

RACHEL A. SCHWARTZMAN

Please Reply To: Bridgeport
Writer's Direct Dial: (203) 337-4110
E-Mail: rschwartzman@cohenandwolf.com

March 5, 2015

Attorney Melanie Bachman
Acting Executive Director
Connecticut Siting Council
Ten Franklin Square
New Britain, CT 06501

**Re: Notice of Exempt Modification
AT&T Towers/T-Mobile Equipment Upgrade
Site ID CT11224A
59 Youngs Apple Orchard Road, North Branford, CT**

Dear Attorney Bachman:

This office represents T-Mobile Northeast LLC ("T-Mobile") and has been retained to file exempt modification filings with the Connecticut Siting Council on its behalf.

In this case, AT&T Towers owns the existing self-supporting telecommunications tower and related facility at site 59 Youngs Apple Orchard Road, North Branford, CT (41.421013/-72.749453). T-Mobile intends to replace three (3) existing antennas with three (3) new antennas and related equipment at this existing telecommunications facility in North Branford ("North Branford Facility"). Please accept this letter as notification, pursuant to R.C.S.A. §16-50j-73, of construction which 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 the mayor, Anthony Candelora, and the property owner, Southern New England Telephone Company.

The existing North Branford Facility consists of a 125-foot self-supporting tower.¹ T-Mobile plans to replace three (3) existing antennas with three (3) new antennas mounted on proposed pipe at a centerline of 94 feet. T-Mobile will also install six (6) coax cable lines to follow the existing coax cables, replace an existing equipment cabinet with a proposed 6102 equipment cabinet, and install three (3) remote radio units ("RRUs") on a proposed unistrut within the equipment shelter. (See the plans revised to March 3, 2015, attached hereto as **Exhibit A**). The existing North Branford Facility is structurally capable of supporting T-Mobile's proposed modifications, as indicated in the structural analysis dated February 11, 2015, and attached hereto as **Exhibit B**.

¹ While the online docket for the Connecticut Siting Council does not provide a docket or petition number for approval of this structure, it does reference this structure in connection with a notice of intent captioned EM-SPRINT-NEXTEL-099-121212, as well as uncaptioned notices of intent for Sprint PCS and Omnipoint Communications, Inc.

March 5, 2015
CT11224A
Page 2

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

1. The proposed modification will not increase the height of the tower. T-Mobile's existing antennas are at a centerline of 94 feet; the replacement antennas will be installed at the same 94-foot level. The enclosed tower drawing confirms that the proposed modification will not increase the height of the tower.

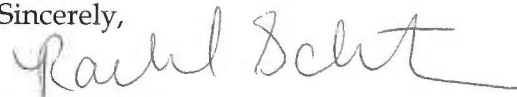
2. The proposed modifications will not require an extension on the site boundaries or lease area, as depicted on Sheet A-1 of Exhibit A. T-Mobile's equipment will be located entirely within the existing compound area.

3. The proposed modification to the Facility will not increase the noise levels at the existing facility by six decibels or more.

4. The operation of the replacement antennas and equipment will not increase the total radio frequency (RF) power density, measured at the base of the tower, to a level at or above the applicable standard. According to a Radio Frequency Emissions Analysis Report prepared by EBI dated February 24, 2015, T-Mobile's operations would add 11.79% of the FCC Standard. Therefore, the calculated "worst case" power density for the planned combined operation at the site including all of the proposed antennas would be 17.06% of the FCC Standard as calculated for a mixed frequency site as evidenced by the engineering exhibit attached hereto as **Exhibit C**.

For the foregoing reasons, T-Mobile respectfully submits that the proposed replacement antennas and equipment at the North Branford Facility constitutes an exempt modification under R.C.S.A. § 16-50j-72(b)(2). Upon acknowledgement of this exempt modification, T-Mobile shall commence construction approximately sixty days from the receipt of the Council's decision.

Sincerely,



Rachel A. Schwartzman, Esq.

cc: Mayor Anthony Candelora, Town of North Branford
AT&T Towers
Southern New England Telephone Company
Elizabeth Jamieson, Transcend Wireless

EXHIBIT A

SITE NAME: GUILFORD-1_1
59 YOUNGS APPLE ORCHARD ROAD
NORTH BRANFORD, CT 06472
NEW HAVEN COUNTY

SITE NUMBER: CT11224A
L700 - 704G CONFIGURATION

T-MOBILE NORTHEAST LLC
 35 GRIFFIN ROAD SOUTH
 BLOOMFIELD, CT 06002
 OFFICE: (860) 648-1116

Transcend Wireless

TRANSCEND WIRELESS
 10 INDUSTRIAL AVE
 MIDDLETOWN, CT 06450
 TEL: (203) 864-0255
 FAX: (203) 864-0066



1800 GREGORY STREET
 SUITE 300
 N. HARTFORD, CT 06105
 TEL: (860) 527-5533
 FAX: (860) 326-5588



APPROVALS

CONSTRUCTION	DATE
RF ENGINEERING	DATE
ZONING/SITE ACO.	DATE
OPERATIONS	DATE
TOWER OWNER	DATE
PROJECT NO:	CT11224A
DRAWN BY:	AS
CHECKED BY:	DR

PROJECT INFORMATION

SCOPE OF WORK: UNMANNED TELECOMMUNICATIONS FACILITY T-MOBILE EQUIPMENT MODERNIZATION

ZONING JURISDICTION: BASED ON INFORMATION PROVIDED BY T-MOBILE, THIS TELECOMMUNICATIONS EQUIPMENT DEPLOYMENT IS AN ELIGIBLE FACILITY UNDER THE TAX RELIEF ACT OF 2012, 47 USC 1455(A), AND IS SUBJECT TO AN EXPEDITED ELIGIBLE FACILITIES REQUEST/REVIEW AND ZONING PRE-EMPTION FOR LOCAL DISCRETIONARY PERMITS (VARIANCE, SPECIAL PERMIT, SITE PLAN REVIEW).

SITE ADDRESS: 59 YOUNGS APPLE ORCHARD ROAD
 NORTH BRANFORD, CT 06472

LATITUDE: 41° 25' 15.798" N
 LONGITUDE: 72° 44' 57.6922" W

JURISDICTION: NATIONAL, STATE & LOCAL CODES OR ORDINANCES

CURRENT USE: TELECOMMUNICATIONS FACILITY

PROPOSED USE: TELECOMMUNICATIONS FACILITY



GENERAL NOTES



- THIS DOCUMENT IS THE CREATION, DESIGN, PROPERTY AND COPYRIGHTED WORK OF T-MOBILE. ANY DUPLICATION OR USE WITHOUT EXPRESS WRITTEN CONSENT IS STRICTLY PROHIBITED. DUPLICATION AND USE BY GOVERNMENT AGENCIES FOR THE PURPOSES OF CONDUCTING THEIR LAWFULLY AUTHORIZED REGULATORY AND ADMINISTRATIVE FUNCTIONS IS SPECIFICALLY ALLOWED.
- THE FACILITY IS AN UNMANNED PRIVATE AND SECURED EQUIPMENT INSTALLATION. IT IS ONLY ACCESSED BY TRAINED TECHNICIANS FOR PERIODIC ROUTINE MAINTENANCE AND THEREFORE DOES NOT REQUIRE ANY WATER OR SANITARY SEWER SERVICE. THE FACILITY IS NOT GOVERNED BY REGULATIONS REQUIRING PUBLIC ACCESS PER ADA REQUIREMENTS.
- CONTRACTOR SHALL VERIFY ALL PLANS AND EXISTING DIMENSIONS AND CONDITIONS ON THE JOB SITE AND SHALL IMMEDIATELY NOTIFY THE T-MOBILE NORTHEAST, LLC REPRESENTATIVE IN WRITING OF DISCREPANCIES BEFORE PROCEEDING WITH THE WORK OR BE RESPONSIBLE FOR SAME.

SPECIAL STRUCTURAL NOTES

- STRUCTURAL DESIGNS AND DETAILS FOR ANTENNA MOUNTS COMPLETED BY HUDSON DESIGN ON BEHALF OF T-MOBILE ARE INCLUSIVE OF THE ENTIRE ANTENNA SUPPORT STRUCTURE (GLOBAL STRUCTURAL STABILITY ANALYSIS BY OTHERS), EXISTING TOWER PLATFORM, EXISTING ANTENNA MOUNTS AND ALL OTHER ASPECTS OF THE STRUCTURE THAT WILL SUPPORT THE T-MOBILE MODERNIZATION EQUIPMENT DEPLOYMENT AS DEPICTED HEREIN.
- HUDSON DESIGN ASSUMES THAT THE TOWER IS PROPERLY CONSTRUCTED AND MAINTAINED. ALL STRUCTURAL MEMBERS AND THEIR CONNECTION ARE ASSUMED TO BE IN GOOD CONDITION AND ARE FREE FROM DEFECTS WITH NO DETERIORATION TO ITS MEMBER CAPACITIES

T-MOBILE TECHNICIAN SITE SAFETY NOTES

LOCATION	SPECIAL RESTRICTIONS
SECTOR A:	ACCESS NOT PERMITTED
SECTOR B:	ACCESS NOT PERMITTED
SECTOR C:	ACCESS NOT PERMITTED
GPS/LMU:	UNRESTRICTED
RADIO CABINETS:	UNRESTRICTED
PPC DISCONNECT:	UNRESTRICTED
MAIN CIRCUIT D/C:	UNRESTRICTED
NIU/T DEMARC:	UNRESTRICTED
OTHER/SPECIAL:	NONE

 **CALL BEFORE YOU DIG** 

CALL TOLL FREE 800-922-4455
 OR CALL 811
 UNDERGROUND SERVICE ALERT

DRAWING INDEX

DRAWING	REV
T-1 TITLE SHEET	3
GN-1 GENERAL NOTES	3
A-1 COMPOUND & ELEVATION PLAN	3
A-2 EXISTING & PROPOSED EQUIPMENT LAYOUT	3
A-3 ANTENNA PLAN & DETAILS	3
G-1 GROUNDING DETAILS	3

3	03/03/15	ISSUED FOR REVIEW
2	02/02/15	ISSUED FOR REVIEW
1	11/07/14	ISSUED FOR REVIEW
0	08/19/14	ISSUED FOR REVIEW

SITE NUMBER: CT11224A

SITE NAME:
 GUILFORD-1_1
 59 YOUNGS APPLE ORCHARD ROAD
 NORTH BRANFORD, CT 06472

SHEET TITLE
 TITLE SHEET

SHEET NUMBER
 T-1

GROUNDING NOTES

1. THE SUBCONTRACTOR SHALL REVIEW AND INSPECT THE EXISTING FACILITY GROUNDING SYSTEM AND LIGHTNING PROTECTION SYSTEM (AS DESIGNED AND INSTALLED) FOR STRICT COMPLIANCE WITH THE NEC (AS ADOPTED BY THE AHJ). THE SITE-SPECIFIC (UL, LP, OR NFPA) LIGHTNING PROTECTION CODE, AND GENERAL COMPLIANCE WITH TELCORDIA AND TIA GROUNDING STANDARDS. THE SUBCONTRACTOR SHALL REPORT ANY VIOLATIONS OR ADVERSE FINDINGS TO THE CONTRACTOR FOR RESOLUTION.
2. ALL GROUND ELECTRODE SYSTEMS (INCLUDING TELECOMMUNICATION, RADIO, LIGHTNING PROTECTION, AND AC POWER GESS) SHALL BE BONDED TOGETHER, AT OR BELOW GRADE, BY TWO OR MORE COPPER BONDING CONDUCTORS IN ACCORDANCE WITH THE NEC.
3. THE SUBCONTRACTOR SHALL PERFORM IEEE FALL-OF-POTENTIAL RESISTANCE TO EARTH TESTING (PER IEEE 1100 AND 81) FOR NEW GROUND ELECTRODE SYSTEMS. THE SUBCONTRACTOR SHALL FURNISH AND INSTALL SUPPLEMENTAL GROUND ELECTRODES AS NEEDED TO ACHIEVE A TEST RESULT OF 5 OHMS OR LESS.
4. METAL RACEWAY SHALL NOT BE USED AS THE NEC REQUIRED EQUIPMENT GROUND CONDUCTOR. STRANDED COPPER CONDUCTORS WITH GREEN INSULATION, SIZED IN ACCORDANCE WITH THE NEC, SHALL BE FURNISHED AND INSTALLED WITH THE POWER CIRCUITS TO BTS EQUIPMENT.
5. EACH BTS CABINET FRAME SHALL BE DIRECTLY CONNECTED TO THE MASTER GROUND BAR WITH GREEN INSULATED SUPPLEMENTAL EQUIPMENT GROUND WIRES, 6 AWG STRANDED COPPER OR LARGER FOR INDOOR BTS 2 AWG STRANDED COPPER FOR OUTDOOR BTS.
6. EXOTHERMIC WELDS SHALL BE USED FOR ALL GROUNDING CONNECTIONS BELOW GRADE.
7. APPROVED ANTI-OXIDANT COATINGS (I.E., CONDUCTIVE GEL OR PASTE) SHALL BE USED ON ALL COMPRESSION AND BOLTED GROUND CONNECTIONS.
8. ICE BRIDGE BONDING CONDUCTORS SHALL BE EXOTHERMICALLY BONDED OR BOLTED TO THE BRIDGE AND THE TOWER GROUND BAR.
9. ALUMINUM CONDUCTOR OR COPPER CLAD STEEL CONDUCTOR SHALL NOT BE USED FOR GROUNDING CONNECTIONS.
10. MISCELLANEOUS ELECTRICAL AND NON-ELECTRICAL METAL BOXES, FRAMES AND SUPPORTS SHALL BE BONDED TO THE GROUND RING, IN ACCORDANCE WITH THE NEC.
11. METAL CONDUIT SHALL BE MADE ELECTRICALLY CONTINUOUS WITH LISTED BONDING FITTINGS OR BY BONDING ACROSS THE DISCONTINUITY WITH 6 AWG COPPER WIRE UL APPROVED GROUNDING TYPE CONDUIT CLAMPS.
12. ALL NEW STRUCTURES WITH A FOUNDATION AND/OR FOOTING HAVING 20 FT. OR MORE OF 1/2 IN. OR GREATER ELECTRICALLY CONDUCTIVE REINFORCING STEEL MUST HAVE IT BONDED TO THE GROUND RING USING AN EXOTHERMIC WELD CONNECTION USING #2 AWG SOLID BARE TINNED COPPER GROUND WIRE, PER NEC 250.50

GENERAL NOTES

1. FOR THE PURPOSE OF CONSTRUCTION DRAWING, THE FOLLOWING DEFINITIONS SHALL APPLY:
CONTRACTOR - TRANSCEND WIRELESS
SUBCONTRACTOR - GENERAL CONTRACTOR (CONSTRUCTION)
OWNER - T-MOBILE
2. PRIOR TO THE SUBMISSION OF BIDS, THE BIDDING SUBCONTRACTOR SHALL VISIT THE CELL SITE TO FAMILIARIZE WITH THE EXISTING CONDITIONS AND TO CONFIRM THAT THE WORK CAN BE ACCOMPLISHED AS SHOWN ON THE CONSTRUCTION DRAWINGS. ANY DISCREPANCY FOUND SHALL BE BROUGHT TO THE ATTENTION OF CONTRACTOR.
3. ALL MATERIALS FURNISHED AND INSTALLED SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES, REGULATIONS, AND ORDINANCES. SUBCONTRACTOR SHALL ISSUE ALL APPROPRIATE NOTICES AND COMPLY WITH ALL LAWS, ORDINANCES, RULES, REGULATIONS, AND LAWFUL ORDERS OF ANY PUBLIC AUTHORITY REGARDING THE PERFORMANCE OF THE WORK. ALL WORK CARRIED OUT SHALL COMPLY WITH ALL APPLICABLE MUNICIPAL AND UTILITY COMPANY SPECIFICATIONS AND LOCAL JURISDICTIONAL CODES, ORDINANCES AND APPLICABLE REGULATIONS.
4. DRAWINGS PROVIDED HERE ARE NOT TO BE SCALED AND ARE INTENDED TO SHOW OUTLINE ONLY.
5. UNLESS NOTED OTHERWISE, THE WORK SHALL INCLUDE FURNISHING MATERIALS, EQUIPMENT, APPURTENANCES, AND LABOR NECESSARY TO COMPLETE ALL INSTALLATIONS AS INDICATED ON THE DRAWINGS.
6. "KITTING LIST" SUPPLIED WITH THE BID PACKAGE IDENTIFIES ITEMS THAT WILL BE SUPPLIED BY CONTRACTOR. ITEMS NOT INCLUDED IN THE BILL OF MATERIALS AND KITTING LIST SHALL BE SUPPLIED BY THE SUBCONTRACTOR.
7. THE SUBCONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS UNLESS SPECIFICALLY STATED OTHERWISE.
8. IF THE SPECIFIED EQUIPMENT CANNOT BE INSTALLED AS SHOWN ON THESE DRAWINGS, THE SUBCONTRACTOR SHALL PROPOSE AN ALTERNATIVE INSTALLATION SPACE FOR APPROVAL BY THE CONTRACTOR.
9. SUBCONTRACTOR SHALL DETERMINE ACTUAL ROUTING OF CONDUIT, POWER AND T1 CABLES, GROUNDING CABLES AS SHOWN ON THE POWER, GROUNDING AND TIE/CO PLAN DRAWING. SUBCONTRACTOR SHALL UTILIZE EXISTING TRAYS AND/OR SHALL ADD NEW TRAYS AS NECESSARY. SUBCONTRACTOR SHALL CONFIRM THE ACTUAL ROUTING WITH THE CONTRACTOR.
10. THE SUBCONTRACTOR SHALL PROTECT EXISTING IMPROVEMENTS, PAVEMENTS, CURBS, LANDSCAPING AND STRUCTURES. ANY DAMAGED PART SHALL BE REPAIRED AT SUBCONTRACTOR'S EXPENSE TO THE SATISFACTION OF OWNER.
11. SUBCONTRACTOR SHALL LEGALLY AND PROPERLY DISPOSE OF ALL SCRAP MATERIALS SUCH AS COAXIAL CABLES AND OTHER ITEMS REMOVED FROM THE EXISTING FACILITY. ANTENNAS REMOVED SHALL BE RETURNED TO THE OWNER'S DESIGNATED LOCATION.
12. SUBCONTRACTOR SHALL LEAVE PREMISES IN CLEAN CONDITION.
13. ALL CONCRETE REPAIR WORK SHALL BE DONE IN ACCORDANCE WITH AMERICAN CONCRETE INSTITUTE (ACI) 301.
14. ANY NEW CONCRETE NEEDED FOR THE CONSTRUCTION SHALL BE AIR-ENTRAINED AND SHALL HAVE 4000 PSI STRENGTH AT 28 DAYS. ALL CONCRETE WORK SHALL BE DONE IN ACCORDANCE WITH ACI 318 CODE REQUIREMENTS.
15. ALL STRUCTURAL STEEL WORK SHALL BE DETAILED, FABRICATED AND ERECTED IN ACCORDANCE WITH AISC SPECIFICATIONS. ALL STRUCTURAL STEEL SHALL BE ASTM A36 (Fy = 36 ksi) UNLESS OTHERWISE NOTED. PIPES SHALL BE ASTM A53 TYPE E (Fy = 36 ksi). ALL STEEL EXPOSED TO WEATHER SHALL BE HOT DIPPED GALVANIZED. TOUCH-UP ALL SCRATCHES AND OTHER MARKS IN THE FIELD AFTER STEEL IS ERECTED USING A COMPATIBLE ZINC RICH PAINT.
16. CONSTRUCTION SHALL COMPLY WITH UMWTS SPECIFICATIONS AND "GENERAL CONSTRUCTION SERVICES FOR CONSTRUCTION OF T-MOBILE SITES."
17. SUBCONTRACTOR SHALL VERIFY ALL EXISTING DIMENSIONS AND CONDITIONS PRIOR TO COMMENCING ANY WORK. ALL DIMENSIONS OF EXISTING CONSTRUCTION SHOWN ON THE DRAWINGS MUST BE VERIFIED. SUBCONTRACTOR SHALL NOTIFY THE CONTRACTOR OF ANY DISCREPANCIES PRIOR TO ORDERING MATERIAL OR PROCEEDING WITH CONSTRUCTION.
18. THE EXISTING CELL SITE IS IN FULL COMMERCIAL OPERATION. ANY CONSTRUCTION WORK BY SUBCONTRACTOR SHALL NOT DISRUPT THE EXISTING NORMAL OPERATION. ANY WORK ON EXISTING EQUIPMENT MUST BE COORDINATED WITH CONTRACTOR. ALSO WORK SHOULD BE SCHEDULED FOR AN APPROPRIATE MAINTENANCE WINDOW USUALLY IN LOW TRAFFIC PERIODS AFTER MIDNIGHT.
19. SINCE THE CELL SITE IS ACTIVE, ALL SAFETY PRECAUTIONS MUST BE TAKEN WHEN WORKING AROUND HIGH LEVELS OF ELECTROMAGNETIC RADIATION. EQUIPMENT SHOULD BE SHUTDOWN PRIOR TO PERFORMING ANY WORK THAT COULD EXPOSE THE WORKERS TO DANGER. PERSONAL RF EXPOSURE MONITORS ARE ADVISED TO BE WORN TO ALERT OF ANY DANGEROUS EXPOSURE LEVELS.
20. APPLICABLE BUILDING CODES:
SUBCONTRACTOR'S WORK SHALL COMPLY WITH ALL APPLICABLE NATIONAL, STATE, AND LOCAL CODES AS ADOPTED BY THE LOCAL AUTHORITY HAVING JURISDICTION (AHJ) FOR THE LOCATION. THE EDITION OF THE AHJ ADOPTED CODES AND STANDARDS IN EFFECT ON THE DATE OF CONTRACT AWARD SHALL GOVERN THE DESIGN.
BUILDING CODE: IBC 2003 W/ 2005 CT SUPPLEMENT + 2009 AMENDMENT
ELECTRICAL CODE: REFER TO ELECTRICAL DRAWINGS
LIGHTENING CODE: REFER TO ELECTRICAL DRAWINGS
SUBCONTRACTOR'S WORK SHALL COMPLY WITH THE LATEST EDITION OF THE FOLLOWING STANDARDS:
AMERICAN CONCRETE INSTITUTE (ACI) 318: BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE;
AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC)
MANUAL OF STEEL CONSTRUCTION, ASD, NINTH EDITION;
TELECOMMUNICATIONS INDUSTRY ASSOCIATION (TIA) 222-F,
STRUCTURAL STANDARDS FOR STEEL.
ANTENNA TOWER AND ANTENNA SUPPORTING STRUCTURES: REFER TO ELECTRICAL DRAWINGS FOR SPECIFIC ELECTRICAL STANDARDS.
FOR ANY MATERIALS BETWEEN SECTIONS OF LISTED CODES AND STANDARDS REGARDING MATERIAL, METHODS OF CONSTRUCTION, OR OTHER REQUIREMENTS, THE MOST RESTRICTIVE REQUIREMENT SHALL GOVERN, WHERE THERE IS CONFLICT BETWEEN A GENERAL REQUIREMENT AND A SPECIFIC REQUIREMENT, THE SPECIFIC REQUIREMENT SHALL GOVERN.

ABBREVIATIONS

AGL	ABOVE GRADE LEVEL	G.C.	GENERAL CONTRACTOR	RF	RADIO FREQUENCY
AWG	AMERICAN WIRE GAUGE	MGB	MASTER GROUND BUS	TBD	TO BE DETERMINED
BCW	BARE COPPER WIRE	MIN	MINIMUM	TBR	TO BE REMOVED
BTS	BASE TRANSCIVER STATION	PROPOSED	NEW	TBR	TO BE REMOVED
EG	EQUIPMENT EXISTING	N.T.S.	NOT TO SCALE	TBR	TO BE REMOVED AND REPLACED
EGR	EQUIPMENT GROUND RING	REF	REFERENCE	TP	TYPICAL
		REQ	REQUIRED		

T-MOBILE NORTHEAST LLC
35 GRIFFIN ROAD SOUTH
BLOOMFIELD, CT 06002
OFFICE: (860) 648-1116



APPROVALS

CONSTRUCTION	DATE
RF ENGINEERING	DATE
ZONING/SITE ACQ.	DATE
OPERATIONS	DATE
TOWER OWNER	DATE
PROJECT NO:	CT11224A

DRAWN BY: AS
CHECKED BY: DR

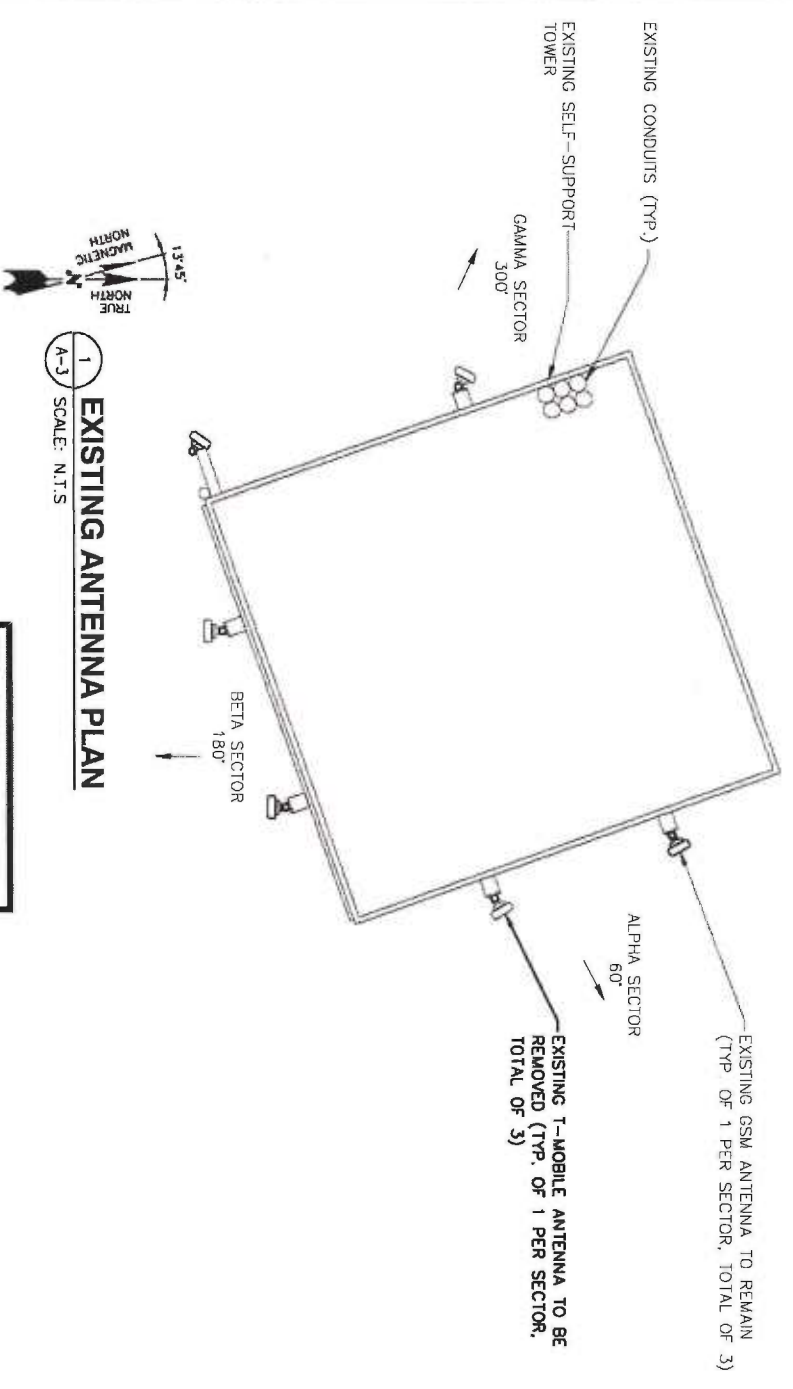
1	01/07/14	ISSUED FOR REVIEW
2	02/02/15	ISSUED FOR REVIEW
3	03/03/15	ISSUED FOR REVIEW
0	08/19/14	ISSUED FOR REVIEW

SITE NUMBER: CT11224A
SITE NAME:
GUILFORD-1_1
59 YOUNGS APPLE ORCHARD ROAD
NORTH BRANFORD, CT 06472

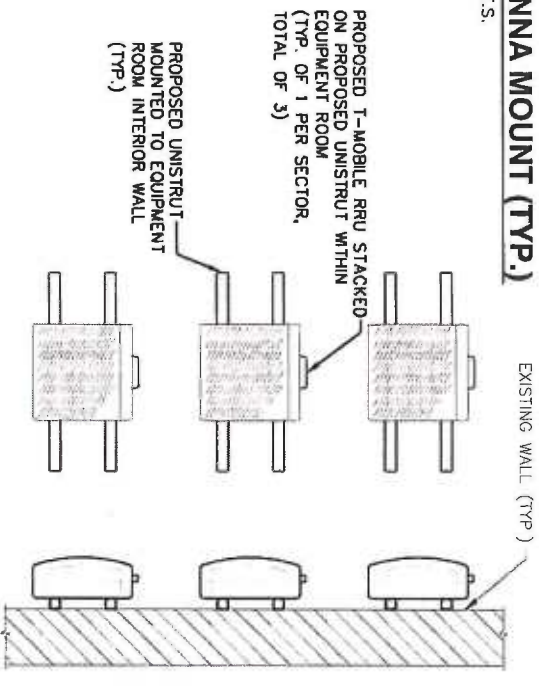
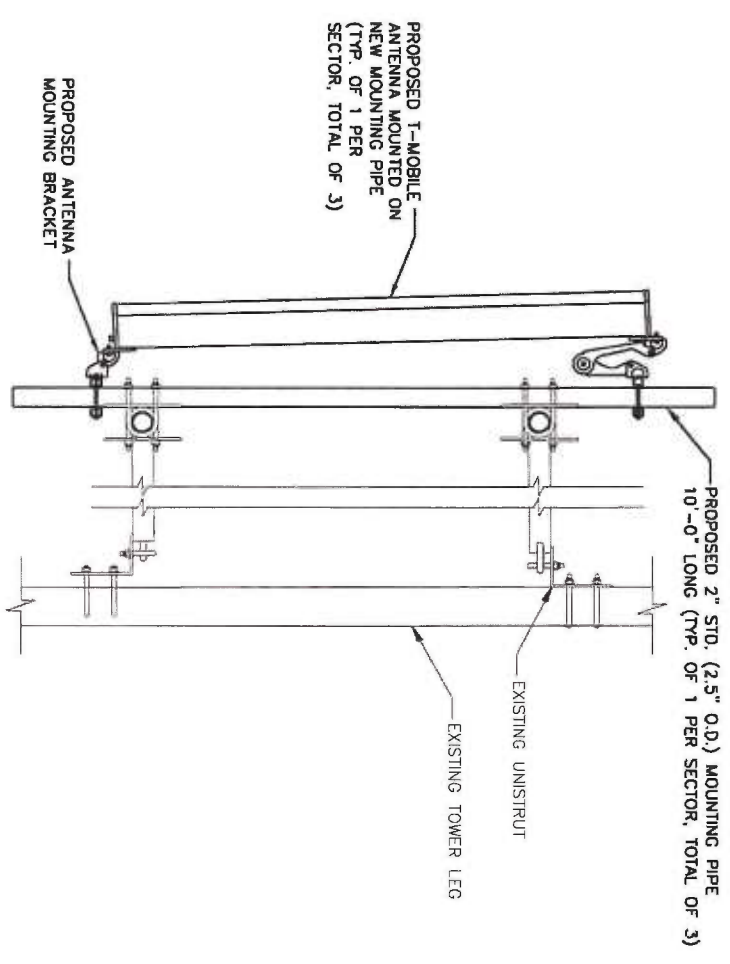
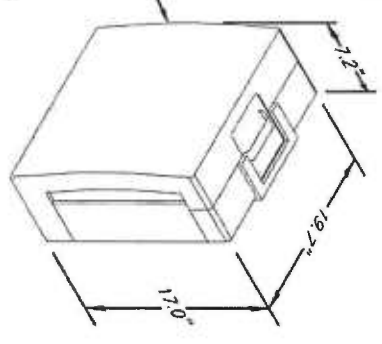
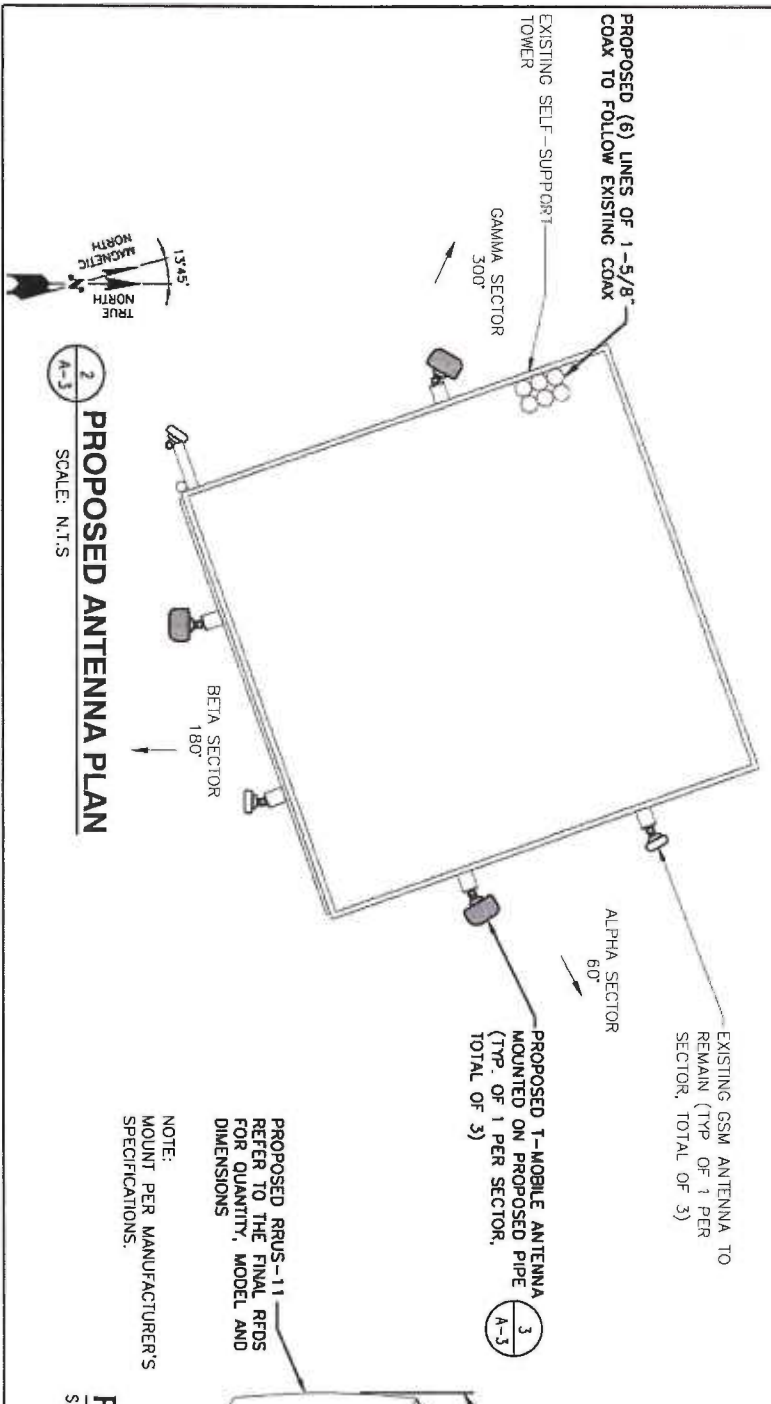
SHEET TITLE
GENERAL NOTES
SHEET NUMBER
GN-1

NOTE:
 GENERAL CONTRACTOR TO REFER TO THE STRUCTURAL ANALYSIS BY: GPD GROUP DATED: FEBRUARY 11, 2015 AND EQUIPMENT INSTALLATION RECOMMENDATIONS PRIOR TO COMMENCING CONSTRUCTION

PROPOSED ANTENNA SCHEDULE			
SECTOR	MAKE	MODEL#	SIZE (INCHES)
ALPHA:	COMMSCOPE	LNX-6515DS-VTM	96.4x11.9x7.1
BETA:	COMMSCOPE	LNX-6515DS-VTM	96.4x11.9x7.1
GAMMA:	COMMSCOPE	LNX-6515DS-VTM	96.4x11.9x7.1



NOTE:
 REFER TO THE FINAL RF DATA SHEET FOR FINAL ANTENNA SETTINGS.



T-MOBILE NORTHEAST LLC
 35 GRIFFIN ROAD SOUTH
 BLOOMFIELD, CT 06002
 OFFICE: (860) 648-1116

Transcend Wireless
 TRANSCEND WIRELESS
 10 INDUSTRIAL AVE
 MIDDLETOWN, CT 06450
 TEL: (203) 844-0055
 FAX: (203) 844-0066

Hudson Design Group, Inc.
 1400 SICOLOSA STREET
 BUILDING 20 NORTH, SUITE 3096
 N ANDOVER, MA 01845
 TEL: (978) 557-5553
 FAX: (978) 534-5588



CONSTRUCTION	DATE	
RF ENGINEERING	DATE	
ZONING/SITE ACO.	DATE	
OPERATIONS	DATE	
TOWER OWNER	DATE	
PROJECT NO:	CT11224A	
DRAWN BY:	AS	
CHECKED BY:	DR	
3	03/03/15	ISSUED FOR REVIEW
3	02/02/15	ISSUED FOR REVIEW
1	11/07/14	ISSUED FOR REVIEW
0	08/19/14	ISSUED FOR REVIEW
SITE NUMBER: CT11224A		
SITE NAME: GUILFORD-1.1		
59 YOUNGS APPLE ORCHARD ROAD NORTH BRANFORD, CT 06472		
SHEET TITLE ANTENNA PLAN & DETAILS		
SHEET NUMBER A-3		

EXHIBIT B

SUMMARY & RESULTS

The purpose of this analysis was to verify whether the existing modified structure is capable of carrying the proposed loading configuration as specified by T-Mobile to AT&T Towers. This report was commissioned by Ms. Julie Overman of AT&T Towers.

No foundation or geotechnical information was available or provided for this report. Therefore, the in place capacity of the foundation could not be verified. A thorough and accurate assessment of foundation capacity will require site specific geotechnical and foundation information.

The proposed 1-5/8" coax shall be installed in a six on six configuration with the existing coax supplying the 94' elevation off of tower Leg CB in order for the results of this analysis to be valid. The proposed RET cable shall be installed next to this configuration. See Appendix C for more details.

TOWER SUMMARY AND RESULTS

Member	Capacity	Results
Legs	57.7%	Pass
Leg Bolts	59.0%	Pass
Diagonals	69.6%	Pass
Horizontal	40.5%	Pass
Redundant Members	21.8%	Pass
Inner Bracing	17.5%	Pass
Member Bolts	78.8%	Pass
Anchor Rods	31.6%	Pass
Foundation	Not Verified	N/A

ANALYSIS METHOD

RISA 3D (version 12.0.0) and tnxTower (version 6.1.4.1), commercially available software programs, were used to create a three-dimensional model of the tower and calculate primary member stresses for various dead, live, wind, and ice load cases. Selected output from the analysis is included in Appendix B. The following table details the information provided to complete this structural analysis. This analysis is based solely on this information and is being provided without the benefit of a recent GPD site visit.

DOCUMENTS PROVIDED

Document	Remarks	Source
Notice of Collocation Form	Not Provided	N/A
Site Lease Application	T-Mobile Application, dated 8/11/2014	Siterra
Tower Design	Not Provided	N/A
Foundation Design	Not Provided	N/A
Geotechnical Report	Not Provided	N/A
Previous Structural Analysis	GPD Project #: 2012867.38, dated 11/13/2012	Siterra
Tower Sketch	AT&T Tower Sketch, dated 11/30/2010	Siterra
Tower Mapping	GPD Project #: 2012867.38, dated 10/17/2012	Siterra

ASSUMPTIONS

This structural analysis is based on the theoretical capacity of the members and is not a condition assessment of the tower. This analysis is from information supplied, and therefore, its results are based on and are as accurate as that supplied data. GPD has made no independent determination, nor is it required to, of its accuracy. The following assumptions were made for this structural analysis.

1. The tower member sizes and shapes are considered accurate as supplied. The material grade is as per data supplied and/or as assumed and as stated in the materials section.
2. The antenna configuration is as supplied and/or as modeled in the analysis. It is assumed to be complete and accurate. All antennas, mounts, coax and waveguides are assumed to be properly installed and supported as per manufacturer requirements.
3. Some assumptions are made regarding antennas and mount sizes and their projected areas based on best interpretation of data supplied and of best knowledge of antenna type and industry practice.
4. All mounts, if applicable, are considered adequate to support the loading. No actual analysis of the mount(s) is performed. This analysis is limited to analyzing the tower only.
5. The soil parameters are as per data supplied or as assumed and stated in the calculations.
6. The tower and structures have been properly maintained in accordance with TIA Standards and/or with manufacturer's specifications.
7. All welds and connections are assumed to develop at least the member capacity unless determined otherwise and explicitly stated in this report.
8. All prior structural modifications are assumed to be as per data supplied/available and to have been properly installed.
9. Tower Mounted Amplifiers are assumed to be installed behind antennas.
10. All existing loading was obtained from the previous structural analysis by GPD (Project #: 2012867.38, dated 11/13/2012), site photos and the provided T-Mobile Site Lease Application (dated 8/11/2014), and is assumed to be accurate.
11. The proposed 1-5/8" coax shall be installed in a six on six configuration with the existing coax supplying the 94' elevation off of tower Leg CB in order for the results of this analysis to be valid. The proposed RET cable shall be installed next to this configuration.
12. Face A azimuth of 71° assumed per the AT&T Tower Sketch, dated 11/30/2010.
13. The existing Sprint loading found in site photos was found to vary from the loading listed within the previous structural analysis by GPD (Project #: 2012867.38, dated 11/13/2012). The existing and reserved loading has been modeled based on the loading reflected within site photos.

If any of these assumptions are not valid or have been made in error, this analysis may be affected, and GPD Group should be allowed to review any new information to determine its effect on the structural integrity of the tower.

DISCLAIMER OF WARRANTIES

GPD GROUP has performed a site visit to the tower to verify the member sizes and antenna/coax loading. If the existing conditions are not as represented on the tower elevation contained in this report, we should be contacted immediately to evaluate the significance of the discrepancy. This is not a condition assessment of the tower or foundation. This report does not replace a full tower inspection. The tower and foundations are assumed to have been properly fabricated, erected, maintained, in good condition, twist free, and plumb.

The engineering services rendered by GPD GROUP in connection with this Structural Analysis are limited to a computer analysis of the tower structure and theoretical capacity of its main structural members. No allowance was made for any damaged, bent, missing, loose, or rusted members (above and below ground). No allowance was made for loose bolts or cracked welds.

This analysis is limited to the designated maximum wind and seismic conditions per the governing tower standards and code. Wind forces resulting in tower vibrations near the structure's resonant frequencies were not considered in this analysis and are outside the scope of this analysis. Lateral loading from any dynamic response was not evaluated under a time-domain based fatigue analysis.

GPD GROUP does not analyze the fabrication of the structure (including welding). It is not possible to have all the very detailed information needed to perform a thorough analysis of every structural sub-component and connection of an existing tower. GPD GROUP provides a limited scope of service in that we cannot verify the adequacy of every weld, plate connection detail, etc. The purpose of this report is to assess the capability of adding appurtenances usually accompanied by transmission lines to the structure.

It is the owner's responsibility to determine the amount of ice accumulation in excess of the code specified amount, if any, that should be considered in the structural analysis.

The attached sketches are a schematic representation of the analyzed tower. If any material is fabricated from these sketches, the contractor shall be responsible for field verifying the existing conditions, proper fit, and clearance in the field. Any mentions of structural modifications are reasonable estimates and should not be used as a precise construction document. Precise modification drawings are obtainable from GPD GROUP, but are beyond the scope of this report.

Miscellaneous items such as antenna mounts, etc., have not been designed or detailed as a part of our work. We recommend that material of adequate size and strength be purchased from a reputable tower manufacturer.

Towers are designed to carry gravity, wind, and ice loads. All members, legs, diagonals, struts, and redundant members provide structural stability to the tower with little redundancy. Absence or removal of a member can trigger catastrophic failure unless a substitute is provided before any removal. Legs carry axial loads and derive their strength from shorter unbraced lengths by the presence of redundant members and their connection to the diagonals with bolts or welds. If the bolts or welds are removed without providing any substitute to the frame, the leg is subjected to a higher unbraced length that immediately reduces its load carrying capacity. If a diagonal is also removed in addition to the connection, the unbraced length of the leg is greatly increased, jeopardizing its load carrying capacity. Failure of one leg can result in a tower collapse because there is no redundancy. Redundant members and diagonals are critical to the stability of the tower.

GPD GROUP makes no warranties, expressed and/or implied, in connection with this report and disclaims any liability arising from material, fabrication, and erection of this tower. GPD GROUP will not be responsible whatsoever for, or on account of, consequential or incidental damages sustained by any person, firm, or organization as a result of any data or conclusions contained in this report. The maximum liability of GPD GROUP pursuant to this report will be limited to the total fee received for preparation of this report.

APPENDIX A

Tower Analysis Summary Form

APPENDIX B

Software Output Files and Calculations

tnxTower GPD Group 520 South Main Street, Ste 2531 Akron, OH Phone: (330) 572-2100 FAX: (330) 572-2101	Job SNET016 N. BRANFORD	Page 1 of 4
	Project 2015723.01.SNET016.01 Rev. 1	Date 09:45:49 02/11/15
	Client AT&T Tower	Designed by tclark

Tower Input Data

The main tower is a 4x free standing tower with an overall height of 129.00 ft above the ground line.
The base of the tower is set at an elevation of 0.00 ft above the ground line.
The face width of the tower is 8.92 ft at the top and 25.00 ft at the base.
This tower is designed using the TIA/EIA-222-F standard.
The following design criteria apply:

- Tower is located in New Haven County, Connecticut.
- Basic wind speed of 85 mph.
- Nominal ice thickness of 0.7500 in.
- Ice thickness is considered to increase with height.
- Ice density of 56 pcf.
- A wind speed of 37 mph is used in combination with ice.
- Temperature drop of 50 °F.
- Deflections calculated using a wind speed of 50 mph.
- Pressures are calculated at each section.
- Stress ratio used in tower member design is 1.333.
- Local bending stresses due to climbing loads, feed line supports, and appurtenance mounts are not considered.

Feed Line/Linear Appurtenances - Entered As Round Or Flat

Description	Face or Leg	Allow or Shield	Component Type	Placement ft	Face Offset in	Lateral Offset (Frac FW)	#	# Per Row	Clear Spacing in	Width or Diameter in	Perimeter in	Weight klf
1-1/4" Hybrid Cable	D	Yes	Ar (CfAe)	125.00 - 8.00	-2.0000	-0.4	3	3	1.0000	1.2500		0.00
1/2" cable	D	Yes	Ar (CfAe)	74.00 - 8.00	-2.0000	-0.4	1	1	0.5000	0.5000		0.00
Feedline Ladder (Af)	D	Yes	Af (CfAe)	125.00 - 8.00	-2.0000	-0.4	1	1	3.0000	3.0000	12.0000	0.01
LDF7-50A (1-5/8 FOAM)	D	No	Ar (CfAe)	94.00 - 8.00	6.0000	0.5	12	2	1.0000	1.9800		0.00
RET Cable	D	No	Ar (CfAe)	94.00 - 8.00	3.0000	0.5	1	1	0.4400	0.4400		0.00
T-Bracket	D	No	Af (CfAe)	94.00 - 8.00	6.0000	0.49	1	1	0.2500	3.0000	5.0000	0.01
L4x4x1/4	A	No	Af (CfAe)	79.00 - 0.00	0.0000	0	1	1	4.0000	4.0000	16.0000	0.01
Climbing Pegs	A	No	Ar (CfAe)	79.00 - 0.00	0.0000	0	1	1	0.2500	0.1500		0.00
Safety Line (3/8")	A	No	Ar (CfAe)	79.00 - 0.00	0.0000	0	1	1	0.3750	0.3750		0.00
L4x4x1/4	C	No	Af (CfAe)	129.00 - 75.00	0.0000	0	1	1	4.0000	4.0000	16.0000	0.01
Climbing Pegs	C	No	Ar (CfAe)	129.00 - 75.00	0.0000	0	1	1	0.2500	0.1500		0.00
Safety Line (3/8")	C	No	Ar (CfAe)	129.00 - 75.00	0.0000	0	1	1	0.3750	0.3750		0.00

Discrete Tower Loads

Description	Face or Leg	Offset Type	Offsets: Horz Lateral Vert ft ft ft	Azimuth Adjustment °	Placement ft	C _A A _{Front} ft ²	C _A A _{Side} ft ²	Weight lb	
APXVSP18-C-A20 w/ Mount Pipe	A	From Leg	3.00	1.0000	125.00	No Ice	8.26	6.71	78.90
						1/2" Ice	8.81	7.66	144.31
						1" Ice	9.36	8.49	217.47
						2" Ice	10.50	10.20	390.34
						4" Ice	12.88	13.98	872.84
APXVSP18-C-A20 w/ Mount Pipe	B	From Leg	2.49	34.0000	125.00	No Ice	8.26	6.71	78.90
						1/2" Ice	8.81	7.66	144.31
						1" Ice	9.36	8.49	217.47
						2" Ice	10.50	10.20	390.34

tnxTower GPD Group 520 South Main Street, Ste 2531 Akron, OH Phone: (330) 572-2100 FAX: (330) 572-2101	Job SNET016 N. BRANFORD	Page 3 of 4
	Project 2015723.01.SNET016.01 Rev. 1	Date 09:45:49 02/11/15
	Client AT&T Tower	Designed by tclark

Description	Face or Leg	Offset Type	Offsets:		Azimuth Adjustment	Placement	C _{AA} Front	C _{AA} Side	Weight	
			Horz Lateral	Vert						°
				0.84			1/2" Ice	20.54	23.83	261.33
				0.00			1" Ice	26.47	31.91	350.33
							2" Ice	38.33	48.07	528.33
							4" Ice	62.05	80.39	884.33
Valmont 13' Standoff Frame (1)	C	From Leg	1.08		44.0000	125.00	No Ice	14.61	15.75	172.33
			1.04				1/2" Ice	20.54	23.83	261.33
			0.00				1" Ice	26.47	31.91	350.33
							2" Ice	38.33	48.07	528.33
							4" Ice	62.05	80.39	884.33
RR90-17-02DP w/ Mount Pipe	B	From Face	1.00		-11.0000	94.00	No Ice	4.59	3.32	34.18
			5.00				1/2" Ice	5.09	4.09	71.62
			0.00				1" Ice	5.58	4.78	115.19
							2" Ice	6.59	6.23	223.87
							4" Ice	8.73	9.31	556.85
RR90-17-02DP w/ Mount Pipe	C	From Face	1.00		19.0000	94.00	No Ice	4.59	3.32	34.18
			5.00				1/2" Ice	5.09	4.09	71.62
			0.00				1" Ice	5.58	4.78	115.19
							2" Ice	6.59	6.23	223.87
							4" Ice	8.73	9.31	556.85
RR90-17-02DP w/ Mount Pipe	D	From Face	1.00		49.0000	94.00	No Ice	4.59	3.32	34.18
			5.00				1/2" Ice	5.09	4.09	71.62
			0.00				1" Ice	5.58	4.78	115.19
							2" Ice	6.59	6.23	223.87
							4" Ice	8.73	9.31	556.85
LNX-6516DS-VTM w/ Mount Pipe	B	From Face	1.00		-11.0000	94.00	No Ice	11.45	9.60	79.50
			-5.00				1/2" Ice	12.06	11.02	166.47
			0.00				1" Ice	12.69	12.29	263.19
							2" Ice	14.03	14.51	489.89
							4" Ice	17.05	19.14	1113.80
LNX-6515DS-VTM w/ mount pipe	C	From Face	1.00		19.0000	94.00	No Ice	11.43	9.35	75.82
			-5.00				1/2" Ice	12.05	10.67	160.12
			0.00				1" Ice	12.67	11.70	253.96
							2" Ice	14.02	13.80	473.92
							4" Ice	17.03	18.21	1076.96
LNX-6516DS-VTM w/ Mount Pipe	D	From Face	6.00		49.0000	94.00	No Ice	11.45	9.60	79.50
			-7.00				1/2" Ice	12.06	11.02	166.47
			0.00				1" Ice	12.69	12.29	263.19
							2" Ice	14.03	14.51	489.89
							4" Ice	17.05	19.14	1113.80
6' Standoff	D	From Face	3.00		0.0000	94.00	No Ice	2.72	12.93	145.70
			-7.00				1/2" Ice	4.11	17.82	223.26
			0.00				1" Ice	5.50	22.71	300.83
							2" Ice	8.28	32.49	455.95
							4" Ice	13.84	52.05	766.20
(2) S20057A1	C	From Face	1.00		19.0000	94.00	No Ice	0.82	0.39	11.00
			-5.00				1/2" Ice	0.95	0.49	16.41
			0.00				1" Ice	1.09	0.61	23.48
							2" Ice	1.40	0.87	43.37
							4" Ice	2.11	1.50	111.61
(2) S20057A1	D	From Face	6.00		49.0000	94.00	No Ice	0.82	0.39	11.00
			-7.00				1/2" Ice	0.95	0.49	16.41
			0.00				1" Ice	1.09	0.61	23.48
							2" Ice	1.40	0.87	43.37
							4" Ice	2.11	1.50	111.61
(2) KRY 112 89/5	B	From Face	1.00		-11.0000	94.00	No Ice	0.64	0.43	15.40
			-5.00				1/2" Ice	0.76	0.53	20.46
			0.00				1" Ice	0.88	0.64	27.07

tnxTower GPD Group 520 South Main Street, Ste 2531 Akron, OH Phone: (330) 572-2100 FAX: (330) 572-2101	Job SNET016 N. BRANFORD	Page 4 of 4
	Project 2015723.01.SNET016.01 Rev. 1	Date 09:45:49 02/11/15
	Client AT&T Tower	Designed by tclark

Description	Face or Leg	Offset Type	Offsets:		Azimuth Adjustment	Placement	C _{AA} Front	C _{AA} Side	Weight
			Horz	Lateral					
GPS-TMG-HR-26NCM	A	From Face	0.00	0.0000	74.00	2" Ice	1.15	0.89	45.73
						4" Ice	1.80	1.48	110.29
						No Ice	0.17	0.17	0.87
						1/2" Ice	0.24	0.24	3.85
						1" Ice	0.32	0.32	7.85
20' Mount Pipe	C	From Leg	0.00	0.0000	125.00	2" Ice	0.51	0.51	19.56
						4" Ice	1.02	1.02	62.07
						No Ice	5.00	5.00	40.00
						1/2" Ice	7.03	7.03	76.96
						1" Ice	9.07	9.07	126.55
4' Lightning Rod	C	From Leg	0.00	0.0000	125.00	2" Ice	13.22	13.22	264.21
						4" Ice	21.15	21.15	697.75
						No Ice	0.10	0.10	10.00
						1/2" Ice	0.51	0.51	11.87
						1" Ice	0.89	0.89	16.37
Catwalk	D	None	0.00	0.0000	75.00	2" Ice	1.41	1.41	33.83
						4" Ice	2.57	2.57	106.94
						No Ice	18.00	2.87	900.00
						1/2" Ice	22.50	3.58	1125.00
						1" Ice	27.00	4.30	1350.00
						2" Ice	36.00	5.73	1800.00
						4" Ice	54.00	8.60	2700.00



Company : GPD Group
 Designer : tclark
 Job Number : 2015723.01.SNET016.01 Rev. 1
 Model Name : SNET016 N. BRANFORD

Feb 11, 2015

Checked By: _____

Hot Rolled Steel Properties

	Label	E [ksi]	G [ksi]	Nu	Therm (1...Density[k/...	Yield[ksi]	Ry	Fu[ksi]	Rt	
1	A36	29000	11200	.295	.65	.49	36	1.5	58	1.2

Hot Rolled Steel Section Sets

	Label	Shape	Type	Design List	Material	Design ...	A [in2]	Iy [in4]	Izz [in4]	J [in4]
1	TWR LEG T1	L4x4x1/2	Column	Single Angle	A36	Typical	3.75	5.56	5.56	.322
2	TWR_TOP_GIRT_T1	L3x3x1/4	Beam	Single Angle	A36	Typical	1.44	1.24	1.24	.032
3	TWR LEG T2	L4x4x1/2	Column	Single Angle	A36	Typical	3.75	5.56	5.56	.322
4	TWR HORZ T2	C8x11.5	Beam	Channel	A36	Typical	3.37	1.31	32.5	.13
5	TWR DIAG T2	2L2 1/2x2x1/4x3/8	Column	None	A36	Typical	2.13	1.858	1.31	.044
6	TWR_RED_HORZ_T2	L2x2x3/16	Beam	Single Angle	A36	Typical	.715	.272	.272	.009
7	TWR_RED_DIAG_T2	L2x2x3/16	Column	Single Angle	A36	Typical	.715	.272	.272	.009
8	TWR_RED_HIP_T2	L2x2x3/16	Beam	Single Angle	A36	Typical	.715	.272	.272	.009
9	TWR_RED_HIPDIA_T2	L2 1/2x2x3/16	Column	Single Angle	A36	Typical	.809	.291	.509	.01
10	TWR_INNER_SUPP_T2	L2 1/2x2x3/16	Beam	Single Angle	A36	Typical	.809	.291	.509	.01
11	TWR_INNER_SQ_T2	L2 1/2x2x3/16	Beam	Single Angle	A36	Typical	.809	.291	.509	.01
12	TWR_INNER_CORNE...	L2 1/2x2x3/16	Beam	Single Angle	A36	Typical	.809	.291	.509	.01
13	TWR LEG T3	L4x4x1/2	Column	Single Angle	A36	Typical	3.75	5.56	5.56	.322
14	TWR HORZ T3	2L2 1/2x2x1/4x3/8	Beam	None	A36	Typical	2.13	1.858	1.31	.044
15	TWR DIAG T3	2L2 1/2x2x1/4x3/8	Column	None	A36	Typical	2.13	1.858	1.31	.044
16	TWR_RED_HORZ_T3	L2x2x3/16	Beam	Single Angle	A36	Typical	.715	.272	.272	.009
17	TWR_RED_DIAG_T3	L2x2x3/16	Column	Single Angle	A36	Typical	.715	.272	.272	.009
18	TWR_RED_DIAG_2_T3	L2x2x3/16	Column	Single Angle	A36	Typical	.715	.272	.272	.009
19	TWR_RED_HIP_T3	L2x2x3/16	Beam	Single Angle	A36	Typical	.715	.272	.272	.009
20	TWR_RED_HIPDIA_T3	L2 1/2x2x3/16	Column	Single Angle	A36	Typical	.809	.291	.509	.01
21	TWR_INNER_SUPP_T3	L2 1/2x2x3/16	Beam	Single Angle	A36	Typical	.809	.291	.509	.01
22	TWR_INNER_SQ_T3	L2 1/2x2x3/16	Beam	Single Angle	A36	Typical	.809	.291	.509	.01
23	TWR_INNER_CORNE...	L2 1/2x2x3/16	Beam	Single Angle	A36	Typical	.809	.291	.509	.01
24	TWR LEG T4	L5x5x1/2	Column	Single Angle	A36	Typical	4.75	11.3	11.3	.417
25	TWR HORZ T4	2L2 1/2x2x1/4x3/8	Beam	None	A36	Typical	2.13	1.858	1.31	.044
26	TWR DIAG T4	2L2 1/2x2x1/4x3/8	Column	None	A36	Typical	2.13	1.858	1.31	.044
27	TWR_RED_HORZ_T4	L2x2x3/16	Beam	Single Angle	A36	Typical	.715	.272	.272	.009
28	TWR_RED_DIAG_T4	L2x2x3/16	Column	Single Angle	A36	Typical	.715	.272	.272	.009
29	TWR_RED_VERT_T4	L2 1/2x2x3/16	Column	Single Angle	A36	Typical	.809	.291	.509	.01
30	TWR_RED_HIP_T4	L2x2x3/16	Beam	Single Angle	A36	Typical	.715	.272	.272	.009
31	TWR_RED_HIPDIA_T4	L2 1/2x2x3/16	Column	Single Angle	A36	Typical	.809	.291	.509	.01
32	TWR_INNER_SUPP_T4	L2 1/2x2x3/16	Beam	Single Angle	A36	Typical	.809	.291	.509	.01
33	TWR_INNER_SQ_T4	L2 1/2x2x3/16	Beam	Single Angle	A36	Typical	.809	.291	.509	.01
34	TWR_INNER_CORNE...	L2 1/2x2x3/16	Beam	Single Angle	A36	Typical	.809	.291	.509	.01
35	TWR LEG T5	L5x5x1/2	Column	Single Angle	A36	Typical	4.75	11.3	11.3	.417
36	TWR HORZ T5	2L2 1/2x2x1/4x3/8	Beam	None	A36	Typical	2.13	1.858	1.31	.044
37	TWR DIAG T5	2L2 1/2x2x1/4x3/8	Column	None	A36	Typical	2.13	1.858	1.31	.044
38	TWR_RED_HORZ_T5	L2x2x3/16	Beam	Single Angle	A36	Typical	.715	.272	.272	.009
39	TWR_RED_DIAG_T5	L2x2x3/16	Column	Single Angle	A36	Typical	.715	.272	.272	.009
40	TWR_RED_HIP_T5	L2x2x3/16	Beam	Single Angle	A36	Typical	.715	.272	.272	.009
41	TWR_RED_HIPDIA_T5	L2 1/2x2 1/2x3/16	Column	Single Angle	A36	Typical	.902	.547	.547	.011
42	TWR_INNER_SUPP_T5	L2 1/2x2x3/16	Beam	Single Angle	A36	Typical	.809	.291	.509	.01
43	TWR_INNER_SQ_T5	L2 1/2x2x3/16	Beam	Single Angle	A36	Typical	.809	.291	.509	.01
44	TWR_INNER_CORNE...	L2 1/2x2x3/16	Beam	Single Angle	A36	Typical	.809	.291	.509	.01
45	TWR LEG T6	L6x6x1/2	Column	Single Angle	A36	Typical	5.75	19.9	19.9	.501
46	TWR HORZ T6	2L2 1/2x2x1/4x3/8	Beam	None	A36	Typical	2.13	1.858	1.31	.044
47	TWR DIAG T6	2L2 1/2x3x1/4x3/8	Column	None	A36	Typical	2.63	5.508	1.49	.055
48	TWR_RED_HORZ_T6	L2 1/2x2x3/16	Beam	Single Angle	A36	Typical	.809	.291	.509	.01
49	TWR_RED_HORZ_2_T6	L2 1/2x2 1/2x1/4	Beam	Single Angle	A36	Typical	1.19	.692	.692	.026
50	TWR_RED_DIAG_T6	L2 1/2x2x3/16	Column	Single Angle	A36	Typical	.809	.291	.509	.01



Company : GPD Group
 Designer : tclark
 Job Number : 2015723.01.SNET016.01 Rev. 1
 Model Name : SNET016 N. BRANFORD

Feb 11, 2015

Checked By: _____

Hot Rolled Steel Section Sets (Continued)

	Label	Shape	Type	Design List	Material	Design ...	A [in2]	Iyy [in4]	Izz [in4]	J [in4]
51	TWR_RED_HORZ_3_T6	L2 1/2x2 1/2x3/16	Beam	Single Angle	A36	Typical	.902	.547	.547	.011
52	TWR_RED_DIAG_2_T6	L2 1/2x2 1/2x1/4	Column	Single Angle	A36	Typical	1.19	.692	.692	.026
53	TWR_RED_DIAG_3_T6	L2 1/2x2 1/2x3/16	Column	Single Angle	A36	Typical	.902	.547	.547	.011
54	TWR_RED_VERT_T6	L2 1/2x2x3/16	Column	Single Angle	A36	Typical	.809	.291	.509	.01
55	TWR_RED_HIP_T6	L1x1x1/8	Beam	Single Angle	A36	Typical	.234	.022	.022	.001
56	TWR_RED_HIP_2_T6	L1x1x1/8	Beam	Single Angle	A36	Typical	.234	.022	.022	.001
57	TWR_RED_HIPDIA_T6	L2 1/2x2 1/2x3/16	Column	Single Angle	A36	Typical	.902	.547	.547	.011
58	TWR_RED_HIP_3_T6	L3x3x3/16	Beam	Single Angle	A36	Typical	1.09	.96	.96	.014
59	TWR_INNER_SUPP_T6	L2 1/2x2x3/16	Beam	Single Angle	A36	Typical	.809	.291	.509	.01
60	TWR_INNER_SQ_T6	L2 1/2x2x3/16	Beam	Single Angle	A36	Typical	.809	.291	.509	.01
61	TWR_INNER_CORNE...	L2 1/2x2x3/16	Beam	Single Angle	A36	Typical	.809	.291	.509	.01
62	TWR_LEG_T7	L6x6x1/2	Column	Single Angle	A36	Typical	5.75	19.9	19.9	.501
63	TWR_HORZ_T7	2L2 1/2x2x1/4x3/8	Beam	None	A36	Typical	2.13	1.858	1.31	.044
64	TWR_DIAG_T7	2L2 1/2x3x5/16x3/8	Column	None	A36	Typical	3.242	6.918	1.796	.106
65	TWR_RED_HORZ_T7	L2x2x3/16	Beam	Single Angle	A36	Typical	.715	.272	.272	.009
66	TWR_RED_HORZ_2_T7	L2 1/2x2 1/2x3/16	Beam	Single Angle	A36	Typical	.902	.547	.547	.011
67	TWR_RED_DIAG_T7	L2x2x3/16	Column	Single Angle	A36	Typical	.715	.272	.272	.009
68	TWR_RED_HORZ_3_T7	L2 1/2x2x3/16	Beam	Single Angle	A36	Typical	.809	.291	.509	.01
69	TWR_RED_DIAG_2_T7	L2 1/2x2 1/2x3/16	Column	Single Angle	A36	Typical	.902	.547	.547	.011
70	TWR_RED_DIAG_3_T7	L3x3x3/16	Column	Single Angle	A36	Typical	1.09	.96	.96	.014
71	TWR_RED_VERT_T7	L2x2 1/2x3/16	Column	Single Angle	A36	Typical	.809	.509	.291	.01
72	TWR_RED_HIP_T7	L1x1x1/8	Beam	Single Angle	A36	Typical	.234	.022	.022	.001
73	TWR_RED_HIP_2_T7	L1x1x1/8	Beam	Single Angle	A36	Typical	.234	.022	.022	.001
74	TWR_RED_HIPDIA_T7	L2 1/2x2x3/16	Column	Single Angle	A36	Typical	.809	.291	.509	.01
75	TWR_RED_HIP_3_T7	L2 1/2x2x3/16	Beam	Single Angle	A36	Typical	.809	.291	.509	.01
76	TWR_INNER_SUPP_T7	L3x3x3/16	Beam	Single Angle	A36	Typical	1.09	.96	.96	.014
77	TWR_INNER_SQ_T7	L3x3x3/16	Beam	Single Angle	A36	Typical	1.09	.96	.96	.014
78	TWR_INNER_CORNE...	L3x3x3/16	Beam	Single Angle	A36	Typical	1.09	.96	.96	.014
79	TWR_LEG_T8	L6x6x1/2	Column	Single Angle	A36	Typical	5.75	19.9	19.9	.501
80	TWR_HORZ_T8	2L2 1/2x2x1/4x3/8	Beam	None	A36	Typical	2.13	1.858	1.31	.044
81	TWR_DIAG_T8	2L2 1/2x3x5/16x3/8	Column	None	A36	Typical	3.242	6.918	1.796	.106
82	TWR_RED_HORZ_T8	L2 1/2x2x3/16	Beam	Single Angle	A36	Typical	.809	.291	.509	.01
83	TWR_RED_HORZ_2_T8	L2 1/2x2 1/2x3/16	Beam	Single Angle	A36	Typical	.902	.547	.547	.011
84	TWR_RED_DIAG_T8	L2 1/2x2x3/16	Column	Single Angle	A36	Typical	.809	.291	.509	.01
85	TWR_RED_HORZ_3_T8	L2 1/2x2 1/2x3/16	Beam	Single Angle	A36	Typical	.902	.547	.547	.011
86	TWR_RED_DIAG_2_T8	L2 1/2x2 1/2x3/16	Column	Single Angle	A36	Typical	.902	.547	.547	.011
87	TWR_RED_DIAG_3_T8	L3x3x3/16	Column	Single Angle	A36	Typical	1.09	.96	.96	.014
88	TWR_RED_VERT_T8	L2x2x3/16	Column	Single Angle	A36	Typical	.715	.272	.272	.009
89	TWR_RED_HIP_T8	2L1 1/2x1 1/2x1/8	Beam	None	A36	Typical	.719	.283	.156	.004
90	TWR_RED_HIP_2_T8	2L1 1/2x1 1/2x1/8	Beam	None	A36	Typical	.719	.283	.156	.004
91	TWR_RED_HIPDIA_T8	2L2 1/2x2x3/16x3/8	Column	None	A36	Typical	1.62	1.378	1.02	.019
92	TWR_RED_HIP_3_T8	2L2 1/2x2x3/16x3/8	Beam	None	A36	Typical	1.62	1.378	1.02	.019
93	TWR_INNER_SUPP_T8	2L2 1/2x2 1/2x3/16x...	Beam	None	A36	Typical	1.8	2.499	1.09	.021
94	TWR_INNER_SQ_T8	2L2 1/2x2x3/16x3/8	Beam	None	A36	Typical	1.62	1.378	1.02	.019
95	TWR_INNER_CORNE...	L2 1/2x2 1/2x3/16	Beam	None	A36	Typical	.902	.547	.547	.011

General Section Sets

	Label	Shape	Type	Material	A [in2]	Iyy [in4]	Izz [in4]	J [in4]
1	GEN1	RE4X4	Beam	gen Con...	16	21.333	21.333	31.573



Company : GPD Group
 Designer : tclark
 Job Number : 2015723.01.SNET016.01 Rev. 1
 Model Name : SNET016 N. BRANFORD

Feb 11, 2015

Checked By: _____

Basic Load Cases

	BLC Description	Category	X Grav...	Y Gra...	Z Gra...	Joint	Point	Distribut...	Area(Memb...	Surface(Plate/Wall)
1	Dead	None		-1		36	114	32		
2	No Ice Wind 0 deg	None				36	284	96		
3	No Ice Wind 45 deg	None				72	268	128		
4	No Ice Wind 90 deg	None				36	280	88		
5	No Ice Wind 135 deg	None				72	276	128		
6	No Ice Wind 180 deg	None				36	284	96		
7	No Ice Wind 225 deg	None				72	268	128		
8	No Ice Wind 270 deg	None				36	280	88		
9	No Ice Wind 315 deg	None				72	276	128		
10	Ice	None				36	114	499		
11	Temperature Drop	None						579		
12	Ice Wind 0 deg	None				36	284	88		
13	Ice Wind 45 deg	None				72	256	120		
14	Ice Wind 90 deg	None				36	280	88		
15	Ice Wind 135 deg	None				72	264	120		
16	Ice Wind 180 deg	None				36	284	88		
17	Ice Wind 225 deg	None				72	256	120		
18	Ice Wind 270 deg	None				36	280	88		
19	Ice Wind 315 deg	None				72	264	120		
20	Service Wind 0 deg	None				36	284	88		
21	Service Wind 45 deg	None				72	264	128		
22	Service Wind 90 deg	None				36	278	88		
23	Service Wind 135 deg	None				72	268	128		
24	Service Wind 180 deg	None				36	284	88		
25	Service Wind 225 deg	None				72	264	128		
26	Service Wind 270 deg	None				36	278	88		
27	Service Wind 315 deg	None				72	268	128		

Load Combinations

	Description	Solve PD...	SRSS	BLC	Fac...	BLC Fac...	BLC Fac...	BLC Fac...	BLC Fac...	BLC Fac...	BLC Fac...	BLC Fac...	BLC Fac...	BLC Fac...
1	Dead Only	Yes		1	1	28	1	29	1	0		0		0
2	Dead+Wind 0 deg - No Ice	Yes		1	1	2	1	28	1	29	1	0		0
3	Dead+Wind 45 deg - No Ice	Yes		1	1	3	1	28	1	29	1	0		0
4	Dead+Wind 90 deg - No Ice	Yes		1	1	4	1	28	1	29	1	0		0
5	Dead+Wind 135 deg - No Ice	Yes		1	1	5	1	28	1	29	1	0		0
6	Dead+Wind 180 deg - No Ice	Yes		1	1	6	1	28	1	29	1	0		0
7	Dead+Wind 225 deg - No Ice	Yes		1	1	7	1	28	1	29	1	0		0
8	Dead+Wind 270 deg - No Ice	Yes		1	1	8	1	28	1	29	1	0		0
9	Dead+Wind 315 deg - No Ice	Yes		1	1	9	1	28	1	29	1	0		0
10	Dead+Ice+Temp	Yes		1	1	10	1	11	1	28	1	29	1	0
11	Dead+Wind 0 deg+Ice+Temp	Yes		1	1	12	1	10	1	11	1	28	1	29
12	Dead+Wind 45 deg+Ice+Temp	Yes		1	1	13	1	10	1	11	1	28	1	29
13	Dead+Wind 90 deg+Ice+Temp	Yes		1	1	14	1	10	1	11	1	28	1	29
14	Dead+Wind 135 deg+Ice+Temp	Yes		1	1	15	1	10	1	11	1	28	1	29
15	Dead+Wind 180 deg+Ice+Temp	Yes		1	1	16	1	10	1	11	1	28	1	29
16	Dead+Wind 225 deg+Ice+Temp	Yes		1	1	17	1	10	1	11	1	28	1	29
17	Dead+Wind 270 deg+Ice+Temp	Yes		1	1	18	1	10	1	11	1	28	1	29
18	Dead+Wind 315 deg+Ice+Temp	Yes		1	1	19	1	10	1	11	1	28	1	29
19	Dead+Wind 0 deg - Service	Yes		1	1	20	1	28	1	29	1	0		0
20	Dead+Wind 45 deg - Service	Yes		1	1	21	1	28	1	29	1	0		0
21	Dead+Wind 90 deg - Service	Yes		1	1	22	1	28	1	29	1	0		0
22	Dead+Wind 135 deg - Service	Yes		1	1	23	1	28	1	29	1	0		0
23	Dead+Wind 180 deg - Service	Yes		1	1	24	1	28	1	29	1	0		0
24	Dead+Wind 225 deg - Service	Yes		1	1	25	1	28	1	29	1	0		0
25	Dead+Wind 270 deg - Service	Yes		1	1	26	1	28	1	29	1	0		0



Company : GPD Group
 Designer : tclark
 Job Number : 2015723.01.SNET016.01 Rev. 1
 Model Name : SNET016 N. BRANFORD

Feb 11, 2015

Checked By: _____

Load Combinations (Continued)

	Description	Solve PD...	SRSS	BLC	Fac.	BLC Fac.	BLC Fac.	BLC Fac.	BLC Fac.	BLC Fac.	BLC Fac.	BLC Fac.	BLC Fac.	BLC Fac.
26	Dead+Wind 315 deg - Service	Yes		1	1	27	1	28	1	29	1	0	0	0

Envelope Joint Reactions

Joint		X [k]	LC	Y [k]	LC	Z [k]	LC	MX [k-ft]	LC	MY [k-ft]	LC	MZ [k-ft]	LC	
1	N177	max	9.542	7	75.667	7	7.64	3	0	1	0	6	0	1
2		min	-8.059	3	-55.522	3	-9.068	7	0	1	0	3	0	1
3	N178	max	7.989	9	75.519	5	7.733	9	0	1	0	5	0	1
4		min	-9.472	5	-55.843	9	-9.142	5	0	1	0	9	0	1
5	N179	max	7.706	7	74.262	3	9.477	3	0	1	0	9	0	1
6		min	-9.058	3	-56.928	7	-8.068	7	0	1	0	5	0	1
7	N180	max	9.142	9	74.583	9	9.415	9	0	1	0	7	0	1
8		min	-7.79	5	-56.78	5	-7.988	5	0	1	0	3	0	1
9	Totals:	max	33.08	8	67.075	18	32.779	2						
10		min	-33.08	4	37.478	7	-32.779	6						

Envelope AISC 13th(360-05): ASD Steel Code Checks

Member	Shape	Code Check	Loc[ft]	LC	Shear C...	Loc[ft]	Dir	LC	Pnc/o...	Pnt/om...	Mnyy/om [k-ft]	Mnzz/o...	Cb	Eqn	
1	M14	2L2 1/2x2x1/4x3/8	.061	6.837	8	.001	6.837	y	18	25.399	45.916	2.441	1.372	1	H1-...
2	M17	2L2 1/2x2x1/4x3/8	.059	6.837	4	.001	6.837	y	13	25.399	45.916	2.441	1.372	1	H1-...
3	M21	2L2 1/2x2x1/4x3/8	.073	6.837	6	.001	6.837	y	16	25.399	45.916	2.441	1.372	1	H1-...
4	M24	2L2 1/2x2x1/4x3/8	.073	6.837	2	.001	6.837	y	11	25.399	45.916	2.441	1.372	1	H1-...
5	M30	2L2 1/2x2x1/4x3/8	.067	6.837	4	.001	6.837	y	14	25.399	45.916	2.441	1.372	1	H1-...
6	M33	2L2 1/2x2x1/4x3/8	.068	6.837	8	.001	6.837	y	17	25.399	45.916	2.441	1.372	1	H1-...
7	M39	2L2 1/2x2x1/4x3/8	.056	6.837	2	.001	6.837	y	12	25.399	45.916	2.441	1.372	1	H1-...
8	M42	2L2 1/2x2x1/4x3/8	.056	6.837	6	.001	6.837	y	15	25.399	45.916	2.441	1.372	1	H1-...
9	M59	2L2 1/2x2x1/4x3/8	.082	7.002	8	.002	7.002	y	11	24.945	45.916	2.441	1.372	1	H1-...
10	M62	2L2 1/2x2x1/4x3/8	.081	7.002	4	.002	7.002	y	12	24.945	45.916	2.441	1.372	1	H1-...
11	M66	2L2 1/2x2x1/4x3/8	.093	7.002	6	.002	7.002	y	11	24.945	45.916	2.441	1.372	1	H1-...
12	M69	2L2 1/2x2x1/4x3/8	.093	7.002	2	.002	7.002	y	18	24.945	45.916	2.441	1.372	1	H1-...
13	M75	2L2 1/2x2x1/4x3/8	.086	7.002	4	.002	7.002	y	14	24.945	45.916	2.441	1.372	1	H1-...
14	M78	2L2 1/2x2x1/4x3/8	.088	7.002	8	.002	7.002	y	16	24.945	45.916	2.441	1.372	1	H1-...
15	M84	2L2 1/2x2x1/4x3/8	.076	7.002	2	.002	7.002	y	12	24.945	45.916	2.441	1.372	1	H1-...
16	M87	2L2 1/2x2x1/4x3/8	.076	7.002	6	.002	7.002	y	14	24.945	45.916	2.441	1.372	1	H1-...
17	M104	2L2 1/2x2x1/4x3/8	.223	7.185	8	.002	7.185	y	18	24.463	45.916	2.441	1.372	1	H1-...
18	M107	2L2 1/2x2x1/4x3/8	.220	7.185	4	.002	7.185	y	12	24.463	45.916	2.441	1.372	1	H1-...
19	M111	2L2 1/2x2x1/4x3/8	.230	7.185	6	.002	7.185	y	16	24.463	45.916	2.441	1.372	1	H1-...
20	M114	2L2 1/2x2x1/4x3/8	.232	7.185	2	.002	7.185	y	18	24.463	45.916	2.441	1.372	1	H1-...
21	M120	2L2 1/2x2x1/4x3/8	.116	7.185	4	.002	7.185	y	15	24.463	45.916	2.441	1.372	1	H1-...
22	M123	2L2 1/2x2x1/4x3/8	.118	7.185	8	.002	7.185	y	16	24.463	45.916	2.441	1.372	1	H1-...
23	M129	2L2 1/2x2x1/4x3/8	.105	7.185	2	.002	7.185	y	13	24.463	45.916	2.441	1.372	1	H1-...
24	M132	2L2 1/2x2x1/4x3/8	.104	7.185	6	.002	7.185	y	13	24.463	45.916	2.441	1.372	1	H1-...
25	M149	2L2 1/2x2x1/4x3/8	.245	7.384	8	.002	7.384	y	11	23.915	45.916	2.441	1.372	1	H1-...
26	M152	2L2 1/2x2x1/4x3/8	.243	7.384	4	.002	7.384	y	11	23.915	45.916	2.441	1.372	1	H1-...
27	M156	2L2 1/2x2x1/4x3/8	.249	7.384	6	.002	7.384	y	17	23.915	45.916	2.441	1.372	1	H1-...
28	M159	2L2 1/2x2x1/4x3/8	.251	7.384	2	.002	7.384	y	17	23.915	45.916	2.441	1.372	1	H1-...
29	M165	2L2 1/2x2x1/4x3/8	.228	7.384	4	.002	7.384	y	15	23.915	45.916	2.441	1.372	1	H1-...
30	M168	2L2 1/2x2x1/4x3/8	.230	7.384	8	.002	7.384	y	15	23.915	45.916	2.441	1.372	1	H1-...
31	M174	2L2 1/2x2x1/4x3/8	.118	7.384	2	.002	7.384	y	14	23.915	45.916	2.441	1.372	1	H1-...
32	M177	2L2 1/2x2x1/4x3/8	.117	7.384	6	.002	7.384	y	13	23.915	45.916	2.441	1.372	1	H1-...
33	M194	2L2 1/2x3x1/4x3/8	.659	13.3...	8	.003	20.061	y	14	16.166	56.695	4.967	1.454	1	H1-...
34	M201	2L2 1/2x3x1/4x3/8	.656	13.3...	4	.003	20.061	y	16	16.166	56.695	4.967	1.454	1	H1-...
35	M209	2L2 1/2x3x1/4x3/8	.647	13.3...	6	.003	20.061	y	12	16.166	56.695	4.967	1.454	1	H1-...
36	M216	2L2 1/2x3x1/4x3/8	.655	13.3...	2	.003	20.061	y	14	16.166	56.695	4.967	1.454	1	H1-...
37	M230	2L2 1/2x3x1/4x3/8	.603	13.3...	4	.003	20.061	y	18	16.166	56.695	4.967	1.454	1	H1-...



Company : GPD Group
 Designer : tclark
 Job Number : 2015723.01.SNET016.01 Rev. 1
 Model Name : SNET016 N. BRANFORD

Feb 11, 2015

Checked By: _____

Envelope AISC 13th(360-05): ASD Steel Code Checks (Continued)

Member	Shape	Code Check	Loc(ft)	LC	Shear C...	Loc(ft)	Dir	LC	Pnc/o...	Pnt/om...	Mny/om [k-ft]	Mnzz/o...	Cb	Eqn	
38	M237	2L2 1/2x3x1/4x3/8	.606	13.3...	8	.003	20.061	y	12	16.166	56.695	4.967	1.454	1	H1-...
39	M251	2L2 1/2x3x1/4x3/8	.593	13.3...	2	.003	20.061	y	15	16.166	56.695	4.967	1.454	1	H1-...
40	M258	2L2 1/2x3x1/4x3/8	.585	13.3...	6	.003	20.061	y	18	16.166	56.695	4.967	1.454	1	H1-...
41	M287	2L2 1/2x3x5/16x3/8	.615	13.6...	8	.003	20.5	y	12	19.561	69.891	6.238	1.776	1	H1-...
42	M294	2L2 1/2x3x5/16x3/8	.615	13.6...	4	.003	20.5	y	18	19.561	69.891	6.238	1.776	1	H1-...
43	M302	2L2 1/2x3x5/16x3/8	.593	13.6...	6	.003	20.5	y	18	19.561	69.891	6.238	1.776	1	H1-...
44	M309	2L2 1/2x3x5/16x3/8	.601	13.6...	2	.003	20.5	y	16	19.561	69.891	6.238	1.776	1	H1-...
45	M323	2L2 1/2x3x5/16x3/8	.563	13.6...	4	.003	20.5	y	16	19.561	69.891	6.238	1.776	1	H1-...
46	M330	2L2 1/2x3x5/16x3/8	.563	13.6...	8	.003	20.5	y	14	19.561	69.891	6.238	1.776	1	H1-...
47	M344	2L2 1/2x3x5/16x3/8	.572	13.6...	2	.003	20.5	y	14	19.561	69.891	6.238	1.776	1	H1-...
48	M351	2L2 1/2x3x5/16x3/8	.564	4.556	6	.003	20.5	y	12	19.561	69.891	6.238	2.841	1	H1-...
49	M380	2L2 1/2x3x5/16x3/8	.695	4.957	8	.004	20.996	y	12	19.015	69.891	6.238	2.841	1	H1-...
50	M387	2L2 1/2x3x5/16x3/8	.696	4.957	4	.004	20.996	y	18	19.015	69.891	6.238	2.841	1	H1-...
51	M395	2L2 1/2x3x5/16x3/8	.665	4.957	6	.004	20.996	y	18	19.015	69.891	6.238	2.841	1	H1-...
52	M402	2L2 1/2x3x5/16x3/8	.674	4.666	2	.004	20.996	y	16	19.015	69.891	6.238	2.841	1	H1-...
53	M416	2L2 1/2x3x5/16x3/8	.640	4.666	4	.004	20.996	y	16	19.015	69.891	6.238	2.841	1	H1-...
54	M423	2L2 1/2x3x5/16x3/8	.638	4.666	8	.004	20.996	y	14	19.015	69.891	6.238	2.841	1	H1-...
55	M437	2L2 1/2x3x5/16x3/8	.658	4.666	2	.004	20.996	y	14	19.015	69.891	6.238	2.841	1	H1-...
56	M444	2L2 1/2x3x5/16x3/8	.650	4.957	6	.004	20.996	y	12	19.015	69.891	6.238	2.841	1	H1-...
57	M13	C8x11.5	.015	4.708	8	.002	4.708	y	14	48.601	72.647	2.231	15.543	1	H1-...
58	M20	C8x11.5	.018	4.708	6	.003	4.708	y	12	48.601	72.647	2.231	15.543	1	H1-...
59	M29	C8x11.5	.017	4.708	8	.003	4.708	y	18	48.601	72.647	2.231	15.543	1	H1-...
60	M38	C8x11.5	.013	4.708	6	.002	9.415	y	12	48.601	72.647	2.231	15.543	1	H1-...
61	M58	2L2 1/2x2x1/4x3/8	.048	5.487	7	.003	5.487	y	15	29.357	45.916	2.441	1.372	1	H1-...
62	M65	2L2 1/2x2x1/4x3/8	.051	5.487	6	.003	5.487	y	13	29.357	45.916	2.441	1.372	1	H1-...
63	M74	2L2 1/2x2x1/4x3/8	.049	5.487	9	.003	5.487	y	11	29.357	45.916	2.441	1.372	1	H1-...
64	M83	2L2 1/2x2x1/4x3/8	.044	5.487	2	.003	5.487	y	17	29.357	45.916	2.441	1.372	1	H1-...
65	M103	2L2 1/2x2x1/4x3/8	.056	6.266	7	.002	9.399	y	13	27.333	45.916	2.441	1.372	1	H1-...
66	M110	2L2 1/2x2x1/4x3/8	.056	2.872	2	.002	6.266	y	3	27.333	45.916	2.441	2.195	1	H1-...
67	M119	2L2 1/2x2x1/4x3/8	.054	6.266	9	.002	9.399	y	17	27.333	45.916	2.441	1.372	1	H1-...
68	M128	2L2 1/2x2x1/4x3/8	.048	6.266	9	.002	9.399	y	15	27.333	45.916	2.441	1.372	1	H1-...
69	M148	2L2 1/2x2x1/4x3/8	.092	7.045	7	.004	7.045	y	15	25.399	45.916	2.441	1.372	1	H1-...
70	M155	2L2 1/2x2x1/4x3/8	.094	7.045	2	.004	7.045	y	13	25.399	45.916	2.441	1.372	1	H1-...
71	M164	2L2 1/2x2x1/4x3/8	.088	7.045	9	.004	7.045	y	11	25.399	45.916	2.441	1.372	1	H1-...
72	M173	2L2 1/2x2x1/4x3/8	.084	7.045	9	.004	7.045	y	17	25.399	45.916	2.441	1.372	1	H1-...
73	M193	2L2 1/2x2x1/4x3/8	.117	7.825	7	.003	7.825	y	5	23.266	45.916	2.441	1.372	1	H1-...
74	M208	2L2 1/2x2x1/4x3/8	.116	7.825	3	.003	7.825	y	3	23.266	45.916	2.441	1.372	1	H1-...
75	M229	2L2 1/2x2x1/4x3/8	.109	7.825	9	.002	7.825	y	9	23.266	45.916	2.441	1.372	1	H1-...
76	M250	2L2 1/2x2x1/4x3/8	.109	7.825	9	.002	7.825	y	7	23.266	45.916	2.441	1.372	1	H1-...
77	M286	2L2 1/2x2x1/4x3/8	.270	9.383	8	.003	9.383	y	6	18.702	45.916	2.441	1.372	1	H1-...
78	M301	2L2 1/2x2x1/4x3/8	.268	9.383	3	.003	9.383	y	4	18.702	45.916	2.441	1.372	1	H1-...
79	M322	2L2 1/2x2x1/4x3/8	.247	9.383	8	.002	9.383	y	2	18.702	45.916	2.441	1.372	1	H1-...
80	M343	2L2 1/2x2x1/4x3/8	.259	9.383	9	.003	9.383	y	8	18.702	45.916	2.441	1.372	1	H1-...
81	M379	2L2 1/2x2x1/4x3/8	.405	10.9...	4	.003	16.412	y	12	14.52	45.916	2.441	1.372	1	H1-...
82	M394	2L2 1/2x2x1/4x3/8	.391	10.9...	2	.003	16.412	y	18	14.52	45.916	2.441	1.372	1	H1-...
83	M415	2L2 1/2x2x1/4x3/8	.370	10.9...	4	.003	16.412	y	16	14.52	45.916	2.441	1.372	1	H1-...
84	M436	2L2 1/2x2x1/4x3/8	.382	10.9...	9	.003	16.412	y	14	14.52	45.916	2.441	1.372	1	H1-...
85	M572	L2 1/2x2x3/16	.005	0	7	.002	3.329	y	9	10.899	17.44	.176	.962	1.1...	H2-1
86	M573	L2 1/2x2x3/16	.005	0	9	.002	3.329	y	7	10.899	17.44	.176	.962	1.1...	H2-1
87	M574	L2 1/2x2x3/16	.004	0	3	.002	3.329	y	9	10.899	17.44	.176	.962	1.1...	H2-1
88	M575	L2 1/2x2x3/16	.004	0	5	.002	3.329	y	7	10.899	17.44	.176	.962	1.1...	H2-1
89	M552	L2 1/2x2x3/16	.012	0	7	.002	3.88	y	5	9.266	17.44	.176	.929	1.1...	H2-1
90	M553	L2 1/2x2x3/16	.012	0	5	.002	3.88	y	3	9.266	17.44	.176	.929	1.1...	H2-1
91	M554	L2 1/2x2x3/16	.012	0	9	.002	3.88	y	3	9.266	17.44	.176	.929	1.1...	H2-1
92	M555	L2 1/2x2x3/16	.012	0	3	.002	3.88	y	5	9.266	17.44	.176	.929	1.1...	H2-1
93	M532	L2 1/2x2x3/16	.017	0	7	.002	0	y	5	7.684	17.44	.176	.899	1.1...	H2-1
94	M533	L2 1/2x2x3/16	.017	0	9	.002	0	y	3	7.684	17.44	.176	.899	1.1...	H2-1



Company : GPD Group
 Designer : tclark
 Job Number : 2015723.01.SNET016.01 Rev. 1
 Model Name : SNET016 N. BRANFORD

Feb 11, 2015

Checked By: _____

Envelope AISC 13th(360-05): ASD Steel Code Checks (Continued)

Member	Shape	Code Check	Loc[ft]	LC	Shear C...	Loc[ft]	Dir	LC	Pnc/o...	Pnt/om...	Mnyy/om [k-ft]	Mnzz/o...	Cb	Eqn
95	M534	L2 1/2x2x3/16	.017	0	3	.002	0	y	5	7.684	17.44	.176	.899	1.1...H2-1
96	M535	L2 1/2x2x3/16	.017	0	5	.002	0	y	7	7.684	17.44	.176	.899	1.1...H2-1
97	M520	L2 1/2x2x3/16	.022	0	7	.002	0	y	5	6.204	17.44	.176	.87	1.1...H2-1
98	M521	L2 1/2x2x3/16	.022	0	3	.002	0	y	5	6.204	17.44	.176	.87	1.1...H2-1
99	M522	L2 1/2x2x3/16	.022	0	5	.002	0	y	7	6.204	17.44	.176	.87	1.1...H2-1
100	M523	L2 1/2x2x3/16	.022	0	9	.002	0	y	7	6.204	17.44	.176	.87	1.1...H2-1
101	M504	L2 1/2x2x3/16	.027	0	9	.002	0	y	7	5.03	17.44	.176	.844	1.1...H2-1
102	M505	L2 1/2x2x3/16	.026	0	7	.002	0	y	5	5.03	17.44	.176	.844	1.1...H2-1
103	M506	L2 1/2x2x3/16	.026	0	5	.002	0	y	7	5.03	17.44	.176	.844	1.1...H2-1
104	M507	L2 1/2x2x3/16	.027	0	3	.002	0	y	5	5.03	17.44	.176	.844	1.1...H2-1
105	M488	L3x3x3/16	.032	0	9	.003	6.635	y	7	9.097	23.497	.339	1.494	1.1...H2-1
106	M489	L3x3x3/16	.032	0	3	.003	0	y	9	9.097	23.497	.339	1.494	1.1...H2-1
107	M490	L3x3x3/16	.031	0	5	.003	6.635	y	7	9.097	23.497	.339	1.494	1.1...H2-1
108	M491	L3x3x3/16	.031	0	7	.003	0	y	9	9.097	23.497	.339	1.494	1.1...H2-1
109	M472	L2 1/2x2 1/2x3/16	.049	0	5	.003	7.737	y	7	3.854	19.444	.233	.973	1.1...H2-1
110	M473	L2 1/2x2 1/2x3/16	.049	0	7	.003	7.737	y	9	3.854	19.444	.233	.973	1.1...H2-1
111	M474	L2 1/2x2 1/2x3/16	.050	0	3	.003	0	y	5	3.854	19.444	.233	.973	1.1...H2-1
112	M475	L2 1/2x2 1/2x3/16	.050	0	9	.003	7.737	y	7	3.854	19.444	.233	.973	1.1...H2-1
113	M568	L2 1/2x2x3/16	.005	0	2	.002	0	y	3	6.929	17.44	.176	.853	1 H2-1
114	M569	L2 1/2x2x3/16	.005	0	4	.002	0	y	5	6.929	17.44	.176	.853	1 H2-1
115	M570	L2 1/2x2x3/16	.005	0	6	.002	0	y	3	6.929	17.44	.176	.853	1 H2-1
116	M571	L2 1/2x2x3/16	.005	0	8	.002	0	y	5	6.929	17.44	.176	.853	1 H2-1
117	M548	L2 1/2x2x3/16	.015	0	2	.002	5.487	y	4	5.114	17.44	.176	.812	1 H2-1
118	M549	L2 1/2x2x3/16	.015	0	4	.002	5.487	y	6	5.114	17.44	.176	.812	1 H2-1
119	M550	L2 1/2x2x3/16	.015	0	6	.002	5.487	y	4	5.114	17.44	.176	.812	1 H2-1
120	M551	L2 1/2x2x3/16	.015	0	8	.002	5.487	y	6	5.114	17.44	.176	.812	1 H2-1
121	M528	L2 1/2x2x3/16	.027	0	2	.002	6.266	y	9	3.921	17.44	.176	.774	1 H2-1
122	M529	L2 1/2x2x3/16	.027	0	4	.002	6.266	y	4	3.921	17.44	.176	.774	1 H2-1
123	M530	L2 1/2x2x3/16	.027	0	6	.002	6.266	y	9	3.921	17.44	.176	.774	1 H2-1
124	M531	L2 1/2x2x3/16	.027	0	8	.002	6.266	y	4	3.921	17.44	.176	.774	1 H2-1
125	M516	L2 1/2x2x3/16	.044	0	2	.002	7.045	y	4	3.102	17.44	.176	.738	1 H2-1
126	M517	L2 1/2x2x3/16	.045	0	4	.002	7.045	y	6	3.102	17.44	.176	.738	1 H2-1
127	M518	L2 1/2x2x3/16	.044	0	6	.002	7.045	y	4	3.102	17.44	.176	.738	1 H2-1
128	M519	L2 1/2x2x3/16	.045	0	8	.002	7.045	y	6	3.102	17.44	.176	.738	1 H2-1
129	M500	L2 1/2x2x3/16	.062	0	2	.002	0	y	8	2.515	17.44	.176	.704	1 H2-1
130	M501	L2 1/2x2x3/16	.063	0	4	.002	0	y	6	2.515	17.44	.176	.704	1 H2-1
131	M502	L2 1/2x2x3/16	.061	0	6	.002	0	y	8	2.515	17.44	.176	.704	1 H2-1
132	M503	L2 1/2x2x3/16	.063	0	8	.002	0	y	6	2.515	17.44	.176	.704	1 H2-1
133	M484	L3x3x3/16	.054	0	6	.003	0	y	4	4.59	23.497	.339	1.227	1 H2-1
134	M485	L3x3x3/16	.055	0	8	.003	0	y	6	4.59	23.497	.339	1.227	1 H2-1
135	M486	L3x3x3/16	.055	0	2	.003	0	y	4	4.59	23.497	.339	1.227	1 H2-1
136	M487	L3x3x3/16	.055	0	4	.003	0	y	6	4.59	23.497	.339	1.227	1 H2-1
137	M468	2L2 1/2x2x3/16x3/8	.069	5.471	8	.003	0	y	6	8.893	34.922	1.811	1.688	1 H1-...
138	M469	2L2 1/2x2x3/16x3/8	.069	5.471	6	.003	0	y	4	8.893	34.922	1.811	1.688	1 H1-...
139	M470	2L2 1/2x2x3/16x3/8	.069	5.471	4	.003	0	y	6	8.893	34.922	1.811	1.688	1 H1-...
140	M471	2L2 1/2x2x3/16x3/8	.069	5.471	2	.003	0	y	4	8.893	34.922	1.811	1.688	1 H1-...
141	M49	L2 1/2x2x3/16	.012	0	8	.003	3.329	z	16	3.474	17.44	.176	.936	1 H2-1
142	M50	L2 1/2x2x3/16	.012	0	6	.003	3.329	z	14	3.474	17.44	.176	.936	1 H2-1
143	M51	L2 1/2x2x3/16	.012	6.658	6	.003	3.329	z	16	3.474	17.44	.176	.936	1 H2-1
144	M52	L2 1/2x2x3/16	.012	6.658	4	.003	3.329	z	14	3.474	17.44	.176	.936	1 H2-1
145	M94	L2 1/2x2x3/16	.037	0	8	.003	3.88	z	15	2.557	17.44	.176	.901	1 H2-1
146	M95	L2 1/2x2x3/16	.037	7.76	8	.003	3.88	z	13	2.557	17.44	.176	.901	1 H2-1
147	M96	L2 1/2x2x3/16	.037	7.76	6	.003	3.88	z	11	2.557	17.44	.176	.901	1 H2-1
148	M97	L2 1/2x2x3/16	.037	0	2	.003	3.88	z	17	2.557	17.44	.176	.901	1 H2-1
149	M139	L2 1/2x2x3/16	.069	0	8	.003	4.431	z	16	1.961	17.44	.176	.869	1 H2-1
150	M140	L2 1/2x2x3/16	.069	8.862	8	.003	4.431	z	18	1.961	17.44	.176	.869	1 H2-1
151	M141	L2 1/2x2x3/16	.067	0	4	.003	4.431	z	16	1.961	17.44	.176	.869	1 H2-1



Company : GPD Group
 Designer : tclark
 Job Number : 2015723.01.SNET016.01 Rev. 1
 Model Name : SNET016 N. BRANFORD

Feb 11, 2015

Checked By: _____

Envelope AISC 13th(360-05): ASD Steel Code Checks (Continued)

Member	Shape	Code Check	Loc[ft]	LC	Shear C...	Loc[ft]	Dir	LC	Pnc/o...	Pnt/om...	Mnvy/om [k-ft]	Mnzz/o...	Cb	Eqn
152	M142	L2 1/2x2x3/16	.067	0	2	.003	4.431	z	17	1.961	17.44	.176	.869	1 H2-1
153	M184	L2 1/2x2x3/16	.112	0	8	.004	4.982	z	14	1.551	17.44	.176	.866	1 H2-1
154	M185	L2 1/2x2x3/16	.112	9.964	8	.004	4.982	z	11	1.551	17.44	.176	.866	1 H2-1
155	M186	L2 1/2x2x3/16	.111	0	4	.004	4.982	z	17	1.551	17.44	.176	.866	1 H2-1
156	M187	L2 1/2x2x3/16	.110	9.964	4	.004	4.982	z	16	1.551	17.44	.176	.866	1 H2-1
157	M277	L2 1/2x2x3/16	.167	4.38	8	.004	5.533	z	15	1.257	17.44	.176	.794	1 H2-1
158	M278	L2 1/2x2x3/16	.165	6.686	8	.004	5.533	z	18	1.257	17.44	.176	.794	1 H2-1
159	M279	L2 1/2x2x3/16	.164	4.38	4	.004	5.533	z	11	1.257	17.44	.176	.794	1 H2-1
160	M280	L2 1/2x2x3/16	.166	6.686	4	.004	5.533	z	17	1.257	17.44	.176	.794	1 H2-1
161	M370	L3x3x3/16	.175	2.765	8	.005	6.635	z	14	2.295	23.497	-1.232	1.428	1 H2-1
162	M371	L3x3x3/16	.175	10.5...	8	.005	6.635	z	12	2.295	23.497	-1.232	1.428	1 H2-1
163	M372	L3x3x3/16	.175	2.765	4	.004	6.635	z	11	2.295	23.497	-1.232	1.428	1 H2-1
164	M373	L3x3x3/16	.175	10.5...	4	.004	6.635	z	17	2.295	23.497	-1.232	1.428	1 H2-1
165	M463	2L2 1/2x2 1/2x3/16x...	.086	7.737	14	.005	7.737	y	14	10.103	38.802	2.672	1.086	1 H1-...
166	M464	2L2 1/2x2 1/2x3/16x...	.086	7.737	12	.005	7.737	y	12	10.103	38.802	2.672	1.086	1 H1-...
167	M465	2L2 1/2x2 1/2x3/16x...	.086	7.737	18	.005	7.737	y	11	10.103	38.802	2.672	1.086	1 H1-...
168	M466	2L2 1/2x2 1/2x3/16x...	.086	7.737	18	.005	7.737	y	16	10.103	38.802	2.672	1.086	1 H1-...
169	M1	L4x4x1/2	.018	0	9	.004	0	y	4	33.473	80.838	1.548	8.409	1 H2-1
170	M2	L4x4x1/2	.013	0	7	.004	0	y	2	33.473	80.838	1.548	8.409	1 H2-1
171	M3	L4x4x1/2	.013	0	5	.004	0	z	6	33.473	80.838	1.548	8.409	1 H2-1
172	M4	L4x4x1/2	.018	0	3	.004	0	z	4	33.473	80.838	1.548	8.409	1 H2-1
173	M9	L4x4x1/2	.024	12.1...	5	.027	12.548	y	4	49.623	80.838	1.548	8.152	1 H2-1
174	M10	L4x4x1/2	.031	3.66	16	.037	12.548	y	2	49.623	80.838	1.548	8.152	1 H2-1
175	M11	L4x4x1/2	.035	5.49	11	.037	12.548	z	6	49.623	80.838	1.548	8.152	1 H2-1
176	M12	L4x4x1/2	.026	12.4...	7	.034	12.548	z	4	49.623	80.838	1.548	8.152	1 H2-1
177	M54	L4x4x1/2	.090	1.176	7	.004	0	y	4	49.623	80.838	1.548	8.152	1 H2-1
178	M55	L4x4x1/2	.098	.523	6	.004	0	z	7	49.623	80.838	1.548	8.152	1 H2-1
179	M56	L4x4x1/2	.096	.654	2	.004	0	z	6	49.623	80.838	1.548	8.152	1 H2-1
180	M57	L4x4x1/2	.086	5.229	9	.003	0	z	4	49.623	80.838	1.548	8.152	1 H2-1
181	M99	L5x5x1/2	.122	7.189	7	.016	6.274	y	4	75.189	102.395	2.446	13.213	1 H2-1
182	M100	L5x5x1/2	.128	3.921	5	.016	6.274	z	8	75.189	102.395	2.446	13.213	1 H2-1
183	M101	L5x5x1/2	.125	3.921	3	.014	6.274	z	6	75.189	102.395	2.446	13.213	1 H2-1
184	M102	L5x5x1/2	.117	7.189	9	.011	6.274	z	8	75.189	102.395	2.446	13.213	1 H2-1
185	M144	L5x5x1/2	.212	3.921	7	.006	0	y	5	75.189	102.395	2.446	13.213	1 H2-1
186	M145	L5x5x1/2	.220	3.921	5	.006	0	z	7	75.189	102.395	2.446	13.213	1 H2-1
187	M146	L5x5x1/2	.212	9.281	3	.005	0	z	5	75.189	102.395	2.446	13.213	1 H2-1
188	M147	L5x5x1/2	.206	9.411	9	.005	0	y	7	75.189	102.395	2.446	13.213	1 H2-1
189	M189	L6x6x1/2	.235	16.47	7	.011	0	z	9	100.04	123.952	3.534	19.369	1 H2-1
190	M190	L6x6x1/2	.239	16.47	5	.012	0	z	7	100.04	123.952	3.534	19.369	1 H2-1
191	M191	L6x6x1/2	.235	20.3...	3	.010	0	y	9	100.04	123.952	3.534	19.369	1 H2-1
192	M192	L6x6x1/2	.231	20.3...	9	.010	0	y	7	100.04	123.952	3.534	19.369	1 H2-1
193	M282	L6x6x1/2	.400	15.4...	7	.011	0	z	9	100.04	123.952	3.534	19.369	1 H2-1
194	M283	L6x6x1/2	.401	15.4...	5	.011	0	y	3	100.04	123.952	3.534	19.369	1 H2-1
195	M284	L6x6x1/2	.391	20.6...	3	.010	0	z	5	100.04	123.952	3.534	19.369	1 H2-1
196	M285	L6x6x1/2	.389	20.6...	9	.010	0	y	7	100.04	123.952	3.534	19.369	1 H2-1
197	M375	L6x6x1/2	.577	0	7	.010	25.097	z	9	100.04	123.952	3.534	19.369	1 H2-1
198	M376	L6x6x1/2	.575	14.3...	5	.010	25.097	y	3	100.04	123.952	3.534	19.369	1 H2-1
199	M377	L6x6x1/2	.565	14.3...	3	.009	25.097	z	5	100.04	123.952	3.534	19.369	1 H2-1
200	M378	L6x6x1/2	.567	14.3...	9	.009	25.097	y	7	100.04	123.952	3.534	19.369	1 H2-1
201	M560	L2x2x3/16	.005	0	6	.001	0	y	8	6.954	15.413	.148	.713	1 H2-1
202	M561	L2x2x3/16	.005	4.037	9	.001	4.037	y	3	6.954	15.413	.148	.713	1 H2-1
203	M562	L2x2x3/16	.006	0	7	.001	0	y	7	6.954	15.413	.148	.713	1 H2-1
204	M563	L2x2x3/16	.005	4.037	2	.001	0	y	3	6.954	15.413	.148	.713	1 H2-1
205	M564	L2x2x3/16	.006	0	4	.001	0	y	3	6.954	15.413	.148	.713	1 H2-1
206	M565	L2x2x3/16	.005	4.037	9	.001	4.037	y	6	6.954	15.413	.148	.713	1 H2-1
207	M566	L2x2x3/16	.004	0	6	.001	4.037	y	3	6.954	15.413	.148	.713	1 H2-1
208	M567	L2x2x3/16	.005	4.037	4	.001	4.037	y	7	6.954	15.413	.148	.713	1 H2-1



Company : GPD Group
 Designer : tclark
 Job Number : 2015723.01.SNET016.01 Rev. 1
 Model Name : SNET016 N. BRANFORD

Feb 11, 2015

Checked By: _____

Envelope AISC 13th(360-05): ASD Steel Code Checks (Continued)

Member	Shape	Code Check	Loc[ft]	LC	Shear C...	Loc[ft]	Dir	LC	Pnc/o...	Pnt/om...	Mnyy/om	[k-ft]	Mnzz/o...	Cb	Eqn
209	M199	L2 1/2x2 1/2x1/4	.013	0	7	.002	0	z	15	6.467	25.653	.295	1.385	1	H2-1
210	M206	L2 1/2x2 1/2x1/4	.021	0	5	.002	7.185	z	17	6.467	25.653	.295	1.385	1	H2-1
211	M214	L2 1/2x2 1/2x1/4	.008	7.185	9	.002	0	z	10	6.467	25.653	.295	1.385	1	H2-1
212	M221	L2 1/2x2 1/2x1/4	.016	0	3	.002	7.185	z	13	6.467	25.653	.295	1.385	1	H2-1
213	M235	L2 1/2x2 1/2x1/4	.015	0	3	.002	7.185	z	13	6.467	25.653	.295	1.385	1	H2-1
214	M242	L2 1/2x2 1/2x1/4	.008	7.185	5	.002	0	z	16	6.467	25.653	.295	1.385	1	H2-1
215	M256	L2 1/2x2 1/2x1/4	.022	0	9	.002	0	z	16	6.467	25.653	.295	1.385	1	H2-1
216	M263	L2 1/2x2 1/2x1/4	.013	0	7	.002	0	z	16	6.467	25.653	.295	1.385	1	H2-1
217	M292	L2 1/2x2 1/2x3/16	.017	0	8	.003	0	z	14	4.5	19.444	.233	.954	1	H2-1
218	M299	L2 1/2x2 1/2x3/16	.018	0	4	.003	0	z	13	4.5	19.444	.233	.954	1	H2-1
219	M307	L2 1/2x2 1/2x3/16	.012	7.597	2	.003	7.597	z	10	4.5	19.444	.233	.954	1	H2-1
220	M314	L2 1/2x2 1/2x3/16	.015	0	3	.003	0	z	14	4.5	19.444	.233	.954	1	H2-1
221	M328	L2 1/2x2 1/2x3/16	.011	7.597	7	.003	7.597	z	10	4.5	19.444	.233	.954	1	H2-1
222	M335	L2 1/2x2 1/2x3/16	.010	7.597	4	.003	0	z	17	4.5	19.444	.233	.954	1	H2-1
223	M349	L2 1/2x2 1/2x3/16	.018	0	9	.003	7.597	z	11	4.5	19.444	.233	.954	1	H2-1
224	M356	L2 1/2x2 1/2x3/16	.013	7.597	2	.003	0	z	18	4.5	19.444	.233	.954	1	H2-1
225	M385	L2 1/2x2 1/2x3/16	.023	0	9	.003	8.064	z	15	3.921	19.444	.233	.928	1	H2-1
226	M392	L2 1/2x2 1/2x3/16	.023	0	4	.003	8.064	z	14	3.921	19.444	.233	.928	1	H2-1
227	M400	L2 1/2x2 1/2x3/16	.021	0	7	.003	8.064	z	16	3.921	19.444	.233	.928	1	H2-1
228	M407	L2 1/2x2 1/2x3/16	.017	0	2	.003	8.064	z	17	3.921	19.444	.233	.928	1	H2-1
229	M421	L2 1/2x2 1/2x3/16	.016	0	5	.003	8.064	z	13	3.921	19.444	.233	.928	1	H2-1
230	M428	L2 1/2x2 1/2x3/16	.018	0	7	.003	8.064	z	12	3.921	19.444	.233	.928	1	H2-1
231	M442	L2 1/2x2 1/2x3/16	.020	0	2	.003	8.064	z	15	3.921	19.444	.233	.928	1	H2-1
232	M449	L2 1/2x2 1/2x3/16	.023	0	5	.003	8.064	z	15	3.921	19.444	.233	.928	1	H2-1
233	M200	L2 1/2x2 1/2x3/16	.026	0	7	.003	0	z	17	3.605	19.444	.233	.911	1	H2-1
234	M207	L2 1/2x2 1/2x3/16	.045	0	5	.003	0	z	16	3.605	19.444	.233	.911	1	H2-1
235	M215	L2 1/2x2 1/2x3/16	.016	0	5	.003	8.321	z	10	3.605	19.444	.233	.911	1	H2-1
236	M222	L2 1/2x2 1/2x3/16	.033	0	3	.003	8.321	z	16	3.605	19.444	.233	.911	1	H2-1
237	M236	L2 1/2x2 1/2x3/16	.034	0	3	.003	0	z	10	3.605	19.444	.233	.911	1	H2-1
238	M243	L2 1/2x2 1/2x3/16	.015	0	9	.003	0	z	13	3.605	19.444	.233	.911	1	H2-1
239	M257	L2 1/2x2 1/2x3/16	.047	0	9	.003	8.321	z	10	3.605	19.444	.233	.911	1	H2-1
240	M264	L2 1/2x2 1/2x3/16	.030	0	7	.003	8.321	z	18	3.605	19.444	.233	.911	1	H2-1
241	M293	L3x3x3/16	.169	4.566	11	.004	0	z	12	5.231	23.497	-1.232	1.268	1	H2-1
242	M300	L3x3x3/16	.155	4.566	11	.004	9.133	z	15	5.231	23.497	-1.232	1.268	1	H2-1
243	M308	L3x3x3/16	.169	4.566	17	.004	0	z	14	5.231	23.497	-1.232	1.268	1	H2-1
244	M315	L3x3x3/16	.154	4.566	17	.004	9.133	z	15	5.231	23.497	-1.232	1.268	1	H2-1
245	M329	L3x3x3/16	.168	4.566	15	.004	9.133	z	16	5.231	23.497	-1.232	1.268	1	H2-1
246	M336	L3x3x3/16	.154	4.566	15	.004	9.133	z	11	5.231	23.497	-1.232	1.268	1	H2-1
247	M350	L3x3x3/16	.169	4.566	13	.004	9.133	z	11	5.231	23.497	-1.232	1.268	1	H2-1
248	M357	L3x3x3/16	.155	4.566	13	.004	9.133	z	18	5.231	23.497	-1.232	1.268	1	H2-1
249	M386	L3x3x3/16	.218	5.008	12	.004	0	z	13	4.295	23.497	-1.232	1.206	1	H2-1
250	M393	L3x3x3/16	.201	5.008	18	.004	0	z	17	4.295	23.497	-1.232	1.206	1	H2-1
251	M401	L3x3x3/16	.218	5.008	17	.004	10.016	z	15	4.295	23.497	-1.232	1.206	1	H2-1
252	M408	L3x3x3/16	.201	5.008	17	.004	10.016	z	13	4.295	23.497	-1.232	1.206	1	H2-1
253	M422	L3x3x3/16	.218	5.008	15	.004	10.016	z	10	4.295	23.497	-1.232	1.206	1	H2-1
254	M429	L3x3x3/16	.201	5.008	14	.004	0	z	17	4.295	23.497	-1.232	1.206	1	H2-1
255	M443	L3x3x3/16	.218	5.008	14	.004	0	z	16	4.295	23.497	-1.232	1.206	1	H2-1
256	M450	L3x3x3/16	.202	5.008	12	.004	0	z	18	4.295	23.497	-1.232	1.206	1	H2-1
257	M16	L2x2x3/16	.010	6.563	18	.001	6.563	z	14	3.197	15.413	.148	.637	1	H2-1
258	M19	L2x2x3/16	.010	6.563	12	.001	0	z	18	3.197	15.413	.148	.637	1	H2-1
259	M23	L2x2x3/16	.010	6.563	16	.001	6.563	z	13	3.197	15.413	.148	.637	1	H2-1
260	M26	L2x2x3/16	.010	6.563	18	.001	6.563	z	17	3.197	15.413	.148	.637	1	H2-1
261	M32	L2x2x3/16	.009	6.563	14	.001	0	z	14	3.197	15.413	.148	.637	1	H2-1
262	M35	L2x2x3/16	.010	6.563	16	.001	6.563	z	13	3.197	15.413	.148	.637	1	H2-1
263	M41	L2x2x3/16	.009	6.563	12	.001	6.563	z	18	3.197	15.413	.148	.637	1	H2-1
264	M44	L2x2x3/16	.010	6.563	14	.001	6.563	z	11	3.197	15.413	.148	.637	1	H2-1
265	M61	L2x2x3/16	.022	0	7	.002	6.69	z	16	2.995	15.413	.148	.63	1	H2-1



Company : GPD Group
 Designer : tclark
 Job Number : 2015723.01.SNET016.01 Rev. 1
 Model Name : SNET016 N. BRANFORD

Feb 11, 2015

Checked By: _____

Envelope AISC 13th(360-05): ASD Steel Code Checks (Continued)

Member	Shape	Code Check	Loc[ft]	LC	Shear C...	Loc[ft]	Dir	LC	Pnc/o...	Pnt/om...	Mnvy/om [k-ft]	Mnzz/o...	Cb	Eqn
266	M64	L2x2x3/16	.019	0	5	.002	0	z	15	2.995	15.413	.148	.63	1 H2-1
267	M68	L2x2x3/16	.016	0	5	.002	6.69	z	11	2.995	15.413	.148	.63	1 H2-1
268	M71	L2x2x3/16	.024	0	3	.002	6.69	z	12	2.995	15.413	.148	.63	1 H2-1
269	M77	L2x2x3/16	.013	0	3	.002	0	z	10	2.995	15.413	.148	.63	1 H2-1
270	M80	L2x2x3/16	.017	0	9	.002	0	z	10	2.995	15.413	.148	.63	1 H2-1
271	M86	L2x2x3/16	.020	0	9	.002	0	z	12	2.995	15.413	.148	.63	1 H2-1
272	M89	L2x2x3/16	.012	0	7	.002	0	z	10	2.995	15.413	.148	.63	1 H2-1
273	M106	L2x2x3/16	.166	0	7	.002	6.837	z	13	2.802	15.413	.148	.623	1 H2-1
274	M109	L2x2x3/16	.163	0	4	.002	0	z	14	2.802	15.413	.148	.623	1 H2-1
275	M113	L2x2x3/16	.132	0	6	.002	6.837	z	12	2.802	15.413	.148	.623	1 H2-1
276	M116	L2x2x3/16	.148	0	3	.002	6.837	z	12	2.802	15.413	.148	.623	1 H2-1
277	M122	L2x2x3/16	.100	0	4	.002	0	z	17	2.802	15.413	.148	.623	1 H2-1
278	M125	L2x2x3/16	.120	0	9	.002	0	z	15	2.802	15.413	.148	.623	1 H2-1
279	M131	L2x2x3/16	.109	0	9	.002	0	z	14	2.802	15.413	.148	.623	1 H2-1
280	M134	L2x2x3/16	.076	0	6	.002	0	z	10	2.802	15.413	.148	.623	1 H2-1
281	M151	L2x2x3/16	.039	0	6	.002	7.002	z	13	2.709	15.413	.148	.619	1 H2-1
282	M154	L2x2x3/16	.053	0	6	.002	0	z	11	2.709	15.413	.148	.619	1 H2-1
283	M158	L2x2x3/16	.044	0	4	.002	0	z	12	2.709	15.413	.148	.619	1 H2-1
284	M161	L2x2x3/16	.053	0	4	.002	7.002	z	13	2.709	15.413	.148	.619	1 H2-1
285	M167	L2x2x3/16	.054	0	2	.002	0	z	16	2.709	15.413	.148	.619	1 H2-1
286	M170	L2x2x3/16	.039	0	2	.002	7.002	z	17	2.709	15.413	.148	.619	1 H2-1
287	M176	L2x2x3/16	.051	0	8	.002	0	z	17	2.709	15.413	.148	.619	1 H2-1
288	M179	L2x2x3/16	.042	0	8	.002	7.002	z	13	2.709	15.413	.148	.619	1 H2-1
289	M197	L2 1/2x2x3/16	.110	0	5	.001	0	z	13	5.165	17.44	.176	.814	1 H2-1
290	M204	L2 1/2x2x3/16	.127	0	7	.001	0	z	10	5.165	17.44	.176	.814	1 H2-1
291	M212	L2 1/2x2x3/16	.127	0	3	.001	0	z	13	5.165	17.44	.176	.814	1 H2-1
292	M219	L2 1/2x2x3/16	.122	0	5	.001	0	z	12	5.165	17.44	.176	.814	1 H2-1
293	M233	L2 1/2x2x3/16	.123	0	2	.001	0	z	15	5.165	17.44	.176	.814	1 H2-1
294	M240	L2 1/2x2x3/16	.105	0	3	.001	6.455	z	11	5.165	17.44	.176	.814	1 H2-1
295	M254	L2 1/2x2x3/16	.112	0	8	.001	0	z	17	5.165	17.44	.176	.814	1 H2-1
296	M261	L2 1/2x2x3/16	.116	0	8	.001	0	z	17	5.165	17.44	.176	.814	1 H2-1
297	M290	L2x2x3/16	.161	0	6	.001	6.561	z	18	3.516	15.413	.148	.647	1 H2-1
298	M297	L2x2x3/16	.173	0	6	.001	6.561	z	16	3.516	15.413	.148	.647	1 H2-1
299	M305	L2x2x3/16	.171	0	4	.001	0	z	16	3.516	15.413	.148	.647	1 H2-1
300	M312	L2x2x3/16	.167	0	4	.001	0	z	10	3.516	15.413	.148	.647	1 H2-1
301	M326	L2x2x3/16	.171	0	2	.001	0	z	18	3.516	15.413	.148	.647	1 H2-1
302	M333	L2x2x3/16	.158	0	2	.001	0	z	12	3.516	15.413	.148	.647	1 H2-1
303	M347	L2x2x3/16	.166	0	8	.001	0	z	11	3.516	15.413	.148	.647	1 H2-1
304	M354	L2x2x3/16	.170	0	8	.001	0	z	13	3.516	15.413	.148	.647	1 H2-1
305	M383	L2 1/2x2x3/16	.067	0	7	.001	0	z	10	4.305	17.44	.176	.788	1 H2-1
306	M390	L2 1/2x2x3/16	.071	0	5	.001	6.687	z	14	4.305	17.44	.176	.788	1 H2-1
307	M398	L2 1/2x2x3/16	.067	0	5	.001	6.687	z	17	4.305	17.44	.176	.788	1 H2-1
308	M405	L2 1/2x2x3/16	.068	0	3	.001	6.687	z	15	4.305	17.44	.176	.788	1 H2-1
309	M419	L2 1/2x2x3/16	.070	0	3	.001	0	z	16	4.305	17.44	.176	.788	1 H2-1
310	M426	L2 1/2x2x3/16	.066	0	9	.001	0	z	12	4.305	17.44	.176	.788	1 H2-1
311	M440	L2 1/2x2x3/16	.071	0	9	.001	6.687	z	18	4.305	17.44	.176	.788	1 H2-1
312	M447	L2 1/2x2x3/16	.070	0	7	.001	6.687	z	12	4.305	17.44	.176	.788	1 H2-1
313	M28	L2 1/2x2x3/16	.020	0	16	.002	6.837	y	15	3.294	17.44	.176	.748	1 H2-1
314	M37	L2 1/2x2x3/16	.020	0	14	.002	6.837	y	17	3.294	17.44	.176	.748	1 H2-1
315	M46	L2 1/2x2x3/16	.020	0	12	.002	0	y	16	3.294	17.44	.176	.748	1 H2-1
316	M48	L2 1/2x2x3/16	.020	0	18	.002	6.837	y	17	3.294	17.44	.176	.748	1 H2-1
317	M576	L2 1/2x2x3/16	.016	0	12	.001	0	y	3	3.294	17.44	.176	.748	1 H2-1
318	M577	L2 1/2x2x3/16	.016	0	14	.001	6.837	y	5	3.294	17.44	.176	.748	1 H2-1
319	M578	L2 1/2x2x3/16	.016	0	18	.001	6.837	y	9	3.294	17.44	.176	.748	1 H2-1
320	M579	L2 1/2x2x3/16	.016	0	17	.001	6.837	y	7	3.294	17.44	.176	.748	1 H2-1
321	M73	L2 1/2x2x3/16	.023	0	16	.002	0	y	13	3.14	17.44	.176	.74	1 H2-1
322	M82	L2 1/2x2x3/16	.023	0	14	.002	7.002	y	14	3.14	17.44	.176	.74	1 H2-1



Company : GPD Group
 Designer : tclark
 Job Number : 2015723.01.SNET016.01 Rev. 1
 Model Name : SNET016 N. BRANFORD

Feb 11, 2015

Checked By: _____

Envelope AISC 13th(360-05): ASD Steel Code Checks (Continued)

Member	Shape	Code Check	Loc[ft]	LC	Shear C...	Loc[ft]	Dir	LC	Pnc/o...	Pnt/om...	Mrvy/om	[k-ft]	Mnzz/o...	Cb	Eqn
380	M460	2L2 1/2x2x3/16x3/8	.079	5.158	16	.006	10.316	z	10	10.005	34.922	1.811	1.688	1	H1-...
381	M27	L2x2x3/16	.001	0	9	.002	3.329	z	10	8.972	15.413	.148	.744	1	H2-1
382	M36	L2x2x3/16	.001	0	7	.002	3.329	z	10	8.972	15.413	.148	.744	1	H2-1
383	M45	L2x2x3/16	.001	0	5	.002	3.329	z	10	8.972	15.413	.148	.744	1	H2-1
384	M47	L2x2x3/16	.001	0	3	.002	3.329	z	10	8.972	15.413	.148	.744	1	H2-1
385	M72	L2x2x3/16	.001	0	14	.003	3.88	z	10	7.39	15.413	.148	.719	1	H2-1
386	M81	L2x2x3/16	.001	0	12	.003	3.88	z	10	7.39	15.413	.148	.719	1	H2-1
387	M90	L2x2x3/16	.001	0	18	.003	3.88	z	10	7.39	15.413	.148	.719	1	H2-1
388	M92	L2x2x3/16	.001	0	16	.003	3.88	z	10	7.39	15.413	.148	.719	1	H2-1
389	M117	L2x2x3/16	.001	0	15	.003	4.431	z	10	5.901	15.413	.148	.696	1	H2-1
390	M126	L2x2x3/16	.001	0	11	.003	4.431	z	10	5.901	15.413	.148	.696	1	H2-1
391	M135	L2x2x3/16	.001	0	11	.003	4.431	z	10	5.901	15.413	.148	.696	1	H2-1
392	M137	L2x2x3/16	.001	0	15	.003	4.431	z	10	5.901	15.413	.148	.696	1	H2-1
393	M162	L2x2x3/16	.002	0	14	.003	0	z	10	4.668	15.413	.148	.675	1	H2-1
394	M171	L2x2x3/16	.002	0	12	.003	0	z	10	4.668	15.413	.148	.675	1	H2-1
395	M180	L2x2x3/16	.002	0	18	.003	0	z	10	4.668	15.413	.148	.675	1	H2-1
396	M182	L2x2x3/16	.002	0	16	.003	0	z	10	4.668	15.413	.148	.675	1	H2-1
397	M196	L2 1/2x2 1/2x1/4	.010	0	3	.002	3.912	z	13	16.569	25.653	.295	1.587	1	H2-1
398	M203	L2 1/2x2 1/2x1/4	.012	0	9	.002	3.912	z	12	16.569	25.653	.295	1.587	1	H2-1
399	M211	L2 1/2x2 1/2x1/4	.007	0	9	.002	3.912	z	11	16.569	25.653	.295	1.587	1	H2-1
400	M218	L2 1/2x2 1/2x1/4	.009	0	7	.002	3.912	z	11	16.569	25.653	.295	1.587	1	H2-1
401	M232	L2 1/2x2 1/2x1/4	.009	0	7	.002	3.912	z	17	16.569	25.653	.295	1.587	1	H2-1
402	M239	L2 1/2x2 1/2x1/4	.007	0	5	.002	3.912	z	17	16.569	25.653	.295	1.587	1	H2-1
403	M253	L2 1/2x2 1/2x1/4	.012	0	5	.002	3.912	z	15	16.569	25.653	.295	1.587	1	H2-1
404	M260	L2 1/2x2 1/2x1/4	.010	0	3	.002	3.912	z	14	16.569	25.653	.295	1.587	1	H2-1
405	M289	L2 1/2x2 1/2x3/16	.018	0	4	.003	0	z	16	10.494	19.444	.233	1.113	1	H2-1
406	M296	L2 1/2x2 1/2x3/16	.018	0	8	.003	0	z	16	10.494	19.444	.233	1.113	1	H2-1
407	M304	L2 1/2x2 1/2x3/16	.015	0	2	.003	0	z	10	10.494	19.444	.233	1.113	1	H2-1
408	M311	L2 1/2x2 1/2x3/16	.015	0	7	.003	0	z	14	10.494	19.444	.233	1.113	1	H2-1
409	M325	L2 1/2x2 1/2x3/16	.014	0	7	.003	0	z	13	10.494	19.444	.233	1.113	1	H2-1
410	M332	L2 1/2x2 1/2x3/16	.013	0	4	.003	0	z	10	10.494	19.444	.233	1.113	1	H2-1
411	M346	L2 1/2x2 1/2x3/16	.018	0	5	.003	0	z	10	10.494	19.444	.233	1.113	1	H2-1
412	M353	L2 1/2x2 1/2x3/16	.017	0	2	.003	0	z	11	10.494	19.444	.233	1.113	1	H2-1
413	M382	L2 1/2x2 1/2x3/16	.030	0	4	.003	5.471	z	10	8.345	19.444	.233	1.064	1	H2-1
414	M389	L2 1/2x2 1/2x3/16	.030	0	8	.003	5.471	z	10	8.345	19.444	.233	1.064	1	H2-1
415	M397	L2 1/2x2 1/2x3/16	.028	0	3	.003	5.471	z	10	8.345	19.444	.233	1.064	1	H2-1
416	M404	L2 1/2x2 1/2x3/16	.025	0	6	.003	5.471	z	10	8.345	19.444	.233	1.064	1	H2-1
417	M418	L2 1/2x2 1/2x3/16	.024	0	8	.003	5.471	z	10	8.345	19.444	.233	1.064	1	H2-1
418	M425	L2 1/2x2 1/2x3/16	.025	0	3	.003	5.471	z	10	8.345	19.444	.233	1.064	1	H2-1
419	M439	L2 1/2x2 1/2x3/16	.028	0	6	.003	5.471	z	10	8.345	19.444	.233	1.064	1	H2-1
420	M446	L2 1/2x2 1/2x3/16	.030	0	9	.003	5.471	z	10	8.345	19.444	.233	1.064	1	H2-1
421	M198	L2 1/2x2 1/2x3/16	.033	0	3	.003	0	z	17	7.304	19.444	.233	1.039	1	H2-1
422	M205	L2 1/2x2 1/2x3/16	.039	0	9	.003	0	z	16	7.304	19.444	.233	1.039	1	H2-1
423	M213	L2 1/2x2 1/2x3/16	.026	0	9	.003	0	z	10	7.304	19.444	.233	1.039	1	H2-1
424	M220	L2 1/2x2 1/2x3/16	.031	0	7	.003	0	z	14	7.304	19.444	.233	1.039	1	H2-1
425	M234	L2 1/2x2 1/2x3/16	.032	0	7	.003	0	z	12	7.304	19.444	.233	1.039	1	H2-1
426	M241	L2 1/2x2 1/2x3/16	.025	0	5	.003	0	z	12	7.304	19.444	.233	1.039	1	H2-1
427	M255	L2 1/2x2 1/2x3/16	.039	0	5	.003	0	z	11	7.304	19.444	.233	1.039	1	H2-1
428	M262	L2 1/2x2 1/2x3/16	.035	0	3	.003	0	z	11	7.304	19.444	.233	1.039	1	H2-1
429	M291	L2 1/2x2x3/16	.089	0	2	.004	7.037	z	10	3.34	17.44	.176	.75	1	H2-1
430	M298	L2 1/2x2x3/16	.102	0	2	.004	7.037	z	10	3.34	17.44	.176	.75	1	H2-1
431	M306	L2 1/2x2x3/16	.090	0	8	.004	7.037	z	10	3.34	17.44	.176	.75	1	H2-1
432	M313	L2 1/2x2x3/16	.099	0	8	.004	7.037	z	10	3.34	17.44	.176	.75	1	H2-1
433	M327	L2 1/2x2x3/16	.100	0	6	.004	7.037	z	10	3.34	17.44	.176	.75	1	H2-1
434	M334	L2 1/2x2x3/16	.087	0	6	.004	7.037	z	10	3.34	17.44	.176	.75	1	H2-1
435	M348	L2 1/2x2x3/16	.101	0	4	.004	7.037	z	10	3.34	17.44	.176	.75	1	H2-1
436	M355	L2 1/2x2x3/16	.092	0	4	.004	7.037	z	10	3.34	17.44	.176	.75	1	H2-1



Company : GPD Group
 Designer : tclark
 Job Number : 2015723.01.SNET016.01 Rev. 1
 Model Name : SNET016 N. BRANFORD

Feb 11, 2015

Checked By: _____

Envelope AISC 13th(360-05): ASD Steel Code Checks (Continued)

Member	Shape	Code Check	Loc[ft]	LC	Shear C...	Loc[ft]	Dir	LC	Pnc/o...	Pnt/om...	Mnyy/om [k-ft]	Mnzz/o...	Cb	Eqn
437	M384	L2 1/2x2 1/2x3/16	.084	0	3	.005	8.206	z	10	3.641	19.444	.233	.913	1 H2-1
438	M391	L2 1/2x2 1/2x3/16	.089	0	9	.005	8.206	z	10	3.641	19.444	.233	.913	1 H2-1
439	M399	L2 1/2x2 1/2x3/16	.081	0	9	.005	8.206	z	10	3.641	19.444	.233	.913	1 H2-1
440	M406	L2 1/2x2 1/2x3/16	.085	0	8	.005	8.206	z	10	3.641	19.444	.233	.913	1 H2-1
441	M420	L2 1/2x2 1/2x3/16	.086	0	7	.005	8.206	z	10	3.641	19.444	.233	.913	1 H2-1
442	M427	L2 1/2x2 1/2x3/16	.080	0	5	.005	8.206	z	10	3.641	19.444	.233	.913	1 H2-1
443	M441	L2 1/2x2 1/2x3/16	.091	0	5	.005	8.206	z	10	3.641	19.444	.233	.913	1 H2-1
444	M448	L2 1/2x2 1/2x3/16	.089	0	3	.005	8.206	z	10	3.641	19.444	.233	.913	1 H2-1
445	M15	L2x2x3/16	.003	0	3	.002	0	z	16	12.195	15.413	.148	.803	1 H2-1
446	M18	L2x2x3/16	.002	0	9	.002	0	z	17	12.195	15.413	.148	.803	1 H2-1
447	M22	L2x2x3/16	.002	0	9	.002	0	z	14	12.195	15.413	.148	.803	1 H2-1
448	M25	L2x2x3/16	.003	0	7	.002	0	z	14	12.195	15.413	.148	.803	1 H2-1
449	M31	L2x2x3/16	.001	0	6	.002	0	z	13	12.195	15.413	.148	.803	1 H2-1
450	M34	L2x2x3/16	.002	0	6	.002	0	z	13	12.195	15.413	.148	.803	1 H2-1
451	M40	L2x2x3/16	.002	0	4	.002	0	z	11	12.195	15.413	.148	.803	1 H2-1
452	M43	L2x2x3/16	.001	0	14	.002	0	z	11	12.195	15.413	.148	.803	1 H2-1
453	M60	L2x2x3/16	.006	0	3	.002	2.743	z	12	11.136	15.413	.148	.782	1 H2-1
454	M63	L2x2x3/16	.006	0	9	.002	2.743	z	12	11.136	15.413	.148	.782	1 H2-1
455	M67	L2x2x3/16	.005	0	9	.002	2.743	z	11	11.136	15.413	.148	.782	1 H2-1
456	M70	L2x2x3/16	.006	0	7	.002	2.743	z	11	11.136	15.413	.148	.782	1 H2-1
457	M76	L2x2x3/16	.005	0	6	.002	2.743	z	17	11.136	15.413	.148	.782	1 H2-1
458	M79	L2x2x3/16	.005	0	5	.002	2.743	z	17	11.136	15.413	.148	.782	1 H2-1
459	M85	L2x2x3/16	.006	0	5	.002	2.743	z	15	11.136	15.413	.148	.782	1 H2-1
460	M88	L2x2x3/16	.005	0	3	.002	2.743	z	14	11.136	15.413	.148	.782	1 H2-1
461	M105	L2x2x3/16	.050	0	4	.002	0	z	16	10.164	15.413	.148	.764	1 H2-1
462	M108	L2x2x3/16	.051	0	8	.002	0	z	16	10.164	15.413	.148	.764	1 H2-1
463	M112	L2x2x3/16	.043	0	2	.002	0	z	14	10.164	15.413	.148	.764	1 H2-1
464	M115	L2x2x3/16	.045	0	7	.002	0	z	14	10.164	15.413	.148	.764	1 H2-1
465	M121	L2x2x3/16	.033	0	8	.002	0	z	12	10.164	15.413	.148	.764	1 H2-1
466	M124	L2x2x3/16	.036	0	5	.002	0	z	13	10.164	15.413	.148	.764	1 H2-1
467	M130	L2x2x3/16	.033	0	5	.002	0	z	11	10.164	15.413	.148	.764	1 H2-1
468	M133	L2x2x3/16	.027	0	2	.002	0	z	11	10.164	15.413	.148	.764	1 H2-1
469	M150	L2x2x3/16	.014	0	2	.002	3.523	z	10	9.027	15.413	.148	.745	1 H2-1
470	M153	L2x2x3/16	.018	0	2	.002	3.523	z	10	9.027	15.413	.148	.745	1 H2-1
471	M157	L2x2x3/16	.015	0	8	.002	3.523	z	15	9.027	15.413	.148	.745	1 H2-1
472	M160	L2x2x3/16	.017	0	8	.002	3.523	z	14	9.027	15.413	.148	.745	1 H2-1
473	M166	L2x2x3/16	.018	0	6	.002	3.523	z	10	9.027	15.413	.148	.745	1 H2-1
474	M169	L2x2x3/16	.014	0	6	.002	3.523	z	10	9.027	15.413	.148	.745	1 H2-1
475	M175	L2x2x3/16	.017	0	4	.002	3.523	z	10	9.027	15.413	.148	.745	1 H2-1
476	M178	L2x2x3/16	.016	0	4	.002	3.523	z	10	9.027	15.413	.148	.745	1 H2-1
477	M195	L2 1/2x2x3/16	.021	0	5	.001	0	z	13	15.212	17.44	.176	1.057	1 H2-1
478	M202	L2 1/2x2x3/16	.024	0	7	.001	0	z	13	15.212	17.44	.176	1.057	1 H2-1
479	M210	L2 1/2x2x3/16	.024	0	3	.001	0	z	11	15.212	17.44	.176	1.057	1 H2-1
480	M217	L2 1/2x2x3/16	.023	0	5	.001	0	z	11	15.212	17.44	.176	1.057	1 H2-1
481	M231	L2 1/2x2x3/16	.023	0	9	.001	0	z	17	15.212	17.44	.176	1.057	1 H2-1
482	M238	L2 1/2x2x3/16	.020	0	3	.001	0	z	17	15.212	17.44	.176	1.057	1 H2-1
483	M252	L2 1/2x2x3/16	.021	0	8	.001	0	z	14	15.212	17.44	.176	1.057	1 H2-1
484	M259	L2 1/2x2x3/16	.022	0	8	.001	0	z	14	15.212	17.44	.176	1.057	1 H2-1
485	M288	L2x2x3/16	.027	0	6	.001	0	z	11	12.427	15.413	.148	.808	1 H2-1
486	M295	L2x2x3/16	.029	0	6	.001	0	z	10	12.427	15.413	.148	.808	1 H2-1
487	M303	L2x2x3/16	.029	0	4	.001	0	z	10	12.427	15.413	.148	.808	1 H2-1
488	M310	L2x2x3/16	.028	0	4	.001	0	z	10	12.427	15.413	.148	.808	1 H2-1
489	M324	L2x2x3/16	.029	0	2	.001	0	z	10	12.427	15.413	.148	.808	1 H2-1
490	M331	L2x2x3/16	.027	0	2	.001	0	z	10	12.427	15.413	.148	.808	1 H2-1
491	M345	L2x2x3/16	.028	0	8	.001	0	z	10	12.427	15.413	.148	.808	1 H2-1
492	M352	L2x2x3/16	.029	0	8	.001	0	z	10	12.427	15.413	.148	.808	1 H2-1
493	M381	L2 1/2x2x3/16	.016	0	3	.001	2.735	z	16	13.305	17.44	.176	.995	1 H2-1



Company : GPD Group
 Designer : tclark
 Job Number : 2015723.01.SNET016.01 Rev. 1
 Model Name : SNET016 N. BRANFORD

Feb 11, 2015

Checked By: _____

Envelope AISC 13th(360-05): ASD Steel Code Checks (Continued)

Member	Shape	Code Check	Loc[ft]	LC	Shear C...	Loc[ft]	Dir	LC	Pnc/o...	Pnt/om...	Mnyv/om [k-ft]	Mnzz/o...	Cb	Eqn
494	M388	L2 1/2x2x3/16	.016	0	9	.001	2.735	z	16	13.305	17.44	.176	.995	1 H2-1
495	M396	L2 1/2x2x3/16	.015	0	9	.001	2.735	z	14	13.305	17.44	.176	.995	1 H2-1
496	M403	L2 1/2x2x3/16	.016	0	7	.001	2.735	z	15	13.305	17.44	.176	.995	1 H2-1
497	M417	L2 1/2x2x3/16	.016	0	7	.001	2.735	z	11	13.305	17.44	.176	.995	1 H2-1
498	M424	L2 1/2x2x3/16	.015	0	5	.001	2.735	z	14	13.305	17.44	.176	.995	1 H2-1
499	M438	L2 1/2x2x3/16	.017	0	5	.001	2.735	z	11	13.305	17.44	.176	.995	1 H2-1
500	M445	L2 1/2x2x3/16	.016	0	3	.001	2.735	z	11	13.305	17.44	.176	.995	1 H2-1
501	M540	L2 1/2x2x3/16	.019	0	16	.000	6.274	y	8	3.911	17.44	.176	.774	1 H2-1
502	M541	L2 1/2x2x3/16	.019	0	11	.000	6.274	y	2	3.911	17.44	.176	.774	1 H2-1
503	M542	L2 1/2x2x3/16	.019	0	14	.000	6.274	y	6	3.911	17.44	.176	.774	1 H2-1
504	M543	L2 1/2x2x3/16	.019	0	17	.000	6.274	y	3	3.911	17.44	.176	.774	1 H2-1
505	M544	L2 1/2x2x3/16	.019	0	12	.000	0	y	4	3.911	17.44	.176	.774	1 H2-1
506	M545	L2 1/2x2x3/16	.019	0	14	.000	6.274	y	3	3.911	17.44	.176	.774	1 H2-1
507	M546	L2 1/2x2x3/16	.019	0	17	.000	6.274	y	2	3.911	17.44	.176	.774	1 H2-1
508	M547	L2 1/2x2x3/16	.019	0	12	.001	6.274	y	3	3.911	17.44	.176	.774	1 H2-1
509	M508	L2 1/2x2x3/16	.021	0	18	.001	6.455	y	7	3.695	17.44	.176	.765	1 H2-1
510	M509	L2 1/2x2x3/16	.022	0	12	.001	0	y	7	3.695	17.44	.176	.765	1 H2-1
511	M510	L2 1/2x2x3/16	.022	0	16	.001	6.455	y	5	3.695	17.44	.176	.765	1 H2-1
512	M511	L2 1/2x2x3/16	.022	0	18	.001	0	y	14	3.695	17.44	.176	.765	1 H2-1
513	M512	L2 1/2x2x3/16	.022	0	14	.001	0	y	3	3.695	17.44	.176	.765	1 H2-1
514	M513	L2 1/2x2x3/16	.022	0	16	.001	0	y	8	3.695	17.44	.176	.765	1 H2-1
515	M514	L2 1/2x2x3/16	.022	0	12	.001	0	y	9	3.695	17.44	.176	.765	1 H2-1
516	M515	L2 1/2x2x3/16	.022	0	14	.001	6.455	y	7	3.695	17.44	.176	.765	1 H2-1
517	M492	L2x2 1/2x3/16	.025	0	18	.001	0	y	9	3.577	17.44	.315	.955	1 H2-1
518	M493	L2x2 1/2x3/16	.025	0	12	.001	6.561	y	5	3.577	17.44	.315	.955	1 H2-1
519	M494	L2x2 1/2x3/16	.025	0	16	.001	6.561	y	6	3.577	17.44	.315	.955	1 H2-1
520	M495	L2x2 1/2x3/16	.025	0	18	.001	6.561	y	3	3.577	17.44	.315	.955	1 H2-1
521	M496	L2x2 1/2x3/16	.025	0	14	.001	6.561	y	4	3.577	17.44	.315	.955	1 H2-1
522	M497	L2x2 1/2x3/16	.025	0	16	.001	6.561	y	9	3.577	17.44	.315	.955	1 H2-1
523	M498	L2x2 1/2x3/16	.025	0	12	.001	6.561	y	3	3.577	17.44	.315	.955	1 H2-1
524	M499	L2x2 1/2x3/16	.025	0	14	.001	6.561	y	7	3.577	17.44	.315	.955	1 H2-1
525	M476	L2x2x3/16	.041	0	16	.001	0	y	5	2.591	15.413	.148	.614	1 H2-1
526	M477	L2x2x3/16	.041	0	18	.002	6.687	y	3	2.591	15.413	.148	.614	1 H2-1
527	M478	L2x2x3/16	.042	0	14	.001	6.687	y	3	2.591	15.413	.148	.614	1 H2-1
528	M479	L2x2x3/16	.042	0	16	.002	0	y	9	2.591	15.413	.148	.614	1 H2-1
529	M480	L2x2x3/16	.041	0	12	.001	6.687	y	9	2.591	15.413	.148	.614	1 H2-1
530	M481	L2x2x3/16	.041	0	14	.002	0	y	7	2.591	15.413	.148	.614	1 H2-1
531	M482	L2x2x3/16	.041	0	18	.001	6.687	y	7	2.591	15.413	.148	.614	1 H2-1
532	M483	L2x2x3/16	.041	0	12	.002	0	y	5	2.591	15.413	.148	.614	1 H2-1

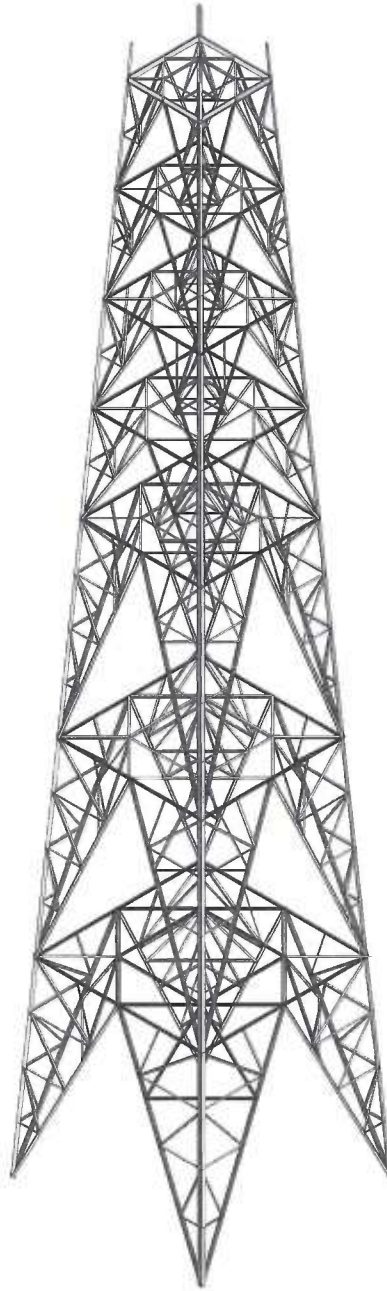
Bolt Checks

Section #	Elevation	Component Type	Bolt Grade	Bolt Size (in)	# of Bolts	Maximum Load (k)	Maximum Load per Bolt (k)	Allowable Load per Bolt (k)	Ratio	Allowable Ratio	% Capacity	% Capacity
T2	125	Horizontal	A307	0.625	2	1.149	0.574	3.068	0.187	1.333	14.0%	Bolt Shear
		Diagonal	A307	0.625	2	2.871	1.436	6.136	0.234	1.333	17.6%	Bolt Shear
T3	112.5	Leg	A307	0.625	12	4.774	0.398	3.068	0.130	1.333	9.7%	Bolt SS
		Horizontal	A307	0.625	2	1.586	0.793	6.136	0.129	1.333	9.7%	Bolt Shear
		Diagonal	A307	0.625	2	3.723	1.862	6.136	0.303	1.333	22.8%	Bolt Shear
		Horizontal	A307	0.625	2	2.256	1.128	6.136	0.184	1.333	13.8%	Bolt Shear
T4	100	Diagonal	A307	0.625	2	5.217	2.608	6.136	0.425	1.333	31.9%	Bolt Shear
		Leg	A307	0.625	12	16.687	1.391	3.068	0.453	1.333	34.0%	Bolt SS
	87.5	Horizontal	A307	0.625	2	2.866	1.433	6.136	0.234	1.333	17.5%	Bolt Shear
		Diagonal	A307	0.625	2	5.557	2.778	6.136	0.453	1.333	34.0%	Bolt Shear
T6	75	Leg	A307	0.625	16	24.319	1.52	3.068	0.495	1.333	37.2%	Bolt SS
		Horizontal	A307	0.625	2	3.535	1.768	6.136	0.288	1.333	21.6%	Bolt Shear
		Diagonal	A307	0.625	2	10.326	5.163	6.136	0.841	1.333	63.1%	Bolt Shear
		Leg	A307	0.625	20	40.127	2.006	3.068	0.654	1.333	49.1%	Bolt SS
T7	50	Horizontal	A307	0.625	2	4.606	2.303	6.136	0.375	1.333	28.2%	Bolt Shear
		Diagonal	A307	0.625	2	11.731	5.866	6.136	0.956	1.333	71.7%	Bolt Shear
	25	Leg	A307	0.625	24	57.874	2.411	3.068	0.786	1.333	59.0%	Bolt SS
		Horizontal	A307	0.625	2	5.492	2.746	6.136	0.448	1.333	33.6%	Bolt Shear
		Diagonal	A307	0.625	2	12.883	6.442	6.136	1.050	1.333	78.8%	Bolt Shear
		Inner Corner	A307	0.625	2	0.969	0.484	3.068	0.158	1.333	11.8%	Bolt Shear
		Anchor Rod	C1015	1.75	4	56.155	14.039	44.45	0.316	1.000	31.6%	Bolt Tension

Maximum Capacity	78.8%
------------------	-------

APPENDIX C

Tower Elevation Drawing

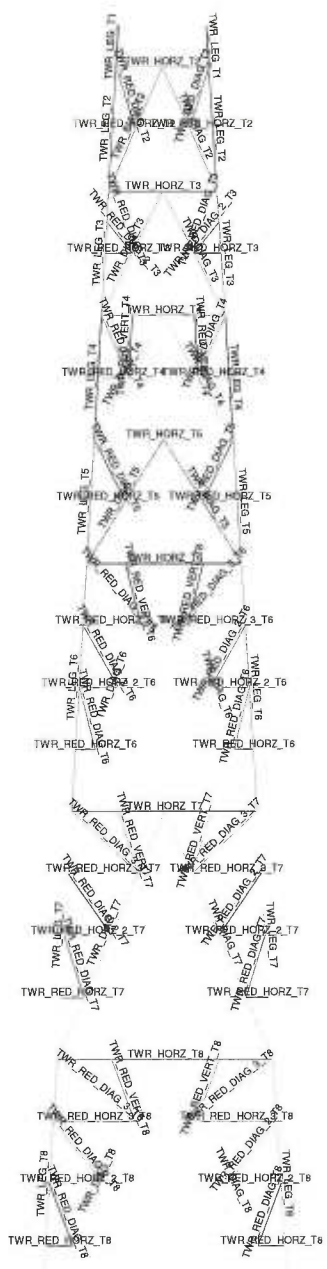


Envelo - City Solution

GPD Group
tclark
2015723.01.SNET016.01 ...

SNET016 N. BRANFORD

SK - 1
Feb 11, 2015 at 10:04 AM
SNET016.rt3



Envelope Only Solution

GPD Group
 tclark
 2015723.01.SNET016.01 ...

SNET016 N. BRANFORD

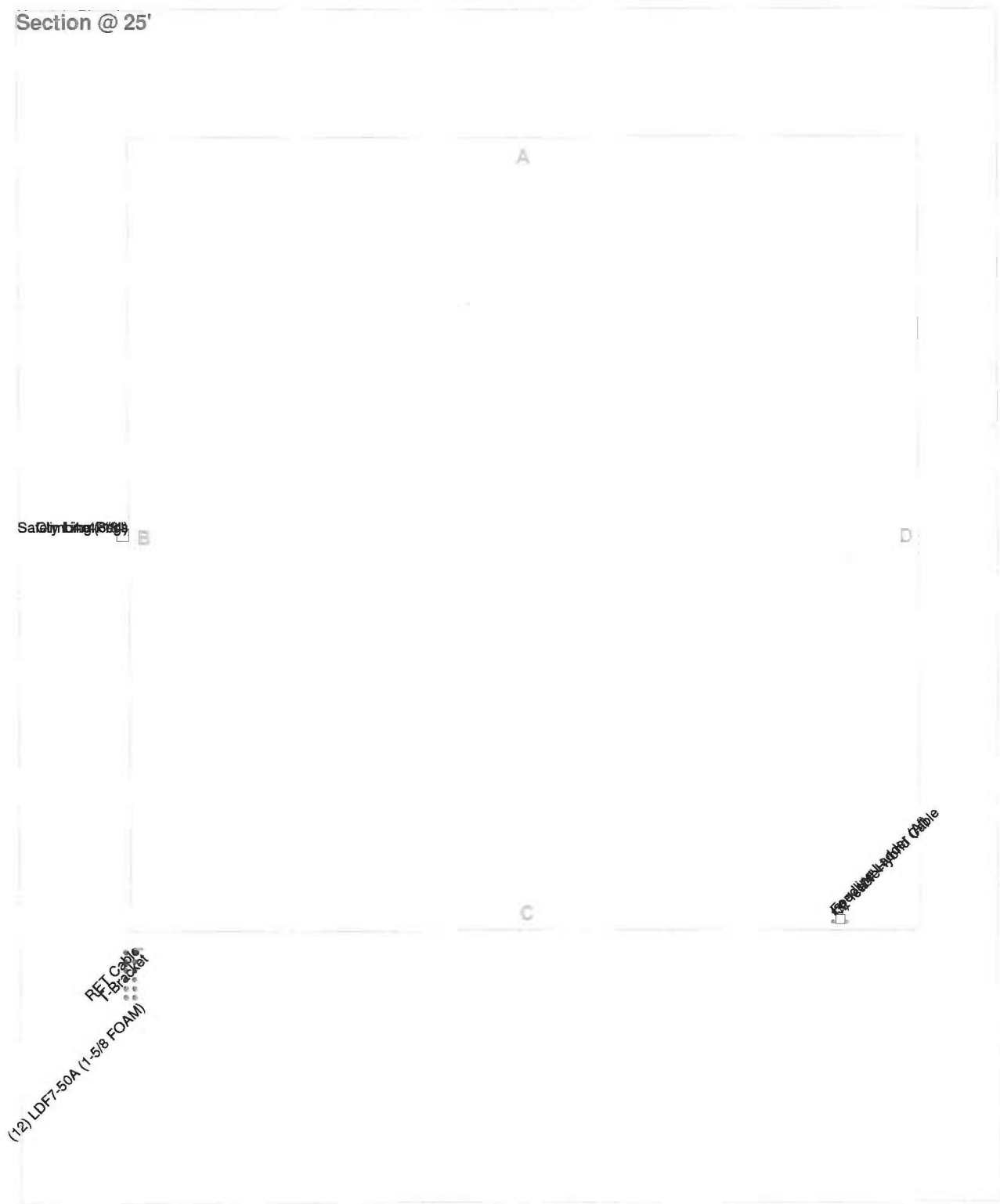
SK - 2
 Feb 11, 2015 at 10:04 AM
 SNET016.rt3

Feed Line Plan

25'

Round _____ Flat _____ App In Face _____ App Out Face _____

Section @ 25'



Safety Ditch (889)

RFET Cable Bracket

(12) LDF7-50A (1-5/8 FOAM)

Fiberbase-Ladder Cable

 GPD Group	GPD Group 520 South Main Street, Ste 2531 Akron, OH Phone: (330) 572-2100 FAX: (330) 572-2101	Job: SNET016 N. BRANFORD		
	Project: 2015723.01.SNET016.01 Rev. 1	Client: AT&T Tower	Drawn by: tolark	App'd:
	Code: TIA/EIA-222-F	Date: 02/11/15	Scale: NTS	
	Path:		Dwg No. E-7	
	<small>N:\2011\ATandT\SNET016\022 2015723 01 SNET016 01 AT&T SA\W\TXN\FINAL\SNET016</small>			

EXHIBIT C

**RADIO FREQUENCY EMISSIONS ANALYSIS REPORT
EVALUATION OF HUMAN EXPOSURE POTENTIAL
TO NON-IONIZING EMISSIONS**

T-Mobile Existing Facility

Site ID: CT11224A

**Guilford 1_1
50 Youngs Apple Orchard Road
North Branford, CT 06472**

February 24, 2015

EBI Project Number: 6215001282

Site Compliance Summary	
Compliance Status:	COMPLIANT
Site total MPE% of FCC general public allowable limit:	17.06 %

February 24, 2015

T-Mobile USA
Attn: Jason Overbey, RF Manager
35 Griffin Road South
Bloomfield, CT 06002

Emissions Analysis for Site: **CT11224A – Guilford 1_1**

EBI Consulting was directed to analyze the proposed T-Mobile facility located at **50 Youngs Apple Orchard Road, North Branford, CT**, for the purpose of determining whether the emissions from the Proposed T-Mobile Antenna Installation located on this property are within specified federal limits.

All information used in this report was analyzed as a percentage of current Maximum Permissible Exposure (% MPE) as listed in the FCC OET Bulletin 65 Edition 97-01 and ANSI/IEEE Std C95.1. The FCC regulates Maximum Permissible Exposure in units of microwatts per square centimeter ($\mu\text{W}/\text{cm}^2$). The number of $\mu\text{W}/\text{cm}^2$ calculated at each sample point is called the power density. The exposure limit for power density varies depending upon the frequencies being utilized. Wireless Carriers and Paging Services use different frequency bands each with different exposure limits, therefore it is necessary to report results and limits in terms of percent MPE rather than power density.

All results were compared to the FCC (Federal Communications Commission) radio frequency exposure rules, 47 CFR 1.1307(b)(1) – (b)(3), to determine compliance with the Maximum Permissible Exposure (MPE) limits for General Population/Uncontrolled environments as defined below.

General population/uncontrolled exposure limits apply to situations in which the general public may be exposed or in which persons who are exposed as a consequence of their employment may not be made fully aware of the potential for exposure or cannot exercise control over their exposure. Therefore, members of the general public would always be considered under this category when exposure is not employment related, for example, in the case of a telecommunications tower that exposes persons in a nearby residential area.

Public exposure to radio frequencies is regulated and enforced in units of microwatts per square centimeter ($\mu\text{W}/\text{cm}^2$). The general population exposure limit for the 700 MHz Band is $467 \mu\text{W}/\text{cm}^2$, and the general population exposure limit for the PCS and AWS bands is $1000 \mu\text{W}/\text{cm}^2$. Because each carrier will be using different frequency bands, and each frequency band has different exposure limits, it is necessary to report percent of MPE rather than power density.

Occupational/controlled exposure limits apply to situations in which persons are exposed as a consequence of their employment and in which those persons who are exposed have been made fully aware of the potential for exposure and can exercise control over their exposure. Occupational/controlled exposure limits also apply where exposure is of a transient nature as a result of incidental passage through a location where exposure levels may be above general population/uncontrolled limits (see below), as long as the exposed person has been made fully aware of the potential for exposure and can exercise control over his or her exposure by leaving the area or by some other appropriate means.

Additional details can be found in FCC OET 65.

CALCULATIONS

Calculations were done for the proposed T-Mobile Wireless antenna facility located at **50 Youngs Apple Orchard Road, North Branford, CT**, using the equipment information listed below. All calculations were performed per the specifications under FCC OET 65. Since T-Mobile is proposing highly focused directional panel antennas, which project most of the emitted energy out toward the horizon, all calculations were performed assuming a lobe representing the maximum gain of the antenna per the antenna manufactures supplied specifications, minus 10 dB, was focused at the base of the tower. For this report the sample point is the top of a 6 foot person standing at the base of the tower.

For all calculations, all equipment was calculated using the following assumptions:

- 1) 2 GSM channels (PCS Band - 1900 MHz) were considered for each sector of the proposed installation. These Channels have a transmit power of 30 Watts per Channel
- 2) 2 UMTS channels (PCS Band - 1900 MHz) were considered for each sector of the proposed installation. These Channels have a transmit power of 30 Watts per Channel.
- 3) 2 LTE channels (PCS Band - 1900 MHz) were considered for each sector of the proposed installation. These Channels have a transmit power of 60 Watts per Channel.
- 4) 1 LTE channel (700 MHz Band) was considered for each sector of the proposed installation. This channel has a transmit power of 30 Watts.
- 5) All radios at the proposed installation were considered to be running at full power and were uncombined in their RF transmissions paths per carrier prescribed configuration. Per FCC OET Bulletin No. 65 - Edition 97-01 recommendations to achieve the maximum anticipated value at each sample point, all power levels emitting from the proposed antenna installation are increased by a factor of 2.56 to account for possible in-phase reflections from the surrounding environment. This is rarely the case, and if so, is never continuous.

- 6) For the following calculations the sample point was the top of a six foot person standing at the base of the tower. The maximum gain of the antenna per the antenna manufactures supplied specifications minus 10 dB was used in this direction. This value is a very conservative estimate as gain reductions for these particular antennas are typically much higher in this direction.
- 7) The antennas used in this modeling are the **EMS RR90_17_02DP** for 1900 MHz (PCS) channels and the **Commscope LNX-6515DS-VTM** for 700 MHz channels. This is based on feedback from the carrier with regards to anticipated antenna selection. The **EMS RR90_17_02DP** has a maximum gain of **14.4 dBd** at its main lobe. The **Commscope LNX-6515DS-VTM** has a maximum gain of **14.6 dBd** at its main lobe. The maximum gain of the antenna per the antenna manufactures supplied specifications, minus 10 dB, was used for all calculations. This value is a very conservative estimate as gain reductions for these particular antennas are typically much higher in this direction.
- 8) The antenna mounting height centerline of the proposed antennas is **94 feet** above ground level (AGL).
- 9) Emissions values for additional carriers were taken from the Connecticut Siting Council active database. Values in this database are provided by the individual carriers themselves.

All calculations were done with respect to uncontrolled / general public threshold limits.

T-Mobile Site Inventory and Power Data

Sector:	A	Sector:	B	Sector:	C
Antenna #:	1	Antenna #:	1	Antenna #:	1
Make / Model:	EMS RR90_17_02DP	Make / Model:	EMS RR90_17_02DP	Make / Model:	EMS RR90_17_02DP
Gain:	14.4 dBd	Gain:	14.4 dBd	Gain:	14.4 dBd
Height (AGL):	94	Height (AGL):	94	Height (AGL):	94
Frequency Bands	1900 MHz(PCS)	Frequency Bands	1900 MHz(PCS)	Frequency Bands	1900 MHz(PCS)
Channel Count	6	Channel Count	6	# PCS Channels:	6
Total TX Power:	240	Total TX Power:	240	# AWS Channels:	240
ERP (W):	6,610.15	ERP (W):	6,610.15	ERP (W):	6,610.15
Antenna A1 MPE%	3.07	Antenna B1 MPE%	3.07	Antenna C1 MPE%	3.07
Antenna #:	2	Antenna #:	2	Antenna #:	2
Make / Model:	Commscope LNX- 6515DS-VTM	Make / Model:	Commscope LNX- 6515DS-VTM	Make / Model:	Commscope LNX- 6515DS-VTM
Gain:	14.6 dBd	Gain:	14.6 dBd	Gain:	14.6 dBd
Height (AGL):	94	Height (AGL):	94	Height (AGL):	94
Frequency Bands	700 Mhz	Frequency Bands	700 Mhz	Frequency Bands	700 Mhz
Channel Count	1	Channel Count	1	Channel Count	1
Total TX Power:	30	Total TX Power:	30	Total TX Power:	30
ERP (W):	865.21	ERP (W):	865.21	ERP (W):	865.21
Antenna A2 MPE%	0.86	Antenna B2 MPE%	0.86	Antenna C2 MPE%	0.86

Site Composite MPE %	
Carrier	MPE%
T-Mobile	11.79
Sprint	5.27 %
Site Total MPE %:	17.06 %

T-Mobile Sector 1 Total:	3.93 %
T-Mobile Sector 2 Total:	3.93 %
T-Mobile Sector 3 Total:	3.93 %
Site Total:	17.06 %

Summary

All calculations performed for this analysis yielded results that were **within** the allowable limits for general public exposure to RF Emissions.

The anticipated maximum composite contributions from the T-Mobile facility as well as the site composite emissions value with regards to compliance with FCC's allowable limits for general public exposure to RF Emissions are shown here:

T-Mobile Sector	Power Density Value (%)
Sector 1:	3.93 %
Sector 2:	3.93 %
Sector 3 :	3.93 %
T-Mobile Total:	11.79 %
Site Total:	17.06 %
Site Compliance Status:	COMPLIANT

The anticipated composite MPE value for this site assuming all carriers present is **17.06%** of the allowable FCC established general public limit sampled at the ground level. This is based upon values listed in the Connecticut Siting Council database for existing carrier emissions.

FCC guidelines state that if a site is found to be out of compliance (over allowable thresholds), that carriers over a 5% contribution to the composite value will require measures to bring the site into compliance. For this facility, the composite values calculated were well within the allowable 100% threshold standard per the federal government.



Scott Heffernan
RF Engineering Director

EBI Consulting
21 B Street
Burlington, MA 01803