43 1.58	0.72 0.83 0.96	0.04 0.05 0.06
Nokia AirScale RRH 4T4R B5 160W AHCA (Verizon)	B	From Leg	4.00 0.00 0.00	0.0000	123.50	No Ice 1/2" Ice 1" Ice	1.29 1.43 1.58	0.72 0.83 0.96	0.04 0.05 0.06
Nokia AirScale RRH 4T4R B5 160W AHCA (Verizon)	C	From Leg	4.00 0.00 0.00	0.0000	123.50	No Ice 1/2" Ice 1" Ice	1.29 1.43 1.58	0.72 0.83 0.96	0.04 0.05 0.06

Description	Face or Leg	Offset Type	Offsets: Horz Lateral ft / Vert ft	Azimuth Adjustment °	Placement ft		C_AA_A Front ft^2	C_AA_A Side ft^2	Weight K
Alcatel Lucent AWS RRH 2x60 (Verizon)	A	From Leg	4.00 0.00 0.00	0.0000	123.50	No Ice 1/2" Ice 1" Ice	3.35 3.60 3.87	1.99 2.22 2.46	0.06 0.08 0.10
Alcatel Lucent AWS RRH 2x60 (Verizon)	B	From Leg	4.00 0.00 0.00	0.0000	123.50	No Ice 1/2" Ice 1" Ice	3.35 3.60 3.87	1.99 2.22 2.46	0.06 0.08 0.10
Alcatel Lucent AWS RRH 2x60 (Verizon)	C	From Leg	4.00 0.00 0.00	0.0000	123.50	No Ice 1/2" Ice 1" Ice	3.35 3.60 3.87	1.99 2.22 2.46	0.06 0.08 0.10
Raycap RxxDC-3315-PF-48 (Verizon)	A	From Leg	4.00 0.00 0.00	0.0000	123.50	No Ice 1/2" Ice 1" Ice	4.10 4.35 4.61	2.19 2.39 2.61	0.03 0.06 0.10
Raycap RxxDC-3315-PF-48 (Verizon)	B	From Leg	4.00 0.00 0.00	0.0000	123.50	No Ice 1/2" Ice 1" Ice	4.10 4.35 4.61	2.19 2.39 2.61	0.03 0.06 0.10
Raycap RxxDC-3315-PF-48 (Verizon)	C	From Leg	4.00 0.00 0.00	0.0000	123.50	No Ice 1/2" Ice 1" Ice	4.10 4.35 4.61	2.19 2.39 2.61	0.03 0.06 0.10
T-Arm (Verizon)	A	None		0.0000	123.50	No Ice 1/2" Ice 1" Ice	10.54 0.00 0.00	10.54 0.00 0.00	0.34 0.44 0.54
T-Arm (Verizon)	B	None		0.0000	123.50	No Ice 1/2" Ice 1" Ice	10.54 0.00 0.00	10.54 0.00 0.00	0.34 0.44 0.54
T-Arm (Verizon)	C	None		0.0000	123.50	No Ice 1/2" Ice 1" Ice	10.54 0.00 0.00	10.54 0.00 0.00	0.34 0.44 0.54
PCTEL GPS-TMG-HR-26N (Verizon)	A	From Leg	0.50 0.00 0.00	0.0000	73.50	No Ice 1/2" Ice 1" Ice	0.70 0.80 0.90	0.70 0.80 0.90	0.02 0.02 0.02
PCTEL GPS-TMG-HR-26N (Verizon)	B	From Leg	0.50 0.00 0.00	0.0000	73.50	No Ice 1/2" Ice 1" Ice	0.70 0.80 0.90	0.70 0.80 0.90	0.02 0.02 0.02
PCTEL GPS-TMG-HR-26N (Verizon)	A	From Leg	0.50 0.00 0.00	0.0000	73.50	No Ice 1/2" Ice 1" Ice	0.70 0.80 0.90	0.70 0.80 0.90	0.02 0.02 0.02
2' Stand off (Verizon)	A	From Leg	0.00 0.00 0.00	0.0000	73.50	No Ice 1/2" Ice 1" Ice	2.96 4.10 5.24	2.11 2.93 3.75	0.01 0.02 0.02
2' Stand off (Verizon)	C	From Leg	0.00 0.00 0.00	0.0000	73.50	No Ice 1/2" Ice 1" Ice	2.96 4.10 5.24	2.11 2.93 3.75	0.01 0.02 0.02
***									
CMA-BDHH/6521/E0-6 (T-Mobile)	A	From Leg	4.00 2.00 0.00	-30.0000	109.75	No Ice 1/2" Ice 1" Ice	11.59 12.22 12.85	4.94 5.43 5.94	0.07 0.13 0.20
CMA-BDHH/6521/E0-6 (T-Mobile)	A	From Leg	4.00 2.00 0.00	60.0000	109.75	No Ice 1/2" Ice 1" Ice	11.59 12.22 12.85	4.94 5.43 5.94	0.07 0.13 0.20
CMA-BDHH/6521/E0-6 (T-Mobile)	B	From Leg	4.00 2.00 0.00	30.0000	109.75	No Ice 1/2" Ice 1" Ice	11.59 12.22 12.85	4.94 5.43 5.94	0.07 0.13 0.20
CMA-BDHH/6521/E0-6 (T-Mobile)	C	From Leg	4.00 2.00 0.00	0.0000	109.75	No Ice 1/2" Ice 1" Ice	11.59 12.22 12.85	4.94 5.43 5.94	0.07 0.13 0.20
APXVF24-C-A20 (T-Mobile)	A	From Leg	4.00 -2.00	-30.0000	109.75	No Ice 1/2" Ice	13.11 13.81	7.20 7.77	0.05 0.12

Description	Face or Leg	Offset Type	Offsets: Horz Lateral ft / Vert ft / ft	Azimuth Adjustment °	Placement ft		C_AA_A Front ft^2	C_AA_A Side ft^2	Weight K
			0.00			1" Ice	14.52	8.35	0.20
APXVF24-C-A20 (T-Mobile)	A	From Leg	4.00	60.0000	109.75	No Ice	13.11	7.20	0.05
			-2.00			1/2" Ice	13.81	7.77	0.12
			0.00			1" Ice	14.52	8.35	0.20
APXVF24-C-A20 (T-Mobile)	B	From Leg	4.00	30.0000	109.75	No Ice	13.11	7.20	0.05
			-2.00			1/2" Ice	13.81	7.77	0.12
			0.00			1" Ice	14.52	8.35	0.20
APXVF24-C-A20 (T-Mobile)	C	From Leg	4.00	0.0000	109.75	No Ice	13.11	7.20	0.05
			-2.00			1/2" Ice	13.81	7.77	0.12
			0.00			1" Ice	14.52	8.35	0.20
RRUS11 B2 (T-Mobile)	A	From Leg	4.00	-30.0000	109.75	No Ice	3.26	1.34	0.06
			0.00			1/2" Ice	3.50	1.52	0.08
			0.00			1" Ice	3.75	1.70	0.10
RRUS11 B2 (T-Mobile)	A	From Leg	4.00	60.0000	109.75	No Ice	3.26	1.34	0.06
			0.00			1/2" Ice	3.50	1.52	0.08
			0.00			1" Ice	3.75	1.70	0.10
RRUS11 B2 (T-Mobile)	B	From Leg	4.00	30.0000	109.75	No Ice	3.26	1.34	0.06
			0.00			1/2" Ice	3.50	1.52	0.08
			0.00			1" Ice	3.75	1.70	0.10
RRUS11 B2 (T-Mobile)	C	From Leg	4.00	0.0000	109.75	No Ice	3.26	1.34	0.06
			0.00			1/2" Ice	3.50	1.52	0.08
			0.00			1" Ice	3.75	1.70	0.10
RRUS11 B4 (T-Mobile)	A	From Leg	4.00	-30.0000	109.75	No Ice	3.26	1.34	0.06
			0.00			1/2" Ice	3.50	1.52	0.08
			0.00			1" Ice	3.75	1.70	0.10
RRUS11 B4 (T-Mobile)	A	From Leg	4.00	60.0000	109.75	No Ice	3.26	1.34	0.06
			0.00			1/2" Ice	3.50	1.52	0.08
			0.00			1" Ice	3.75	1.70	0.10
RRUS11 B4 (T-Mobile)	B	From Leg	4.00	30.0000	109.75	No Ice	3.26	1.34	0.06
			0.00			1/2" Ice	3.50	1.52	0.08
			0.00			1" Ice	3.75	1.70	0.10
RRUS11 B4 (T-Mobile)	C	From Leg	4.00	0.0000	109.75	No Ice	3.26	1.34	0.06
			0.00			1/2" Ice	3.50	1.52	0.08
			0.00			1" Ice	3.75	1.70	0.10
RRUS 11 B12 (T-Mobile)	A	From Leg	4.00	-30.0000	109.75	No Ice	2.83	1.18	0.05
			0.00			1/2" Ice	3.04	1.33	0.07
			0.00			1" Ice	3.26	1.48	0.10

Dishes

Description	Face or Leg	Dish Type	Offset Type	Offsets: Horz Lateral ft / Vert ft	Azimuth Adjustment °	3 dB Beam Width °	Elevation ft	Outside Diameter ft		Aperture Area ft^2	Weight K
***											
2' MW Dish (T-Mobile)	C	Paraboloid w/o Radome	From Leg	0.00	0.0000		120.00	2.00	No Ice	3.14	0.03
				0.00					1/2" Ice	3.41	0.05
				0.00					1" Ice	3.68	0.07
1' Std. Dish (Verizon)	A	Paraboloid w/o Radome	From Leg	0.50	0.0000		123.50	1.00	No Ice	0.79	0.01
				0.00					1/2" Ice	0.92	0.01

Description	Face or Leg	Dish Type	Offset Type	Offsets: Horz Lateral / Vert (ft)	Azimuth Adjustment (°)	3 dB Beam Width (°)	Elevation (ft)	Outside Diameter (ft)		Aperture Area (ft^2)	Weight (K)
				0.00					1" Ice	1.06	0.02
1' Std. Dish (Verizon)	C	Paraboloid w/o Radome	From Leg	0.50	0.0000		123.50	1.00	No Ice	0.79	0.01
				0.00					1/2" Ice	0.92	0.01
				0.00					1" Ice	1.06	0.02

Load Combinations

Comb. No.	Description
1	Dead Only
2	1.2 Dead+1.6 Wind 0 deg - No Ice
3	0.9 Dead+1.6 Wind 0 deg - No Ice
4	1.2 Dead+1.6 Wind 30 deg - No Ice
5	0.9 Dead+1.6 Wind 30 deg - No Ice
6	1.2 Dead+1.6 Wind 60 deg - No Ice
7	0.9 Dead+1.6 Wind 60 deg - No Ice
8	1.2 Dead+1.6 Wind 90 deg - No Ice
9	0.9 Dead+1.6 Wind 90 deg - No Ice
10	1.2 Dead+1.6 Wind 120 deg - No Ice
11	0.9 Dead+1.6 Wind 120 deg - No Ice
12	1.2 Dead+1.6 Wind 150 deg - No Ice
13	0.9 Dead+1.6 Wind 150 deg - No Ice
14	1.2 Dead+1.6 Wind 180 deg - No Ice
15	0.9 Dead+1.6 Wind 180 deg - No Ice
16	1.2 Dead+1.6 Wind 210 deg - No Ice
17	0.9 Dead+1.6 Wind 210 deg - No Ice
18	1.2 Dead+1.6 Wind 240 deg - No Ice
19	0.9 Dead+1.6 Wind 240 deg - No Ice
20	1.2 Dead+1.6 Wind 270 deg - No Ice
21	0.9 Dead+1.6 Wind 270 deg - No Ice
22	1.2 Dead+1.6 Wind 300 deg - No Ice
23	0.9 Dead+1.6 Wind 300 deg - No Ice
24	1.2 Dead+1.6 Wind 330 deg - No Ice
25	0.9 Dead+1.6 Wind 330 deg - No Ice
26	1.2 Dead+1.0 Ice+1.0 Temp
27	1.2 Dead+1.0 Wind 0 deg+1.0 Ice+1.0 Temp
28	1.2 Dead+1.0 Wind 30 deg+1.0 Ice+1.0 Temp
29	1.2 Dead+1.0 Wind 60 deg+1.0 Ice+1.0 Temp
30	1.2 Dead+1.0 Wind 90 deg+1.0 Ice+1.0 Temp
31	1.2 Dead+1.0 Wind 120 deg+1.0 Ice+1.0 Temp
32	1.2 Dead+1.0 Wind 150 deg+1.0 Ice+1.0 Temp
33	1.2 Dead+1.0 Wind 180 deg+1.0 Ice+1.0 Temp
34	1.2 Dead+1.0 Wind 210 deg+1.0 Ice+1.0 Temp
35	1.2 Dead+1.0 Wind 240 deg+1.0 Ice+1.0 Temp
36	1.2 Dead+1.0 Wind 270 deg+1.0 Ice+1.0 Temp
37	1.2 Dead+1.0 Wind 300 deg+1.0 Ice+1.0 Temp
38	1.2 Dead+1.0 Wind 330 deg+1.0 Ice+1.0 Temp
39	Dead+Wind 0 deg - Service
40	Dead+Wind 30 deg - Service
41	Dead+Wind 60 deg - Service
42	Dead+Wind 90 deg - Service
43	Dead+Wind 120 deg - Service
44	Dead+Wind 150 deg - Service
45	Dead+Wind 180 deg - Service
46	Dead+Wind 210 deg - Service
47	Dead+Wind 240 deg - Service

Comb. No.	Description
48	Dead+Wind 270 deg - Service
49	Dead+Wind 300 deg - Service
50	Dead+Wind 330 deg - Service

Maximum Reactions

Location	Condition	Gov. Load Comb.	Vertical K	Horizontal, X K	Horizontal, Z K
Pole	Max. Vert	27	78.54	-0.05	9.13
	Max. H_x	20	48.18	29.31	0.07
	Max. H_z	2	48.18	-0.15	29.68
	Max. M_x	2	3339.78	-0.15	29.68
	Max. M_z	8	3297.70	-29.39	0.06
	Max. Torsion	9	7.17	-29.39	0.06
	Min. Vert	23	36.14	25.41	14.83
	Min. H_x	8	48.18	-29.39	0.06
	Min. H_z	14	48.18	-0.05	-29.62
	Min. M_x	14	-3329.50	-0.05	-29.62
	Min. M_z	20	-3289.74	29.31	0.07
	Min. Torsion	21	-7.03	29.31	0.07

Tower Mast Reaction Summary

Load Combination	Vertical K	$Shear_x$ K	$Shear_z$ K	Overturning Moment, M_x kip-ft	Overturning Moment, M_z kip-ft	Torque kip-ft
Dead Only	40.15	-0.00	-0.00	-1.34	1.02	-0.00
1.2 Dead+1.6 Wind 0 deg - No Ice	48.18	0.15	-29.68	-3339.78	-15.92	1.27
0.9 Dead+1.6 Wind 0 deg - No Ice	36.14	0.15	-29.68	-3299.43	-16.06	1.27
1.2 Dead+1.6 Wind 30 deg - No Ice	48.18	14.76	-25.61	-2881.40	-1654.24	-2.44
0.9 Dead+1.6 Wind 30 deg - No Ice	36.14	14.76	-25.61	-2846.53	-1634.81	-2.45
1.2 Dead+1.6 Wind 60 deg - No Ice	48.18	25.46	-14.80	-1664.94	-2854.59	-5.55
0.9 Dead+1.6 Wind 60 deg - No Ice	36.14	25.46	-14.80	-1644.64	-2820.82	-5.56
1.2 Dead+1.6 Wind 90 deg - No Ice	48.18	29.39	-0.06	-7.50	-3297.70	-7.16
0.9 Dead+1.6 Wind 90 deg - No Ice	36.14	29.39	-0.06	-7.02	-3258.63	-7.17
1.2 Dead+1.6 Wind 120 deg - No Ice	48.18	25.57	14.74	1657.21	-2870.52	-6.79
0.9 Dead+1.6 Wind 120 deg - No Ice	36.14	25.57	14.74	1637.79	-2836.55	-6.81
1.2 Dead+1.6 Wind 150 deg - No Ice	48.18	14.67	25.64	2884.07	-1646.52	-4.55
0.9 Dead+1.6 Wind 150 deg - No Ice	36.14	14.67	25.64	2849.99	-1627.17	-4.56
1.2 Dead+1.6 Wind 180 deg - No Ice	48.18	0.05	29.62	3329.50	-7.32	-1.14
0.9 Dead+1.6 Wind 180 deg -	36.14	0.05	29.62	3290.12	-7.53	-1.15

Load Combination	Vertical K	$Shear_x$ K	$Shear_z$ K	Overturning Moment, M_x kip-ft	Overturning Moment, M_z kip-ft	Torque kip-ft
No Ice						
1.2 Dead+1.6 Wind 210 deg - No Ice	48.18	-14.59	25.64	2881.18	1634.68	2.56
0.9 Dead+1.6 Wind 210 deg - No Ice	36.14	-14.59	25.64	2847.16	1614.87	2.56
1.2 Dead+1.6 Wind 240 deg - No Ice	48.18	-25.37	14.80	1661.65	2846.38	5.53
0.9 Dead+1.6 Wind 240 deg - No Ice	36.14	-25.37	14.80	1642.21	2812.08	5.54
1.2 Dead+1.6 Wind 270 deg - No Ice	48.18	-29.31	-0.07	-12.97	3289.74	7.02
0.9 Dead+1.6 Wind 270 deg - No Ice	36.14	-29.31	-0.07	-12.39	3250.14	7.03
1.2 Dead+1.6 Wind 300 deg - No Ice	48.18	-25.41	-14.83	-1672.61	2853.23	6.69
0.9 Dead+1.6 Wind 300 deg - No Ice	36.14	-25.41	-14.83	-1652.18	2818.83	6.70
1.2 Dead+1.6 Wind 330 deg - No Ice	48.18	-14.69	-25.61	-2883.46	1651.59	4.58
0.9 Dead+1.6 Wind 330 deg - No Ice	36.14	-14.69	-25.61	-2848.56	1631.52	4.59
1.2 Dead+1.0 Ice+1.0 Temp	78.54	-0.00	-0.00	-7.09	1.84	0.00
1.2 Dead+1.0 Wind 0 deg+1.0 Ice+1.0 Temp	78.54	0.05	-9.13	-1048.02	-3.80	0.27
1.2 Dead+1.0 Wind 30 deg+1.0 Ice+1.0 Temp	78.54	4.56	-7.89	-906.20	-516.69	-0.62
1.2 Dead+1.0 Wind 60 deg+1.0 Ice+1.0 Temp	78.54	7.86	-4.56	-526.93	-892.12	-1.35
1.2 Dead+1.0 Wind 90 deg+1.0 Ice+1.0 Temp	78.54	9.07	-0.02	-9.72	-1030.22	-1.72
1.2 Dead+1.0 Wind 120 deg+1.0 Ice+1.0 Temp	78.54	7.88	4.53	510.03	-895.59	-1.61
1.2 Dead+1.0 Wind 150 deg+1.0 Ice+1.0 Temp	78.54	4.52	7.89	892.72	-512.89	-1.06
1.2 Dead+1.0 Wind 180 deg+1.0 Ice+1.0 Temp	78.54	0.01	9.11	1031.83	0.40	-0.23
1.2 Dead+1.0 Wind 210 deg+1.0 Ice+1.0 Temp	78.54	-4.51	7.90	892.84	514.22	0.65
1.2 Dead+1.0 Wind 240 deg+1.0 Ice+1.0 Temp	78.54	-7.83	4.56	512.82	892.83	1.34
1.2 Dead+1.0 Wind 270 deg+1.0 Ice+1.0 Temp	78.54	-9.05	-0.01	-9.41	1031.03	1.68
1.2 Dead+1.0 Wind 300 deg+1.0 Ice+1.0 Temp	78.54	-7.84	-4.56	-527.48	893.87	1.58
1.2 Dead+1.0 Wind 330 deg+1.0 Ice+1.0 Temp	78.54	-4.53	-7.88	-905.84	517.40	1.07
Dead+Wind 0 deg - Service	40.15	0.04	-7.38	-826.26	-3.20	0.32
Dead+Wind 30 deg - Service	40.15	3.67	-6.37	-712.98	-408.02	-0.62
Dead+Wind 60 deg - Service	40.15	6.33	-3.68	-412.39	-704.60	-1.40
Dead+Wind 90 deg - Service	40.15	7.31	-0.02	-2.85	-814.09	-1.81
Dead+Wind 120 deg - Service	40.15	6.35	3.66	408.49	-708.56	-1.72
Dead+Wind 150 deg - Service	40.15	3.65	6.37	711.66	-406.12	-1.15
Dead+Wind 180 deg - Service	40.15	0.01	7.36	821.73	-1.07	-0.29
Dead+Wind 210 deg - Service	40.15	-3.62	6.37	710.93	404.67	0.65
Dead+Wind 240 deg - Service	40.15	-6.31	3.68	409.58	704.05	1.40
Dead+Wind 270 deg - Service	40.15	-7.28	-0.02	-4.20	813.59	1.77
Dead+Wind 300 deg - Service	40.15	-6.31	-3.69	-414.29	705.75	1.69
Dead+Wind 330 deg - Service	40.15	-3.65	-6.37	-713.49	408.84	1.16

Solution Summary

Load Comb.	Sum of Applied Forces PX K	PY K	PZ K	Sum of Reactions PX K	PY K	PZ K	% Error
1	0.00	-40.15	0.00	0.00	40.15	0.00	0.000%
2	0.15	-48.18	-29.68	-0.15	48.18	29.68	0.000%
3	0.15	-36.14	-29.68	-0.15	36.14	29.68	0.000%
4	14.76	-48.18	-25.61	-14.76	48.18	25.61	0.000%
5	14.76	-36.14	-25.61	-14.76	36.14	25.61	0.000%
6	25.46	-48.18	-14.80	-25.46	48.18	14.80	0.000%
7	25.46	-36.14	-14.80	-25.46	36.14	14.80	0.000%
8	29.39	-48.18	-0.06	-29.39	48.18	0.06	0.000%
9	29.39	-36.14	-0.06	-29.39	36.14	0.06	0.000%
10	25.57	-48.18	14.74	-25.57	48.18	-14.74	0.000%
11	25.57	-36.14	14.74	-25.57	36.14	-14.74	0.000%
12	14.67	-48.18	25.64	-14.67	48.18	-25.64	0.000%
13	14.67	-36.14	25.64	-14.67	36.14	-25.64	0.000%
14	0.05	-48.18	29.62	-0.05	48.18	-29.62	0.000%
15	0.05	-36.14	29.62	-0.05	36.14	-29.62	0.000%
16	-14.59	-48.18	25.64	14.59	48.18	-25.64	0.000%
17	-14.59	-36.14	25.64	14.59	36.14	-25.64	0.000%
18	-25.37	-48.18	14.80	25.37	48.18	-14.80	0.000%
19	-25.37	-36.14	14.80	25.37	36.14	-14.80	0.000%
20	-29.31	-48.18	-0.07	29.31	48.18	0.07	0.000%
21	-29.31	-36.14	-0.07	29.31	36.14	0.07	0.000%
22	-25.41	-48.18	-14.83	25.41	48.18	14.83	0.000%
23	-25.41	-36.14	-14.83	25.41	36.14	14.83	0.000%
24	-14.69	-48.18	-25.61	14.69	48.18	25.61	0.000%
25	-14.69	-36.14	-25.61	14.69	36.14	25.61	0.000%
26	0.00	-78.54	0.00	0.00	78.54	0.00	0.000%
27	0.05	-78.54	-9.13	-0.05	78.54	9.13	0.000%
28	4.56	-78.54	-7.89	-4.56	78.54	7.89	0.000%
29	7.86	-78.54	-4.56	-7.86	78.54	4.56	0.000%
30	9.07	-78.54	-0.02	-9.07	78.54	0.02	0.000%
31	7.88	-78.54	4.53	-7.88	78.54	-4.53	0.000%
32	4.52	-78.54	7.89	-4.52	78.54	-7.89	0.000%
33	0.01	-78.54	9.11	-0.01	78.54	-9.11	0.000%
34	-4.51	-78.54	7.90	4.51	78.54	-7.90	0.000%
35	-7.83	-78.54	4.56	7.83	78.54	-4.56	0.000%
36	-9.05	-78.54	-0.01	9.05	78.54	0.01	0.000%
37	-7.84	-78.54	-4.56	7.84	78.54	4.56	0.000%
38	-4.53	-78.54	-7.88	4.53	78.54	7.88	0.000%
39	0.04	-40.15	-7.38	-0.04	40.15	7.38	0.000%
40	3.67	-40.15	-6.37	-3.67	40.15	6.37	0.000%
41	6.33	-40.15	-3.68	-6.33	40.15	3.68	0.000%
42	7.31	-40.15	-0.02	-7.31	40.15	0.02	0.000%
43	6.35	-40.15	3.66	-6.35	40.15	-3.66	0.000%
44	3.65	-40.15	6.37	-3.65	40.15	-6.37	0.000%
45	0.01	-40.15	7.36	-0.01	40.15	-7.36	0.000%
46	-3.62	-40.15	6.37	3.62	40.15	-6.37	0.000%
47	-6.31	-40.15	3.68	6.31	40.15	-3.68	0.000%
48	-7.28	-40.15	-0.02	7.28	40.15	0.02	0.000%
49	-6.31	-40.15	-3.69	6.31	40.15	3.69	0.000%
50	-3.65	-40.15	-6.37	3.65	40.15	6.37	0.000%

Non-Linear Convergence Results

Load Combination	Converged?	Number of Cycles	Displacement Tolerance	Force Tolerance
1	Yes	4	0.00000001	0.00000001
2	Yes	5	0.00000001	0.00016787
3	Yes	5	0.00000001	0.00007409
4	Yes	6	0.00000001	0.00018250
5	Yes	6	0.00000001	0.00005310
6	Yes	6	0.00000001	0.00020383
7	Yes	6	0.00000001	0.00006059
8	Yes	5	0.00000001	0.00067006
9	Yes	5	0.00000001	0.00029845
10	Yes	6	0.00000001	0.00017300
11	Yes	6	0.00000001	0.00004991
12	Yes	6	0.00000001	0.00020130
13	Yes	6	0.00000001	0.00005961
14	Yes	5	0.00000001	0.00013376
15	Yes	5	0.00000001	0.00005918
16	Yes	6	0.00000001	0.00019423
17	Yes	6	0.00000001	0.00005738
18	Yes	6	0.00000001	0.00017486
19	Yes	6	0.00000001	0.00005074
20	Yes	5	0.00000001	0.00067955
21	Yes	5	0.00000001	0.00030265
22	Yes	6	0.00000001	0.00020795
23	Yes	6	0.00000001	0.00006188
24	Yes	6	0.00000001	0.00017751
25	Yes	6	0.00000001	0.00005134
26	Yes	4	0.00000001	0.00016343
27	Yes	6	0.00000001	0.00022971
28	Yes	6	0.00000001	0.00036197
29	Yes	6	0.00000001	0.00037582
30	Yes	6	0.00000001	0.00023155
31	Yes	6	0.00000001	0.00034631
32	Yes	6	0.00000001	0.00036223
33	Yes	6	0.00000001	0.00022363
34	Yes	6	0.00000001	0.00035835
35	Yes	6	0.00000001	0.00034651
36	Yes	6	0.00000001	0.00023125
37	Yes	6	0.00000001	0.00037944
38	Yes	6	0.00000001	0.00036026
39	Yes	4	0.00000001	0.00025720
40	Yes	5	0.00000001	0.00008119
41	Yes	5	0.00000001	0.00010937
42	Yes	5	0.00000001	0.00004920
43	Yes	5	0.00000001	0.00007694
44	Yes	5	0.00000001	0.00010514
45	Yes	4	0.00000001	0.00023383
46	Yes	5	0.00000001	0.00009541
47	Yes	5	0.00000001	0.00007621
48	Yes	5	0.00000001	0.00004861
49	Yes	5	0.00000001	0.00011590
50	Yes	5	0.00000001	0.00007841

Compression Checks

Pole Design Data

Section No.	Elevation	Size	L	L_u	Kl/r	A	P_u	ϕP_n	Ratio $\frac{P_u}{\phi P_n}$
	ft		ft	ft		in^2	K	K	
L1	150 - 97 (1)	TP31.773x24x0.1875	53.00	0.00	0.0	18.4046	-10.97	1144.93	0.010
L2	97 - 86 (2)	TP33x30.738x0.25	15.50	0.00	0.0	25.9871	-14.26	1780.93	0.008
L3	86 - 66.5 (3)	TP35.872x33x0.399	19.50	0.00	0.0	43.9913	-18.90	3268.34	0.006
L4	66.5 - 36.5 (4)	TP39.772x34.3376x0.441	35.00	0.00	0.0	53.8576	-30.16	4001.35	0.008
L5	36.5 - 0 (5)	TP44.5x38.036x0.484	42.00	0.00	0.0	67.6181	-48.16	5023.69	0.010

Pole Bending Design Data

Section No.	Elevation	Size	M_{ux}	ϕM_{nx}	Ratio $\frac{M_{ux}}{\phi M_{nx}}$	M_{uy}	ϕM_{ny}	Ratio $\frac{M_{uy}}{\phi M_{ny}}$
	ft		kip-ft	kip-ft		kip-ft	kip-ft	
L1	150 - 97 (1)	TP31.773x24x0.1875	608.63	729.39	0.834	0.00	729.39	0.000
L2	97 - 86 (2)	TP33x30.738x0.25	972.95	1199.63	0.811	0.00	1199.63	0.000
L3	86 - 66.5 (3)	TP35.872x33x0.399	1332.03	2326.19	0.573	0.00	2326.19	0.000
L4	66.5 - 36.5 (4)	TP39.772x34.3376x0.441	2123.44	3154.65	0.673	0.00	3154.65	0.000
L5	36.5 - 0 (5)	TP44.5x38.036x0.484	3339.82	4532.90	0.737	0.00	4532.90	0.000

Pole Shear Design Data

Section No.	Elevation	Size	Actual V_u	ϕV_n	Ratio $\frac{V_u}{\phi V_n}$	Actual T_u	ϕT_n	Ratio $\frac{T_u}{\phi T_n}$
	ft		K	K		kip-ft	kip-ft	
L1	150 - 97 (1)	TP31.773x24x0.1875	22.88	572.46	0.040	1.34	1461.91	0.001
L2	97 - 86 (2)	TP33x30.738x0.25	24.11	890.46	0.027	1.34	2404.97	0.001
L3	86 - 66.5 (3)	TP35.872x33x0.399	25.64	1634.17	0.016	1.27	4666.13	0.000
L4	66.5 - 36.5 (4)	TP39.772x34.3376x0.441	27.86	2000.68	0.014	1.27	6327.91	0.000
L5	36.5 - 0 (5)	TP44.5x38.036x0.484	29.72	2511.84	0.012	1.27	9091.92	0.000

Pole Interaction Design Data

Section No.	Elevation	Ratio $\frac{P_u}{\phi P_n}$	Ratio $\frac{M_{ux}}{\phi M_{nx}}$	Ratio $\frac{M_{uy}}{\phi M_{ny}}$	Ratio $\frac{V_u}{\phi V_n}$	Ratio $\frac{T_u}{\phi T_n}$	Comb. Stress Ratio	Allow. Stress Ratio	Criteria
	ft								
L1	150 - 97 (1)	0.010	0.834	0.000	0.040	0.001	0.846 ✔	1.000	4.8.2 ✔
L2	97 - 86 (2)	0.008	0.811	0.000	0.027	0.001	0.820 ✔	1.000	4.8.2 ✔
L3	86 - 66.5 (3)	0.006	0.573	0.000	0.016	0.000	0.579 ✔	1.000	4.8.2 ✔
L4	66.5 - 36.5 (4)	0.008	0.673	0.000	0.014	0.000	0.681 ✔	1.000	4.8.2 ✔
L5	36.5 - 0 (5)	0.010	0.737	0.000	0.012	0.000	0.747 ✔	1.000	4.8.2 ✔

Section Capacity Table

Section No.	Elevation ft	Component Type	Size	Critical Element	P K	ϕP_{allow} K	% Capacity	Pass Fail
L1	150 - 97	Pole	TP31.773x24x0.1875	1	-10.97	1144.93	84.6	Pass
L2	97 - 86	Pole	TP33x30.738x0.25	2	-14.26	1780.93	82.0	Pass
L3	86 - 66.5	Pole	TP35.872x33x0.399	3	-18.90	3268.34	57.9	Pass
L4	66.5 - 36.5	Pole	TP39.772x34.3376x0.441	4	-30.16	4001.35	68.1	Pass
L5	36.5 - 0	Pole	TP44.5x38.036x0.484	5	-48.16	5023.69	74.7	Pass
							Summary	
						Pole (L1)	84.6	Pass
						RATING =	84.6	Pass

Structural Components, LLC

By:	NWB	Job #:	19313.018.	Sheet:	
Date:	3/11/2020	Project:	NY001 Vista	Subject:	VZW
Principal:	CS	Client:	Insite		

Monopole Splice Calculator
Assumptions / Criteria
ASCE/SEI 48-05
AISC
TIA

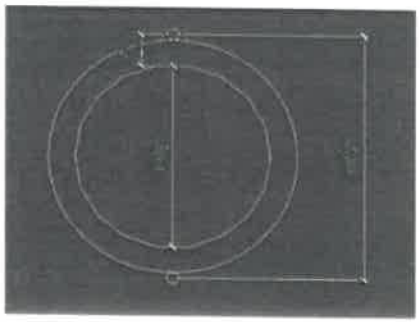
Notes:

Anchor bolt stress for TIA-222-G assumes detail type d connection per figure 4-4. Free length between concrete and leveling nut does not exceed 1" bolt diameter.

Height feet	bolt dia. in	bolt circle dia in	fy ksi	fu ksi	Per Piece A reinf only in^2	Per Piece Ix reinf only in^4	quantity n	dist centoid to centroid in	dist centroid to outer reinf. Fiber in	Properties Ax total in^2	Ix total in^4	Sx total in^3	LRFD Mmax k-ft	ASD Mmax k-ft	4/3rds Mmax k-ft
bolt	2.25	81.5	75	100	3.248	1.258	14	25.75	1.125	45.47	15091.53	581.55	3158.89	2105.79	2807.73
reinf	2.75	80.25	105	125	4.928	2.807	3	30.13	1.375	14.79	5713.06	213.11	1678.26	1118.84	1491.79
total			105	125			17	26.82		60.25	21804.58	817.88	4836.96	3224.64	4299.52

Max usable reinf stress 75.00 ksi O.K. *only applies when reinforcement anchor rods are installed*

Moment required 3340.00 k-ft
Axial required 48.00 k
Shear required 30.00 k



ASD		LRFD		
Ω	2.00	Φ	0.90	0.75
Allowable Stress	1.33	Φ_{AR}	0.80	
Axial Max Bolt	194.8 k	Axial Max Bolt	243.6 k	
Axial Max reinf*	250.0 k	Axial Max reinf	335.0 k	
Shear Max Bolt	108.3 k	Shear Max Bolt	109.8 k	
Stress at reinf	56.2 ksi	Stress at reinf	3.7 ksi	
Axial to Bolt	156.3 k	Axial to Bolt	152.5 k	
Axial to reinf	276.8 k	Axial to reinf	276.8 k	
Shear to Bolt	1.9 k	Shear to Bolt	1.8 k	

*governed by base termination connections.

Splice Plate Analysis

Odd/Even Active Bolt #	Odd TRUE	Even TRUE
Round or Square	1 (round=1,square=0)	1 (round=1,square=0)
Plate Thickness	2.25 in	2.25 in
Pole Base Diameter	44.5 in	44.5 in
Plate Yield	50 ksi	50 ksi
Bendline	25.92 in	25.92 in
Inclusion Angle	60.44 deg	60.44 deg
D_1	3.50 in	2.85 in
D_2	0.95 in	0.00 in
D_3	0.00 in	0.00 in
D_4	0.00 in	0.00 in
BL_1	156.3 k	152.5 k
BL_2	141.1 k	0.0 k
BL_3	0.0 k	0.0 k
BL_4	0.0 k	0.0 k
M_1	547.1 kip*in	570.3 kip*in
M_2	268.0 kip*in	0.0 kip*in
M_3	0.0 kip*in	0.0 kip*in
M_4	0.0 kip*in	0.0 kip*in
ASD		
Bending Stress	37.3 ksi	39.8 ksi
Allowable Stress	50.0 ksi	50.0 ksi
Ratio	0.746	0.796
LRFD		
Bending Stress	37.3 ksi	39.8 ksi
Allowable Stress	45.0 ksi	45.0 ksi
Ratio	0.828	0.884

LRFD Ratings

Plate	89%
Bolt	82%
Reinforcement	92%

PROJECT No:	19313.018		**ENG:**	NWB
PROJECT NAME:	NY001 Vista		**CHK:**	JB
	InSite Towers			
DATE:	March 11, 2020		**PAGE:**	of

TIA-222-G

SINGLE GLOBAL FOUNDATION WITH PIER(s) CHECKS

Global Tower Reactions		*Factored Loads*		*Calculated Reactions*		**Factored Resistance**				
◉TIA-G	Maximum Moment	3,340.00	k-ft	Disturbing Moment	3,580.0	5,580.7	k-ft	pass	64.2%	[GOVERNS]
○EIA-F	Axial Load	48.00	kips	Maximum Bearing	3.14	5.25	kips	pass	59.9%	
	Shear Load	30.00	kips	Punching Shear	574.4	2,014.2	kips	pass	28.5%	
	Pier Rebar Required	(minimum only, use PCACOL for total quantity)		(17) #10 @ 12.20 in **MINIMUM**						
	Rebar Required	(checked rebar for 6" min to 24" max spacing)		(13) #10 @ 22.50 in				SF=3.12		

Soil Parameters	**Soils Report**	**Pier Geometry**		**Pad Geometry**	
ϕ	30.0 °	Qty of Piers	1	Width (Bm)	23.00 ft
Water Level	10.00 ft (3.05 m)	Width (Bp)	6.00 ft	Width (Wm)	23.00 ft
Soil Dry Density (γ_{dry})	0.120 kcf (18.8 kN/m³)	Width (Wp)	6.00 ft	Height (Hm)	3.00 ft
Soil Sub Density (γ_{sub})	0.057 kcf (8.95 kN/m³)	Height (Hp)	5.00 ft	Depth (D)	7.50 ft
All. Bearing Pressure	3.500 ksf (167.6 kPa)	Pier Type	R (Rnd or Sq)		
Bearing Safety Factor	2	Conc γ_{dry}	0.150 kcf (23.6)		

Volume of Concrete/Soil	Concrete (64.0cuyd) 1 Pier	Mat	Soil	
Depth (above)	0.50	–	–	ft
Depth (dry)	4.50	3.00	4.50	ft
Depth (submerged)	0.00	0.00	0.00	ft
Volume (above)	14.11	–	–	ft³
Volume (dry)	127.01	1,587.00	2831.79	ft³
Volume (submerged)	0.00	0	0.00	ft³
Total	141	1587	2832	ft³

Concrete Reinforcing Design				
f'c	4.000	ksi	(27.6 MPa)	
fy	60.00	ksi	(413.7 MPa)	
	MAT		PIER	
Steel (Metric/ASTM)	ASTM		ASTM	
Bar size	10	#	10	#
	1.270	in²	1.270	in²

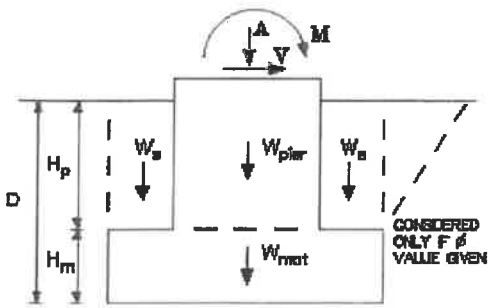
Slab Reinforcing				
½ Disturbing Moment	1790.00	kip-ft		
Ku	71.47		Wgt of Rebar	
ρ	0.00134		5,056	lbs
4/3•ρ if ρ < ρ min	0.00178			
ρ min ≥ 0.0018	0.00180			
As	15.90	in²		
Number of bars	13	bars on 22.50		in c/c

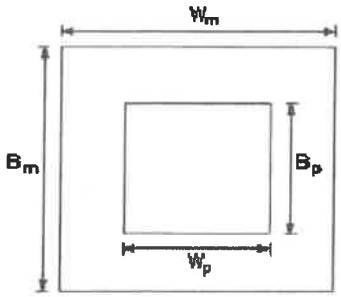
Note: The 1/2 moment is derived from a bending moment diagram that considered the uplift and download components at the exact face width of the tower.

Calculations	*Factored*	*Allowable*	
Axial Download	48.0	--	kips
Weight of Concrete (not factored)	259.2	--	kips(64.0yds)
Weight of Soil (not factored)	339.8	--	kips
Total Download (P)	647.0	--	kips
Resisting Moment Arm	11.5	--	ft
Moment Resistance	5580.7	--	k-ft
	(x 0.75, cl 9.4.1)		

Bearing Capacity Check			
Contact Area	529.00	--	ft²
Calculate eccentricity e	5.53	--	ft [>L/6]
Calculate (c = L/2 - e)	5.97	--	ft
1) q_{max} = P/A • (1+6e/L)	--	--	
2) q_{max} = 2P / b•3c	3.14	--	ksf [GOV]
$q_{allowable}$	5.25	--	ksf
	(2 • 0.75)		

Check for 2-Way Shear (Punching)			
Shear Area (bo x d)	73.72	--	ft²
Factored Bearing Stress	1.223	--	ksf
Factored Shear Force	574.36	--	kips
Factored Shear Resistance	2014.2	--	kips
Check for 2-way Shear	0.29	--	
	(ACI-318)		





M =	3340.0 k-ft
A =	48.0 kips
V =	30.0 kips
Bp =	6.00 ft
Wp =	6.00 ft
Hp =	5.00 ft
Bm =	23.00 ft
Wm =	23.00 ft
Hm =	3.00 ft
D =	7.50 ft

V_{mat} = 1728.1 cuft

Rebar = (13) #10 @ 22.50 in

Attachment 2:
Collocation Application

WORKSHEET 1 OF 2 (COMPLETE BOTH WORKSHEET TABS)

InSite Towers, LLC

CUSTOMER APPLICATION

DATE SUBMITTED: 07/29/19

A Site Application Fee to be paid upon submission of this Customer Application.

CUSTOMER INFORMATION

COMPANY NAME:	Verizon Wireless	PHONE:	
ENTITY Type: i.e. Inc., LLP	LLP	FAX:	
STATE of Inc.	New York	SERVICE (PCS, SMR):	

CUSTOMER ADDRESSES

COMPANY Address:	One Verizon Way, Mail Stop 4AW100	CITY/STATE:	Basking Ridge, NJ	ZIP :	07920
BILLING Address:	One Verizon Way, Mail Stop 4AW100	CITY/STATE:	Basking Ridge, NJ	ZIP :	07920
NOTICE Address 1:	One Verizon Way, Mail Stop 4AW100	CITY/STATE:	Basking Ridge, NJ	ZIP :	07920
NOTICE Address 2:		CITY/STATE:		ZIP :	

CUSTOMER CONTACTS

PRIMARY CONTACT:	Maria Dimitrakiou	PHONE:	973-452-1989
TITLE:	Site Acquisition Agent	E-MAIL Address:	md@streamlinesag.com
SIGNATORY NAME:	Andrew Allen	PHONE:	
TITLE:	Director, Network Field Engineering	E-MAIL Address:	
EMERGENCY CONTACT:		PHONE:	
TITLE:		E-MAIL Address:	
TECHNICAL/OPS:	Brett Liquori	PHONE:	
TITLE:	Construction Manager	E-MAIL Address:	bliquori77@gmail.com
RF ENGINEER:	Simerdeep Kaur	PHONE:	917-693-9999
TITLE:	RF Engineer	E-MAIL Address:	simerdeep.kaur@verizonwireless.com
BILLING CONTACT:		PHONE:	
TITLE:		E-MAIL Address:	
LEGAL CONTACT:		PHONE:	
TITLE:		E-MAIL Address:	

SITE INFORMATION

CUSTOMER Site # / Name:	171228 / EAST WOODS	INSITE Site # and Name:	NY001/ Vista
SITE LATITUDE:	41.214444	SITE LONGITUDE:	-73.515083
SITE ADDRESS:	377 Smith Ridge Road, South Salem	CITY:	Westchester
STATE:	NY ZIP: 10590	STRUCTURE TYPE:	Monopole

USE THIS SECTION TO PROVIDE A DESCRIPTION OF COLOCATION OR MODIFICATION REQUEST

Current install: (12) antennas (6) RRU (3) Surge (12) coax (3) Hybrid (3) GPS (3) GPS lines.
Replace existing (3) Andrew SBNHH-1D65A_PORT 1 - 45_00DT_0750 (550598) with Andrew JAHH-65BR3B_1DT_1900 (740156) antennas. Replace (3) Andrew SBNHH-1D65A_PORT 1 - 45_00DT_2130 (550601) with (3) Andrew JAHH-65BR3B_1DT_2100 (740157) antennas. Replace (3) existing Alcatel Lucent AWS RRH 2x60 with (3) Nokia AirScale Dual RRH 4T4R B2/66a 320W AHFIC, Replace (3) leased Alcatel Lucent AWS RRH 2x60 with (3) Installed Nokia ALCATEL B13 RRH 4X30, Replace (3) not installed Alcatel Lucent AWS RRH 2x60 with (3) Nokia AirScale RRH 4T4R B5 160W AHCA. Removing (3) SBNHH-1D65A antennas & (6) coax. Retaining reserved rights to (3) SNBHH-1D65A antennas and (3) Alcatel Lucent AWS RRH 2x60 RRH (12) 1 5/8" coax. Documenting 3rd GPS and it's line installed and documenting DBX antennas are 6565A instead of 8585A (similiar is size). Final config: (9) antennas (9) RRH (3) Surge (6) coax (3) Hybrid (3) GPS (3) GPS lines. Reserved rights: (3) antennas (3) RRH (12) coax plus (2) dish (2) dish lines located at Licensors discretion.

USE THIS SECTION TO LIST EQUIPMENT TO BE REMOVED

(9) Andrew SBNHH-1D65A (3) Alcatel Lucent AWS RRH 2x60 (6) 1 5/8" coax

APPLICATION PREPARED BY

NAME:	Maria Dimitrakiou	PHONE:	973-452-1989
COMPANY:	Streamline Site Acquisition Services LLC	ADDRESS:	3 Denise Drive, Kinnelon, NJ 07405
TITLE:	Site Acquisition Agent	E-MAIL Address:	md@streamlinesag.com

EXHIBIT
Equipment

Site Name and #: NY001/ Vista **Licensee Name:** Verizon Wireless

The mounting method and exact location of the space and equipment listed herein shall be subject to InSite's approval.

SYSTEM REQUIREMENTS									
POWER provided by:	Utility Company Direct				TELCO provided by:	T1			
Power Requirements:	Amps:	200	Volts	120/240	No. of Outlets:	None			
Generator Provided by:	Licensee	Make:	On Site Energy	Model:	50 Kw	Fuel Type:	Nat. Gas	Capacity:	1,000 gal.
Batteries:	Quantity:	Two (2)	Make:	GNB Absolyte	Model:	100G33			
Note: audible alarms related to generator and other equipment shall be permanently disabled at unmanned sites									
SPACE REQUIREMENTS & RADIO INVENTORY									
Type of Space Required:	Ground:	Yes	Floor:	No	Total Square Feet:	808 sq. ft.			
Dimensions of Equipment Floor/Ground Space:			47'-6" x 17'		Equipment Height:	N/A			
Dimensions of Generator Ground Space:			Inside shelter included in above		Dimensions of Fuel Tank Ground Space:		Included in above		
No. of Transmitters (Tx):	Four (4)	Transmitter Make/Model:	In shelter		Transmitter Power Output:	N/A			
No. of Receivers (Rx):	Four (4)	Receiver Make/Model:	In shelter		Transmitter ERP:	N/A			
Cabinet also contains:	N/A								

EQUIPMENT LOADING DESCRIPTION (FINAL CONFIGURATION)					
	Sector 1	Sector 2	Sector 3	DISH(ES)	OTHER
Antenna Type (1):	Panel	Panel	Panel	Parabolic	GPS
# of Antennas (1)/ Sector:	Two (2)	Two (2)	Two (2)	Two (2) Reserved	Three (3)
Tx, Rx or Both:	Both	Both	Both	TBD	Receive
Antenna Manufacturer (1):	Andrew	Andrew	Andrew	TBD	PCTEL
Antenna Model (1):	JAHH-65BR3B	JAHH-65BR3B	JAHH-65BR3B	TBD	GPS-TMG-HR-26N
Antenna Dimensions (1):	72" x 13.8" x 8.2"	72" x 13.8" x 8.2"	72" x 13.8" x 8.2"	One Foot (1')	5" x 3.2" dia.
Antenna Weight (1):	63.3 lbs	63.3 lbs	63.3 lbs	TBD	0.6 lbs
Antenna RAD Ctr (1):	123.5'	123.5'	123.5'	at licensors discretion	73.5'
Antenna Type (2):	Panel	Panel	Panel	N/A	N/A
# of Antennas (2)/ Sector:	One (1) Reserved	One (1) Reserved	One (1) Reserved	None	None
Tx, Rx or Both:	Both	Both	Both	N/A	N/A
Antenna Manufacturer (2):	Commscope	Commscope	Commscope	N/A	N/A
Antenna Model (2):	SBNHH-1D65A	SBNHH-1D65A	SBNHH-1D65A	N/A	N/A
Antenna Dimensions (2):	55" x 11.9" x 7.1"	55" x 11.9" x 7.1"	55" x 11.9" x 7.1"	N/A	N/A
Antenna Weight (2):	33.5 lbs	33.5 lbs	33.5 lbs	N/A	N/A
Antenna RAD Ctr (2):	123.5'	123.5'	123.5'	N/A	N/A
Antenna Type (3):	Panel	Panel	Panel	N/A	N/A
# of Antennas (3)/ Sector:	One (1)	One (1)	One (1)	None	None
Tx, Rx or Both:	Both	Both	Both	N/A	N/A
Antenna Manufacturer (3):	Andrew	Andrew	Andrew	N/A	N/A
Antenna Model (3):	DBXNH-6565A-A2M	DBXNH-6565A-A2M	DBXNH-6565A-A2M	N/A	N/A
Antenna Dimensions (3):	50.9" x 11.9" x 7.1"	50.9" x 11.9" x 7.1"	50.9" x 11.9" x 7.1"	N/A	N/A
Antenna Weight (3):	34.2 lbs	34.2 lbs	34.2 lbs	N/A	N/A
Antenna RAD Ctr (3):	123.5'	123.5'	123.5'	N/A	N/A
# of RRU/RRHs/ Sector (1):	One (1)	One (1)	One (1)		
RRU/RRH Manufacturer (1):	Nokia	Nokia	Nokia		
RRU/RRH Model (1):	AirScale Dual RRH 4T4R B2/66a 320W, AHFIC	AirScale Dual RRH 4T4R B2/66a 320W, AHFIC	AirScale Dual RRH 4T4R B2/66a 320W, AHFIC		
RRU/RRH Dimensions (1):	22" x 12.1" x 7.1"	22" x 12.1" x 7.1"	22" x 12.1" x 7.1"		
RRU/RRH Weight (1):	79.3 lbs	79.3 lbs	79.3 lbs		
RRU/RRH RAD Ctr (1):	123.5'	123.5'	123.5'		
# of RRU/RRHs/ Sector (2):	One (1)	One (1)	One (1)		
RRU/RRH Manufacturer (2):	Nokia	Nokia	Nokia		
RRU/RRH Model (2):	Alcatel B13 RRH 4X30	Alcatel B13 RRH 4X30	Alcatel B13 RRH 4X30		
RRU/RRH Dimension (2):	20.9" x 11.8" x 7.5"	20.9" x 11.8" x 7.5"	20.9" x 11.8" x 7.5"		
RRU/RRH Weight (2):	55.6 lbs	55.6 lbs	55.6 lbs		
RRU/RRH RAD Ctr (2):	123.5'	123.5'	123.5'		
# of RRU/RRHs/ Sector (3):	One (1)	One (1)	One (1)		
RRU/RRH Manufacturer (3):	Nokia	Nokia	Nokia		
RRU/RRH Model (3):	AirScale RRH 4T4R B5 160W AHCA	AirScale RRH 4T4R B5 160W AHCA	AirScale RRH 4T4R B5 160W AHCA		
RRU/RRH Dimension (3):	13.26" x 11.61" x 6.5"	13.26" x 11.61" x 6.5"	13.26" x 11.61" x 6.5"		
RRU/RRH Weight (3):	35.27 lbs	35.27 lbs	35.27 lbs		
RRU/RRH RAD Ctr (3):	123.5'	123.5'	123.5'		
# of RRU/RRHs/ Sector (4):	One (1)	One (1)	One (1)		
RRU/RRH Manufacturer (4):	Alcatel Lucent	Alcatel Lucent	Alcatel Lucent		
RRU/RRH Model (4):	AWS RRH 2x60	AWS RRH 2x60	AWS RRH 2x60		
RRU/RRH Dimension (4):	10.6" x 5.75" x 36.6"	10.6" x 5.75" x 36.6"	10.6" x 5.75" x 36.6"		
RRU/RRH Weight (4):	55 lbs	55 lbs	55 lbs		
RRU/RRH RAD Ctr (4):	123.5'	123.5'	123.5'		
# of TMAs/ Sector:	None	None	None		
# of Diplexers/ Sector:	None	None	None		
# of Surge Suppressors/Sctr:	One (1)	One (1)	One (1)		
Surge Suppressor Make:	Raycap	Raycap	Raycap		
Surge Suppressor Model:	RXX-DC-3315-PF-48	RXX-DC-3315-PF-48	RXX-DC-3315-PF-48		
Surge Supressor Dimensions:	19.5" x 15.73" x 10.31"	19.5" x 15.73" x 10.31"	19.5" x 15.73" x 10.31"		

EQUIPMENT LOADING DESCRIPTION (FINAL CONFIGURATION)

	Sector 1	Sector 2	Sector 3	DISH(ES)	OTHER
Surge Supressor Weight:	32 lbs	32 lbs	32 lbs	Please include microwave dish frequencies below:	Please include microwave dish frequencies below:
Surge Supressors RAD Ctr:	123.5'	123.5'	123.5'		
OTHERS:	None	None	None		
Transmit Frequencies:	1970-1990, 880-890, 891.5-894, 746-757, 2110-2130 MHz			TBD	N/A
Receive Frequencies:	1890-1910, 835-845, 846.5-849, 776-787, 1710-1730 MHz			TBD	N/A
# of Lines:	Two (2)	Two (2)	Two (2)	Two (2) Reserved	Three (3)
Line Size:	1-5/8"	1-5/8"	1-5/8"	Cat5	7/8"
# of Lines:	One (1)	One (1)	One (1)	None	None
Line Size:	1-1/4" Hybrid	1-1/4" Hybrid	1-1/4" Hybrid	N/A	N/A
# of Lines:	Four (4) Reserved	Four (4) Reserved	Four (4) Reserved	None	None
Line Size:	1 5/8"	1 5/8"	1 5/8"	N/A	N/A
Mount Type:	T-Arm	T-Arm	T-Arm	N/A	Standoff (Qty: 2)
Mount Size:	Twelve Feet (12.5')	Twelve Feet (12.5')	Twelve Feet (12.5')	N/A	N/A

AFFIDAVIT OF MAILING

State of New York)
) ss:
County of Westchester)

Gabrielle Ferrezza being duly sworn, deposes and says that she is over twenty-one years of age and works at 94 White Plains Road, Tarrytown, in the State of New York; that she is a paralegal at Snyder & Snyder, LLP, the attorney for New York SMSA Limited Partnership d/b/a Verizon Wireless in connection with its request for a renewal of its special permit with respect to the existing communications tower at 377 Smith Ridge Road, South Salem, NY. On November 30, 2020, she served notice, a copy of which is attached hereto, upon the following named persons at the address set forth for each person, as shown on the attached list, by depositing said certified notices at the United States Post Office in Tarrytown, New York, a true copy of the said notices, addressed to each one of the persons named.

Gabrielle Ferrezza

Sworn to and subscribed before me
this 30th day of November 2020

NOTARY PUBLIC

ANGELA M. POCCIA
NOTARY PUBLIC
STATE OF NEW YORK
Qualified in Putnam County
02PO6404795
MY COMMISSION EXPIRES March 2, 2024

Z:\SSDATA\WPDATA\SS4\WP\NEWBANM\JoeRollins\LTEZoningAnalyses\SouthSalem(Lewisboro)4\SpecialPermitRenewal2020\Notices\Affidavit of Mailing.docx

LEWISBORO SUPPLY CO INC
RINGS END OF LEWISBORO
382 SMITH RIDGE RD
SOUTH SALEM, NY 10590

FOUR HUNDRED ONE
STORAGE CORP.
PO BOX 751
SOUTH SALEM, NY 10590

FIVE NEPPERHAN AVENUE
LLC
3102 RTE 9
COLD SPRING, NY 10516

VISTA FIRE DISTRICT
377 SMITH RIDGE RD
SOUTH SALEM, NY 10590

GRANT, JAMES F.JR. &
ELIZABETH
389 SMITH RIDGE RD
SOUTH SALEM, NY 10590

SAMUELSON, RANDY S.
5 TOMMY'S LANE
SOUTH SALEM, NY 10590

387 SMITH RIDGE RD, LLC
387 SMITH RIDGE RD
SOUTH SALEM, NY 10590

HABERNY, JOSEPH A. &
JEANINE M.
371 SMITH RIDGE RD
SOUTH SALEM, NY 10590

SMITH RIDGE ASSOC.LLC
450 OAKRIDGE COMMONS
SOUTH SALEM, NY 10590

KENNA, MEGAN & BARBOSA,
AUSTIN
7 TOMMY'S LANE
SOUTH SALEM, NY 10590

E B TREES, INC.
391 SMITH RIDGE RD
SOUTH SALEM, NY 10590

TOWN OF LEWISBORO

NOTICE OF PUBLIC HEARING

NOTICE IS HEREBY GIVEN that the Planning Board of the Town of Lewisboro, Westchester County, New York will convene a Public Hearing on Tuesday, December 15, 2020 at 7:30 p.m., or soon thereafter, using the videoconferencing app Zoom, regarding the following:

Cal #3-09PB

Application for Special Use Permit renewal to Verizon Wireless at Vista Fire Dept., 377 Smith Ridge Road, South Salem, NY 10590, Sheet 50A, Block 9834, Lots 84, 88 & 94 (Vista Fire District, owner of record) for existing Verizon telecommunication equipment. The subject property consists of approx. 5.94 acres and is located in a One-Acre Residential (R-1A) Zoning District.

Due to public health and safety concerns related to the COVID-19 virus, the Planning Board will not be meeting in person. Per Governor Cuomo's Executive Order No. 202.1, this meeting will be held via Zoom and a transcript will be provided at a later date. The public will have the opportunity to review digital copies of materials and proposed site documents at https://www.lewisborogov.com/planningboard

Interested members of the public are encouraged to provide written comments prior to and during the virtual public hearing by emailing Ciorsdan Conran, Planning Board Administrator, at planning@lewisborogov.com Please check the meeting agenda posted on the Board's web page for additional instructions and updates.

The public may view or participate through the Zoom app at https://zoom.us/j/98541138858?pwd=Y1VidHA1dXJjaXBTR0RTdFJjcUlFdz09 by clicking "Join a Meeting," and entering Meeting ID: 985 4113 8858 Passcode: 515716. You may call in to the Zoom meeting at 1-929-205-6099 when prompted, enter Meeting ID: 985 4113 8858 Passcode: 515716.

Persons wishing to object to the application should file a notice of objection with the Planning Board together with a statement of the grounds of objection prior to the closing of the Public Hearing. All interested parties are encouraged to view the Public Hearing and all will be provided an opportunity to be heard.

PLANNING BOARD
TOWN OF LEWISBORO
By: Janet Andersen
Chair

Dated: November 30, 2020

The Town of Lewisboro is committed to equal access for all citizens. Anyone needing accommodations to view or participate in this meeting is encouraged to notify the Administrator to the Planning Board in advance.

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7 TOMMY'S LANE
SOUTH SALEM, NY 10590

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3102 RTE 9
COLD SPRING, NY 10516

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SAMUELSON, RANDY S.
5 TOMMY'S LANE
SOUTH SALEM, NY 10590

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SMITH RIDGE ASSOC.LLC
450 OAKRIDGE COMMONS
SOUTH SALEM, NY 10590

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VISTA FIRE DISTRICT
377 SMITH RIDGE RD
SOUTH SALEM, NY 10590

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LEWISBORO SUPPLY CO INC
RINGS END OF LEWISBORO
382 SMITH RIDGE RD
SOUTH SALEM, NY 10590

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Postmark Here

7099 3400 0005 4670 4660

HABERNY, JOSEPH A. &
JEANINE M.
371 SMITH RIDGE RD
SOUTH SALEM, NY 10590

PS Form 3800, July 1999 See Reverse for Instructions

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7099 3400 0005 4670 4691

E B TREES, INC.
391 SMITH RIDGE RD
SOUTH SALEM, NY 10590

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Postmark Here

7099 3400 0003 2207 7261

387 SMITH RIDGE RD, LLC
387 SMITH RIDGE RD
SOUTH SALEM, NY 10590

PS Form 3800, July 1999 See Reverse for Instructions

U.S. Postal Service
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(Domestic Mail Only; No Insurance Coverage Provided)

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Return Receipt Fee (Endorsement Required)
Restricted Delivery Fee (Endorsement Required)

Postmark Here

7099 3400 0003 2207 7292

FOUR HUNDRED ONE
STORAGE CORP.
PO BOX 751
SOUTH SALEM, NY 10590

PS Form 3800, July 1999 See Reverse for Instructions

AFFIDAVIT OF POSTING

State of New York)
) ss:
County of Westchester)

Gabrielle Ferrezza, being duly sworn, deposes and says that she is over twenty-one years of age and works at 94 White Plains Road, Tarrytown, in the State of New York; that she is a paralegal at Snyder & Snyder, LLP the attorney for New York SMSA Limited Partnership d/b/a Verizon Wireless in connection with its request for a renewal of its special permit with respect to the existing communications facility at 377 Smith Ridge Road, South Salem, NY. That on the 8th day of December, 2020, she posted notice at the property. A photograph of the sign has been attached hereto.

Gabrielle Ferrezza

Sworn to and subscribed before me
this 8th day of December 2020

NOTARY PUBLIC

ANGELA M. POCCIA
NOTARY PUBLIC
STATE OF NEW YORK
Qualified in Putnam County
02PO6404795
MY COMMISSION EXPIRES March 2, 2024

Z:\SSDATA\WPDATA\SS4\WP\NEWBANM\Joe Rollins\LTE Zoning Analyses\East Woods\Special Permit Renewal 2020\Notices\Affidavit Of Posting.Docx


NOTICE
This property is the subject of an application before the Lewisboro Planning Board.
A Public Hearing has been scheduled at which time all interested parties will be afforded an opportunity to be heard.
Please contact the Planning Board Secretary at
914-763-5592
or visit
www.lewisborogov.com
for additional information

Ciorsdan Conran

From: Joseph Neu <jneu@neugroup.com>
Sent: Thursday, December 10, 2020 6:55 AM
To: Ciorsdan Conran
Cc: Tony Goncalves; Brian Porco; jim.moreo@cornerstone.it; Robert Cummings
Subject: Re: Lewisboro, NY Wireless infrastructure back-up power language

Clarifying language on UPS: UPS, should be of the "on-line/double conversion" type, meaning that the load is always on the batteries which means there is literally zero down time between switches from line to gen, back to line.

Joseph Neu
Founder and CEO
NeuGroup
Connect. Exchange. Distill.
m +1 917 744 8061
jneu@neugroup.com

On Dec 9, 2020, at 6:04 PM, Joseph Neu <jneu@neugroup.com> wrote:

Ciorsdan,
Below is what the consultant came back with concerning backup power along with added notations from AAB on making the battery in line as a UPS source to support the tower power until the generator kicks in.

We would also like Planning to ask that Town or other emergency services communications equipment be allowed to be installed at no charge on the installation/tower as a condition of new installations and renewal if not already granted under the Agreement. [This is patterned on the recent effort by Vista Fire to do this, Brian Porco copied].
++

The application is granted upon the further condition that the applicant's wireless communications facility have:

a) system alarms to alert applicant to a conventional power source failure;
b) an battery backup uninterruptible power supply capable of operating the facility upon initial power failure for up to 30 minutes; and
c) a back-up power generator to be demonstrated to the Town to provide power within 30 minutes, be of a sufficient capacity in watts/amperage to power the applicant's wireless communications facility and Town or other emergency services communications equipment provided for under the Agreement with sufficient fuel to operate for more than 72 continuous hours without refueling.

The fuel source shall be LNG (liquified natural gas a/k/a propane) and shall be contained in an above ground storage tank with the fuel capacity necessary to provide the foregoing operational parameters for continued network operations while awaiting refueling in a reasonable period of time, along with remote LNG storage tank monitoring to provide for a low fuel alarm.

Said generator shall be housed in a compartment containing sound-dampening materials to ensure that it does not generate more than 90 db when continuously operating as measured from the closest property line of the subject parcel.

From: Joseph Neu
Sent: Wednesday, December 9, 2020 12:24 PM
To: Brian Porco <brianporco1@gmail.com>
Cc: Tony Goncalves <tonyjg63@gmail.com>; main-antenna-advisory-board-town-of-lewisboro@mail.asana.com
Subject: RE: Lewisboro, NY Wireless infrastructure back-up power language

Here is what CityScape has come back with.
Any thoughts before sending it on to planning?

From: Susan Rabold <susan@cityscapegov.com>
Sent: Wednesday, December 9, 2020 11:56 AM
To: Joseph Neu <jneu@neugroup.com>
Cc: Tony Goncalves <tonyjg63@gmail.com>
Subject: Re: Lewisboro, NY Wireless infrastructure back-up power language

Greetings,

Please find below draft text for your considerations. You will need to harmonize with your terminology and add relevant information specific to the application but hopefully this will be a good start.

The application is granted upon the further condition that the applicant's wireless communications facility have:

a) system alarms to alert applicant to a conventional power source failure;
b) a battery backup power supply capable of operating the facility upon initial power failure for up to 30 minutes; and
c) a back-up power generator to be demonstrated to the Town be of a sufficient capacity in watts/amperage to power the applicant's wireless communications facility with sufficient fuel to operate for more than 72 continuous hours without refueling.

The fuel source shall be LNG (liquified natural gas a/k/a propane) and shall be contained in an above ground storage tank with the fuel capacity necessary to provide the foregoing operational parameters for continued network operations while awaiting refueling in a reasonable period of time, along with remote LNG storage tank monitoring to provide for a low fuel alarm.

Said generator shall be housed in a compartment containing sound-dampening materials to ensure that it does not generate more than 90 db when continuously operating as measured from the closest property line of the subject parcel.

Please let me know of any questions.

Best regards, Susan

Susan Rabold | Project Manager
Greensboro, NC
Direct Line: 336-210-0843

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

WRITER'S E-MAIL ADDRESS

msheridan@snyderlaw.net

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)

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

REPLY TO:

Tarrytown office

November 17, 2020

Hon. Chair Janet Andersen
and Members of the Planning Board
Town of Lewisboro
79 Bouton Road
South Salem, NY 10590

RE: Special Use Permit Approval and Renewal (Cal. #6-12 P.B.)
New York SMSA Limited Partnership d/b/a Verizon Wireless'
Existing Wireless Telecommunications Facility on the Tower
Located at NYS Route 35 and NYS Route 123, New York ("Property")

Dear Honorable Chair Andersen
And Members of the Planning Board:

We are the attorneys for New York SMSA Limited Partnership d/b/a Verizon Wireless ("Verizon Wireless") in connection with its application to renew the special use permit ("Renewal") for its existing public utility wireless telecommunications facility ("Facility") at the Property. In connection with the foregoing, we are in receipt of a memo dated November 12, 2020, from the Planning Board's consultant, Kellard Sessions ("Consultant Memo"), which contain comments with regard to the requested Renewal.

In response to the comments contained in the Consultant's Memo, kindly note the following:

Comment
1. On Page 1 of 3 of the Short Environmental Assessment Form (EAF), the applicant shall respond to Question 3 numerically. "NA" is not a sufficient response.

Response
Attached hereto as Exhibit 1 is a revised Short EAF, which now includes a numerical response to Question 3.

Comment:
2.On behalf of the Planning Board, the applicant shall submit Part 2 of the Short EAF.

Response:
Attached hereto as part of Exhibit 1 is Part 2 of the Short EAF.

Comment:
3. We note that the submitted Structural Report prepared by Structural Consulting Services, P.C., does not certify the structural integrity of the tower and the equipment attached to it. The report makes reference to a previous report prepared by another engineering firm and states that based on a site visit "...the existing antenna loading observed on the tower appeared to match the loading use in the most recent structural analysis report on the tower...". It is recommended that a more definitive certification be provided and that any referenced reports be submitted.

Response:
Attached hereto as Exhibit 2 is a revised structural certification, prepared by Structural Consulting Services, P.C., with a revised date of November 13, 2020, that has been updated to note that "[t]he existing antenna loading observed on the tower is consistent with the antenna loading in the most recent structural analysis report on the tower." Such certification now also includes a copy of the most recent structural analysis prepared for American Tower Corporation dated June 13, 2019, as an attachment.

Comment
4. Consistent with past actions of the Board on similar antenna renewal applications, provided the above information in submitted and is satisfactory, it is recommended that the Special Use Permit Renewal for Verizon Wireless be approved indefinitely.

Response:
This comment requires no response.

Based on the foregoing, it is respectfully requested that this Honorable Board approve of the requested Renewal. If you have any questions, please do not hesitate to contact me or Leslie Snyder at (914) 333-0700.

Respectfully submitted,
Snyder & Snyder, LLP

By: _____
Michael P. Sheridan

MS: sm
Enclosures
cc: Verizon Wireless
Z:\SSDATA\WPDATA\SS4\WP\NEWBANM\Joe Rollins\LTE Zoning Analyses\South Salem (Lewisboro) 4\Special Permit Renewal 2020\PB Response Letter 11.17.2020.ms.doc

EXHIBIT 1
Revised EAF with Part 2

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:

Verizon Wireless Special Permit Renewal for Existing Public Utility Wireless Telecommunications Facility

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

NYS Route 35 (Leon Levy Preserve), Lewisboro, NY

Brief Description of Proposed Action:

The proposed action consists of the renewal of the special permit (Cal. #6-12 PB) for Verizon Wireless' existing public utility wireless telecommunications facility ("Facility") at the subject property.

Name of Applicant or Sponsor:	Telephone: 914-333-0700
New York SMSA Limited Partnership d/b/a Verizon Wireless	E-Mail: msheridan@snyderlaw.net

Address:

c/o Snyder & Snyder, LLP, 94 White Plains Road

City/PO:	State:	Zip Code:
Tarrytown	NY	10591

	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 government Agency? If Yes, list agency(s) name and permit or approval:	☑	☐

3. a. Total acreage of the site of the proposed action? ~0.08 acres
   b. Total acreage to be physically disturbed? 0 acres
   c. Total acreage (project site and any contiguous properties) owned or controlled by the applicant or project sponsor? ~0.08 acres

4. Check all land uses that occur on, are adjoining or near the proposed action:

5. ☐ Urban ☐ Rural (non-agriculture) ☐ Industrial ☐ Commercial ☑ Residential (suburban)
   ☐ Forest ☐ Agriculture ☐ Aquatic ☑ Other(Specify): Wireless Telecommunications Facility
   ☐ 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?	☐	☑	☐

	NO	YES
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?	☑	☐
b. Are public transportation services available at or near the site of the proposed action?	☑	☐
c. Are any pedestrian accommodations or bicycle routes available on or near the site of the proposed action?	☑	☐

	NO	YES
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:		
The Facility meets the state energy code requirements.	☐	☑

	NO	YES
10. Will the proposed action connect to an existing public/private water supply?		
If No, describe method for providing potable water:		
The Facility is unmanned therefore potable water is not required.	☑	☐

	NO	YES
11. Will the proposed action connect to existing wastewater utilities?		
If No, describe method for providing wastewater treatment:		
The Facility is unmanned therefore wastewater treatment is not required.	☑	☐

	NO	YES
12. a. Does the project site contain, or is it substantially contiguous to, a building, archaeological site, or district which is listed on the National or State Register of Historic Places, or that has been determined by the Commissioner of the NYS Office of Parks, Recreation and Historic Preservation to be eligible for listing on the State Register of Historic Places?	☑	☐
b. Is the project site, or any portion of it, located in or adjacent to an area designated as sensitive for archaeological sites on the NY State Historic Preservation Office (SHPO) archaeological site inventory?	☐	☑ *

	NO	YES
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?	☐	☑ *
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: _____		

* N/A to renewal of special permit for existing Facility.

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

	NO	YES
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?	☑	☐
16. Is the project site located in the 100-year flood plan?	☑	☐
17. Will the proposed action create storm water discharge, either from point or non-point sources?	☑	☐
If Yes,		
a. Will storm water discharges flow to adjacent properties?	☐	☐
b. Will storm water discharges be directed to established conveyance systems (runoff and storm drains)?	☐	☐
If Yes, briefly describe:		
18. Does the proposed action include construction or other activities that would result in the impoundment of water or other liquids (e.g., retention pond, waste lagoon, dam)?	☑	☐
If Yes, explain the purpose and size of the impoundment:		
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 CERTIFY THAT THE INFORMATION PROVIDED ABOVE IS TRUE AND ACCURATE TO THE BEST OF MY KNOWLEDGE

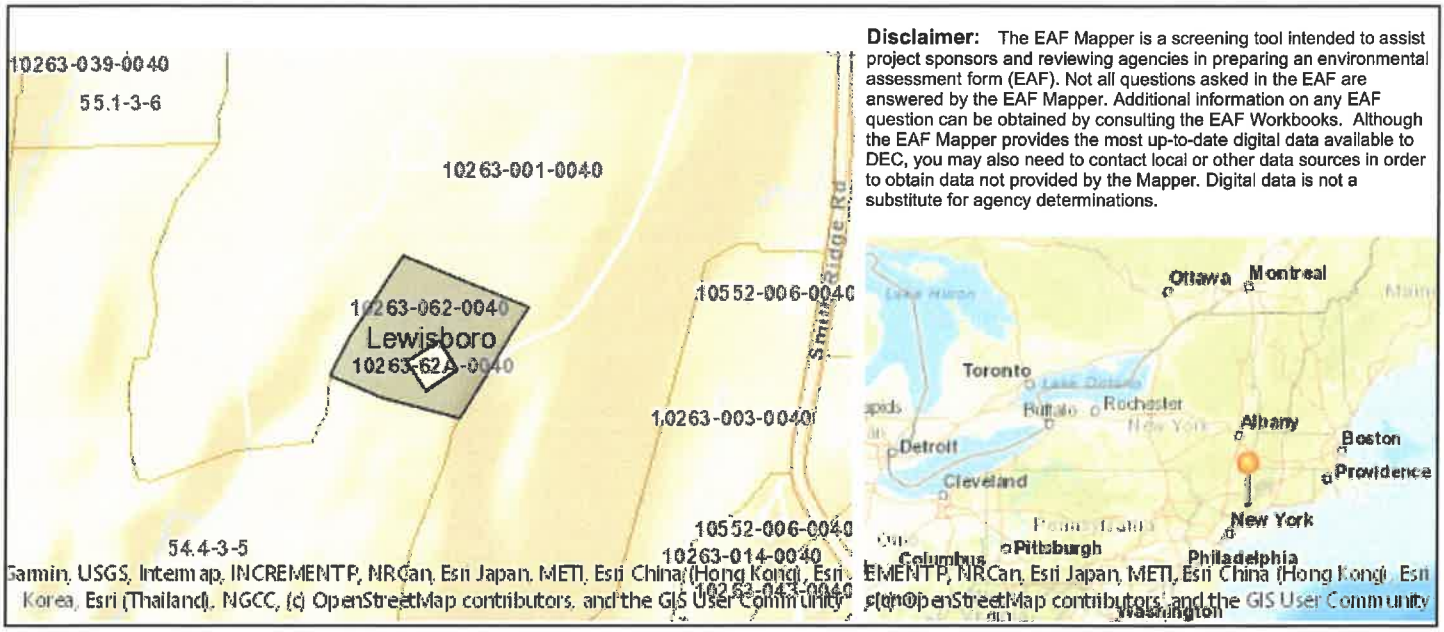
Applicant/sponsor/name: New York SMSA Limited Partnership d/b/a Verizon Wireless Date: 11/17/20

Signature: Title: Princ. Engineer - Network Real Estate

PRINT FORM

EAF Mapper Summary Report

Friday, July 17, 2020 11:40 AM



Disclaimer: The EAF Mapper is a screening tool intended to assist project sponsors and reviewing agencies in preparing an environmental assessment form (EAF). Not all questions asked in the EAF are answered by the EAF Mapper. Additional information on any EAF question can be obtained by consulting the EAF Workbooks. Although the EAF Mapper provides the most up-to-date digital data available to DEC, you may also need to contact local or other data sources in order to obtain data not provided by the Mapper. Digital data is not a substitute for agency determinations.

Part 1 / Question 7 [Critical Environmental Area]	No
Part 1 / Question 12a [National or State Register of Historic Places or State Eligible Sites]	No
Part 1 / Question 12b [Archeological Sites]	Yes
Part 1 / Question 13a [Wetlands or Other Regulated Waterbodies]	Yes - Digital mapping information on local and federal wetlands and waterbodies is known to be incomplete. Refer to EAF Workbook.
Part 1 / Question 15 [Threatened or Endangered Animal]	No
Part 1 / Question 16 [100 Year Flood Plain]	No
Part 1 / Question 20 [Remediation Site]	No

Agency Use Only [If applicable]

Project:	
Date:	

Short Environmental Assessment Form
Part 2 - Impact Assessment

Part 2 is to be completed by the Lead Agency.
Answer all of the following questions in Part 2 using the information contained in Part 1 and other materials submitted by the project sponsor or otherwise available to the reviewer. When answering the questions the reviewer should be guided by the concept "Have my responses been reasonable considering the scale and context of the proposed action?"

	No, or small impact may occur	Moderate to large impact may occur
1. Will the proposed action create a material conflict with an adopted land use plan or zoning regulations?	☑	☐
2. Will the proposed action result in a change in the use or intensity of use of land?	☑	☐
3. Will the proposed action impair the character or quality of the existing community?	☑	☐
4. Will the proposed action have an impact on the environmental characteristics that caused the establishment of a Critical Environmental Area (CEA)?	☑	☐
5. Will the proposed action result in an adverse change in the existing level of traffic or affect existing infrastructure for mass transit, biking or walkway?	☑	☐
6. Will the proposed action cause an increase in the use of energy and it fails to incorporate reasonably available energy conservation or renewable energy opportunities?	☑	☐
7. Will the proposed action impact existing: a. public / private water supplies?	☑	☐
b. public / private wastewater treatment utilities?	☑	☐
8. Will the proposed action impair the character or quality of important historic, archaeological, architectural or aesthetic resources?	☑	☐
9. Will the proposed action result in an adverse change to natural resources (e.g., wetlands, waterbodies, groundwater, air quality, flora and fauna)?	☑	☐
10. Will the proposed action result in an increase in the potential for erosion, flooding or drainage problems?	☑	☐
11. Will the proposed action create a hazard to environmental resources or human health?	☑	☐

PRINT FORM

Agency Use Only [If applicable]

Project:	
Date:	

Short Environmental Assessment Form
Part 3 Determination of Significance

For every question in Part 2 that was answered "moderate to large impact may occur", or if there is a need to explain why a particular element of the proposed action may or will not result in a significant adverse environmental impact, please complete Part 3. Part 3 should, in sufficient detail, identify the impact, including any measures or design elements that have been included by the project sponsor to avoid or reduce impacts. Part 3 should also explain how the lead agency determined that the impact may or will not be significant. Each potential impact should be assessed considering its setting, probability of occurring, duration, irreversibility, geographic scope and magnitude. Also consider the potential for short-term, long-term and cumulative impacts.

☐ Check this box if you have determined, based on the information and analysis above, and any supporting documentation, that the proposed action may result in one or more potentially large or significant adverse impacts and an environmental impact statement is required.

☑ Check this box if you have determined, based on the information and analysis above, and any supporting documentation, that the proposed action will not result in any significant adverse environmental impacts.

Name of Lead Agency	Date
Print or Type Name of Responsible Officer in Lead Agency	Title of Responsible Officer
Signature of Responsible Officer in Lead Agency	Signature of Preparer (if different from Responsible Officer)

PRINT FORM

EXHIBIT 2
Revised Structural Certification

S C S **STRUCTURAL CONSULTING SERVICES, P.C.**

Revised November 13, 2020
October 21, 2020

Honorable Chair Janet Andersen
And Members of the Planning Board
Town of Lewisboro
79 Bouton Road
South Salem, NY 10590

RE: New York SMSA Limited Partnership d/b/a Verizon Wireless
Site: South Salem
N.Y.S. Routed 35, South Salem, NY 10590
Block 10263; Lots 1 & 62

Honorable Chair Janet Andersen and Members of the Planning Board:

On Thursday, October 15, 2020, our office visited the above referenced site to review the existing Telecommunications Facility by New York SMSA Limited Partnership d/b/a Verizon Wireless. The existing facility consists of a 125-foot self-supported lattice tower with antennas mounted thereon and an equipment room within an existing equipment building located at the base thereof together with related transmission lines, conduits, utility connections, etc. The existing antenna loading observed on the tower is consistent with the antenna loading used in the most recent structural analysis report on the tower prepared for American Tower Corporation by Tower Engineering Professionals, Inc, Raleigh, NC 27603, Eng. Number 12936321_C3_01, dated June 13, 2019 (copy attached), which deemed the existing tower and its foundation to have sufficient capacity to support the antenna loading. At the time of our visit, the existing tower and foundation appeared to be in good condition with no visually apparent signs of defects, damage or deterioration. Attached are some photographs of the tower taken during our site visit for your reference.

Based on our review of the structural analysis report on the tower and our review of existing conditions, we have concluded that the existing tower and facility meet the requirements of the 2020 Building Code of New York State and that the existing structural integrity of the tower has been maintained.

Should you have further questions, please do not hesitate to contact our office.

Sincerely,

Structural Consulting Services, P.C.

James H. Fahey, P.E., S.E.
Principal

cc: Verizon Wireless
Snyder & Snyder

JHF/kap

Attachments

67 Federal Road, Brookfield, CT 06804
Tel: 203.740.7578 Fax: 203.775.5670


10 15 2020


10.15.2020

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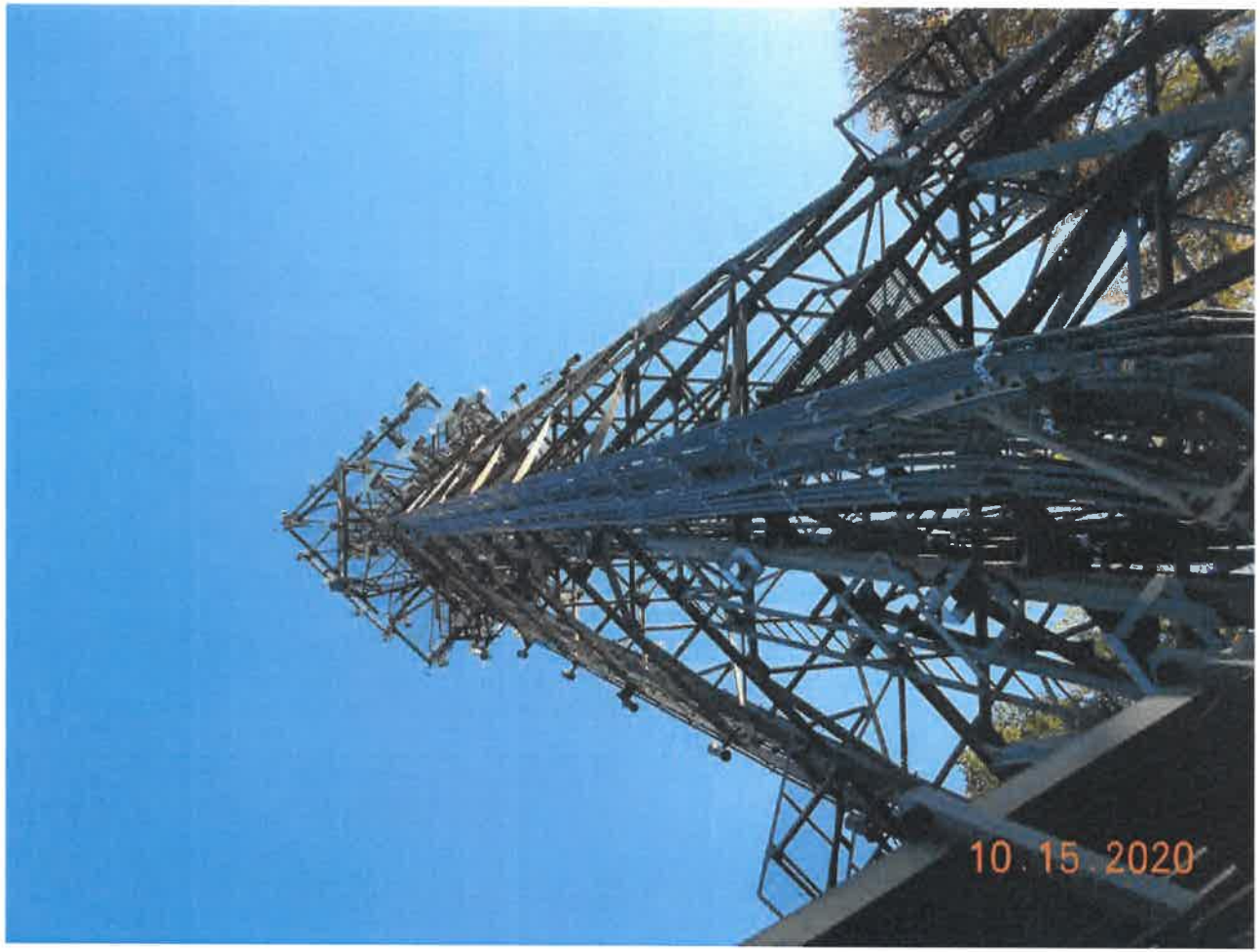

10 15 2020


GENERAC
GENERAC
10 15 2020


10/15/2020

AMERICAN TOWER®
CORPORATION

This report was prepared for American Tower Corporation by

TOWER
ENGINEERING
PROFESSIONALS

Structural Analysis Report

Structure	:	**125 ft Self Supported Tower**
ATC Site Name	:	**South Salem NY, NY**
ATC Site Number	:	**88166**
Engineering Number	:	**12936321_C3_01**
Proposed Carrier	:	**Verizon Wireless**
Carrier Site Name	:	**South Salem**
Carrier Site Number	:	**144861**
Site Location	:	**Route 35** **South Salem, NY 10590-1923** **41.258500,-73.534700**
County	:	**Westchester**
Date	:	**June 13, 2019**
Max Usage	:	**100%**
Result	:	**Pass**

Prepared By:
Austin Wilson
TEP

Austin Wilson

Reviewed By:

STATE OF NEW YORK
ANDREW T. HALDANE
086259
LICENSED PROFESSIONAL ENGINEER
6/13/2019

Table of Contents

Introduction

The purpose of this report is to summarize results of a structural analysis performed on the 125 ft self supported tower to reflect the change in loading by Verizon Wireless.

Supporting Documents

Tower Drawings	HTS Mapping Project #HTS101507 CSEI Analysis, ATC Eng. #26240121, dated August 21, 2006
Foundation Drawing	Foundation Mapping by TEP Job #071970, dated October 19, 2007 Rose, Chulkoff And Rose Structural Engineers Job # C67227, dated September 21, 1967
Geotechnical Report	GEOServices Project #21-07254, dated October 29, 2007

Analysis

The tower was analyzed using American Tower Corporation's tower analysis software. This program considers an elastic three-dimensional model and second-order effects per ANSI/TIA-222.

Basic Wind Speed:	90 mph (3-Second Gust, V_{ASD}) / 116 mph (3-Second Gust, V_{ULT})
Basic Wind Speed w/ Ice:	50 mph (3-Second Gust) w/ 3/4" radial ice concurrent
Code:	ANSI/TIA-222-G / 2015 IBC
Structure Class:	II
Exposure Category:	B
Topographic Category:	3
Crest Height:	124 ft
Spectral Response:	Ss = 0.23, S_1 = 0.07
Site Class:	D - Stiff Soil

Conclusion

Based on the analysis results, the structure meets the requirements per the applicable codes listed above. The tower and foundation can support the equipment as described in this report.

If you have any questions or require additional information, please contact American Tower via email at Engineering@americantower.com. Please include the American Tower site name, site number, and engineering number in the subject line for any questions.

Existing and Reserved Equipment

Elev.[1] (ft)	Qty	Antenna	Mount Type	Lines	Carrier
132.0	1	12' Omni	Platform with Handrail Sector Frames	-	OTHER
128.0	3	Raycap RxxDC-3315-PF-48		(12) 1 5/8" Coax (3) 1 5/8" Hybriflex	VERIZON WIRELESS
	3	Commscope SBNHH-1D65B			
125.0	12	Decibel DB844H90E-XY		(12) 1 5/8" Coax	SPRINT NEXTEL
122.0	3	Andrew ETW200VS12UB		(18) 1 5/8" Coax (3) 1 5/8" Hybriflex	T-MOBILE
	3	Ericsson KRY 112 489/2			
	3	Ericsson Radio 4449 B12,B71			
	3	RFS APX16DWV-16DWVS-E-A20			
	3	RFS APXVAARR24_43-U-NA20			
112.5	-	-	Catwalk	-	-
111.0	3	RFS APXVTM14-ALU-I20	Sector Frames	(3) 1 1/4" Hybriflex Cable (1) 1.54" (39.2mm) Hybrid	SPRINT NEXTEL
	3	Alcatel-Lucent TD-RRH8x20-25 w/ Solar Shield			
	3	Alcatel-Lucent 800 MHz RRH w/ Notch Filter			
	3	Alcatel-Lucent 1900MHz RRH (65MHz)			
	3	RFS ACU-A20-N			
	3	RFS APXVSPP18-C			
104.0	3	Nokia AirScale RRH 4T4R B5 160W AHCA	Sector Frames	(2) 0.39" (10mm) Fiber Trunk (4) 0.78" (19.7mm) 8 AWG 6 (2) 2" conduit (12) 7/8" Coax	AT&T MOBILITY
	1	Raycap DC6-48-60-18-8F ("Squid")			
	3	Alcatel-Lucent B25 RRH4x30			
	3	Nokia Airscale Dual RRH 4T4R B12/B14 320W AHLBA			
	3	Alcatel-Lucent 9442 RRH2x40-AWS			
	3	Alcatel-Lucent RRH4x25-WCS-4R			
	1	Raycap DC6-48-60-18-8F (23.5" Height)			
	9	Commscope NNHH-65C-R4			
85.0	1	5" x 3" x 2" Cavity Filter	Side Arm	(1) 1/2" Coax	SIGFOX S.A.
	1	Low Noise Amplifier			
	1	Procom CXL 900-3LW			
76.0	-	-	Rest Platform	-	-
75.0	1	GPS	Stand-Off	(1) 1/2" Coax	SPRINT NEXTEL
53.0	4	GPS	Stand-Off	(4) 1/2" Coax	VERIZON WIRELESS
25.0	-	-	Rest Platform	-	-

Equipment to be Removed

Elev.[1] (ft)	Qty	Antenna	Mount Type	Lines	Carrier
128.0	12	Alcatel-Lucent RRH2x60	-	-	VERIZON WIRELESS
	3	Commscope SBNHH-1D65B			
121.0	6	RFS FD9R6004/1C-3L(2.6 lb)	-	-	

Proposed Equipment

Elev.[1] (ft)	Qty	Antenna	Mount Type	Lines	Carrier
128.0	3	Nokia AHCA AirScale RRH 4T4R B5 160W	Platform with Handrail Sector Frames	-	VERIZON WIRELESS
	3	Alcatel-Lucent B13 RRH4x30-4R			
	3	Nokia AHFIC AirScale Dual RRH 4T4R B2/66a 320W			
	6	Commscope JAHH-65B-R3B			

[1] Contracted elevations are shown for appurtenances within contracted installation tolerances. Appurtenances outside of contract limits are shown at installed elevations.

Structure Usages

Structural Component	Controlling Usage	Pass/Fail
Legs	61%	Pass
Diagonals	100%	Pass
Horizontals	45%	Pass
Anchor Bolts	36%	Pass

Foundations

Reaction Component	Analysis Reactions	% of Usage
Uplift (Kips)	145.8	58%
Axial (Kips)	180.5	11%

The structure base reactions resulting from this analysis were found to be acceptable through analysis based on geotechnical and foundation information, therefore no modification or reinforcement of the foundation will be required.

Deflection, Twist and Sway*

Antenna Elevation (ft)	Antenna	Carrier	Deflection (ft)	Twist (°)	Sway (Rotation) (°)
128.0	Alcatel-Lucent B13 RRH4x30-4R	VERIZON WIRELESS	0.071	0.005	0.051
	Commscope JAHH-65B-R3B				
	Nokia AHCA AirScale RRH 4T4R B5 160W				
	Nokia AHFIC AirScale Dual RRH 4T4R B2/66a 320W				

***Deflection, Twist and Sway was evaluated considering a design wind speed of 60 mph (3-Second Gust) per ANSI/TIA-222-G**

Standard Conditions

All engineering services performed by ATC Tower Services, Inc. are prepared on the basis that the information used is current and correct. This information may consist of, but is not limited to the following:

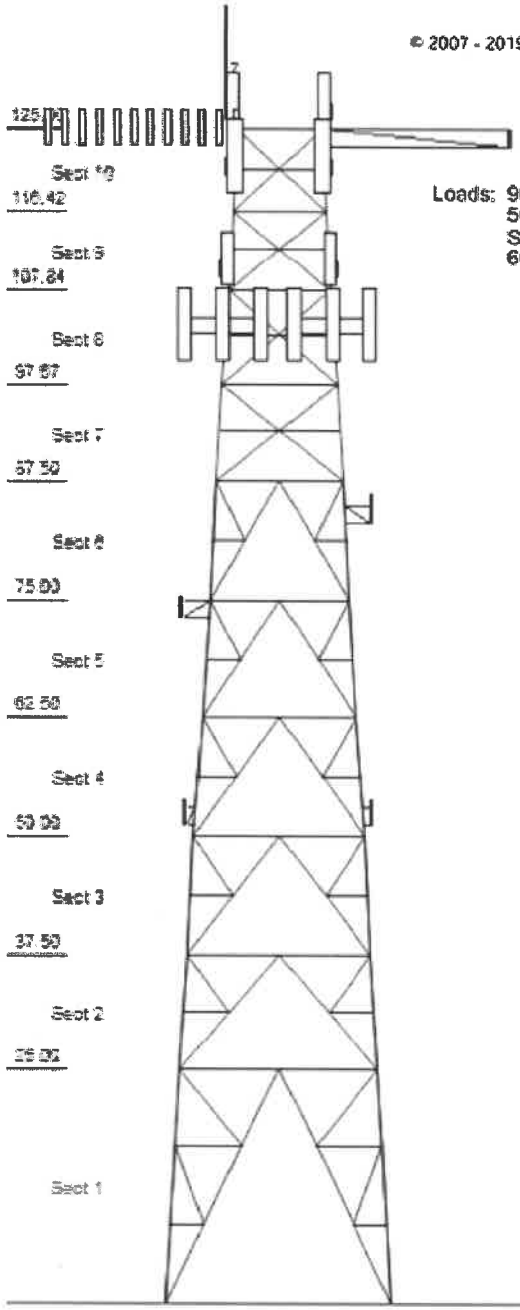
- Information supplied by the client regarding antenna, mounts and feed line loading
- Information from drawings, design and analysis documents, and field notes in the possession of ATC Tower Services, Inc.

It is the responsibility of the client to ensure that the information provided to ATC Tower Services, Inc. and used in the performance of our engineering services is correct and complete.

All assets of American Tower Corporation, its affiliates and subsidiaries (collectively "American Tower") are inspected at regular intervals. Based upon these inspections and in the absence of information to the contrary, American Tower assumes that all structures were constructed in accordance with the drawings and specifications.

Unless explicitly agreed by both the client and ATC Tower Services, Inc., all services will be performed in accordance with the current revision of ANSI/TIA-222.

All services are performed, results obtained, and recommendations made in accordance with generally accepted engineering principles and practices. ATC Tower Services, Inc. is not responsible for the conclusions, opinions and recommendations made by others based on the information supplied herein.



Loads: 90 mph no ice
50 mph w/ 3/4" radial ice
Site Class: D Ss: 0.23 S1: 0.07
60 mph Serviceability

Job Information

Tower : 88166	Location : SOUTH SALEM	Base Width : 24.25 ft
Client : VERIZON WIRELESS		Top Width : 9.00 ft
Code : ANSI/TIA-222-G		Tower Ht : 125.00 ft
		Shape : Square

Sections Properties

Section	Leg Members		Diagonal Members	Horizontal Members
1	SAE 33 ksi	8X8X0.625	DAS 33 ksi 3.5X3X0.25	DAE 33 ksi 2.5X2.5X0.25
2 - 3	SAE 33 ksi	6X6X0.75	DAE 33 ksi 2.5X2.5X0.25	DAE 33 ksi 2.5X2.5X0.25
4 - 5	SAE 33 ksi	6X6X0.5625	DAL 33 ksi 2.5X2X0.25	DAE 33 ksi 2.5X2.5X0.25
6	SAE 33 ksi	6X6X0.4375	DAL 33 ksi 2.5X2X0.25	DAE 33 ksi 2.5X2.5X0.25
7	SAE 33 ksi	5X5X0.4375	SAE 33 ksi 3.5X3.5X0.25	SAU 33 ksi 3X2.5X0.25
8	SAE 33 ksi	5X5X0.4375	SAE 33 ksi 3.5X3.5X0.25	DAL 33 ksi 3X2.5X0.25
9	SAE 33 ksi	5X5X0.3125	SAE 33 ksi 3X3X0.25	SAU 33 ksi 3X2.5X0.25
10	SAE 33 ksi	5X5X0.3125	SAE 33 ksi 3X3X0.25	CHN 36 ksi C8 x 11.5

Discrete Appurtenance

Elev (ft)	Type	Qty	Description
132.00	Whip	1	Generic 12' Omni
128.00	Panel	6	Commscope JAHH-65B-R3B
128.00	Panel	3	Commscope SBNHH-1D65B
128.00		3	Raycap RxxDC-3315-PF-48
128.00		3	Nokia AHFIC AirScale Dual RRH
128.00		3	Alcatel-Lucent B13 RRH4x30-4R
128.00		3	Nokia AHCA AirScale RRH 4T4R B
125.00	Panel	12	Decibel DB844H90E-XY
125.00	Straight Arm	6	Pole Mount
125.00	Platform	1	Heavy Platform with Handrails
125.00	Straight Arm	1	20" Pipe
125.00	Mounting Frame	3	Round Sector Frame
122.00		3	Ericsson Radio 4449 B12,B71
122.00		3	Ericsson KRY 112 489/2
122.00		3	Andrew ETW200VS12UB
122.00	Panel	3	RFS APXVAARR24_43-U-NA20
122.00	Panel	3	RFS APX16DWV-16DWVS-E-A20
113.00	Mounting Frame	3	Heavy Sector Frame
112.50	Platform	1	Catwalk
111.00	Panel	3	RFS APXVSPP18-C
111.00	Panel	3	RFS APXVTM14-ALU-I20
111.00		3	Alcatel-Lucent TD-RRH8x20-25 w
111.00		3	Alcatel-Lucent 800 MHz RRH w/
111.00		3	Alcatel-Lucent 1900MHz RRH (65
111.00		3	RFS ACU-A20-N
104.00	Mounting Frame	3	Sector Frame Sabre 12' EHD V-B
104.00	Panel	9	Commscope NNHH-65C-R4
104.00		3	Alcatel-Lucent RRH4x25-WCS-4R
104.00		3	Alcatel-Lucent 9442 RRH2x40-AW
104.00		3	Nokia Airscale Dual RRH 4T4R B
104.00		3	Alcatel-Lucent B25 RRH4x30
104.00		1	Raycap DC6-48-60-18-8F ("Squid
104.00		3	Nokia AirScale RRH 4T4R B5 160
104.00		1	Raycap DC6-48-60-18-8F (23.5"
85.00	Straight Arm	1	Generic Flat Side Arm
85.00		1	Generic Low Noise Amplifier
85.00		1	Generic 5" x 3" x 2" Cavity Fi
85.00	Whip	1	Procom CXL 900-3LW
76.00	Platform	1	Rest Platform
75.00	Straight Arm	1	Stand-Off
75.00	Whip	1	Generic GPS
56.00	Straight Arm	1	Stand-Off
53.00	Whip	4	Generic GPS
25.00	Platform	1	Rest Platform

Job Information

Tower : 88166	Location : SOUTH SALEM	Base Width : 24.25 ft
Client : VERIZON WIRELESS		Top Width : 9.00 ft
Code : ANSI/TIA-222-G		Tower Ht : 125.00 ft
		Shape : Square

Linear Appurtenance

Elev (ft) From	To	Qty	Description
0.00	128.00	3	1 5/8" Hybriflex
0.00	128.00	12	1 5/8" Coax
0.00	125.00	2	Waveguide Ladder
0.00	125.00	1	Waveguide Ladder
0.00	125.00	1	Climbing Ladder
0.00	125.00	12	1 5/8" Coax
0.00	122.00	3	1 5/8" Hybriflex
0.00	122.00	18	1 5/8" Coax
0.00	111.00	1	1.54" (39.2mm) Hybri
0.00	111.00	3	1 1/4" Hybriflex Cab
0.00	104.00	12	7/8" Coax
0.00	104.00	1	2" conduit
0.00	104.00	1	2" conduit
0.00	104.00	4	0.78" (19.7mm) 8 AWG
0.00	104.00	2	0.39" (10mm) Fiber T
0.00	85.00	1	1/2" Coax
0.00	75.00	1	1/2" Coax
0.00	53.00	4	1/2" Coax

Global Base Foundation Design Loads

Load Case	Moment (k-ft)	Vertical (kip)	Horizontal (kip)
DL + WL	5,513.58	78.76	73.70
DL + WL + IL	1,860.40	210.43	25.50

Individual Base Foundation Design Loads

Vertical (kip)	Uplift (kip)	Horizontal (kip)
180.47	145.61	27.14

Site Number:	88166	**Code:**	ANSI/TIA-222-G	
Site Name:	SOUTH SALEM NY, NY	**Engineering Number:**	12936321_C3_01	6/13/2019 1:24:25 PM
Customer:	VERIZON WIRELESS			

Analysis Parameters

Location:	Westchester County, NY	**Height (ft):**	125
Code:	ANSI/TIA-222-G	**Base Elevation (ft):**	0.00
Shape:	Square	**Bottom Face Width (ft):**	24.25
Tower Manufacturer:	AT&T TAG	**Top Face Width (ft):**	9.00
Tower Type:	Self Support		
Kd:			
Ke:			

Ice & Wind Parameters

Structure Class:	II	**Design Windspeed Without Ice:**	90 mph
Exposure Category:	B	**Design Windspeed With Ice:**	50 mph
Topographic Category:	3	**Operational Windspeed:**	60 mph
Crest Height:	124 ft	**Design Ice Thickness:**	0.75 in

Seismic Parameters

Analysis Method:	Equivalent Modal Analysis & Equivalent Lateral Force Methods				
Site Class:	D - Stiff Soil				
Period Based on Rayleigh Method (sec):	0.49				
T_L (sec):	6	**p:**	1.3	**C_s:**	0.077
S_s:	0.235	**S_1:**	0.070	**C_s, Max:**	0.077
F_a:	1.600	**F_v:**	2.400	**C_s, Min:**	0.030
S_{ds}:	0.251	**S_{d1}:**	0.112		

Load Cases

1.2D + 1.6W Normal	90 mph Normal with No Ice
1.2D + 1.6W 45 deg	90 mph 45 degree with No Ice
1.2D + 1.6W 90 deg	90 mph 90 degree with No Ice
1.2D + 1.6W 135 deg	90 mph 135 degree with No Ice
1.2D + 1.6W 180 deg	90 mph 180 degree with No Ice
1.2D + 1.6W 225 deg	90 mph 225 degree with No Ice
1.2D + 1.6W 270 deg	90 mph 270 degree with No Ice
1.2D + 1.6W 315 deg	90 mph 315 degree with No Ice
0.9D + 1.6W Normal	90 mph Normal with No Ice (Reduced DL)
0.9D + 1.6W 45 deg	90 mph 45 deg with No Ice (Reduced DL)
0.9D + 1.6W 90 deg	90 mph 90 deg with No Ice (Reduced DL)
0.9D + 1.6W 135 deg	90 mph 135 deg with No Ice (Reduced DL)
0.9D + 1.6W 180 deg	90 mph 180 deg with No Ice (Reduced DL)
0.9D + 1.6W 225 deg	90 mph 225 deg with No Ice (Reduced DL)
0.9D + 1.6W 270 deg	90 mph 270 deg with No Ice (Reduced DL)
0.9D + 1.6W 315 deg	90 mph 315 deg with No Ice (Reduced DL)
1.2D + 1.0Di + 1.0Wi Normal	50 mph Normal with 0.75 in Radial Ice
1.2D + 1.0Di + 1.0Wi 45 deg	50 mph 45 deg with 0.75 in Radial Ice
1.2D + 1.0Di + 1.0Wi 90 deg	50 mph 90 deg with 0.75 in Radial Ice

Analysis Parameters

1.2D + 1.0Di + 1.0Wi 135 deg	50 mph 135 deg with 0.75 in Radial Ice
1.2D + 1.0Di + 1.0Wi 180 deg	50 mph 180 deg with 0.75 in Radial Ice
1.2D + 1.0Di + 1.0Wi 225 deg	50 mph 225 deg with 0.75 in Radial Ice
1.2D + 1.0Di + 1.0Wi 270 deg	50 mph 270 deg with 0.75 in Radial Ice
1.2D + 1.0Di + 1.0Wi 315 deg	50 mph 315 deg with 0.75 in Radial Ice
(1.2 + 0.2Sds) * DL + E Normal	Seismic Normal
(1.2 + 0.2Sds) * DL + E 45 deg	Seismic 45 deg
(1.2 + 0.2Sds) * DL + E 90 deg	Seismic 90 deg
(1.2 + 0.2Sds) * DL + E 135 deg	Seismic 135 deg
(1.2 + 0.2Sds) * DL + E 180 deg	Seismic 180 deg
(1.2 + 0.2Sds) * DL + E 225 deg	Seismic 225 deg
(1.2 + 0.2Sds) * DL + E 270 deg	Seismic 270 deg
(1.2 + 0.2Sds) * DL + E 315 deg	Seismic 315 deg
(0.9 - 0.2Sds) * DL + E Normal	Seismic (Reduced DL) Normal
(0.9 - 0.2Sds) * DL + E 45 deg	Seismic (Reduced DL) 45 deg
(0.9 - 0.2Sds) * DL + E 90 deg	Seismic (Reduced DL) 90 deg
(0.9 - 0.2Sds) * DL + E 135 deg	Seismic (Reduced DL) 135 deg
(0.9 - 0.2Sds) * DL + E 180 deg	Seismic (Reduced DL) 180 deg
(0.9 - 0.2Sds) * DL + E 225 deg	Seismic (Reduced DL) 225 deg
(0.9 - 0.2Sds) * DL + E 270 deg	Seismic (Reduced DL) 270 deg
(0.9 - 0.2Sds) * DL + E 315 deg	Seismic (Reduced DL) 315 deg
1.0D + 1.0W Service Normal	Serviceability - 60 mph Wind Normal
1.0D + 1.0W Service 45 deg	Serviceability - 60 mph Wind 45 deg
1.0D + 1.0W Service 90 deg	Serviceability - 60 mph Wind 90 deg
1.0D + 1.0W Service 135 deg	Serviceability - 60 mph Wind 135 deg
1.0D + 1.0W Service 180 deg	Serviceability - 60 mph Wind 180 deg
1.0D + 1.0W Service 225 deg	Serviceability - 60 mph Wind 225 deg
1.0D + 1.0W Service 270 deg	Serviceability - 60 mph Wind 270 deg
1.0D + 1.0W Service 315 deg	Serviceability - 60 mph Wind 315 deg

Site Number: 88166 Code: ANSI/TIA-222-G

Site Name: SOUTH SALEM NY, NY Engineering Number: 12936321_C3_01 6/13/2019 1:24:25 PM

Customer: VERIZON WIRELESS

Tower Loading

Discrete Appurtenance Properties 1.2D + 1.6W

Elevation (ft)	Description	Qty	Wt. (lb)	EPA (sf)	Length (ft)	Width (in)	Depth (in)	K_a	Orient. Factor	Vert. Ecc.(ft)	M_u (lb-ft)	Q_z (psf)	F_a (WL) (lb)	P_a (DL) (lb)
132.0	Generic 12' Omni	1	40	3.6	12.0	3.0	3.0	0.75	1.00	0.0	0.0	21.06	77	48
128.0	Alcatel-Lucent B13	3	58	2.1	1.8	12.0	8.9	0.75	0.67	0.0	0.0	21.02	92	208
128.0	Commscope JAHH-	6	61	9.1	6.0	13.8	8.2	0.75	0.69	0.0	0.0	21.02	809	436
128.0	Commscope SBNHH-	3	51	8.2	6.1	11.9	7.1	0.75	0.69	0.0	0.0	21.02	363	183
128.0	Nokia AHCA AirScale	3	35	1.3	1.1	11.6	6.5	0.75	0.50	0.0	0.0	21.02	41	127
128.0	Nokia AHFIC	3	79	2.2	1.8	12.1	7.1	0.75	0.67	0.0	0.0	21.02	96	286
128.0	Raycap RxxDC-3315-	3	21	2.5	1.6	15.7	10.3	0.75	0.67	0.0	0.0	21.02	108	77
125.0	20' Pipe	1	100	3.4	20.0	2.5	2.5	1.00	1.00	0.0	0.0	21.00	97	120
125.0	Decibel DB844H90E-	12	14	3.6	4.0	6.5	8.0	0.75	0.73	0.0	0.0	21.00	677	202
125.0	Heavy Platform with	1	6000	80.0	0.0	0.0	0.0	1.00	1.00	0.0	0.0	21.00	2285	7200
125.0	Pole Mount	6	30	0.9	5.5	2.5	2.5	1.00	1.00	-3.0	482.7	20.98	161	216
125.0	Round Sector Frame	3	300	14.4	0.0	0.0	0.0	0.75	0.67	0.0	0.0	21.00	620	1080
122.0	Andrew	3	11	0.4	0.5	3.0	7.7	0.75	0.50	0.0	0.0	20.98	13	40
122.0	Ericsson KRY 112	3	15	0.6	0.9	6.1	3.9	0.75	0.50	0.0	0.0	20.98	18	55
122.0	Ericsson Radio 4449	3	74	1.6	1.2	13.2	9.3	0.75	0.50	0.0	0.0	20.98	53	266
122.0	RFS APX16DWV-	3	41	6.6	4.7	13.3	3.1	0.75	0.60	0.0	0.0	20.98	254	147
122.0	RFS	3	128	20.2	8.0	24.0	8.7	0.75	0.63	0.0	0.0	20.98	819	460
113.0	Heavy Sector Frame	3	500	29.3	0.0	0.0	0.0	0.75	0.67	0.0	0.0	20.93	1257	1800
112.5	Catwalk	1	5000	65.0	0.0	0.0	0.0	1.00	1.00	0.0	0.0	20.92	1850	6000
111.0	Alcatel-Lucent	3	60	2.4	2.1	11.1	11.4	0.80	0.67	0.0	0.0	20.92	108	216
111.0	Alcatel-Lucent 800	3	62	2.5	1.6	13.0	15.2	0.80	0.67	0.0	0.0	20.92	114	222
111.0	Alcatel-Lucent TD-	3	70	4.1	2.2	18.6	6.7	0.80	0.61	0.0	0.0	20.92	169	252
111.0	RFS ACU-A20-N	3	1	0.1	0.3	2.0	3.5	0.80	0.50	0.0	0.0	20.92	4	4
111.0	RFS APXVSPP18-C	3	57	8.0	6.0	11.8	7.0	0.80	0.69	0.0	0.0	20.92	378	205
111.0	RFS APXVTM14-ALU-	3	56	6.3	4.7	12.6	6.3	0.80	0.66	0.0	0.0	20.92	286	202
104.0	Alcatel-Lucent 9442	3	49	2.5	2.1	12.0	9.0	0.80	0.67	0.0	0.0	20.89	114	176
104.0	Alcatel-Lucent B25	3	53	2.1	1.8	12.0	7.2	0.80	0.67	0.0	0.0	20.89	97	191
104.0	Alcatel-Lucent	3	70	3.2	2.6	12.0	8.7	0.80	0.72	0.0	0.0	20.89	155	252
104.0	Commscope NNHH-	9	99	17.1	8.0	19.6	7.8	0.80	0.64	0.0	0.0	20.89	2235	1071
104.0	Nokia Airscale Dual	3	77	2.2	1.8	12.1	7.0	0.80	0.67	0.0	0.0	20.89	102	278
104.0	Nokia AirScale RRH	3	35	1.3	1.1	11.6	6.5	0.80	0.50	0.0	0.0	20.89	44	127
104.0	Raycap DC6-48-60-	1	32	1.5	2.0	11.0	11.0	0.80	1.00	0.0	0.0	20.89	33	38
104.0	Raycap DC6-48-60-	1	20	1.3	2.0	9.7	9.7	0.80	1.00	0.0	0.0	20.89	29	24
104.0	Sector Frame Sabre	3	530	17.5	0.0	0.0	0.0	0.75	0.67	0.0	0.0	20.89	750	1908
85.00	Generic 5" x 3" x 2"	1	2	0.1	0.4	3.2	1.9	1.00	1.00	0.0	0.0	20.90	4	2
85.00	Generic Flat Side	1	188	6.3	0.0	0.0	0.0	1.00	0.67	0.0	0.0	20.90	120	225
85.00	Generic Low Noise	1	2	0.2	0.4	4.0	2.0	1.00	1.00	0.0	0.0	20.90	5	2
85.00	Procom CXL 900-	1	2	0.1	2.3	0.6	0.6	1.00	1.00	0.0	0.0	20.90	4	2
76.00	Rest Platform	1	500	15.0	0.0	0.0	0.0	1.00	1.00	0.0	0.0	20.93	427	600
75.00	Generic GPS	1	10	0.9	1.0	9.0	6.0	1.00	1.00	0.0	0.0	20.93	26	12
75.00	Stand-Off	1	100	3.5	0.0	0.0	0.0	1.00	0.67	0.0	0.0	20.93	67	120
56.00	Stand-Off	1	100	3.5	0.0	0.0	0.0	1.00	0.67	0.0	0.0	21.02	67	120
53.00	Generic GPS	4	10	0.9	1.0	9.0	6.0	0.80	0.50	3.0	123.5	21.02	41	48
25.00	Rest Platform	1	500	15.0	0.0	0.0	0.0	1.00	1.00	0.0	0.0	21.46	438	600
	Totals	124	21541	885.2									15505	25849

Discrete Appurtenance Properties 0.9D + 1.6W

Elevation (ft)	Description	Qty	Wt. (lb)	EPA (sf)	Length (ft)	Width (in)	Depth (in)	K_a	Orient. Factor	Vert. Ecc.(ft)	M_u (lb-ft)	Q_z (psf)	F_a (WL) (lb)	P_a (DL) (lb)
132.0	Generic 12' Omni	1	40	3.6	12.0	3.0	3.0	0.75	1.00	0.0	0.0	21.06	77	36
128.0	Alcatel-Lucent B13	3	58	2.1	1.8	12.0	8.9	0.75	0.67	0.0	0.0	21.02	92	156

Tower Loading

128.0	Commscope JAHH-	6	61	9.1	6.0	13.8	8.2	0.75	0.69	0.0	0.0	21.02	809	327
128.0	Commscope SBNHH-	3	51	8.2	6.1	11.9	7.1	0.75	0.69	0.0	0.0	21.02	363	137
128.0	Nokia AHCA AirScale	3	35	1.3	1.1	11.6	6.5	0.75	0.50	0.0	0.0	21.02	41	95
128.0	Nokia AHFIC	3	79	2.2	1.8	12.1	7.1	0.75	0.67	0.0	0.0	21.02	96	214
128.0	Raycap RxxDC-3315-	3	21	2.5	1.6	15.7	10.3	0.75	0.67	0.0	0.0	21.02	108	58
125.0	20' Pipe	1	100	3.4	20.0	2.5	2.5	1.00	1.00	0.0	0.0	21.00	97	90
125.0	Decibel DB844H90E-	12	14	3.6	4.0	6.5	8.0	0.75	0.73	0.0	0.0	21.00	677	151
125.0	Heavy Platform with	1	6000	80.0	0.0	0.0	0.0	1.00	1.00	0.0	0.0	21.00	2285	5400
125.0	Pole Mount	6	30	0.9	5.5	2.5	2.5	1.00	1.00	-3.0	482.7	20.98	161	162
125.0	Round Sector Frame	3	300	14.4	0.0	0.0	0.0	0.75	0.67	0.0	0.0	21.00	620	810
122.0	Andrew	3	11	0.4	0.5	3.0	7.7	0.75	0.50	0.0	0.0	20.98	13	30
122.0	Ericsson KRY 112	3	15	0.6	0.9	6.1	3.9	0.75	0.50	0.0	0.0	20.98	18	42
122.0	Ericsson Radio 4449	3	74	1.6	1.2	13.2	9.3	0.75	0.50	0.0	0.0	20.98	53	200
122.0	RFS APX16DWV-	3	41	6.6	4.7	13.3	3.1	0.75	0.60	0.0	0.0	20.98	254	110
122.0	RFS	3	128	20.2	8.0	24.0	8.7	0.75	0.63	0.0	0.0	20.98	819	345
113.0	Heavy Sector Frame	3	500	29.3	0.0	0.0	0.0	0.75	0.67	0.0	0.0	20.93	1257	1350
112.5	Catwalk	1	5000	65.0	0.0	0.0	0.0	1.00	1.00	0.0	0.0	20.92	1850	4500
111.0	Alcatel-Lucent	3	60	2.4	2.1	11.1	11.4	0.80	0.67	0.0	0.0	20.92	108	162
111.0	Alcatel-Lucent 800	3	62	2.5	1.6	13.0	15.2	0.80	0.67	0.0	0.0	20.92	114	167
111.0	Alcatel-Lucent TD-	3	70	4.1	2.2	18.6	6.7	0.80	0.61	0.0	0.0	20.92	169	189
111.0	RFS ACU-A20-N	3	1	0.1	0.3	2.0	3.5	0.80	0.50	0.0	0.0	20.92	4	3
111.0	RFS APXVSPP18-C	3	57	8.0	6.0	11.8	7.0	0.80	0.69	0.0	0.0	20.92	378	154
111.0	RFS APXVTM14-ALU-	3	56	6.3	4.7	12.6	6.3	0.80	0.66	0.0	0.0	20.92	286	152
104.0	Alcatel-Lucent 9442	3	49	2.5	2.1	12.0	9.0	0.80	0.67	0.0	0.0	20.89	114	132
104.0	Alcatel-Lucent B25	3	53	2.1	1.8	12.0	7.2	0.80	0.67	0.0	0.0	20.89	97	143
104.0	Alcatel-Lucent	3	70	3.2	2.6	12.0	8.7	0.80	0.72	0.0	0.0	20.89	155	189
104.0	Commscope NNHH-	9	99	17.1	8.0	19.6	7.8	0.80	0.64	0.0	0.0	20.89	2235	804
104.0	Nokia Airscale Dual	3	77	2.2	1.8	12.1	7.0	0.80	0.67	0.0	0.0	20.89	102	208
104.0	Nokia AirScale RRH	3	35	1.3	1.1	11.6	6.5	0.80	0.50	0.0	0.0	20.89	44	95
104.0	Raycap DC6-48-60-	1	32	1.5	2.0	11.0	11.0	0.80	1.00	0.0	0.0	20.89	33	29
104.0	Raycap DC6-48-60-	1	20	1.3	2.0	9.7	9.7	0.80	1.00	0.0	0.0	20.89	29	18
104.0	Sector Frame Sabre	3	530	17.5	0.0	0.0	0.0	0.75	0.67	0.0	0.0	20.89	750	1431
85.00	Generic 5" x 3" x 2"	1	2	0.1	0.4	3.2	1.9	1.00	1.00	0.0	0.0	20.90	4	1
85.00	Generic Flat Side	1	188	6.3	0.0	0.0	0.0	1.00	0.67	0.0	0.0	20.90	120	169
85.00	Generic Low Noise	1	2	0.2	0.4	4.0	2.0	1.00	1.00	0.0	0.0	20.90	5	2
85.00	Procom CXL 900-	1	2	0.1	2.3	0.6	0.6	1.00	1.00	0.0	0.0	20.90	4	1
76.00	Rest Platform	1	500	15.0	0.0	0.0	0.0	1.00	1.00	0.0	0.0	20.93	427	450
75.00	Generic GPS	1	10	0.9	1.0	9.0	6.0	1.00	1.00	0.0	0.0	20.93	26	9
75.00	Stand-Off	1	100	3.5	0.0	0.0	0.0	1.00	0.67	0.0	0.0	20.93	67	90
56.00	Stand-Off	1	100	3.5	0.0	0.0	0.0	1.00	0.67	0.0	0.0	21.02	67	90
53.00	Generic GPS	4	10	0.9	1.0	9.0	6.0	0.80	0.50	3.0	123.5	21.02	41	36
25.00	Rest Platform	1	500	15.0	0.0	0.0	0.0	1.00	1.00	0.0	0.0	21.46	438	450
	Totals	124	21541	885.2									15505	19387

Discrete Appurtenance Properties 1.2D + 1.0Di + 1.0Wi

Elevation (ft)	Description	Qty	Ice Wt (lb)	Ice EPA (sf)	Length (ft)	Width (in)	Depth (in)	K_a	Orient. Factor	Vert. Ecc.(ft)	M_u (lb-ft)	Q_z (psf)	F_a (WL) (lb)	P_a (DL) (lb)
132.0	Generic 12' Omni	1	133	8.0	12.0	3.0	3.0	0.75	1.00	0.0	0.0	6.50	33	141
128.0	Alcatel-Lucent B13	3	129	3.2	1.8	12.0	8.9	0.75	0.67	0.0	0.0	6.49	26	421
128.0	Commscope JAHH-	6	268	12.0	6.0	13.8	8.2	0.75	0.69	0.0	0.0	6.49	205	1683
128.0	Commscope SBNHH-	3	231	11.1	6.1	11.9	7.1	0.75	0.69	0.0	0.0	6.49	95	723
128.0	Nokia AHCA AirScale	3	76	2.1	1.1	11.6	6.5	0.75	0.50	0.0	0.0	6.49	13	248
128.0	Nokia AHFIC	3	144	3.3	1.8	12.1	7.1	0.75	0.67	0.0	0.0	6.49	27	478
128.0	Raycap RxxDC-3315-	3	103	3.6	1.6	15.7	10.3	0.75	0.67	0.0	0.0	6.49	30	322
125.0	20' Pipe	1	243	5.8	20.0	2.5	2.5	1.00	1.00	0.0	0.0	6.48	32	263

Tower Loading

125.0	Decibel DB844H90E-	12	128	3.9	4.0	6.5	8.0	0.75	0.73	0.0	0.0	6.48	143	1571
125.0	Heavy Platform with	1	10421	116.1	0.0	0.0	0.0	1.00	1.00	0.0	0.0	6.48	639	11621
125.0	Pole Mount	6	73	1.6	5.5	2.5	2.5	1.00	1.00	-3.0	159.7	6.47	53	474
125.0	Round Sector Frame	3	678	31.4	0.0	0.0	0.0	0.75	0.67	0.0	0.0	6.48	261	2213
122.0	Andrew	3	24	0.8	0.5	3.0	7.7	0.75	0.50	0.0	0.0	6.47	5	77
122.0	Ericsson KRY 112	3	34	1.1	0.9	6.1	3.9	0.75	0.50	0.0	0.0	6.47	7	110
122.0	Ericsson Radio 4449	3	131	2.5	1.2	13.2	9.3	0.75	0.50	0.0	0.0	6.47	16	439
122.0	RFS APX16DWV-	3	161	8.8	4.7	13.3	3.1	0.75	0.60	0.0	0.0	6.47	65	506
122.0	RFS	3	531	24.0	8.0	24.0	8.7	0.75	0.63	0.0	0.0	6.47	188	1670
113.0	Heavy Sector Frame	3	1065	47.1	0.0	0.0	0.0	0.75	0.67	0.0	0.0	6.46	390	3494
112.5	Catwalk	1	12148	111.5	0.0	0.0	0.0	1.00	1.00	0.0	0.0	6.46	612	13148
111.0	Alcatel-Lucent	3	145	3.5	2.1	11.1	11.4	0.80	0.67	0.0	0.0	6.46	31	472
111.0	Alcatel-Lucent 800	3	155	3.6	1.6	13.0	15.2	0.80	0.67	0.0	0.0	6.46	31	501
111.0	Alcatel-Lucent TD-	3	167	5.4	2.2	18.6	6.7	0.80	0.61	0.0	0.0	6.46	43	543
111.0	RFS ACU-A20-N	3	5	0.4	0.3	2.0	3.5	0.80	0.50	0.0	0.0	6.46	3	17
111.0	RFS APXVSPP18-C	3	234	10.9	6.0	11.8	7.0	0.80	0.69	0.0	0.0	6.46	99	736
111.0	RFS APXVTM14-ALU-	3	197	8.6	4.7	12.6	6.3	0.80	0.66	0.0	0.0	6.46	75	626
104.0	Alcatel-Lucent 9442	3	128	3.6	2.1	12.0	9.0	0.80	0.67	0.0	0.0	6.45	32	413
104.0	Alcatel-Lucent B25	3	115	3.1	1.8	12.0	7.2	0.80	0.67	0.0	0.0	6.45	28	377
104.0	Alcatel-Lucent	3	164	4.5	2.6	12.0	8.7	0.80	0.72	0.0	0.0	6.45	43	533
104.0	Commscope NNHH-	9	436	20.9	8.0	19.6	7.8	0.80	0.64	0.0	0.0	6.45	527	4101
104.0	Nokia Airscale Dual	3	141	3.3	1.8	12.1	7.0	0.80	0.67	0.0	0.0	6.45	29	469
104.0	Nokia AirScale RRH	3	76	2.1	1.1	11.6	6.5	0.80	0.50	0.0	0.0	6.45	14	248
104.0	Raycap DC6-48-60-	1	95	2.2	2.0	11.0	11.0	0.80	1.00	0.0	0.0	6.45	10	101
104.0	Raycap DC6-48-60-	1	74	1.9	2.0	9.7	9.7	0.80	1.00	0.0	0.0	6.45	8	78
104.0	Sector Frame Sabre	3	534	17.6	0.0	0.0	0.0	0.75	0.67	0.0	0.0	6.45	146	1919
85.00	Generic 5" x 3" x 2"	1	7	0.4	0.4	3.2	1.9	1.00	1.00	0.0	0.0	6.45	2	7
85.00	Generic Flat Side	1	324	9.5	0.0	0.0	0.0	1.00	0.67	0.0	0.0	6.45	35	362
85.00	Generic Low Noise	1	8	0.5	0.4	4.0	2.0	1.00	1.00	0.0	0.0	6.45	3	8
85.00	Procom CXL 900-	1	7	0.9	2.3	0.6	0.6	1.00	1.00	0.0	0.0	6.45	5	7
76.00	Rest Platform	1	1215	25.7	0.0	0.0	0.0	1.00	1.00	0.0	0.0	6.46	141	1315
75.00	Generic GPS	1	40	1.6	1.0	9.0	6.0	1.00	1.00	0.0	0.0	6.46	9	42
75.00	Stand-Off	1	150	5.4	0.0	0.0	0.0	1.00	0.67	0.0	0.0	6.46	20	170
56.00	Stand-Off	1	150	5.4	0.0	0.0	0.0	1.00	0.67	0.0	0.0	6.49	20	170
53.00	Generic GPS	4	40	1.6	1.0	9.0	6.0	0.80	0.50	3.0	41.2	6.49	14	168
25.00	Rest Platform	1	1186	25.3	0.0	0.0	0.0	1.00	1.00	0.0	0.0	6.62	142	1286
	Totals	124	49961	1259.1									4346	54269

Discrete Appurtenance Properties 1.0D + 1.0W Service

Elevation (ft)	Description	Qty	Wt. (lb)	EPA (sf)	Length (ft)	Width (in)	Depth (in)	K_a	Orient. Factor	Vert. Ecc.(ft)	M_u (lb-ft)	Q_z (psf)	F_a (WL) (lb)	P_a (DL) (lb)
132.0	Generic 12' Omni	1	40	3.6	12.0	3.0	3.0	0.75	1.00	0.0	0.0	9.36	21	40
128.0	Alcatel-Lucent B13	3	58	2.1	1.8	12.0	8.9	0.75	0.67	0.0	0.0	9.34	26	173
128.0	Commscope JAHH-	6	61	9.1	6.0	13.8	8.2	0.75	0.69	0.0	0.0	9.34	225	364
128.0	Commscope SBNHH-	3	51	8.2	6.1	11.9	7.1	0.75	0.69	0.0	0.0	9.34	101	152
128.0	Nokia AHCA AirScale	3	35	1.3	1.1	11.6	6.5	0.75	0.50	0.0	0.0	9.34	12	106
128.0	Nokia AHFIC	3	79	2.2	1.8	12.1	7.1	0.75	0.67	0.0	0.0	9.34	27	238
128.0	Raycap RxxDC-3315-	3	21	2.5	1.6	15.7	10.3	0.75	0.67	0.0	0.0	9.34	30	64
125.0	20' Pipe	1	100	3.4	20.0	2.5	2.5	1.00	1.00	0.0	0.0	9.33	27	100
125.0	Decibel DB844H90E-	12	14	3.6	4.0	6.5	8.0	0.75	0.73	0.0	0.0	9.33	188	168
125.0	Heavy Platform with	1	6000	80.0	0.0	0.0	0.0	1.00	1.00	0.0	0.0	9.33	635	6000
125.0	Pole Mount	6	30	0.9	5.5	2.5	2.5	1.00	1.00	-3.0	134.1	9.32	45	180
125.0	Round Sector Frame	3	300	14.4	0.0	0.0	0.0	0.75	0.67	0.0	0.0	9.33	172	900
122.0	Andrew	3	11	0.4	0.5	3.0	7.7	0.75	0.50	0.0	0.0	9.32	4	33
122.0	Ericsson KRY 112	3	15	0.6	0.9	6.1	3.9	0.75	0.50	0.0	0.0	9.32	5	46

Tower Loading

122.0	Ericsson Radio 4449	3	74	1.6	1.2	13.2	9.3	0.75	0.50	0.0	0.0	9.32	15	222
122.0	RFS APX16DWV-	3	41	6.6	4.7	13.3	3.1	0.75	0.60	0.0	0.0	9.32	71	122
122.0	RFS	3	128	20.2	8.0	24.0	8.7	0.75	0.63	0.0	0.0	9.32	227	384
113.0	Heavy Sector Frame	3	500	29.3	0.0	0.0	0.0	0.75	0.67	0.0	0.0	9.30	349	1500
112.5	Catwalk	1	5000	65.0	0.0	0.0	0.0	1.00	1.00	0.0	0.0	9.30	514	5000
111.0	Alcatel-Lucent	3	60	2.4	2.1	11.1	11.4	0.80	0.67	0.0	0.0	9.30	30	180
111.0	Alcatel-Lucent 800	3	62	2.5	1.6	13.0	15.2	0.80	0.67	0.0	0.0	9.30	32	185
111.0	Alcatel-Lucent TD-	3	70	4.1	2.2	18.6	6.7	0.80	0.61	0.0	0.0	9.30	47	210
111.0	RFS ACU-A20-N	3	1	0.1	0.3	2.0	3.5	0.80	0.50	0.0	0.0	9.30	1	3
111.0	RFS APXVSPP18-C	3	57	8.0	6.0	11.8	7.0	0.80	0.69	0.0	0.0	9.30	105	171
111.0	RFS APXVTM14-ALU-	3	56	6.3	4.7	12.6	6.3	0.80	0.66	0.0	0.0	9.30	79	169
104.0	Alcatel-Lucent 9442	3	49	2.5	2.1	12.0	9.0	0.80	0.67	0.0	0.0	9.29	32	147
104.0	Alcatel-Lucent B25	3	53	2.1	1.8	12.0	7.2	0.80	0.67	0.0	0.0	9.29	27	159
104.0	Alcatel-Lucent	3	70	3.2	2.6	12.0	8.7	0.80	0.72	0.0	0.0	9.29	43	210
104.0	Commscope NNHH-	9	99	17.1	8.0	19.6	7.8	0.80	0.64	0.0	0.0	9.29	621	893
104.0	Nokia Airscale Dual	3	77	2.2	1.8	12.1	7.0	0.80	0.67	0.0	0.0	9.29	28	232
104.0	Nokia AirScale RRH	3	35	1.3	1.1	11.6	6.5	0.80	0.50	0.0	0.0	9.29	12	106
104.0	Raycap DC6-48-60-	1	32	1.5	2.0	11.0	11.0	0.80	1.00	0.0	0.0	9.29	9	32
104.0	Raycap DC6-48-60-	1	20	1.3	2.0	9.7	9.7	0.80	1.00	0.0	0.0	9.29	8	20
104.0	Sector Frame Sabre	3	530	17.5	0.0	0.0	0.0	0.75	0.67	0.0	0.0	9.29	208	1590
85.00	Generic 5" x 3" x 2"	1	2	0.1	0.4	3.2	1.9	1.00	1.00	0.0	0.0	9.29	1	2
85.00	Generic Flat Side	1	188	6.3	0.0	0.0	0.0	1.00	0.67	0.0	0.0	9.29	33	188
85.00	Generic Low Noise	1	2	0.2	0.4	4.0	2.0	1.00	1.00	0.0	0.0	9.29	1	2
85.00	Procom CXL 900-	1	2	0.1	2.3	0.6	0.6	1.00	1.00	0.0	0.0	9.29	1	2
76.00	Rest Platform	1	500	15.0	0.0	0.0	0.0	1.00	1.00	0.0	0.0	9.30	119	500
75.00	Generic GPS	1	10	0.9	1.0	9.0	6.0	1.00	1.00	0.0	0.0	9.30	7	10
75.00	Stand-Off	1	100	3.5	0.0	0.0	0.0	1.00	0.67	0.0	0.0	9.30	19	100
56.00	Stand-Off	1	100	3.5	0.0	0.0	0.0	1.00	0.67	0.0	0.0	9.34	19	100
53.00	Generic GPS	4	10	0.9	1.0	9.0	6.0	0.80	0.50	3.0	34.3	9.34	11	40
25.00	Rest Platform	1	500	15.0	0.0	0.0	0.0	1.00	1.00	0.0	0.0	9.54	122	500
	Totals	124	21541	885.2									4307	21541

Tower Loading

Linear Appurtenance Properties

Elev From (ft)	Elev To (ft)	Description	Qty	Width (in)	Weight (lb/ft)	Pct In Block	Spread On Faces	Bundling Arrangement	Cluster Dia (in)	Out Of Zone	Spacing (in)	Orientation Factor	Ka Override
0.00	128.0	1 5/8" Coax	12	1.98	0.82	75	Lin App	Block	0.00	N	1.00	1.00	0.00
0.00	128.0	1 5/8" Hybriflex	3	1.98	1.30	100	Lin App	Individual	0.00	N	1.00	1.00	0.00
0.00	125.0	1 5/8" Coax	12	1.98	0.82	100	Lin App	Individual	0.00	N	1.00	1.00	0.00
0.00	125.0	Climbing Ladder	1	2.00	6.90	100	Lin App	Individual	0.00	N	1.00	1.00	0.00
0.00	125.0	Waveguide Ladder	1	2.00	6.00	100	Lin App	Individual	0.00	N	1.00	1.00	0.00
0.00	125.0	Waveguide Ladder	2	2.00	6.00	100	Lin App	Individual	0.00	N	1.00	1.00	0.00
0.00	122.0	1 5/8" Coax	18	1.98	0.82	67	Lin App	Block	0.00	N	1.00	1.00	0.00
0.00	122.0	1 5/8" Hybriflex	3	1.98	1.30	100	Lin App	Individual	0.00	N	1.00	1.00	0.00
0.00	111.0	1 1/4" Hybriflex	3	1.54	1.00	33	Lin App	Block	0.00	N	1.00	1.00	0.00
0.00	111.0	1.54" (39.2mm)	1	1.54	1.60	100	Lin App	Individual	0.00	N	1.00	1.00	0.00
0.00	104.0	0.39" (10mm) Fiber	2	0.39	0.06	50	Lin App	Block	0.00	N	1.00	1.00	0.00
0.00	104.0	0.78" (19.7mm) 8	4	0.78	0.59	50	Lin App	Block	0.00	N	1.00	1.00	0.00
0.00	104.0	2" conduit	1	2.38	3.65	100	Lin App	Individual	0.00	N	1.00	1.00	0.01
0.00	104.0	2" conduit	1	2.38	3.65	100	Lin App	Individual	0.00	N	1.00	1.00	0.01
0.00	104.0	7/8" Coax	12	1.09	0.33	50	Lin App	Block	0.00	N	1.00	1.00	0.00
0.00	85.00	1/2" Coax	1	0.63	0.15	100	Lin App	Individual	0.00	N	1.00	1.00	0.00
0.00	75.00	1/2" Coax	1	0.63	0.15	100	Lin App	Individual	0.00	N	1.00	1.00	0.00
0.00	53.00	1/2" Coax	4	0.63	0.15	100	Lin App	Cluster	1.26	N	1.00	1.00	0.00

Equivalent Lateral Force Method

(Based on ASCE7-10 Chapters 11, 12 & 15)

Spectral Response Acceleration for Short Period (S_s):	0.23
Spectral Response Acceleration at 1.0 Second Period (S_1):	0.07
Long-Period Transition Period (T_L - Seconds):	6
Importance Factor (I_e):	1.00
Site Coefficient F_a:	1.60
Site Coefficient F_v:	2.40
Response Modification Coefficient (R):	3.00
Design Spectral Response Acceleration at Short Period (S_{ds}):	0.25
Design Spectral Response Acceleration at 1.0 Second Period (S_{d1}):	0.11
Seismic Response Coefficient (C_s):	0.08
Upper Limit C_s:	0.08
Lower Limit C_s:	0.03
Period based on Rayleigh Method (sec):	0.49
Redundancy Factor (ρ):	1.30
Seismic Force Distribution Exponent (k):	1.00
Total Unfactored Dead Load:	65.64 k
Seismic Base Shear (E):	6.56 k

LoadCase (1.2 + 0.2Sds) * DL + E Seismic

Section	Height Above Base (ft)	Weight (lb)	W_z (lb-ft)	C_{vx}	Horizontal Force (lb)	Vertical Force (lb)
10	120.71	2,268	273,826	0.056	366	2,836
9	112.13	2,022	226,682	0.046	303	2,527
8	102.75	3,101	318,609	0.065	425	3,876
7	92.58	2,827	261,737	0.053	349	3,534
6	81.25	3,990	324,173	0.066	433	4,988
5	68.75	4,357	299,558	0.061	400	5,447
4	56.25	4,535	255,120	0.052	341	5,670
3	43.75	5,180	226,619	0.046	303	6,476
2	31.25	5,316	166,131	0.034	222	6,646
1	12.50	10,499	131,235	0.027	175	13,125
Generic 12' Omni	132.00	40	5,280	0.001	7	50
Alcatel-Lucent B13 RRH4x30-4R	128.00	173	22,195	0.005	30	217
Commscope JAHH-65B-R3B	128.00	364	46,541	0.009	62	455
Commscope SBNHH-1D65B	128.00	152	19,469	0.004	26	190
Nokia AHCA AirScale RRH 4T4R B5 160W	128.00	106	13,555	0.003	18	132
Nokia AHFIC AirScale Dual RRH 4T4R	128.00	238	30,490	0.006	41	298
Raycap RxxDC-3315-PF-48	128.00	64	8,218	0.002	11	80
20' Pipe	125.00	100	12,500	0.003	17	125
Decibel DB844H90E-XY	125.00	168	21,000	0.004	28	210
Heavy Platform with Handrails	125.00	6,000	750,000	0.153	1,001	7,501
Pole Mount	125.00	180	22,500	0.005	30	225
Round Sector Frame	125.00	900	112,500	0.023	150	1,125
Andrew ETW200VS12UB	122.00	33	4,026	0.001	5	41

Equivalent Lateral Force Method

Ericsson KRY 112 489/2	122.00	46	5,636	0.001	8	58
Ericsson Radio 4449 B12,B71	122.00	222	27,084	0.006	36	278
RFS APX16DWV-16DWVS-E-A20	122.00	122	14,896	0.003	20	153
RFS APXVAARR24_43-U-NA20	122.00	384	46,811	0.010	63	480
Heavy Sector Frame	113.00	1,500	169,500	0.034	226	1,875
Catwalk	112.50	5,000	562,500	0.114	751	6,251
Alcatel-Lucent 1900MHz RRH (65MHz)	111.00	180	19,980	0.004	27	225
Alcatel-Lucent 800 MHz RRH w/ Notch	111.00	185	20,579	0.004	27	232
Alcatel-Lucent TD-RRH8x20-25 w/ Solar	111.00	210	23,310	0.005	31	263
RFS ACU-A20-N	111.00	3	333	0.000	0	4
RFS APXVSPP18-C	111.00	171	18,981	0.004	25	214
RFS APXVTM14-ALU-I20	111.00	169	18,715	0.004	25	211
Alcatel-Lucent 9442 RRH2x40-AWS	104.00	147	15,288	0.003	20	184
Alcatel-Lucent B25 RRH4x30	104.00	159	16,536	0.003	22	199
Alcatel-Lucent RRH4x25-WCS-4R	104.00	210	21,840	0.004	29	263
Commscope NNHH-65C-R4	104.00	893	92,851	0.019	124	1,116
Nokia Airscale Dual RRH 4T4R B12/B14	104.00	232	24,086	0.005	32	290
Nokia AirScale RRH 4T4R B5 160W AHCA	104.00	106	11,014	0.002	15	132
Raycap DC6-48-60-18-8F ("Squid")	104.00	32	3,307	0.001	4	40
Raycap DC6-48-60-18-8F (23.5" Height)	104.00	20	2,080	0.000	3	25
Sector Frame Sabre 12' EHD V-Boom	104.00	1,590	165,360	0.034	221	1,988
Generic 5" x 3" x 2" Cavity Filter	85.00	2	128	0.000	0	2
Generic Flat Side Arm	85.00	188	15,938	0.003	21	234
Generic Low Noise Amplifier	85.00	2	170	0.000	0	3
Procom CXL 900-3LW	85.00	2	128	0.000	0	2
Rest Platform	76.00	500	38,000	0.008	51	625
Generic GPS	75.00	10	750	0.000	1	13
Stand-Off	75.00	100	7,500	0.002	10	125
Stand-Off	56.00	100	5,600	0.001	7	125
Generic GPS	53.00	40	2,120	0.000	3	50
Rest Platform	25.00	500	12,500	0.003	17	625
		65,636	4,915,484	1.000	6,563	82,054

LoadCase (0.9 - 0.2Sds) * DL + E **Seismic (Reduced DL)**

Section	Height Above Base (ft)	Weight (lb)	W_z (lb-ft)	C_{vx}	Horizontal Force (lb)	Vertical Force (lb)
10	120.71	2,268	273,826	0.056	366	1,928
9	112.13	2,022	226,682	0.046	303	1,718
8	102.75	3,101	318,609	0.065	425	2,635
7	92.58	2,827	261,737	0.053	349	2,403
6	81.25	3,990	324,173	0.066	433	3,391
5	68.75	4,357	299,558	0.061	400	3,703
4	56.25	4,535	255,120	0.052	341	3,855
3	43.75	5,180	226,619	0.046	303	4,402
2	31.25	5,316	166,131	0.034	222	4,518
1	12.50	10,499	131,235	0.027	175	8,923
Generic 12' Omni	132.00	40	5,280	0.001	7	34
Alcatel-Lucent B13 RRH4x30-4R	128.00	173	22,195	0.005	30	147
Commscope JAHH-65B-R3B	128.00	364	46,541	0.009	62	309
Commscope SBNHH-1D65B	128.00	152	19,469	0.004	26	129
Nokia AHCA AirScale RRH 4T4R B5 160W	128.00	106	13,555	0.003	18	90
Nokia AHFIC AirScale Dual RRH 4T4R	128.00	238	30,490	0.006	41	202
Raycap RxxDC-3315-PF-48	128.00	64	8,218	0.002	11	55

Equivalent Lateral Force Method

20' Pipe	125.00	100	12,500	0.003	17	85
Decibel DB844H90E-XY	125.00	168	21,000	0.004	28	143
Heavy Platform with Handrails	125.00	6,000	750,000	0.153	1,001	5,099
Pole Mount	125.00	180	22,500	0.005	30	153
Round Sector Frame	125.00	900	112,500	0.023	150	765
Andrew ETW200VS12UB	122.00	33	4,026	0.001	5	28
Ericsson KRY 112 489/2	122.00	46	5,636	0.001	8	39
Ericsson Radio 4449 B12,B71	122.00	222	27,084	0.006	36	189
RFS APX16DWV-16DWVS-E-A20	122.00	122	14,896	0.003	20	104
RFS APXVAARR24_43-U-NA20	122.00	384	46,811	0.010	63	326
Heavy Sector Frame	113.00	1,500	169,500	0.034	226	1,275
Catwalk	112.50	5,000	562,500	0.114	751	4,249
Alcatel-Lucent 1900MHz RRH (65MHz)	111.00	180	19,980	0.004	27	153
Alcatel-Lucent 800 MHz RRH w/ Notch	111.00	185	20,579	0.004	27	158
Alcatel-Lucent TD-RRH8x20-25 w/ Solar	111.00	210	23,310	0.005	31	178
RFS ACU-A20-N	111.00	3	333	0.000	0	3
RFS APXVSPP18-C	111.00	171	18,981	0.004	25	145
RFS APXVTM14-ALU-I20	111.00	169	18,715	0.004	25	143
Alcatel-Lucent 9442 RRH2x40-AWS	104.00	147	15,288	0.003	20	126
Alcatel-Lucent B25 RRH4x30	104.00	159	16,536	0.003	22	135
Alcatel-Lucent RRH4x25-WCS-4R	104.00	210	21,840	0.004	29	178
Commscope NNHH-65C-R4	104.00	893	92,851	0.019	124	759
Nokia Airscale Dual RRH 4T4R B12/B14	104.00	232	24,086	0.005	32	197
Nokia AirScale RRH 4T4R B5 160W AHCA	104.00	106	11,014	0.002	15	90
Raycap DC6-48-60-18-8F ("Squid")	104.00	32	3,307	0.001	4	27
Raycap DC6-48-60-18-8F (23.5" Height)	104.00	20	2,080	0.000	3	17
Sector Frame Sabre 12' EHD V-Boom	104.00	1,590	165,360	0.034	221	1,351
Generic 5" x 3" x 2" Cavity Filter	85.00	2	128	0.000	0	1
Generic Flat Side Arm	85.00	188	15,938	0.003	21	159
Generic Low Noise Amplifier	85.00	2	170	0.000	0	2
Procom CXL 900-3LW	85.00	2	128	0.000	0	1
Rest Platform	76.00	500	38,000	0.008	51	425
Generic GPS	75.00	10	750	0.000	1	8
Stand-Off	75.00	100	7,500	0.002	10	85
Stand-Off	56.00	100	5,600	0.001	7	85
Generic GPS	53.00	40	2,120	0.000	3	34
Rest Platform	25.00	500	12,500	0.003	17	425
		65,636	4,915,484	1.000	6,563	55,782

Equivalent Modal Analysis Method

(Based on ASCE7-10 Chapters 11, 12 & 15 and ANSI/TIA-G, section 2.7)

Spectral Response Acceleration for Short Period (S_s):	0.23
Spectral Response Acceleration at 1.0 Second Period (S_1):	0.07
Importance Factor (I_e):	1.00
Site Coefficient F_a:	1.60
Site Coefficient F_v:	2.40
Response Modification Coefficient (R):	3.00
Design Spectral Response Acceleration at Short Period (S_{ds}):	0.25
Desing Spectral Response Acceleration at 1.0 Second Period (S_{d1}):	0.11
Period Based on Rayleigh Method (sec):	0.49
Redundancy Factor (p):	1.30

LoadCase (1.2 + 0.2Sds) * DL + E Seismic

Section	Height Above Base (ft)	Weight (lb)	a	b	c	S_{az}	Horizontal Force (lb)	Vertical Force (lb)
10	120.71	2,268	1.762	1.373	0.914	0.541	532	2,836
9	112.13	2,022	1.521	0.554	0.568	0.388	340	2,527
8	102.75	3,101	1.277	0.090	0.316	0.272	366	3,876
7	92.58	2,827	1.037	-0.099	0.150	0.196	240	3,534
6	81.25	3,990	0.799	-0.112	0.053	0.149	258	4,988
5	68.75	4,357	0.572	-0.043	0.012	0.120	226	5,447
4	56.25	4,535	0.383	0.023	0.007	0.094	185	5,670
3	43.75	5,180	0.232	0.058	0.019	0.069	154	6,476
2	31.25	5,316	0.118	0.070	0.035	0.045	105	6,646
1	12.50	10,499	0.019	0.063	0.037	0.021	96	13,125
Generic 12' Omni	132.00	40	2.108	3.336	1.602	0.820	14	50
Alcatel-Lucent B13 RRH4x30-4R	128.00	173	1.982	2.500	1.323	0.711	53	217
Commscope JAHH-65B-R3B	128.00	364	1.982	2.500	1.323	0.711	112	455
Commscope SBNHH-1D65B	128.00	152	1.982	2.500	1.323	0.711	47	190
Nokia AHCA AirScale RRH 4T4R	128.00	106	1.982	2.500	1.323	0.711	33	132
Nokia AHFIC AirScale Dual RRH	128.00	238	1.982	2.500	1.323	0.711	73	298
Raycap RxxDC-3315-PF-48	128.00	64	1.982	2.500	1.323	0.711	20	80
20' Pipe	125.00	100	1.890	1.980	1.140	0.637	28	125
Decibel DB844H90E-XY	125.00	168	1.890	1.980	1.140	0.637	46	210
Heavy Platform with Handrails	125.00	6,000	1.890	1.980	1.140	0.637	1,656	7,501
Pole Mount	125.00	180	1.890	1.980	1.140	0.637	50	225
Round Sector Frame	125.00	900	1.890	1.980	1.140	0.637	248	1,125
Andrew ETW200VS12UB	122.00	33	1.800	1.540	0.978	0.569	8	41
Ericsson KRY 112 489/2	122.00	46	1.800	1.540	0.978	0.569	11	58
Ericsson Radio 4449 B12,B71	122.00	222	1.800	1.540	0.978	0.569	55	278
RFS APX16DWV-16DWVS-E-A20	122.00	122	1.800	1.540	0.978	0.569	30	153
RFS APXVAARR24_43-U-NA20	122.00	384	1.800	1.540	0.978	0.569	95	480
Heavy Sector Frame	113.00	1,500	1.545	0.617	0.597	0.402	261	1,875
Catwalk	112.50	5,000	1.531	0.580	0.580	0.394	853	6,251
Alcatel-Lucent 1900MHz RRH	111.00	180	1.490	0.478	0.531	0.372	29	225
Alcatel-Lucent 800 MHz RRH w/	111.00	185	1.490	0.478	0.531	0.372	30	232
Alcatel-Lucent TD-RRH8x20-25	111.00	210	1.490	0.478	0.531	0.372	34	263
RFS ACU-A20-N	111.00	3	1.490	0.478	0.531	0.372	0	4
RFS APXVSPP18-C	111.00	171	1.490	0.478	0.531	0.372	28	214
RFS APXVTM14-ALU-I20	111.00	169	1.490	0.478	0.531	0.372	27	211
Alcatel-Lucent 9442 RRH2x40-	104.00	147	1.308	0.132	0.343	0.285	18	184
Alcatel-Lucent B25 RRH4x30	104.00	159	1.308	0.132	0.343	0.285	20	199
Alcatel-Lucent RRH4x25-WCS-4R	104.00	210	1.308	0.132	0.343	0.285	26	263

Equivalent Modal Analysis Method

Commscope NNHH-65C-R4	104.00	893	1.308	0.132	0.343	0.285	110	1,116
Nokia Airscale Dual RRH 4T4R	104.00	232	1.308	0.132	0.343	0.285	29	290
Nokia AirScale RRH 4T4R B5	104.00	106	1.308	0.132	0.343	0.285	13	132
Raycap DC6-48-60-18-8F ("Squid")	104.00	32	1.308	0.132	0.343	0.285	4	40
Raycap DC6-48-60-18-8F (23.5"	104.00	20	1.308	0.132	0.343	0.285	2	25
Sector Frame Sabre 12' EHD V-	104.00	1,590	1.308	0.132	0.343	0.285	196	1,988
Generic 5" x 3" x 2" Cavity Filter	85.00	2	0.874	-0.121	0.078	0.161	0	2
Generic Flat Side Arm	85.00	188	0.874	-0.121	0.078	0.161	13	234
Generic Low Noise Amplifier	85.00	2	0.874	-0.121	0.078	0.161	0	3
Procom CXL 900-3LW	85.00	2	0.874	-0.121	0.078	0.161	0	2
Rest Platform	76.00	500	0.699	-0.086	0.030	0.135	29	625
Generic GPS	75.00	10	0.680	-0.081	0.026	0.133	1	13
Stand-Off	75.00	100	0.680	-0.081	0.026	0.133	6	125
Stand-Off	56.00	100	0.379	0.024	0.007	0.094	4	125
Generic GPS	53.00	40	0.340	0.036	0.009	0.088	2	50
Rest Platform	25.00	500	0.076	0.072	0.040	0.036	8	625
		65,636	70.311	42.571	30.145	19.867	6,824	82,054

LoadCase (0.9 - 0.2Sds) * DL + E Seismic (Reduced DL)

Section	Height Above Base (ft)	Weight (lb)	a	b	c	S_{ai}	Horizontal Force (lb)	Vertical Force (lb)
10	120.71	2,268	1.762	1.373	0.914	0.541	532	1,928
9	112.13	2,022	1.521	0.554	0.568	0.388	340	1,718
8	102.75	3,101	1.277	0.090	0.316	0.272	366	2,635
7	92.58	2,827	1.037	-0.099	0.150	0.196	240	2,403
6	81.25	3,990	0.799	-0.112	0.053	0.149	258	3,391
5	68.75	4,357	0.572	-0.043	0.012	0.120	226	3,703
4	56.25	4,535	0.383	0.023	0.007	0.094	185	3,855
3	43.75	5,180	0.232	0.058	0.019	0.069	154	4,402
2	31.25	5,316	0.118	0.070	0.035	0.045	105	4,518
1	12.50	10,499	0.019	0.063	0.037	0.021	96	8,923
Generic 12' Omni	132.00	40	2.108	3.336	1.602	0.820	14	34
Alcatel-Lucent B13 RRH4x30-4R	128.00	173	1.982	2.500	1.323	0.711	53	147
Commscope JAHH-65B-R3B	128.00	364	1.982	2.500	1.323	0.711	112	309
Commscope SBNHH-1D65B	128.00	152	1.982	2.500	1.323	0.711	47	129
Nokia AHCA AirScale RRH 4T4R	128.00	106	1.982	2.500	1.323	0.711	33	90
Nokia AHFIC AirScale Dual RRH	128.00	238	1.982	2.500	1.323	0.711	73	202
Raycap RxxDC-3315-PF-48	128.00	64	1.982	2.500	1.323	0.711	20	55
20" Pipe	125.00	100	1.890	1.980	1.140	0.637	28	85
Decibel DB844H90E-XY	125.00	168	1.890	1.980	1.140	0.637	46	143
Heavy Platform with Handrails	125.00	6,000	1.890	1.980	1.140	0.637	1,656	5,099
Pole Mount	125.00	180	1.890	1.980	1.140	0.637	50	153
Round Sector Frame	125.00	900	1.890	1.980	1.140	0.637	248	765
Andrew ETW200VS12UB	122.00	33	1.800	1.540	0.978	0.569	8	28
Ericsson KRY 112 489/2	122.00	46	1.800	1.540	0.978	0.569	11	39
Ericsson Radio 4449 B12,B71	122.00	222	1.800	1.540	0.978	0.569	55	189
RFS APX16DWV-16DWVS-E-A20	122.00	122	1.800	1.540	0.978	0.569	30	104
RFS APXVAARR24_43-U-NA20	122.00	384	1.800	1.540	0.978	0.569	95	326
Heavy Sector Frame	113.00	1,500	1.545	0.617	0.597	0.402	261	1,275
Catwalk	112.50	5,000	1.531	0.580	0.580	0.394	853	4,249
Alcatel-Lucent 1900MHz RRH	111.00	180	1.490	0.478	0.531	0.372	29	153
Alcatel-Lucent 800 MHz RRH w/	111.00	185	1.490	0.478	0.531	0.372	30	158
Alcatel-Lucent TD-RRH8x20-25	111.00	210	1.490	0.478	0.531	0.372	34	178
RFS ACU-A20-N	111.00	3	1.490	0.478	0.531	0.372	0	3
RFS APXVSPP18-C	111.00	171	1.490	0.478	0.531	0.372	28	145
RFS APXVTM14-ALU-I20	111.00	169	1.490	0.478	0.531	0.372	27	143
Alcatel-Lucent 9442 RRH2x40-	104.00	147	1.308	0.132	0.343	0.285	18	125
Alcatel-Lucent B25 RRH4x30	104.00	159	1.308	0.132	0.343	0.285	20	135
Alcatel-Lucent RRH4x25-WCS-4R	104.00	210	1.308	0.132	0.343	0.285	26	178
Commscope NNHH-65C-R4	104.00	893	1.308	0.132	0.343	0.285	110	759
Nokia Airscale Dual RRH 4T4R	104.00	232	1.308	0.132	0.343	0.285	29	197
Nokia AirScale RRH 4T4R B5	104.00	106	1.308	0.132	0.343	0.285	13	90

Equivalent Modal Analysis Method

Raycap DC6-48-60-18-8F ("Squid")	104.00	32	1.308	0.132	0.343	0.285	4	27
Raycap DC6-48-60-18-8F (23.6"	104.00	20	1.308	0.132	0.343	0.285	2	17
Sector Frame Sabre 12' EHD V-	104.00	1,590	1.308	0.132	0.343	0.285	196	1,351
Generic 5" x 3" x 2" Cavity Filter	85.00	2	0.874	-0.121	0.078	0.161	0	1
Generic Flat Side Arm	85.00	188	0.874	-0.121	0.078	0.161	13	159
Generic Low Noise Amplifier	85.00	2	0.874	-0.121	0.078	0.161	0	2
Procom CXL 900-3LW	85.00	2	0.874	-0.121	0.078	0.161	0	1
Rest Platform	76.00	500	0.699	-0.086	0.030	0.135	29	425
Generic GPS	75.00	10	0.680	-0.081	0.026	0.133	1	8
Stand-Off	75.00	100	0.680	-0.081	0.026	0.133	6	85
Stand-Off	56.00	100	0.379	0.024	0.007	0.094	4	85
Generic GPS	53.00	40	0.340	0.036	0.009	0.088	2	34
Rest Platform	25.00	500	0.076	0.072	0.040	0.036	8	425
		65,636	70.311	42.571	30.145	19.867	6,824	55,782

Force/Stress Summary

Section: 1 1 Bot Elev (ft): 0.00 Height (ft): 25.000

Max Compression Member		Pu (kip)	Load Case	Len (ft)	Bracing % X	Y	Z	KL/R	F'y (ksi)	Phic Pn (kip)	Num Bolts	Num Holes	Shear phiRnv (kip)	Bear phiRn (kip)	Use %	Controls
LEG	SAE - 8X8X0.625	-144.11	1.2D + 1.6W 45 deg	25.09	33	33	33	62.9	33.0	235.82	40	4	715.70	1,980.0	61	Member Z
HORIZ	DAE - 2.5X2.5X0.25	-10.16	0.9D + 1.6W Normal	10.60	100	100	16	154.6	33.0	22.48	4	2	71.57	79.20	45	Member X
DIAG	DAS - 3.5X3X0.25	-26.90	1.2D + 1.6W Normal	27.82	33	67	6	135.7	33.0	38.23	6	2	107.35	118.80	70	Member Y

Max Tension Member		Pu (kip)	Load Case	Fy (ksi)	Fu (ksi)	Phit Pn (kip)	Num Bolts	Num Holes	Shear phiRnv (kip)	Bear phiRn (kip)	Blk Shear phit Pn (kip)	Use %	Controls
LEG	SAE - 8X8X0.625	113.14	0.9D + 1.6W 45 deg	33	55	285.42	40	4	715.70	1,980.41		39	Member
HORIZ	DAE - 2.5X2.5X0.25	10.56	1.2D + 1.6W Normal	33	55	60.10	4	2	71.57	63.53	39.24	26	Blk Shear
DIAG	DAS - 3.5X3X0.25	25.73	1.2D + 1.6W Normal	33	55	83.30	6	2	107.35	103.13	63.68	40	Blk Shear

Max Splice Forces	Pu (kip)	Load Case	phiRnt (kip)	Use %	Num Bolts	Bolt Type
Top Tension	112.61	0.9D + 1.6W 135 deg	0.00	0	0	
Top Compression	143.65	1.2D + 1.6W 135 deg	0.00	0		
Bot Tension	148.03	0.9D + 1.6W 135 deg	412.21	36	4	2" C1015
Bot Compression	180.98	1.2D + 1.6W 135 deg	0.00	0		

Section: 2 1 Bot Elev (ft): 25.00 Height (ft): 12.500

Max Compression Member		Pu (kip)	Load Case	Len (ft)	Bracing % X	Y	Z	KL/R	F'y (ksi)	Phic Pn (kip)	Num Bolts	Num Holes	Shear phiRnv (kip)	Bear phiRn (kip)	Use %	Controls
LEG	SAE - 6X6X0.75	-125.44	1.2D + 1.6W 45 deg	12.55	50	50	50	64.4	33.0	205.26	32	4	572.56	1,900.8	61	Member Z
HORIZ	DAE - 2.5X2.5X0.25	-9.02	1.2D + 1.6W Normal	9.820	100	100	20	145.4	33.0	25.44	4	2	71.57	79.20	35	Member X
DIAG	DAE - 2.5X2.5X0.25	-15.61	1.2D + 1.6W Normal	16.40	50	100	12	162.0	33.0	20.49	4	2	71.57	79.20	76	Member Y

Max Tension Member		Pu (kip)	Load Case	Fy (ksi)	Fu (ksi)	Phit Pn (kip)	Num Bolts	Num Holes	Shear phiRnv (kip)	Bear phiRn (kip)	Blk Shear phit Pn (kip)	Use %	Controls
LEG	SAE - 6X6X0.75	98.38	0.9D + 1.6W 135 deg	33	55	239.87	32	4	572.56	1,877.29		41	Member
HORIZ	DAE - 2.5X2.5X0.25	9.09	1.2D + 1.6W Normal	33	55	60.10	4	2	71.57	63.53	39.24	23	Blk Shear
DIAG	DAE - 2.5X2.5X0.25	14.56	1.2D + 1.6W Normal	33	55	60.10	4	2	71.57	63.53	39.24	37	Blk Shear

Max Splice Forces	Pu (kip)	Load Case	phiRnt (kip)	Use %	Num Bolts	Bolt Type
Top Tension	97.66	0.9D + 1.6W 135 deg	0.00	0	0	
Top Compression	125.23	1.2D + 1.6W 135 deg	0.00	0		
Bot Tension	112.61	0.9D + 1.6W 135 deg	0.00	0		
Bot Compression	0.00		0.00	0		

Force/Stress Summary

Section: 3 1 Bot Elev (ft): 37.50 Height (ft): 12.500

Max Compression Member		Pu (kip)	Load Case	Len (ft)	Bracing % X	Y	Z	KL/R	F'y (ksi)	Phic Pn (kip)	Num Bolts	Num Holes	Shear phiRnv (kip)	Bear phiRn (kip)	Use %	Controls
LEG	SAE - 6X6X0.75	-105.49	1.2D + 1.6W 45 deg	12.53	50	50	50	64.3	33.0	205.37	0	0	0.00	0.00	51	Member Z
HORIZ	DAE - 2.5X2.5X0.25	-8.80	0.9D + 1.6W Normal	9.190	100	100	20	137.9	33.0	28.24	4	2	71.57	79.20	31	Member X
DIAG	DAE - 2.5X2.5X0.25	-16.47	1.2D + 1.6W Normal	15.90	50	100	12	157.9	33.0	21.57	4	2	71.57	79.20	76	Member Y

Max Tension Member		Pu (kip)	Load Case	Fy (ksi)	Fu (ksi)	Phit Pn (kip)	Num Bolts	Num Holes	Shear phiRnv (kip)	Bear phiRn (kip)	Blk Shear phit Pn (kip)	Use %	Controls
LEG	SAE - 6X6X0.75	80.86	0.9D + 1.6W 45 deg	33	55	250.67	0	0	0.00	0.00		32	Member
HORIZ	DAE - 2.5X2.5X0.25	9.67	1.2D + 1.6W Normal	33	55	60.10	4	2	71.57	63.53	39.24	24	Blk Shear
DIAG	DAE - 2.5X2.5X0.25	15.48	1.2D + 1.6W Normal	33	55	60.10	4	2	71.57	63.53	39.24	39	Blk Shear

Max Splice Forces	Pu (kip)	Load Case	phiRnt (kip)	Use %	Num Bolts	Bolt Type
Top Tension	80.55	0.9D + 1.6W 135 deg	0.00	0	0	
Top Compression	105.22	1.2D + 1.6W 135 deg	0.00	0		
Bot Tension	97.66	0.9D + 1.6W 135 deg	0.00	0		
Bot Compression	0.00		0.00	0		

Section: 4 1 Bot Elev (ft): 50.00 Height (ft): 12.500

Max Compression Member		Pu (kip)	Load Case	Len (ft)	Bracing % X	Y	Z	KL/R	F'y (ksi)	Phic Pn (kip)	Num Bolts	Num Holes	Shear phiRnv (kip)	Bear phiRn (kip)	Use %	Controls
LEG	SAE - 6X6X0.5625	-89.64	1.2D + 1.6W 135 deg	12.57	50	50	50	63.9	33.0	156.81	24	4	429.42	1,069.2	57	Member Z
HORIZ	DAE - 2.5X2.5X0.25	-7.13	1.2D + 1.6W Normal	8.260	100	100	20	126.8	33.0	32.53	4	2	71.57	79.20	21	Member X
DIAG	DAL - 2.5X2X0.25	-13.59	1.2D + 1.6W Normal	15.54	50	100	12	188.2	33.0	13.59	4	2	71.57	79.20	100	Member Y

Max Tension Member		Pu (kip)	Load Case	Fy (ksi)	Fu (ksi)	Phit Pn (kip)	Num Bolts	Num Holes	Shear phiRnv (kip)	Bear phiRn (kip)	Blk Shear phit Pn (kip)	Use %	Controls
LEG	SAE - 6X6X0.5625	66.95	0.9D + 1.6W 45 deg	33	55	184.03	24	4	429.42	1,051.57		36	Member
HORIZ	DAE - 2.5X2.5X0.25	7.10	1.2D + 1.6W Normal	33	55	60.10	4	2	71.57	63.53	39.24	18	Blk Shear
DIAG	DAL - 2.5X2X0.25	12.75	1.2D + 1.6W Normal	33	55	52.36	4	2	71.57	63.53	39.24	32	Blk Shear

Max Splice Forces	Pu (kip)	Load Case	phiRnt (kip)	Use %	Num Bolts	Bolt Type
Top Tension	66.74	0.9D + 1.6W 135 deg	0.00	0	0	
Top Compression	88.96	1.2D + 1.6W 135 deg	0.00	0		
Bot Tension	80.55	0.9D + 1.6W 135 deg	0.00	0		
Bot Compression	0.00		0.00	0		

Force/Stress Summary

Section: 5 1 **Bot Elev (ft): 62.50** **Height (ft): 12.500**

Max Compression Member		Pu (kip)	Load Case	Len (ft)	Bracing % X	Y	Z	KL/R	F'y (ksi)	Phic Pn (kip)	Num Bolts	Num Holes	Shear phiRnv (kip)	Bear phiRn (kip)	Use %	Controls
LEG	SAE - 6X6X0.5625	-70.61	1.2D + 1.6W 45 deg	12.55	50	50	50	63.8	33.0	156.91	0	0	0.00	0.00	45	Member Z
HORIZ	DAE - 2.5X2.5X0.25	-7.14	1.2D + 1.6W Normal	7.480	100	120	25	116.7	33.0	36.63	4	2	71.57	79.20	19	Member X
DIAG	DAL - 2.5X2X0.25	-14.53	1.2D + 1.6W Normal	15.00	50	100	12	182.6	33.0	14.44	4	2	71.57	79.20	100	Member Y

Max Tension Member		Pu (kip)	Load Case	Fy (ksi)	Fu (ksi)	Phit Pn (kip)	Num Bolts	Num Holes	Shear phiRnv (kip)	Bear phiRn (kip)	Blk Shear phit Pn (kip)	Use %	Controls
LEG	SAE - 6X6X0.5625	50.93	0.9D + 1.6W 45 deg	33	55	190.97	0	0	0.00	0.00		26	Member
HORIZ	DAE - 2.5X2.5X0.25	7.12	1.2D + 1.6W Normal	33	55	60.10	4	2	71.57	63.53	39.24	18	Blk Shear
DIAG	DAL - 2.5X2X0.25	13.75	1.2D + 1.6W Normal	33	55	52.36	4	2	71.57	63.53	39.24	35	Blk Shear

Max Splice Forces	Pu (kip)	Load Case	phiRnt (kip)	Use %	Num Bolts	Bolt Type
Top Tension	50.86	0.9D + 1.6W 135 deg	0.00	0	0	
Top Compression	70.69	1.2D + 1.6W 135 deg	0.00	0		
Bot Tension	66.74	0.9D + 1.6W 135 deg	0.00	0		
Bot Compression	0.00		0.00	0		

Section: 6 1 **Bot Elev (ft): 75.00** **Height (ft): 12.500**

Max Compression Member		Pu (kip)	Load Case	Len (ft)	Bracing % X	Y	Z	KL/R	F'y (ksi)	Phic Pn (kip)	Num Bolts	Num Holes	Shear phiRnv (kip)	Bear phiRn (kip)	Use %	Controls
LEG	SAE - 6X6X0.4375	-52.13	1.2D + 1.6W 135 deg	12.53	50	50	50	63.2	33.0	123.94	24	4	429.42	831.60	42	Member Z
HORIZ	DAE - 2.5X2.5X0.25	-6.16	0.9D + 1.6W Normal	6.830	100	107	33	106.6	33.0	40.86	4	2	71.57	79.20	15	Member X
DIAG	DAL - 2.5X2X0.25	-14.77	1.2D + 1.6W Normal	14.58	50	100	12	178.2	33.0	15.15	4	2	71.57	79.20	97	Member Y

Max Tension Member		Pu (kip)	Load Case	Fy (ksi)	Fu (ksi)	Phit Pn (kip)	Num Bolts	Num Holes	Shear phiRnv (kip)	Bear phiRn (kip)	Blk Shear phit Pn (kip)	Use %	Controls
LEG	SAE - 6X6X0.4375	34.27	0.9D + 1.6W 45 deg	33	55	145.56	24	4	429.42	817.88		23	Member
HORIZ	DAE - 2.5X2.5X0.25	7.55	1.2D + 1.6W Normal	33	55	60.10	4	2	71.57	63.53	39.24	19	Blk Shear
DIAG	DAL - 2.5X2X0.25	14.15	0.9D + 1.6W Normal	33	55	52.36	4	2	71.57	63.53	39.24	36	Blk Shear

Max Splice Forces	Pu (kip)	Load Case	phiRnt (kip)	Use %	Num Bolts	Bolt Type
Top Tension	34.26	0.9D + 1.6W 135 deg	0.00	0	0	
Top Compression	51.39	1.2D + 1.6W 135 deg	0.00	0		
Bot Tension	50.86	0.9D + 1.6W 135 deg	0.00	0		
Bot Compression	0.00		0.00	0		

Force/Stress Summary

Section: 7 1 **Bot Elev (ft): 87.50** **Height (ft): 10.170**

Max Compression Member	Pu (kip)	Load Case	Len (ft)	Bracing % X	Y	Z	KL/R	F'y (ksi)	Phic Pn (kip)	Num Bolts	Num Holes	Shear phiRnv (kip)	Bear phiRn (kip)	Use %	Controls
LEG SAE - 5X5X0.4375	-41.44	1.2D + 1.6W 45 deg	10.22	50	50	50	62.2	33.0	102.99	24	4	429.42	831.60	40	Member Z
HORIZ SAU - 3X2.5X0.25	-1.92	0.9D + 1.6W Normal	12.18	100	100	67	176.5	33.0	9.50	2	1	35.78	39.60	20	Member Y
DIAG SAE - 3.5X3.5X0.25	-8.29	1.2D + 1.6W Normal	16.45	50	50	50	138.0	33.0	20.03	2	1	35.78	39.60		Member Z

Max Tension Member	Pu (kip)	Load Case	Fy (ksi)	Fu (ksi)	Phit Pn (kip)	Num Bolts	Num Holes	Shear phiRnv (kip)	Bear phiRn (kip)	Blk Shear phit Pn (kip)	Use %	Controls
LEG SAE - 5X5X0.4375	27.77	0.9D + 1.6W 135 deg	33	55	109.26	24	4	429.42	817.88		25	Member
HORIZ SAU - 3X2.5X0.25	3.22	1.2D + 1.6W 90 deg	33	55	33.76	2	1	35.78	31.76	20.91	15	Blk Shear
DIAG SAE - 3.5X3.5X0.25	6.78	0.9D + 1.6W Normal	33	55	45.52	2	1	35.78	31.76	23.49	28	Blk Shear

Max Splice Forces	Pu (kip)	Load Case	phiRnt (kip)	Use %	Num Bolts	Bolt Type
Top Tension	21.88	0.9D + 1.6W 135 deg	0.00	0	0	
Top Compression	37.86	1.2D + 1.6W 135 deg	0.00	0		
Bot Tension	34.26	0.9D + 1.6W 135 deg	0.00	0		
Bot Compression	0.00		0.00	0		

Section: 8 1 **Bot Elev (ft): 97.67** **Height (ft): 10.170**

Max Compression Member	Pu (kip)	Load Case	Len (ft)	Bracing % X	Y	Z	KL/R	F'y (ksi)	Phic Pn (kip)	Num Bolts	Num Holes	Shear phiRnv (kip)	Bear phiRn (kip)	Use %	Controls
LEG SAE - 5X5X0.4375	-28.27	1.2D + 1.6W 135 deg	10.21	50	50	50	62.1	33.0	103.05	0	0	0.00	0.00	27	Member Z
HORIZ DAL - 3X2.5X0.25	-1.09	0.9D + 1.6W 45 deg	10.90	100	100	67	198.1	33.0	15.14	4	2	71.57	79.20	7	Member Y
DIAG SAE - 3.5X3.5X0.25	-8.35	1.2D + 1.6W Normal	15.39	50	50	50	130.9	33.0	21.95	2	1	35.78	39.60		Member Z

Max Tension Member	Pu (kip)	Load Case	Fy (ksi)	Fu (ksi)	Phit Pn (kip)	Num Bolts	Num Holes	Shear phiRnv (kip)	Bear phiRn (kip)	Blk Shear phit Pn (kip)	Use %	Controls
LEG SAE - 5X5X0.4375	15.18	0.9D + 1.6W 45 deg	33	55	124.15	0	0	0.00	0.00		12	Member
HORIZ DAL - 3X2.5X0.25	2.25	1.2D + 1.6W Normal	33	55	67.83	4	2	71.57	63.63	41.82	5	Blk Shear
DIAG SAE - 3.5X3.5X0.25	6.71	0.9D + 1.6W Normal	33	55	45.52	2	1	35.78	31.76	23.49	28	Blk Shear

Max Splice Forces	Pu (kip)	Load Case	phiRnt (kip)	Use %	Num Bolts	Bolt Type
Top Tension	9.22	0.9D + 1.6W 135 deg	0.00	0	0	
Top Compression	26.15	1.2D + 1.0Di + 1.0Wi	0.00	0		
Bot Tension	21.88	0.9D + 1.6W 135 deg	0.00	0		
Bot Compression	0.00		0.00	0		

Force/Stress Summary

Section: 9 1 **Bot Elev (ft): 107.8** **Height (ft): 8.580**

Max Compression Member	Pu (kip)	Load Case	Len (ft)	Bracing % X	Y	Z	KL/R	F'y (ksi)	Phic Pn (kip)	Num Bolts	Num Holes	Shear phiRnv (kip)	Bear phiRn (kip)	Use %	Controls
LEG SAE - 5X5X0.3125	-15.99	1.2D + 1.0Di + 1.0Wi	8.61	50	50	50	52.0	33.0	78.99	24	4	429.42	594.00	20	Member Z
HORIZ SAU - 3X2.5X0.25	-0.39	0.9D + 1.6W Normal	9.880	100	100	100	199.7	33.0	7.42	4	2	71.57	79.20	5	Member Z
DIAG SAE - 3X3X0.25	-5.53	1.2D + 1.6W Normal	13.48	50	50	50	132.7	33.0	18.27	2	1	35.78	39.60		Member Z

Max Tension Member	Pu (kip)	Load Case	Fy (ksi)	Fu (ksi)	Phit Pn (kip)	Num Bolts	Num Holes	Shear phiRnv (kip)	Bear phiRn (kip)	Blk Shear phit Pn (kip)	Use %	Controls
LEG SAE - 5X5X0.3125	6.06	0.9D + 1.6W 45 deg	33	55	79.87	24	4	429.42	584.20		7	Member
HORIZ SAU - 3X2.5X0.25	1.13	1.2D + 1.6W Normal	33	55	26.99	4	2	71.57	71.36	37.61	4	Member
DIAG SAE - 3X3X0.25	4.22	0.9D + 1.6W Normal	33	55	37.78	2	1	35.78	31.76	20.91	20	Blk Shear

Max Splice Forces	Pu (kip)	Load Case	phiRnt (kip)	Use %	Num Bolts	Bolt Type
Top Tension	1.66	0.9D + 1.6W 135 deg	0.00	0	0	
Top Compression	16.90	1.2D + 1.0Di + 1.0Wi	0.00	0		
Bot Tension	9.22	0.9D + 1.6W 135 deg	0.00	0		
Bot Compression	0.00		0.00	0		

Section: 10 1 **Bot Elev (ft): 116.4** **Height (ft): 8.580**

Max Compression Member	Pu (kip)	Load Case	Len (ft)	Bracing % X	Y	Z	KL/R	F'y (ksi)	Phic Pn (kip)	Num Bolts	Num Holes	Shear phiRnv (kip)	Bear phiRn (kip)	Use %	Controls
LEG SAE - 5X5X0.3125	-8.06	1.2D + 1.0Di + 1.0Wi	8.60	50	50	50	51.9	33.0	79.01	0	0	0.00	0.00	10	Member Z
HORIZ CHN - C8 x 11.5	-0.39	1.2D + 1.6W Normal	9.000	100	100	100	160.3	36.0	29.72	2	2	35.78	36.75	1	Member Y
DIAG SAE - 3X3X0.25	-3.75	1.2D + 1.6W Normal	12.76	50	50	50	127.2	33.0	19.60	2	1	35.78	39.60		Member Z

Max Tension Member	Pu (kip)	Load Case	Fy (ksi)	Fu (ksi)	Phit Pn (kip)	Num Bolts	Num Holes	Shear phiRnv (kip)	Bear phiRn (kip)	Blk Shear phit Pn (kip)	Use %	Controls
LEG SAE - 5X5X0.3125	1.10	0.9D + 1.6W 135 deg	33	55	89.99	0	0	0.00	0.00		1	Member
HORIZ CHN - C8 x 11.5	0.30	1.2D + 1.6W Normal	36	58	97.71	2	2	35.78	29.48	0.00	1	Bolt Bear
DIAG SAE - 3X3X0.25	3.00	0.9D + 1.6W 90 deg	33	55	37.78	2	1	35.78	31.76	20.91	14	Blk Shear

Max Splice Forces	Pu (kip)	Load Case	phiRnt (kip)	Use %	Num Bolts	Bolt Type
Top Tension	0.00		0.00	0	0	
Top Compression	8.64	1.2D + 1.0Di + 1.0Wi	0.00	0		
Bot Tension	1.66	0.9D + 1.6W 135 deg	0.00	0		
Bot Compression	0.00		0.00	0		

Detailed Reactions

Load Case	Radius (ft)	Elevation (ft)	Azimuth (deg)	Node	FX (kip)	FY (kip)	FZ (kip)	(-) = Uplift (+) = Down
1.2D + 1.6W Normal	17.15	00.00	45	1	-7.84	128.57	-19.10	
	17.15	00.00	135	1a	5.12	-88.75	-16.52	
	17.15	00.00	225	1b	-5.38	-89.18	-16.28	
	17.15	00.00	315	1c	8.11	128.13	-18.82	
1.2D + 1.6W 45 deg	17.15	00.00	45	1	-18.98	180.04	-19.38	
	17.15	00.00	135	1a	-9.71	20.12	-6.96	
	17.15	00.00	225	1b	-16.81	-140.64	-16.47	
	17.15	00.00	315	1c	-6.61	19.24	-9.31	
1.2D + 1.6W 90 deg	17.15	00.00	45	1	-18.82	128.62	-8.14	
	17.15	00.00	135	1a	-19.11	129.05	7.87	
	17.15	00.00	225	1b	-16.53	-89.23	-5.15	
	17.15	00.00	315	1c	-16.29	-89.67	5.41	
1.2D + 1.6W 135 deg	17.15	00.00	45	1	-9.50	19.70	6.77	
	17.15	00.00	135	1a	-19.19	180.47	19.19	
	17.15	00.00	225	1b	-6.77	19.67	9.50	
	17.15	00.00	315	1c	-16.65	-141.07	16.65	
1.2D + 1.6W 180 deg	17.15	00.00	45	1	5.15	-89.22	16.53	
	17.15	00.00	135	1a	-7.87	129.03	19.11	
	17.15	00.00	225	1b	8.13	128.60	18.82	
	17.15	00.00	315	1c	-5.41	-89.65	16.29	
1.2D + 1.6W 225 deg	17.15	00.00	45	1	16.46	-140.64	16.81	
	17.15	00.00	135	1a	6.96	20.10	9.71	
	17.15	00.00	225	1b	19.38	180.04	18.98	
	17.15	00.00	315	1c	9.32	19.26	6.61	
1.2D + 1.6W 270 deg	17.15	00.00	45	1	16.28	-89.19	5.38	
	17.15	00.00	135	1a	16.52	-88.77	-5.12	
	17.15	00.00	225	1b	19.10	128.58	7.85	
	17.15	00.00	315	1c	18.82	128.14	-8.11	
1.2D + 1.6W 315 deg	17.15	00.00	45	1	6.80	19.68	-9.52	
	17.15	00.00	135	1a	16.62	-140.22	-16.63	
	17.15	00.00	225	1b	9.53	19.70	-6.80	
	17.15	00.00	315	1c	19.17	179.60	-19.17	
0.9D + 1.6W Normal	17.15	00.00	45	1	-7.50	123.59	-18.76	
	17.15	00.00	135	1a	5.46	-93.73	-16.86	
	17.15	00.00	225	1b	-5.72	-94.05	-16.62	
	17.15	00.00	315	1c	7.77	123.26	-18.48	
0.9D + 1.6W 45 deg	17.15	00.00	45	1	-18.64	175.04	-19.03	
	17.15	00.00	135	1a	-9.37	15.09	-7.30	
	17.15	00.00	225	1b	-17.15	-145.49	-16.80	
	17.15	00.00	315	1c	-6.95	14.43	-8.98	
0.9D + 1.6W 90 deg	17.15	00.00	45	1	-18.48	123.60	-7.79	
	17.15	00.00	135	1a	-18.76	123.92	7.52	
	17.15	00.00	225	1b	-16.86	-94.06	-5.48	
	17.15	00.00	315	1c	-16.62	-94.39	5.74	
0.9D + 1.6W 135 deg	17.15	00.00	45	1	-9.16	14.77	7.12	
	17.15	00.00	135	1a	-18.85	175.36	18.85	
	17.15	00.00	225	1b	-7.12	14.75	9.16	
	17.15	00.00	315	1c	-16.98	-145.81	16.99	

0.9D + 1.6W 180 deg	17.15	00.00	45	1	5.48	-94.09	16.87
	17.15	00.00	135	1a	-7.53	123.95	18.77
	17.15	00.00	225	1b	7.79	123.63	18.49
	17.15	00.00	315	1c	-5.75	-94.42	16.63
0.9D + 1.6W 225 deg	17.15	00.00	45	1	16.80	-145.49	17.15
	17.15	00.00	135	1a	7.30	15.07	9.37
	17.15	00.00	225	1b	19.03	175.04	18.64
	17.15	00.00	315	1c	8.98	14.45	6.95
0.9D + 1.6W 270 deg	17.15	00.00	45	1	16.62	-94.06	5.72
	17.15	00.00	135	1a	16.86	-93.75	-5.46
	17.15	00.00	225	1b	18.76	123.61	7.51
	17.15	00.00	315	1c	18.48	123.28	-7.77
0.9D + 1.6W 315 deg	17.15	00.00	45	1	7.14	14.75	-9.18
	17.15	00.00	135	1a	16.97	-145.17	-16.97
	17.15	00.00	225	1b	9.18	14.78	-7.14
	17.15	00.00	315	1c	18.83	174.72	-18.83
1.2D + 1.0Di + 1.0Wi Normal	17.15	00.00	45	1	-5.78	88.98	-9.84
	17.15	00.00	135	1a	-1.49	17.52	-2.50
	17.15	00.00	225	1b	1.43	16.25	-2.51
	17.15	00.00	315	1c	5.85	87.68	-9.69
1.2D + 1.0Di + 1.0Wi 45 deg	17.15	00.00	45	1	-9.66	105.58	-9.84
	17.15	00.00	135	1a	-6.62	53.88	0.74
	17.15	00.00	225	1b	-2.50	-0.35	-2.49
	17.15	00.00	315	1c	0.75	51.31	-6.45
1.2D + 1.0Di + 1.0Wi 90 deg	17.15	00.00	45	1	-9.69	88.98	-5.93
	17.15	00.00	135	1a	-9.84	90.25	5.86
	17.15	00.00	225	1b	-2.50	16.24	1.42
	17.15	00.00	315	1c	-2.51	14.95	-1.35
1.2D + 1.0Di + 1.0Wi 135 deg	17.15	00.00	45	1	-6.49	52.62	-0.78
	17.15	00.00	135	1a	-9.79	106.85	9.79
	17.15	00.00	225	1b	0.78	52.61	6.49
	17.15	00.00	315	1c	-2.53	-1.65	2.53
1.2D + 1.0Di + 1.0Wi 180 deg	17.15	00.00	45	1	-1.42	16.25	2.50
	17.15	00.00	135	1a	-5.86	90.25	9.84
	17.15	00.00	225	1b	5.93	88.98	9.69
	17.15	00.00	315	1c	1.35	14.95	2.51
1.2D + 1.0Di + 1.0Wi 225 deg	17.15	00.00	45	1	2.49	-0.35	2.50
	17.15	00.00	135	1a	-0.74	53.88	6.62
	17.15	00.00	225	1b	9.84	105.58	9.67
	17.15	00.00	315	1c	6.45	51.32	-0.75
1.2D + 1.0Di + 1.0Wi 270 deg	17.15	00.00	45	1	2.51	16.24	-1.43
	17.15	00.00	135	1a	2.50	17.51	1.49
	17.15	00.00	225	1b	9.84	88.98	5.78
	17.15	00.00	315	1c	9.69	87.69	-5.85
1.2D + 1.0Di + 1.0Wi 315 deg	17.15	00.00	45	1	-0.71	52.61	-6.57
	17.15	00.00	135	1a	2.46	0.92	-2.46
	17.15	00.00	225	1b	6.57	52.62	0.71
	17.15	00.00	315	1c	9.71	104.28	-9.71
(1.2 + 0.2Sds) * DL + E Normal M1	17.15	00.00	45	1	-1.87	26.63	-2.53
	17.15	00.00	135	1a	-0.66	6.80	0.00
	17.15	00.00	225	1b	0.66	6.80	0.00
	17.15	00.00	315	1c	1.87	26.63	-2.53

(1.2 + 0.2Sds) * DL + E Normal M2	17.15	00.00	45	1	-1.83	26.09	-2.36
	17.15	00.00	135	1a	-0.69	7.35	0.16
	17.15	00.00	225	1b	0.69	7.35	0.16
	17.15	00.00	315	1c	1.83	26.09	-2.36
(1.2 + 0.2Sds) * DL + E 45 deg M1	17.15	00.00	45	1	-2.58	30.74	-2.58
	17.15	00.00	135	1a	-1.73	16.72	0.79
	17.15	00.00	225	1b	-0.06	2.70	-0.06
	17.15	00.00	315	1c	0.79	16.72	-1.73
(1.2 + 0.2Sds) * DL + E 45 deg M2	17.15	00.00	45	1	-2.44	29.97	-2.44
	17.15	00.00	135	1a	-1.64	16.72	0.89
	17.15	00.00	225	1b	0.08	3.46	0.08
	17.15	00.00	315	1c	0.89	16.72	-1.64
(1.2 + 0.2Sds) * DL + E 90 deg M1	17.15	00.00	45	1	-2.53	26.63	-1.87
	17.15	00.00	135	1a	-2.53	26.63	1.87
	17.15	00.00	225	1b	0.00	6.80	0.66
	17.15	00.00	315	1c	0.00	6.80	-0.66
(1.2 + 0.2Sds) * DL + E 90 deg M2	17.15	00.00	45	1	-2.36	26.09	-1.83
	17.15	00.00	135	1a	-2.36	26.09	1.83
	17.15	00.00	225	1b	0.16	7.35	0.69
	17.15	00.00	315	1c	0.16	7.35	-0.69
(1.2 + 0.2Sds) * DL + E 135 deg M1	17.15	00.00	45	1	-1.73	16.72	-0.79
	17.15	00.00	135	1a	-2.58	30.74	2.58
	17.15	00.00	225	1b	0.79	16.72	1.73
	17.15	00.00	315	1c	-0.06	2.70	0.06
(1.2 + 0.2Sds) * DL + E 135 deg M2	17.15	00.00	45	1	-1.64	16.72	-0.89
	17.15	00.00	135	1a	-2.44	29.97	2.44
	17.15	00.00	225	1b	0.89	16.72	1.64
	17.15	00.00	315	1c	0.08	3.46	-0.08
(1.2 + 0.2Sds) * DL + E 180 deg M1	17.15	00.00	45	1	-0.66	6.80	0.00
	17.15	00.00	135	1a	-1.87	26.63	2.53
	17.15	00.00	225	1b	1.87	26.63	2.53
	17.15	00.00	315	1c	0.66	6.80	0.00
(1.2 + 0.2Sds) * DL + E 180 deg M2	17.15	00.00	45	1	-0.69	7.35	-0.16
	17.15	00.00	135	1a	-1.83	26.09	2.36
	17.15	00.00	225	1b	1.83	26.09	2.36
	17.15	00.00	315	1c	0.69	7.35	-0.16
(1.2 + 0.2Sds) * DL + E 225 deg M1	17.15	00.00	45	1	0.06	2.70	0.06
	17.15	00.00	135	1a	-0.79	16.72	1.73
	17.15	00.00	225	1b	2.58	30.74	2.58
	17.15	00.00	315	1c	1.73	16.72	-0.79
(1.2 + 0.2Sds) * DL + E 225 deg M2	17.15	00.00	45	1	-0.08	3.46	-0.08
	17.15	00.00	135	1a	-0.89	16.72	1.64
	17.15	00.00	225	1b	2.44	29.97	2.44
	17.15	00.00	315	1c	1.64	16.72	-0.89
(1.2 + 0.2Sds) * DL + E 270 deg M1	17.15	00.00	45	1	0.00	6.80	-0.66
	17.15	00.00	135	1a	0.00	6.80	0.66
	17.15	00.00	225	1b	2.53	26.63	1.87
	17.15	00.00	315	1c	2.53	26.63	-1.87
(1.2 + 0.2Sds) * DL + E 270 deg M2	17.15	00.00	45	1	-0.16	7.35	-0.69
	17.15	00.00	135	1a	-0.16	7.35	0.69
	17.15	00.00	225	1b	2.36	26.09	1.83
	17.15	00.00	315	1c	2.36	26.09	-1.83
(1.2 + 0.2Sds) * DL + E 315 deg M1	17.15	00.00	45	1	-0.79	16.72	-1.73

	17.15	00.00	135	1a	0.06	2.70	-0.06
	17.15	00.00	225	1b	1.73	16.72	0.79
	17.15	00.00	315	1c	2.58	30.74	-2.58
(1.2 + 0.2Sds) * DL + E 315 deg M2	17.15	00.00	45	1	-0.89	16.72	-1.64
	17.15	00.00	135	1a	-0.08	3.46	0.08
	17.15	00.00	225	1b	1.64	16.72	0.89
	17.15	00.00	315	1c	2.44	29.97	-2.44
(0.9 - 0.2Sds) * DL + E Normal M1	17.15	00.00	45	1	-1.46	21.27	-2.12
	17.15	00.00	135	1a	-0.25	1.46	-0.41
	17.15	00.00	225	1b	0.25	1.46	-0.41
	17.15	00.00	315	1c	1.46	21.27	-2.12
(0.9 - 0.2Sds) * DL + E Normal M2	17.15	00.00	45	1	-1.43	20.73	-1.96
	17.15	00.00	135	1a	-0.29	2.00	-0.24
	17.15	00.00	225	1b	0.29	2.00	-0.24
	17.15	00.00	315	1c	1.43	20.73	-1.96
(0.9 - 0.2Sds) * DL + E 45 deg M1	17.15	00.00	45	1	-2.18	25.38	-2.18
	17.15	00.00	135	1a	-1.33	11.36	0.39
	17.15	00.00	225	1b	-0.46	-2.65	-0.46
	17.15	00.00	315	1c	0.39	11.36	-1.33
(0.9 - 0.2Sds) * DL + E 45 deg M2	17.15	00.00	45	1	-2.04	24.61	-2.04
	17.15	00.00	135	1a	-1.23	11.36	0.48
	17.15	00.00	225	1b	-0.32	-1.88	-0.32
	17.15	00.00	315	1c	0.48	11.36	-1.23
(0.9 - 0.2Sds) * DL + E 90 deg M1	17.15	00.00	45	1	-2.12	21.27	-1.46
	17.15	00.00	135	1a	-2.12	21.27	1.46
	17.15	00.00	225	1b	-0.41	1.46	0.25
	17.15	00.00	315	1c	-0.41	1.46	-0.25
(0.9 - 0.2Sds) * DL + E 90 deg M2	17.15	00.00	45	1	-1.96	20.73	-1.43
	17.15	00.00	135	1a	-1.96	20.73	1.43
	17.15	00.00	225	1b	-0.24	2.00	0.29
	17.15	00.00	315	1c	-0.24	2.00	-0.29
(0.9 - 0.2Sds) * DL + E 135 deg M1	17.15	00.00	45	1	-1.33	11.36	-0.39
	17.15	00.00	135	1a	-2.18	25.38	2.18
	17.15	00.00	225	1b	0.39	11.36	1.33
	17.15	00.00	315	1c	-0.46	-2.65	0.46
(0.9 - 0.2Sds) * DL + E 135 deg M2	17.15	00.00	45	1	-1.23	11.36	-0.48
	17.15	00.00	135	1a	-2.04	24.61	2.04
	17.15	00.00	225	1b	0.48	11.36	1.23
	17.15	00.00	315	1c	-0.32	-1.88	0.32
(0.9 - 0.2Sds) * DL + E 180 deg M1	17.15	00.00	45	1	-0.25	1.46	0.41
	17.15	00.00	135	1a	-1.46	21.27	2.12
	17.15	00.00	225	1b	1.46	21.27	2.12
	17.15	00.00	315	1c	0.25	1.46	0.41
(0.9 - 0.2Sds) * DL + E 180 deg M2	17.15	00.00	45	1	-0.29	2.00	0.24
	17.15	00.00	135	1a	-1.43	20.73	1.96
	17.15	00.00	225	1b	1.43	20.73	1.96
	17.15	00.00	315	1c	0.29	2.00	0.24
(0.9 - 0.2Sds) * DL + E 225 deg M1	17.15	00.00	45	1	0.46	-2.65	0.46
	17.15	00.00	135	1a	-0.39	11.36	1.33
	17.15	00.00	225	1b	2.18	25.38	2.18
	17.15	00.00	315	1c	1.33	11.36	-0.39
(0.9 - 0.2Sds) * DL + E 225 deg M2	17.15	00.00	45	1	0.32	-1.88	0.32
	17.15	00.00	135	1a	-0.48	11.36	1.23

	17.15	00.00	225	1b	2.04	24.61	2.04
	17.15	00.00	315	1c	1.23	11.36	-0.48
(0.9 - 0.2Sds) * DL + E 270 deg M1	17.15	00.00	45	1	0.41	1.46	-0.25
	17.15	00.00	135	1a	0.41	1.46	0.25
	17.15	00.00	225	1b	2.12	21.27	1.46
	17.15	00.00	315	1c	2.12	21.27	-1.46
(0.9 - 0.2Sds) * DL + E 270 deg M2	17.15	00.00	45	1	0.24	2.00	-0.29
	17.15	00.00	135	1a	0.24	2.00	0.29
	17.15	00.00	225	1b	1.96	20.73	1.43
	17.15	00.00	315	1c	1.96	20.73	-1.43
(0.9 - 0.2Sds) * DL + E 315 deg M1	17.15	00.00	45	1	-0.39	11.36	-1.33
	17.15	00.00	135	1a	0.46	-2.65	-0.46
	17.15	00.00	225	1b	1.33	11.36	0.39
	17.15	00.00	315	1c	2.18	25.38	-2.18
(0.9 - 0.2Sds) * DL + E 315 deg M2	17.15	00.00	45	1	-0.48	11.36	-1.23
	17.15	00.00	135	1a	0.32	-1.88	-0.32
	17.15	00.00	225	1b	1.23	11.36	0.48
	17.15	00.00	315	1c	2.04	24.61	-2.04
1.0D + 1.0W Service Normal	17.15	00.00	45	1	-2.93	46.64	-6.09
	17.15	00.00	135	1a	0.66	-13.47	-3.81
	17.15	00.00	225	1b	-0.73	-13.82	-3.76
	17.15	00.00	315	1c	3.00	46.28	-5.99
1.0D + 1.0W Service 45 deg	17.15	00.00	45	1	-6.03	60.86	-6.16
	17.15	00.00	135	1a	-3.46	16.77	-1.17
	17.15	00.00	225	1b	-3.88	-28.04	-3.80
	17.15	00.00	315	1c	-1.09	16.05	-3.33
1.0D + 1.0W Service 90 deg	17.15	00.00	45	1	-5.99	46.65	-3.02
	17.15	00.00	135	1a	-6.09	47.00	2.95
	17.15	00.00	225	1b	-3.81	-13.83	-0.68
	17.15	00.00	315	1c	-3.76	-14.19	0.75
1.0D + 1.0W Service 135 deg	17.15	00.00	45	1	-3.38	16.41	1.12
	17.15	00.00	135	1a	-6.10	61.21	6.10
	17.15	00.00	225	1b	-1.12	16.41	3.38
	17.15	00.00	315	1c	-3.85	-28.40	3.85
1.0D + 1.0W Service 180 deg	17.15	00.00	45	1	0.68	-13.82	3.81
	17.15	00.00	135	1a	-2.95	47.00	6.09
	17.15	00.00	225	1b	3.02	46.64	5.99
	17.15	00.00	315	1c	-0.75	-14.18	3.76
1.0D + 1.0W Service 225 deg	17.15	00.00	45	1	3.80	-28.04	3.88
	17.15	00.00	135	1a	1.17	16.76	3.46
	17.15	00.00	225	1b	6.16	60.86	6.03
	17.15	00.00	315	1c	3.33	16.05	1.09
1.0D + 1.0W Service 270 deg	17.15	00.00	45	1	3.76	-13.83	0.73
	17.15	00.00	135	1a	3.81	-13.47	-0.66
	17.15	00.00	225	1b	6.09	46.65	2.93
	17.15	00.00	315	1c	5.99	46.28	-3.00
1.0D + 1.0W Service 315 deg	17.15	00.00	45	1	1.14	16.41	-3.41
	17.15	00.00	135	1a	3.83	-27.68	-3.83
	17.15	00.00	225	1b	3.41	16.41	-1.14
	17.15	00.00	315	1c	6.08	60.50	-6.08

Site Number:	**88166**	**Code:**	**ANSI/TIA-222-G**		
Site Name:	**SOUTH SALEM NY, NY**	**Engineering Number:**	**12936321_C3_01**		6/13/2019 1:24:26 PM
Customer:	**VERIZON WIRELESS**				

Max Uplift:	**145.81 (kip)**	**Moment Ice:**	**1,860.40 (kip-ft)**	**Moment:**	**5,513.58 (kip-ft)**	**1.2D + 1.6W 135 deg**
Max Down:	**180.47 (kip)**	**Total Down Ice:**	**210.43 (kip)**	**Total Down:**	**78.76 (kip)**	
Max Shear:	**27.14 (kip)**	**Total Shear Ice:**	**25.50 (kip)**	**Total Shear:**	**73.70 (kip)**	

Deflections and Rotations

Load Case	Elevation (ft)	Deflection (ft)	Twist (deg)	Sway (deg)	Resultant (deg)
90 mph Normal with No Ice	25.00	0.020	0.0017	0.0646	0.0646
90 mph Normal with No Ice	50.00	0.054	-0.0013	0.0961	0.0961
90 mph Normal with No Ice	75.00	0.104	-0.0029	0.1364	0.1364
90 mph Normal with No Ice	87.50	0.135	-0.0042	0.1487	0.1488
90 mph Normal with No Ice	107.84	0.191	-0.0088	0.1663	0.1666
90 mph Normal with No Ice	116.42	0.217	-0.0099	0.1718	0.1721
90 mph Normal with No Ice	125.00	0.242	-0.0117	0.1546	0.1550
90 mph 45 degree with No Ice	25.00	0.021	0.0030	0.0694	0.0695
90 mph 45 degree with No Ice	50.00	0.056	-0.0051	0.0995	0.0995
90 mph 45 degree with No Ice	75.00	0.109	-0.0078	0.1427	0.1427
90 mph 45 degree with No Ice	87.50	0.142	-0.0096	0.1558	0.1561
90 mph 45 degree with No Ice	107.84	0.201	-0.0140	0.1775	0.1779
90 mph 45 degree with No Ice	116.42	0.227	-0.0150	0.1785	0.1790
90 mph 45 degree with No Ice	125.00	0.254	-0.0163	0.1752	0.1759
90 mph 90 degree with No Ice	25.00	0.020	-0.0038	0.0643	0.0644
90 mph 90 degree with No Ice	50.00	0.054	-0.0058	0.0936	0.0937
90 mph 90 degree with No Ice	75.00	0.104	-0.0081	0.1371	0.1371
90 mph 90 degree with No Ice	87.50	0.136	-0.0093	0.1504	0.1504
90 mph 90 degree with No Ice	107.84	0.193	-0.0110	0.1705	0.1707
90 mph 90 degree with No Ice	116.42	0.219	-0.0113	0.1703	0.1706
90 mph 90 degree with No Ice	125.00	0.244	-0.0115	0.1804	0.1808
90 mph 135 degree with No Ice	25.00	0.021	-0.0040	0.0679	0.0680
90 mph 135 degree with No Ice	50.00	0.056	-0.0035	0.0984	0.0985
90 mph 135 degree with No Ice	75.00	0.108	-0.0041	0.1423	0.1423
90 mph 135 degree with No Ice	87.50	0.141	-0.0039	0.1569	0.1569
90 mph 135 degree with No Ice	107.84	0.200	-0.0017	0.1783	0.1783
90 mph 135 degree with No Ice	116.42	0.227	0.0012	0.1798	0.1798
90 mph 135 degree with No Ice	125.00	0.254	0.0000	0.1779	0.1779
90 mph 180 degree with No Ice	25.00	0.020	0.0035	0.0646	0.0646
90 mph 180 degree with No Ice	50.00	0.054	0.0049	0.0965	0.0965
90 mph 180 degree with No Ice	75.00	0.104	0.0076	0.1374	0.1374
90 mph 180 degree with No Ice	87.50	0.136	0.0082	0.1503	0.1503
90 mph 180 degree with No Ice	107.84	0.193	0.0113	0.1693	0.1695
90 mph 180 degree with No Ice	116.42	0.219	0.0118	0.1753	0.1756
90 mph 180 degree with No Ice	125.00	0.244	0.0119	0.1584	0.1588
90 mph 225 degree with No Ice	25.00	0.021	0.0051	0.0694	0.0695
90 mph 225 degree with No Ice	50.00	0.056	0.0070	0.0994	0.0994
90 mph 225 degree with No Ice	75.00	0.109	0.0109	0.1427	0.1427
90 mph 225 degree with No Ice	87.50	0.142	0.0095	0.1558	0.1560
90 mph 225 degree with No Ice	107.84	0.201	0.0159	0.1775	0.1779
90 mph 225 degree with No Ice	116.42	0.227	0.0164	0.1785	0.1790
90 mph 225 degree with No Ice	125.00	0.254	0.0168	0.1754	0.1761
90 mph 270 degree with No Ice	25.00	0.020	0.0039	0.0644	0.0644
90 mph 270 degree with No Ice	50.00	0.054	0.0060	0.0930	0.0930
90 mph 270 degree with No Ice	75.00	0.104	0.0083	0.1361	0.1361
90 mph 270 degree with No Ice	87.50	0.135	0.0094	0.1488	0.1489
90 mph 270 degree with No Ice	107.84	0.191	0.0112	0.1676	0.1678
90 mph 270 degree with No Ice	116.42	0.217	0.0114	0.1668	0.1671
90 mph 270 degree with No Ice	125.00	0.242	0.0118	0.1767	0.1771
90 mph 315 degree with No Ice	25.00	0.021	0.0040	0.0680	0.0681
90 mph 315 degree with No Ice	50.00	0.056	0.0034	0.0979	0.0979
90 mph 315 degree with No Ice	75.00	0.107	0.0040	0.1411	0.1411
90 mph 315 degree with No Ice	87.50	0.140	0.0038	0.1543	0.1543
90 mph 315 degree with No Ice	107.84	0.198	0.0016	0.1742	0.1742
90 mph 315 degree with No Ice	116.42	0.224	0.0011	0.1749	0.1750

90 mph 315 degree with No Ice	125.00	0.250	-0.0001	0.1725	0.1725
90 mph Normal with No Ice (Reduced DL)	25.00	0.020	0.0017	0.0645	0.0645
90 mph Normal with No Ice (Reduced DL)	50.00	0.054	-0.0013	0.0961	0.0961
90 mph Normal with No Ice (Reduced DL)	75.00	0.104	-0.0029	0.1364	0.1364
90 mph Normal with No Ice (Reduced DL)	87.50	0.135	-0.0042	0.1487	0.1488
90 mph Normal with No Ice (Reduced DL)	107.84	0.191	-0.0088	0.1665	0.1667
90 mph Normal with No Ice (Reduced DL)	116.42	0.217	-0.0099	0.1721	0.1723
90 mph Normal with No Ice (Reduced DL)	125.00	0.242	-0.0117	0.1550	0.1555
90 mph 45 deg with No Ice (Reduced DL)	25.00	0.021	0.0030	0.0694	0.0694
90 mph 45 deg with No Ice (Reduced DL)	50.00	0.056	-0.0051	0.0994	0.0994
90 mph 45 deg with No Ice (Reduced DL)	75.00	0.109	-0.0078	0.1426	0.1426
90 mph 45 deg with No Ice (Reduced DL)	87.50	0.141	-0.0095	0.1556	0.1559
90 mph 45 deg with No Ice (Reduced DL)	107.84	0.201	-0.0139	0.1773	0.1777
90 mph 45 deg with No Ice (Reduced DL)	116.42	0.227	-0.0150	0.1783	0.1789
90 mph 45 deg with No Ice (Reduced DL)	125.00	0.253	-0.0163	0.1750	0.1757
90 mph 90 deg with No Ice (Reduced DL)	25.00	0.020	-0.0038	0.0642	0.0643
90 mph 90 deg with No Ice (Reduced DL)	50.00	0.054	-0.0059	0.0934	0.0936
90 mph 90 deg with No Ice (Reduced DL)	75.00	0.104	-0.0082	0.1368	0.1368
90 mph 90 deg with No Ice (Reduced DL)	87.50	0.136	-0.0093	0.1500	0.1500
90 mph 90 deg with No Ice (Reduced DL)	107.84	0.193	-0.0110	0.1698	0.1701
90 mph 90 deg with No Ice (Reduced DL)	116.42	0.218	-0.0113	0.1696	0.1699
90 mph 90 deg with No Ice (Reduced DL)	125.00	0.244	-0.0115	0.1797	0.1800
90 mph 135 deg with No Ice (Reduced DL)	25.00	0.021	-0.0040	0.0679	0.0680
90 mph 135 deg with No Ice (Reduced DL)	50.00	0.056	-0.0035	0.0983	0.0983
90 mph 135 deg with No Ice (Reduced DL)	75.00	0.107	-0.0041	0.1421	0.1421
90 mph 135 deg with No Ice (Reduced DL)	87.50	0.141	-0.0039	0.1564	0.1564
90 mph 135 deg with No Ice (Reduced DL)	107.84	0.200	-0.0017	0.1776	0.1776
90 mph 135 deg with No Ice (Reduced DL)	116.42	0.226	0.0012	0.1791	0.1791
90 mph 135 deg with No Ice (Reduced DL)	125.00	0.253	0.0000	0.1770	0.1770
90 mph 180 deg with No Ice (Reduced DL)	25.00	0.020	0.0035	0.0645	0.0645
90 mph 180 deg with No Ice (Reduced DL)	50.00	0.054	0.0049	0.0964	0.0964
90 mph 180 deg with No Ice (Reduced DL)	75.00	0.104	0.0076	0.1371	0.1372
90 mph 180 deg with No Ice (Reduced DL)	87.50	0.136	0.0082	0.1499	0.1500
90 mph 180 deg with No Ice (Reduced DL)	107.84	0.193	0.0113	0.1687	0.1689
90 mph 180 deg with No Ice (Reduced DL)	116.42	0.218	0.0118	0.1747	0.1750
90 mph 180 deg with No Ice (Reduced DL)	125.00	0.244	0.0119	0.1579	0.1583
90 mph 225 deg with No Ice (Reduced DL)	25.00	0.021	0.0051	0.0694	0.0694
90 mph 225 deg with No Ice (Reduced DL)	50.00	0.056	0.0070	0.0993	0.0993
90 mph 225 deg with No Ice (Reduced DL)	75.00	0.109	0.0109	0.1426	0.1426
90 mph 225 deg with No Ice (Reduced DL)	87.50	0.141	0.0095	0.1556	0.1558
90 mph 225 deg with No Ice (Reduced DL)	107.84	0.201	0.0159	0.1773	0.1777
90 mph 225 deg with No Ice (Reduced DL)	116.42	0.227	0.0164	0.1783	0.1788
90 mph 225 deg with No Ice (Reduced DL)	125.00	0.253	0.0168	0.1753	0.1760
90 mph 270 deg with No Ice (Reduced DL)	25.00	0.020	0.0039	0.0643	0.0643
90 mph 270 deg with No Ice (Reduced DL)	50.00	0.054	0.0060	0.0930	0.0930
90 mph 270 deg with No Ice (Reduced DL)	75.00	0.104	0.0083	0.1361	0.1361
90 mph 270 deg with No Ice (Reduced DL)	87.50	0.135	0.0094	0.1489	0.1489
90 mph 270 deg with No Ice (Reduced DL)	107.84	0.192	0.0112	0.1677	0.1679
90 mph 270 deg with No Ice (Reduced DL)	116.42	0.217	0.0113	0.1670	0.1673
90 mph 270 deg with No Ice (Reduced DL)	125.00	0.242	0.0117	0.1769	0.1773
90 mph 315 deg with No Ice (Reduced DL)	25.00	0.021	0.0040	0.0679	0.0680
90 mph 315 deg with No Ice (Reduced DL)	50.00	0.056	0.0034	0.0979	0.0980
90 mph 315 deg with No Ice (Reduced DL)	75.00	0.107	0.0040	0.1411	0.1411
90 mph 315 deg with No Ice (Reduced DL)	87.50	0.140	0.0038	0.1545	0.1545
90 mph 315 deg with No Ice (Reduced DL)	107.84	0.198	0.0017	0.1745	0.1745
90 mph 315 deg with No Ice (Reduced DL)	116.42	0.224	0.0011	0.1754	0.1754
90 mph 315 deg with No Ice (Reduced DL)	125.00	0.250	-0.0001	0.1730	0.1730
50 mph Normal with 0.75 in Radial Ice	25.00	0.009	0.0007	0.0278	0.0278
50 mph Normal with 0.75 in Radial Ice	50.00	0.020	-0.0002	0.0319	0.0319
50 mph Normal with 0.75 in Radial Ice	75.00	0.035	-0.0006	0.0426	0.0426
50 mph Normal with 0.75 in Radial Ice	87.50	0.045	-0.0011	0.0455	0.0455
50 mph Normal with 0.75 in Radial Ice	107.84	0.061	-0.0023	0.0491	0.0491

50 mph Normal with 0.75 in Radial Ice	116.42	0.068	-0.0026	0.0497	0.0498
50 mph Normal with 0.75 in Radial Ice	125.00	0.075	-0.0030	0.0441	0.0442
50 mph 45 deg with 0.75 in Radial Ice	25.00	0.010	0.0012	0.0295	0.0295
50 mph 45 deg with 0.75 in Radial Ice	50.00	0.021	-0.0014	0.0328	0.0328
50 mph 45 deg with 0.75 in Radial Ice	75.00	0.037	-0.0021	0.0448	0.0448
50 mph 45 deg with 0.75 in Radial Ice	87.50	0.047	-0.0026	0.0485	0.0486
50 mph 45 deg with 0.75 in Radial Ice	107.84	0.065	-0.0037	0.0542	0.0543
50 mph 45 deg with 0.75 in Radial Ice	116.42	0.073	-0.0039	0.0549	0.0550
50 mph 45 deg with 0.75 in Radial Ice	125.00	0.081	-0.0042	0.0547	0.0549
50 mph 90 deg with 0.75 in Radial Ice	25.00	0.009	-0.0013	0.0276	0.0276
50 mph 90 deg with 0.75 in Radial Ice	50.00	0.020	-0.0018	0.0321	0.0321
50 mph 90 deg with 0.75 in Radial Ice	75.00	0.036	-0.0024	0.0451	0.0451
50 mph 90 deg with 0.75 in Radial Ice	87.50	0.046	-0.0027	0.0499	0.0499
50 mph 90 deg with 0.75 in Radial Ice	107.84	0.065	-0.0030	0.0580	0.0581
50 mph 90 deg with 0.75 in Radial Ice	116.42	0.074	-0.0030	0.0584	0.0584
50 mph 90 deg with 0.75 in Radial Ice	125.00	0.083	-0.0030	0.0628	0.0629
50 mph 135 deg with 0.75 in Radial Ice	25.00	0.010	-0.0014	0.0293	0.0293
50 mph 135 deg with 0.75 in Radial Ice	50.00	0.021	-0.0012	0.0335	0.0335
50 mph 135 deg with 0.75 in Radial Ice	75.00	0.038	-0.0014	0.0465	0.0465
50 mph 135 deg with 0.75 in Radial Ice	87.50	0.047	-0.0013	0.0517	0.0517
50 mph 135 deg with 0.75 in Radial Ice	107.84	0.068	-0.0006	0.0599	0.0599
50 mph 135 deg with 0.75 in Radial Ice	116.42	0.077	0.0005	0.0618	0.0618
50 mph 135 deg with 0.75 in Radial Ice	125.00	0.086	0.0000	0.0622	0.0622
50 mph 180 deg with 0.75 in Radial Ice	25.00	0.009	0.0012	0.0277	0.0277
50 mph 180 deg with 0.75 in Radial Ice	50.00	0.020	0.0014	0.0330	0.0330
50 mph 180 deg with 0.75 in Radial Ice	75.00	0.036	0.0021	0.0452	0.0452
50 mph 180 deg with 0.75 in Radial Ice	87.50	0.046	0.0024	0.0498	0.0498
50 mph 180 deg with 0.75 in Radial Ice	107.84	0.065	0.0030	0.0576	0.0577
50 mph 180 deg with 0.75 in Radial Ice	116.42	0.074	0.0032	0.0600	0.0600
50 mph 180 deg with 0.75 in Radial Ice	125.00	0.083	0.0030	0.0556	0.0556
50 mph 225 deg with 0.75 in Radial Ice	25.00	0.010	0.0017	0.0295	0.0295
50 mph 225 deg with 0.75 in Radial Ice	50.00	0.021	0.0021	0.0328	0.0329
50 mph 225 deg with 0.75 in Radial Ice	75.00	0.037	0.0030	0.0448	0.0448
50 mph 225 deg with 0.75 in Radial Ice	87.50	0.047	0.0023	0.0485	0.0486
50 mph 225 deg with 0.75 in Radial Ice	107.84	0.065	0.0041	0.0542	0.0543
50 mph 225 deg with 0.75 in Radial Ice	116.42	0.073	0.0042	0.0551	0.0552
50 mph 225 deg with 0.75 in Radial Ice	125.00	0.081	0.0043	0.0537	0.0539
50 mph 270 deg with 0.75 in Radial Ice	25.00	0.009	0.0013	0.0278	0.0278
50 mph 270 deg with 0.75 in Radial Ice	50.00	0.020	0.0018	0.0309	0.0309
50 mph 270 deg with 0.75 in Radial Ice	75.00	0.035	0.0023	0.0425	0.0425
50 mph 270 deg with 0.75 in Radial Ice	87.50	0.045	0.0024	0.0455	0.0455
50 mph 270 deg with 0.75 in Radial Ice	107.84	0.061	0.0029	0.0495	0.0495
50 mph 270 deg with 0.75 in Radial Ice	116.42	0.068	0.0029	0.0481	0.0482
50 mph 270 deg with 0.75 in Radial Ice	125.00	0.076	0.0030	0.0512	0.0513
50 mph 315 deg with 0.75 in Radial Ice	25.00	0.010	0.0015	0.0297	0.0297
50 mph 315 deg with 0.75 in Radial Ice	50.00	0.021	0.0012	0.0321	0.0321
50 mph 315 deg with 0.75 in Radial Ice	75.00	0.037	0.0012	0.0428	0.0428
50 mph 315 deg with 0.75 in Radial Ice	87.50	0.046	0.0010	0.0445	0.0445
50 mph 315 deg with 0.75 in Radial Ice	107.84	0.062	0.0004	0.0476	0.0476
50 mph 315 deg with 0.75 in Radial Ice	116.42	0.069	0.0002	0.0472	0.0472
50 mph 315 deg with 0.75 in Radial Ice	125.00	0.076	0.0000	0.0459	0.0459
Seismic Normal M1	25.00	0.001	0.0002	0.0052	0.0052
Seismic Normal M1	50.00	0.005	0.0003	0.0094	0.0094
Seismic Normal M1	75.00	0.010	0.0003	0.0141	0.0141
Seismic Normal M1	87.50	0.013	0.0003	0.0157	0.0157
Seismic Normal M1	107.84	0.019	0.0001	0.0180	0.0180
Seismic Normal M1	116.42	0.022	0.0001	0.0176	0.0176
Seismic Normal M1	125.00	0.024	0.0000	0.0168	0.0168
Seismic Normal M2	25.00	0.001	0.0002	0.0044	0.0044
Seismic Normal M2	50.00	0.004	0.0002	0.0090	0.0090
Seismic Normal M2	75.00	0.009	0.0003	0.0142	0.0142
Seismic Normal M2	87.50	0.012	0.0003	0.0163	0.0163

Seismic Normal M2	107.84	0.019	0.0002	0.0195	0.0195
Seismic Normal M2	116.42	0.022	0.0001	0.0192	0.0192
Seismic Normal M2	125.00	0.024	0.0000	0.0183	0.0183
Seismic 45 deg M1	25.00	0.001	0.0003	0.0051	0.0051
Seismic 45 deg M1	50.00	0.005	0.0004	0.0094	0.0094
Seismic 45 deg M1	75.00	0.010	0.0005	0.0142	0.0142
Seismic 45 deg M1	87.50	0.013	0.0004	0.0158	0.0158
Seismic 45 deg M1	107.84	0.019	0.0002	0.0179	0.0179
Seismic 45 deg M1	116.42	0.022	0.0001	0.0176	0.0176
Seismic 45 deg M1	125.00	0.024	0.0000	0.0168	0.0168
Seismic 45 deg M2	25.00	0.001	0.0002	0.0044	0.0044
Seismic 45 deg M2	50.00	0.004	0.0004	0.0090	0.0090
Seismic 45 deg M2	75.00	0.009	0.0005	0.0143	0.0143
Seismic 45 deg M2	87.50	0.013	0.0005	0.0164	0.0164
Seismic 45 deg M2	107.84	0.019	0.0002	0.0194	0.0194
Seismic 45 deg M2	116.42	0.022	0.0001	0.0192	0.0192
Seismic 45 deg M2	125.00	0.024	0.0000	0.0183	0.0183
Seismic 90 deg M1	25.00	0.001	0.0002	0.0052	0.0052
Seismic 90 deg M1	50.00	0.005	0.0003	0.0094	0.0094
Seismic 90 deg M1	75.00	0.010	0.0003	0.0141	0.0141
Seismic 90 deg M1	87.50	0.013	0.0003	0.0157	0.0157
Seismic 90 deg M1	107.84	0.019	0.0001	0.0180	0.0180
Seismic 90 deg M1	116.42	0.022	0.0001	0.0176	0.0176
Seismic 90 deg M1	125.00	0.024	0.0000	0.0168	0.0168
Seismic 90 deg M2	25.00	0.001	0.0002	0.0044	0.0044
Seismic 90 deg M2	50.00	0.004	0.0002	0.0090	0.0090
Seismic 90 deg M2	75.00	0.009	0.0003	0.0142	0.0142
Seismic 90 deg M2	87.50	0.012	0.0003	0.0163	0.0163
Seismic 90 deg M2	107.84	0.019	0.0002	0.0195	0.0195
Seismic 90 deg M2	116.42	0.022	0.0001	0.0192	0.0192
Seismic 90 deg M2	125.00	0.024	0.0000	0.0183	0.0183
Seismic 135 deg M1	25.00	0.001	-0.0003	0.0051	0.0051
Seismic 135 deg M1	50.00	0.005	-0.0004	0.0094	0.0094
Seismic 135 deg M1	75.00	0.010	-0.0005	0.0142	0.0142
Seismic 135 deg M1	87.50	0.013	0.0004	0.0158	0.0158
Seismic 135 deg M1	107.84	0.019	0.0002	0.0179	0.0179
Seismic 135 deg M1	116.42	0.022	-0.0001	0.0176	0.0176
Seismic 135 deg M1	125.00	0.024	0.0000	0.0168	0.0168
Seismic 135 deg M2	25.00	0.001	-0.0002	0.0044	0.0044
Seismic 135 deg M2	50.00	0.004	-0.0004	0.0090	0.0090
Seismic 135 deg M2	75.00	0.009	0.0005	0.0143	0.0143
Seismic 135 deg M2	87.50	0.013	-0.0005	0.0164	0.0164
Seismic 135 deg M2	107.84	0.019	-0.0002	0.0194	0.0194
Seismic 135 deg M2	116.42	0.022	-0.0001	0.0192	0.0192
Seismic 135 deg M2	125.00	0.024	0.0000	0.0183	0.0183
Seismic 180 deg M1	25.00	0.001	-0.0002	0.0052	0.0052
Seismic 180 deg M1	50.00	0.005	-0.0003	0.0094	0.0094
Seismic 180 deg M1	75.00	0.010	-0.0003	0.0141	0.0141
Seismic 180 deg M1	87.50	0.013	-0.0003	0.0157	0.0157
Seismic 180 deg M1	107.84	0.019	-0.0001	0.0180	0.0180
Seismic 180 deg M1	116.42	0.022	0.0001	0.0176	0.0176
Seismic 180 deg M1	125.00	0.024	0.0000	0.0168	0.0168
Seismic 180 deg M2	25.00	0.001	-0.0002	0.0044	0.0044
Seismic 180 deg M2	50.00	0.004	-0.0002	0.0090	0.0090
Seismic 180 deg M2	75.00	0.009	-0.0003	0.0142	0.0142
Seismic 180 deg M2	87.50	0.012	-0.0003	0.0163	0.0163
Seismic 180 deg M2	107.84	0.019	-0.0002	0.0195	0.0195
Seismic 180 deg M2	116.42	0.022	-0.0001	0.0192	0.0192
Seismic 180 deg M2	125.00	0.024	0.0000	0.0183	0.0183
Seismic 225 deg M1	25.00	0.001	0.0003	0.0051	0.0051
Seismic 225 deg M1	50.00	0.005	0.0004	0.0094	0.0094
Seismic 225 deg M1	75.00	0.010	0.0005	0.0142	0.0142

Seismic 225 deg M1	87.50	0.013	0.0000	0.0158	0.0158
Seismic 225 deg M1	107.84	0.019	0.0002	0.0179	0.0179
Seismic 225 deg M1	116.42	0.022	0.0001	0.0176	0.0176
Seismic 225 deg M1	125.00	0.024	0.0000	0.0168	0.0168
Seismic 225 deg M2	25.00	0.001	0.0002	0.0044	0.0044
Seismic 225 deg M2	50.00	0.004	0.0004	0.0090	0.0090
Seismic 225 deg M2	75.00	0.009	0.0005	0.0143	0.0143
Seismic 225 deg M2	87.50	0.013	0.0000	0.0164	0.0164
Seismic 225 deg M2	107.84	0.019	0.0002	0.0194	0.0194
Seismic 225 deg M2	116.42	0.022	0.0001	0.0192	0.0192
Seismic 225 deg M2	125.00	0.024	0.0000	0.0183	0.0183
Seismic 270 deg M1	25.00	0.001	0.0002	0.0052	0.0052
Seismic 270 deg M1	50.00	0.005	0.0003	0.0094	0.0094
Seismic 270 deg M1	75.00	0.010	0.0003	0.0141	0.0141
Seismic 270 deg M1	87.50	0.013	0.0003	0.0157	0.0157
Seismic 270 deg M1	107.84	0.019	0.0001	0.0180	0.0180
Seismic 270 deg M1	116.42	0.022	0.0001	0.0176	0.0176
Seismic 270 deg M1	125.00	0.024	0.0000	0.0168	0.0168
Seismic 270 deg M2	25.00	0.001	0.0002	0.0044	0.0044
Seismic 270 deg M2	50.00	0.004	0.0002	0.0090	0.0090
Seismic 270 deg M2	75.00	0.009	0.0003	0.0142	0.0142
Seismic 270 deg M2	87.50	0.012	0.0003	0.0163	0.0163
Seismic 270 deg M2	107.84	0.019	0.0002	0.0195	0.0195
Seismic 270 deg M2	116.42	0.022	0.0001	0.0192	0.0192
Seismic 270 deg M2	125.00	0.024	0.0000	0.0183	0.0183
Seismic 315 deg M1	25.00	0.001	0.0003	0.0051	0.0051
Seismic 315 deg M1	50.00	0.005	0.0004	0.0094	0.0094
Seismic 315 deg M1	75.00	0.010	0.0005	0.0142	0.0142
Seismic 315 deg M1	87.50	0.013	0.0004	0.0156	0.0156
Seismic 315 deg M1	107.84	0.019	0.0002	0.0179	0.0179
Seismic 315 deg M1	116.42	0.022	0.0001	0.0176	0.0176
Seismic 315 deg M1	125.00	0.024	0.0000	0.0168	0.0168
Seismic 315 deg M2	25.00	0.001	0.0002	0.0044	0.0044
Seismic 315 deg M2	50.00	0.004	0.0004	0.0090	0.0090
Seismic 315 deg M2	75.00	0.009	0.0005	0.0143	0.0143
Seismic 315 deg M2	87.50	0.012	0.0005	0.0162	0.0162
Seismic 315 deg M2	107.84	0.019	0.0002	0.0194	0.0194
Seismic 315 deg M2	116.42	0.022	0.0001	0.0192	0.0192
Seismic 315 deg M2	125.00	0.024	0.0000	0.0183	0.0183
Seismic (Reduced DL) Normal M1	25.00	0.001	0.0002	0.0051	0.0051
Seismic (Reduced DL) Normal M1	50.00	0.005	0.0003	0.0093	0.0093
Seismic (Reduced DL) Normal M1	75.00	0.010	0.0003	0.0141	0.0141
Seismic (Reduced DL) Normal M1	87.50	0.013	0.0003	0.0156	0.0156
Seismic (Reduced DL) Normal M1	107.84	0.019	0.0001	0.0179	0.0179
Seismic (Reduced DL) Normal M1	116.42	0.022	0.0001	0.0175	0.0175
Seismic (Reduced DL) Normal M1	125.00	0.024	0.0000	0.0168	0.0168
Seismic (Reduced DL) Normal M2	25.00	0.001	0.0002	0.0043	0.0044
Seismic (Reduced DL) Normal M2	50.00	0.004	0.0002	0.0089	0.0089
Seismic (Reduced DL) Normal M2	75.00	0.009	0.0003	0.0142	0.0142
Seismic (Reduced DL) Normal M2	87.50	0.012	0.0003	0.0162	0.0162
Seismic (Reduced DL) Normal M2	107.84	0.019	0.0002	0.0193	0.0193
Seismic (Reduced DL) Normal M2	116.42	0.022	0.0001	0.0192	0.0192
Seismic (Reduced DL) Normal M2	125.00	0.024	0.0000	0.0183	0.0183
Seismic (Reduced DL) 45 deg M1	25.00	0.001	0.0003	0.0051	0.0051
Seismic (Reduced DL) 45 deg M1	50.00	0.005	0.0004	0.0093	0.0093
Seismic (Reduced DL) 45 deg M1	75.00	0.010	0.0005	0.0141	0.0141
Seismic (Reduced DL) 45 deg M1	87.50	0.013	0.0004	0.0158	0.0158
Seismic (Reduced DL) 45 deg M1	107.84	0.019	0.0002	0.0179	0.0179
Seismic (Reduced DL) 45 deg M1	116.42	0.022	0.0001	0.0175	0.0175
Seismic (Reduced DL) 45 deg M1	125.00	0.024	0.0000	0.0168	0.0168
Seismic (Reduced DL) 45 deg M2	25.00	0.001	0.0002	0.0043	0.0043
Seismic (Reduced DL) 45 deg M2	50.00	0.004	0.0004	0.0089	0.0089

Seismic (Reduced DL) 45 deg M2	75.00	0.009	0.0005	0.0143	0.0143
Seismic (Reduced DL) 45 deg M2	87.50	0.012	0.0005	0.0164	0.0164
Seismic (Reduced DL) 45 deg M2	107.84	0.019	0.0002	0.0194	0.0194
Seismic (Reduced DL) 45 deg M2	116.42	0.022	0.0001	0.0191	0.0191
Seismic (Reduced DL) 45 deg M2	125.00	0.024	0.0000	0.0183	0.0183
Seismic (Reduced DL) 90 deg M1	25.00	0.001	0.0002	0.0051	0.0051
Seismic (Reduced DL) 90 deg M1	50.00	0.005	0.0003	0.0093	0.0093
Seismic (Reduced DL) 90 deg M1	75.00	0.010	0.0003	0.0141	0.0141
Seismic (Reduced DL) 90 deg M1	87.50	0.013	0.0003	0.0156	0.0156
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Seismic (Reduced DL) 90 deg M2	75.00	0.009	0.0003	0.0142	0.0142
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Seismic (Reduced DL) 90 deg M2	125.00	0.024	0.0000	0.0183	0.0183
Seismic (Reduced DL) 135 deg M1	25.00	0.001	0.0003	0.0051	0.0051
Seismic (Reduced DL) 135 deg M1	50.00	0.005	-0.0004	0.0093	0.0093
Seismic (Reduced DL) 135 deg M1	75.00	0.010	-0.0005	0.0141	0.0141
Seismic (Reduced DL) 135 deg M1	87.50	0.013	0.0004	0.0158	0.0158
Seismic (Reduced DL) 135 deg M1	107.84	0.019	-0.0002	0.0179	0.0179
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Seismic (Reduced DL) 135 deg M2	50.00	0.004	-0.0004	0.0089	0.0089
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Seismic (Reduced DL) 135 deg M2	87.50	0.012	-0.0005	0.0164	0.0164
Seismic (Reduced DL) 135 deg M2	107.84	0.019	0.0002	0.0194	0.0194
Seismic (Reduced DL) 135 deg M2	116.42	0.022	-0.0001	0.0191	0.0191
Seismic (Reduced DL) 135 deg M2	125.00	0.024	0.0000	0.0183	0.0183
Seismic (Reduced DL) 180 deg M1	25.00	0.001	0.0002	0.0051	0.0051
Seismic (Reduced DL) 180 deg M1	50.00	0.005	-0.0003	0.0093	0.0093
Seismic (Reduced DL) 180 deg M1	75.00	0.010	-0.0003	0.0141	0.0141
Seismic (Reduced DL) 180 deg M1	87.50	0.013	-0.0003	0.0156	0.0156
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Seismic (Reduced DL) 180 deg M2	75.00	0.009	0.0003	0.0142	0.0142
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Seismic (Reduced DL) 180 deg M2	107.84	0.019	-0.0002	0.0193	0.0193
Seismic (Reduced DL) 180 deg M2	116.42	0.022	0.0001	0.0192	0.0192
Seismic (Reduced DL) 180 deg M2	125.00	0.024	0.0000	0.0183	0.0183
Seismic (Reduced DL) 225 deg M1	25.00	0.001	0.0003	0.0051	0.0051
Seismic (Reduced DL) 225 deg M1	50.00	0.005	0.0004	0.0093	0.0093
Seismic (Reduced DL) 225 deg M1	75.00	0.010	0.0005	0.0141	0.0141
Seismic (Reduced DL) 225 deg M1	87.50	0.013	0.0000	0.0158	0.0158
Seismic (Reduced DL) 225 deg M1	107.84	0.019	0.0002	0.0179	0.0179
Seismic (Reduced DL) 225 deg M1	116.42	0.022	0.0001	0.0175	0.0175
Seismic (Reduced DL) 225 deg M1	125.00	0.024	0.0000	0.0168	0.0168
Seismic (Reduced DL) 225 deg M2	25.00	0.001	0.0002	0.0043	0.0043
Seismic (Reduced DL) 225 deg M2	50.00	0.004	0.0004	0.0089	0.0089
Seismic (Reduced DL) 225 deg M2	75.00	0.009	0.0005	0.0143	0.0143
Seismic (Reduced DL) 225 deg M2	87.50	0.012	0.0000	0.0164	0.0164
Seismic (Reduced DL) 225 deg M2	107.84	0.019	0.0002	0.0194	0.0194
Seismic (Reduced DL) 225 deg M2	116.42	0.022	0.0001	0.0191	0.0191
Seismic (Reduced DL) 225 deg M2	125.00	0.024	0.0000	0.0183	0.0183
Seismic (Reduced DL) 270 deg M1	25.00	0.001	0.0002	0.0051	0.0051

Seismic (Reduced DL) 270 deg M1	50.00	0.005	0.0003	0.0093	0.0093
Seismic (Reduced DL) 270 deg M1	75.00	0.010	0.0003	0.0141	0.0141
Seismic (Reduced DL) 270 deg M1	87.50	0.013	0.0003	0.0156	0.0156
Seismic (Reduced DL) 270 deg M1	107.84	0.019	0.0001	0.0179	0.0179
Seismic (Reduced DL) 270 deg M1	116.42	0.022	0.0001	0.0175	0.0175
Seismic (Reduced DL) 270 deg M1	125.00	0.024	0.0000	0.0168	0.0168
Seismic (Reduced DL) 270 deg M2	25.00	0.001	0.0002	0.0043	0.0044
Seismic (Reduced DL) 270 deg M2	50.00	0.004	0.0002	0.0089	0.0089
Seismic (Reduced DL) 270 deg M2	75.00	0.009	0.0003	0.0142	0.0142
Seismic (Reduced DL) 270 deg M2	87.50	0.012	0.0003	0.0162	0.0162
Seismic (Reduced DL) 270 deg M2	107.84	0.019	0.0002	0.0193	0.0193
Seismic (Reduced DL) 270 deg M2	116.42	0.022	0.0001	0.0192	0.0192
Seismic (Reduced DL) 270 deg M2	125.00	0.024	0.0000	0.0183	0.0183
Seismic (Reduced DL) 315 deg M1	25.00	0.001	0.0003	0.0051	0.0051
Seismic (Reduced DL) 315 deg M1	50.00	0.005	0.0004	0.0093	0.0093
Seismic (Reduced DL) 315 deg M1	75.00	0.010	0.0005	0.0141	0.0141
Seismic (Reduced DL) 315 deg M1	87.50	0.013	0.0004	0.0156	0.0156
Seismic (Reduced DL) 315 deg M1	107.84	0.019	0.0002	0.0179	0.0179
Seismic (Reduced DL) 315 deg M1	116.42	0.022	0.0001	0.0175	0.0175
Seismic (Reduced DL) 315 deg M1	125.00	0.024	0.0000	0.0168	0.0168
Seismic (Reduced DL) 315 deg M2	25.00	0.001	0.0002	0.0043	0.0043
Seismic (Reduced DL) 315 deg M2	50.00	0.004	0.0004	0.0089	0.0089
Seismic (Reduced DL) 315 deg M2	75.00	0.009	0.0005	0.0143	0.0143
Seismic (Reduced DL) 315 deg M2	87.50	0.012	0.0005	0.0162	0.0162
Seismic (Reduced DL) 315 deg M2	107.84	0.019	0.0002	0.0194	0.0194
Seismic (Reduced DL) 315 deg M2	116.42	0.022	0.0001	0.0191	0.0191
Seismic (Reduced DL) 315 deg M2	125.00	0.024	0.0000	0.0183	0.0183
Serviceability - 60 mph Wind Normal	25.00	0.006	0.0005	0.0181	0.0182
Serviceability - 60 mph Wind Normal	50.00	0.015	-0.0004	0.0267	0.0267
Serviceability - 60 mph Wind Normal	75.00	0.029	-0.0008	0.0376	0.0376
Serviceability - 60 mph Wind Normal	87.50	0.037	-0.0012	0.0410	0.0410
Serviceability - 60 mph Wind Normal	107.84	0.053	-0.0025	0.0456	0.0457
Serviceability - 60 mph Wind Normal	116.42	0.060	-0.0028	0.0469	0.0470
Serviceability - 60 mph Wind Normal	125.00	0.066	-0.0032	0.0422	0.0424
Serviceability - 60 mph Wind 45 deg	25.00	0.006	0.0009	0.0192	0.0193
Serviceability - 60 mph Wind 45 deg	50.00	0.016	-0.0013	0.0275	0.0275
Serviceability - 60 mph Wind 45 deg	75.00	0.030	-0.0021	0.0395	0.0395
Serviceability - 60 mph Wind 45 deg	87.50	0.039	-0.0026	0.0433	0.0433
Serviceability - 60 mph Wind 45 deg	107.84	0.056	-0.0039	0.0492	0.0493
Serviceability - 60 mph Wind 45 deg	116.42	0.063	-0.0042	0.0495	0.0496
Serviceability - 60 mph Wind 45 deg	125.00	0.070	-0.0045	0.0487	0.0489
Serviceability - 60 mph Wind 90 deg	25.00	0.006	-0.0011	0.0180	0.0180
Serviceability - 60 mph Wind 90 deg	50.00	0.015	-0.0017	0.0262	0.0262
Serviceability - 60 mph Wind 90 deg	75.00	0.029	-0.0023	0.0383	0.0383
Serviceability - 60 mph Wind 90 deg	87.50	0.038	-0.0026	0.0423	0.0423
Serviceability - 60 mph Wind 90 deg	107.84	0.054	-0.0031	0.0483	0.0484
Serviceability - 60 mph Wind 90 deg	116.42	0.061	-0.0032	0.0484	0.0485
Serviceability - 60 mph Wind 90 deg	125.00	0.068	-0.0032	0.0513	0.0514
Serviceability - 60 mph Wind 135 deg	25.00	0.006	-0.0012	0.0188	0.0188
Serviceability - 60 mph Wind 135 deg	50.00	0.016	-0.0011	0.0274	0.0274
Serviceability - 60 mph Wind 135 deg	75.00	0.030	-0.0013	0.0398	0.0398
Serviceability - 60 mph Wind 135 deg	87.50	0.039	-0.0012	0.0442	0.0442
Serviceability - 60 mph Wind 135 deg	107.84	0.056	-0.0005	0.0506	0.0506
Serviceability - 60 mph Wind 135 deg	116.42	0.064	0.0004	0.0512	0.0512
Serviceability - 60 mph Wind 135 deg	125.00	0.071	0.0000	0.0508	0.0508
Serviceability - 60 mph Wind 180 deg	25.00	0.006	0.0010	0.0181	0.0181
Serviceability - 60 mph Wind 180 deg	50.00	0.015	0.0014	0.0270	0.0270
Serviceability - 60 mph Wind 180 deg	75.00	0.029	0.0021	0.0384	0.0384
Serviceability - 60 mph Wind 180 deg	87.50	0.038	0.0023	0.0422	0.0422
Serviceability - 60 mph Wind 180 deg	107.84	0.054	0.0031	0.0480	0.0481
Serviceability - 60 mph Wind 180 deg	116.42	0.061	0.0033	0.0497	0.0498
Serviceability - 60 mph Wind 180 deg	125.00	0.068	0.0033	0.0453	0.0454

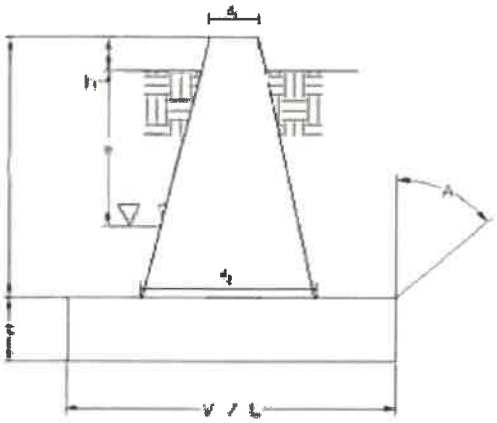
Serviceability - 60 mph Wind 225 deg	25.00	0.006	0.0014	0.0192	0.0193
Serviceability - 60 mph Wind 225 deg	50.00	0.016	0.0020	0.0275	0.0275
Serviceability - 60 mph Wind 225 deg	75.00	0.030	0.0031	0.0395	0.0395
Serviceability - 60 mph Wind 225 deg	87.50	0.039	0.0025	0.0433	0.0433
Serviceability - 60 mph Wind 225 deg	107.84	0.056	0.0044	0.0492	0.0493
Serviceability - 60 mph Wind 225 deg	116.42	0.063	0.0046	0.0495	0.0497
Serviceability - 60 mph Wind 225 deg	125.00	0.070	0.0047	0.0485	0.0487
Serviceability - 60 mph Wind 270 deg	25.00	0.006	0.0011	0.0181	0.0181
Serviceability - 60 mph Wind 270 deg	50.00	0.015	0.0017	0.0258	0.0258
Serviceability - 60 mph Wind 270 deg	75.00	0.029	0.0023	0.0376	0.0376
Serviceability - 60 mph Wind 270 deg	87.50	0.037	0.0026	0.0410	0.0410
Serviceability - 60 mph Wind 270 deg	107.84	0.053	0.0031	0.0460	0.0460
Serviceability - 60 mph Wind 270 deg	116.42	0.060	0.0032	0.0455	0.0456
Serviceability - 60 mph Wind 270 deg	125.00	0.066	0.0033	0.0482	0.0483
Serviceability - 60 mph Wind 315 deg	25.00	0.006	0.0012	0.0189	0.0189
Serviceability - 60 mph Wind 315 deg	50.00	0.016	0.0011	0.0270	0.0270
Serviceability - 60 mph Wind 315 deg	75.00	0.030	0.0012	0.0388	0.0388
Serviceability - 60 mph Wind 315 deg	87.50	0.038	0.0011	0.0420	0.0420
Serviceability - 60 mph Wind 315 deg	107.84	0.054	0.0004	0.0471	0.0471
Serviceability - 60 mph Wind 315 deg	116.42	0.061	0.0003	0.0472	0.0472
Serviceability - 60 mph Wind 315 deg	125.00	0.068	0.0000	0.0463	0.0463

Site Name:	South Salem NY, NY	*Program Last Updated:* *9/27/2016*
Site Number:	88166	*American Tower Corporation*
Engineering Number:	12936321	
Engineer:	Austin.Wilson	
Date:	06/13/19	

Foundation

Design Loads (Factored)

Compression/Leg:	180.47	k
Uplift/Leg:	145.81	k
Face Width @ Top of Pier (d_1):	3.00	ft
Face Width @ Bottom of Pier (d_2):	6.50	ft
Total Length of Pier (l):	7.00	ft
Height of Pedestal Above Ground (h):	0.50	ft
Width of Pad (W):	15.00	ft
Length of Pad (L):	15.00	ft
Thickness of Pad (t):	2.00	ft
Water Table Depth (w):	99.00	ft
Unit Weight of Concrete:	150.0	pcf
Unit Weight of Soil (Above Water Table):	115.0	pcf
Unit Weight of Soil (Below Water Table):	52.6	pcf
Friction Angle of Uplift (A):	30	°
Ultimate Compressive Bearing Pressure:	9750	psf
Ultimate Skin Friction:	0	psf



Volume Pier (Total):	165.08	ft^3
Volume Pad (Total):	450.00	ft^3
Volume Soil (Total):	2129.96	ft^3
Volume Pier (Buoyant):	0.00	ft^3
Volume Pad (Buoyant):	0.00	ft^3
Volume Soil (Buoyant):	0.00	ft^3
Weight Pier:	24.76	k
Weight Pad:	67.50	k
Weight Soil:	244.94	k
Ultimate Skin Friction:	0.00	k
Difference in Soil Volume 1:	519.62	ft^3
Difference in Soil Volume 2:	118.51	ft^3
Difference in Soil Weight:	73.38	k

Uplift Check

ϕs Uplift Resistance (k)	Ratio	Result
252.91	0.58	OK

Axial Check

ϕs Axial Resistance (k)	Ratio	Result
1645.31	0.11	OK

TOWN OF LEWISBORO

NOTICE OF PUBLIC HEARING

NOTICE IS HEREBY GIVEN that the Planning Board of the Town of Lewisboro, Westchester County, New York will convene a Public Hearing on Tuesday, December 15, 2020 at 7:30 p.m., or soon thereafter, using the videoconferencing app Zoom, regarding the following:

Cal #6-12PB
Application for Special Use Permit renewal to Verizon Wireless at the Leon Levy Preserve, 1411 Route 35 South Salem, NY 10590, Sheet 40, Block 10263, Lots 1, 62 (American Towers Inc., owner of record (Lot 62) for existing Verizon telecommunication equipment. The project property consists of approx. 4.040 acres and is located in a Four-Acre Residential (R-4A) Zoning District. Lot 1, which is utilized for access purposes only, is located in a Two -Acre Residential (R-2A) Zoning District.

Due to public health and safety concerns related to the COVID-19 virus, the Planning Board will not be meeting in person. Per Governor Cuomo's Executive Order No. 202.1, this meeting will be held via Zoom and a transcript will be provided at a later date. The public will have the opportunity to review digital copies of materials and proposed site documents at https://www.lewisborogov.com/planningboard

Interested members of the public are encouraged to provide written comments prior to and during the virtual public hearing by emailing Ciorsdan Conran, Planning Board Administrator, at planning@lewisborogov.com Please check the meeting agenda posted on the Board's web page for additional instructions and updates.

The public may view or participate through the Zoom app at https://zoom.us/j/98541138858?pwd=Y1VidHA1dXJjaXBTR0RTdFJjcUlFdz09 by clicking "Join a Meeting," and entering Meeting ID: 985 4113 8858 Passcode: 515716. You may call in to the Zoom meeting at 1-929-205-6099 when prompted, enter Meeting ID: 985 4113 8858 Passcode: 515716.

Persons wishing to object to the application should file a notice of objection with the Planning Board together with a statement of the grounds of objection prior to the closing of the Public Hearing. All interested parties are encouraged to view the Public Hearing and all will be provided an opportunity to be heard.

PLANNING BOARD
TOWN OF LEWISBORO
By: Janet Andersen
Chair

Dated: November 30, 2020

The Town of Lewisboro is committed to equal access for all citizens. Anyone needing accommodations to view or participate in this meeting is encouraged to notify the Administrator to the Planning Board in advance.

AFFIDAVIT OF MAILING

State of New York)
) ss:
County of Westchester)

Gabrielle Ferrezza being duly sworn, deposes and says that she is over twenty-one years of age and works at 94 White Plains Road, Tarrytown, in the State of New York; that she is a paralegal at Snyder & Snyder, LLP, the attorney for New York SMSA Limited Partnership d/b/a Verizon Wireless in connection with its request for a renewal of its special permit with respect to the existing communications tower at 1411 Route 35, South Salem, NY. On November 30, 2020, she served notice, a copy of which is attached hereto, upon the following named persons at the address set forth for each person, as shown on the attached list, by depositing said certified notices at the United States Post Office in Tarrytown, New York, a true copy of the said notices, addressed to each one of the persons named.

Gabrielle Ferrezza

Sworn to and subscribed before me
this 30th day of ~~July~~ November 2020

NOTARY PUBLIC

ANGELA M. POCCIA
STATE OF NEW YORK
NOTARY PUBLIC
Qualified in Putnam County
02PO6404795
MY COMMISSION EXPIRES March 2, 2024

Z:\SSDATA\WPDATA\SS4\WP\NEWBANM\JoeRollins\LTEZoningAnalyses\SouthSalem(Lewisboro)4\SpecialPermitRenewal2020\Notices\Affidavit of Mailing.docx

AMERICAN TOWERS INC.
PO BOX 990265
BOSTON, MA 02199

TOWN OF LEWISBORO
11 MAIN STREET, PO BOX 500
SOUTH SALEM, NY 10590

AT&T CO.
PO BOX 7207
BEDMINSTER, NJ 07921-7207

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AMERICAN TOWERS INC.
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BOSTON, MA 02199

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7099 3400 0002 9644 3260

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BEDMINSTER, NJ 07921-7207

PS Form 3800, July 1999 See Reverse for Instructions

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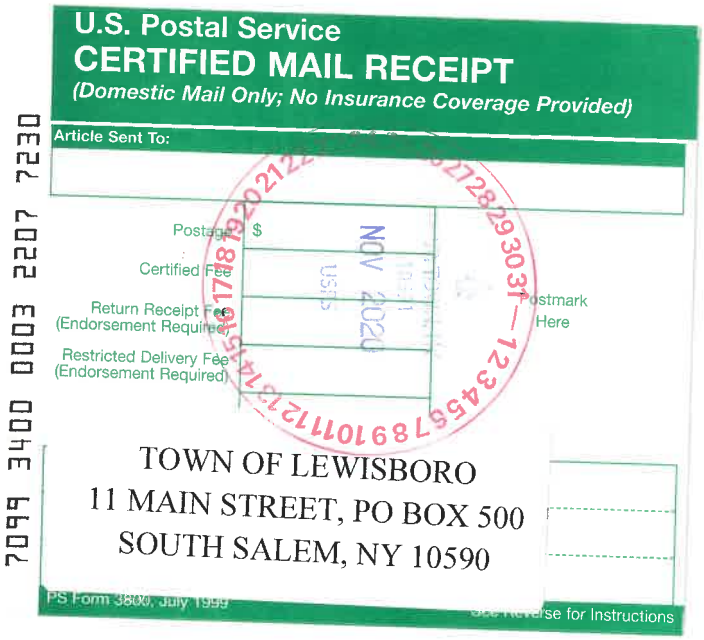

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TOWN OF LEWISBORO
11 MAIN STREET, PO BOX 500
SOUTH SALEM, NY 10590

PS Form 3800, July 1999 See Reverse for Instructions

7099 3400 0003 2207 7230

AFFIDAVIT OF POSTING

State of New York)
) ss:
County of Westchester)

Gabrielle Ferrezza, being duly sworn, deposes and says that she is over twenty-one years of age and works at 94 White Plains Road, Tarrytown, in the State of New York; that she is a paralegal at Snyder & Snyder, LLP the attorney for New York SMSA Limited Partnership d/b/a Verizon Wireless in connection with its request for a renewal of its special permit with respect to the existing communications facility at 1411 Route 35, South Salem, NY. That on the 8th day of December, 2020, she posted notice at the property. A photograph of the sign has been attached hereto.

Gabrielle Ferrezza

Sworn to and subscribed before me
this 8th day of December 2020

NOTARY PUBLIC

ANGELA M. POCCIA
STATE OF NEW YORK
NOTARY PUBLIC
Qualified in Putnam County
02PO6404795
MY COMMISSION EXPIRES March 2, 2024

Z:\SSDATA\WPDATA\SS4\WP\NEWBANM\Joe Rollins\LTE Zoning Analyses\South Salem (Lewisboro) 4\Special Permit Renewal 2020\Notices\Affidavit Of Posting.Docx


NOTICE
Leon Levy
Native Plant
Garden


Leon Levy
Native Plant
Garden

Ciorsdan Conran

From: Joseph Neu <jneu@neugroup.com>
Sent: Thursday, December 10, 2020 6:55 AM
To: Ciorsdan Conran
Cc: Tony Goncalves; Brian Porco; jim.moreo@cornerstone.it; Robert Cummings
Subject: Re: Lewisboro, NY Wireless infrastructure back-up power language

Clarifying language on UPS: UPS, should be of the "on-line/double conversion" type, meaning that the load is always on the batteries which means there is literally zero down time between switches from line to gen, back to line.

Joseph Neu
Founder and CEO
NeuGroup
Connect. Exchange. Distill.
m +1 917 744 8061
jneu@neugroup.com

On Dec 9, 2020, at 6:04 PM, Joseph Neu <jneu@neugroup.com> wrote:

Ciorsdan,
Below is what the consultant came back with concerning backup power along with added notations from AAB on making the battery in line as a UPS source to support the tower power until the generator kicks in.

We would also like Planning to ask that Town or other emergency services communications equipment be allowed to be installed at no charge on the installation/tower as a condition of new installations and renewal if not already granted under the Agreement. [This is patterned on the recent effort by Vista Fire to do this, Brian Porco copied].
++

The application is granted upon the further condition that the applicant's wireless communications facility have:

a) system alarms to alert applicant to a conventional power source failure;
b) an battery backup uninterruptible power supply capable of operating the facility upon initial power failure for up to 30 minutes; and
c) a back-up power generator to be demonstrated to the Town to provide power within 30 minutes, be of a sufficient capacity in watts/amperage to power the applicant's wireless communications facility and Town or other emergency services communications equipment provided for under the Agreement with sufficient fuel to operate for more than 72 continuous hours without refueling.

The fuel source shall be LNG (liquified natural gas a/k/a propane) and shall be contained in an above ground storage tank with the fuel capacity necessary to provide the foregoing operational parameters for continued network operations while awaiting refueling in a reasonable period of time, along with remote LNG storage tank monitoring to provide for a low fuel alarm.

Said generator shall be housed in a compartment containing sound-dampening materials to ensure that it does not generate more than 90 db when continuously operating as measured from the closest property line of the subject parcel.

From: Joseph Neu
Sent: Wednesday, December 9, 2020 12:24 PM
To: Brian Porco <brianporco1@gmail.com>
Cc: Tony Goncalves <tonyjg63@gmail.com>; main-antenna-advisory-board-town-of-lewisboro@mail.asana.com
Subject: RE: Lewisboro, NY Wireless infrastructure back-up power language

Here is what CityScape has come back with.
Any thoughts before sending it on to planning?

From: Susan Rabold <susan@cityscapegov.com>
Sent: Wednesday, December 9, 2020 11:56 AM
To: Joseph Neu <jneu@neugroup.com>
Cc: Tony Goncalves <tonyjg63@gmail.com>
Subject: Re: Lewisboro, NY Wireless infrastructure back-up power language

Greetings,

Please find below draft text for your considerations. You will need to harmonize with your terminology and add relevant information specific to the application but hopefully this will be a good start.

The application is granted upon the further condition that the applicant's wireless communications facility have:

a) system alarms to alert applicant to a conventional power source failure;
b) a battery backup power supply capable of operating the facility upon initial power failure for up to 30 minutes; and
c) a back-up power generator to be demonstrated to the Town be of a sufficient capacity in watts/amperage to power the applicant's wireless communications facility with sufficient fuel to operate for more than 72 continuous hours without refueling.

The fuel source shall be LNG (liquified natural gas a/k/a propane) and shall be contained in an above ground storage tank with the fuel capacity necessary to provide the foregoing operational parameters for continued network operations while awaiting refueling in a reasonable period of time, along with remote LNG storage tank monitoring to provide for a low fuel alarm.

Said generator shall be housed in a compartment containing sound-dampening materials to ensure that it does not generate more than 90 db when continuously operating as measured from the closest property line of the subject parcel.

Please let me know of any questions.

Best regards, Susan

Susan Rabold | Project Manager
Greensboro, NC
Direct Line: 336-210-0843

Smith Ridge Associates LLC

450 Oakridge Common
South Salem NY 10590
(914)533-7424

Town of Lewisboro
79 Bouton Road
South Salem, NY 10590

November 16, 2020

Planning Board,

We are requesting the release of the $6,850.00 cash deposit per Oakridge Common Shopping Center Amendment No. 1 Dated 12/18/18.

Said deposit was for the completion of the landscape plantings for the child care center. This work had been completed Spring 2019.

Sincerely,

Phil Pine
Smith Ridge Associates LLC, Member

INSITE
ENGINEERING, SURVEYING &
LANDSCAPE ARCHITECTURE, P.C.

November 10, 2020

Town of Lewisboro Planning Board
79 Bouton Road
South Salem, New York 10590

RE: Wilder Balter Partners, Inc.
Proposed Affordable Rental Housing Development
NYS Route 22
Tax Map No. 5-10766-19, 20, 21

Dear Chairman Anderson and Members of the Board:

The Wetland Implementation Permit (Permit # 20-17 W.P.) and the Stormwater Permit (Permit # 5-17 S.W.) for the project are scheduled to expire on February 26, 2021. Construction work for the project will not be completed by that date, therefore, the Applicant is requesting a 1 year extension of the approvals for these permits.

Please place the project on the Board's upcoming December 15th, 2020 meeting agenda for consideration of an extension of approvals for the Stormwater Permit and the Wetland Implementation Permit.

Should you have any questions or comments regarding this information, please feel free to contact our office.

Very truly yours,

INSITE ENGINEERING, SURVEYING & LANDSCAPE ARCHITECTURE, P.C.

By: _____
Jeffrey J. Contelmo, PE
Senior Principal Engineer

JJC/dlm

cc: John Bainlardi

Insite File No. 15246.100

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Division of Environmental Permits, Region 3
21 South Putt Corners Road, New Paltz, NY 12561-1620
P: (845) 256-3054 | F: (845) 255-4659
www.dec.ny.gov

November 9, 2020

Property Group Partners LLC
375 Park Ave Fl 35
New York NY 10152

RE: WB Lewisboro Affordable Housing
DEC ID: 3-5530-00223/00001
Article 24 Freshwater Wetlands
Permit Extension

PERMIT MODIFICATION

Dear Mr. Marino,

The New York State Department of Environmental Conservation (Department) has reviewed your written request on behalf of Wilder Balter Partners Inc. and Property Group Partners LLC to extend the expiration date of the above referenced permit. The permit is authorizes disturbances to the 100-foot adjacent area of Freshwater Wetland F-29, Class 1, associated with the grading and installation of an infiltration basin for stormwater management related to the construction of 46 affordable housing units.

In accordance with your request, dated October 26, 2020, the DEC hereby reissues this permit with a new expiration date of December 31, 2023.

All conditions of the permit remain as written in the original. Please attach this modification to the front of your permit. An updated permit sign is enclosed. This sign must be posed at the work site with appropriate weather protection.

If there are any questions, please feel free to contact Alysse Devine at alysse.devine@dec.ny.gov.

Sincerely,

Tracey O'Malley
Deputy Regional Permit Administrator

Ecc: Joshua Fisher, NYSDEC Bureau of Ecosystem Health
NYCDEP
Town of Lewisboro Town Clerk
Enc: Updated Permit Sign

New York State

Department of Environmental Conservation

NOTICE

The Department of Environmental Conservation (DEC) has issued permit(s) pursuant to the Environmental Conservation Law for work being conducted at this site. For further information regarding the nature and extent of work approved and any Department condition on it, contact the DEC at 845-256-3054. Please refer to the permit number shown when contacting the DEC.

Permittee: Wilder Balter Partners Inc. and Property Group Partners LLC **Permit No.** 3-5530-00223/00001

Effective Date: 11/9/2020 **Expiration Date:** 12/31/2023

☐ **Applicable if checked. No instream work allowed between October 1 & April 30**

NOTE: This notice is NOT a permit.

Ciorsdan Conran

From: Sirignano Law Office <lawoffice@sirignano.us>
Sent: Thursday, December 10, 2020 2:55 PM
To: Ciorsdan Conran
Subject: MB of Goldens Bridge Cal. #10-17 P.B.

Ciorsdan,
Request is respectfully made for extensions of the several time periods set forth in the 3/17/20 Resolution adopted by the Planning Board in this matter.
Thank you,
Michael

—

Michael Fuller Sirignano
Attorney and Counselor at Law
Old Post Road Professional Building
892 Route 35, PO Box 784
Cross River, NY 10518
Telephone: (914) 763-5500
Fax: (914) 763-9589

§220-2. Definitions and word usage.

B. For the purposes of this chapter only, certain words and terms used herein are defined as follows:

OUTDOOR SPECIAL EVENTS

All outdoor sales events, street festivals, art exhibits, antiques markets, arts and crafts sales, food distribution, food trucks, food sales and/or food services of any kind, and all similar outdoor merchandising activities or special events.

§220-23. Schedule of regulations for residential districts.

D. Permitted accessory uses. Uses or structures customarily incidental to any permitted principal use are permitted, provided that such accessory use shall not include any activity commonly conducted for gain, except as hereinafter excepted, or any private way or walk giving access to such activity. Permitted accessory uses are as follows:

15. Outdoor special events on commercial properties only.

§220-24. Schedule of regulations for nonresidential districts.

A. Permitted uses in CC-20 Districts.

(2) Permitted accessory uses are as follows:

(l) Outdoor special events on commercial properties only.

B. Permitted uses in SU Districts.

(2) Permitted accessory uses are as follows:

(c) Outdoor special events on commercial properties only.

C. Permitted uses in RB Districts.

(2) Permitted accessory uses are as follows:

(g) Outdoor special events on commercial properties only.

D. Permitted uses in GB Districts.

(2) Permitted accessory uses are as follows:

(b) Outdoor special events on commercial properties only.

George Latimer
County Executive

November 13, 2020

Janet L. Donohue, Town Clerk
Town of Lewisboro
11 Main Street
South Salem, NY 10590

County Planning Board Referral File LEW 20-005 – Outdoor Special Events Zoning Text Amendment

Dear Ms. Donohue:

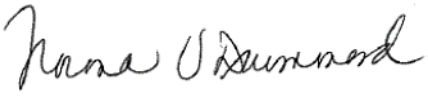
The Westchester County Planning Board has received a proposed local law to amend the text of the Lewisboro Zoning Ordinance to allow "outdoor special events" on commercial properties as an accessory use in the CC-20, SU, RB and GB districts.

We have reviewed this matter under the provisions of Section 239 L, M and N of the General Municipal Law and Section 277.61 of the County Administrative Code and we find it to be a matter for local determination in accordance with the Town's planning and zoning policies.

Please inform us of the Town's decision so that we can make it a part of the record.

Thank you for calling this matter to our attention.

Respectfully,
WESTCHESTER COUNTY PLANNING BOARD

By: 

Norma V. Drummond
Commissioner

NVD/MV

TOWN OF RIDGEFIELD
Planning and Zoning Commission

RECEIVED BY
NOV 16 2020
Town Clerk
Town of Lewisboro

November 10, 2020

Janet Donahue, Town Clerk
Town House, 11 Main Street
P.O. Box 500
South Salem, NY 10590

Re: Referral under Section 8-7d of the Connecticut General Statutes: Application for Amendment to Town of Ridgefield Zoning Map

Dear Ms. Donahue:

Per Section 8-7d of the Connecticut General Statutes, "the zoning commission, planning commission, zoning and planning commission…shall notify the clerk of any adjoining municipality of the pendency of any application, petition, appeal, request or plan concerning any project on any site in which… any portion of the property affected by a decision of such commission, board or agency is within five hundred feet of the boundary of the adjoining municipality". Per Section 8-7d, "such notice shall be made by certified mail, return receipt requested, and shall be mailed *within seven days* of the date of receipt of the application, petition, request or plan."

This letter is to inform you that the Town of Ridgefield Planning and Zoning Commission (Commission) statutorily received the attached Commission initiated zoning map amendment to rename Aquifer Protection Zones to Public Water Supply Protection Zones and relabel the zoning map accordingly.

Please reference the enclosed map.

A public hearing on the proposed amendments will be held on Tuesday, December 1, 2020, at 7:00 p.m. via Zoom webinar. The link will be posted online prior to the hearing date.

If you need additional information, please contact me at 203-431-2767.

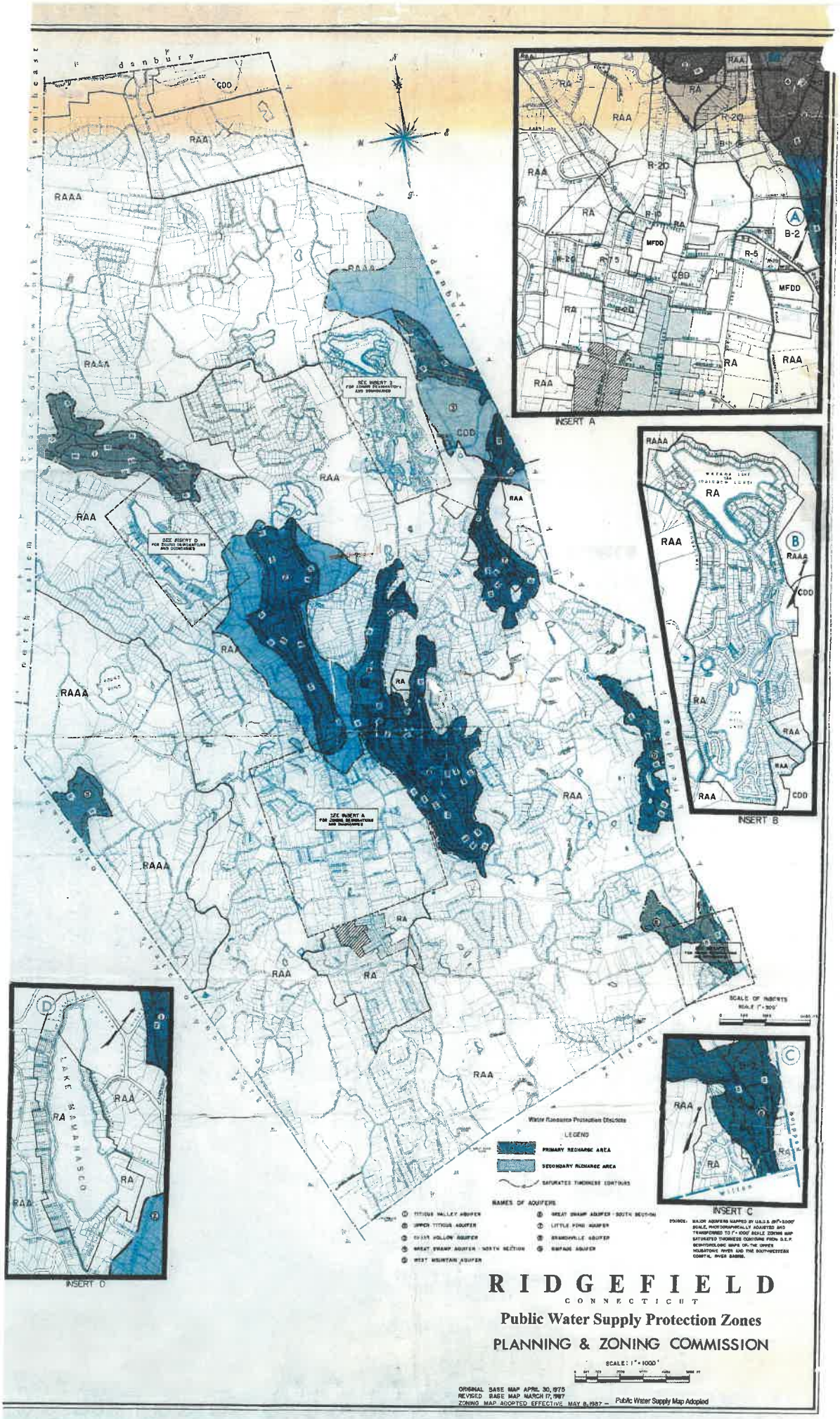
Thank you,

Karen Martin
Assistant Planner, Planning and Zoning

CERTIFIED MAIL: 7014 1820 0001 2135 1406

Enclosures: Subject File

66 Prospect Street • Ridgefield, CT 06877
Phone: (203) 431-2766 • Fax: (203) 431-2737
www.ridgefieldct.org



RIDGEFIELD

CONNECTICUT

Public Water Supply Protection Zones

PLANNING & ZONING COMMISSION

SCALE: 1" = 1000'

ORIGINAL BASE MAP APRIL 30, 1975
REVISED BASE MAP MARCH 17, 1987
ZONING MAP ADOPTED EFFECTIVE MAY 8, 1987 – Public Water Supply Map Adopted