

KENNETH C. BALDWIN

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Hartford, CT 06103-3597
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Fax (860) 275-8299
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Direct (860) 275-8345

Also admitted in Massachusetts
and New York

October 25, 2021

Via Electronic Mail

Melanie A. Bachman, Esq.
Executive Director/Staff Attorney
Connecticut Siting Council
10 Franklin Square
New Britain, CT 06051

Re: **Notice of Exempt Modification – Facility Modification
100 Great Meadow Road, Wethersfield, Connecticut**

Dear Attorney Bachman:

Cellco Partnership d/b/a Verizon Wireless (“Cellco”) currently maintains an existing wireless telecommunications facility at the above-referenced property address (the “Property”). The facility consists of antennas, remote radio heads and an equipment shelter on the roof of the building at the Property. Cellco’s existing wireless facility was approved by the Council in September of 1991 (Docket No. 139). A copy of the Docket No. 139 Decision and Order is included in Attachment 1.

Cellco now intends to modify its facility by removing six (6) antennas and installing three (3) Samsung MT6407-77A, three (3) Samsung CBRS antennas, and three (3) LNX-6513DS-A1M antennas in the same locations on the building. A set of project plans showing Cellco’s proposed facility modifications and specification for Cellco’s new antennas are included in Attachment 2.

Please accept this letter as notification pursuant to R.C.S.A. § 16-50j-73, for construction that constitutes an exempt modification pursuant to R.C.S.A. § 16-50j-72(b)(2). In accordance with R.C.S.A. § 16-50j-73, a copy of this letter is being sent to Wethersfield’s Chief Elected Official and Land Use Officer.

The planned modifications to the facility fall squarely within those activities explicitly provided for in R.C.S.A. § 16-50j-72(b)(2).

1. The proposed modifications will not result in an increase in the height of the existing facility. Cellco's replacement antennas and RRHs will be installed on Cellco's existing and new pipe masts at the same height and location on the roof.

2. The proposed modifications will not involve any change to ground-mounted equipment and, therefore, will not require the extension of the site boundary.

3. The proposed modifications will not increase noise levels at the facility by six decibels or more, or to levels that exceed state and local criteria.

4. The installation of Cellco's new antennas and RRHs will not increase radio frequency (RF) emissions at the facility to a level at or above the Federal Communications Commission (FCC) safety standard. A cumulative general Power Density Calculations table for the modified facility is included in Attachment 3. The modified facility will be capable of providing Cellco's 5G wireless service.

5. The proposed modifications will not cause a change or alteration in the physical or environmental characteristics of the site.

6. According to the attached Structural Analysis Report ("SA") and Mount Analysis Report ("MA"), the existing building and antenna mounting system, with certain modifications, can support Cellco's proposed modifications. Copies of the SA and MA are included in Attachment 4.

A copy of the parcel map and Property owner information is included in Attachment 5. A Certificate of Mailing verifying that this filing was sent to municipal officials and the property owner is included in Attachment 6.

For the foregoing reasons, Cellco respectfully submits that the proposed modifications to the above-referenced telecommunications facility constitutes an exempt modification under R.C.S.A. § 16-50j-72(b)(2).

Melanie A. Bachman, Esq.
October 25, 2021
Page 3

Sincerely,

A handwritten signature in black ink, appearing to read "Kenneth C. Baldwin". The signature is fluid and cursive, with a long horizontal stroke at the end.

Kenneth C. Baldwin

Enclosures

Copy to:

Bonnie Therrien, Wethersfield Interim Town Manager
Peter Gillespie, Director of Planning and Economic Development
100 Great Meadow Road Associates LLC
Aleksey Tyurin

ATTACHMENT 1

DOCKET NO. 139 - An application of
Metro Mobile CTS of Hartford, Inc., : Connecticut
for a Certificate of Environmental :
Compatibility and Public Need for : Siting
the construction, maintenance, and :
operation of cellular facilities in : Council
the Towns of Enfield, East Hartford,
and Wethersfield, Connecticut. September 18, 1991

Decision and Order

Pursuant to the foregoing Findings of Fact and Opinion, the Connecticut Siting Council (Council) finds that the effects associated with the construction, operation, and maintenance of a cellular telecommunications towers and equipment buildings at the proposed Enfield, Connecticut, alternate site and the proposed East Hartford, Connecticut, prime site including effects on the natural environment; ecological integrity and balance; public health and safety; scenic, historic, and recreational values; forests and parks; air and water purity; and fish and wildlife are not disproportionate either alone or cumulatively with other effects when compared to need, are not in conflict with the policies of the State concerning such effects, and are not sufficient reason to deny the application and therefore directs that a Certificate of Environmental Compatibility and Public Need as provided by section 16-50k of the Connecticut General Statutes (CGS), be issued to Metro Mobile CTS of Hartford, Inc., for the construction, operation, and maintenance of a cellular telecommunications tower, associated equipment, and building at the proposed alternate site in Enfield, Connecticut, and the proposed prime site in East Hartford, Connecticut.

The facilities shall be constructed, operated, and maintained substantially as specified in the Council's record in this matter and subject to the following conditions:

1. The self-supporting monopole towers shall be no taller than necessary to provide the proposed communication service and in no event shall the towers exceed a total height of 163 feet above ground level (AGL) at the proposed Enfield alternate site and 123 feet AGL at the proposed East Hartford prime site, with antennas and appurtenances.
2. The Certificate holder shall prepare a Development and Management (D&M) Plan, for approval by the Council, for these sites in compliance with sections 16-50j-75 through 16-50j-77 of the Regulations of State Agencies. This D&M plan

- shall include detailed plans of the towers, tower foundations, soil boring reports, equipment buildings, access roads, security fences, landscaping plans, detailed erosion and sedimentation control plans, and a final schedule. In addition, the D&M plan shall include for Council consideration, detailed plans and itemized costs for the placement of service utilities underground in order to further mitigate the visual effect of the facilities.
3. The Certificate holder shall comply with any existing and future radio frequency (RF) standards promulgated by State or federal regulatory agencies. Upon the establishment of any new governmental RF standards, the facilities granted herein shall be brought into compliance with such standards.
 4. The Certificate holder shall provide the Council with a recalculated report of electromagnetic radio frequency power density if and when circumstances in operation cause a change in power density above the levels originally calculated and provided in the application.
 5. The Certificate holder shall permit public or private entities to share space on the proposed tower for fair consideration, or shall provide any requesting entity with specific legal, technical, environmental, or economic reasons precluding such tower sharing.
 6. If the facility does not initially provide or permanently ceases to provide cellular service following completion of construction, this Decision and Order shall be void, and the tower and all associated equipment shall be dismantled and removed or reapplication for any new use shall be made to the Council as soon as practicable before any such new use is made.
 7. Unless otherwise approved by the Council, this Decision and Order shall be void if all construction authorized herein is not completed within three years of the effective date of this Decision and Order or within three years after all appeals to this Decision and Order have been resolved.

Pursuant to CGS section 16-50p, we hereby direct that a copy of the Findings of Fact, Opinion, and Decision and Order be served on each person listed below, and notice of this issuance shall be published in the Hartford Courant and the Journal Inquirer.

By this Decision and Order, the Council disposes of the legal rights, duties, and privileges of each party named or admitted to the proceeding in accordance with section 16-50j-17 of the Regulations of State Agencies.

The parties to this proceeding are:

PARTIES	ITS REPRESENTATIVE
Metro Mobile CTS of Hartford, Inc. 20 Alexander Drive P.O. Box 5029 Wallingford, CT 06492 Attn: Gary Schulman	Robinson and Cole One Commercial Plaza Hartford, CT 06103-3597 Attn: Earl Phillips, Jr. (203) 275-8200
The Town of East Hartford	G. Barry Goodberg Assistant Corporation Counsel Town of East Hartford 740 Main Street East Hartford, CT 06108 (203) 289-2781
The Town of Enfield	Christopher W. Bromson Enfield Town Attorney 47 No. Main Street Enfield, CT 06082 (203) 745-0371 Ext. 290

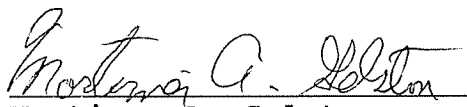
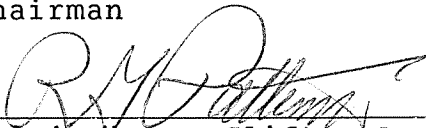
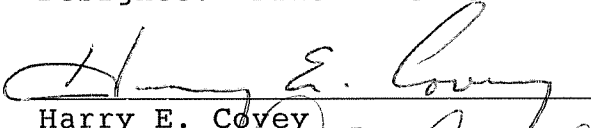
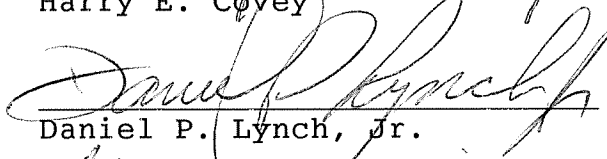
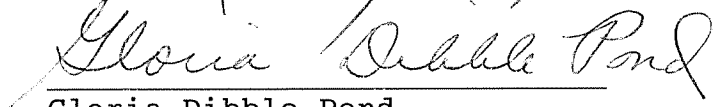
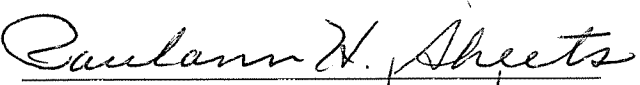
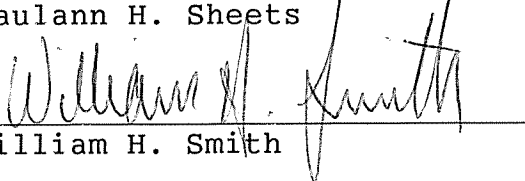
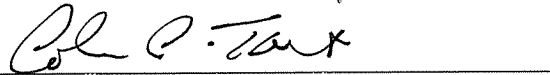
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CERTIFICATION

The undersigned members of the Connecticut Siting Council hereby certify that they have heard this case in DOCKET NO. 139 - An application of Metro Mobile CTS of Hartford, Inc., for a Certificate of Environmental Compatibility and Public Need for the construction, maintenance, and operation of cellular facilities in the Towns of Enfield, East Hartford, and Wethersfield, Connecticut, or read the record thereof, and that we voted as follows:

Dated at New Britain, Connecticut the 18th day of September, 1991.

<u>Council Members</u>	<u>Vote Cast</u>
 Mortimer A. Gelston Chairman	YES
 Commissioner Clifton A. Leonhardt Designee: Commissioner Richard G. Patterson	ABSTAIN
Commissioner Timothy R.E. Keeney Designee: Brian Emerick	ABSENT
 Harry E. Covey	NO
 Daniel P. Lynch, Jr.	NO
 Gloria Dibble Pond	YES
 Paulann H. Sheets	YES
 William H. Smith	YES
 Colin C. Tait	YES

ATTACHMENT 2



WIRELESS COMMUNICATIONS FACILITY

**SITE NAME:
WETHERSFIELD CT**

**PUTNAM PARK
100 GREAT MEADOW RD.
WETHERSFIELD, CT 06109**

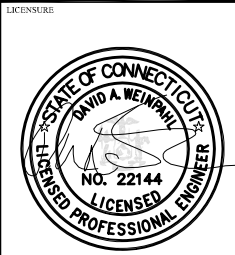
ANTENNA MODIFICATION

NOTE: REFER TO STRUCTURAL MOUNT
MODIFICATION DRAWINGS DATED
4-29-21. UNDER SEPARATE COVER.
FOR ADDITIONAL INFORMATION
AND REQUIRED REINFORCEMENTS.

verizon
WIRELESS COMMUNICATIONS FACILITY

20 ALEXANDER DRIVE
WALLINGFORD, CT 06492

On Air Engineering, LLC
88 Foundry Pond Road
Cold Spring, NY 10516
201-456-4624
onair@optonline.net



DAVID WEINPAHL, P.E.
CT LIC NO. 22144

SUBMITTALS	
NO.	DATE
0	12.12.20
1	05.07.21

NO.	DATE	DESCRIPTION

DRAWN BY: MF
CHECKED BY: DW

PROJECT NAME:
**ANTMO
VZS01-CBRS
DESIGN EXHIBITS**

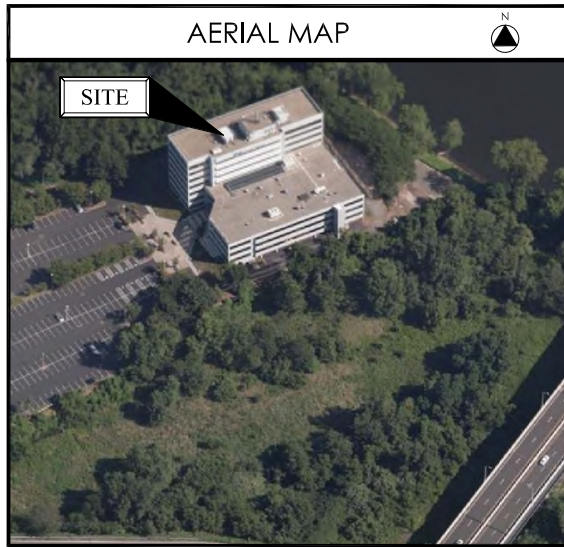
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WETHERSFIELD CT

SITE ADDRESS:
**PUTNAM PARK
100 GREAT MEADOW RD.
WETHERSFIELD, CT 06109**

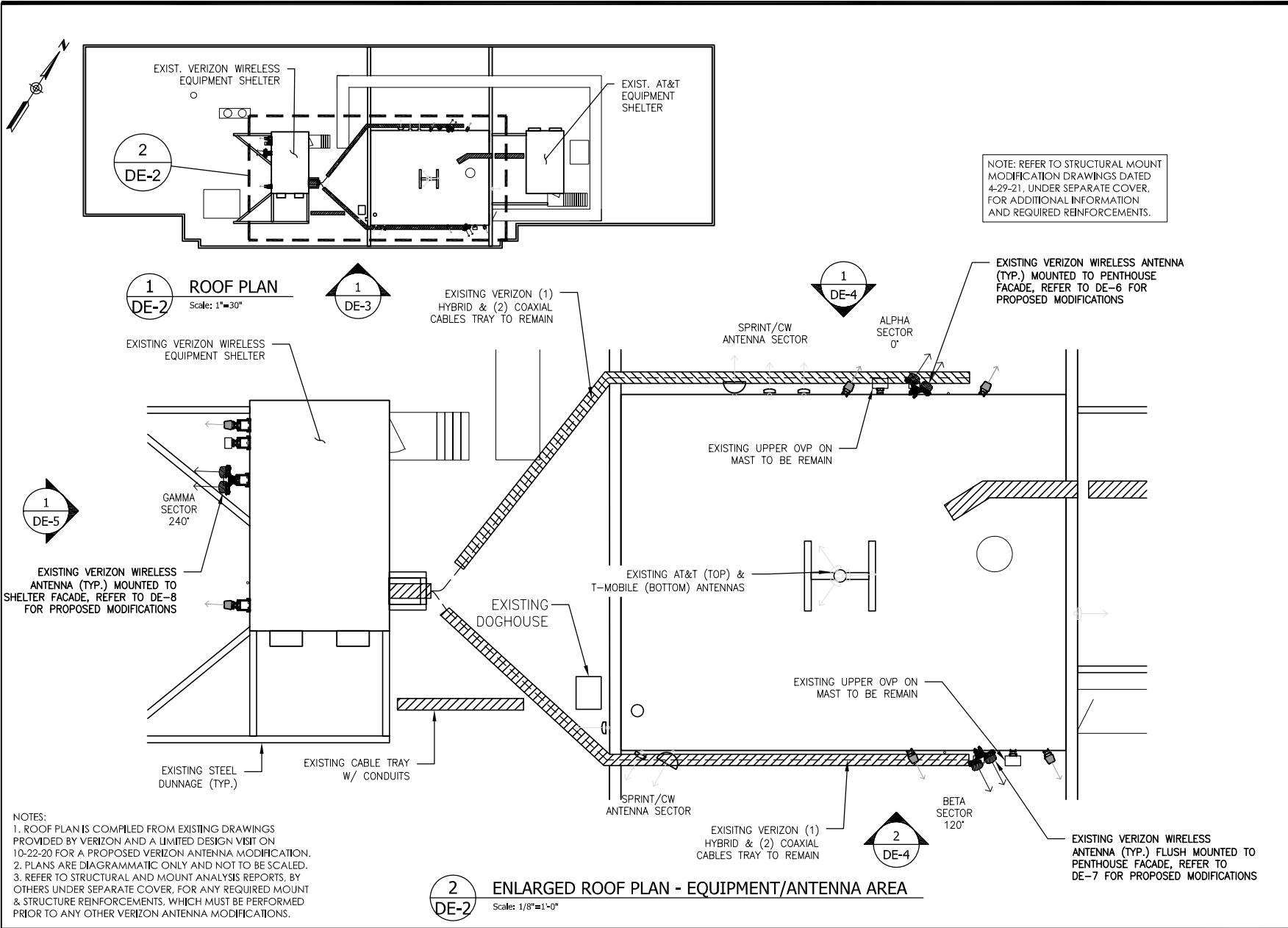
SHEET TITLE:
TITLE SHEET

SHEET NUMBER:
DE-1

PROJECT SUMMARY	
SITE NAME:	WETHERSFIELD CT
SITE ADDRESS:	100 GREAT MEADOW RD. WETHERSFIELD, CT 06109
PROPERTY OWNER:	100 GREAT MEADOW ROAD ASSOC. LLC 100 GREAT MEADOW RD. WETHERSFIELD, CT 06109
PARCEL ID:	286-001
COORDINATES:	41° 42' 50.65" N 72° 38' 37.50" W
VERIZON CONSTRUCTION:	WALTER CHARCZYNSKI (860) 306-1806
VERIZON REAL ESTATE:	ALEX TYURIN (860) 550-3195



SHEET INDEX	
DE-1	TITLE SHEET
DE-2	ROOF PLANS
DE-3	SOUTH ELEVATION
DE-4	ALPHA/BETA SECTOR ELEVATIONS
DE-5	GAMMA SECTOR ELEVATION
DE-6	ANTENNA CONFIGURATION ALPHA SECTOR
DE-7	ANTENNA CONFIGURATION BETA SECTOR
DE-8	ANTENNA CONFIGURATION GAMMA SECTOR
DE-9	RF PLUMBING DIAGRAM & B.O.M
DE-10	GENERAL CONSTRUCTION NOTES



LICENSURE

DAVID WEINPAHL, P.E.
 CT LIC NO. 22144

SUBMITTALS		
0	12.12.20	REVIEW
1	05.07.21	PERMITTING/CONSTRUCTION

NO.	DATE	DESCRIPTION
DRAWN BY:	MF	
CHECKED BY:	DW	

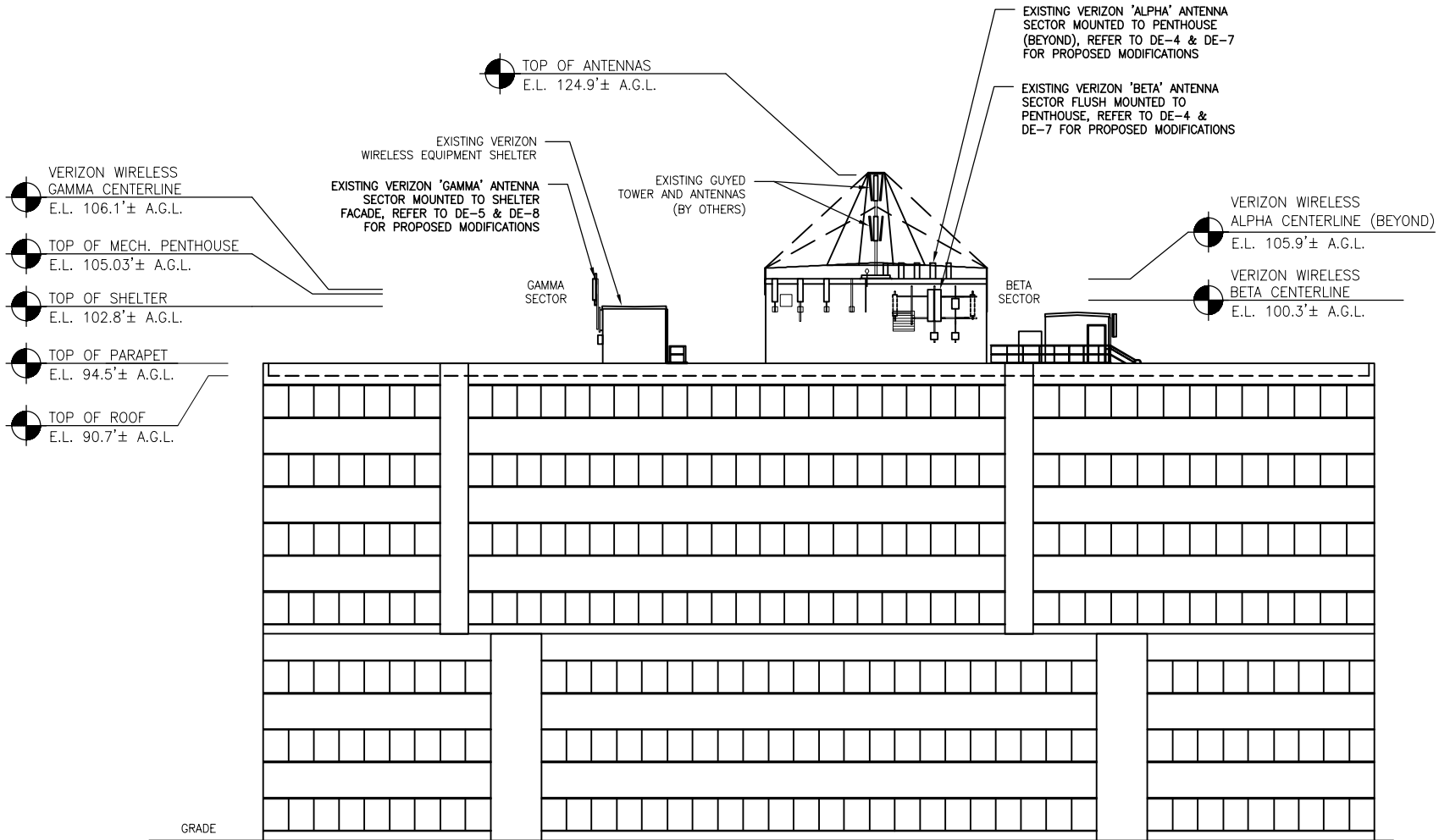
PROJECT NAME:
**ANTMO
 VZS01-CBRS
 DESIGN EXHIBITS**

SITE NAME:
WETHERSFIELD CT

SITE ADDRESS:
**PUTNAM PARK
 100 GREAT MEADOW RD.
 WETHERSFIELD, CT 06109**

SHEET TITLE:
ROOF PLANS

SHEET NUMBER:
DE-2



1 SOUTH ELEVATION
 DE-3 Scale: 1"=20'

WIRELESS COMMUNICATIONS FACILITY

20 ALEXANDER DRIVE
 WALLINGFORD, CT 06492

On Air Engineering, LLC

88 Foundry Pond Road
 Cold Spring, NY 10516
 201-456-4624
 onair@optonline.net

LICENSE

STATE OF CONNECTICUT
 DAVID A. WEINPAHL
 NO. 22144
 LICENSED PROFESSIONAL ENGINEER

DAVID WEINPAHL, P.E.
CT LIC. NO. 22144

SUBMITTALS	
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01	05.07.21 PERMITTING/CONSTRUCTION

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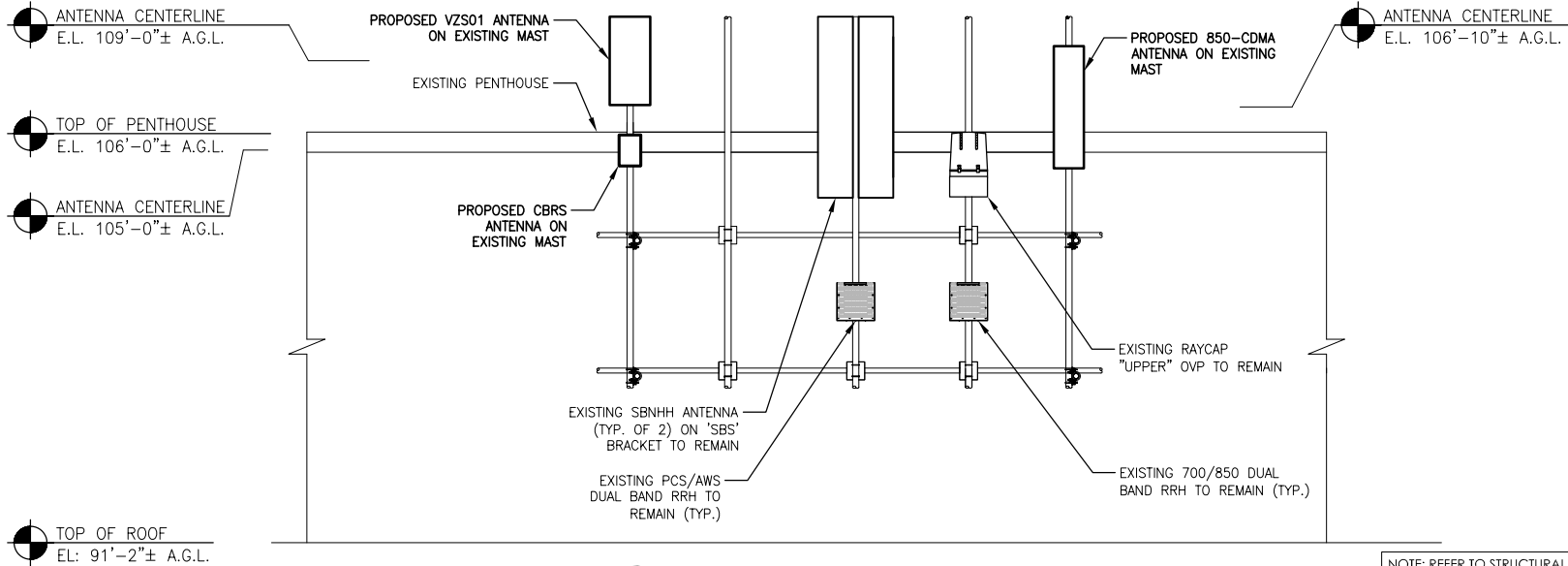
PROJECT NAME:
**ANTMO
 VZS01-CBRS
 DESIGN EXHIBITS**

SITE NAME:
WETHERSFIELD CT

SITE ADDRESS:
**PUTNAM PARK
 100 GREAT MEADOW RD.
 WETHERSFIELD, CT 06109**

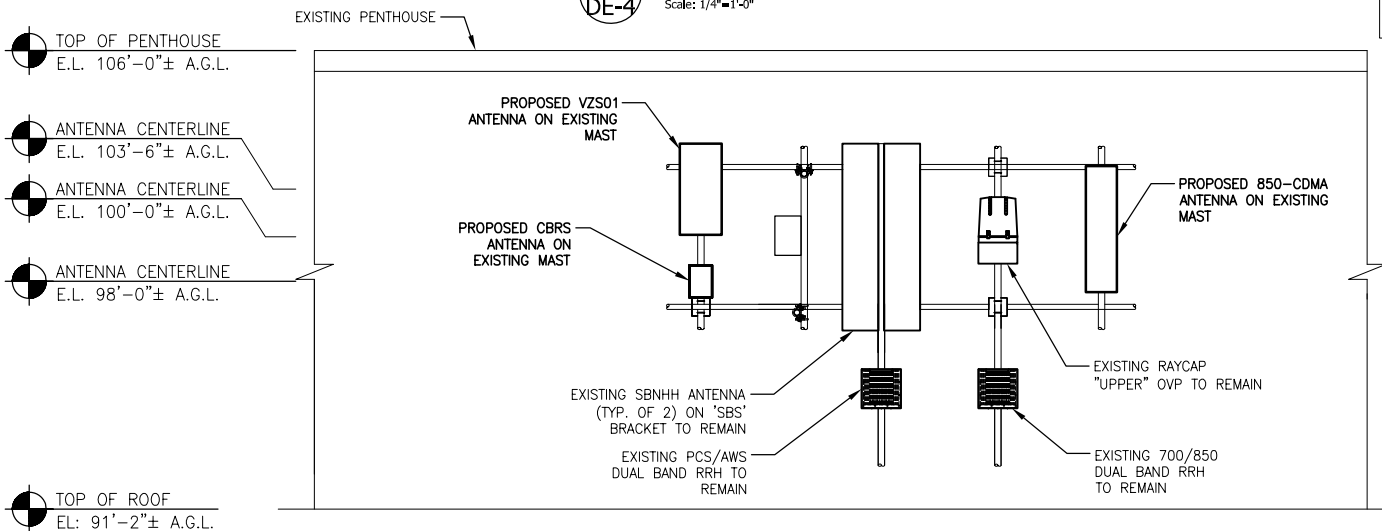
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SOUTH ELEVATION

SHEET NUMBER:
DE-3



1
DE-4 ALPHA SECTOR ELEVATION - PROPOSED
 Scale: 1/4"=1'-0"

NOTE: REFER TO STRUCTURAL MOUNT MODIFICATION DRAWINGS DATED 4-29-21, UNDER SEPARATE COVER, FOR ADDITIONAL INFORMATION AND REQUIRED REINFORCEMENTS.

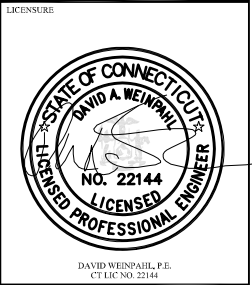


2
DE-4 BETA SECTOR ELEVATION - PROPOSED
 Scale: 1/4"=1'-0"



WIRELESS COMMUNICATIONS FACILITY
 20 ALEXANDER DRIVE
 WALLINGFORD, CT 06492

On Air Engineering, LLC
 88 Foundry Pond Road
 Cold Spring, NY 10516
 201-456-4624
 onair@optonline.net



SUBMITTALS	
0	12.12.20 REVIEW
1	05.07.21 PERMITTING/CONSTRUCTION

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CHECKED BY:	DW	

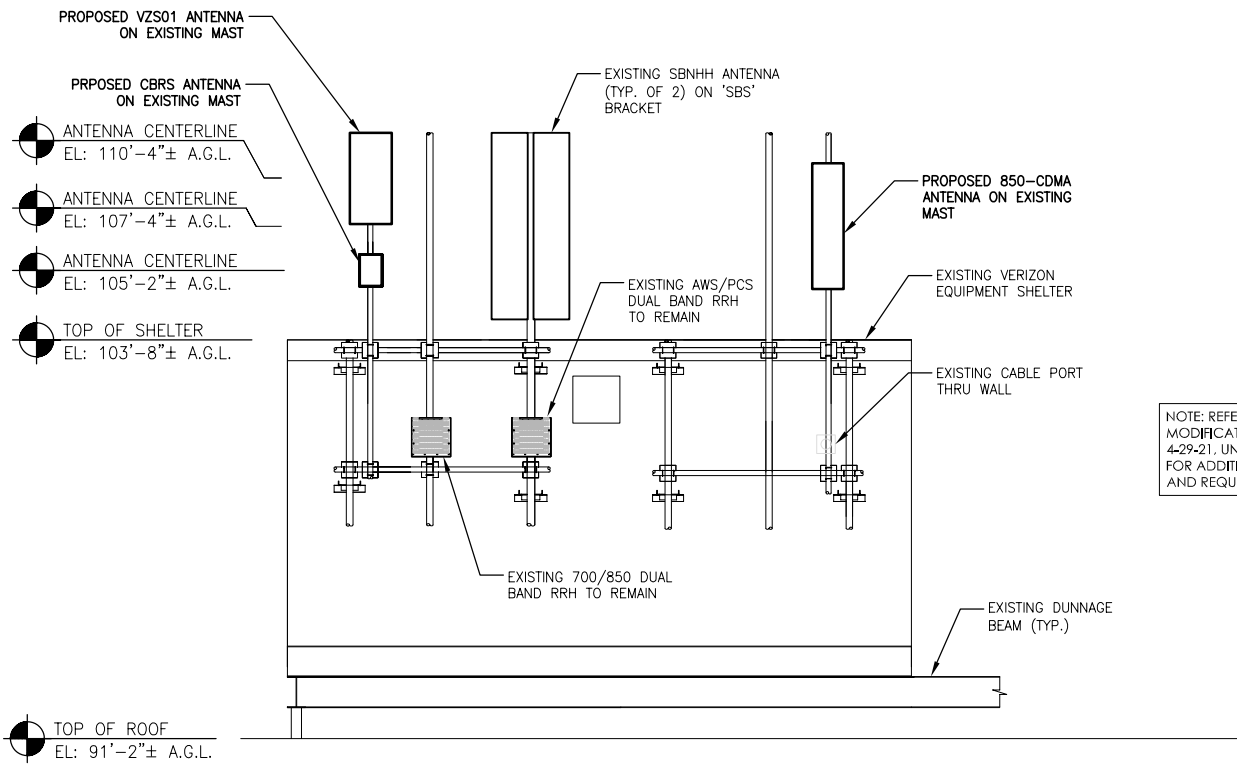
PROJECT NAME:
**ANTMO
 VZS01-CBRS
 DESIGN EXHIBITS**

SITE NAME:
WETHERSFIELD CT

SITE ADDRESS:
**PUTNAM PARK
 100 GREAT MEADOW RD.
 WETHERSFIELD, CT 06109**

SHEET TITLE:
**ALPHA/BETA SECTOR
 ELEVATIONS**

SHEET NUMBER:
DE-4

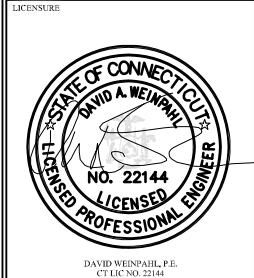


NOTE: REFER TO STRUCTURAL MOUNT MODIFICATION DRAWINGS DATED 4-29-21, UNDER SEPARATE COVER, FOR ADDITIONAL INFORMATION AND REQUIRED REINFORCEMENTS.

1
DE-5 **GAMMA SECTOR ELEVATION - PROPOSED**
Scale: 1/4"=1'-0"

verizon
WIRELESS COMMUNICATIONS FACILITY
20 ALEXANDER DRIVE
WALLINGFORD, CT 06492

On Air Engineering, LLC
88 Foundry Pond Road
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SUBMITTALS

NO	DATE	DESCRIPTION
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1	05.07.21	PERMITTING/CONSTRUCTION

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CHECKED BY:	DW

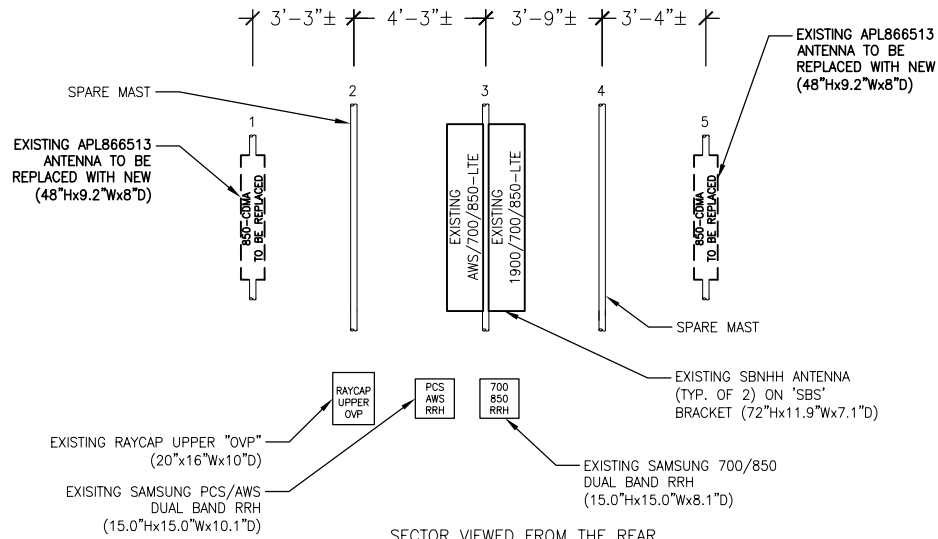
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VZS01-CBRS
DESIGN EXHIBITS**

SITE NAME:
WETHERSFIELD CT

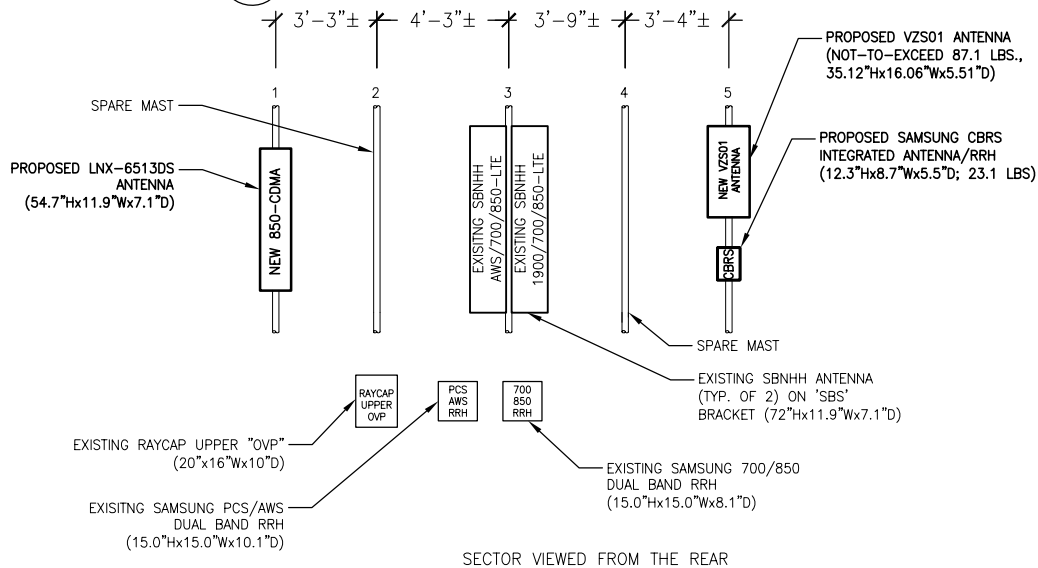
SITE ADDRESS:
**PUTNAM PARK
100 GREAT MEADOW RD.
WETHERSFIELD, CT 06109**

SHEET TITLE:
**GAMMA SECTOR
ELEVATION**

SHEET NUMBER:
DE-5



1 ANTENNA CONFIGURATION - EXISTING (ALPHA SECTOR)
 DE-6 Scale: 1/4"=1'-0"



2 ANTENNA CONFIGURATION - PROPOSED (ALPHA SECTOR)
 DE-6 Scale: 1/4"=1'-0"

verizon
 WIRELESS COMMUNICATIONS FACILITY
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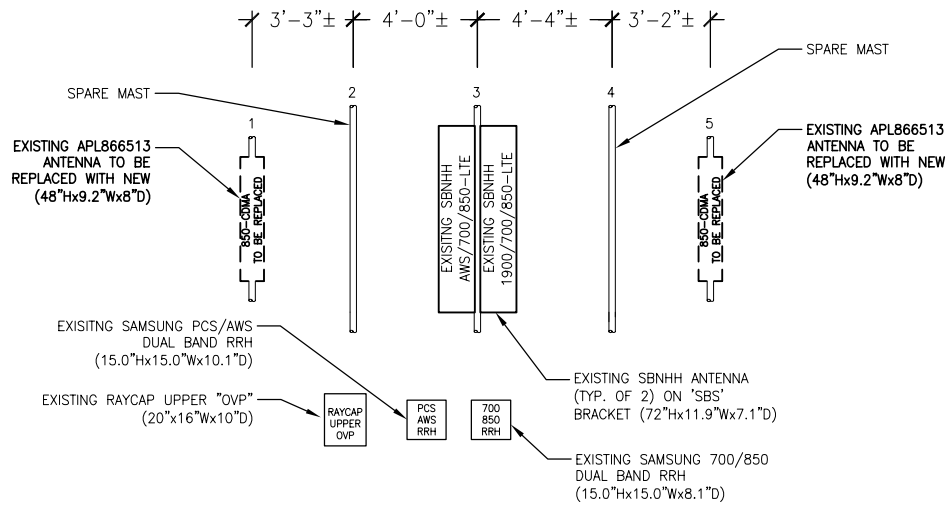
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 VZS01-CBRS
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SITE NAME:
WETHERSFIELD CT

SITE ADDRESS:
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 100 GREAT MEADOW RD.
 WETHERSFIELD, CT 06109**

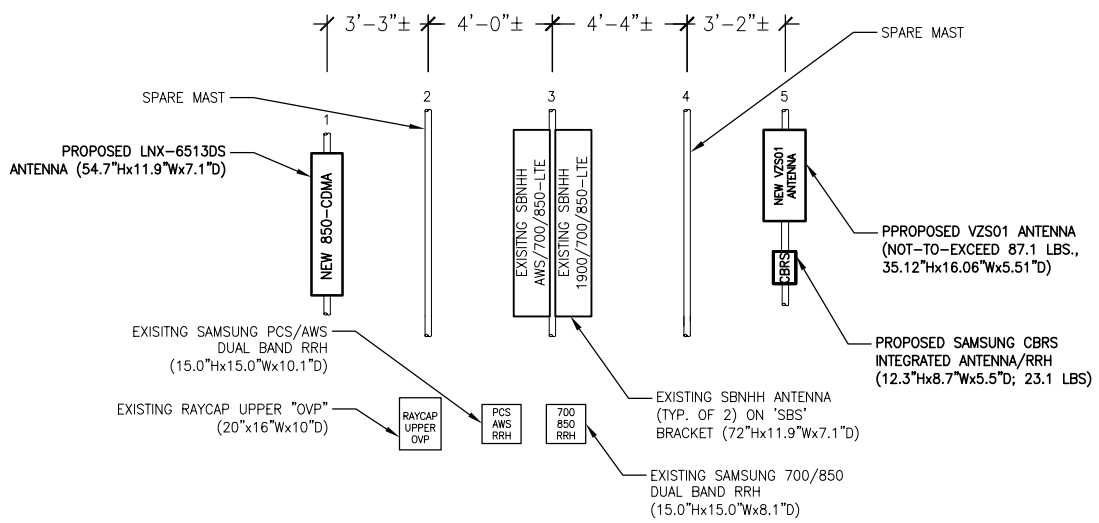
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**ANTENNA
 CONFIGURATION
 ALPHA SECTOR**

SHEET NUMBER:
DE-6



ANTENNA VIEWED FROM THE REAR

1 ANTENNA CONFIGURATION - EXISTING (BETA SECTOR)
 DE-7 Scale: 1/4"=1'-0"



ANTENNA VIEWED FROM THE REAR

2 ANTENNA CONFIGURATION - PROPOSED (BETA SECTOR)
 DE-7 Scale: 1/4"=1'-0"

verizon
 WIRELESS COMMUNICATIONS FACILITY
 20 ALEXANDER DRIVE
 WALLINGFORD, CT 06492

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CHECKED BY:		DW

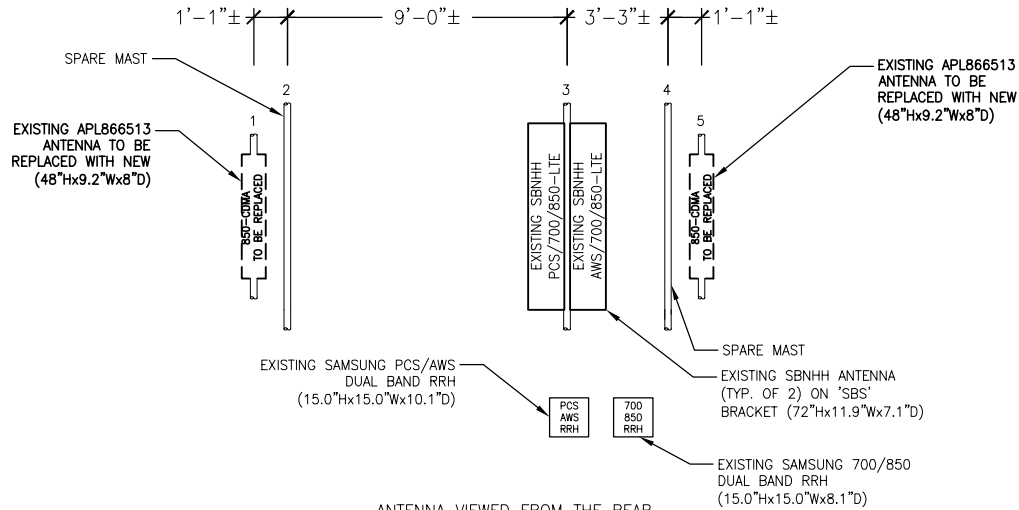
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**ANTMO
 VZS01-CBRS
 DESIGN EXHIBITS**

SITE NAME:
WETHERSFIELD CT

SITE ADDRESS:
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 100 GREAT MEADOW RD.
 WETHERSFIELD, CT 06109**

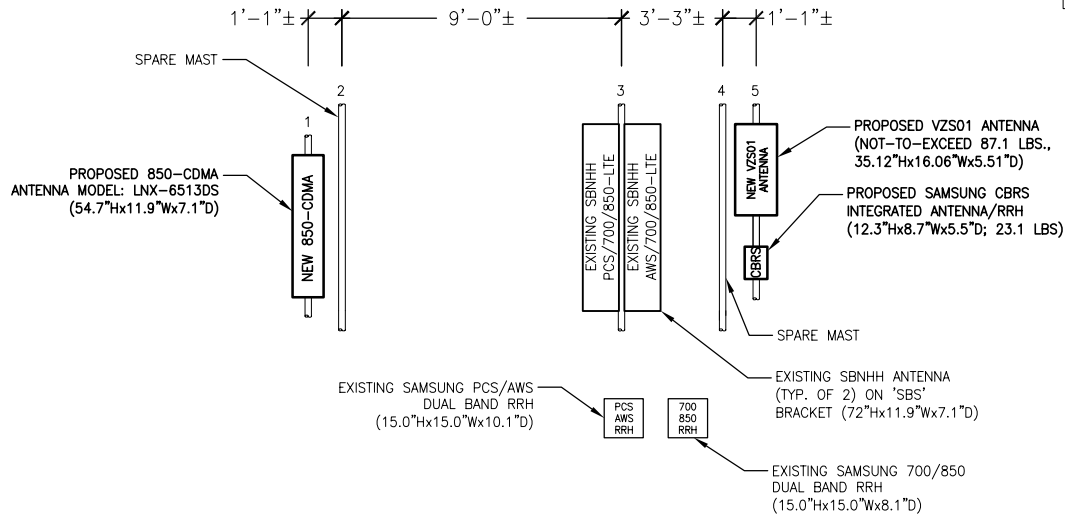
SHEET TITLE:
**ANTENNA
 CONFIGURATION
 BETA SECTOR**

SHEET NUMBER:
DE-7



1
DE-8
ANTENNA CONFIGURATION - EXISTING (GAMMA SECTOR)
Scale: 1/4"=1'-0"

NOTES:
1. GAMMA SECTOR LOCATED ON SHELTER FACADE. THERE IS NO EXTERIOR RAYCAP OVP. ROUTE NEW FIBER/DC POWER CABLES WITH EXISTING CABLES THRU SHELTER WALL TO RAYCAP SECTOR OVP INSIDE ON WALL.



2
DE-8
ANTENNA CONFIGURATION - PROPOSED (GAMMA SECTOR)
Scale: 1/4"=1'-0"

verizon
WIRELESS COMMUNICATIONS FACILITY
20 ALEXANDER DRIVE
WALLINGFORD, CT 06492

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CT LIC NO. 22144

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DESIGN EXHIBITS**

SITE NAME:
WETHERSFIELD CT

SITE ADDRESS:
**PUTNAM PARK
100 GREAT MEADOW RD.
WETHERSFIELD, CT 06109**

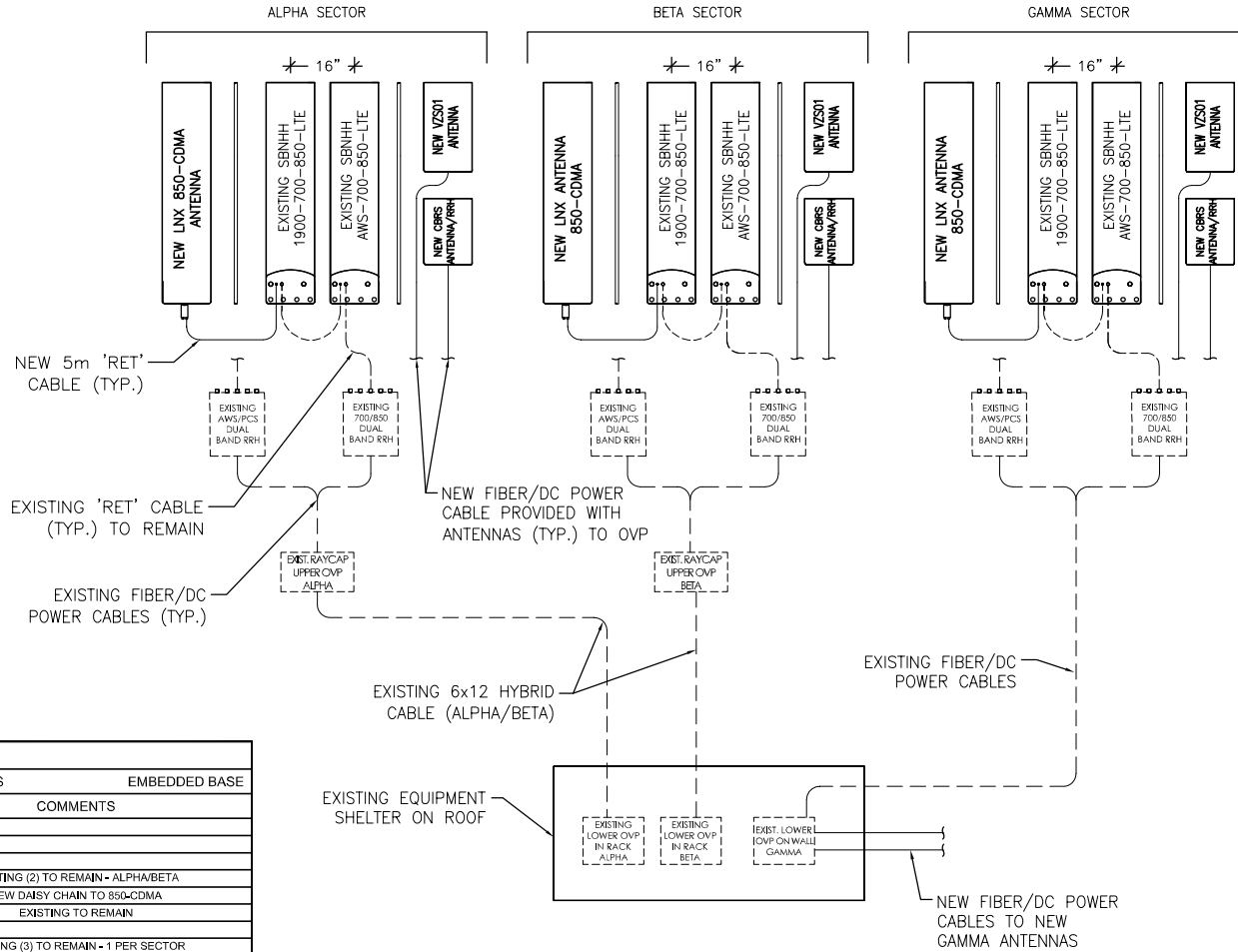
SHEET TITLE:
**ANTENNA
CONFIGURATION
GAMMA SECTOR**

SHEET NUMBER:
DE-8

GENERAL NOTES:

- CONTRACTOR SHALL REFER TO THE LATEST VERIZON WIRELESS RFDS WHICH MAY INCLUDE ANTENNA SECTOR AZIMUTHS/ANTENNA CHANGES, ETC. THAT ARE REQUIRED AS PART OF THE PROJECT.
- CONTRACTOR SHALL SECURE ALL CONTROL CABLES IN ACCORDANCE WITH INDUSTRY STANDARDS AND MANUFACTURERS INSTRUCTIONS. EXTERIOR CABLES MAY BE TAPED OR TIE-WRAPPED TO EXISTING SUPPORTS EVERY 4 FT. MAX. FOR HORIZONTAL RUNS. CONTRACTOR MAY USE HOISTING GRIPS AT TOP OF VERTICAL CABLE RUNS WHEN REQUIRED.
- ALL CABLES SHALL BE ROUTED AND SECURED ON STRUCTURAL MEMBERS ONLY - DO NOT "LOOP" THE CABLES IN MID-AIR BETWEEN ANTENNAS
- REFER TO RFDS FOR DETAILED PLUMBING DIAGRAM SHOWING ALL JUMPER AND OTHER CABLING CONNECTIONS AT ANTENNAS, RRH'S, DIPLEXERS OR OTHER DEVICES.

NOTE: ALL ANTENNAS VIEWED FROM REAR



BILL OF MATERIALS			
DESCRIPTION	QTY	LENGTH	COMMENTS
SITE NAME: WETHERSFIELD CT ANTMO VZS01-CBRS EMBEDDED BASE			
LOWER OVP	-	-	
UPPER OVP	-	-	
6x12 HYBRID CABLE	-	-	EXISTING (2) TO REMAIN - ALPHA/BETA
RET CONTROL CABLE	3	5m	NEW DAISY CHAIN TO 850CDMA
1/2" JUMPERS	-	-	EXISTING TO REMAIN
DUAL BAND AWS/PCS RRH	-	-	EXISTING (3) TO REMAIN - 1 PER SECTOR
DUAL BAND 700/850 RRH	-	-	EXISTING (3) TO REMAIN - 1 PER SECTOR
VZS01 ANTENNA	3	-	SAMSUNG INTEGRATED - REFER TO RFDS
CBRS ANTENNA	3	-	SAMSUNG INTEGRATED - REFER TO RFDS
SBNHH ANTENNA AWS-700-850-LTE	-	-	EXISTING (3) TO REMAIN - 1 PER SECTOR
SBNHH ANTENNA PCS-700-850-LTE	-	-	EXISTING (3) TO REMAIN - 1 PER SECTOR
SIDE-BY-SIDE MTG. BRACKET	-	-	EXISTING (3) TO REMAIN - 1 PER SECTOR
850-CDMA ANTENNA	3	-	NEW (3) TO REPLACE EXISTING (6)

NOTES:
 1. ITEMS SHOWN ARE FOR MAJOR DESIGN ELEMENTS ONLY. REFER TO VERIZON WIRELESS RFDS FOR ALL MANUFACTURER PART NUMBERS AND ACCESSORY ITEMS REQUIRED FOR A COMPLETE INSTALLATION.
 2. RE-USE EXISTING 850-CDMA JUMPERS OR PROVIDE NEW AS REQUIRED; PROVIDE TERMINATION CAPS ON ALL UN-USED ANTENNA PORTS.

1 RF PLUMBING DIAGRAM
 DE-9 Scale: N.T.S

verizon
 WIRELESS COMMUNICATIONS FACILITY

20 ALEXANDER DRIVE
 WALLINGFORD, CT 06492

On Air Engineering, LLC
 88 Foundry Pond Road
 Cold Spring, NY 10516
 201-456-4624
 onair@optonline.net

LICENSEUR

DAVID WEINPAHL, P.E.
 CT LIC NO. 22144

SUBMITTALS	
0	12.12.20 REVIEW
1	05.07.21 PERMITTING/CONSTRUCTION

NO.	DATE	DESCRIPTION
DRAWN BY:	MF	
CHECKED BY:	DW	

PROJECT NAME:
**ANTMO
 VZS01-CBRS
 DESIGN EXHIBITS**

SITE NAME:
WETHERSFIELD CT

SITE ADDRESS:
**PUTNAM PARK
 100 GREAT MEADOW RD.
 WETHERSFIELD, CT 06109**

SHEET TITLE:
**RF PLUMBING
 DIAGRAM & B.O.M.**

SHEET NUMBER:
DE-9

GENERAL CONSTRUCTION NOTES:

1. CONTRACTOR SHALL NOT COMMENCE ANY WORK UNTIL HE OBTAINS, AT HIS OWN EXPENSE, ALL INSURANCE REQUIRED BY *CELLCO PARTNERSHIP d/b/a VERIZON WIRELESS*, THE PROPERTY OWNER AND/OR PROPERTY MANAGEMENT COMPANY.
2. ALL WORK SHALL BE DONE IN ACCORDANCE WITH ALL APPLICABLE CODES AND REGULATIONS AND ALL LOCAL LAWS AND REGULATIONS, CURRENT EDITIONS.
3. CONTRACTOR SHALL VISIT THE JOB SITE AND FAMILIARIZE HIMSELF WITH ALL CONDITIONS AFFECTING THE PROPOSED WORK AND MAKE PROVISIONS AS TO THE COST THEREOF. CONTRACTOR SHALL BE RESPONSIBLE FOR FAMILIARIZING HIMSELF WITH ALL CONTRACT DOCUMENTS, FIELD CONDITIONS AND DIMENSIONS AND CONFIRMING THAT THE WORK MAY BE ACCOMPLISHED AS SHOWN PRIOR TO PROCEEDING WITH CONSTRUCTION. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO THE COMMENCEMENT OF WORK.
4. CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS, ELEVATIONS, ANGLES AND EXISTING CONDITIONS AT THE SITE PRIOR TO FABRICATION AND/OR INSTALLATION OF ANY WORK IN THE CONTRACT AREA AND SUBMIT TO THE ENGINEER ANY DISCREPANCIES FROM THE DRAWINGS.
5. CONTRACTOR IS TO REVIEW ALL DRAWINGS AND SPECIFICATIONS IN THE CONTRACT DOCUMENT SET. CONTRACTOR SHALL COORDINATE ALL WORK SHOWN IN THE SET OF DRAWINGS. CONTRACTOR SHALL PROVIDE A COMPLETE SET OF DRAWINGS TO ALL SUB-CONTRACTORS AND ALL RELATED PARTIES. THE SUB-CONTRACTORS SHALL EXAMINE ALL THE DRAWINGS AND SPECIFICATIONS FOR THE INFORMATION THAT AFFECTS THEIR WORK.
6. CONTRACTOR SHALL PROVIDE A COMPLETE BUILD-OUT WITH ALL FINISHES, STRUCTURAL, MECHANICAL AND ELECTRICAL COMPONENTS AND PROVIDE ALL ITEMS AS SHOWN OR INDICATED ON DRAWINGS OR WRITTEN IN SPECIFICATIONS.
7. CONTRACTOR SHALL FURNISH ALL MATERIAL, LABOR AND EQUIPMENT TO COMPLETE THE WORK AND FURNISH A COMPLETED JOB IN ACCORDANCE WITH LOCAL AND STATE GOVERNING AUTHORITIES AND OTHER AUTHORITIES HAVING LAWFUL JURISDICTION OVER THE WORK.
8. CONTRACTOR SHALL OBTAIN AT HIS OWN EXPENSE ALL PERMITS AND ALL INSPECTIONS REQUIRED FROM FEDERAL AND STATE GOVERNMENTS, COUNTIES, MUNICIPALITIES AND OTHER REGULATORY AGENCIES WHICH MAY BE REQUIRED FOR THE PROJECT.
10. DETAILS ARE INTENDED TO SHOW END RESULT OF DESIGN. MINOR MODIFICATIONS MAY BE REQUIRED TO SUIT JOB DIMENSIONS OR CONDITIONS, AND SUCH MODIFICATIONS SHALL BE INCLUDED AS PART OF THE WORK.
11. ALL MATERIAL PROVIDED BY *CELLCO PARTNERSHIP d/b/a VERIZON WIRELESS* IS TO BE REVIEWED BY CONTRACTOR AND ALL APPLICABLE SUB-CONTRACTOR PRIOR TO INSTALLATION. ANY DEFICIENCIES TO PROVIDED MATERIALS SHALL BE BROUGHT TO THE CONSTRUCTION MANAGERS ATTENTION IMMEDIATELY.
12. THE MATERIALS INSTALLED IN THE WORK SHALL MEET THE REQUIREMENTS OF THE CONTRACT DOCUMENTS. NO SUBSTITUTIONS ARE ALLOWED.
13. CONTRACTOR IS SOLELY RESPONSIBLE FOR THE MEANS AND METHODS OF CONSTRUCTION, FOR SEQUENCES AND PROCEDURES TO BE USED, AND TO ENSURE THE SAFETY OF THE EXISTING BUILDING AND ITS COMPONENT DURING CONSTRUCTION. THIS INCLUDES THE ADDITION OF WHATEVER SHORING, BRACING, UNDERPINNING, ETC. THAT MAY BE NECESSARY.
14. CONTRACTOR SHALL COORDINATE ALL CIVIL, STRUCTURAL AND ELECTRICAL DRAWINGS FOR THE LOCATION OF ALL OPENINGS, RECESSES, BUILT-IN WORK, ETC.
15. CONTRACTOR SHALL RECEIVE CLARIFICATION IN WRITING AND SHALL RECEIVE IN WRITING AUTHORIZATION TO PROCEED BEFORE STARTING WORK ON ANY ITEMS NOT CLEARLY DEFINED OR IDENTIFIED BY THE CONTRACT DOCUMENTS.
16. CONTRACTOR SHALL NOTIFY THE CONSTRUCTION MANAGER OF ALL PRODUCTS OR ITEMS NOTED AS "EXISTING" WHICH ARE NOT FOUND TO BE IN THE FIELD.

17. ERECTION SHALL BE DONE IN A WORKMANLIKE MANNER BY COMPETENT EXPERIENCED WORKMEN IN ACCORDANCE WITH APPLICABLE CODES AND THE BEST-ACCEPTED PRACTICE. ALL MEMBERS SHALL BE LAID PLUMB AND TRUE AS INDICATED ON THE DRAWINGS.
18. CONTRACTOR SHALL BE RESPONSIBLE FOR THE SAFETY OF THE WORK AREA, ADJACENT AREAS, AND BUILDING OCCUPANTS THAT ARE LIKELY TO BE AFFECTED BY THE WORK UNDER THIS CONTRACT. WORK SHALL CONFORM TO ALL O.S.H.A REQUIREMENTS.
19. CONTRACTOR SHALL COORDINATE HIS WORK AND SCHEDULE HIS ACTIVITIES AND WORKING HOURS IN ACCORDANCE WITH THE REQUIREMENTS OF THE PROPERTY OWNER AND/OR PROPERTY MANAGEMENT COMPANY.
20. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING HIS WORK WITH THE WORK OF OTHERS AS IT MAY RELATE TO RADIO EQUIPMENT, ANTENNAS AND ANY OTHER PORTIONS OF THE WORK.
21. CONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS UNLESS SPECIFICALLY INDICATED OR WHERE LOCAL CODES OR REGULATIONS MAY TAKE PRECEDENCE.
22. CONTRACTOR SHALL MAKE NECESSARY PROVISIONS TO PROTECT EXISTING SURFACES, EQUIPMENT, IMPROVEMENTS, PIPING, ANTENNA AND ANTENNA CABLES AND REPAIR ANY DAMAGE THAT OCCURS DURING CONSTRUCTION.
23. CONTRACTOR SHALL REPAIR ALL EXISTING SURFACES DAMAGED DURING CONSTRUCTION SUCH THAT THEY MATCH AND BLEND WITH ADJACENT SURFACES.
24. CONTRACTOR SHALL KEEP CONTRACT AREA CLEAN, HAZARD FREE AND DISPOSE OF ALL DEBRIS AND RUBBISH. EQUIPMENT NOT SPECIFIED AS REMAINING ON THE PROPERTY OF THE OWNER SHALL BE REMOVED. LEAVE PREMISES IN CLEAN CONDITIONS AND FREE FROM PAINT SPOTS, DUST, OR SMUDGES OF ANY NATURE. CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ALL ITEMS UNTIL COMPLETION OF CONSTRUCTION.
25. BEFORE FINAL ACCEPTANCE OF THE WORK, CONTRACTOR SHALL REMOVE ALL EQUIPMENT, TEMPORARY WORKS, UNUSED AND USELESS MATERIALS, RUBBISH AND TEMPORARY STRUCTURES.



20 ALEXANDER DRIVE
WALLINGFORD, CT 06492



88 Foundry Pond Road
Cold Spring, NY 10516
201-456-4624
onair@optonline.net

LICENSURE



DAVID WEINPAHL, P.E.
CT LIC NO. 22144

SUBMITTALS	
0	12.12.20 REVIEW
1	05.07.21 PERMITTING/CONSTRUCTION

NO.	DATE	DESCRIPTION
DRAWN BY:		MF
CHECKED BY:		DW

PROJECT NAME:
**ANTMO
VZS01-CBRS
DESIGN EXHIBITS**

SITE NAME:
WETHERSFIELD CT

SITE ADDRESS:
**PUTNAM PARK
100 GREAT MEADOW RD.
WETHERSFIELD, CT 06109**

SHEET TITLE:
**GENERAL
CONSTRUCTION
NOTES**

SHEET NUMBER:
DE-10

LNx-6513DS-A1M



2-port sector antenna, 2x 698–896 MHz, 65° HPBW, factory attached actuator

- Extended tilt range offers better coverage
- Great solution to maximize network coverage and capacity
- Excellent gain, VSWR, front-to-back ratio, and PIM specifications for robust network performance
- Fully compatible with Andrew remote electrical tilt system for greater OpEx savings
- The RF connectors are designed for IP67 rating and the radome for IP56 rating

General Specifications

Antenna Type	Sector
Band	Single band
Color	Light gray
Grounding Type	RF connector inner conductor and body grounded to reflector and mounting bracket
Performance Note	Outdoor usage Wind loading figures are validated by wind tunnel measurements described in white paper WP-112534-EN
Radome Material	Fiberglass, UV resistant
Radiator Material	Aluminum
RF Connector Interface	7-16 DIN Female
RF Connector Location	Bottom
RF Connector Quantity, low band	2
RF Connector Quantity, total	2

Dimensions

Width	301 mm 11.85 in
Length	1390 mm 54.724 in
Length, with installed actuator	1553 mm 61.142 in
Depth	181 mm 7.126 in

Electrical Specifications

Impedance	50 ohm
Operating Frequency Band	698 – 896 MHz
Polarization	±45°

LNx-6513DS-A1M

Electrical Specifications

Frequency Band, MHz	698–806	806–896
Gain, dBi	14.6	15.1
Beamwidth, Horizontal, degrees	65	65
Beamwidth, Vertical, degrees	16	14.5
Beam Tilt, degrees	0–10	0–10
USLS, typical, dB	20	20
Front-to-Back Ratio at 180°, dB	30	30
CPR at Boresight, dB	12	12
CPR at Sector, dB	10	10
Isolation, Cross Polarization, dB	30	30
VSWR Return loss, dB	1.4 15.6	1.4 15.6
PIM, 3rd Order, 2 x 20 W, dBc	-150	-150
Input Power per Port, maximum, watts	400	400

Electrical Specifications, BASTA

Frequency Band, MHz	698–806	806–896
Beamwidth, Horizontal Tolerance, degrees	±3	±3

Mechanical Specifications

Wind Loading at Velocity, frontal	202.0 N @ 150 km/h 46.1 lbf @ 150 km/h
Wind Loading at Velocity, lateral	166.0 N @ 150 km/h 37.3 lbf @ 150 km/h
Wind Loading at Velocity, maximum	390.0 N @ 150 km/h 87.7 lbf @ 150 km/h
Wind Speed, maximum	241 km/h 149.75 mph

Packaging and Weights

Width, packed	411 mm 16.181 in
Depth, packed	284 mm 11.181 in
Length, packed	1706 mm 67.165 in
Net Weight, without mounting kit	14.8 kg 32.628 lb
Weight, gross	30.9 kg 68.123 lb

Regulatory Compliance/Certifications

Agency	Classification
CHINA-ROHS	Below maximum concentration value
ISO 9001:2015	Designed, manufactured and/or distributed under this quality management system

LNx-6513DS-A1M

ROHS

Compliant



Included Products

BSAMNT-3 — Wide Profile Antenna Downtilt Mounting Kit for 2.4 - 4.5 in (60 - 115 mm) OD round members. Kit contains one scissor top bracket set and one bottom bracket set.

* Footnotes

Performance Note Severe environmental conditions may degrade optimum performance

[CBRS] Clip-on Antenna Specifications

VzW accepted IP45 in FLD, but IP55 is Samsung Spec.

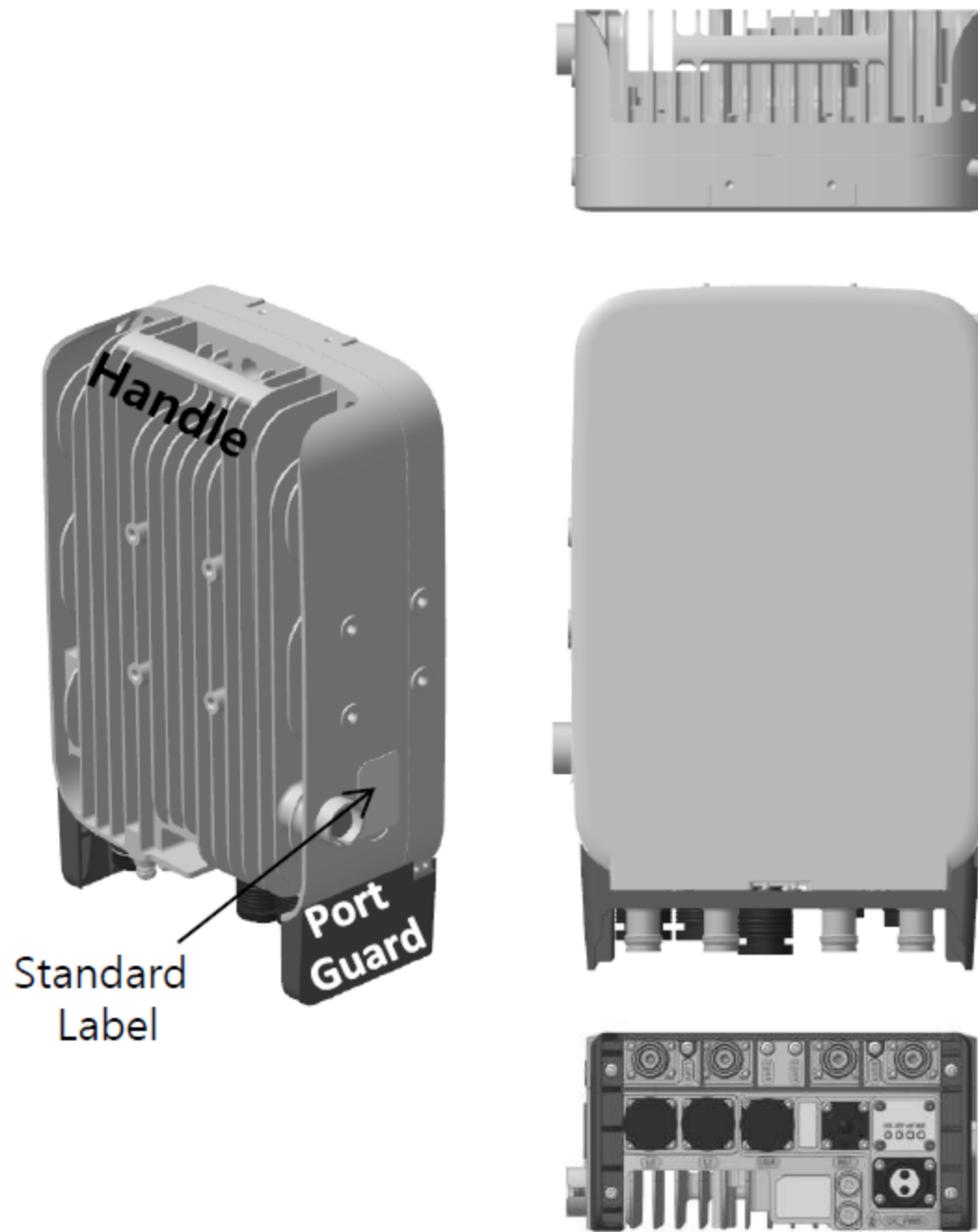


Items	Clip-on Antenna, BASTA**
Antenna Gain	12.5 ± 0.5 dBi (Max 13 dBi)
Horizontal BW (-3dB)	65° ± 5°
Vertical BW (-3dB)	17° ± 3°
Electrical Tilt	8° (fixed) ± 2°
Front-to-Back Ratio	> 25 dB
Port-to-Port Tracking	< 3 dB
VSWR	< 1.5
Isolation	> 25 dB
Ingress Protection	IP55
Size	220(W)×313(H)×34.3(D) mm (*) (8.7 x 12.3 x 1.4 inch.)
Weight	< 2.0 kg [Typ. 1.3 kg]
It is required that the radio should be weatherproofed properly with JMA WPS Boot with external antenna or with Weatherproof Boot for clip-on antennas.	

Antenna includes integrated cable with connector
 * Design is subject to minor change

** Ant. spec. follows NGMN recommendations on Base Station Antenna Standards (BASTA). For example, 'mean ± tolerance of 86.6%' is applied to double-sided specification of statistical RF parameters.

[CBRS RRH] Spec.



Current Size: 216 x 307 x 105.5 mm (6.99L)
 (8.5 x 12.1 x 4.1 inch., excluding Port Guard)
 Design is subject to minor change

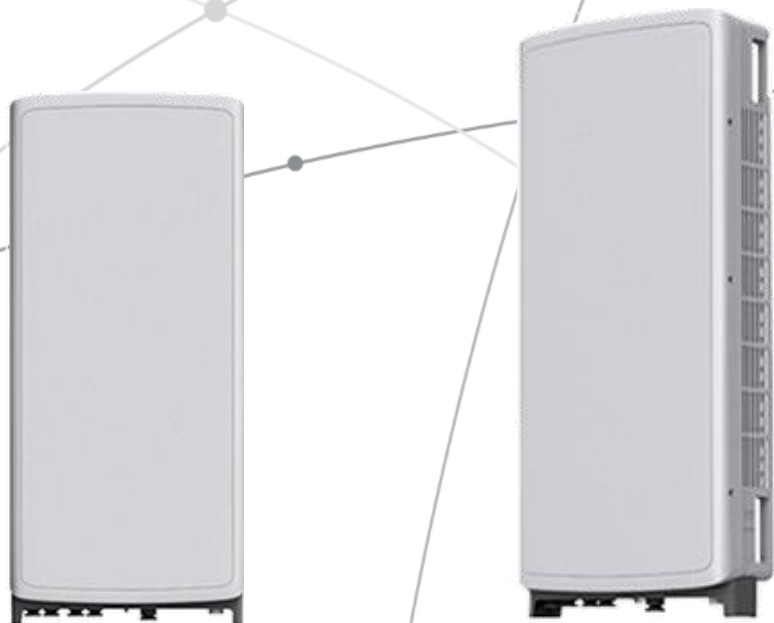
Item	Specification
Band	Band 48 (3.5 GHz)
Frequency	3550~3700 MHz
IBW	150 MHz
OBW	80 MHz
# of Carriers	5/10/15/20 MHz x 4 carriers
RF Chain	4TX / 4RX
RF Output Power & EIRP	4 path x 5 W (Total: 20 W = 43 dBm) (EIRP: 47 dBm / 10 MHz)
RX Sensitivity	Typical : -101.5 dBm @ 1 Rx (3GPP 36.104, Wide Area)
Modulation	256-QAM support (1024-QAM with 1~2dB power back-off)
Input Power	-48 VDC (-38 to -57 VDC, 1 SKU), with clip-on AC-DC converter (Option)
Power Consumption	About 160 Watt @ 100% RF load, typical conditions
Volume	Under 7L (w/o Antenna), Under 9.6L (with antenna)
Weight	Under 8.0 kg (18.64 lb) (w/o Antenna), Under 10.5 Kg (with ant.)
Operating Temperature	-40°C (-40°F) ~ 55°C (131°F) (W/o solar load)
Cooling	Natural convection
Unwanted Emission	3GPP 36.104 Category A [B48] : FCC 47 CFR 96.41 e)
Optic Interface	20km, 2 ports (9.8Gbps x 2), SFP, single mode, duplex or Bi-Di
CPRI Cascade	Not supported
# of Antenna Port	4
External Alarm (UDA)	4
RET	AISG 2.2
TMA & built-in Bias-T I//F and PIM cancellation	Not supported
Mounting Options	Pole, wall, tower, back to back, side by side (for external ant), 3 RRH with Clip-on Antenna on the pole
Antenna Type	Integrated (Clip-on) antenna (Option), External antenna (Option)
NB-IoT	Not Supported (HW Resource reserved for 1 Guard Band NB-IoT per LTE carrier)
Spectrum Analyzer	TX/RX Support
External Alarm (UDA)	4
5G NR	Support with S/W upgrade
XRAN	Support with S/W upgrade

SAMSUNG C-Band 64T64R Massive MIMO Radio

for High Capacity and Wide Coverage

Samsung C-Band 64T64R Massive MIMO Radio enables mobile operators to increase coverage range, boost data speeds and ultimately offer enriched 5G experiences to users in the U.S..

Model Code : MT6407-77A



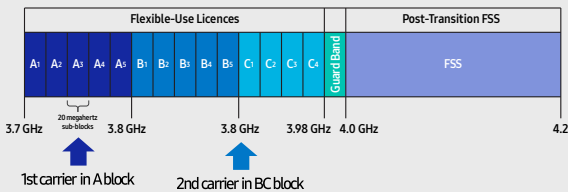
Points of Differentiation

Wide Bandwidth

With capability to support up to 2 CC carrier configuration, Samsung C-Band massive MIMO Radio supports 200 MHz bandwidth in the C-Band spectrum.

Samsung C-Band massive MIMO Radio covers the entire C-Band 280 MHz spectrum, so it can meet the operator's needs in current A block and future B/C blocks

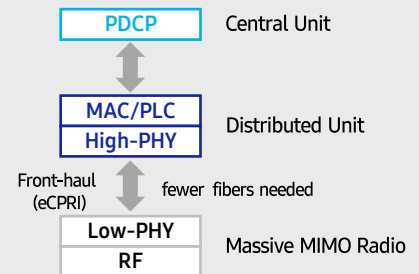
C-Band spectrum supported by Massive MIMO Radio



Future Proof Product

Samsung C-Band 64T64R Massive MIMO radio supports not only CPRI but also eCPRI as front-haul interface.

It enables operators can cut down on OPEX/CAPEX by reducing front-haul bandwidth through low layer split and using ethernet based higher efficient line.

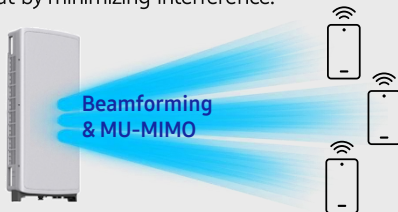


Enhanced Performance

C-Band massive MIMO Radio creates sharp beams and extends networks' coverage on the critical mid-band spectrum using a large number of antenna elements and high output power to boost data speeds.

This helps operators reduce their CAPEX as they now need less products to cover the same area than before.

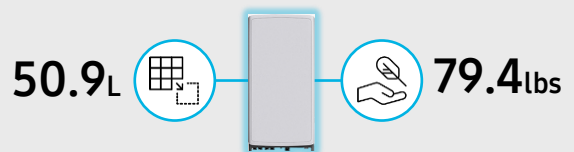
Furthermore, as C-Band massive MIMO Radio supports MU-MIMO (Multi-user MIMO), it enables to increase user throughput by minimizing interference.



Well Matched Design

Samsung C-Band Massive MIMO radio utilizes 64 antennas, supports up to 280MHz bandwidth, and delivers a 200W output power. despite the above advanced performance, the Radio has a compact size of 50.9L and 79.4lbs. This makes it easy to install the Radio.

It is designed to look solid and compact, with a low profile appearance so that, when installed, harmonizes well with the surrounding environment.



Technical Specifications

Item	Specification
Tech	NR
Band	n77
Frequency Band	3700 - 3980 MHz
EIRP	78.5dBm (53.0 dBm+25.5 dBi)
IBW/OBW	280 MHz / 200 MHz
Installation	Pole/Wall
Size/ Weight	16.06 x 35.06 x 5.51 inch (50.86L)/ 79.4 lbs

The Samsung logo is positioned in the top right corner. The background features several thin, light gray curved lines that sweep across the page, creating a sense of motion and connectivity. A small gray dot is located in the upper right quadrant, and several other dots are placed at various points where the lines intersect or curve.

SAMSUNG

About Samsung Electronics Co., Ltd.

Samsung inspires the world and shapes the future with transformative ideas and technologies. The company is redefining the worlds of TVs, smartphones, wearable devices, tablets, digital appliances, network systems, and memory, system LSI, foundry and LED solutions.

129 Samsung-ro, Yeongtong-gu, Suwon-si Gyeonggi-do, Korea

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ATTACHMENT 3

	General	Power	Density					
Site Name: Wethersfield								
Tower Height: Verizon @ 98ft, 100ft, and 101.5ft								
CARRIER	# OF CHAN.	WATTS ERP	HEIGHT	FREQ.	CALC. POWER DENS	MAX. PERMISS. EXP.	FRACTION MPE	Total
*T-Mobile	2	12	114	1950	0.0007	1.0000	0.01%	
T-Mobile	4	12	114	2100	0.0015	1.0000	0.01%	
VZW 700	4	684	100	751	0.0098	0.5007	1.96%	
VZW CDMA	2	386	100	877.26	0.0028	0.5848	0.48%	
VZW Cellular	4	825	100	874	0.0119	0.5827	2.04%	
VZW PCS	4	1395	100	1975	0.0201	1.0000	2.01%	
VZW AWS	4	1478	100	2120	0.0213	1.0000	2.13%	
VZW CBRS	4	11	98	3625	0.0002	1.0000	0.02%	
VZW CBAND	4	6531	101.5	3730.005	0.0912	1.0000	9.12%	
								17.78%
* Source: Siting Council								

ATTACHMENT 4

STRUCTURAL ANALYSIS REPORT

FOR

SITE NAME: WETHERSFIELD CT
PUTNAM PARK
100 GREAT MEADOW RD
WETHERSFIELD, CT 06109



PREPARED FOR:

verizon^v

WIRELESS COMMUNICATIONS FACILITY
20 ALEXANDER DRIVE
WALLINGFORD, CT 06492

On Air Engineering, LLC

88 FOUNDRY POND ROAD
COLD SPRING, NY 10516
ONAIR@OPTONLINE.NET
201-456-4624



PBA ENGINEERING, P.C.
Structural Engineers

12 KULICK ROAD
FAIRFIELD, NEW JERSEY 07004-3363
PHONE: (973) 276-1700
FAX: (973) 276-9766

PROJECT NO. N-522
DATE: 10/12/2021



Paul C. Beck, P.E.
Connecticut Professional Engineer
License No: 12949

CONTENTS

1. -PURPOSE
2. -REFERENCES
3. -BUILDING CODES
4. -EXISTING STRUCTURE & FIELD OBSERVATIONS
5. -PROPOSED VERIZON ANTENNA/EQUIPMENT CONFIGURATION
6. -RESULTS
7. -CONCLUSION
8. -APPENDIX A (CALCULATIONS)

1. PURPOSE

The purpose of this analysis is to determine whether the existing penthouse framing, building structure and Verizon equipment shelter located at 100 Great Meadow Rd, Wethersfield, Ct 06109 are adequate to support the proposed modifications to Verizon's antennas.

2. REFERENCES

1. Verizon CD's by On Air Engineering, LLC, dated: May 7, 2021.
2. Photographs and antenna frame supports.
3. ANTMO structural modifications by On Air Engineering, LLC, dated: April 29, 2021.
4. Structural/Mount Assessment Letter by On Air Engineering, LLC, dated: April 23, 2020.
5. Shelter DWGs by United Structures INC., dated: March 26, 2001.

3. BUILDING CODES

1. 2018 Connecticut State Building Code.
2. 2015 International Building Code.
3. ASCE/SEI 7-16 (Minimum Design Loads for Buildings and Other Structures).

4. EXISTING STRUCTURE & FIELD OBSERVATIONS

Verizon has a 3-sector antenna configuration located on the roof with 2-sectors (Alpha & Beta) on the rooftop penthouse façade and a third sector (Gamma) mounted to their metal framed equipment shelter façade. The Alpha/Beta antennas and accessory equipment are mounted to steel pipe masts which are supported on rooftop penthouse C6x8.2 channel steel columns. Verizon proposes to replace several existing antennas with new antennas. There are no proposed changes to Verizon's accessory equipment.

5. PROPOSED VERIZON ANTENNA/EQUIPMENT CONFIGURATION (TYP. EA. SECTOR)

- a. (1) LNX 850-CDMA Antenna.
- b. (2) SBNHH Antenna on 'SBS' brackets.
- c. (1) CBRS Antenna/RRH.
- d. (1) MT6407-77A Antenna/RRH.
- e. (1) AWS/PCS Dual-Band RRH.
- f. (1) 700/850 Dual-Band RRH.
- g. (1) Raycap OVP (none used at Gamma sector).

6. RESULTS

A structural analysis was completed on the penthouse C6x8.2 steel coulumn against the wind lateral and the gravity loads caused by the proposed equipment. The C6x8.2 coulumn is found

to be at 83% capacity, which is structurally adequate to support the proposed antennas/equipment.

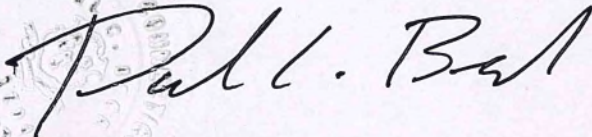
7. CONCLUSION

The rooftop penthouse framing, building structure and the shelter are capable of supporting the existing and proposed Verizon equipment.

This analysis is based on the information provided to our office and is assumed to correctly depict the existing condition. The existing roof and foundation are assumed to be installed properly and in a professional manner.

If you have any questions concerning the items contained within this report, please do not hesitate to contact our office.

Sincerely,
PBA ENGINEERING, P.C.



Paul C. Beck

Paul C. Beck, P.E.
Connecticut Professional Engineer
License No: 12949

PCB/mf

APPENDIX (A)

(APPENDIX N) MUNICIPALITY - SPECIFIC STRUCTURAL DESIGN PARAMETERS

Municipality	Ground Snow Load (psf)	Wind Design Parameters										Hurricane-Prone Regions
		MCE Spectral Acceleration s (%g)		Ultimate Design Wind Speeds, V_{ult} (mph)			Nominal Design Wind Speeds, V_{asd} (mph)			Wind-Borne Debris Regions ¹		
		S_s	S_1	Risk Cat. I	Risk Cat. II	Risk Cat III-IV	Risk Cat. I	Risk Cat. II	Risk Cat. III-IV	Risk Cat. II & III except Occup. I-2	Risk Cat III Occup I-2 & Risk Cat. IV	
Simsbury	35	0.179	0.064	110	120	130	85	93	101			Yes
Somers	35	0.174	0.064	115	125	135	89	97	105			Yes
Southbury	35	0.198	0.065	110	120	130	85	93	101			Yes
Southington	30	0.185	0.064	115	125	135	89	97	105			Yes
South Windsor	30	0.178	0.064	115	125	135	89	97	105			Yes
Sprague	30	0.171	0.061	120	130	140	93	101	108		Type A	Yes
Stafford	35	0.173	0.064	115	125	135	89	97	105			Yes
Stamford	30	0.249	0.069	110	120	130	85	93	101			Yes
Sterling	35	0.170	0.061	125	135	145	97	105	112		Type A	Yes
Stonington	30	0.159	0.058	125	140	150	97	108	116	Type B	Type A	Yes
Stratford	30	0.201	0.064	115	125	135	89	97	105		Type B	Yes
Suffield	35	0.176	0.065	110	120	130	85	93	101			Yes
Thomaston	35	0.186	0.064	110	120	130	85	93	101			Yes
Thompson	40	0.172	0.063	120	130	140	93	101	108			Yes
Tolland	35	0.175	0.064	115	125	135	89	97	105			Yes
Torrington	40	0.182	0.065	110	120	125	85	93	97			Yes
Trumbull	30	0.207	0.065	115	125	135	89	97	105			Yes
Union	40	0.172	0.064	115	125	135	89	97	105			Yes
Vernon	30	0.177	0.064	115	125	135	89	97	105			Yes
Voluntown	30	0.168	0.060	125	135	145	97	105	112		Type A	Yes
Wallingford	30	0.183	0.063	115	125	135	89	97	105			Yes
Warren	40	0.186	0.065	105	115	125	81	89	97			
Washington	35	0.192	0.065	105	120	125	81	93	97			Yes
Waterbury	35	0.189	0.064	110	125	130	85	97	101			Yes
Waterford	30	0.161	0.058	125	135	145	97	105	112	Type B	Type A	Yes
Watertown	35	0.189	0.064	110	120	130	85	93	101			Yes
Westbrook	30	0.167	0.059	120	135	145	93	105	112	Type B	Type A	Yes
West Hartford	30	0.181	0.064	115	125	135	89	97	105			Yes
West Haven	30	0.188	0.062	115	125	135	89	97	105		Type B	Yes
Weston	30	0.224	0.067	110	120	130	85	93	101			Yes
Westport	30	0.226	0.067	110	120	130	85	93	101		Type B	Yes
Wethersfield	30	0.181	0.064	115	125	135	89	97	105			Yes
Willington	35	0.174	0.063	115	125	135	89	97	105			Yes
Wilton	30	0.231	0.068	110	120	130	85	93	101			Yes
Winchester	40	0.177	0.065	105	120	125	81	93	97			Yes
Windham	30	0.173	0.062	120	130	140	93	101	108			Yes
Windsor	35	0.179	0.064	115	125	135	89	97	105			Yes
Windsor Locks	35	0.177	0.064	110	125	130	85	97	101			Yes
Wolcott	35	0.187	0.064	110	125	130	85	97	101			Yes
Woodbridge	30	0.191	0.063	115	125	135	89	97	105			Yes
Woodbury	35	0.194	0.065	110	120	130	85	93	101			Yes
Woodstock	40	0.172	0.063	120	130	140	93	101	108			Yes

MecaWind v2362

Software Developer: Meca Enterprises Inc., www.meca.biz, Copyright © 2020

Calculations Prepared by:
Client: On Air Engineering
Date: Jan 07, 2021
Designer: WJZ
Description:
Wethersfield, CT

Calculations Prepared For:
Project #: N-522

File Location : U:\Bill\N-522 Putnam Park, Wethersfield, CT\N-522 Revised.wnd

Basic Wind Parameters

Wind Load Standard	= ASCE 7-16	Exposure Category	= C
Wind Design Speed	= 125.0 mph	Risk Category	= II
Structure Type	= Other	Other Structure Type	= Solid Sign

General Wind Settings

	= ASCE 7-16 Wind Parameters	=
Incl_LF	= Include ASD Load Factor of 0.6 in Pressures	= False
DynType	= Dynamic Type of Structure	= Rigid
NF	= Natural Frequency of Structure (Mode 1)	= 1.000 Hz
Zg	= Altitude (Ground Elevation) above Sea Level	= 20.000 ft
Bdist	= Base Elevation of Structure	= 91.167 ft
GenElev	= Specify the Elevations For Wind Pressures	= Mean Roof Ht
Reacs	= Show the Base Reactions in the output	= False
MWFRSType	= MWFRS Method Selected	= Ch 27 Pt 1

Topographic Factor per Fig 26.8-1

Topo	= Topographic Feature	= None
Kzt	= Topographic Factor	= 1.000

Solid Sign Inputs

: Solid Sign	=	h : Height to Top of Sign	= 19.167 ft
B : Horizontal Width of Sign	= 1.000 ft	Lr : Dimension of return corner	= 0.600 ft
s : Vertical Height of Sign	= 6.000 ft	e : Solidity Ratio	= 1.000
Att: Attached to Wall	= False		

Exposure Constants per Table 26.11-1:

Alpha: Table 26.11-1 Const	= 9.500	Zg: Table 26.11-1 Const	= 900.000 ft
At: Table 26.11-1 Const	= 0.105	Bt: Table 26.11-1 Const	= 1.000
Am: Table 26.11-1 Const	= 0.154	Bm: Table 26.11-1 Const	= 0.650
C: Table 26.11-1 Const	= 0.200	Eps: Table 26.11-1 Const	= 0.200

Gust Factor Calculation:

Gust Factor Category I Rigid Structures - Simplified Method		
G1 = For Rigid Structures (Nat. Freq.>1 Hz) use 0.85		= 0.85
Gust Factor Category II Rigid Structures - Complete Analysis		
Zm = 0.6 * Ht		= 15.000 ft
Izm = Cc * (33 / Zm) ^ 0.167		= 0.228
Lzm = L * (Zm / 33) ^ Epsilon		= 427.057
Q = (1 / (1 + 0.63 * ((B + Ht) / Lzm)^0.63))^0.5		= 0.957
G2 = 0.925 * ((1 + 1.7 * lzm^3.4 * Q) / (1 + 1.7 * 3.4 * lzm))		= 0.902
Gust Factor Used in Analysis		
G = Lessor Of G1 Or G2		= 0.850

Main Wind Force Resisting System (MWFRS) Calculations for Solid Sign per Ch 29:

LF	= Load Factor based upon STRENGTH Design	= 1.00
hs	= Overall height of structure	= 19.167 ft
h	= Mean Roof Height above grade	= 110.334 ft
Kh	= 15 ft [4.572 m] < Z < Zg --> (2.01 * (Z/zg)^(2/Alpha)) {Table 26.10-1}	= 1.292
Kzt	= Topographic Factor is 1 since no Topographic feature specified	= 1.000
Kd	= Wind Directionality Factor per Table 26.6-1	= 0.85
qh	= (0.00256 * Kh * Kzt * Kd * Ke * V^2) * LF	= 43.90 psf

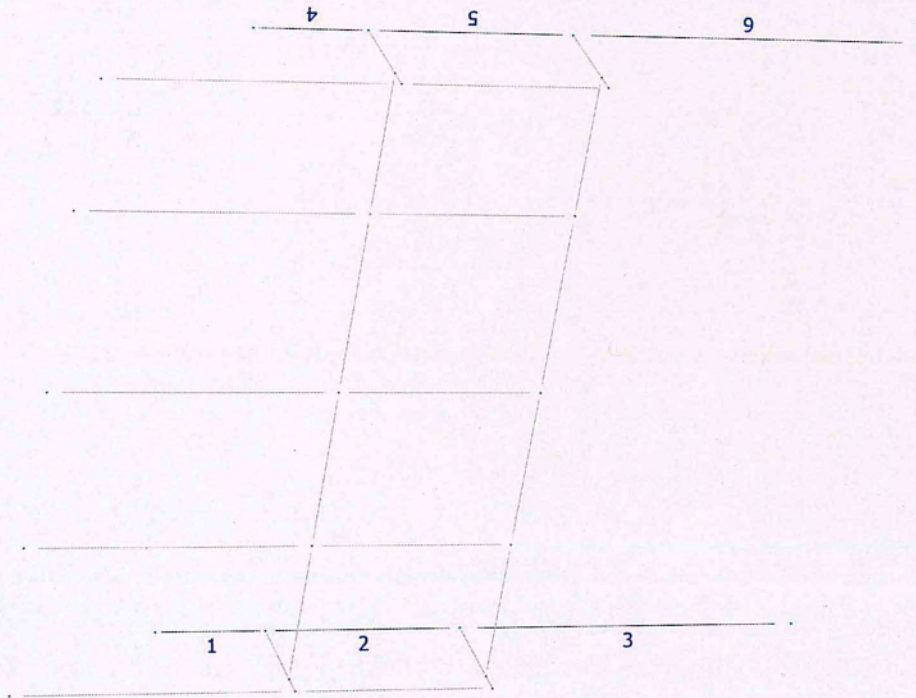
MWFRS Pressures on Solid Sign per Fig 29.3-1:

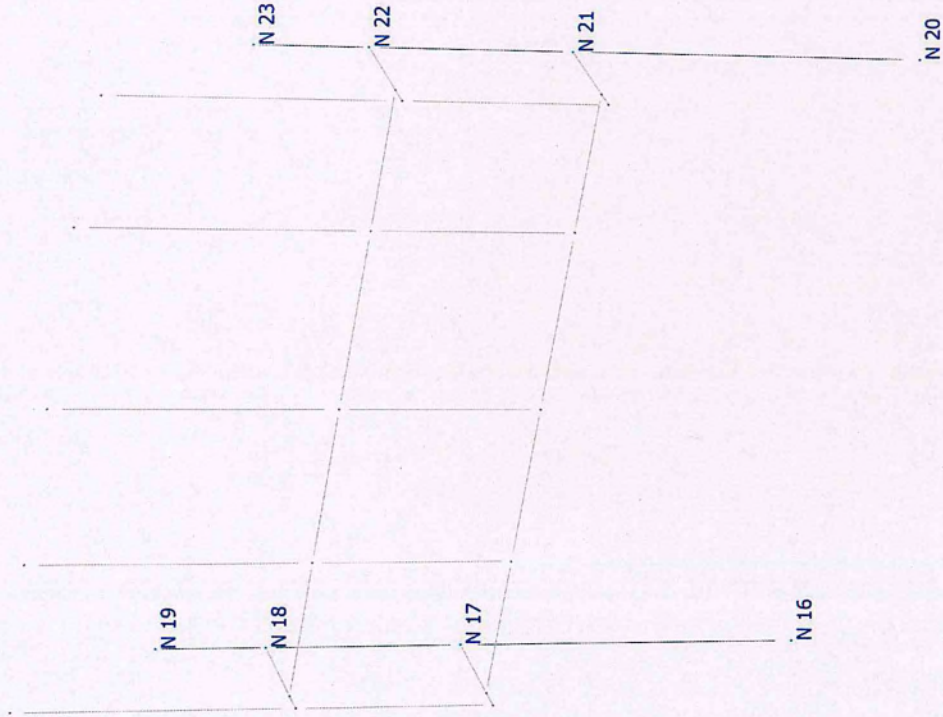
R	= Reduction factor to account for openings: (1 - (1 - e)^1.5)	= 1.000
Rc	= Reduction factor for Case C not applicable since s/h <= 0.8	= 1.000
As	= Gross Area of Sign: B * s	= 6.00 sq ft
B/s	= Aspect Ratio: B / s	= 0.167
s/h	= Clearance Ratio: s / h	= 0.313
Cf	= Net Force Coefficient for Case A and B per Fig 29.3-1	= 1.860

Case A: Resultant force acts normal to face through geometric center
F = Design Wind force: $q_h * G * C_f * A_s * R$ = 416 lb

Case B: Resultant force acts normal to face at a distance from the geometric center toward the windward edge equal to 0.2 times the average width
Dx = Force Offset from Center toward windward edge: $0.2 * B$ = 0.200 ft
F = Design Wind force: $q_h * G * C_f * A_s * R$ = 416 lb

Case C: Since $B/s < 2$ then Case C need not be considered





Geometry data

GLOSSARY

Cb22, Cb33	: Moment gradient coefficients
Cm22, Cm33	: Coefficients applied to bending term in interaction formula
d0	: Tapered member section depth at J end of member
DJX	: Rigid end offset distance measured from J node in axis X
DJY	: Rigid end offset distance measured from J node in axis Y
DJZ	: Rigid end offset distance measured from J node in axis Z
DKX	: Rigid end offset distance measured from K node in axis X
DKY	: Rigid end offset distance measured from K node in axis Y
DKZ	: Rigid end offset distance measured from K node in axis Z
dL	: Tapered member section depth at K end of member
Ig factor	: Inertia reduction factor (Effective Inertia/Gross Inertia) for reinforced concrete members
K22	: Effective length factor about axis 2
K33	: Effective length factor about axis 3
L22	: Member length for calculation of axial capacity
L33	: Member length for calculation of axial capacity
LB pos	: Lateral unbraced length of the compression flange in the positive side of local axis 2
LB neg	: Lateral unbraced length of the compression flange in the negative side of local axis 2
RX	: Rotation about X
RY	: Rotation about Y
RZ	: Rotation about Z
TO	: 1 = Tension only member 0 = Normal member
TX	: Translation in X
TY	: Translation in Y
TZ	: Translation in Z

Nodes

Node	X [ft]	Y [ft]	Z [ft]	Rigid Floor
16	0.00	0.00	0.00	0
17	0.00	7.9167	0.00	0
18	0.00	12.4167	0.00	0
19	0.00	14.9167	0.00	0
20	14.5833	0.00	0.00	0
21	14.5833	7.9167	0.00	0
22	14.5833	12.4167	0.00	0
23	14.5833	14.9167	0.00	0

Restraints

Node	TX	TY	TZ	RX	RY	RZ
16	1	1	1	0	0	0
19	1	1	1	0	0	0
20	1	1	1	0	0	0
23	1	1	1	0	0	0

Members

Member	NJ	NK	Description	Section	Material	d0 [in]	dL [in]	Ig factor
1	18	19		C 6X8.2	A36	0.00	0.00	0.00
2	17	18		C 6X8.2	A36	0.00	0.00	0.00
3	16	17		C 6X8.2	A36	0.00	0.00	0.00
4	22	23		C 6X8.2	A36	0.00	0.00	0.00
5	21	22		C 6X8.2	A36	0.00	0.00	0.00
6	20	21		C 6X8.2	A36	0.00	0.00	0.00

Orientation of local axes

Member	Rotation [Deg]	Axes23	NX	NY	NZ
1	90.00	0	0.00	0.00	0.00
2	90.00	0	0.00	0.00	0.00
3	90.00	0	0.00	0.00	0.00
4	90.00	0	0.00	0.00	0.00
5	90.00	0	0.00	0.00	0.00
6	90.00	0	0.00	0.00	0.00



Units system: English

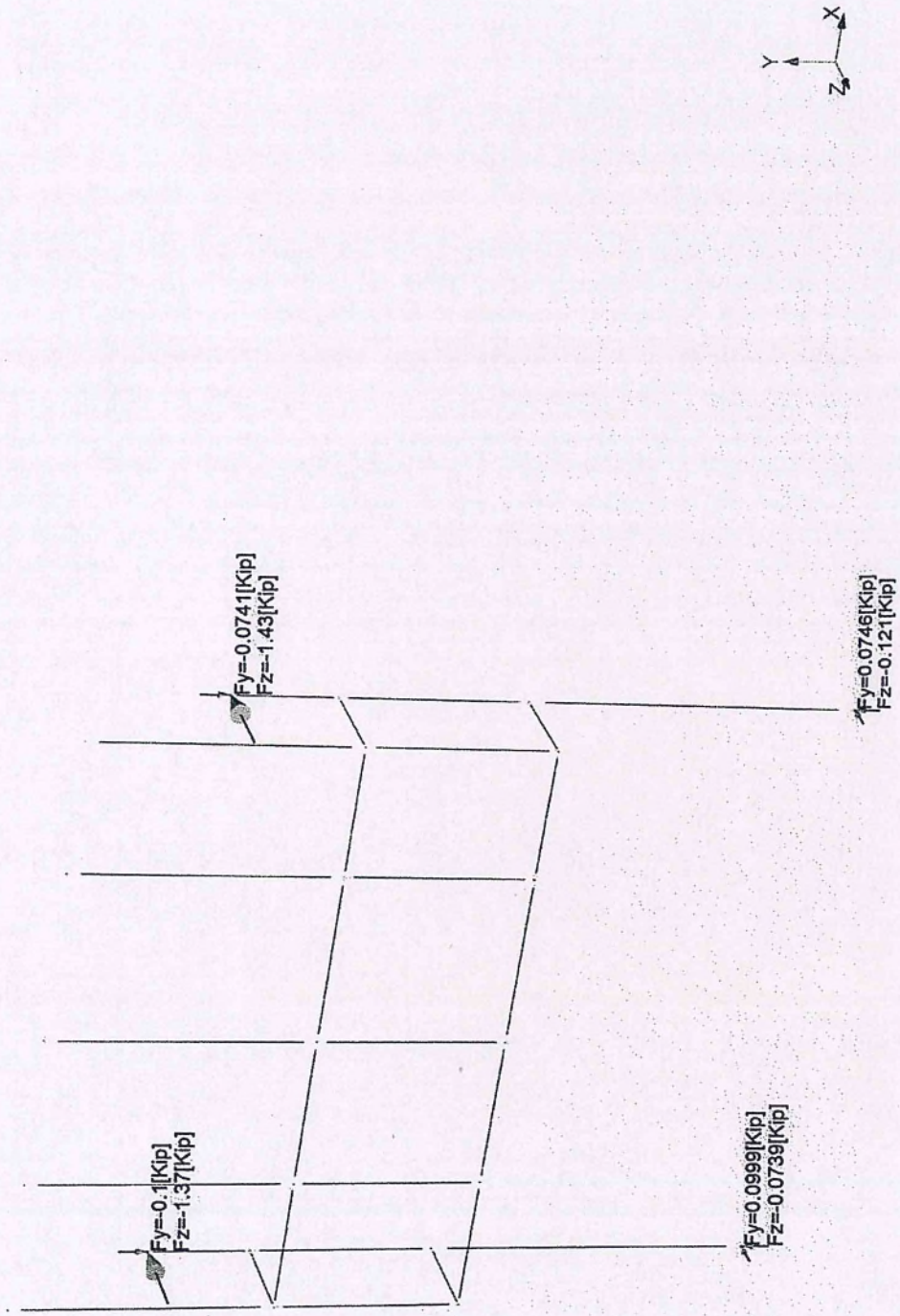
Steel Code Check

Report: Summary - Group by member

Load conditions to be included in design :

D1=1.4DL
D2=1.2DL+0.5W
D3=1.2DL+W
D4=0.9DL+W

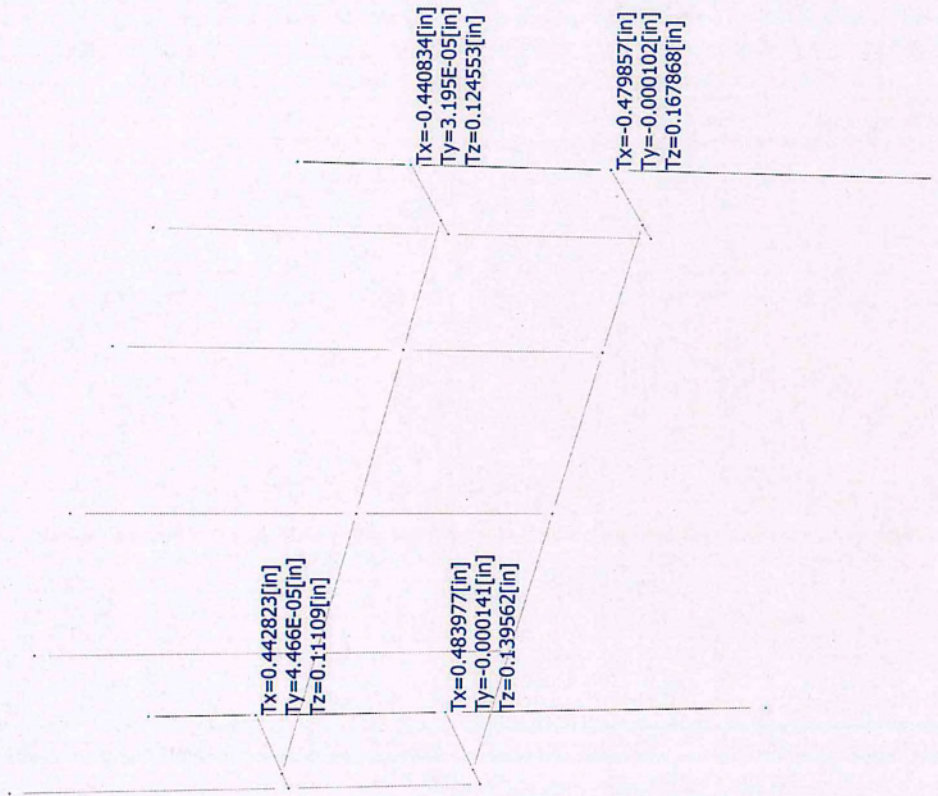
Description	Section	Member	Ctrl Eq.	Ratio	Status	Reference
	C 6X8.2	1	D3 at 0.00%	0.82	OK	Eq. H1-1b
		2	D4 at 100.00%	0.52	OK	Eq. H1-1b
		3	D1 at 100.00%	0.08	OK	Eq. H1-1b
		4	D3 at 0.00%	0.83	OK	Eq. H1-1b
		5	D4 at 100.00%	0.52	OK	Eq. H1-1b
		6	D4 at 100.00%	0.09	OK	Eq. H1-1b

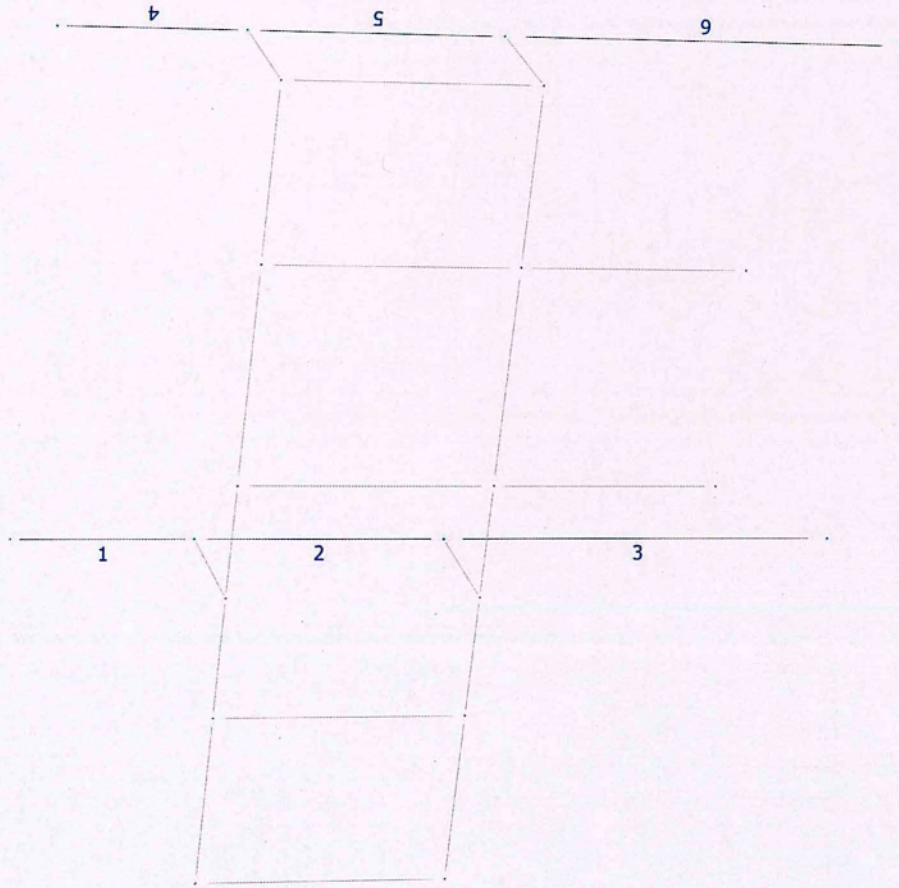




Bentley

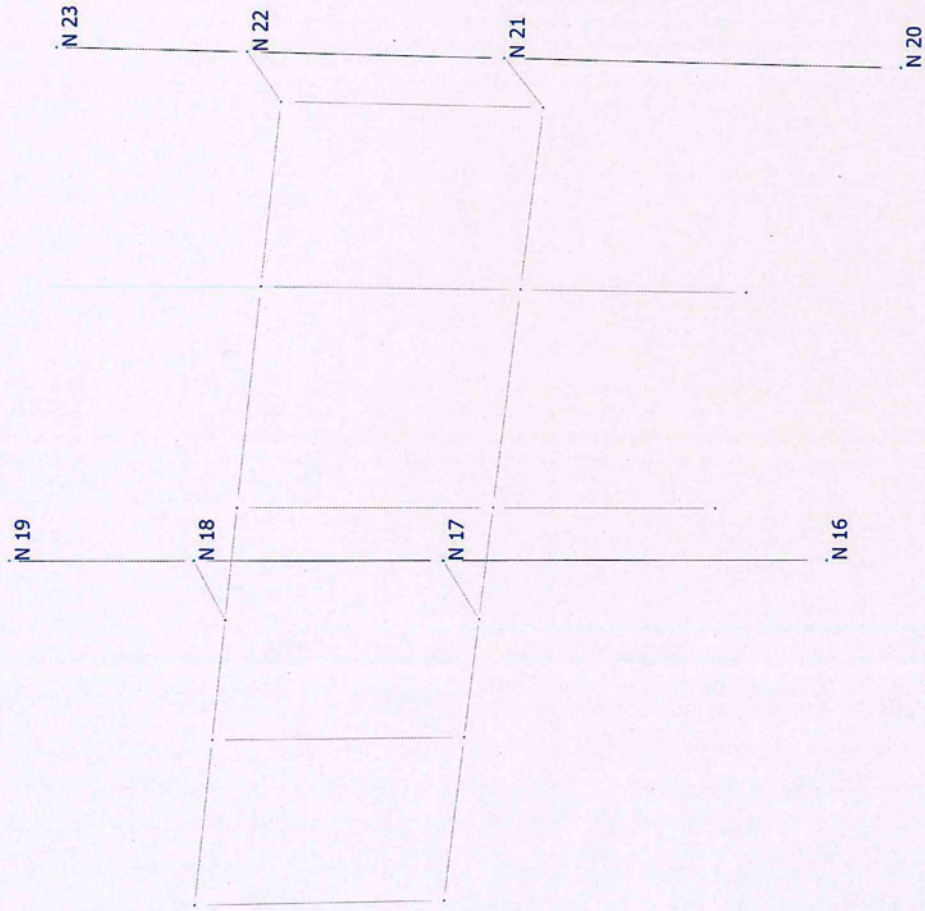
Units system: English
Load condition: W=Wind Load







Units system: English
Load condition: DL=Dead Load



Geometry data

GLOSSARY

Cb22, Cb33	: Moment gradient coefficients
Cm22, Cm33	: Coefficients applied to bending term in interaction formula
d0	: Tapered member section depth at J end of member
DJX	: Rigid end offset distance measured from J node in axis X
DJY	: Rigid end offset distance measured from J node in axis Y
DJZ	: Rigid end offset distance measured from J node in axis Z
DKX	: Rigid end offset distance measured from K node in axis X
DKY	: Rigid end offset distance measured from K node in axis Y
DKZ	: Rigid end offset distance measured from K node in axis Z
dL	: Tapered member section depth at K end of member
Ig factor	: Inertia reduction factor (Effective Inertia/Gross Inertia) for reinforced concrete members
K22	: Effective length factor about axis 2
K33	: Effective length factor about axis 3
L22	: Member length for calculation of axial capacity
L33	: Member length for calculation of axial capacity
LB pos	: Lateral unbraced length of the compression flange in the positive side of local axis 2
LB neg	: Lateral unbraced length of the compression flange in the negative side of local axis 2
RX	: Rotation about X
RY	: Rotation about Y
RZ	: Rotation about Z
TO	: 1 = Tension only member 0 = Normal member
TX	: Translation in X
TY	: Translation in Y
TZ	: Translation in Z

Nodes

Node	X [ft]	Y [ft]	Z [ft]	Rigid Floor
16	5.4167	0.00	0.00	0
17	5.4167	7.1667	0.00	0
18	5.4167	11.6667	0.00	0
19	5.4167	14.9167	0.00	0
20	14.75	0.00	0.00	0
21	14.75	7.1667	0.00	0
22	14.75	11.6667	0.00	0
23	14.75	14.9167	0.00	0

Restraints

Node	TX	TY	TZ	RX	RY	RZ
16	1	1	1	0	0	0
19	1	1	1	0	0	0
20	1	1	1	0	0	0
23	1	1	1	0	0	0

Members

Member	NJ	NK	Description	Section	Material	d0 [in]	dL [in]	Ig factor
1	18	19		C 6X8.2	A36	0.00	0.00	0.00
2	17	18		C 6X8.2	A36	0.00	0.00	0.00
3	16	17		C 6X8.2	A36	0.00	0.00	0.00
4	22	23		C 6X8.2	A36	0.00	0.00	0.00
5	21	22		C 6X8.2	A36	0.00	0.00	0.00
6	20	21		C 6X8.2	A36	0.00	0.00	0.00

Orientation of local axes

Member	Rotation [Deg]	Axes23	NX	NY	NZ
1	90.00	0	0.00	0.00	0.00
2	90.00	0	0.00	0.00	0.00
3	90.00	0	0.00	0.00	0.00
4	90.00	0	0.00	0.00	0.00
5	90.00	0	0.00	0.00	0.00
6	90.00	0	0.00	0.00	0.00



Units system: English

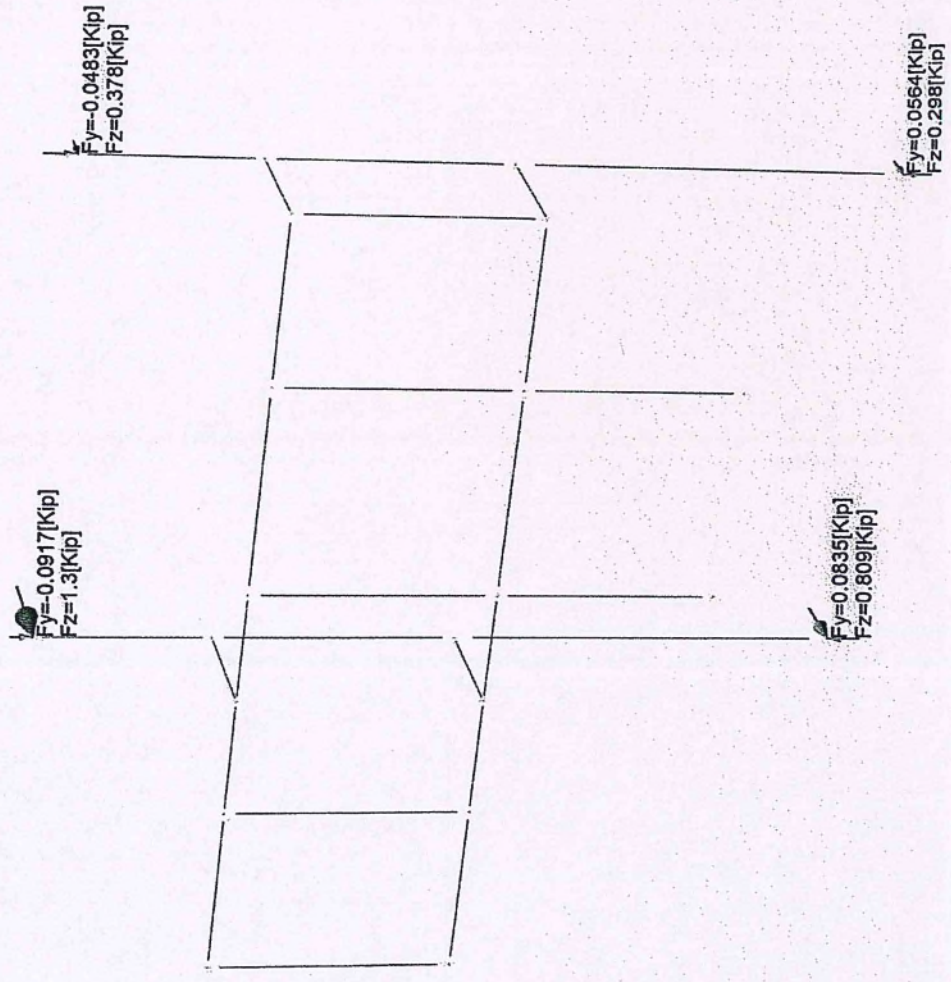
Steel Code Check

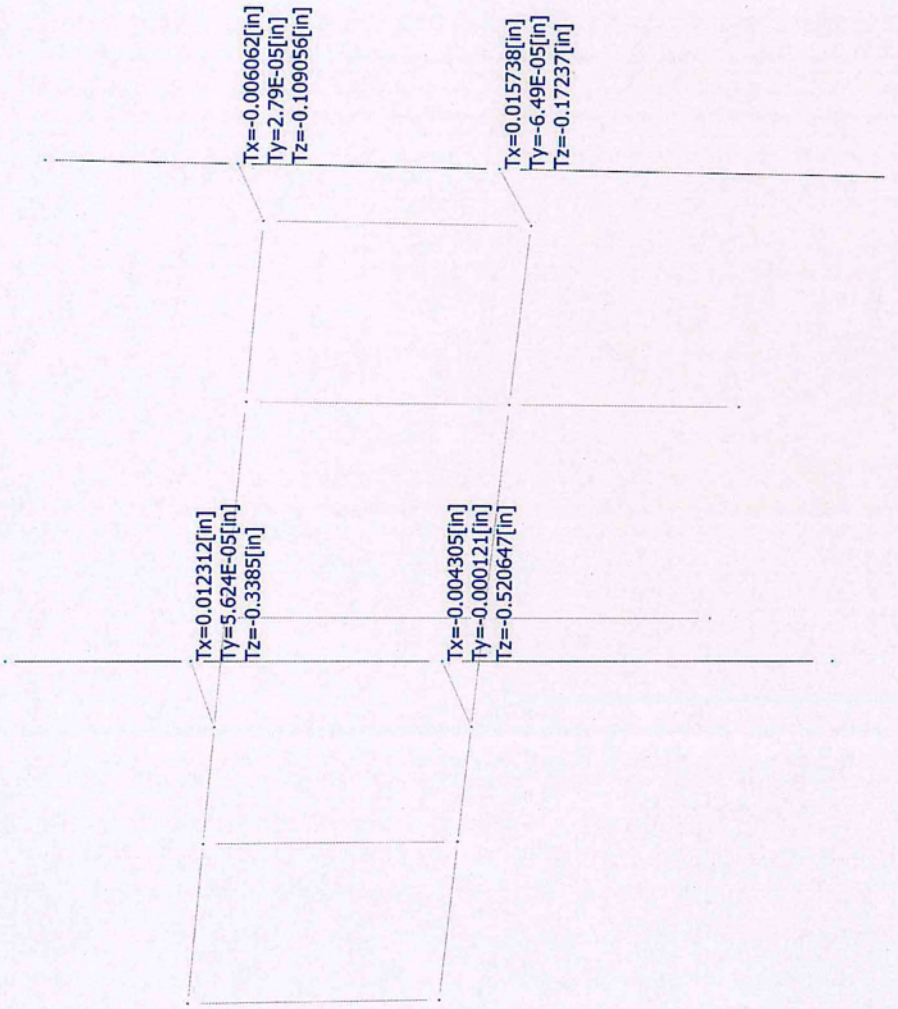
Report: Summary - Group by member

Load conditions to be included in design :

D1=1.4DL
D2=1.2DL+0.5W
D3=1.2DL+W
D4=0.9DL+W

Description	Section	Member	Ctrl Eq.	Ratio	Status	Reference
	C 6X8.2	1	D4 at 0.00%	0.29	OK	Eq. H1-1b
		2	D3 at 0.00%	0.41	OK	Eq. H1-1b
		3	D3 at 100.00%	0.52	OK	Eq. H1-1b
		4	D3 at 0.00%	0.12	OK	Eq. H1-1b
		5	D3 at 0.00%	0.17	OK	Eq. H1-1b
		6	D3 at 100.00%	0.23	OK	Eq. H1-1b







WIRELESS COMMUNICATIONS FACILITY

SITE NAME:
WETHERSFIELD CT

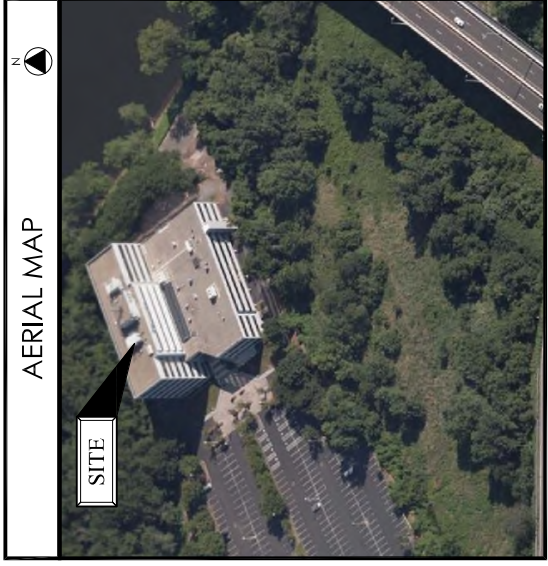
PUTNAM PARK
100 GREAT MEADOW RD.
WETHERSFIELD, CT 06109

STRUCTURAL MOUNT MODIFICATIONS

PROJECT SUMMARY

SITE NAME:	WETHERSFIELD CT
SITE ADDRESS:	100 GREAT MEADOW RD. WETHERSFIELD, CT 06109
PROPERTY OWNER:	100 GREAT MEADOW ROAD ASSOC. LLC 100 GREAT MEADOW RD. WETHERSFIELD, CT 06109
PARCEL ID:	286-001
COORDINATES:	41° 42' 50.65" N 72° 38' 37.50" W
VERIZON CONSTRUCTION:	WALTER CHARCZYNSKI (860) 306-1806
VERIZON REAL ESTATE:	ALEX TYURIN (860) 550-3195

AERIAL MAP



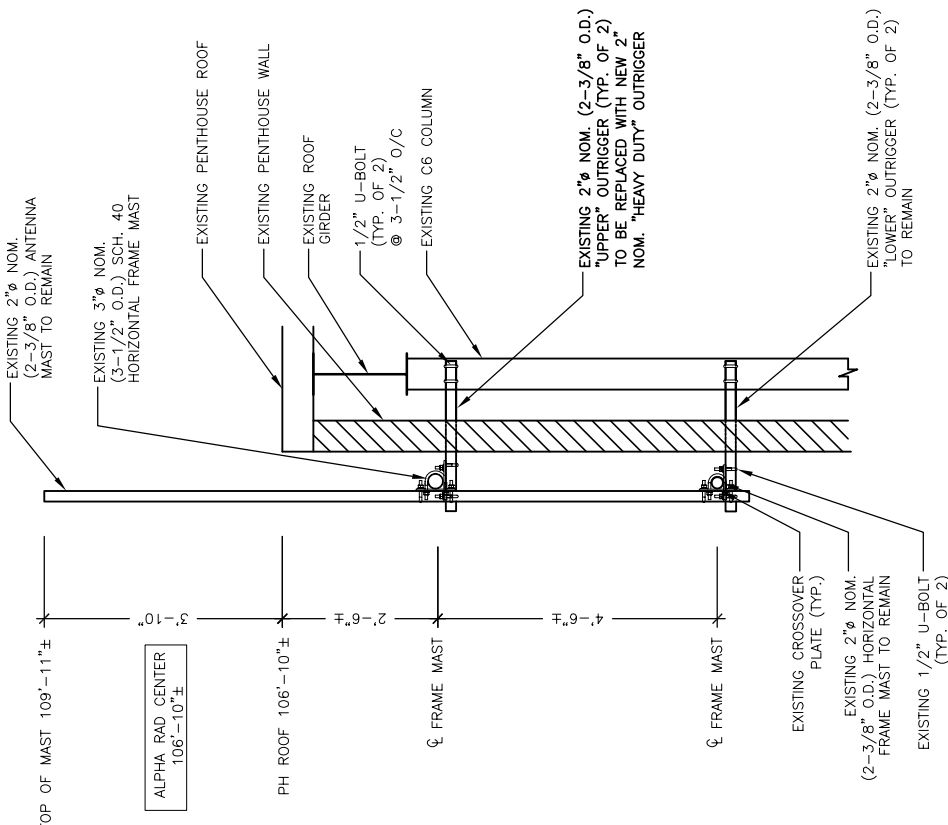
SHEET INDEX

T-1	TITLE SHEET
A-1	PARTIAL ROOF PLAN
S-1	ALPHA REINFORCEMENT DETAIL
S-2	BETAGAMMA REINFORCEMENT DETAILS
G-1	GENERAL CONSTRUCTION NOTES

 WIRELESS COMMUNICATIONS FACILITY	20 ALEXANDER DRIVE WALLINGFORD, CT 06492	 On Air Engineering, LLC 88 Foundry Pond Road Cold Spring, NY 10516 914-637-8888 onair@onairllc.net		DAVIS WEISBACH, P.E. C.T. LICENSE #22144 SUBMITTALS REVIEW	NO. DATE DESCRIPTION DRAWN BY: MF CHECKED BY: DW
			PROJECT NAME: STRUCTURAL MOUNT MODIFICATIONS		
			SITE NAME: WETHERSFIELD CT		
			SITE ADDRESS: PUTNAM PARK 100 GREAT MEADOW RD. WETHERSFIELD, CT 06109		
			SHEET TITLE: TITLE SHEET		
			SHEET NUMBER: T-1		

STRUCTURAL NOTES

- DESIGN REQUIREMENTS ARE PER STATE BUILDING CODE AND APPLICABLE SUPPLEMENTS, ANSI/ASCE7, IIA-222-G STRUCTURAL STANDARDS FOR STEEL ANTENNA SUPPORTING STRUCTURES.
- CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS IN THE FIELD PRIOR TO FABRICATION AND ERECTION OF ANY MATERIAL. ANY UNUSUAL CONDITIONS SHALL BE REPORTED TO THE ATTENTION OF THE CONSTRUCTION MANAGER.
- DESIGN AND CONSTRUCTION OF STRUCTURAL STEEL SHALL CONFORM TO THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION "SPECIFICATION FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS."
- WIDE FLANGE STRUCTURAL STEEL SHALL CONFORM TO ASTM A992. MISCELLANEOUS STEEL SHALL CONFORM TO ASTM A36. STEEL PIPE SHALL CONFORM TO ASTM A500 "COLD-FORMED WELDED & SEAMLESS CARBON STEEL STRUCTURAL TUBING" GRADE A, OR ASTM S53 PIPE STEEL BLACK AND HOT-DIPPED ZINC-COATED WELDED AND SEAMLESS TYPE E, OR S, GRADE B. PIPE SIZES INDICATED ARE NOMINAL. ACTUAL OUTSIDE DIAMETER IS LARGER.
- STRUCTURAL CONNECTION BOLTS SHALL BE HIGH STRENGTH BOLTS (BEARING TYPE) AND CONFORM TO ASTM A325 "HIGH STRENGTH BOLTS FOR STRUCTURAL JOINTS, INCLUDING SUITABLE NUTS AND PLAIN HARDENED WASHERS." ALL BOLTS SHALL BE 3/4" (U.O.N.)
- ALL STEEL MATERIALS SHALL BE GALVANIZED AFTER FABRICATION IN ACCORDANCE WITH ASTM A123 "ZINC (HOT-DIP GALVANIZED) COATINGS ON IRON AND STEEL PRODUCTS", UNLESS OTHERWISE NOTED.
- ALL BOLTS, ANCHORS AND MISCELLANEOUS HARDWARE SHALL BE GALVANIZED IN ACCORDANCE WITH ASTM A153 "ZINC-COATING (HOT-DIP) ON IRON AND STEEL HARDWARE", UNLESS OTHERWISE NOTED.
- FIELD WELDS, DRILL HOLES, SAW CUTS AND ALL DAMAGED GALVANIZED SURFACES SHALL BE REPAIRED WITH AN ORGANIC ZINC REPAIR PAINT COMPLYING WITH REQUIREMENTS OF ATM A780. GALVANIZING REPAIR PAINT SHALL HAVE 65 PERCENT ZINC BY WEIGHT, ZIRP BY DUNCAN GALVANIZING, GALVA BRIGHT PREMIUM BY CROWN OR EQUAL. THICKNESS OF APPLIED GALVANIZING REPAIR PAINT SHALL BE NOT LESS THAN 4 COATS (ALLOW TIME TO DRY BETWEEN COATS) WITH A RESULTING COATING THICKNESS REQUIRED BY ASTM A123 OF A153 AS APPLICABLE.
- CONTRACTOR SHALL COMPLY WITH AWS CODE PROCEDURES, APPEARANCE AND QUALITY OF WELDS AND FOR METHODS USED IN CORRECTING WELDING. ALL WELDERS AND WELDING PROCESSES SHALL BE QUALIFIED IN ACCORDANCE WITH AWS "STANDARD QUALIFICATION PROCEDURES". ALL WELDING SHALL BE DONE USING E70XX ELECTRODES AND WELDING SHALL CONFORM TO AWS AND D.I.I. WHERE FILLET WELD SIZES ARE NOT SHOWN, PROVIDE THE "MINIMUM" SIZE PER TABLE J2.4 IN THE AISC "MANUAL OF STEEL CONSTRUCTION", 14TH EDITION.
- INCORRECTLY FABRICATED, DAMAGED OR OTHERWISE MISFITTING OR NONCONFORMING MATERIALS OR CONDITIONS SHALL BE REPORTED TO THE CONSTRUCTION MANAGER PRIOR TO REMEDIAL OR CORRECTIVE ACTION. ANY SUCH ACTION SHALL REQUIRE CONSTRUCTION MANAGER APPROVAL.

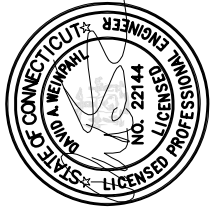


1 ALPHA FRAME SECTION
Scale: 1/2"=1'-0"



WIRELESS COMMUNICATIONS FACILITY
20 ALEXANDER DRIVE
WALLINGFORD, CT 06492

On Air Engineering, LLC
88 Foundry Pond Road
Cold Spring, N.Y. 10516
onaire@onairllc.net



SUBMITTALS	
NO.	DATE

REVIEW	
NO.	DATE

DESCRIPTION	
DRAWN BY:	NJF
CHECKED BY:	DW

PROJECT NAME:
STRUCTURAL MOUNT MODIFICATIONS

SITE NAME:
WETHERSFIELD CT

SITE ADDRESS:
**PUTNAM PARK
100 GREAT MEADOW RD.
WETHERSFIELD, CT 06109**

SHEET TITLE:
ALPHA REINFORCEMENT DETAIL

SHEET NUMBER:
S-1



WIRELESS COMMUNICATIONS FACILITY

20 ALEXANDER DRIVE
WALLINGFORD, CT 06492

On Air Engineering, LLC
88 Foundry Pond Road
Cold Spring, NY 10516
914.423.4444
onaire@optonline.net

LICENSEE:



DAVID WEINSAHL, P.E.
CT LICENSE 22144

SUBMITTALS		
NO.	DATE	DESCRIPTION

NO. DATE DESCRIPTION
DRAWN BY: MF
CHECKED BY: DW

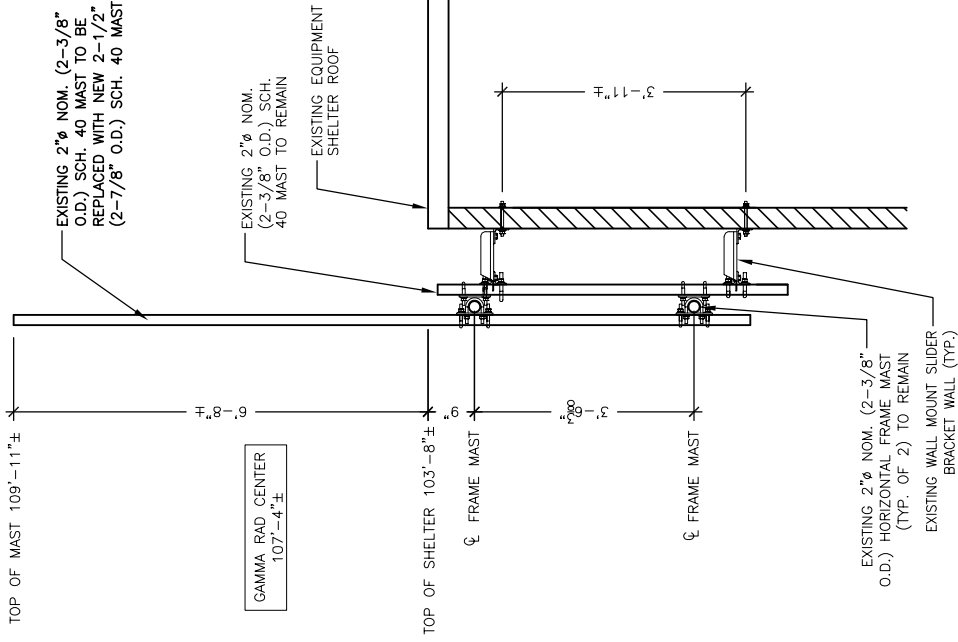
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**STRUCTURAL
MOUNT
MODIFICATIONS**

SITE NAME:
WETHERSFIELD CT

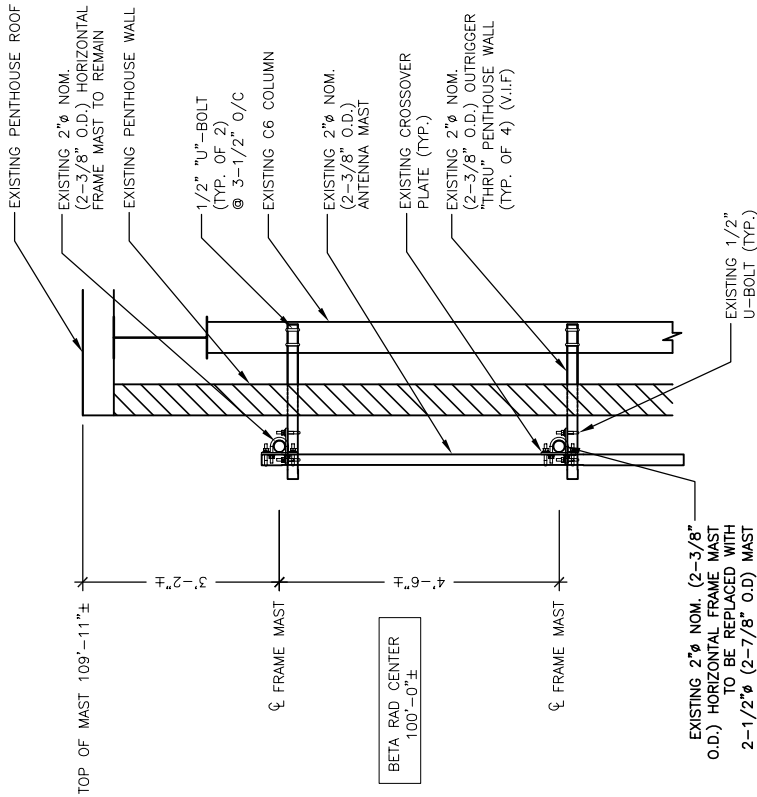
SITE ADDRESS:
**PUTNAM PARK
100 GREAT MEADOW RD.
WETHERSFIELD, CT 06109**

SHEET TITLE:
**BETA/GAMMA
REINFORCEMENT
DETAILS**

SHEET NUMBER:
S-2



2 GAMMA FRAME SECTION
Scale: 1/2"=1'-0"



1 BETA FRAME SECTION
Scale: 1/2"=1'-0"

GENERAL CONSTRUCTION NOTES:

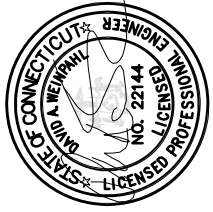
1. CONTRACTOR SHALL NOT COMMENCE ANY WORK UNTIL HE OBTAINS, AT HIS OWN EXPENSE, ALL INSURANCE REQUIRED BY *CELCO PARTNERSHIP d/b/g VERIZON WIRELESS*. THE PROPERTY OWNER AND/OR PROPERTY MANAGEMENT COMPANY.
2. ALL WORK SHALL BE DONE IN ACCORDANCE WITH ALL APPLICABLE CODES AND REGULATIONS AND ALL LOCAL LAWS AND REGULATIONS, CURRENT EDITIONS.
3. CONTRACTOR SHALL VISIT THE JOB SITE AND FAMILIARIZE HIMSELF WITH ALL CONDITIONS AFFECTING THE PROPOSED WORK AND MAKE PROVISIONS AS TO THE COST THEREOF. CONTRACTOR SHALL BE RESPONSIBLE FOR FAMILIARIZING HIMSELF WITH ALL CONTRACT DOCUMENTS, FIELD CONDITIONS, AND DIMENSIONS AND CONFIRMING THAT THE WORK MAY BE ACCOMPLISHED AS SHOWN PRIOR TO PROCEEDING WITH CONSTRUCTION. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO THE COMMENCEMENT OF WORK.
4. CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS, ELEVATIONS, ANGLES AND EXISTING CONDITIONS AT THE SITE PRIOR TO FABRICATION AND/OR INSTALLATION OF ANY WORK IN THE CONTRACT AREA AND SUBMIT TO THE ENGINEER ANY DISCREPANCIES FROM THE DRAWINGS.
5. CONTRACTOR IS TO REVIEW ALL DRAWINGS AND SPECIFICATIONS IN THE CONTRACT DOCUMENT SET. CONTRACTOR SHALL COORDINATE ALL WORK SHOWN IN THE SET OF DRAWINGS. CONTRACTOR SHALL PROVIDE A COMPLETE SET OF DRAWINGS TO ALL SUB-CONTRACTORS AND ALL RELATED PARTIES. THE SUB-CONTRACTORS SHALL EXAMINE ALL THE DRAWINGS AND SPECIFICATIONS FOR THE INFORMATION THAT AFFECTS THEIR WORK.
6. CONTRACTOR SHALL PROVIDE A COMPLETE BUILD-OUT WITH ALL FINISHES STRUCTURAL, MECHANICAL AND ELECTRICAL COMPONENTS AND PROVIDE ALL ITEMS AS SHOWN OR INDICATED ON DRAWINGS OR WRITTEN IN SPECIFICATIONS.
7. CONTRACTOR SHALL FURNISH ALL MATERIAL, LABOR AND EQUIPMENT TO COMPLETE THE WORK AND FURNISH A COMPLETED JOB IN ACCORDANCE WITH LOCAL AND STATE GOVERNING AUTHORITIES AND OTHER AUTHORITIES HAVING LAWFUL JURISDICTION OVER THE WORK.
8. CONTRACTOR SHALL OBTAIN AT HIS OWN EXPENSE ALL PERMITS AND ALL INSPECTIONS REQUIRED FROM FEDERAL AND STATE GOVERNMENTS, COUNTIES, MUNICIPALITIES AND OTHER REGULATORY AGENCIES WHICH MAY BE REQUIRED FOR THE PROJECT.
10. DETAILS ARE INTENDED TO SHOW END RESULT OF DESIGN. MINOR MODIFICATIONS MAY BE REQUIRED TO SUIT JOB DIMENSIONS OR CONDITIONS, AND SUCH MODIFICATIONS SHALL BE INCLUDED AS PART OF THE WORK.
11. ALL MATERIAL PROVIDED BY *CELCO PARTNERSHIP d/b/g VERIZON WIRELESS* IS TO BE REVIEWED BY CONTRACTOR AND ALL APPLICABLE SUB-CONTRACTOR PRIOR TO INSTALLATION. ANY DEFICIENCIES TO PROVIDED MATERIALS SHALL BE BROUGHT TO THE CONSTRUCTION MANAGERS ATTENTION IMMEDIATELY.
12. THE MATERIALS INSTALLED IN THE WORK SHALL MEET THE REQUIREMENTS OF THE CONTRACT DOCUMENTS. NO SUBSTITUTIONS ARE ALLOWED.
13. CONTRACTOR IS SOLELY RESPONSIBLE FOR THE MEANS AND METHODS OF CONSTRUCTION, FOR SEQUENCES AND PROCEDURES TO BE USED, AND TO ENSURE THE SAFETY OF THE EXISTING BUILDING AND ITS COMPONENT DURING CONSTRUCTION. THIS INCLUDES THE ADDITION OF WHATEVER SHORING, BRACING, UNDERPINNING, ETC. THAT MAY BE NECESSARY.
14. CONTRACTOR SHALL COORDINATE ALL CIVIL, STRUCTURAL AND ELECTRICAL DRAWINGS FOR THE LOCATION OF ALL OPENINGS, RECESSES, BUILT-IN WORK, ETC.
15. CONTRACTOR SHALL RECEIVE CLARIFICATION IN WRITING AND SHALL RECEIVE IN WRITING AUTHORIZATION TO PROCEED BEFORE STARTING WORK ON ANY ITEMS NOT CLEARLY DEFINED OR IDENTIFIED BY THE CONTRACT DOCUMENTS.
16. CONTRACTOR SHALL NOTIFY THE CONSTRUCTION MANAGER OF ALL PRODUCTS OR ITEMS NOTED AS "EXISTING" WHICH ARE NOT FOUND TO BE IN THE FIELD.

17. ERECTION SHALL BE DONE IN A WORKMANLIKE MANNER BY COMPETENT EXPERIENCED WORKMEN IN ACCORDANCE WITH APPLICABLE CODES AND THE BEST-ACCEPTED PRACTICE. ALL MEMBERS SHALL BE LAID PLUMBS AND TRUE AS INDICATED ON THE DRAWINGS.
18. CONTRACTOR SHALL BE RESPONSIBLE FOR THE SAFETY OF THE WORK AREA, ADJACENT AREAS, AND BUILDING OCCUPANTS THAT ARE LIKELY TO BE AFFECTED BY THE WORK UNDER THIS CONTRACT. WORK SHALL CONFORM TO ALL O.S.H.A. REQUIREMENTS.
19. CONTRACTOR SHALL COORDINATE HIS WORK AND SCHEDULE HIS ACTIVITIES AND WORKING HOURS IN ACCORDANCE WITH THE REQUIREMENTS OF THE PROPERTY OWNER AND/OR PROPERTY MANAGEMENT COMPANY.
20. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING HIS WORK WITH THE WORK OF OTHERS AS IT MAY RELATE TO RADIO EQUIPMENT, ANTENNAS AND ANY OTHER PORTIONS OF THE WORK.
21. CONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS UNLESS SPECIFICALLY INDICATED OR WHERE LOCAL CODES OR REGULATIONS MAY TAKE PRECEDENCE.
22. CONTRACTOR SHALL MAKE NECESSARY PROVISIONS TO PROTECT EXISTING SURFACES, EQUIPMENT, IMPROVEMENTS, PIPING, ANTENNA AND ANTENNA CABLES AND REPAIR ANY DAMAGE THAT OCCURS DURING CONSTRUCTION.
23. CONTRACTOR SHALL REPAIR ALL EXISTING SURFACES DAMAGED DURING CONSTRUCTION SUCH THAT THEY MATCH AND BLEND WITH ADJACENT SURFACES.
24. CONTRACTOR SHALL KEEP CONTRACT AREA CLEAN, HAZARD FREE AND DISPOSE OF ALL DEBRIS AND RUBBISH. EQUIPMENT NOT SPECIFIED AS REMAINING ON THE PROPERTY OF THE OWNER SHALL BE REMOVED. LEAVE PREMISES IN CLEAN CONDITIONS AND FREE FROM PAINT SPOTS, DUST OR SLUDGES OF ANY NATURE. CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ALL ITEMS UNTIL COMPLETION OF CONSTRUCTION.
25. BEFORE FINAL ACCEPTANCE OF THE WORK, CONTRACTOR SHALL REMOVE ALL EQUIPMENT, TEMPORARY WORKS, UNUSED AND USELESS MATERIALS, RUBBISH AND TEMPORARY STRUCTURES.



WIRELESS COMMUNICATIONS FACILITY
 20 ALEXANDER DRIVE
 WALLINGFORD, CT 06492

On Air Engineering, LLC
 88 Foundry Pond Road
 Cold Spring, NY 10516
 onair@ponline.net



DAVID WEISBACH, P.E. CT LICENSE #22144	
SUBMITTALS	
NO.	DATE
1	04/24/14
2	
3	
4	
5	
6	
7	
8	
9	
10	
NO.	DATE
DESCRIPTION	
DRAWN BY:	NF
CHECKED BY:	DW

PROJECT NAME:
**STRUCTURAL
 MOUNT
 MODIFICATIONS**

SITE NAME:
WETHERSFIELD CT

SITE ADDRESS:
**PUTNAM PARK
 100 GREAT MEADOW RD.
 WETHERSFIELD, CT 06109**

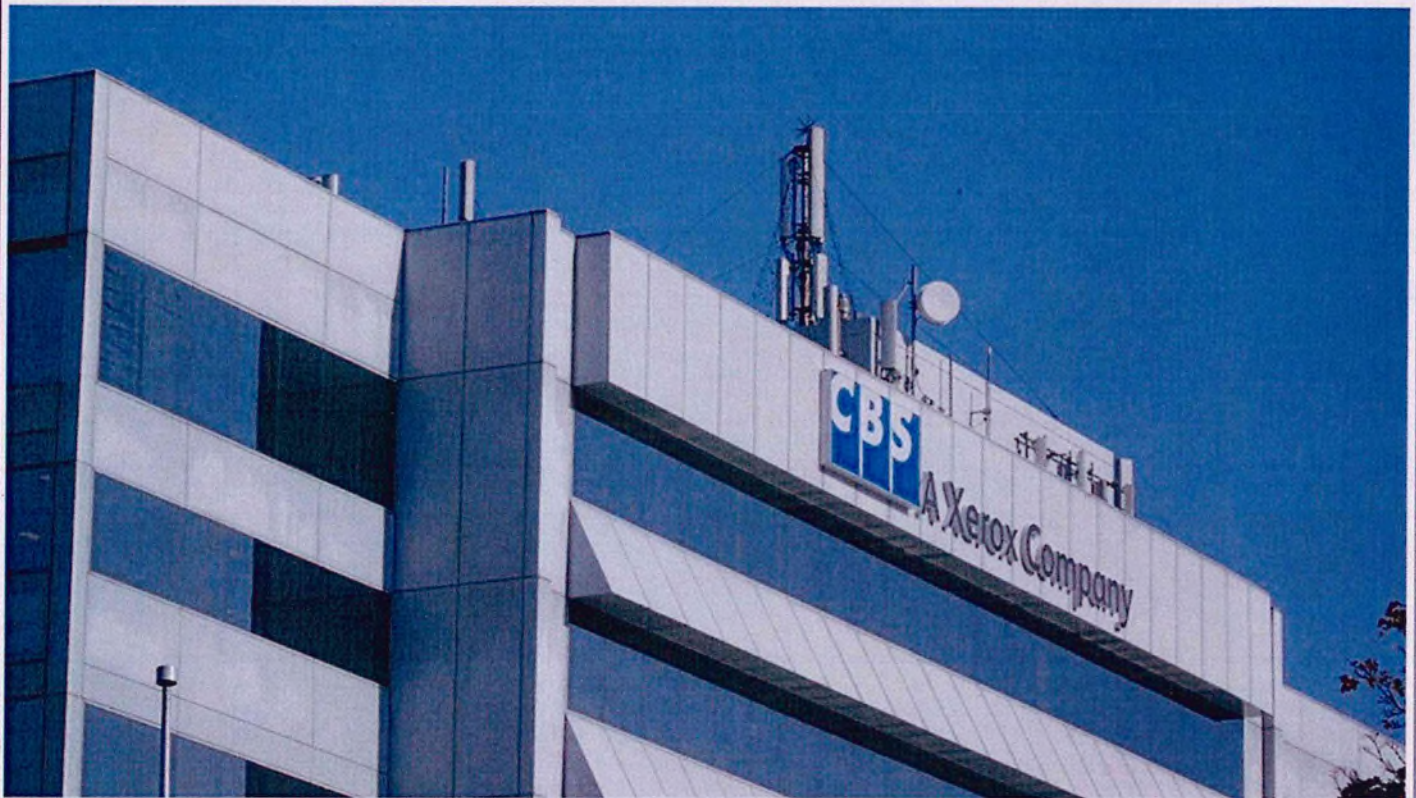
SHEET TITLE:
**GENERAL
 CONSTRUCTION
 NOTES**

SHEET NUMBER:
G-1

MOUNT ANALYSIS REPORT

FOR

SITE NAME: WETHERSFIELD CT
PUTNAM PARK
100 GREAT MEADOW RD
WETHERSFIELD, CT 06109



PREPARED FOR:

verizon[✓]

WIRELESS COMMUNICATIONS FACILITY
20 ALEXANDER DRIVE
WALLINGFORD, CT 06492

On Air Engineering, LLC

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PBA ENGINEERING, P.C.
Structural Engineers

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FAIRFIELD, NEW JERSEY 07004-3363
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PROJECT NO. N-522
DATE: 05/10/2021



Paul C. Beck, P.E.
Connecticut Professional Engineer
License No: 12949

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1. -PURPOSE
2. -REFERENCES
3. -BUILDING CODES
4. -EXISTING STRUCTURE & FIELD OBSERVATIONS
5. -PROPOSED VERIZON ANTENNA/EQUIPMENT CONFIGURATION
6. -RESULTS
7. -CONCLUSION
8. -APPENDIX A (CALCULATIONS)

1. PURPOSE

The purpose of this analysis is to determine whether the existing mounting frames located at 100 Great Meadow Rd, Wethersfield, Ct 06109 are adequate to support the proposed modifications to Verizon's antennas.

2. REFERENCES

1. Verizon CD's by On Air Engineering, LLC, dated: May 7, 2021.
2. Photographs and antenna frame supports.
3. ANTMO structural modifications by On Air Engineering, LLC, dated: April 29, 2021.
4. Structural/Mount Assessment Letter by On Air Engineering, LLC, dated: April 23, 2020.
5. Shelter DWGs by United Structures INC., dated: March 26, 2001.

3. BUILDING CODES

1. 2018 Connecticut State Building Code.
2. 2015 International Building Code.
3. ASCE/SEI 7-16 (Minimum Design Loads for Buildings and Other Structures).

4. EXISTING STRUCTURE & FIELD OBSERVATIONS

Verizon has a 3-sector antenna configuration located on the roof with 2-sectors (Alpha & Beta) on the rooftop penthouse facade and a third sector (Gamma) mounted to their metal framed equipment shelter facade. The Alpha/Gamma antennas are cantilevered above the roofs and Beta antennas flush mounted. Verizon proposes to replace several existing antennas with new antennas. There are no proposed changes to Verizon's accessory equipment.

5. PROPOSED VERIZON ANTENNA/EQUIPMENT CONFIGURATION (TYP. EA. SECTOR)

- a. (1) LNX 850-CDMA Antenna.
- b. (2) SBNHH Antenna on 'SBS' brackets.
- c. (1) CBRS Antenna/RRH.
- d. (1) MT6407-77A Antenna /RRH.
- e. (1) AWS/PCS Dual-Band RRH.
- f. (1) 700/850 Dual-Band RRH.
- g. (1) Raycap OVP (none used at Gamma sector).

6. RESULTS

A mounting analysis was completed on the existing antenna support system against the wind lateral and the gravity loads caused by the proposed equipment. The antenna support system is structurally adequate with some minor structural modifications. Several pipe mast supports

must be replaced with larger masts due to the additional antenna loading proposed. Details for these structural mount modifications are included within ANTMO Structural Modifications by On Air Engineering, LLC, dated: April 29, 2021.

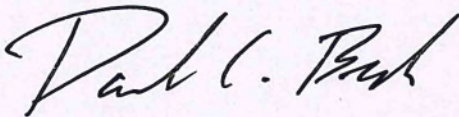
7. CONCLUSION

By replacing several pipe mast supports, the antenna support system is capable of supporting the existing and proposed Verizon equipment.

This analysis is based on the information provided to our office and is assumed to correctly depict the existing condition. The existing roof and foundation are assumed to be installed properly and in a professional manner.

If you have any questions concerning the items contained within this report, please do not hesitate to contact our office.

Sincerely,
PBA ENGINEERING, P.C.



Paul C. Beck, P.E.
Connecticut Professional Engineer
License No: 12949



PCB/mf

APPENDIX (A)

(APPENDIX N) MUNICIPALITY - SPECIFIC STRUCTURAL DESIGN PARAMETERS

Municipality	Ground Snow Load (psf)	Wind Design Parameters											Hurricane-Prone Regions
		MCE Spectral Acceleration s (%g)		Ultimate Design Wind Speeds, V_{ult} (mph)			Nominal Design Wind Speeds, V_{asd} (mph)			Wind-Borne Debris Regions ¹			
		S_s	S_1	Risk Cat. I	Risk Cat. II	Risk Cat III-IV	Risk Cat. I	Risk Cat. II	Risk Cat. III-IV	Risk Cat. II & III except Occup I-2	Risk Cat III Occup I-2 & Risk Cat. IV		
Simsbury	35	0.179	0.064	110	120	130	85	93	101			Yes	
Somers	35	0.174	0.064	115	125	135	89	97	105			Yes	
Southbury	35	0.198	0.065	110	120	130	85	93	101			Yes	
Southington	30	0.185	0.064	115	125	135	89	97	105			Yes	
South Windsor	30	0.178	0.064	115	125	135	89	97	105			Yes	
Sprague	30	0.171	0.061	120	130	140	93	101	108		Type A	Yes	
Stafford	35	0.173	0.064	115	125	135	89	97	105			Yes	
Stamford	30	0.249	0.069	110	120	130	85	93	101			Yes	
Sterling	35	0.170	0.061	125	135	145	97	105	112		Type A	Yes	
Stonington	30	0.159	0.058	125	140	150	97	108	116	Type B	Type A	Yes	
Stratford	30	0.201	0.064	115	125	135	89	97	105		Type B	Yes	
Suffield	35	0.176	0.065	110	120	130	85	93	101			Yes	
Thomaston	35	0.186	0.064	110	120	130	85	93	101			Yes	
Thompson	40	0.172	0.063	120	130	140	93	101	108			Yes	
Tolland	35	0.175	0.064	115	125	135	89	97	105			Yes	
Torrington	40	0.182	0.065	110	120	125	85	93	97			Yes	
Trumbull	30	0.207	0.065	115	125	135	89	97	105			Yes	
Union	40	0.172	0.064	115	125	135	89	97	105			Yes	
Vernon	30	0.177	0.064	115	125	135	89	97	105			Yes	
Voluntown	30	0.168	0.060	125	135	145	97	105	112		Type A	Yes	
Wallingford	30	0.183	0.063	115	125	135	89	97	105			Yes	
Warren	40	0.186	0.065	105	115	125	81	89	97				
Washington	35	0.192	0.065	105	120	125	81	93	97			Yes	
Waterbury	35	0.189	0.064	110	125	130	85	97	101			Yes	
Waterford	30	0.161	0.058	125	135	145	97	105	112	Type B	Type A	Yes	
Watertown	35	0.189	0.064	110	120	130	85	93	101			Yes	
Westbrook	30	0.167	0.059	120	135	145	93	105	112	Type B	Type A	Yes	
West Hartford	30	0.181	0.064	115	125	135	89	97	105			Yes	
West Haven	30	0.188	0.062	115	125	135	89	97	105		Type B	Yes	
Weston	30	0.224	0.067	110	120	130	85	93	101			Yes	
Westport	30	0.226	0.067	110	120	130	85	93	101		Type B	Yes	
Wethersfield	30	0.181	0.064	115	125	135	89	97	105			Yes	
Willington	35	0.174	0.063	115	125	135	89	97	105			Yes	
Wilton	30	0.231	0.068	110	120	130	85	93	101			Yes	
Winchester	40	0.177	0.065	105	120	125	81	93	97			Yes	
Windham	30	0.173	0.062	120	130	140	93	101	108			Yes	
Windsor	35	0.179	0.064	115	125	135	89	97	105			Yes	
Windsor Locks	35	0.177	0.064	110	125	130	85	97	101			Yes	
Wolcott	35	0.187	0.064	110	125	130	85	97	101			Yes	
Woodbridge	30	0.191	0.063	115	125	135	89	97	105			Yes	
Woodbury	35	0.194	0.065	110	120	130	85	93	101			Yes	
Woodstock	40	0.172	0.063	120	130	140	93	101	108			Yes	

MecaWind v2362

Software Developer: Meca Enterprises Inc., www.meca.biz, Copyright © 2020

Calculations Prepared by:
Client: On Air Engineering
Date: Jan 07, 2021
Designer: WJZ
Description:
Wethersfield, CT

Calculations Prepared For:
Project #: N-522

File Location : U:\Bill\N-522 Putnam Park, Wethersfield, CT\N-522 Revised.wnd

Basic Wind Parameters

Wind Load Standard	= ASCE 7-16	Exposure Category	= C
Wind Design Speed	= 125.0 mph	Risk Category	= II
Structure Type	= Other	Other Structure Type	= Solid Sign

General Wind Settings

Incl_LF	= ASCE 7-16 Wind Parameters	=
Incl_LF	= Include ASD Load Factor of 0.6 in Pressures	= False
DynType	= Dynamic Type of Structure	= Rigid
NF	= Natural Frequency of Structure (Mode 1)	= 1.000 Hz
Zg	= Altitude (Ground Elevation) above Sea Level	= 20.000 ft
Bdist	= Base Elevation of Structure	= 91.167 ft
GenElev	= Specify the Elevations For Wind Pressures	= Mean Roof Ht
Reacs	= Show the Base Reactions in the output	= False
MWFRSType	= MWFRS Method Selected	= Ch 27 Pt 1

Topographic Factor per Fig 26.8-1

Topo	= Topographic Feature	= None
Kzt	= Topographic Factor	= 1.000

Solid Sign Inputs

: Solid Sign	=	h : Height to Top of Sign	= 19.167 ft
B : Horizontal Width of Sign=	1.000 ft	Lr : Dimension of return corner=	0.600 ft
s : Vertical Height of Sign =	6.000 ft	e : Solidity Ratio	= 1.000
Att: Attached to Wall	= False		

Exposure Constants per Table 26.11-1:

Alpha: Table 26.11-1 Const	= 9.500	Zg: Table 26.11-1 Const	= 900.000 ft
At: Table 26.11-1 Const	= 0.105	Bt: Table 26.11-1 Const	= 1.000
Am: Table 26.11-1 Const	= 0.154	Bm: Table 26.11-1 Const	= 0.650
C: Table 26.11-1 Const	= 0.200	Eps: Table 26.11-1 Const	= 0.200

Gust Factor Calculation:

Gust Factor Category I Rigid Structures - Simplified Method		
G1	= For Rigid Structures (Nat. Freq.>1 Hz) use 0.85	= 0.85
Gust Factor Category II Rigid Structures - Complete Analysis		
Zm	= 0.6 * Ht	= 15.000 ft
Izm	= $C_c * (33 / Z_m)^{0.167}$	= 0.228
Lzm	= $L * (Z_m / 33)^{\text{Epsilon}}$	= 427.057
Q	= $(1 / (1 + 0.63 * ((B + Ht) / Lzm)^{0.63}))^{0.5}$	= 0.957
G2	= $0.925 * ((1 + 1.7 * lzm * 3.4 * Q) / (1 + 1.7 * 3.4 * lzm))$	= 0.902
Gust Factor Used in Analysis		
G	= Lessor Of G1 Or G2	= 0.850

Main Wind Force Resisting System (MWFRS) Calculations for Solid Sign per Ch 29:

LF	= Load Factor based upon STRENGTH Design	= 1.00
hs	= Overall height of structure	= 19.167 ft
h	= Mean Roof Height above grade	= 110.334 ft
Kh	= 15 ft [4.572 m] < Z < Zg --> $(2.01 * (Z/zg)^{(2/Alpha)})$ {Table 26.10-1}	= 1.292
Kzt	= Topographic Factor is 1 since no Topographic feature specified	= 1.000
Kd	= Wind Directionality Factor per Table 26.6-1	= 0.85
qh	= $(0.00256 * Kh * Kzt * Kd * Ke * V^2) * LF$	= 43.90 psf

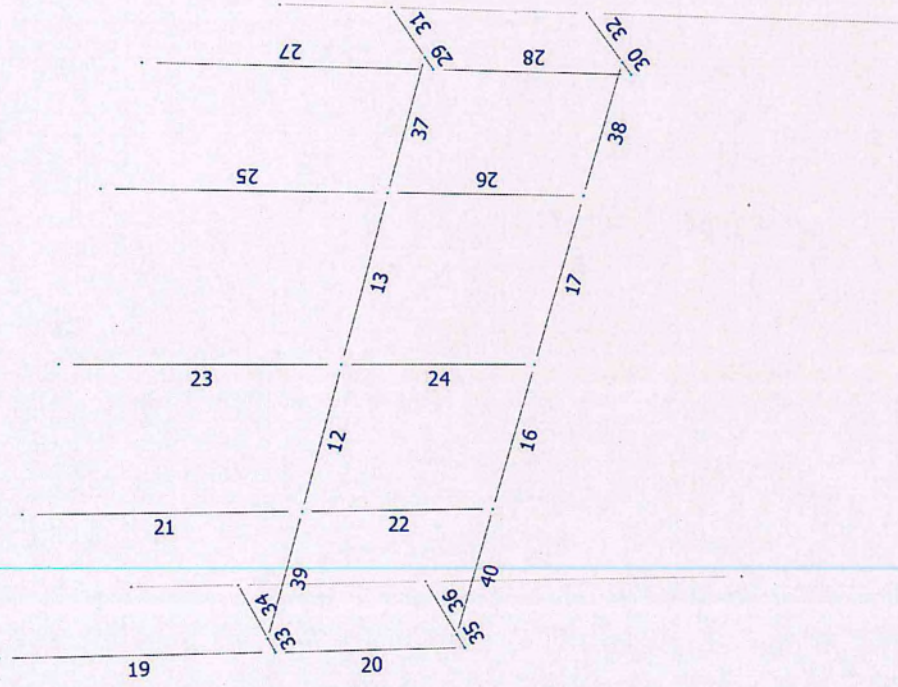
MWFRS Pressures on Solid Sign per Fig 29.3-1:

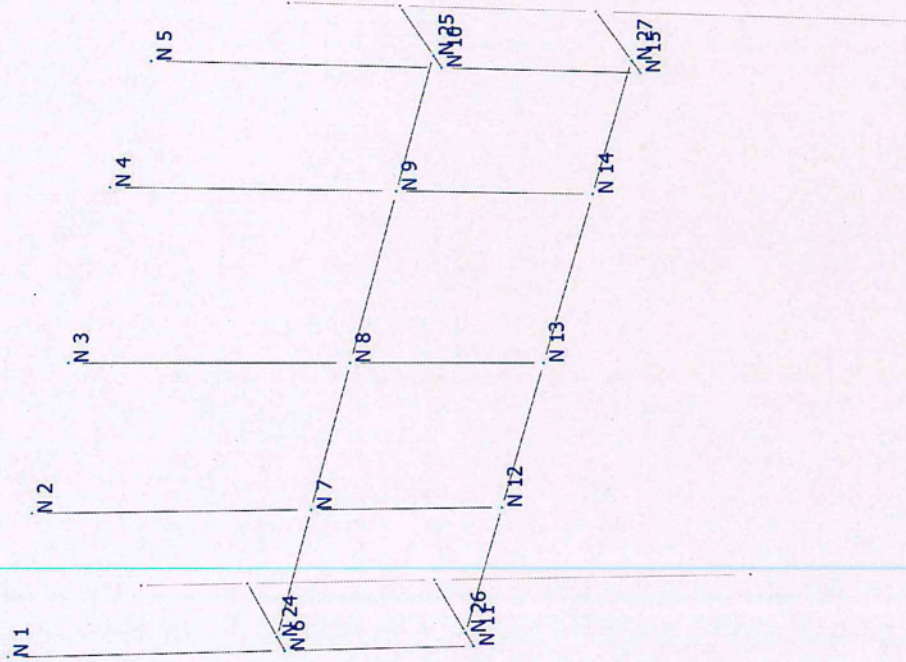
R	= Reduction factor to account for openings: $(1 - (1 - e)^{1.5})$	= 1.000
Rc	= Reduction factor for Case C not applicable since s/h <= 0.8	= 1.000
As	= Gross Area of Sign: B * s	= 6.00 sq ft
B/s	= Aspect Ratio: B / s	= 0.167
s/h	= Clearance Ratio: s / h	= 0.313
Cf	= Net Force Coefficient for Case A and B per Fig 29.3-1	= 1.860

Case A: Resultant force acts normal to face through geometric center
F = Design Wind force: $q_h * G * C_f * A_s * R$ = 416 lb

Case B: Resultant force acts normal to face at a distance from the geometric center toward the windward edge equal to 0.2 times the average width
Dx = Force Offset from Center toward windward edge: $0.2 * B$ = 0.200 ft
F = Design Wind force: $q_h * G * C_f * A_s * R$ = 416 lb

Case C: Since $B/s < 2$ then Case C need not be considered







Units system: English

Geometry data

GLOSSARY

Cb22, Cb33	: Moment gradient coefficients
Cm22, Cm33	: Coefficients applied to bending term in interaction formula
d0	: Tapered member section depth at J end of member
DJX	: Rigid end offset distance measured from J node in axis X
DJY	: Rigid end offset distance measured from J node in axis Y
DJZ	: Rigid end offset distance measured from J node in axis Z
DKX	: Rigid end offset distance measured from K node in axis X
DKY	: Rigid end offset distance measured from K node in axis Y
DKZ	: Rigid end offset distance measured from K node in axis Z
dL	: Tapered member section depth at K end of member
Ig factor	: Inertia reduction factor (Effective Inertia/Gross Inertia) for reinforced concrete members
K22	: Effective length factor about axis 2
K33	: Effective length factor about axis 3
L22	: Member length for calculation of axial capacity
L33	: Member length for calculation of axial capacity
LB pos	: Lateral unbraced length of the compression flange in the positive side of local axis 2
LB neg	: Lateral unbraced length of the compression flange in the negative side of local axis 2
RX	: Rotation about X
RY	: Rotation about Y
RZ	: Rotation about Z
TO	: 1 = Tension only member 0 = Normal member
TX	: Translation in X
TY	: Translation in Y
TZ	: Translation in Z

Nodes

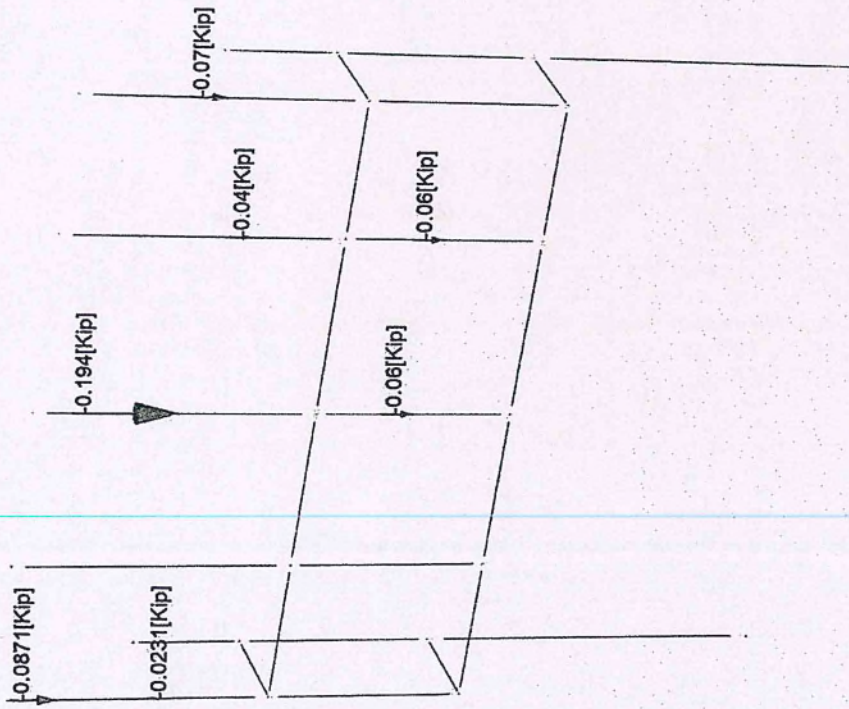
Node	X [ft]	Y [ft]	Z [ft]	Rigid Floor
1	0.00	18.75	2.50	0
2	3.3333	18.75	2.00	0
3	7.0833	18.75	2.00	0
4	11.3333	18.75	2.00	0
5	14.5833	18.75	2.50	0
6	0.00	12.4167	2.50	0
7	3.3333	12.4167	2.00	0
8	7.0833	12.4167	2.00	0
9	11.3333	12.4167	2.00	0
10	14.5833	12.4167	2.50	0
11	0.00	7.9167	2.50	0
12	3.3333	7.9167	2.00	0
13	7.0833	7.9167	2.00	0
14	11.3333	7.9167	2.00	0
15	14.5833	7.9167	2.50	0
24	0.00	12.4167	2.00	0
25	14.5833	12.4167	2.00	0
26	0.00	7.9167	2.00	0
27	14.5833	7.9167	2.00	0

Members

Member	NJ	NK	Description	Section	Material	d0 [in]	dL [in]	Ig factor
12	7	8		PIPE 3x0.216	A53 GrB	0.00	0.00	0.00
13	8	9		PIPE 3x0.216	A53 GrB	0.00	0.00	0.00
16	12	13		PIPE 2x0.154	A53 GrB	0.00	0.00	0.00
17	13	14		PIPE 2x0.154	A53 GrB	0.00	0.00	0.00
19	1	6		PIPE 2x0.154	A53 GrB	0.00	0.00	0.00
20	6	11		PIPE 2x0.154	A53 GrB	0.00	0.00	0.00
21	2	7		PIPE 2x0.154	A53 GrB	0.00	0.00	0.00
22	7	12		PIPE 2x0.154	A53 GrB	0.00	0.00	0.00
23	3	8		PIPE 3x0.216	A53 GrB	0.00	0.00	0.00
24	8	13		PIPE 3x0.216	A53 GrB	0.00	0.00	0.00
25	4	9		PIPE 2x0.154	A53 GrB	0.00	0.00	0.00
26	9	14		PIPE 2x0.154	A53 GrB	0.00	0.00	0.00
27	5	10		PIPE 2x0.154	A53 GrB	0.00	0.00	0.00
28	10	15		PIPE 2x0.154	A53 GrB	0.00	0.00	0.00
29	10	25		PIPE 2x0.218XS	A53 GrB	0.00	0.00	0.00
30	15	27		PIPE 2x0.154	A53 GrB	0.00	0.00	0.00
31	22	25		PIPE 2x0.218XS	A53 GrB	0.00	0.00	0.00
32	21	27		PIPE 2x0.154	A53 GrB	0.00	0.00	0.00
33	6	24		PIPE 2x0.218XS	A53 GrB	0.00	0.00	0.00
34	18	24		PIPE 2x0.218XS	A53 GrB	0.00	0.00	0.00
35	11	26		PIPE 2x0.154	A53 GrB	0.00	0.00	0.00
36	17	26		PIPE 2x0.154	A53 GrB	0.00	0.00	0.00
37	25	9		PIPE 3x0.216	A53 GrB	0.00	0.00	0.00
38	27	14		PIPE 2x0.154	A53 GrB	0.00	0.00	0.00
39	24	7		PIPE 3x0.216	A53 GrB	0.00	0.00	0.00
40	26	12		PIPE 2x0.154	A53 GrB	0.00	0.00	0.00

Loads

- Bending moments
- Concentrated user loads - Members





Bentley Microsoft

Current Date: 12/22/2020 3:25 PM

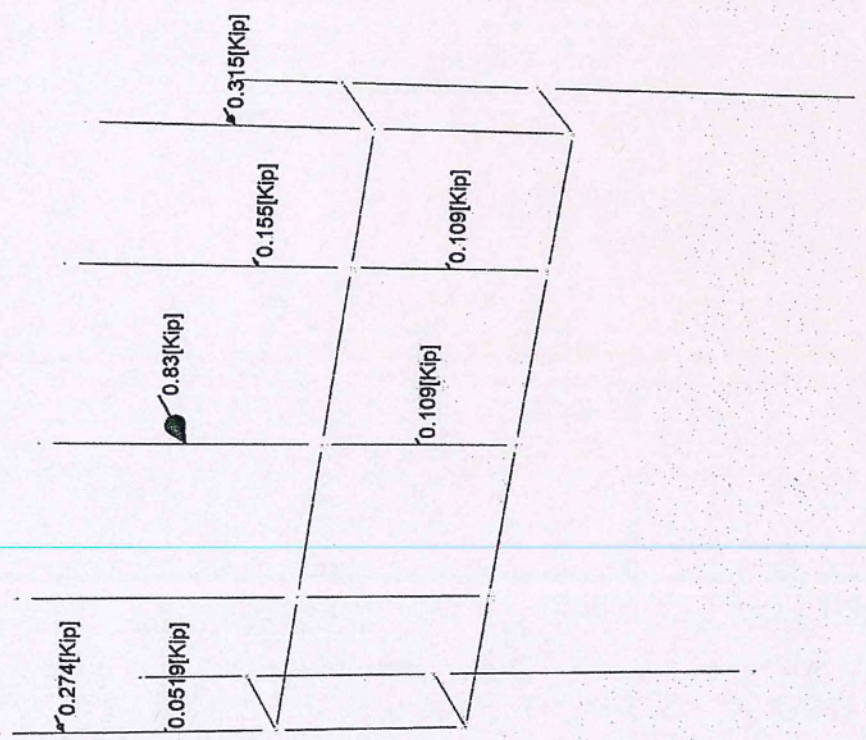
Units system: English

File name: F:\BIMN-522\N-522 Alpha (+Z).rvt

Load condition: W=Wind Load

Loads

- Distributed user loads - Members
- Concentrated user loads - Members

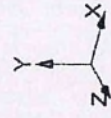
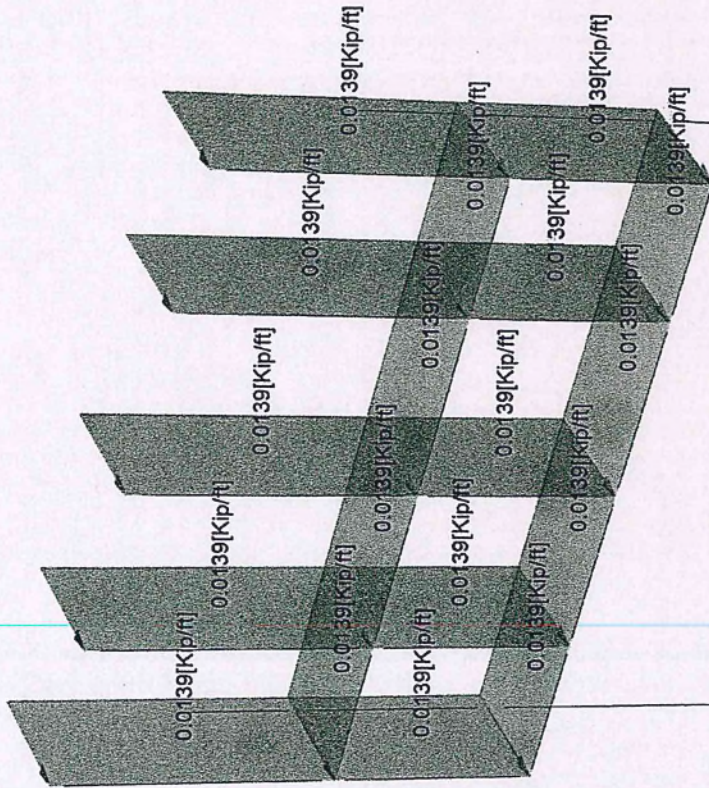




Current Date: 4/11/2019 2:10 PM
Units system: English
File name: U:\BIMN-522 Putnam Park, Wethersfield, CT\LRFD\N-522 Alpha (+Z).etzi
Load condition: W-Wind Load

Loads

■ Distributed user loads - Members





Units system: English

Steel Code Check

Report: Summary - Group by member

Load conditions to be included in design :

D1=1.4DL
D2=1.2DL+0.5W
D3=1.2DL+W
D4=0.9DL+W

Description	Section	Member	Ctrl Eq.	Ratio	Status	Reference
	<i>PIPE 2x0.154</i>	16	D3 at 0.00%	0.28	OK	Eq. H1-1b
		17	D3 at 100.00%	0.31	OK	Eq. H1-1b
		19	D3 at 100.00%	0.95	OK	Eq. H1-1b
		20	D3 at 0.00%	0.75	OK	Eq. H1-1b
		21	D3 at 100.00%	0.15	OK	Eq. H1-1b
		22	D3 at 0.00%	0.40	OK	Eq. H1-1b
		25	D3 at 100.00%	0.33	OK	Eq. H1-1b
		26	D3 at 0.00%	0.48	OK	Eq. H1-1b
		27	D3 at 100.00%	0.68	OK	Eq. H1-1b
		28	D3 at 0.00%	0.66	OK	Eq. H1-1b
		30	D3 at 0.00%	0.40	OK	Eq. H1-1b
		32	D3 at 0.00%	0.37	OK	Eq. H1-1b
		35	D3 at 0.00%	0.46	OK	Eq. H1-1b
		36	D3 at 0.00%	0.45	OK	Eq. H1-1b
		38	D3 at 0.00%	0.27	OK	Eq. H1-1b
		40	D3 at 0.00%	0.26	OK	Eq. H1-1b
	<i>PIPE 2x0.218XS</i>	29	D4 at 0.00%	0.15	OK	Eq. H1-1b
		31	D4 at 100.00%	0.85	OK	Eq. H1-1b
		33	D4 at 0.00%	0.28	OK	Eq. H1-1b
		34	D4 at 100.00%	0.91	OK	Eq. H1-1b
	<i>PIPE 3x0.216</i>	12	D3 at 100.00%	0.87	OK	Eq. H1-1b
		13	D3 at 0.00%	0.86	OK	Eq. H1-1b
		23	D3 at 100.00%	0.50	OK	Eq. H1-1b
		24	D3 at 0.00%	0.26	OK	Eq. H1-1b
		37	D3 at 100.00%	0.44	OK	Eq. H1-1b
		39	D3 at 100.00%	0.39	OK	Eq. H1-1b



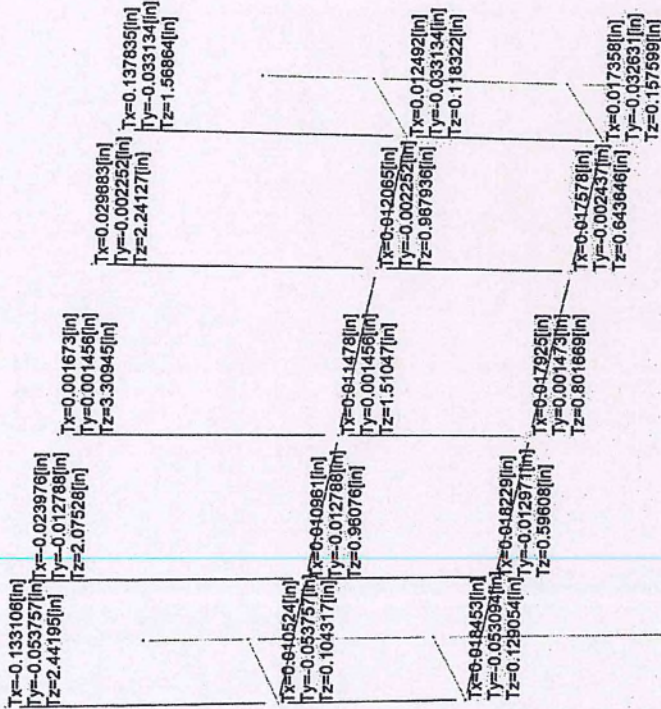
Bentley Microsoft

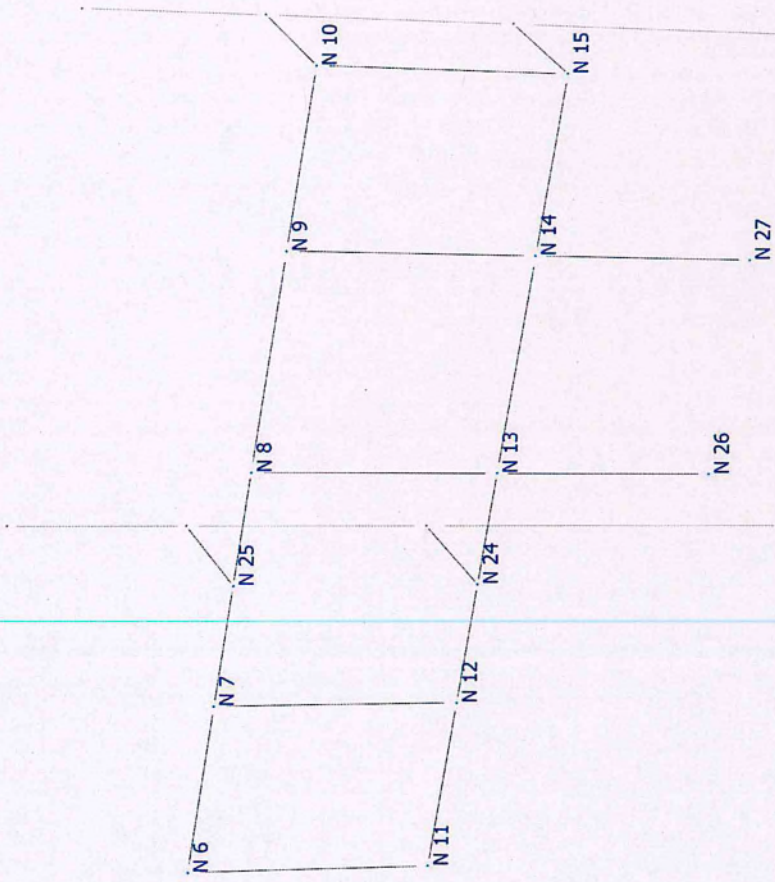
Current Date: 12/22/2020 3:31 PM

Units system: English

File name: F:\B\IN-522\N-522 Alpha (+Z).reix

Load condition: W=Wind Load





Geometry data

GLOSSARY

Cb22, Cb33	: Moment gradient coefficients
Cm22, Cm33	: Coefficients applied to bending term in interaction formula
d0	: Tapered member section depth at J end of member
DJX	: Rigid end offset distance measured from J node in axis X
DJY	: Rigid end offset distance measured from J node in axis Y
DJZ	: Rigid end offset distance measured from J node in axis Z
DKX	: Rigid end offset distance measured from K node in axis X
DKY	: Rigid end offset distance measured from K node in axis Y
DKZ	: Rigid end offset distance measured from K node in axis Z
dL	: Tapered member section depth at K end of member
Ig factor	: Inertia reduction factor (Effective Inertia/Gross Inertia) for reinforced concrete members
K22	: Effective length factor about axis 2
K33	: Effective length factor about axis 3
L22	: Member length for calculation of axial capacity
L33	: Member length for calculation of axial capacity
LB pos	: Lateral unbraced length of the compression flange in the positive side of local axis 2
LB neg	: Lateral unbraced length of the compression flange in the negative side of local axis 2
RX	: Rotation about X
RY	: Rotation about Y
RZ	: Rotation about Z
TO	: 1 = Tension only member 0 = Normal member
TX	: Translation in X
TY	: Translation in Y
TZ	: Translation in Z

Nodes

Node	X [ft]	Y [ft]	Z [ft]	Rigid Floor
6	0.00	11.6667	2.50	0
7	3.1667	11.6667	2.50	0
8	7.50	11.6667	2.50	0
9	11.50	11.6667	2.50	0
10	14.75	11.6667	2.50	0
11	0.00	7.1667	2.50	0
12	3.1667	7.1667	2.50	0
13	7.50	7.1667	2.50	0
14	11.50	7.1667	2.50	0
15	14.75	7.1667	2.50	0
24	5.4167	7.1667	2.50	0
25	5.4167	11.6667	2.50	0
26	7.50	3.1667	2.50	0
27	11.50	3.1667	2.50	0

Members

Member	NJ	NK	Description	Section	Material	d0 [in]	dL [in]	Ig factor
11	6	7		PIPE 2x0.154	A53 GrB	0.00	0.00	0.00
13	8	9		PIPE 2x0.154	A53 GrB	0.00	0.00	0.00
14	9	10		PIPE 2x0.154	A53 GrB	0.00	0.00	0.00
15	11	12		PIPE 2-1_2x0.203	A53 GrB	0.00	0.00	0.00
17	13	14		PIPE 2-1_2x0.203	A53 GrB	0.00	0.00	0.00
18	14	15		PIPE 2-1_2x0.203	A53 GrB	0.00	0.00	0.00
20	6	11		PIPE 2x0.154	A53 GrB	0.00	0.00	0.00
22	7	12		PIPE 2x0.154	A53 GrB	0.00	0.00	0.00
24	8	13		PIPE 2x0.154	A53 GrB	0.00	0.00	0.00
26	9	14		PIPE 2x0.154	A53 GrB	0.00	0.00	0.00
28	10	15		PIPE 2x0.154	A53 GrB	0.00	0.00	0.00
29	8	25		PIPE 2x0.154	A53 GrB	0.00	0.00	0.00
30	13	24		PIPE 2-1_2x0.203	A53 GrB	0.00	0.00	0.00
31	7	25		PIPE 2x0.154	A53 GrB	0.00	0.00	0.00
32	12	24		PIPE 2-1_2x0.203	A53 GrB	0.00	0.00	0.00
33	18	25		PIPE 2x0.154	A53 GrB	0.00	0.00	0.00
34	17	24		PIPE 2x0.154	A53 GrB	0.00	0.00	0.00
35	10	22		PIPE 2x0.154	A53 GrB	0.00	0.00	0.00
36	15	21		PIPE 2x0.154	A53 GrB	0.00	0.00	0.00
37	13	26		PIPE 2x0.154	A53 GrB	0.00	0.00	0.00
38	14	27		PIPE 2x0.154	A53 GrB	0.00	0.00	0.00



Bentley Microsoft

Current Date: 12/22/2020 3:33 PM

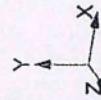
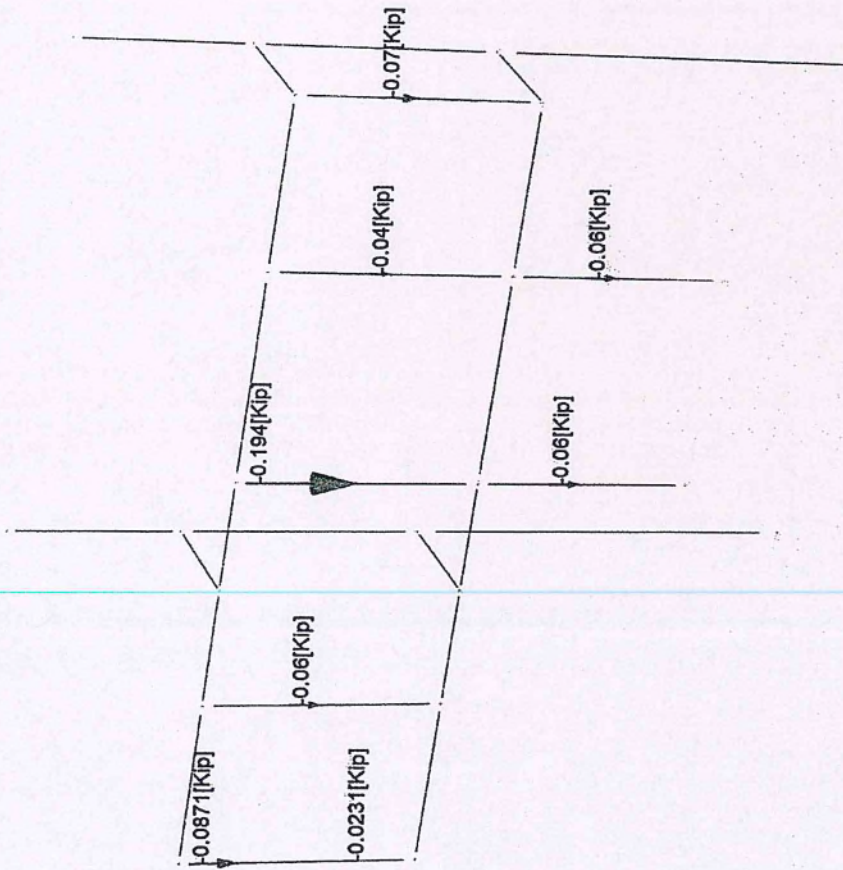
Units system: English



File name: F:\BILFIN-522IN-522 Beta (-Z).rvt

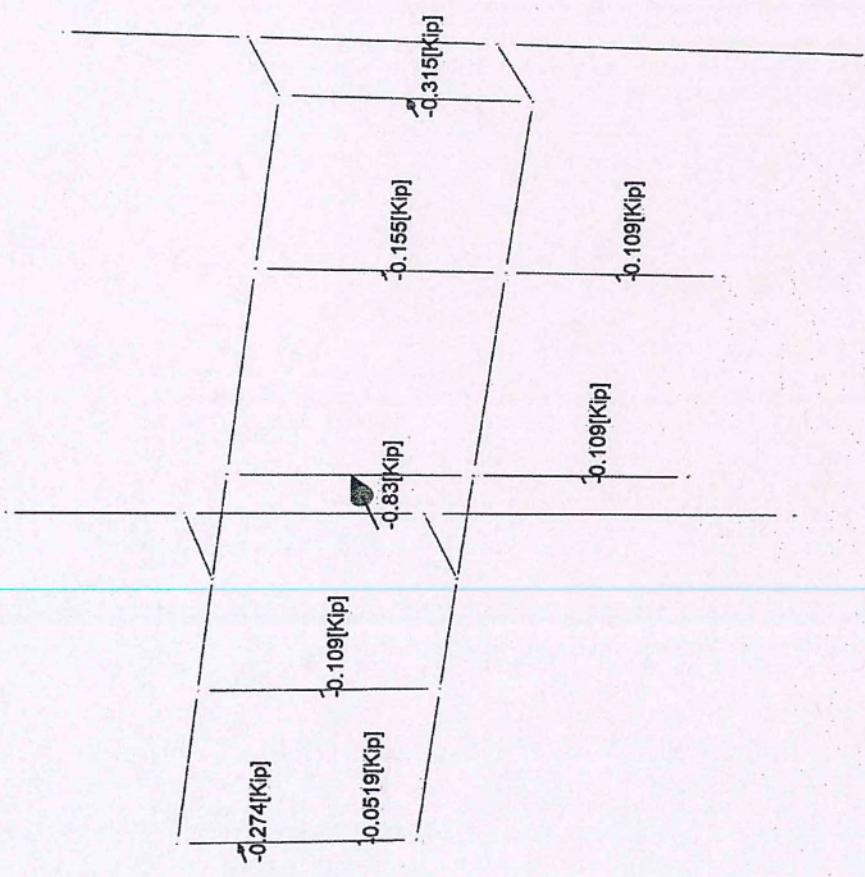
Load condition: DL=Dead Load

Loads

- Bending moments
- Concentrated user loads - Members



Loads
 Distributed user loads - Members
 Concentrated user loads - Members





Units system: English

Steel Code Check

Report: Summary - Group by member

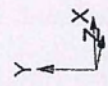
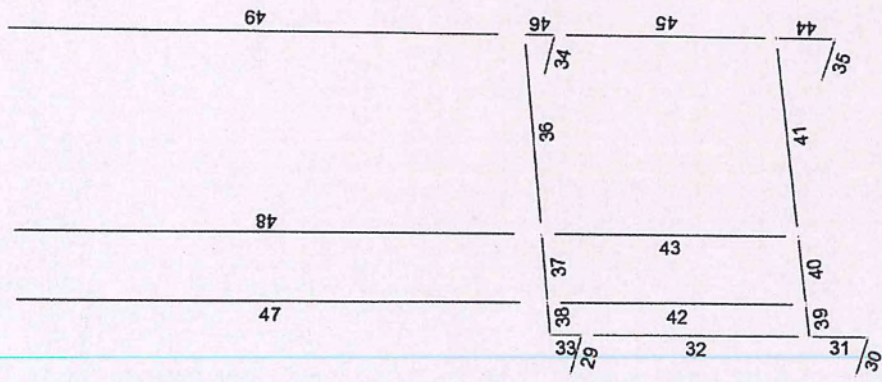
Load conditions to be included in design :

D1=1.4DL
D2=1.2DL+0.5W
D3=1.2DL+W
D4=0.9DL+W

Description	Section	Member	Ctrl Eq.	Ratio	Status	Reference
	<i>PIPE 2-1_2x0.203</i>	15	D3 at 100.00%	0.25	OK	Eq. H1-1b
		17	D3 at 100.00%	0.22	OK	Eq. H1-1b
		18	D3 at 0.00%	0.22	OK	Eq. H1-1b
		30	D3 at 100.00%	0.68	OK	Eq. H1-1b
		32	D3 at 100.00%	0.69	OK	Eq. H1-1b
	<i>PIPE 2x0.154</i>	11	D3 at 100.00%	0.38	OK	Eq. H1-1b
		13	D3 at 100.00%	0.19	OK	Eq. H1-1b
		14	D3 at 0.00%	0.15	OK	Eq. H1-1b
		20	D3 at 100.00%	0.21	OK	Eq. H1-1b
		22	D1 at 100.00%	0.19	OK	Eq. H1-1b
		24	D3 at 100.00%	0.44	OK	Eq. H1-1b
		26	D3 at 100.00%	0.13	OK	Eq. H1-1b
		28	D3 at 100.00%	0.21	OK	Eq. H1-1b
		29	D4 at 100.00%	0.60	OK	Eq. H1-1b
		31	D4 at 100.00%	0.60	OK	Eq. H1-1b
		33	D1 at 0.00%	0.37	OK	Eq. H1-1b
		34	D3 at 0.00%	0.70	OK	Eq. H1-1b
		35	D4 at 0.00%	0.12	OK	Eq. H1-1b
		36	D3 at 100.00%	0.27	OK	Eq. H1-1b
		37	D3 at 0.00%	0.18	OK	Eq. H1-1b
		38	D3 at 0.00%	0.18	OK	Eq. H1-1b



Current Date: 4/11/2019 2:56 PM
Units system: English
File name: U:\BWINN-522 Putnam Park, Wethersfield, CT\LRFDIN-522 Gamma (+Z).etx
Load condition: W=Wind Load



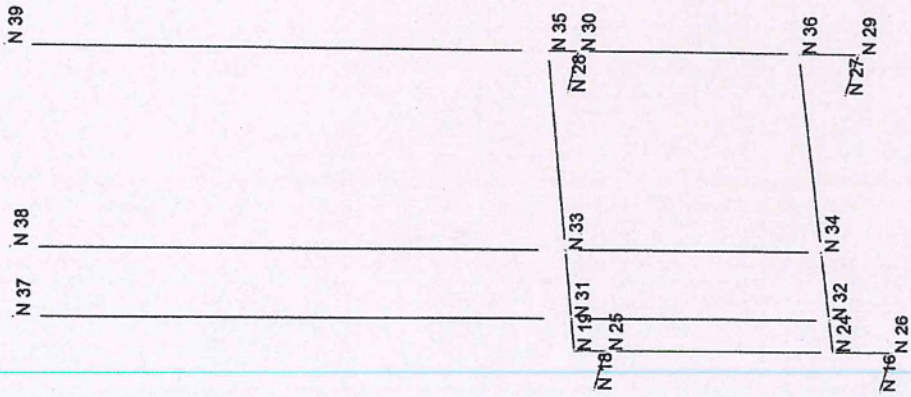


Current Date: 4/11/2019 2:57 PM

Units system: English

File name: U:\BINN-522 Putnam Park, Wethersfield, CT\LRFDIN-522 Gamma (+Z).etzi

Load condition: W=Wind Load



Geometry data

GLOSSARY

Cb22, Cb33	: Moment gradient coefficients
Cm22, Cm33	: Coefficients applied to bending term in interaction formula
d0	: Tapered member section depth at J end of member
DJX	: Rigid end offset distance measured from J node in axis X
DJY	: Rigid end offset distance measured from J node in axis Y
DJZ	: Rigid end offset distance measured from J node in axis Z
DKX	: Rigid end offset distance measured from K node in axis X
DKY	: Rigid end offset distance measured from K node in axis Y
DKZ	: Rigid end offset distance measured from K node in axis Z
dL	: Tapered member section depth at K end of member
Ig factor	: Inertia reduction factor (Effective Inertia/Gross Inertia) for reinforced concrete members
K22	: Effective length factor about axis 2
K33	: Effective length factor about axis 3
L22	: Member length for calculation of axial capacity
L33	: Member length for calculation of axial capacity
LB pos	: Lateral unbraced length of the compression flange in the positive side of local axis 2
LB neg	: Lateral unbraced length of the compression flange in the negative side of local axis 2
RX	: Rotation about X
RY	: Rotation about Y
RZ	: Rotation about Z
TO	: 1 = Tension only member 0 = Normal member
TX	: Translation in X
TY	: Translation in Y
TZ	: Translation in Z

Nodes

Node	X [ft]	Y [ft]	Z [ft]	Rigid Floor
16	0.00	0.00	0.00	0
18	0.00	3.9167	0.00	0
19	0.00	4.3333	1.00	0
24	0.00	0.8333	1.00	0
25	0.00	3.9167	1.00	0
26	0.00	0.00	1.00	0
27	4.8333	0.00	0.00	0
28	4.8333	3.9167	0.00	0
29	4.8333	0.00	1.00	0
30	4.8333	3.9167	1.00	0
31	0.50	4.3333	1.00	0
32	0.50	0.8333	1.00	0
33	1.5833	4.3333	1.00	0
34	1.5833	0.8333	1.00	0
35	4.8333	4.3333	1.00	0
36	4.8333	0.8333	1.00	0
37	0.50	11.75	1.00	0
38	1.5833	11.75	1.00	0
39	4.8333	11.75	1.00	0

Restraints

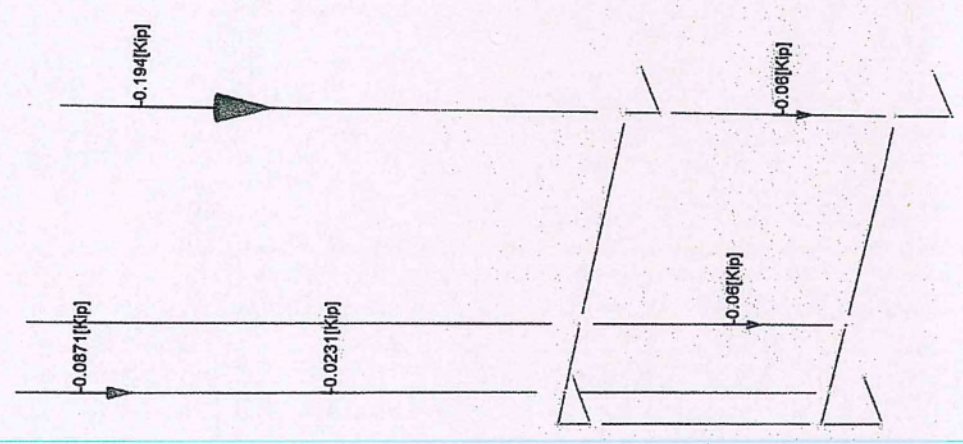
Node	TX	TY	TZ	RX	RY	RZ
16	1	1	1	0	0	0
18	1	1	1	0	0	0
27	1	1	1	0	0	0
28	1	1	1	0	0	0

Members

Member	NJ	NK	Description	Section	Material	d0 [in]	dL [in]	Ig factor
29	18	25		PIPE 2x0.154	A53 GrB	0.00	0.00	0.00
30	16	26		PIPE 2x0.154	A53 GrB	0.00	0.00	0.00
31	24	26		PIPE 2x0.154	A53 GrB	0.00	0.00	0.00
32	24	25		PIPE 2x0.154	A53 GrB	0.00	0.00	0.00
33	19	25		PIPE 2x0.154	A53 GrB	0.00	0.00	0.00
34	28	30		PIPE 2x0.154	A53 GrB	0.00	0.00	0.00
35	27	29		PIPE 2x0.154	A53 GrB	0.00	0.00	0.00
36	33	35		PIPE 2x0.154	A53 GrB	0.00	0.00	0.00
37	31	33		PIPE 2x0.154	A53 GrB	0.00	0.00	0.00
38	19	31		PIPE 2x0.154	A53 GrB	0.00	0.00	0.00
39	24	32		PIPE 2x0.154	A53 GrB	0.00	0.00	0.00
40	32	34		PIPE 2x0.154	A53 GrB	0.00	0.00	0.00
41	34	36		PIPE 2x0.154	A53 GrB	0.00	0.00	0.00
42	31	32		PIPE 2-1_2x0.203	A53 GrB	0.00	0.00	0.00
43	33	34		PIPE 2x0.154	A53 GrB	0.00	0.00	0.00
44	29	36		PIPE 3x0.216	A53 GrB	0.00	0.00	0.00
45	30	36		PIPE 3x0.216	A53 GrB	0.00	0.00	0.00
46	30	35		PIPE 3x0.216	A53 GrB	0.00	0.00	0.00
47	31	37		PIPE 2-1_2x0.203	A53 GrB	0.00	0.00	0.00
48	33	38		PIPE 2x0.154	A53 GrB	0.00	0.00	0.00
49	35	39		PIPE 3x0.216	A53 GrB	0.00	0.00	0.00

Loads

- Bending moments
- Concentrated user loads - Members





Bentley Microsoft

Current Date: 12/22/2020 3:44 PM

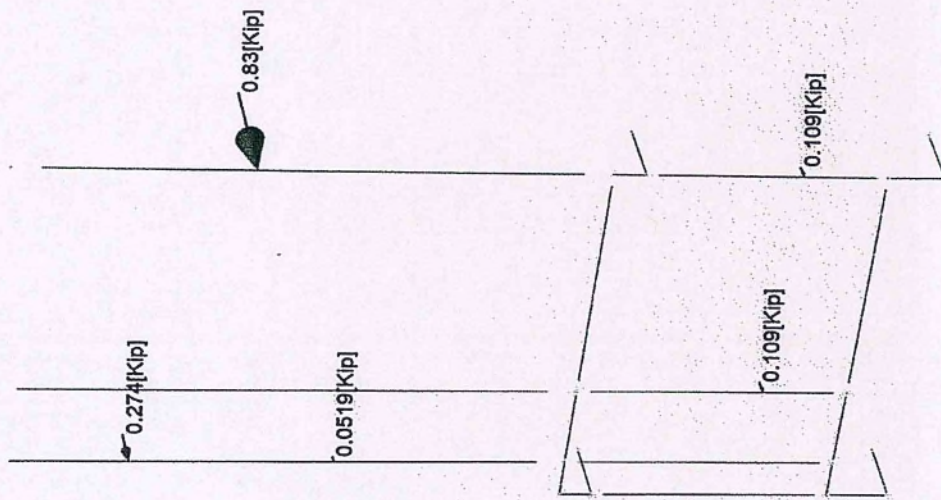
Units system: English

File name: F:\BIMN-522N-522 Gamma (+Z).rvt

Load condition: W=Wind Load

Loads

- ▬ Distributed user loads - Members
- ▬ Concentrated user loads - Members

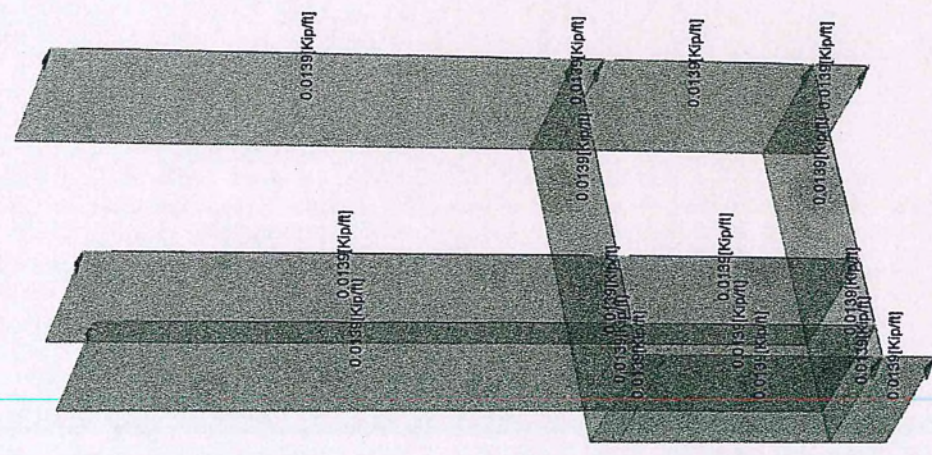


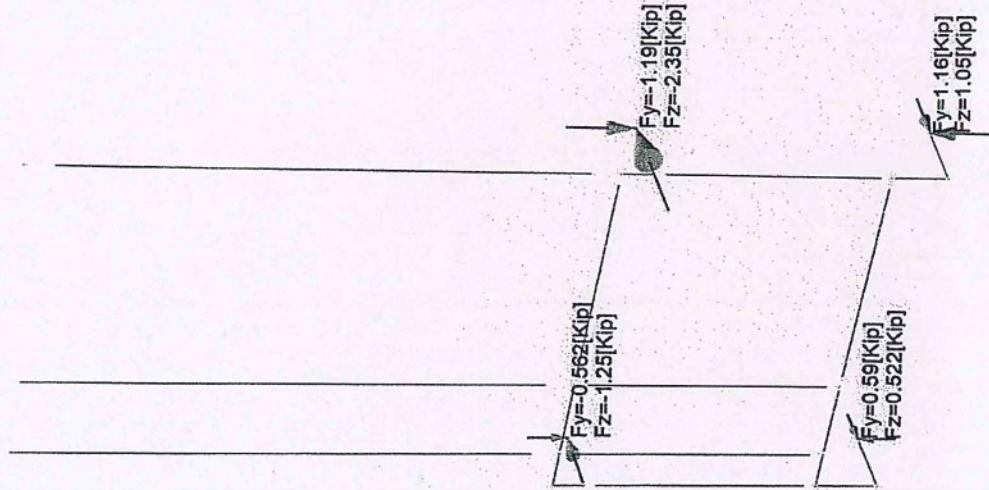


Current Date: 4/11/2019 3:00 PM
 Inits system: English
 File name: U:\BIMN-522 Putnam Park, Wethersfield, CT\LRFDIN-522 Gamma (+Z).etx
 Load condition: W-Wind Load

Loads

■ Distributed user loads - Members







Current Date: 12/22/2020 3:47 PM
 Units system: English
 File name: F:\Bilin\N-522\N-522 Gamma (+Z).retx

Steel Code Check

Report: Summary - Group by member

Load conditions to be included in design :

- D1=1.4DL
- D2=1.2DL+0.5W
- D3=1.2DL+W
- D4=0.9DL+W

Description	Section	Member	Ctrl Eq.	Ratio	Status	Reference
	<i>PIPE 2-1_2x0.203</i>	42	D3 at 0.00%	0.49	OK	Eq. H1-1b
		47	D3 at 0.00%	0.58	OK	Eq. H1-1b
	<i>PIPE 2x0.154</i>	29	D4 at 100.00%	0.34	OK	Eq. H1-1b
		30	D3 at 100.00%	0.38	OK	Eq. H1-1b
		31	D3 at 100.00%	0.36	OK	Eq. H1-1b
		32	D3 at 100.00%	0.32	OK	Eq. H1-1b
		33	D4 at 100.00%	0.47	OK	Eq. H1-1b
		34	D4 at 100.00%	0.68	OK	Eq. H1-1b
		35	D3 at 100.00%	0.78	OK	Eq. H1-1b
		36	D4 at 0.00%	0.15	OK	Eq. H1-1b
		37	D3 at 100.00%	0.18	OK	Eq. H1-1b
		38	D4 at 0.00%	0.20	OK	Eq. H3-1
		39	D3 at 100.00%	0.12	OK	Eq. H1-1b
		40	D3 at 0.00%	0.04	OK	Eq. H3-1
		41	D1 at 100.00%	0.03	OK	Eq. H1-1b
		43	D3 at 0.00%	0.31	OK	Eq. H1-1b
		48	D3 at 0.00%	0.21	OK	Eq. H1-1b
			<i>PIPE 3x0.216</i>	44	D3 at 0.00%	0.25
45	D3 at 0.00%			0.63	OK	Eq. H1-1b
46	D3 at 0.00%			0.79	OK	Eq. H1-1b
49	D3 at 0.00%			0.71	OK	Eq. H1-1b



Bentley Microsoft

Current Date: 12/22/2020 3:49 PM

Units system: English

File name: F:\BIMN-522\N-522 Gamma (+Z).re1x

Load condition: DL=Dead Load

$T_x=0.013422[m]$
 $T_y=-0.012795[m]$
 $T_z=0.016449[m]$

$T_x=0.002501[m]$
 $T_y=-0.009664[m]$
 $T_z=0.021513[m]$

$T_x=0.094388[m]$
 $T_y=-0.011471[m]$
 $T_z=0.002432[m]$

$T_x=0.001334[m]$
 $T_y=-0.009455[m]$
 $T_z=0.001164[m]$

$T_x=-0.001498[m]$
 $T_y=-0.011432[m]$
 $T_z=-2.877E-05[m]$

$T_x=-0.00017[m]$
 $T_y=-0.009333[m]$
 $T_z=-4.084E-05[m]$



ATTACHMENT 5



Connecticut R

286002

GREAT MEADOW RD

100

286003

285001

GREAT MEADOW RD

GREAT MEADOW RD

STATE HWY 3 SB
STATE HWY 3 NB

STATE HWY 3 SB
STATE HWY 3 NB

Location:	100 GREAT MEADOW RD					Map/Lot:	286 001		Zone:	BP	Date Printed:	01-20-21		
911 Address:						Exempt			Nbhd:	C30	Last Update:	12-29-20		
Owner Of Record							Volume/Page	Date	Sales Type		Valid	Sale Price		
100 GREAT MEADOW ROAD ASSOCIATES LLC							1103 /0136	10-06-03			NO	0		
100 GREAT MEADOW RD WETHERSFIELD , CT 06109														
Additional Owners:														
Prior Owner History														
PUTNAM PARK ASSOCIATES % P CHRISTOPHER HENNEY CO							0333 /0388	03-21-83			NO	300,000		
							/							
							/							
							/							
							/							
Permit Number	Date	Cost	New Hous	Status	% Comp	Est Completion	Building Permit							
E-21-0011	01-11-21	9,970	Yes	Imported Rec	0	01-01-01	Wiring of infrared heaters for outdoor seating at River Restaurant on t							
E-21-0013	01-11-21	1,800	Yes	Imported Rec	0	01-01-01	Install 3 cat 6 drops. Test existing cat 5 data lines. Add 2 plugs fo							
P-20-0182	10-21-20	50,000	No	Closed	100	10-01-21	INSTALLATION OF 22 INFRARED HEATERS ON OUTSIDE DINING DECK							
B-20-0529	09-22-20	25,000	No	Closed	100	10-01-21	TENANT FIT-OUT FOR 5TH FLOOR (FORREST LAW)							
B-20-0365	08-14-20	20,000	No	Closed	100	10-14-20	BATHROOM REPAIRS							
E-20-0305	07-31-20	12,500	No	Closed	100	10-01-20	Replace existing garage lighting with LED lighting. All fixtures are t							
State Item Codes														
Census/Tract 4921			Code			Quantity	Value	Code		Quantity	Value	Appraised Value		
Dev Map			Dev Lot 32EP			21- Comm Land	9.03	995,070					Total Land Value	1,421,525
Date 06/24/2015			03/24/2014			22-Comm Bldg	1.00	9,732,930					Total Building Value	13,904,195
Inspector CR						25-Comm Outbldg	4.00	2,222,000					Total Outbuilding Value	3,174,280
Action 44			BAA Hearing-NC									Total Market Value	18,500,000	
Acres							Influence Factors							
Land Type	Acres	490	Rate	Adj	Influence	Total Value	Land Type	Influence	Reason	Comment				
Primary Site	1.84	0.00	216,000	1.00	400	1,080,000	Primary Site	400	Intensive Use					
Comm Excess	7.19	0.00	10,000	0.95	400	341,525	Commercial Excess	400	Intensive Use					
Total	9.03					1,421,525								
Assessment History (Prior Years as of Oct 1)							490 Appraised Totals							
	Current	2019	2018	2017	2016		Type	Acres	Value	Type	Acres	Value		
Land	995,070	995,070	995,060	928,400	928,400									
Building	9,732,930	9,732,930	10,863,090	8,471,600	10,643,100									
Outbuilding	2,222,000	2,222,000	2,222,000	1,450,000	1,450,000									
Total	12,950,000	12,950,000	14,080,150	10,850,000	13,021,500									
Comments														
ATRIUM CAFE,O'SULLIVAN,AON,RIVER,100 GREAT MEADOW,VHB,YELLOW PAGES,ECO SVC,AON,O'CONNOR DAVIES,CT BUSINESS,HAKS,NCS PEARSON,SENIORLINK,MODIS 2018GL-STIPULATED AGREEMENT THRU BAA 2500 A MONTH, 4 CARRIERS(2500X12=30,000X5 VACX5 EXPX 8 CAP =338,437 350 FPM ELEC 3 OTIS ELEV 2500 CAP OFFICE BLDG/BAA#109;COURT STIP 2013-2017														

Unique ID: 286001

Wethersfield

Location: 100 GREAT MEADOW RD Unit

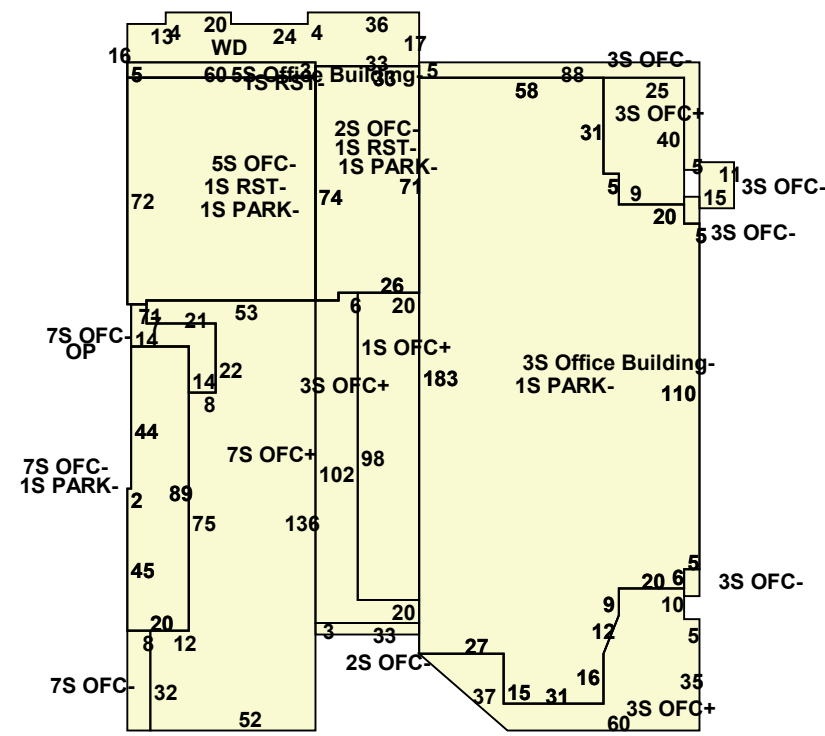
Use	Class	Quality	Stry	WH	Area	BG	Units
Restaurant	Steel	B-	1	10	7,031	NO	
Office Building	Steel	B-	7	10	145,544	NO	
Undr Bldg Park	Steel	B-	1	10	23,119	NO	

Commercial Building Description	Description	Area/Qty	Value
Building Use Office Building	Base Value	175,694	17,072,994
Class Steel	Central Air	17,072,994	230,485
Overall Condition Good	Commercial Passenger Elev	4	162,000
Construction Quality B-	Unfinished Basement Area	11,956	239,120
Stories 7.00	Wet Sprinklers	175,694	237,187
Year Built 1985	Value Before Depr.	0	17,941,786
Remodel	Depr/Adjust Amount	0	1,973,596
Percent Complete 100	Final Value (After Depr)	0	15,968,189
GLA 175,694			
Basement			
Basement Area 11956			
Basement Unfinished Area			
HVAC			
Heating Type Floor Furnace			
Fuel Type Electric			
Cooling Type Central 100%			
Interior			
Floors Carpet			
Walls Drywall			
Wall Height 10			
Exterior			
Exterior Walls Glass/Thermo.			
Roof Cover Tar and Gravel			
Special Features			
Comm Pass Elev 4			
Wet Sprinkler 175,694			

Attached Component Computations				
Type	Yr Bilt	Condition	Area/Qty	Value
Wood Deck	2017	Good	1,613	31,219
Open Porch	1985	Good	350	4,120

Detached Component Computations									
Type	Year	Condition	Area/Qty	Value	Type	Year	Condition	Area/Qty	Value
Penthouse	2003	Average/Fair	1,200	27,000					
Lights in W/PL	1999	Good	28	152,880					
Paving	1999	Good	118,000	94,400					
Cell Tower	2000	Average	1	2,900,000					

Total Building Value			
Building 1	Value	16,003,528	
Valuation Method	I		



ATTACHMENT 6



**WETHERSFIELD
Certificate of Mailing — Firm**

Name and Address of Sender Kenneth C. Baldwin, Esq. Robinson & Cole LLP 280 Trumbull Street Hartford, CT 06103	TOTAL NO. of Pieces Listed by Sender	TOTAL NO. of Pieces Received at Post Office™	Affix Stamp Here <i>Postmark with Date of Receipt.</i>		
	Postmaster, per (name of receiving employee)				

USPS® Tracking Number Firm-specific Identifier	Address (Name, Street, City, State, and ZIP Code™)	Postage	Fee	Special Handling	Parcel Airlift
1.	Bonnie Therrien, Interim Town Manager Town of Wethersfield 505 Silas Deane Highway Wethersfield, CT 06109				
2.	Peter Gillespie, Director of Planning and Economic Development Town of Wethersfield 505 Silas Deane Highway Wethersfield, CT 06109				
3.	100 Great Meadow Road Associates LLC 100 Great Meadow Road Wethersfield, CT 06109				
4.					
5.					
6.					