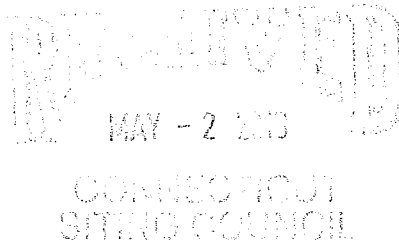


280 Trumbull Street
Hartford, CT 06103-3597
Main (860) 275-8200
Fax (860) 275-8299
kbaldwin@rc.com
Direct (860) 275-8345

Also admitted in Massachusetts

April 30, 2013

David Martin
Siting Analyst
Connecticut Siting Council
10 Franklin Square
New Britain, CT 06051



Re: **EM-VER-025-120919 – Cellco Partnership d/b/a Verizon Wireless
751 Higgins Road, Cheshire, Connecticut**

Dear Mr. Martin:

On October 16, 2012, the Siting Council acknowledged receipt of Cellco's notice of intent to modify its telecommunications facility at 751 Higgins Road in Cheshire. The modification involved the replacement of certain antennas and the installation of remote radio heads.

As a condition of the acknowledgement, Cellco was required to provide the Council with a letter stating that the recommendations specified in the structural report were implemented. Attached is a Tower Modification Certification Letter verifying that these conditions have been satisfied. All construction associated with these modifications has now been completed.

If you have any questions please do not hesitate to contact me or Rachel Mayo.

Sincerely,

Kenneth C. Baldwin

Attachment
Copy to:

Sandy M. Carter
Brian Ragozzine
Mark Gauger



Law Offices

BOSTON

PROVIDENCE

HARTFORD

NEW LONDON

STAMFORD

WHITE PLAINS

NEW YORK CITY

ALBANY

SARASOTA

www.rc.com

April 26, 2013

Mr. Mark Gauger
Verizon Wireless
99 East River Drive
East Hartford, Connecticut 06108

Re: Existing Telecommunications Facility Tower Modification Certification Letter

Project: Verizon ~ Cheshire
751 Higgins Road
Cheshire, CT

Tower Owner: AT&T Towers
5405 Windward Pkwy
Alpharetta, GA 30004

Engineer: GPD Group
1117 Perimeter Ctr W, Suite W303, Atlanta, GA 30338

Centek Project No.: 13008.CO15

Dear Mr. Gauger,

We are providing this "Existing Telecommunications Facility Tower Modification Certification Letter" with regard to the antenna upgrade by Verizon Wireless at the above referenced project.

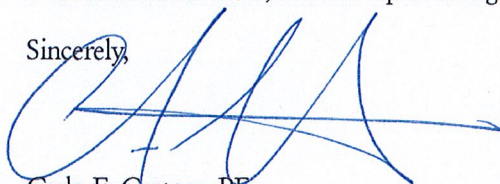
The following are the basis for substantiating compliance with the GPD Group Structural Analysis Report (GPD Project No. 2012856.72) dated August 13th, 2012:

- ☐ Review of the GPD Modification Design Drawings S-1 thru S-2 dated 07/25/2012 (GPD Project No. 2012856.05).
- ☐ Review of the Post Modification Report prepared by this office dated 04/23/2013 (Centek Engineering Project No. 12033.CO40).
- ☐ Review of the GPD Structural Analysis Report dated 08/13/2012 (GPD Project No. 2012856.72).
- ☐ Field observations by Centek personnel of the modifications and coax installations on 04/23/2013 which determined all coax lines and modifications were installed in general compliance with the recommendations of the structural analysis report prepared by GPD on 08/13/2012.

With the completed modifications, the tower and foundation do not exceed 100 percent of their post-construction structural rating.

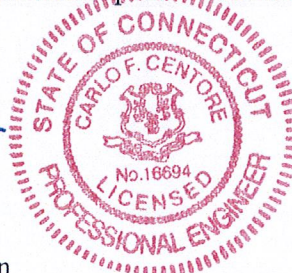
The work under this Contract has been reviewed and found, to the Engineer's best knowledge, information and belief, to be completed in general compliance with the documents referenced above.

Sincerely,



Carlo F. Centore, PE
Principal ~ Structural Engineer

CC: Rachel Mayo, Tim Parks, Aleksey Tyurin





STATE OF CONNECTICUT
CONNECTICUT SITING COUNCIL

Ten Franklin Square, New Britain, CT 06051

Phone: (860) 827-2935 Fax: (860) 827-2950

E-Mail: siting.council@ct.gov

www.ct.gov/csc

October 16, 2012

Kenneth C. Baldwin, Esq.
Robinson & Cole LLP
280 Trumbull Street
Hartford, CT 06103

RE: **EM-VER-025-120919** - Cellco Partnership d/b/a Verizon Wireless notice of intent to modify an existing telecommunications facility located at 751 Higgins Road, Cheshire, Connecticut.

Dear Attorney Baldwin:

The Connecticut Siting Council (Council) hereby acknowledges your notice to modify this existing telecommunications facility, pursuant to Section 16-50j-73 of the Regulations of Connecticut State Agencies with the following conditions:

- The proposed coax shall be installed and the modifications designed in GPD Project #: 2012856.05 shall have been implemented in accordance with the recommendations made in the Structural Analysis Report prepared by GPD Group dated August 13, 2012, and stamped by David Granger;
- Prior to antenna installation, a signed letter from a Professional Engineer duly licensed in the State of Connecticut shall be submitted to the Council to certify that the recommended modifications have been completed and the tower and foundation will not exceed 100 percent of the post-construction structural rating;
- Any deviation from the proposed modification as specified in this notice and supporting materials with Council shall render this acknowledgement invalid;
- Any material changes to this modification as proposed shall require the filing of a new notice with the Council;
- Not less than 45 days after completion of construction, the Council shall be notified in writing that construction has been completed;
- The validity of this action shall expire one year from the date of this letter; and
- The applicant may file a request for an extension of time beyond the one year deadline provided that such request is submitted to the Council not less than 60 days prior to the expiration;

The proposed modifications including the placement of all necessary equipment and shelters within the tower compound are to be implemented as specified here and in your notice dated September 18, 2012. The modifications are in compliance with the exception criteria in Section 16-50j-72 (b) of the Regulations of Connecticut State Agencies as changes to an existing facility site that would not increase tower height, extend the boundaries of the tower site, increase noise levels at the tower site boundary by six decibels, and increase the total radio frequencies electromagnetic radiation power density measured at the tower site boundary to or above the standard adopted by the State Department of Environmental Protection pursuant to General Statutes § 22a-162. This facility has also been carefully modeled to ensure that radio frequency emissions are conservatively below State and federal standards applicable to the frequencies now used on this tower.



This decision is under the exclusive jurisdiction of the Council. Please be advised that the validity of this action shall expire one year from the date of this letter. Any additional change to this facility will require explicit notice to this agency pursuant to Regulations of Connecticut State Agencies Section 16-50j-73. Such notice shall include all relevant information regarding the proposed change with cumulative worst-case modeling of radio frequency exposure at the closest point of uncontrolled access to the tower base, consistent with Federal Communications Commission, Office of Engineering and Technology, Bulletin 65. Thank you for your attention and cooperation.

Very truly yours,



Linda Roberts
Executive Director

LR/CDM/jbw

- c: The Honorable Timothy Slocum, Council Chairman, Town of Cheshire
Michael A. Milone, Town Manager, Town of Cheshire
William S. Voelker, AICP, Town Planner, Town of Cheshire
Christopher B. Fisher, Esq., AT&T



STATE OF CONNECTICUT
CONNECTICUT SITING COUNCIL

Ten Franklin Square, New Britain, CT 06051

Phone: (860) 827-2935 Fax: (860) 827-2950

E-Mail: siting.council@ct.gov

www.ct.gov/csc

September 20, 2012

The Honorable Timothy Slocum
Council Chairman
Town of Cheshire
Town Hall
84 South Main Street
Cheshire, CT 06410

RE: **EM-VER-025-120919** - Cellco Partnership d/b/a Verizon Wireless notice of intent to modify an existing telecommunications facility located at 751 Higgins Road, Cheshire, Connecticut.

Dear Council Chairman Slocum:

The Connecticut Siting Council (Council) received this request to modify an existing telecommunications facility, pursuant to Regulations of Connecticut State Agencies Section 16-50j-72.

If you have any questions or comments regarding this proposal, please call me or inform the Council by October 4, 2012.

Thank you for your cooperation and consideration.

Very truly yours,

Linda Roberts
Executive Director

LR/jbw

Enclosure: Notice of Intent

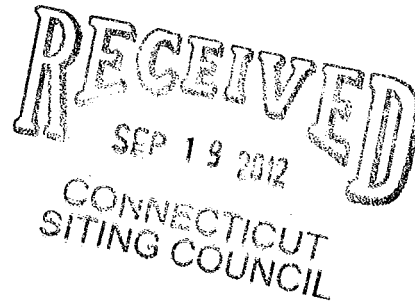
c: Michael A. Milone, Town Manager, Town of Cheshire
William S. Voelker, AICP, Town Planner, Town of Cheshire

280 Trumbull Street
Hartford, CT 06103-3597
Main (860) 275-8200
Fax (860) 275-8299
kbaldwin@rc.com
Direct (860) 275-8345

Also admitted in Massachusetts

September 18, 2012

Linda Roberts
Executive Director
Connecticut Siting Council
10 Franklin Square
New Britain, CT 06051



Re: **Notice of Exempt Modification – Antenna Swap**
751 Higgins Road, Cheshire, Connecticut

Dear Ms. Roberts:

Cellco Partnership d/b/a Verizon Wireless ("Cellco") currently maintains twelve (12) wireless telecommunications antennas at the 252-foot level on an existing 250-foot tower at the above-referenced address. The tower and underlying property are owned by AT&T. Cellco's use of the tower was approved by the Council in 1993. Cellco now intends to replace six (6) of its existing antennas with three (3) model BXA-171063-12BF PCS antennas and three (3) model BXA-70063-6CF LTE antennas, all at the same 252-foot level. Cellco also intend to install three (3) remote radio heads behind its LTE antennas. Attached behind Tab 1 are the specifications for the replacement antennas and remote radio heads.

Please accept this letter as notification pursuant to R.C.S.A. § 16-50j-73, for construction that constitutes an exempt modification pursuant to R.C.S.A. § 16-50j-72(b)(2). In accordance with R.C.S.A. § 16-50j-73, a copy of this letter is being sent to Timothy Slocum, Mayor of the Town of Cheshire.

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

1. The proposed modifications will not result in an increase in the height of the existing tower. Cellco's replacement antennas and remote radio heads will be located at the 252-foot level on the existing 250-foot tower.



Law Offices

BOSTON

PROVIDENCE

HARTFORD

NEW LONDON

STAMFORD

WHITE PLAINS

NEW YORK CITY

ALBANY

SARASOTA

www.rc.com

11881658-v1

Linda Roberts
September 18, 2012
Page 2

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

3. The proposed modifications will not increase noise levels at the facility by six decibels or more.

4. The operation of the replacement antennas will not increase radio frequency (RF) emissions at the facility to a level at or above the Federal Communications Commission (FCC) adopted safety standard. A cumulative General Power Density table for Cellco's modified facility is included behind Tab 2.

Also attached is a Structural Analysis confirming that the tower and foundation can support Cellco's proposed modifications. (See Tab 3).

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

Sincerely,



Kenneth C. Baldwin

Enclosures

Copy to:

Timothy Slocum, Cheshire Mayor
Sandy Carter

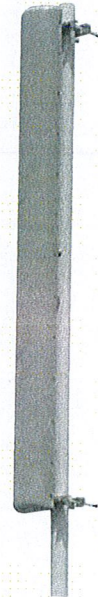


BXA-171063-12BF-EDIN-X

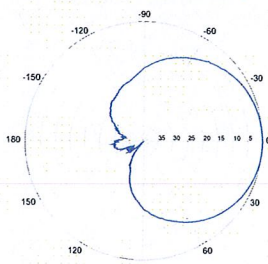
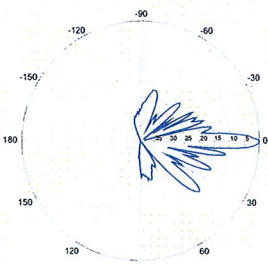
Replace "X" with desired electrical downtilt.

X-Pol | FET Panel | 63° | 19.0 dBi

Electrical Characteristics	1710-2170 MHz		
Frequency bands	1710-1880 MHz	1850-1990 MHz	1920-2170 MHz
Polarization	±45°	±45°	±45°
Horizontal beamwidth	68°	65°	60°
Vertical beamwidth	4.5°	4.5°	4.5°
Gain	16.1 dBd / 18.2 dBi	16.5 dBd / 18.6 dBi	16.9 dBd / 19.0 dBi
Electrical downtilt (X)	0, 2, 5		
Impedance	50Ω		
VSWR	≤1.5:1		
First upper sidelobe	< -17 dB		
Front-to-back ratio	> 30 dB		
In-band isolation	> 28 dB		
IM3 (20W carrier)	< -150 dBc		
Input power	300 W		
Lightning protection	Direct Ground		
Connector(s)	2 Ports / EDIN / Female / Bottom		
Operating temperature	-40° to +60° C / -40° to +140° F		
Mechanical Characteristics			
Dimensions Length x Width x Depth	1820 x 154 x 105 mm	71.7 x 6.1 x 4.1 in	
Depth with z-brackets	133 mm	5.2 in	
Weight without mounting brackets	6.8 kg	15 lbs	
Survival wind speed	> 201 km/hr	> 125 mph	
Wind area	Front: 0.28 m ² Side: 0.19 m ²	Front: 3.1 ft ² Side: 2.1 ft ²	
Wind load @ 161 km/hr (100 mph)	Front: 460 N Side: 304 N	Front: 103 lbf Side: 68 lbf	
Mounting Options	Part Number	Fits Pipe Diameter	Weight
2-Point Mounting Bracket Kit	26799997	50-102 mm 2.0-4.0 in	2.3 kg 5 lbs
2-Point Mounting & Downtilt Bracket Kit	26799999	50-102 mm 2.0-4.0 in	3.6 kg 8 lbs
Concealment Configurations	For concealment configurations, order BXA-171063-12BF-EDIN-X-FP		

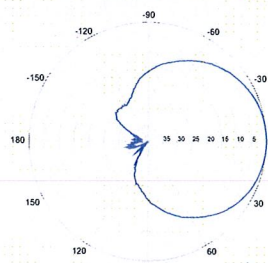
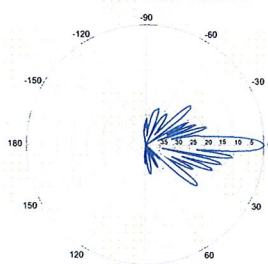


BXA-171063-12BF-EDIN-X

Horizontal | 1710-1880 MHz
BXA-171063-12BF-EDIN-0

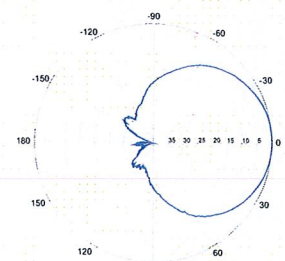
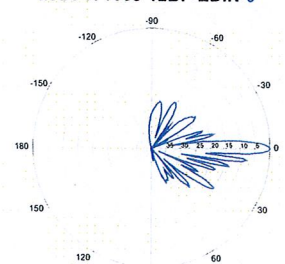
0° | Vertical | 1710-1880 MHz

BXA-171063-12BF-EDIN-X

Horizontal | 1850-1990 MHz
BXA-171063-12BF-EDIN-0

0° | Vertical | 1850-1990 MHz

BXA-171063-12BF-EDIN-X

Horizontal | 1920-2170 MHz
BXA-171063-12BF-EDIN-0

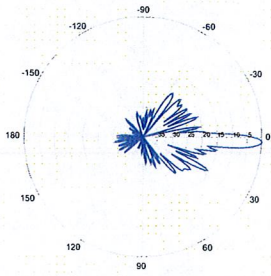
0° | Vertical | 1920-2170 MHz

Quoted performance parameters are provided to offer typical or range values only and may vary as a result of normal manufacturing and operational conditions. Extreme operational conditions and/or stress on structural supports is beyond our control. Such conditions may result in damage to this product. Improvements to product may be made without notice.

BXA-171063-12BF-EDIN-X

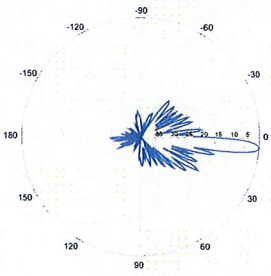
X-Pol | FET Panel | 63° | 19.0 dBi

BXA-171063-12BF-EDIN-2



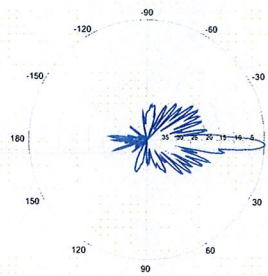
2° | Vertical | 1710-1880 MHz

BXA-171063-12BF-EDIN-5



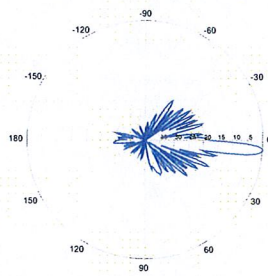
5° | Vertical | 1710-1880 MHz

BXA-171063-12BF-EDIN-2



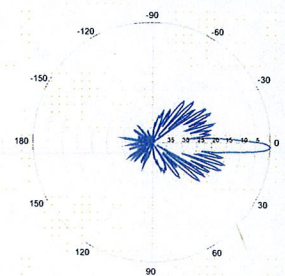
2° | Vertical | 1850-1990 MHz

BXA-171063-12BF-EDIN-5



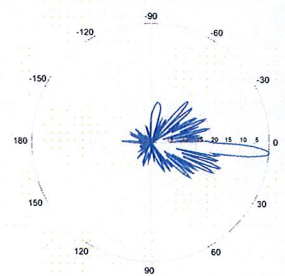
5° | Vertical | 1850-1990 MHz

BXA-171063-12BF-EDIN-2



2° | Vertical | 1920-2170 MHz

BXA-171063-12BF-EDIN-5



5° | Vertical | 1920-2170 MHz

Quoted performance parameters are provided to offer typical or range values only and may vary as a result of normal manufacturing and operational conditions. Extreme operational conditions and/or stress on structural supports is beyond our control. Such conditions may result in damage to this product. Improvements to product may be made without notice.

BXA-70063-6CF-EDIN-X

X-Pol | FET Panel | 63° | 14.5 dBd

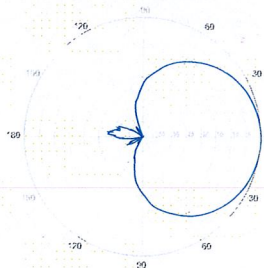
Replace "X" with desired electrical downtilt.

Antenna is also available with NE connector(s). Replace "EDIN" with "NE" in the model number when ordering.

Electrical Characteristics	696-900 MHz					
Frequency bands	696-806 MHz		806-900 MHz			
Polarization	±45°					
Horizontal beamwidth	65°		63°			
Vertical beamwidth	13°		11°			
Gain	14.0 dBd (16.1 dBi)		14.5 dBd (16.6 dBi)			
Electrical downtilt (X)	0, 2, 3, 4, 5, 6, 8, 10					
Impedance	50Ω					
VSWR	≤1.35:1					
Upper sidelobe suppression (0°)	-18.3 dB		-18.2 dB			
Front-to-back ratio (+/-30°)	-33.4 dB		-36.3 dB			
Null fill	5% (-26.02 dB)					
Isolation between ports	< -25 dB					
Input power with EDIN connectors	500 W					
Input power with NE connectors	300 W					
Lightning protection	Direct Ground					
Connector(s)	2 Ports / EDIN or NE / Female / Center (Back)					
Mechanical Characteristics						
Dimensions Length x Width x Depth	1804 x 285 x 132 mm		71.0 x 11.2 x 5.2 in			
Depth with z-brackets	172 mm		6.8 in			
Weight without mounting brackets	7.9 kg		17 lbs			
Survival wind speed	> 201 km/hr		> 125 mph			
Wind area	Front: 0.51 m ²	Side: 0.24 m ²	Front: 5.5 ft ²	Side: 2.6 ft ²		
Wind load @ 161 km/hr (100 mph)	Front: 759 N	Side: 391 N	Front: 169 lbf	Side: 89 lbf		
Mounting Options	Part Number		Fits Pipe Diameter		Weight	
3-Point Mounting & Downtilt Bracket Kit	36210008		40-115 mm 1.57-4.5 in		6.9 kg 15.2 lbs	
Concealment Configurations	For concealment configurations, order BXA-70063-6CF-EDIN-X-FP					

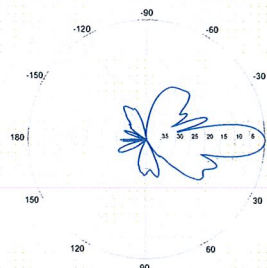


BXA-70063-6CF-EDIN-X



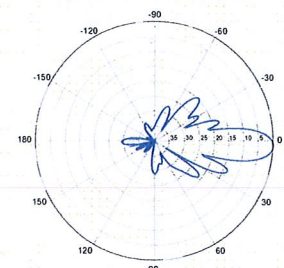
Horizontal | 750 MHz

BXA-70063-6CF-EDIN-0

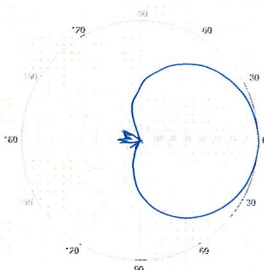


0° | Vertical | 750 MHz

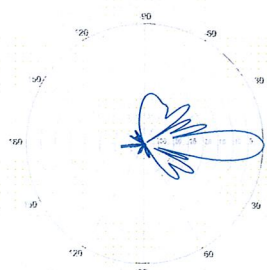
BXA-70063-6CF-EDIN-2



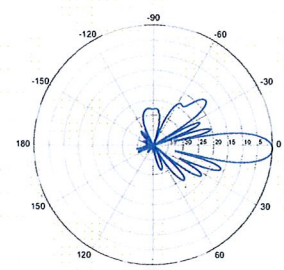
2° | Vertical | 750 MHz



Horizontal | 850 MHz



0° | Vertical | 850 MHz



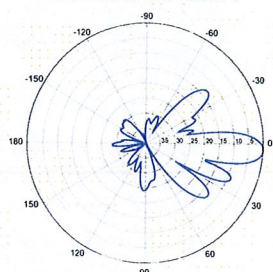
2° | Vertical | 850 MHz

Quoted performance parameters are provided to offer typical or range values only and may vary as a result of normal manufacturing and operational conditions. Extreme operational conditions and/or stress on structural supports is beyond our control. Such conditions may result in damage to this product. Improvements to product may be made without notice.

BXA-70063-6CF-EDIN-X

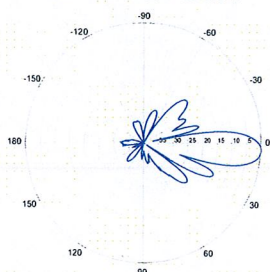
X-Pol | FET Panel | 63° | 14.5 dBd

BXA-70063-6CF-EDIN-3



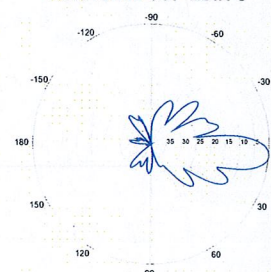
3° | Vertical | 750 MHz

BXA-70063-6CF-EDIN-4

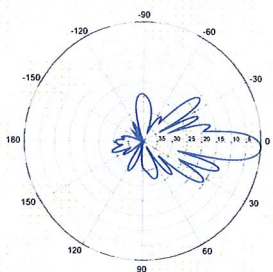


4° | Vertical | 750 MHz

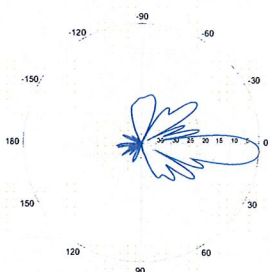
BXA-70063-6CF-EDIN-5



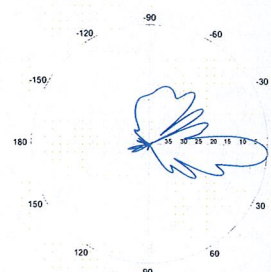
5° | Vertical | 750 MHz



3° | Vertical | 850 MHz

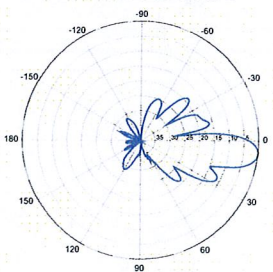


4° | Vertical | 850 MHz



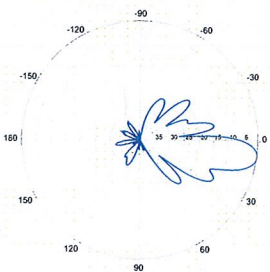
5° | Vertical | 850 MHz

BXA-70063-6CF-EDIN-6



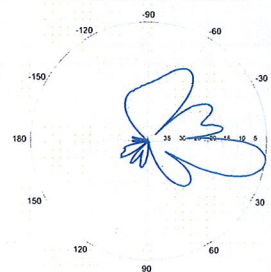
6° | Vertical | 750 MHz

BXA-70063-6CF-EDIN-8

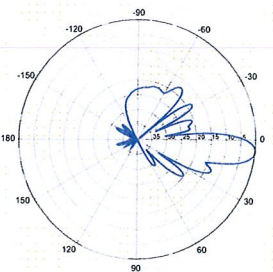


8° | Vertical | 750 MHz

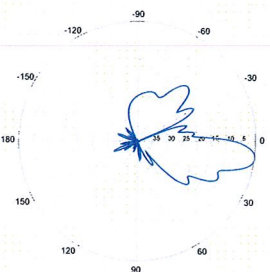
BXA-70063-6CF-EDIN-10



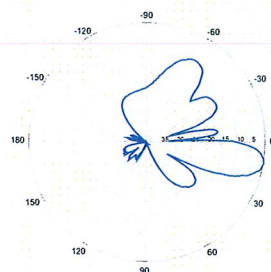
10° | Vertical | 750 MHz



6° | Vertical | 850 MHz



8° | Vertical | 850 MHz



10° | Vertical | 850 MHz

Quoted performance parameters are provided to offer typical or range values only and may vary as a result of normal manufacturing and operational conditions. Extreme operational conditions and/or stress on structural supports is beyond our control. Such conditions may result in damage to this product. Improvements to product may be made without notice.

Functional description

General description

The 2 x 40W 700MHz RRH specified here supports 3GPP E-UTRAN Upper Band 13 (List 1). The RRH includes an amplifier with two transmitters, four receivers, and filter all within one chassis. The RRH supports 2 x 2 MIMO and 2 x 4 MIMO within one module. RRH units can be combined to support 4 x 4 MIMO. The nominal transmit power is 40 Watts at the filter output for each of the two transmit paths. The RRH supports one carrier at up to 10 MHz instantaneous bandwidth. The RRH is a zero footprint, weatherized, self-contained module that relies on natural convection cooling (no fans). The RRH is light weight, with high power efficiency. The interfaces to the RRH include DC power, two antenna connections, two CPRI interface ports, two auxiliary RX input/output ports, two TX monitor ports, one Ethernet port for on-site configuration, an ALD port to support Antenna Line Devices, two user alarm ports, and a serial port for troubleshooting purposes. The two CPRI connections can be configured to support either metallic or optical interfaces. Up to 6 RRH units can be daisy chained. The RRH requires no field calibration, and supports antenna sharing applications. The RRH is field replaceable, but not field repairable. The RRH shall be compliant with all applicable 3GPP, 3GPP2, FCC, and regional requirements.

Product capabilities

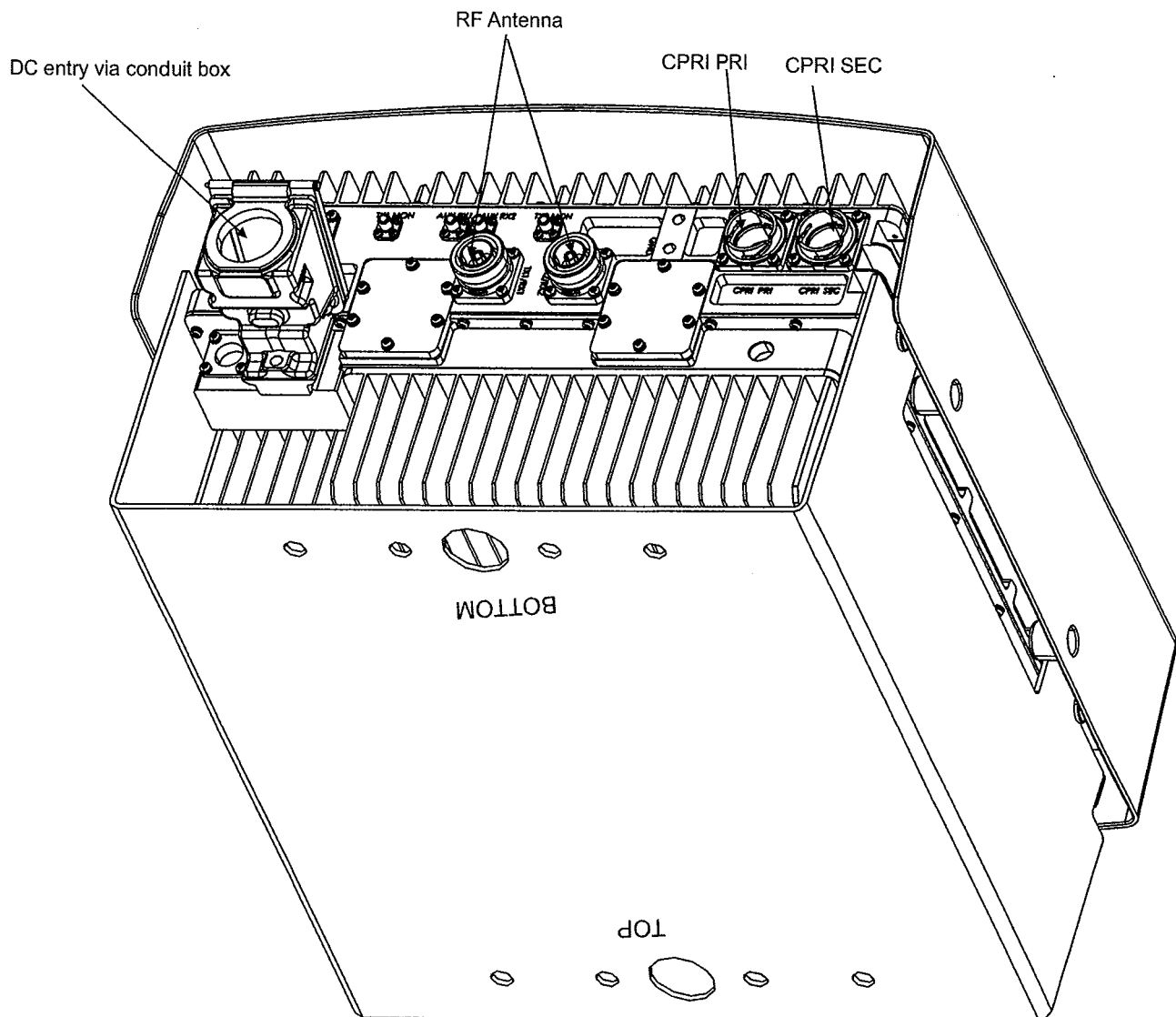
The product capabilities in this release are:

- Outdoor, -48 V DC
- Transmit Power 2 Tx at 40W each
- 700 MHz
- 1 sector, 2x2 MIMO per RRH
- Supports up to six user alarms for each RRH
- Support one LTE carrier at 10 MHz bandwidth
- RRH Mounting:
 - pole
 - wall
 - Floor stand
- Front access installation and service
- Bottom I/O panel access

RRH description

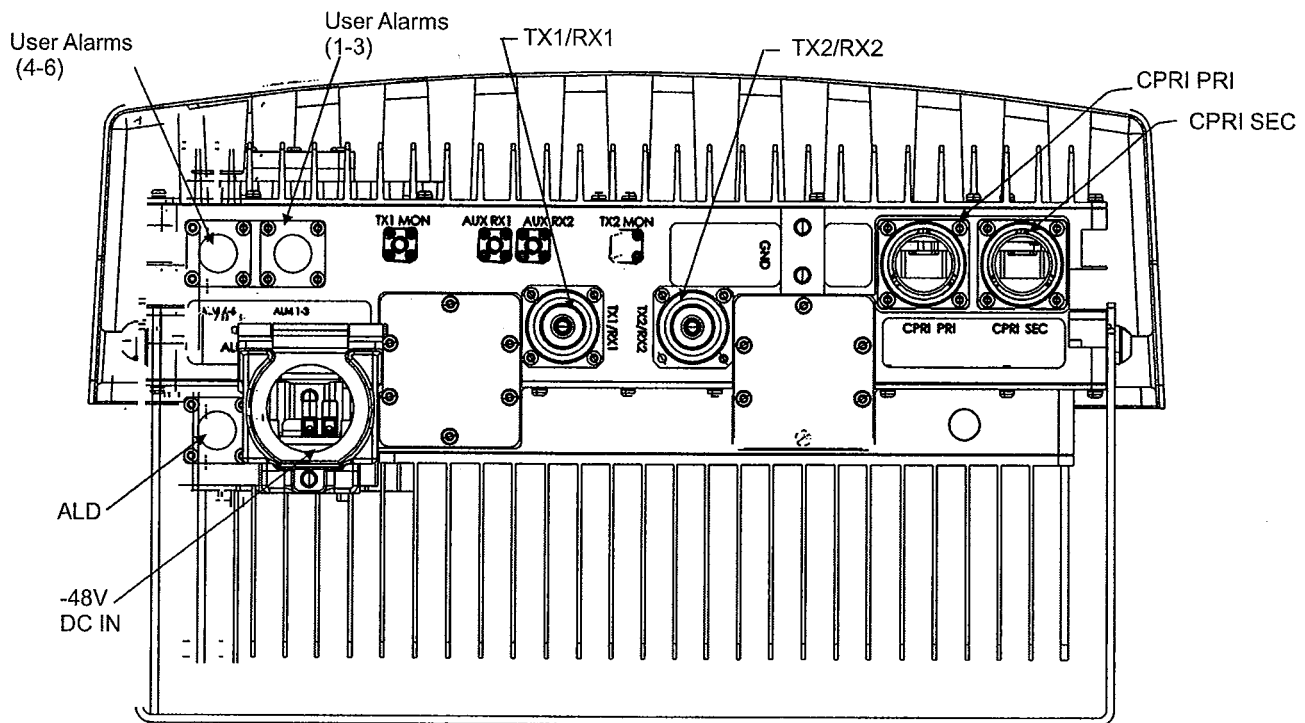
RRH bottom-view (external)

The following figure shows the bottom external view of the 700 MHz RRH.



RRH cable interfaces (bottom view)

The following figure shows the cable interfaces on the bottom of the RRH.



Cable interfaces

At the bottom of the RRH, the following cable interface points are found:

- *-48V DC power connector:*
- *Two (2) Optical connectors:* One optical interface to connect the RRH and the second optical interface to support daisy-chain
- *Two (2) External Alarm Connectors:* (8-pin Circular Male connector)
- *One ALD (RS485) Connector:* (8-pin Circular Din Female connector)
- *Two (2) RF Antennas* (7/16 DIN coaxial female connector)
- *Two (2) SMA connectors:* (For testing TX main and TX Diversity)

The top of the RRH allows access for connecting RF cables.

RRH weights and dimensions

Weights and dimensions

This topic covers the RRH weights and dimensions.

RRH weights and dimensions

The following table provides weights and dimensions for the RRHs.

RRH configuration	Estimated maximum shipped weight including pallet kg (lb.)	Estimated maximum installed weight with mounting brackets kg (lb.)	Overall dimensions width x depth x height mm (inches)
RRH 700 MHz with solar shield and mounting bracket	28 (62)	23 (51)	426 x 257 x 498 (17 x 10 x 20)

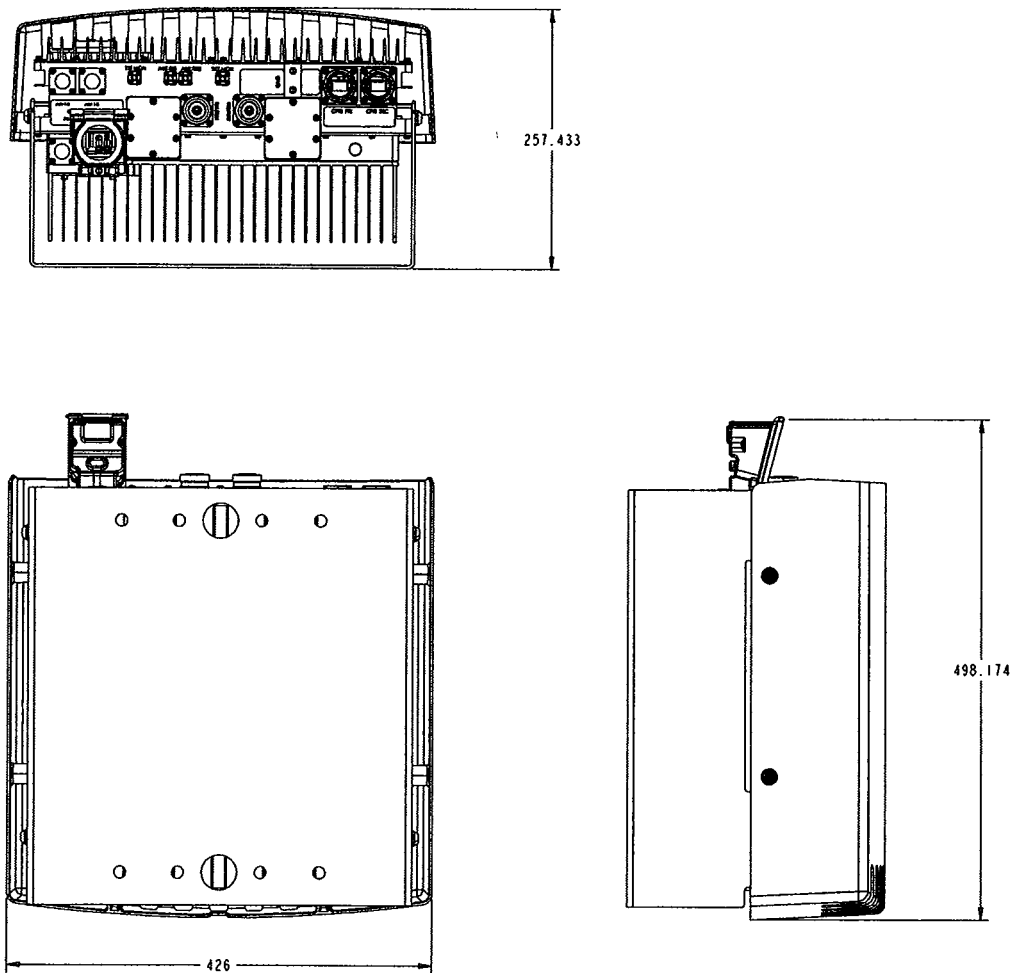
Miscellaneous hardware weights

The following table provides approximate weights for other miscellaneous hardware.

Item	Weight kg (lb.)
Shipping box	5 (11)
Wall bracket (RRH)	4.1 (9)
Pole brackets (2) (standard)	2.73 (6)
Pole Bands (2)	1.8 (4)

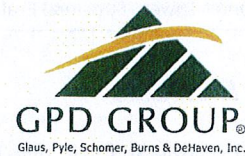
RRH overall dimensions

The following figure shows the overall dimensions for the RRH.





AT&T Towers
5405 Windward Pkwy
Alpharetta, GA 30004
(770) 708-6100



Kevin Clements
1117 Perimeter Ctr W, Suite W303
Atlanta, GA 30338
(678) 781-5061
kclements@gpdgroup.com

GPD# 2012856.72
August 13, 2012

STRUCTURAL ANALYSIS REPORT WITH

AT&T DESIGNATION: **Site USID:** **TAG0053**
 Site FA: **10136365**
 Site Name: **CHESHIRE**
 AT&T Project: **Wireline Verizon Modification 5-10-2012**

ANALYSIS CRITERIA: **Codes:** **TIA/EIA-222-F, 2003 IBC & ASCE 7-05**
 85-mph fastest mile with 0" ice
 38-mph fastest mile with 3/4" ice

SITE DATA: **751 Higgins Road, Cheshire, CT 06410, New Haven County**
 Latitude 41° 29' 14.999" N, Longitude 72° 55' 46.999" W
 Market: MA/RI/VT/NH/ME/CT
 250' Radio Relay Towers Self Support Tower

Mr. Martin Jelleme,

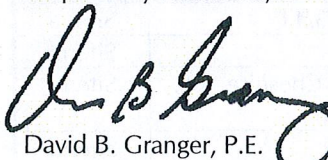
GPD is pleased to submit this Structural Analysis Report to determine the structural integrity of the aforementioned tower. The purpose of the analysis is to determine the suitability of the tower with the existing and proposed loading configuration detailed in the analysis report.

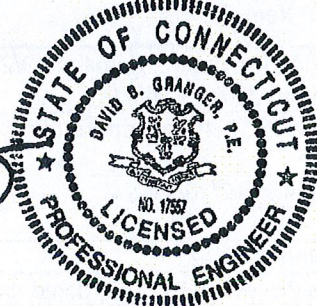
Analysis Results

Tower Stress Level with Proposed Equipment:	81.5%	Pass
Building Pedestal Ratio with Proposed Equipment:	16.3%	Pass

We at GPD appreciate the opportunity of providing our continuing professional services to you and AT&T. If you have any questions or need further assistance on this or any other projects please do not hesitate to call.

Respectfully submitted,


David B. Granger, P.E.
Connecticut #: 17557



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 Verizon to AT&T Mobility. This report was commissioned by Mr. Martin Jelleme of AT&T Mobility.

This analysis is limited to the above grade tower structure and supporting building pedestals. A detailed analysis of the below grade building structure is beyond the scope of this report; however, based on a comparison of the existing base reactions and the base reactions from the existing, proposed, and reserved loading case the below grade building structure will see a loading increase less than 5% in capacity. Therefore the below grade building structure will be sufficient to support the proposed loading per section 3403.2 of the 2003 IBC.

The proposed coax shall be installed on Face D in order for the analysis results to be valid. See Appendix C for the proposed coax layout.

Modifications designed by GPD (Project #: 2012856.05, dated 7/25/12) have been considered in this analysis.

TOWER SUMMARY AND RESULTS

Member	Capacity	Results
Legs	81.5%	Pass
Leg Bolts	32.6%	Pass
Diagonals	61.2%	Pass
Horizontals	62.7%	Pass
Redundant Members	80.9%	Pass
Member Bolts	45.1%	Pass
Anchor Rods	34.3%	Pass
Building Pedestals	16.3%	Pass

ANALYSIS METHOD

RISA 3D (Version 9.1.1) and TNX Tower (Version 6.0.4.0), 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 solely based on this information and is being completed without the benefit of a detailed site visit by GPD.

DOCUMENTS PROVIDED

Document	Remarks	Source
Preliminary Tower Summary	AT&T Internet Services Co-location document, uploaded 9/23/11	Siterra
Site Lease Application	AT&T Internet Services Application, dated 3/16/11	Siterra
Original Building Drawings	American Telephone & Telegraph Co. L-4 Junction Building, Cheshire, CT, dated 12/1/65	Siterra
Foundation Exploration	FDH Project #: 11-12049E-N1, dated 12/20/11	Siterra
Geotechnical Report	Not Provided	N/A
Previous Structural Analysis	GPD Project #: 2012856.05, dated 7/25/12	Siterra
Tower Mapping	Tower Engineering Professionals Project #: 111343, dated 4/8/11	Siterra
Modification Drawings	GPD Project #: 2012856.05, dated 7/25/12	Siterra

ASSUMPTIONS

This rigorous 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. Foundations are properly designed and constructed to resist the original design loads indicated in the documents provided.
7. The tower and structures have been properly maintained in accordance with TIA Standards and/or with manufacturer's specifications.
8. All welds and connections are assumed to develop at least the member capacity unless determined otherwise and explicitly stated in this report.
9. All prior structural modifications are assumed to be as per data supplied/available and to have been properly installed.
10. Loading interpreted from photos is accurate to $\pm 5'$ AGL, antenna size accurate to ± 3.3 sf, and coax equal to the number of existing antennas without reserve.
11. All existing loading was obtained from the tower mapping by Tower Engineering Professionals Project #: 111343, dated 4/8/11, site photos and the provided preliminary tower summary and is assumed to be accurate.
12. This analysis is limited to the above grade tower structure and supporting building pedestals. A detailed analysis of the below grade building structure is beyond the scope of this report; however, based on a comparison of the existing base reactions and the base reactions from the existing, proposed, and reserved loading case the below grade building structure will see a loading increase less than 5% in capacity. Therefore the below grade building structure will be sufficient to support the proposed loading per section 3403.2 of the 2003 IBC.
13. The proposed coax shall be installed on Face D in order for the analysis results to be valid. See Appendix C for the proposed coax layout.
14. The existing Verizon antenna model numbers found in the provided site lease application were found to vary from the existing antennas found in the tower mapping by Tower Engineering Professionals Project #: 111343, dated 4/8/11 and the previous analysis by GPD Project #: 2012856.05, dated 7/25/12. The existing Verizon antennas have been modeled based on the existing loading from the previous SA which was found to correspond with the final antenna loading in the provided site lease application.

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 not performed a site visit to the tower to verify the member sizes or 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 Rigorous Structural Analysis are limited to a computer analysis of the tower structure and theoretical capacity of its main structural members. All tower components have been assumed to only resist dead loads when no other loads are applied. 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.

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 feasibility 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 specified code recommended 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.

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 St Akron, OH 44311 Phone: (330) 572-2100 FAX: (330) 572-2102	Job	TAG0053 CHESHIRE	Page	1 of 7
	Project	2012856.72	Date	18:52:10 08/13/12
	Client	AT&T Mobility	Designed by	awestrum

Tower Input Data

The main tower is a 4x free standing tower with an overall height of 250.00 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 33.50 ft at the top and 37.00 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 density of 56 pcf.

A wind speed of 38 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, feedline supports, and appurtenance mounts are not considered.

Feed Line/Linear Appurtenances - Entered As Round Or Flat

Description	Face or Leg	Allow Shield	Component Type	Placement ft	Face Offset in	Lateral Offset (Frac FW)	#	# Per Row	Clear Spacing in	Width or Diameter in	Perimeter in	Weight plf
LDF7-50A (1-5/8 FOAM)	B	Yes	Ar (CfAe)	170.00 - 8.00	-4.0000	0.45	12	6	1.0000	1.9800		0.82
RET Cable	B	Yes	Ar (CfAe)	170.00 - 8.00	-4.0000	0.42	6	2	0.4400	0.4400		0.08
LDF7-50A (1-5/8 FOAM)	B	Yes	Ar (CfAe)	212.00 - 37.00	0.0000	0.45	4	4	1.0000	1.9800		0.82
1" Rigid Conduit	C	Yes	Ar (CfAe)	20.00 - 8.00	0.0000	-0.45	11	11	1.0000	1.0000		0.50
1" Rigid Conduit	C	Yes	Ar (CfAe)	30.00 - 20.00	0.0000	-0.45	7	7	1.0000	1.0000		0.50
1" Rigid Conduit	C	Yes	Ar (CfAe)	37.00 - 30.00	0.0000	-0.45	6	6	1.0000	1.0000		0.50
LDF7-50A (1-5/8 FOAM)	C	Yes	Ar (CfAe)	207.00 - 8.00	0.0000	-0.35	1	1	1.0000	1.9800		0.82
LDF7-50A (1-5/8 FOAM)	C	Yes	Ar (CfAe)	212.00 - 37.00	2.0000	-0.45	8	8	1.0000	1.9800		0.82
RET Cable	C	Yes	Ar (CfAe)	212.00 - 37.00	2.0000	-0.42	1	1	0.4400	0.4400		0.08
Power Cable (1/2")	C	Yes	Ar (CfAe)	250.00 - 8.00	0.0000	0.44	1	1	0.6300	0.6300		0.15
1-3/4" Rigid Conduit	C	Yes	Ar (CfAe)	250.00 - 8.00	0.0000	0.46	1	1	1.7500	1.7500		1.00
1/2" cable	D	Yes	Ar (CfAe)	36.50 - 8.00	0.0000	0.04	1	1	0.5000	0.5000		5.00
1/2" cable	D	Yes	Ar (CfAe)	44.50 - 8.00	0.0000	-0.04	1	1	0.5000	0.5000		5.00
LDF5-50A (7/8 FOAM)	D	Yes	Ar (CfAe)	169.00 - 8.00	8.0000	0.04	3	3	1.0000	1.0900		0.33
LDF5-50A (7/8 FOAM)	D	Yes	Ar (CfAe)	188.00 - 169.00	8.0000	0.04	2	2	1.0000	1.0900		0.33
LDF7-50A (1-5/8 FOAM)	D	Yes	Ar (CfAe)	200.00 - 8.00	0.0000	0.45	9	9	1.0000	1.9800		0.82
LDF7-50A (1-5/8 FOAM)	D	Yes	Ar (CfAe)	212.00 - 200.00	0.0000	0.45	6	6	1.0000	1.9800		0.82

tnxTower GPD Group 520 South Main St Akron, OH 44311 Phone: (330) 572-2100 FAX: (330) 572-2102	Job	TAG0053 CHESHIRE	Page	2 of 7
	Project	2012856.72	Date	18:52:10 08/13/12
	Client	AT&T Mobility	Designed by	awestrump

Description	Face or Leg	Allow Shield	Component Type	Placement ft	Face Offset in	Lateral Offset (Frac FW)	#	# Per Row	Clear Spacing in	Width or Diameter in	Perimeter in	Weight plf
LDF7-50A (1-5/8 FOAM)	D	Yes	Ar (CfAe)	225.00 - 8.00	0.0000	0.05	3	1	1.0000	1.9800		0.82
LDF7-50A (1-5/8 FOAM)	D	Yes	Ar (CfAe)	225.00 - 8.00	0.0000	-0.05	3	1	1.0000	1.9800		0.82
LDF7-50A (1-5/8 FOAM)	D	Yes	Ar (CfAe)	240.00 - 8.00	0.0000	0	6	6	1.0000	1.9800		0.82
LDF7-50A (1-5/8 FOAM)	D	Yes	Ar (CfAe)	250.00 - 240.00	0.0000	0	2	2	1.0000	1.9800		0.82
LDF6-50A (1-1/4 FOAM)	D	Yes	Ar (CfAe)	250.00 - 8.00	0.0000	0.02	5	3	1.0000	1.5500		0.66
LDF7-50A (1-5/8 FOAM)	D	Yes	Ar (CfAe)	250.00 - 8.00	6.0000	0	13	6	1.0000	1.9800		0.82
1" Line	D	Yes	Ar (CfAe)	250.00 - 8.00	6.0000	0	1	1	1.0000	1.0000		2.00
LDF4.5-50 (5/8 FOAM)	D	Yes	Ar (CfAe)	85.00 - 8.00	3.0000	0	7	7	0.8700	0.8700		0.15
Climbing Ladder	C	No	Af (Leg)	250.00 - 8.00	0.0000	0.1	1	1	0.2500	0.0000	0.5000	7.90
Feedline Ladder (Af)	B	Yes	Af (CfAe)	212.00 - 8.00	-4.0000	0.45	1	1	3.0000	3.0000	12.0000	8.40
Feedline Ladder (Af)	C	Yes	Af (CfAe)	212.00 - 8.00	2.0000	-0.42	1	1	3.0000	3.0000	12.0000	8.40
Feedline Ladder (Af)	D	Yes	Af (CfAe)	250.00 - 8.00	0.0000	0	1	1	3.0000	3.0000	12.0000	8.40
Feedline Ladder (Af)	D	Yes	Af (CfAe)	209.00 - 8.00	0.0000	0.43	1	1	3.0000	3.0000	12.0000	8.40

Discrete Tower Loads

Description	Face or Leg	Offset Type	Offsets: Horz Lateral Vert ft ft ft	Azimuth Adjustment °	Placement ft		C _A A _A Front ft ²	C _A A _A Side ft ²	Weight lb
Tower Top Platform	C	None		0.0000	250.00	No Ice	85.00	85.00	4425.00
						1/2" Ice	97.00	97.00	5752.50
						1" Ice	110.00	110.00	7080.00
DUO1417-8686 w/Mount Pipe	B	From Face	2.00 0.00 4.00	0.0000	250.00	No Ice	7.25	5.86	45.85
						1/2" Ice	7.96	6.96	103.71
						1" Ice	8.57	7.78	172.26
DUO1417-8686 w/Mount Pipe	D	From Face	2.00 0.00 4.00	0.0000	250.00	No Ice	7.25	5.86	45.85
						1/2" Ice	7.96	6.96	103.71
						1" Ice	8.57	7.78	172.26
1284315 TMA	B	From Face	2.00 0.00 4.00	0.0000	250.00	No Ice	0.23	0.12	1.20
						1/2" Ice	0.30	0.17	3.05
						1" Ice	0.38	0.24	5.87
1284315 TMA	D	From Face	2.00 0.00 4.00	0.0000	250.00	No Ice	0.23	0.12	1.20
						1/2" Ice	0.30	0.17	3.05
						1" Ice	0.38	0.24	5.87
SBNH-1D6565C w/ Mount Pipe	B	From Face	2.00 0.00 4.00	0.0000	250.00	No Ice	11.41	9.60	90.05
						1/2" Ice	12.03	11.02	173.64
						1" Ice	12.65	12.29	271.56
SBNH-1D6565C w/ Mount Pipe	C	From Face	2.00 0.00 4.00	0.0000	250.00	No Ice	11.41	9.60	90.05
						1/2" Ice	12.03	11.02	173.64
						1" Ice	12.65	12.29	271.56
(2) SBNH-1D6565C w/ Mount Pipe	D	From Face	2.00 0.00	0.0000	250.00	No Ice	11.41	9.60	90.05
						1/2" Ice	12.03	11.02	173.64

tnxTower GPD Group 520 South Main St Akron, OH 44311 Phone: (330) 572-2100 FAX: (330) 572-2102	Job	TAG0053 CHESHIRE	Page	3 of 7
	Project	2012856.72	Date	18:52:10 08/13/12
	Client	AT&T Mobility	Designed by	awestrum

Description	Face or Leg	Offset Type	Offsets: Horz Lateral Vert ft ft ft	Azimuth Adjustment °	Placement ft	CAAA Front ft ²	CAAA Side ft ²	Weight lb
(2) RRUS-11	B	From Face	4.00 2.00 0.00 4.00	0.0000	250.00	1" Ice 12.65 No Ice 4.42 1/2" Ice 4.71 1" Ice 5.00	12.29 1.63 1.84 2.06	271.56 55.00 80.77 109.98
(2) RRUS-11	C	From Face	2.00 0.00 4.00	0.0000	250.00	No Ice 4.42 1/2" Ice 4.71 1" Ice 5.00	1.63 1.84 2.06	55.00 80.77 109.98
(6) RRUS-11	D	From Face	2.00 0.00 4.00	0.0000	250.00	No Ice 4.42 1/2" Ice 4.71 1" Ice 5.00	1.63 1.84 2.06	55.00 80.77 109.98
GPS	A	From Face	2.00 0.00 2.00	0.0000	250.00	No Ice 0.17 1/2" Ice 0.24 1" Ice 0.32	0.17 0.24 0.32	0.87 3.85 7.85
LPA-80080-6CF-EDIN-X w/ Mount Pipe	A	From Face	2.00 -15.00 2.00	0.0000	250.00	No Ice 4.35 1/2" Ice 4.79 1" Ice 5.24	10.82 11.74 12.67	80.74 145.80 220.59
LPA-80080-6CF-EDIN-X w/ Mount Pipe	A	From Face	2.00 15.00 2.00	0.0000	250.00	No Ice 4.35 1/2" Ice 4.79 1" Ice 5.24	10.82 11.74 12.67	80.74 145.80 220.59
LPA-80063/6CFE-DIN w/ Mount Pipe	B	From Face	2.00 -15.00 2.00	0.0000	250.00	No Ice 14.20 1/2" Ice 15.02 1" Ice 15.85	14.28 15.85 17.48	70.39 187.69 320.49
LPA-80063/6CFE-DIN w/ Mount Pipe	B	From Face	2.00 15.00 2.00	0.0000	250.00	No Ice 14.20 1/2" Ice 15.02 1" Ice 15.85	14.28 15.85 17.48	70.39 187.69 320.49
LPA-80063/6CFE-DIN w/ Mount Pipe	C	From Face	4.00 0.00 2.00	0.0000	250.00	No Ice 14.20 1/2" Ice 15.02 1" Ice 15.85	14.28 15.85 17.48	70.39 187.69 320.49
4' Standoff	C	From Face	2.00 0.00 2.00	0.0000	250.00	No Ice 3.41 1/2" Ice 4.47 1" Ice 5.50	3.41 4.47 5.50	80.00 104.00 128.00
LPA-80063/6CFE-DIN w/ Mount Pipe	D	From Face	4.00 10.00 2.00	0.0000	250.00	No Ice 14.20 1/2" Ice 15.02 1" Ice 15.85	14.28 15.85 17.48	70.39 187.69 320.49
4' Standoff	D	From Face	2.00 10.00 2.00	0.0000	250.00	No Ice 3.41 1/2" Ice 4.47 1" Ice 5.50	3.41 4.47 5.50	80.00 104.00 128.00
BXA-70063-6CF	A	From Face	2.00 -5.00 2.00	0.0000	250.00	No Ice 7.73 1/2" Ice 8.27 1" Ice 8.81	4.16 4.60 5.04	17.00 59.49 107.83
BXA-171063/12BF w/ Mount Pipe	A	From Face	2.00 0.00 2.00	0.0000	250.00	No Ice 5.02 1/2" Ice 5.57 1" Ice 6.09	5.28 6.45 7.33	40.55 83.67 138.23
BXA-70063-6CF	B	From Face	2.00 -5.00 2.00	0.0000	250.00	No Ice 7.73 1/2" Ice 8.27 1" Ice 8.81	4.16 4.60 5.04	17.00 59.49 107.83
BXA-171063/12BF w/ Mount Pipe	B	From Face	2.00 5.00 2.00	0.0000	250.00	No Ice 5.02 1/2" Ice 5.57 1" Ice 6.09	5.28 6.45 7.33	40.55 83.67 138.23
BXA-70063-6CF	C	From Face	4.00 15.00 2.00	0.0000	250.00	No Ice 7.73 1/2" Ice 8.27 1" Ice 8.81	4.16 4.60 5.04	17.00 59.49 107.83
4' Standoff	C	From Face	2.00 15.00 2.00	0.0000	250.00	No Ice 3.41 1/2" Ice 4.47 1" Ice 5.50	3.41 4.47 5.50	80.00 104.00 128.00
BXA-171063/12BF w/ Mount Pipe	D	From Face	4.00 -15.00	0.0000	250.00	No Ice 5.02 1/2" Ice 5.57	5.28 6.45	40.55 83.67

tnxTower GPD Group 520 South Main St Akron, OH 44311 Phone: (330) 572-2100 FAX: (330) 572-2102	Job	TAG0053 CHESHIRE	Page	4 of 7
	Project	2012856.72	Date	18:52:10 08/13/12
	Client	AT&T Mobility	Designed by	awestrum

Description	Face or Leg	Offset Type	Offsets: Horz Lateral Vert ft ft ft	Azimuth Adjustment °	Placement ft		C _{AA} Front ft ²	C _{AA} Side ft ²	Weight lb
4' Standoff	D	From Face	2.00 2.00 -15.00 2.00	0.0000	250.00	1" Ice No Ice 1/2" Ice 1" Ice	6.09 3.41 4.47 5.50	7.33 3.41 4.47 5.50	138.23 80.00 104.00 128.00
RRH 9442	A	From Face	2.00 -15.00 2.00	0.0000	250.00	No Ice 1/2" Ice 1" Ice	2.97 3.21 3.46	2.63 2.86 3.11	50.00 74.49 102.29
RRH 9442	B	From Face	2.00 -15.00 2.00	0.0000	250.00	No Ice 1/2" Ice 1" Ice	2.97 3.21 3.46	2.63 2.86 3.11	50.00 74.49 102.29
RRH 9442	C	From Face	4.00 0.00 2.00	0.0000	250.00	No Ice 1/2" Ice 1" Ice	2.97 3.21 3.46	2.63 2.86 3.11	50.00 74.49 102.29
DUO1417-8686 w/Mount Pipe	B	From Face	5.00 10.00 0.00	0.0000	240.00	No Ice 1/2" Ice 1" Ice	7.25 7.96 8.57	5.86 6.96 7.78	45.85 103.71 172.26
TMA	B	From Face	5.00 10.00 0.00	0.0000	240.00	No Ice 1/2" Ice 1" Ice	0.23 0.30 0.38	0.12 0.17 0.24	1.20 3.05 5.87
5' Side Arm	B	From Face	2.50 10.00 0.00	0.0000	240.00	No Ice 1/2" Ice 1" Ice	2.52 3.15 3.78	2.52 3.15 3.78	200.00 250.00 300.00
DUO1417-8686 w/Mount Pipe	C	From Face	5.00 -10.00 0.00	0.0000	240.00	No Ice 1/2" Ice 1" Ice	7.25 7.96 8.57	5.86 6.96 7.78	45.85 103.71 172.26
1226494 TMA	C	From Face	5.00 -10.00 0.00	0.0000	240.00	No Ice 1/2" Ice 1" Ice	0.23 0.30 0.38	0.12 0.17 0.24	1.20 3.05 5.87
5' Side Arm	C	From Face	2.50 -10.00 0.00	0.0000	240.00	No Ice 1/2" Ice 1" Ice	2.52 3.15 3.78	2.52 3.15 3.78	200.00 250.00 300.00
DUO1417-8686 w/Mount Pipe	C	From Face	5.00 10.00 0.00	0.0000	240.00	No Ice 1/2" Ice 1" Ice	7.25 7.96 8.57	5.86 6.96 7.78	45.85 103.71 172.26
1226494 TMA	C	From Face	5.00 10.00 0.00	0.0000	240.00	No Ice 1/2" Ice 1" Ice	0.23 0.30 0.38	0.12 0.17 0.24	1.20 3.05 5.87
5' Side Arm	C	From Face	2.50 10.00 0.00	0.0000	240.00	No Ice 1/2" Ice 1" Ice	2.52 3.15 3.78	2.52 3.15 3.78	200.00 250.00 300.00
DUO1417-8686 w/Mount Pipe	D	From Face	5.00 10.00 0.00	0.0000	240.00	No Ice 1/2" Ice 1" Ice	7.25 7.96 8.57	5.86 6.96 7.78	45.85 103.71 172.26
TMA	D	From Face	5.00 10.00 0.00	0.0000	240.00	No Ice 1/2" Ice 1" Ice	0.23 0.30 0.38	0.12 0.17 0.24	1.20 3.05 5.87
5' Side Arm	D	From Face	2.50 10.00 0.00	0.0000	240.00	No Ice 1/2" Ice 1" Ice	2.52 3.15 3.78	2.52 3.15 3.78	200.00 250.00 300.00
DB980H65E-M w/ 20' Mount Pipe	B	From Face	1.00 -15.00 0.00	0.0000	225.00	No Ice 1/2" Ice 1" Ice	8.11 10.01 11.94	7.94 10.34 12.76	124.30 199.77 291.06
DB980H65E-M w/ 20' Mount Pipe	B	From Face	1.00 15.00 0.00	0.0000	225.00	No Ice 1/2" Ice 1" Ice	8.11 10.01 11.94	7.94 10.34 12.76	124.30 199.77 291.06
DB980H65E-M w/ 20' Mount Pipe	C	From Face	1.00 -15.00	0.0000	225.00	No Ice 1/2" Ice	8.11 10.01	7.94 10.34	124.30 199.77

tnxTower GPD Group 520 South Main St Akron, OH 44311 Phone: (330) 572-2100 FAX: (330) 572-2102	Job	TAG0053 CHESHIRE	Page	5 of 7
	Project	2012856.72	Date	18:52:10 08/13/12
	Client	AT&T Mobility	Designed by	awestrump

Description	Face or Leg	Offset Type	Offsets: Horz Lateral Vert ft ft ft	Azimuth Adjustment °	Placement ft		C _{AA} Front ft ²	C _{AA} Side ft ²	Weight lb
DB980H65E-M w/ 20' Mount Pipe	C	From Face	0.00	0.0000	225.00	1" Ice	11.94	12.76	291.06
			1.00			No Ice	8.11	7.94	124.30
			15.00			1/2" Ice	10.01	10.34	199.77
			0.00			1" Ice	11.94	12.76	291.06
DB980H65E-M w/ 10' Mount Pipe	D	From Face	1.00	0.0000	225.00	No Ice	5.24	5.07	66.40
			10.00			1/2" Ice	6.13	6.46	114.34
			0.00			1" Ice	7.04	7.88	172.79
			1.00			No Ice	8.11	7.94	124.30
DB980H65E-M w/ 20' Mount Pipe	D	From Face	15.00	0.0000	225.00	1/2" Ice	10.01	10.34	199.77
			0.00			1" Ice	11.94	12.76	291.06
			1.00			No Ice	2.50	2.50	50.00
			-10.00			1/2" Ice	3.53	3.53	68.64
10' x 2.5" Pipe	D	From Face	0.00	0.0000	225.00	1" Ice	4.58	4.58	93.79
			1.00			No Ice	2.50	2.50	50.00
			-15.00			1/2" Ice	3.53	3.53	68.64
			0.00			1" Ice	4.58	4.58	93.79
(3) DB844H90E-XY w/Mount Pipe	A	From Leg	1.00	0.0000	209.00	No Ice	3.58	5.40	35.55
			0.00			1/2" Ice	4.20	6.49	76.59
			3.00			1" Ice	4.73	7.30	127.74
			1.00			No Ice	3.58	5.40	35.55
(3) DB844H90E-XY w/Mount Pipe	D	From Leg	0.00	0.0000	209.00	1/2" Ice	4.20	6.49	76.59
			3.00			1" Ice	4.73	7.30	127.74
			0.50			No Ice	18.21	0.00	492.00
			0.00			1/2" Ice	23.76	0.00	690.25
14' T-Frame	D	From Leg	0.00	0.0000	209.00	1" Ice	29.31	0.00	888.50
			0.50			No Ice	18.21	0.00	492.00
			0.00			1/2" Ice	23.76	0.00	690.25
			0.00			1" Ice	29.31	0.00	888.50
(2) RR90-17-02DP w/Mount Pipe	B	From Leg	1.00	0.0000	209.00	No Ice	4.91	3.64	43.55
			0.00			1/2" Ice	5.57	4.70	81.64
			3.00			1" Ice	6.14	5.48	130.14
			1.00			No Ice	4.91	3.64	43.55
(2) RR90-17-02DP w/Mount Pipe	C	From Leg	0.00	0.0000	209.00	1/2" Ice	5.57	4.70	81.64
			3.00			1" Ice	6.14	5.48	130.14
			1.00			No Ice	7.78	3.81	66.25
			0.00			1/2" Ice	8.48	4.88	115.45
APX16DWV-16DWVS-C w/Mount Pipe	B	From Leg	3.00	0.0000	209.00	1" Ice	9.09	5.66	175.43
			1.00			No Ice	7.78	3.81	66.25
			0.00			1/2" Ice	8.48	4.88	115.45
			3.00			1" Ice	9.09	5.66	175.43
APX16DWV-16DWVS-C w/Mount Pipe	C	From Leg	1.00	0.0000	209.00	No Ice	7.78	3.81	66.25
			0.00			1/2" Ice	8.48	4.88	115.45
			3.00			1" Ice	9.09	5.66	175.43
			1.00			No Ice	0.69	0.41	14.00
(2) Dual Duplex 1900 TMA	B	From Leg	0.00	0.0000	209.00	1/2" Ice	0.81	0.51	19.05
			3.00			1" Ice	0.94	0.63	25.68
			1.00			No Ice	0.69	0.41	14.00
			0.00			1/2" Ice	0.81	0.51	19.05
(2) Dual Duplex 1900 TMA	C	From Leg	3.00	0.0000	209.00	1" Ice	0.94	0.63	25.68
			1.00			No Ice	1.17	0.47	13.00
			0.00			1/2" Ice	1.31	0.57	20.62
			3.00			1" Ice	1.47	0.69	30.11
ATMAA1412D-1A20	B	From Leg	1.00	0.0000	209.00	No Ice	1.17	0.47	13.00
			0.00			1/2" Ice	1.31	0.57	20.62
			3.00			1" Ice	1.47	0.69	30.11
			1.00			No Ice	1.17	0.47	13.00
ATMAA1412D-1A20	C	From Leg	0.00	0.0000	209.00	1/2" Ice	1.31	0.57	20.62
			3.00			1" Ice	1.47	0.69	30.11
			0.50			No Ice	18.21	0.00	492.00
			0.00			1/2" Ice	23.76	0.00	690.25
14' T-Frame	B	From Leg	0.00	0.0000	209.00	1" Ice	29.31	0.00	888.50
			0.50			No Ice	18.21	0.00	492.00
			0.00			1/2" Ice	23.76	0.00	690.25
			0.00			1" Ice	29.31	0.00	888.50
14' T-Frame	C	From Leg	0.50	0.0000	209.00	No Ice	18.21	0.00	492.00
			0.00			1/2" Ice	23.76	0.00	690.25
			0.00			1" Ice	29.31	0.00	888.50
			0.00			1/2" Ice	23.76	0.00	690.25

tnxTower GPD Group 520 South Main St Akron, OH 44311 Phone: (330) 572-2100 FAX: (330) 572-2102	Job	TAG0053 CHESHIRE	Page	6 of 7
	Project	2012856.72	Date	18:52:10 08/13/12
	Client	AT&T Mobility	Designed by	awestrum

Description	Face or Leg	Offset Type	Offsets: Horz Lateral Vert ft ft ft	Azimuth Adjustment °	Placement ft		C _A A _A Front ft ²	C _A A _A Side ft ²	Weight lb
26"x 26" Flat Panel	C	From Leg	0.00 1.00 0.00 -2.00	0.0000	209.00	1" Ice No Ice 1/2" Ice 1" Ice	29.31 5.60 5.92 6.24	0.00 0.52 0.67 0.83	888.50 15.00 38.43 65.30
(3) DB844H90E-XY w/Mount Pipe	C	From Leg	1.00 0.00 2.00	0.0000	198.00	No Ice 1/2" Ice 1" Ice	3.58 4.20 4.73	5.40 6.49 7.30	35.55 76.59 127.74
14' T-Frame	C	From Leg	0.50 0.00 0.00	0.0000	198.00	No Ice 1/2" Ice 1" Ice	18.21 23.76 29.31	0.00 0.00 0.00	492.00 690.25 888.50
PG1N0F-0091-011	A	From Leg	3.50 -3.50 5.00	-45.0000	188.00	No Ice 1/2" Ice 1" Ice	1.40 2.23 3.07	1.40 2.23 3.07	7.50 18.71 35.15
5' Standoff	A	From Leg	1.75 -1.75 0.00	-45.0000	188.00	No Ice 1/2" Ice 1" Ice	2.72 4.11 5.50	12.93 17.82 22.71	145.70 223.26 300.83
PG1N0F-0091-011	B	From Leg	3.50 3.50 5.00	45.0000	188.00	No Ice 1/2" Ice 1" Ice	1.40 2.23 3.07	1.40 2.23 3.07	7.50 18.71 35.15
5' Standoff	B	From Leg	1.75 1.75 0.00	45.0000	188.00	No Ice 1/2" Ice 1" Ice	2.72 4.11 5.50	12.93 17.82 22.71	145.70 223.26 300.83
PG1N0F-0091-011	B	From Leg	3.50 3.50 5.00	45.0000	169.00	No Ice 1/2" Ice 1" Ice	1.40 2.23 3.07	1.40 2.23 3.07	7.50 18.71 35.15
5' Standoff	B	From Leg	1.75 1.75 0.00	45.0000	169.00	No Ice 1/2" Ice 1" Ice	2.72 4.11 5.50	12.93 17.82 22.71	145.70 223.26 300.83
(2) HBX-6516DS-VTM w/ mount pipe	B	From Leg	1.00 0.00 0.00	0.0000	170.00	No Ice 1/2" Ice 1" Ice	3.53 3.91 4.33	3.17 3.80 4.43	28.15 58.62 97.61
(2) HBX-6516DS-VTM w/ mount pipe	C	From Leg	1.00 0.00 0.00	0.0000	170.00	No Ice 1/2" Ice 1" Ice	3.53 3.91 4.33	3.17 3.80 4.43	28.15 58.62 97.61
(2) HBX-6516DS-VTM w/ mount pipe	D	From Leg	1.00 0.00 0.00	0.0000	170.00	No Ice 1/2" Ice 1" Ice	3.53 3.91 4.33	3.17 3.80 4.43	28.15 58.62 97.61
(2) ATM200-A20	B	From Leg	1.00 0.00 -2.00	0.0000	170.00	No Ice 1/2" Ice 1" Ice	0.12 0.19 0.27	0.12 0.19 0.27	0.53 2.23 4.77
(2) ATM200-A20	C	From Leg	1.00 0.00 -2.00	0.0000	170.00	No Ice 1/2" Ice 1" Ice	0.12 0.19 0.27	0.12 0.19 0.27	0.53 2.23 4.77
(2) ATM200-A20	D	From Leg	1.00 0.00 -2.00	0.0000	170.00	No Ice 1/2" Ice 1" Ice	0.12 0.19 0.27	0.12 0.19 0.27	0.53 2.23 4.77
4' T-Arm - Round (GPD)	B	From Leg	0.50 0.00 0.00	0.0000	170.00	No Ice 1/2" Ice 1" Ice	2.39 2.99 3.59	1.44 1.87 2.30	83.50 108.55 133.60
4' T-Arm - Round (GPD)	C	From Leg	0.50 0.00 0.00	0.0000	170.00	No Ice 1/2" Ice 1" Ice	2.39 2.99 3.59	1.44 1.87 2.30	83.50 108.55 133.60
4' T-Arm - Round (GPD)	D	From Leg	0.50 0.00 0.00	0.0000	170.00	No Ice 1/2" Ice 1" Ice	2.39 2.99 3.59	1.44 1.87 2.30	83.50 108.55 133.60
WL14-69/S	A	From Leg	1.00 0.00 0.00	0.0000	85.00	No Ice 1/2" Ice	2.88 3.74	2.88 3.74	5.00 6.50

tnxTower GPD Group 520 South Main St Akron, OH 44311 Phone: (330) 572-2100 FAX: (330) 572-2102	Job	TAG0053 CHESHIRE	Page	7 of 7
	Project	2012856.72	Date	18:52:10 08/13/12
	Client	AT&T Mobility	Designed by	awestrum

Description	Face or Leg	Offset Type	Offsets: Horz Lateral Vert ft ft ft	Azimuth Adjustment °	Placement ft		C _{AA} Front ft ²	C _{AA} Side ft ²	Weight lb
WL14-69/S	B	From Leg	0.00	0.0000	85.00	1" Ice	4.61	4.61	8.45
			1.00			No Ice	2.88	2.88	5.00
			0.00			1/2" Ice	3.74	3.74	6.50
WL14-69/S	C	From Leg	0.00	0.0000	85.00	1" Ice	4.61	4.61	8.45
			1.00			No Ice	2.88	2.88	5.00
			0.00			1/2" Ice	3.74	3.74	6.50
WL14-69/S	D	From Leg	0.00	0.0000	85.00	1" Ice	4.61	4.61	8.45
			1.00			No Ice	2.88	2.88	5.00
			0.00			1/2" Ice	3.74	3.74	6.50
WL7-13	C	From Leg	0.00	0.0000	85.00	1" Ice	4.61	4.61	8.45
			1.00			No Ice	2.88	2.88	25.00
			0.00			1/2" Ice	3.73	3.73	32.50
2.25' Yagi	C	From Face	0.00	0.0000	44.50	1" Ice	4.59	4.59	40.00
			1.00			No Ice	0.41	0.41	10.00
			0.00			1/2" Ice	0.56	0.56	14.05
s8000	C	None	0.00	0.0000	40.00	1" Ice	0.73	0.73	19.98
						No Ice	13.22	32.52	1800.00
						1/2" Ice	13.73	33.28	2009.36
RBS 3106	C	None		0.0000	40.00	1" Ice	14.25	34.05	2228.09
						No Ice	17.85	12.60	1875.00
						1/2" Ice	18.42	13.07	2040.02
Purcell RAC35	C	None		0.0000	40.00	1" Ice	19.00	13.55	2213.20
						No Ice	8.17	6.81	120.00
						1/2" Ice	8.55	7.17	188.06
(4) RRU 22 20W	C	None		0.0000	40.00	1" Ice	8.95	7.54	261.43
						No Ice	1.57	2.58	35.00
						1/2" Ice	1.74	2.80	57.07
(2) PBC02 MU	C	None		0.0000	40.00	1" Ice	1.92	3.03	82.20
						No Ice	1.45	3.76	45.00
						1/2" Ice	1.62	4.02	70.25
14" Omni	C	None		0.0000	41.00	1" Ice	1.80	4.29	98.83
						No Ice	0.13	0.13	5.00
						1/2" Ice	0.22	0.22	6.76
GPS	C	None		0.0000	42.00	1" Ice	0.31	0.31	9.48
						No Ice	0.17	0.17	0.87
						1/2" Ice	0.24	0.24	3.85
Camera	B	From Leg	0.00	0.0000	37.00	1" Ice	0.32	0.32	7.85
			1.50			No Ice	0.13	0.06	2.00
			0.00			1/2" Ice	0.18	0.09	3.30
2.5' Box Mount	B	From Leg	0.00	0.0000	37.00	1" Ice	0.25	0.14	5.42
			1.50			No Ice	1.36	1.36	20.00
			0.00			1/2" Ice	2.45	2.45	40.00
GPS	D	From Face	0.00	0.0000	36.50	1" Ice	3.50	3.50	64.00
			3.00			No Ice	0.17	0.17	0.87
			0.00			1/2" Ice	0.24	0.24	3.85
3' Side Arm	D	From Face	0.00	0.0000	36.50	1" Ice	0.32	0.32	7.85
			1.50			No Ice	0.93	0.93	44.94
			0.00			1/2" Ice	1.13	1.13	54.87
			0.00			1" Ice	1.37	1.37	67.25

Hot Rolled Steel Properties

Label	E [ksi]	G [ksi]	Nu	Therm (Δ1E5 F)	Density[k/ft^3]	Yield[ksi]	Ry	Fu[ksi]	Rt
A36	29000	11200	.295	.65	.49	36	1.5	58	1.2

Concrete Properties

Label	E [ksi]	G [ksi]	Nu	Therm (Δ1E5 F)	Density[k/ft^3]	f'c[ksi]	Lambda	Flex Steel[ksi]	Shear Steel[ksi]
Conc3000NW	3156	1372	.15	.6	.145	3	1	60	60
Conc3500NW	3409	1482	.15	.6	.145	3.5	1	60	60
Conc4000NW	3644	1584	.15	.6	.145	4	1	60	60
Conc3000LW	2085	907	.15	.6	.11	3	1	60	60
Conc3500LW	2252	979	.15	.6	.11	3.5	1	60	60
Conc4000LW	2408	1047	.15	.6	.11	4	1	60	60

Hot Rolled Steel Section Sets

Label	Shape	Type	Design List	Material	Design Rules	A [in2]	Iy [in4]	Izz [in4]	J [in4]
TWR LEG T1	L6x6x1/2	Column	Single Angle	A36	Typical	5.75	19.9	19.9	.501
TWR HORZ IN T1	W12X26	Beam	Wide Flange	A36	Typical	7.65	17.3	204	.3
TWR DIAG IN T1	L12.5x2.5x3x3	Column	Single Angle	A36	Typical	1.8	2.464	1.07	.023
TWR RED HORZ IN T1	L2.5X2.5X3	Column	Single Angle	A36	Typical	.9	.535	.535	.011
TWR RED SUB H IN T1	L12.5x2.5x3x3	Column	Single Angle	A36	Typical	1.8	2.464	1.07	.023
TWR RED SUB D IN T1	L2.5X2.5X3	Column	Single Angle	A36	Typical	.9	.535	.535	.011
TWR HORZ OUT T1	W10X22	Column	Single Angle	A36	Typical	6.49	11.4	118	.239
TWR DIAG OUT T1	LL4x3.5x6x3	Column	Single Angle	A36	Typical	5.35	12.853	8.3	.264
TWR DIAG OUT KICK T1	LL2.5x2.5x3x3	Column	Single Angle	A36	Typical	1.8	2.464	1.07	.023
TWR RED HORZ OUT T1	L2.5X2.5X3	Beam	Double Angle	A36	Typical	.9	.535	.535	.011
TWR RED DIAG T1	L2 1/2x2 1/2x3/16	Column	Single Angle	A36	Typical	.902	.547	.547	.011
TWR LEG T2	W6X25	Column	Wide Flange	A36	Typical	7.34	17.1	53.4	.461
TWR DIAG T2	2L2 1/2x3x1/2x3/8	Column	Double Angle	A36	Typical	5	11.217	2.604	.417
TWR RED HORZ T2	L3X3X3	Beam	Double Angle	A36	Typical	1.09	.948	.948	.014
TWR RED HORZ 2 T2	2L2 1/2x2 1/2x3/16x3/8	Beam	Double Angle	A36	Typical	1.8	2.499	1.09	.021
TWR RED DIAG T2	L3X3X3	Column	Double Angle	A36	Typical	1.09	.948	.948	.014
TWR RED HORZ 3 T2	2L2 1/2x2 1/2x3/16x3/8	Beam	Double Angle	A36	Typical	1.8	2.499	1.09	.021
TWR RED DIAG 2 T2	2L2 1/2x2 1/2x3/16x3/8	Column	Double Angle	A36	Typical	1.8	2.499	1.09	.021
TWR RED DIAG 3 T2	2L2 1/2x2 1/2x1/4x3/8	Column	Double Angle	A36	Typical	2.38	3.347	1.41	.049
TWR RED HIP HORZ 1 T2	LL4x4x8x3	Column	Double Angle	A36	Typical	7.49	25.083	11	.644
TWR RED HIP HORZ 2 T2	LL3x3x3x3	Column	Double Angle	A36	Typical	2.18	4.092	1.9	.027
TWR RED HIP DIAG 1 T2	LL3x3x3x3	Column	Double Angle	A36	Typical	2.18	4.092	1.9	.027
TWR RED HIP DIAG 2 T2	LL3x3x6x3	Column	Double Angle	A36	Typical	4.22	8.39	3.5	.202
TWR INNER SUPP T2	W10X22	Beam	Wide Flange	A36	Typical	6.49	11.4	118	.239

Company : GPD Group
Designer : awestrum
Job Number : 2012856.72

TAG0053 CHESHIRE

Aug 13, 2012
6:53 PM
Checked By:

Hot Rolled Steel Section Sets (Continued)

Label	Shape	Type	Design List	Material	Design Rules	A [in2]	Iyy [in4]	Izz [in4]	J [in4]
25 TWR INNER SQUARE T2	W8X13	HBrace	Wide Flange	A36	Typical	3.84	2.73	39.6	.087
26 TWR INNER CORNER T2	W10X22	Beam	Wide Flange	A36	Typical	6.49	11.4	118	.239
27 TWR LEG T3	W6X25	Column	Wide Flange	A36	Typical	7.34	17.1	53.4	.461
28 TWR HORZ T3	2L3x2 1/2x3/16x3/8	Beam	Double Angle	A36	Typical	1.99	2.513	1.81	.023
29 TWR DIAG T3	2L2 1/2x3/8x3/8	Column	Double Angle	A36	Typical	3.84	8.341	2.08	.18
30 TWR RED HORZ T3	L3X3X3	Beam	Double Angle	A36	Typical	1.09	.948	.948	.014
31 TWR RED HORZ 2 T3	2L2 1/2x2 1/2x3/16x3/8	Beam	Double Angle	A36	Typical	1.8	2.499	1.09	.021
32 TWR RED DIAG T3	L3X3X3	Column	Double Angle	A36	Typical	1.09	.948	.948	.014
33 TWR RED HORZ 3 T3	2L2 1/2x2 1/2x3/16x3/8	Beam	Double Angle	A36	Typical	1.8	2.499	1.09	.021
34 TWR RED DIAG 2 T3	2L2 1/2x2 1/2x3/16x3/8	Column	Double Angle	A36	Typical	1.8	2.499	1.09	.021
35 TWR RED DIAG 3 T3	2L2 1/2x2 1/2x1/4x3/8	Column	Double Angle	A36	Typical	2.38	3.347	1.41	.049
36 TWR RED HIP HORZ 1 T3	LL4x4x8x3	Column	Double Angle	A36	Typical	7.49	25.083	11	.644
37 TWR RED HIP HORZ 2 T3	LL3x3x3x3	Column	Double Angle	A36	Typical	2.18	4.092	1.9	.027
38 TWR RED HIP DIAG 1 T3	LL3x3x3x3	Column	Double Angle	A36	Typical	2.18	4.092	1.9	.027
39 TWR RED HIP DIAG 2 T3	LL3x3x6x3	Column	Double Angle	A36	Typical	4.22	8.39	3.5	.202
40 TWR INNER SUPP T3	2L3x2 1/2x3/8x3/8	Beam	Double Angle	A36	Typical	3.84	5.153	3.31	.18
41 TWR INNER SQUARE T3	LL2.5x2.5x3x3	Beam	Double Angle	A36	Typical	1.8	2.464	1.07	.023
42 TWR INNER GIRT T3	LL3x2.5x6x3	Beam	Double Angle	A36	Typical	3.86	5.105	3.3	.189
43 TWR INNER TRIANGLE T3	LL2.5x2.5x3x3	Beam	Double Angle	A36	Typical	1.8	2.464	1.07	.023
44 TWR INNER CORNER T3	LL3x2.5x6x3	Beam	Double Angle	A36	Typical	3.86	5.105	3.3	.189
45 TWR INNER LADDER T3	LL3x2.5x6x3	Beam	Double Angle	A36	Typical	3.86	5.105	3.3	.189
46 TWR LEG T4	W6X25	Column	Wide Flange	A36	Typical	7.34	17.1	53.4	.461
47 TWR HORZ T4	2L3x2 1/2x3/16x3/8	Beam	Double Angle	A36	Typical	1.99	2.513	1.81	.023
48 TWR DIAG T4	2L2 1/2x3x1/2x3/8	Column	Double Angle	A36	Typical	5	11.217	2.604	.417
49 TWR RED HORZ T4	L3X3X3	Beam	Double Angle	A36	Typical	1.09	.948	.948	.014
50 TWR RED HORZ 2 T4	2L2 1/2x2 1/2x3/16x3/8	Beam	Double Angle	A36	Typical	1.8	2.499	1.09	.021
51 TWR RED DIAG T4	L3X3X3	Column	Double Angle	A36	Typical	1.09	.948	.948	.014
52 TWR RED HORZ 3 T4	2L2 1/2x2 1/2x3/16x3/8	Beam	Double Angle	A36	Typical	1.8	2.499	1.09	.021
53 TWR RED DIAG 2 T4	2L2 1/2x2 1/2x3/16x3/8	Column	Double Angle	A36	Typical	1.8	2.499	1.09	.021
54 TWR RED DIAG 3 T4	2L2 1/2x2 1/2x1/4x3/8	Column	Double Angle	A36	Typical	2.38	3.347	1.41	.049
55 TWR RED HIP HORZ 1 T4	LL4x4x8x3	Column	Double Angle	A36	Typical	7.49	25.083	11	.644
56 TWR RED HIP HORZ 2 T4	LL3x3x3x3	Column	Double Angle	A36	Typical	2.18	4.092	1.9	.027
57 TWR RED HIP DIAG 1 T4	LL3x3x3x3	Column	Double Angle	A36	Typical	2.18	4.092	1.9	.027
58 TWR RED HIP DIAG 2 T4	LL3x3x6x3	Column	Double Angle	A36	Typical	4.22	8.39	3.5	.202
59 TWR INNER SUPP T4	2L3x2 1/2x3/8x3/8	Beam	Double Angle	A36	Typical	3.84	5.153	3.31	.18
60 TWR INNER SQUARE T4	LL2.5x2.5x3x3	Beam	Double Angle	A36	Typical	1.8	2.464	1.07	.023
61 TWR INNER GIRT T4	LL3x2.5x6x3	Beam	Double Angle	A36	Typical	3.86	5.105	3.3	.189
62 TWR INNER TRIANGLE T4	LL2.5x2.5x3x3	Beam	Double Angle	A36	Typical	1.8	2.464	1.07	.023
63 TWR INNER CORNER T4	LL3x2.5x6x3	Beam	Double Angle	A36	Typical	3.86	5.105	3.3	.189
64 TWR INNER LADDER T4	LL3x2.5x6x3	Beam	Double Angle	A36	Typical	3.86	5.105	3.3	.189
65 TWR LEG T5	W8X40	Column	Wide Flange	A36	Typical	11.7	49.1	146	1.12

Hot Rolled Steel Section Sets (Continued)

Label	Shape	Type	Design List	Material	Design Rules	A [in2]	Iw [in4]	Izz [in4]	J [in4]
66 TWR HORZ T5	2L3x2 1/2x3/16x3/8	Beam	Double Angle	A36	Typical	1.99	2.513	1.81	.023
67 TWR DIAG T5	2L2 1/2x3x1/2x3/8	Column	Double Angle	A36	Typical	5	11.217	2.604	.417
68 TWR RED HORZ T5	L3X3X3	Beam	Double Angle	A36	Typical	1.09	.948	.948	.014
69 TWR RED HORZ 2 T5	2L2 1/2x2 1/2x3/16x3/8	Beam	Double Angle	A36	Typical	1.8	2.499	1.09	.021
70 TWR RED DIAG T5	L3X3X3	Column	Double Angle	A36	Typical	1.09	.948	.948	.014
71 TWR RED HORZ 3 T5	2L2 1/2x2 1/2x3/16x3/8	Beam	Double Angle	A36	Typical	1.8	2.499	1.09	.021
72 TWR RED DIAG 2 T5	2L2 1/2x2 1/2x3/16x3/8	Column	Double Angle	A36	Typical	1.8	2.499	1.09	.021
73 TWR RED DIAG 3 T5	2L2 1/2x2 1/2x1/4x3/8	Column	Double Angle	A36	Typical	2.38	3.347	1.41	.049
74 TWR RED HIP HORZ 1 T5	LL4x4x8x3	Column	Double Angle	A36	Typical	7.49	25.083	11	.644
75 TWR RED HIP HORZ 2 T5	LL3x3x3x3	Column	Double Angle	A36	Typical	2.18	4.092	1.9	.027
76 TWR RED HIP DIAG 1 T5	LL3x3x3x3	Column	Double Angle	A36	Typical	2.18	4.092	1.9	.027
77 TWR RED HIP DIAG 2 T5	LL3x3x6x3	Column	Double Angle	A36	Typical	4.22	8.39	3.5	.202
78 TWR INNER SUPP T5	2L3x2 1/2x3/8x3/8	Beam	Double Angle	A36	Typical	3.84	5.153	3.31	.18
79 TWR INNER SQUARE T5	LL2.5x2.5x3x3	Beam	Double Angle	A36	Typical	1.8	2.464	1.07	.023
80 TWR INNER GIRT T5	LL3x2.5x6x3	Beam	Double Angle	A36	Typical	3.86	5.105	3.3	.189
81 TWR INNER TRIANGLE T5	LL2.5x2.5x3x3	Beam	Double Angle	A36	Typical	1.8	2.464	1.07	.023
82 TWR INNER CORNER T5	LL3x2.5x6x3	Beam	Double Angle	A36	Typical	3.86	5.105	3.3	.189
83 TWR INNER LADDER T5	LL3x2.5x6x3	Beam	Double Angle	A36	Typical	3.86	5.105	3.3	.189
84 TWR LEG T6	W8X40	Column	Wide Flange	A36	Typical	3.86	5.105	3.3	.189
85 TWR HORZ T6	2L3x2 1/2x3/8x3/8	Beam	Double Angle	A36	Typical	3.84	5.153	3.31	.18
86 TWR DIAG T6	2L3x4x3/8x3/8	Column	Double Angle	A36	Typical	4.969	18.655	3.84	.233
87 TWR RED HORZ T6	L3X3X3	Beam	Double Angle	A36	Typical	1.09	.948	.948	.014
88 TWR RED HORZ 2 T6	2L2 1/2x2 1/2x3/16x3/8	Beam	Double Angle	A36	Typical	1.8	2.499	1.09	.021
89 TWR RED DIAG T6	L3X3X3	Column	Double Angle	A36	Typical	1.09	.948	.948	.014
90 TWR RED HORZ 3 T6	2L2 1/2x2 1/2x3/16x3/8	Beam	Double Angle	A36	Typical	1.8	2.499	1.09	.021
91 TWR RED DIAG 2 T6	2L2 1/2x2 1/2x3/16x3/8	Column	Double Angle	A36	Typical	1.8	2.499	1.09	.021
92 TWR RED DIAG 3 T6	2L2 1/2x2 1/2x1/4x3/8	Column	Double Angle	A36	Typical	2.38	3.347	1.41	.049
93 TWR RED HIP HORZ 1 T6	LL4x4x8x3	Column	Double Angle	A36	Typical	7.49	25.083	11	.644
94 TWR RED HIP HORZ 2 T6	LL3x3x3x3	Column	Double Angle	A36	Typical	2.18	4.092	1.9	.027
95 TWR RED HIP DIAG 1 T6	LL3x3x3x3	Column	Double Angle	A36	Typical	2.18	4.092	1.9	.027
96 TWR RED HIP DIAG 2 T6	LL3x3x6x3	Column	Double Angle	A36	Typical	4.22	8.39	3.5	.202
97 TWR INNER SUPP T6	2L3x2 1/2x3/8x3/8	Beam	Double Angle	A36	Typical	3.84	5.153	3.31	.18
98 TWR INNER SQUARE T6	LL2.5x2.5x3x3	Beam	Double Angle	A36	Typical	1.8	2.464	1.07	.023
99 TWR INNER GIRT T6	LL3x2.5x6x3	Beam	Double Angle	A36	Typical	3.86	5.105	3.3	.189
100 TWR INNER TRIANGLE T6	LL2.5x2.5x3x3	Beam	Double Angle	A36	Typical	1.8	2.464	1.07	.023
101 TWR INNER CORNER T6	LL3x2.5x6x3	Beam	Double Angle	A36	Typical	3.86	5.105	3.3	.189
102 TWR INNER LADDER T6	LL3x2.5x6x3	Beam	Double Angle	A36	Typical	3.86	5.105	3.3	.189
103 TWR LEG T7	W10X54	Column	Wide Flange	A36	Typical	15.8	103	303	1.82
104 TWR HORZ T7	2L3x2 1/2x3/8x3/8	Beam	Double Angle	A36	Typical	3.84	5.153	3.31	.18
105 TWR DIAG T7	2L3x4x3/8x3/8	Column	Double Angle	A36	Typical	4.969	18.655	3.84	.233
106 TWR RED HORZ T7	L3X3X3	Beam	Double Angle	A36	Typical	1.09	.948	.948	.014

Hot Rolled Steel Section Sets (Continued)

Label	Shape	Type	Design List	Material	Design Rules	A [in2]	Iy [in4]	Izz [in4]	J [in4]
107 TWR RED HORZ 2 T7	2L2 1/2x2 1/2x3/16x3/8	Beam	Double Angle	A36	Typical	1.8	2.499	1.09	.021
108 TWR RED DIAG T7	L3X3X3	Column	Double Angle	A36	Typical	1.09	.948	.948	.014
109 TWR RED HORZ 3 T7	2L2 1/2x2 1/2x3/16x3/8	Beam	Double Angle	A36	Typical	1.8	2.499	1.09	.021
110 TWR RED DIAG 2 T7	2L2 1/2x2 1/2x3/16x3/8	Column	Double Angle	A36	Typical	1.8	2.499	1.09	.021
111 TWR RED DIAG 3 T7	2L2 1/2x2 1/2x1/4x3/8	Column	Double Angle	A36	Typical	2.38	3.347	1.41	.049
112 TWR RED HIP HORZ 1 T7	LL4x4x8x3	Column	Double Angle	A36	Typical	7.49	25.083	11	.644
113 TWR RED HIP HORZ 2 T7	LL3x3x3x3	Column	Double Angle	A36	Typical	2.18	4.092	1.9	.027
114 TWR RED HIP DIAG 1 T7	LL3x3x3x3	Column	Double Angle	A36	Typical	2.18	4.092	1.9	.027
115 TWR RED HIP DIAG 2 T7	LL3x3x6x3	Column	Double Angle	A36	Typical	4.22	8.39	3.5	.202
116 TWR INNER SUPP T7	2L3x2 1/2x3/8x3/8	Beam	Double Angle	A36	Typical	3.84	5.153	3.31	.18
117 TWR INNER SQUARE T7	LL2 5x2 5x3x3	Beam	Double Angle	A36	Typical	1.8	2.464	1.07	.023
118 TWR INNER GIRT T7	LL2x2 5x6x3	Beam	Double Angle	A36	Typical	3.86	5.105	3.3	.189
119 TWR INNER TRIANGLE T7	LL2 5x2 5x3x3	Beam	Double Angle	A36	Typical	1.8	2.464	1.07	.023
120 TWR INNER CORNER T7	LL3x2 5x6x3	Beam	Double Angle	A36	Typical	3.86	5.105	3.3	.189
121 TWR INNER LADDER T7	LL3x2 5x6x3	Beam	Double Angle	A36	Typical	3.86	5.105	3.3	.189
122 TWR LEG T8	W10X60	Column	Wide Flange	A36	Typical	17.6	116	341	2.48
123 TWR HORZ T8	2L3x2 1/2x3/8x3/8	Beam	Double Angle	A36	Typical	3.84	5.153	3.31	.18
124 TWR DIAG T8	2L3x4x1/2x3/8	Column	Double Angle	A36	Typical	6.5	25.005	4.85	.542
125 TWR RED HORZ T8	L3X3X3	Beam	Double Angle	A36	Typical	1.09	.948	.948	.014
126 TWR RED HORZ 2 T8	2L2 1/2x2 1/2x3/16x3/8	Beam	Double Angle	A36	Typical	1.8	2.499	1.09	.021
127 TWR RED DIAG T8	L3X3X3	Column	Double Angle	A36	Typical	1.09	.948	.948	.014
128 TWR RED HORZ 3 T8	2L2 1/2x2 1/2x3/16x3/8	Beam	Double Angle	A36	Typical	1.8	2.499	1.09	.021
129 TWR RED DIAG 2 T8	2L2 1/2x2 1/2x3/16x3/8	Column	Double Angle	A36	Typical	1.8	2.499	1.09	.021
130 TWR RED DIAG 3 T8	2L2 1/2x2 1/2x1/4x3/8	Column	Double Angle	A36	Typical	2.38	3.347	1.41	.049
131 TWR RED HIP HORZ 1 T8	LL4x4x8x3	Column	Double Angle	A36	Typical	7.49	25.083	11	.644
132 TWR RED HIP HORZ 2 T8	LL3x3x3x3	Column	Double Angle	A36	Typical	2.18	4.092	1.9	.027
133 TWR RED HIP DIAG 1 T8	LL3x3x3x3	Column	Double Angle	A36	Typical	2.18	4.092	1.9	.027
134 TWR RED HIP DIAG 2 T8	LL3x3x6x3	Column	Double Angle	A36	Typical	4.22	8.39	3.5	.202
135 TWR INNER SUPP T8	2L3x2 1/2x3/8x3/8	Beam	Double Angle	A36	Typical	3.84	5.153	3.31	.18
136 TWR INNER SQUARE T8	LL2 5x2 5x3x3	Beam	Double Angle	A36	Typical	1.8	2.464	1.07	.023
137 TWR INNER GIRT T8	LL3x2 5x6x3	Beam	Double Angle	A36	Typical	3.86	5.105	3.3	.189
138 TWR INNER TRIANGLE T8	LL2 5x2 5x3x3	Beam	Double Angle	A36	Typical	1.8	2.464	1.07	.023
139 TWR INNER CORNER T8	LL3x2 5x6x3	Beam	Double Angle	A36	Typical	3.86	5.105	3.3	.189
140 TWR INNER LADDER T8	LL3x2 5x6x3	Beam	Double Angle	A36	Typical	3.86	5.105	3.3	.189
141 TWR LEG T9	W10X68	Column	Wide Flange	A36	Typical	20	134	394	3.56
142 TWR HORZ T9	2L3x2 1/2x3/8x3/8	Beam	Double Angle	A36	Typical	3.84	5.153	3.31	.18
143 TWR DIAG T9	2L3x4x1/2x3/8	Column	Double Angle	A36	Typical	6.5	25.005	4.85	.542
144 TWR RED HORZ T9	L3X3X3	Beam	Double Angle	A36	Typical	1.09	.948	.948	.014
145 TWR RED HORZ 2 T9	2L2 1/2x2 1/2x3/16x3/8	Beam	Double Angle	A36	Typical	1.8	2.499	1.09	.021
146 TWR RED DIAG T9	L3X3X3	Column	Double Angle	A36	Typical	1.09	.948	.948	.014
147 TWR RED HORZ 3 T9	2L2 1/2x2 1/2x3/16x3/8	Beam	Double Angle	A36	Typical	1.8	2.499	1.09	.021

Hot Rolled Steel Section Sets (Continued)

Label	Shape	Type	Design List	Material	Design Rules	A [in2]	Iw [in4]	Izz [in4]	J [in4]
148 TWR RED DIAG 2 T9	2L2 1/2x2 1/2x3/16x3/8	Column	Double Angle	A36	Typical	1.8	2.499	1.09	.021
149 TWR RED DIAG 3 T9	2L2 1/2x2 1/2x1/4x3/8	Column	Double Angle	A36	Typical	2.38	3.347	1.41	.049
150 TWR RED HIP HORZ 1 T9	LL4x4x8x3	Column	Double Angle	A36	Typical	7.49	25.083	11	.644
151 TWR RED HIP HORZ 2 T9	LL3x3x3x3	Column	Double Angle	A36	Typical	2.18	4.092	1.9	.027
152 TWR RED HIP DIAG 1 T9	LL3x3x3x3	Column	Double Angle	A36	Typical	2.18	4.092	1.9	.027
153 TWR RED HIP DIAG 2 T9	LL3x3x3x3	Column	Double Angle	A36	Typical	4.22	8.39	3.5	.202
154 TWR INNER SUPP T9	2L3x2 1/2x3/8x3/8	Beam	Double Angle	A36	Typical	3.84	5.153	3.31	.18
155 TWR INNER SQUARE T9	LL2.5x2.5x3x3	Beam	Double Angle	A36	Typical	1.8	2.464	1.07	.023
156 TWR INNER TRIANGLE T9	LL3x2.5x6x3	Beam	Double Angle	A36	Typical	3.86	5.105	3.3	.189
157 TWR INNER CORNER T9	LL2.5x2.5x3x3	Beam	Double Angle	A36	Typical	1.8	2.464	1.07	.023
158 TWR INNER LADDER T9	LL3x2.5x6x3	Beam	Double Angle	A36	Typical	3.86	5.105	3.3	.189
159 TWR LEG T10	W12X79	Column	Wide Flange	A36	Typical	23.2	216	662	3.84
160 TWR HORZ T10	2L3x3x1/2x3/8	Beam	Double Angle	A36	Typical	5.5	11.324	4.43	.458
161 TWR RED HORZ T10	2L4x4x1/2x3/8	Column	Double Angle	A36	Typical	7.5	25.217	11.1	.625
162 TWR RED HORZ T10	L3X3X3	Beam	Double Angle	A36	Typical	1.09	.948	.948	.014
163 TWR RED HORZ T10	2L2 1/2x2 1/2x3/16x3/8	Beam	Double Angle	A36	Typical	1.8	2.499	1.09	.021
164 TWR RED HORZ T10	L3X3X4	Column	Double Angle	A36	Typical	1.44	1.23	1.23	.031
165 TWR RED HORZ T10	2L2 1/2x2 1/2x1/4x3/8	Beam	Double Angle	A36	Typical	2.38	3.347	1.41	.049
166 TWR RED HORZ T10	2L2 1/2x2 1/2x1/4x3/8	Column	Double Angle	A36	Typical	2.38	3.347	1.41	.049
167 TWR RED HORZ T10	2L3x3x1/4x3/8 HRA	Beam	Double Angle	A36	Typical	2.88	5.535	2.49	.06
168 TWR RED HORZ T10	2L2 1/2x2 1/2x1/4x3/8	Column	Double Angle	A36	Typical	2.38	3.347	1.41	.049
169 TWR RED HORZ T10	2L2 1/2x2 1/2x1/4x3/8	Column	Double Angle	A36	Typical	2.38	3.347	1.41	.049
170 TWR RED HORZ T10	2L2 1/2x2 1/2x1/4x3/8	Column	Double Angle	A36	Typical	.9	.535	.535	.011
171 TWR RED HORZ 1A T10	L2.5X2.5X3	Column	Double Angle	A36	Typical	2.25	1.22	1.22	.188
172 TWR RED HORZ 1A T10	LL4x4x8x3	Column	Double Angle	A36	Typical	7.49	25.083	11	.644
173 TWR RED HIP HORZ 1 T10	LL3x3x3x3	Column	Double Angle	A36	Typical	2.18	4.092	1.9	.027
174 TWR RED HIP HORZ 2 T10	LL3x3x3x3	Column	Double Angle	A36	Typical	2.18	4.092	1.9	.027
175 TWR RED HIP DIAG 1 T10	LL3x3x6x3	Column	Double Angle	A36	Typical	4.22	8.39	3.5	.202
176 TWR RED HIP DIAG 2 T10	C4X7.25	Column	Double Angle	A36	Typical	2.13	.433	4.59	.08
177 TWR INNER LADDER T10	LL3x2.5x6x3	Column	Double Angle	A36	Typical	3.86	5.105	3.3	.189

General Section Sets

Label	Shape	Type	Material	A [in2]	Iw [in4]	Izz [in4]	J [in4]
1 TWR INNER SUPP T1	2C12x20.7x0.375	Beam	A36 Gen	12.18	17.311	258	.74
2 TWR HORZ T2	2C10x20x0.375	Beam	A36 Gen	11.76	13.025	157.8	.74
3 TWR INNER SUPP T2	2C12x20.7x0.375	Beam	A36 Gen	12.18	17.311	258	.74
4 TWR INNER SUPP T10	2C4x7.25x0.375	Beam	A36 Gen	4.26	2.647	9.18	.16

Company : GPD Group
 Designer : awestrum
 Job Number : 2012856.72

Aug 13, 2012
 6:53 PM
 Checked By:

TAG0053 CHESHIRE

Concrete Column Bending Reinforcement

	Column	Shape	Span	Perim Bars
1	M1252A	CRECT42X42	1	CUSTOM
2	M1253A	CRECT42X42	1	CUSTOM
3	M1254A	CRECT42X42	1	CUSTOM
4	M1255A	CRECT42X42	1	CUSTOM

Concrete Column Shear Reinforcement

	Column	Span	Region 1	Region 2	Region 3	Region 4
1	M1252A	1	CUSTOM	CUSTOM	CUSTOM	CUSTOM
2	M1253A	1	CUSTOM	CUSTOM	CUSTOM	CUSTOM
3	M1254A	1	CUSTOM	CUSTOM	CUSTOM	CUSTOM
4	M1255A	1	CUSTOM	CUSTOM	CUSTOM	CUSTOM

Concrete Column Design Parameters

Label	Shape	Length[ft]	Lu-vy[ft]	Lu-zz[ft]	Cm-vy	Cm-zz	Kyy	Kzz	y sway	z sway	lcr Factor	Flexural L...	Shear Lay...
1	M1252A	CRECT42X42	6.2									TAG0053	..TAG0053
2	M1253A	CRECT42X42	6.2									TAG0053	..TAG0053
3	M1254A	CRECT42X42	6.2									TAG0053	..TAG0053
4	M1255A	CRECT42X42	6.2									TAG0053	..TAG0053

Basic Load Cases

	BLC Description	Category	X Gravity	Y Gravity	Z Gravity	Joint	Point	Distributed	Area(Member)	Surface(Plate/...
1	Dead	None				40	388	39		
2	No Ice Wind 0 deg	None		-1		40	914	120		
3	No Ice Wind 45 deg	None				80	910	160		
4	No Ice Wind 90 deg	None				40	922	120		
5	No Ice Wind 135 deg	None				80	910	160		
6	No Ice Wind 180 deg	None				40	914	120		
7	No Ice Wind 225 deg	None				80	910	160		
8	No Ice Wind 270 deg	None				40	922	120		
9	No Ice Wind 315 deg	None				80	910	160		
10	Ice	None				40	396	761		
11	Temperature Drop	None						1255		
12	Ice Wind 0 deg	None				40	898	120		
13	Ice Wind 45 deg	None				80	870	160		
14	Ice Wind 90 deg	None				40	898	120		

Company : GPD Group
Designer : awestrum
Job Number : 2012856.72

Aug 13, 2012
6:53 PM
Checked By:

TAG0053 CHESHIRE

Basic Load Cases (Continued)

	BLC Description	Category	X Gravity	Y Gravity	Z Gravity	Joint	Point	Distributed	Area(Member)	Surface(Plate/...
15	Ice Wind 135 deg	None				80	874	160		
16	Ice Wind 180 deg	None				40	898	120		
17	Ice Wind 225 deg	None				80	870	160		
18	Ice Wind 270 deg	None				40	898	120		
19	Ice Wind 315 deg	None				80	874	160		
20	Service Wind 0 deg	None				40	898	120		
21	Service Wind 45 deg	None				80	862	160		
22	Service Wind 90 deg	None				40	898	120		
23	Service Wind 135 deg	None				80	866	152		
24	Service Wind 180 deg	None				40	898	120		
25	Service Wind 225 deg	None				80	862	160		
26	Service Wind 270 deg	None				40	898	120		
27	Service Wind 315 deg	None				80	866	152		

Load Combinations

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

Load Combinations (Continued)

	Description	Solve	PDelta	SRSS	BLC	Factor	BLC	Factor	BLC	Factor	BLC	Factor	BLC	Factor
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
26	Dead+Wind 315 deg - Service	Yes			1	1	27	1	28	1	29	1	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	N869A	max	45.242	7	515.809	7	33.232	2	212.189	2	1.337	5	218.188	4
2		min	-38.118	3	-365.444	3	-37.719	6	-222.486	6	-1.535	9	-240.811	8
3	N870A	max	36.261	9	520.785	5	35.46	2	228.503	2	1.673	3	240.145	4
4		min	-43.385	5	-364.04	9	-40.111	6	-238.744	6	-1.474	7	-219.148	8
5	N871	max	33.683	7	513.935	3	40.074	2	239.439	2	1.301	9	215.077	4
6		min	-40.476	3	-365.622	7	-35.423	6	-227.703	6	-1.477	5	-194.44	8
7	N872	max	42.619	9	513.088	9	37.752	2	223.267	2	1.328	7	199.175	5
8		min	-35.826	5	-371.52	5	-33.265	6	-211.417	6	-1.156	3	-221.518	9
9	Totals:	max	144.336	8	427.988	16	146.518	2						
10		min	-144.336	4	298.495	3	-146.518	6						

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

Member	Shape	Code Check	Loc [ft]	LC	Shear Ch...	Loc [ft]	Dir	LC	Pnc/om [k]	Pnt/om [k]	Mny/om [k-...]	Mhzz/om [k-...]	Cb	Egn
1	M15	LL2.5x2.5x3x3	.475	9.361	4	.004	0	z	17	12.748	38.802	2.635	1.06	1 H1-1a
2	M18	LL2.5x2.5x3x3	.437	9.361	8	.004	18.721	z	13	12.748	38.802	2.635	1.696	1 H1-1a
3	M22	LL2.5x2.5x3x3	.474	9.361	2	.004	0	z	15	12.748	38.802	2.635	1.06	1 H1-1a
4	M25	LL2.5x2.5x3x3	.420	9.361	6	.004	0	z	11	12.748	38.802	2.635	1.696	1 H1-1a
5	M29	LL2.5x2.5x3x3	.441	9.361	8	.004	18.721	z	13	12.748	38.802	2.635	1.06	1 H1-1a
6	M32	LL2.5x2.5x3x3	.389	9.361	4	.004	0	z	17	12.748	38.802	2.635	1.696	1 H1-1a
7	M36	LL2.5x2.5x3x3	.447	9.361	6	.004	0	z	11	12.748	38.802	2.635	1.06	1 H1-1a
8	M39	LL2.5x2.5x3x3	.408	9.361	2	.004	18.721	z	15	12.748	38.802	2.635	1.696	1 H1-1a
9	M1216	LL2.5x2.5x3x3	.089	7.142	7	.001	7.142	y	7	20.123	38.802	2.635	1.06	1 H1-1b
10	M1217	LL2.5x2.5x3x3	.089	7.142	5	.001	7.142	y	5	20.123	38.802	2.635	1.06	1 H1-1b
11	M1218	LL2.5x2.5x3x3	.089	7.142	3	.001	7.142	y	3	20.123	38.802	2.635	1.06	1 H1-1b
12	M1219	LL2.5x2.5x3x3	.090	7.142	9	.001	7.142	y	9	20.123	38.802	2.635	1.06	1 H1-1b
13	M1220	LL4x3.5x6x3	.049	9.217	4	.002	9.217	y	6	76.149	115.329	10.019	5.325	1 H1-1b
14	M1221	LL4x3.5x6x3	.038	6.201	8	.001	0	y	4	84.065	115.329	10.019	8.52	1 H1-1b
15	M1222	LL4x3.5x6x3	.038	9.888	4	.001	0	y	8	84.065	115.329	10.019	8.52	1 H1-1b
16	M1223	LL4x3.5x6x3	.049	9.217	8	.002	9.217	y	6	76.149	115.329	10.019	5.325	1 H1-1b
17	M1224	LL4x3.5x6x3	.050	9.217	2	.002	9.217	y	4	76.149	115.329	10.019	5.325	1 H1-1b
18	M1225	LL4x3.5x6x3	.039	6.201	6	.001	0	y	2	84.065	115.329	10.019	8.52	1 H1-1b
19	M1226	LL4x3.5x6x3	.039	9.888	2	.001	16.089	y	6	84.065	115.329	10.019	8.52	1 H1-1b

Company : GPD Group
Designer : awestrum
Job Number : 2012856.72

TAG0053 CHESHIRE

Aug 13, 2012
6:53 PM
Checked By:

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

Member	Shape	Code Check	Locftl	LC	Shear Ch...	Locftl	Dir	LC	Pnc/om [k]	Pnt/om [k]	Mhvy/om [k-...Mnzz/om [k-...Cb	Eqn
20	M1227	LL4x3.5x6x3	.050	9.217	6	.002	9.217	Y	4	76.149	115.329	5.325 1.... H1-1b
21	M1228	LL4x3.5x6x3	.049	9.217	8	.002	9.217	Y	2	76.149	115.329	5.325 1.... H1-1b
22	M1229	LL4x3.5x6x3	.038	6.201	4	.001	16.089	Y	8	84.065	115.329	8.52 1.... H1-1b
23	M1230	LL4x3.5x6x3	.038	9.888	8	.001	8.044	Y	8	84.065	115.329	8.52 1.... H1-1b
24	M1231	LL4x3.5x6x3	.049	9.217	4	.002	9.217	Y	2	76.149	115.329	5.325 1.... H1-1b
25	M1232	LL4x3.5x6x3	.050	9.217	6	.002	9.217	Y	8	76.149	115.329	5.325 1.... H1-1b
26	M1233	LL4x3.5x6x3	.039	6.201	2	.001	8.044	Y	2	84.065	115.329	8.52 1.... H1-1b
27	M1234	LL4x3.5x6x3	.039	9.888	6	.001	16.089	Y	2	84.065	115.329	8.52 1.... H1-1b
28	M1235	LL4x3.5x6x3	.050	9.217	2	.002	9.217	Y	8	76.149	115.329	5.325 1.... H1-1b
29	M51	2L2 1/2x3x1/2x3/8	.334	15.046	8	.004	22.569	Y	12	47.292	107.784	2.673 1 H1-1a
30	M59	2L2 1/2x3x1/2x3/8	.334	15.046	4	.004	22.569	Y	17	47.292	107.784	2.673 1 H1-1a
31	M67	2L2 1/2x3x1/2x3/8	.337	15.046	6	.004	22.569	Y	11	47.292	107.784	2.673 1 H1-1a
32	M75	2L2 1/2x3x1/2x3/8	.337	15.046	2	.004	22.569	Y	16	47.292	107.784	2.673 1 H1-1a
33	M83	2L2 1/2x3x1/2x3/8	.305	15.046	4	.004	22.569	Y	16	47.292	107.784	2.673 1 H1-1a
34	M91	2L2 1/2x3x1/2x3/8	.305	15.046	8	.004	22.569	Y	14	47.292	107.784	2.673 1 H1-1a
35	M99	2L2 1/2x3x1/2x3/8	.324	15.046	2	.004	22.569	Y	14	47.292	107.784	2.673 1 H1-1a
36	M107	2L2 1/2x3x1/2x3/8	.324	15.046	6	.004	22.569	Y	11	47.292	107.784	2.673 1 H1-1a
37	M124	2L2 1/2x3x3/8x3/8	.602	7.523	8	.005	22.569	Y	17	37.49	82.778	7.521 2.083 1 H1-1a
38	M132	2L2 1/2x3x3/8x3/8	.603	7.523	4	.005	22.569	Y	13	37.49	82.778	7.521 2.083 1 H1-1a
39	M141	2L2 1/2x3x3/8x3/8	.600	7.523	6	.005	22.569	Y	15	37.49	82.778	7.521 2.083 1 H1-1a
40	M149	2L2 1/2x3x3/8x3/8	.600	7.523	2	.005	22.569	Y	11	37.49	82.778	7.521 2.083 1 H1-1a
41	M158	2L2 1/2x3x3/8x3/8	.536	7.523	4	.005	22.569	Y	13	37.49	82.778	7.521 2.083 1 H1-1a
42	M166	2L2 1/2x3x3/8x3/8	.536	7.523	8	.005	22.569	Y	17	37.49	82.778	7.521 2.083 1 H1-1a
43	M175	2L2 1/2x3x3/8x3/8	.570	7.523	2	.005	22.569	Y	11	37.49	82.778	7.521 2.083 1 H1-1a
44	M183	2L2 1/2x3x3/8x3/8	.570	7.523	6	.005	22.569	Y	15	37.49	82.778	7.521 2.083 1 H1-1a
45	M205	2L2 1/2x3x1/2x3/8	.636	7.523	8	.004	22.569	Y	8	47.292	107.784	10.115 2.673 1 H1-1a
46	M213	2L2 1/2x3x1/2x3/8	.637	7.523	4	.004	22.569	Y	13	47.292	107.784	10.115 2.673 1 H1-1a
47	M222	2L2 1/2x3x1/2x3/8	.646	7.523	6	.004	22.569	Y	6	47.292	107.784	10.115 2.673 1 H1-1a
48	M230	2L2 1/2x3x1/2x3/8	.645	7.523	2	.004	22.569	Y	2	47.292	107.784	10.115 2.673 1 H1-1a
49	M239	2L2 1/2x3x1/2x3/8	.569	7.523	4	.004	22.569	Y	13	47.292	107.784	10.115 2.673 1 H1-1a
50	M247	2L2 1/2x3x1/2x3/8	.569	7.523	8	.004	22.569	Y	17	47.292	107.784	10.115 2.673 1 H1-1a
51	M256	2L2 1/2x3x1/2x3/8	.603	7.523	2	.004	22.569	Y	2	47.292	107.784	10.115 2.673 1 H1-1a
52	M264	2L2 1/2x3x1/2x3/8	.603	7.523	6	.004	22.569	Y	15	47.292	107.784	10.115 2.673 1 H1-1a
53	M286	2L2 1/2x3x1/2x3/8	.772	22.569	8	.004	22.569	Y	8	47.292	107.784	10.115 2.673 1 H1-1a
54	M294	2L2 1/2x3x1/2x3/8	.773	22.569	4	.004	22.569	Y	4	47.292	107.784	10.115 2.673 1 H1-1a
55	M303	2L2 1/2x3x1/2x3/8	.782	22.569	6	.004	22.569	Y	6	47.292	107.784	10.115 2.673 1 H1-1a
56	M311	2L2 1/2x3x1/2x3/8	.781	22.569	2	.004	22.569	Y	2	47.292	107.784	10.115 2.673 1 H1-1a
57	M320	2L2 1/2x3x1/2x3/8	.697	22.569	4	.004	22.569	Y	4	47.292	107.784	10.115 2.673 1 H1-1a
58	M328	2L2 1/2x3x1/2x3/8	.697	22.569	8	.004	22.569	Y	8	47.292	107.784	10.115 2.673 1 H1-1a
59	M337	2L2 1/2x3x1/2x3/8	.731	22.569	2	.004	22.569	Y	2	47.292	107.784	10.115 2.673 1 H1-1a
60	M345	2L2 1/2x3x1/2x3/8	.731	22.569	6	.004	22.569	Y	6	47.292	107.784	10.115 2.673 1 H1-1a

Company : GPD Group
Designer : awestrum
Job Number : 2012856.72

Aug 13, 2012
6:53 PM
Checked By:

TAG0053 CHESHIRE

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

Member		Shape	Code Check		Loc[ft]	LC	Shear Ch...	Loc[ft]	Dir	LC	Pnc/om [k]	Pnt/om [k]	Mnyy/om [k-...	Mnzz/om [k-...	Cb	Eqn
61	M367	2L3x4x3/8x3/8	.706		22.569	8	.005	22.569	Y	7	61.48	107.111	12.805	3.11	1	H1-1a
62	M375	2L3x4x3/8x3/8	.707		22.569	4	.005	22.569	Y	5	61.48	107.111	12.805	3.11	1	H1-1a
63	M384	2L3x4x3/8x3/8	.715		22.569	6	.005	22.569	Y	5	61.48	107.111	12.805	3.11	1	H1-1a
64	M392	2L3x4x3/8x3/8	.714		22.569	2	.005	22.569	Y	3	61.48	107.111	12.805	3.11	1	H1-1a
65	M401	2L3x4x3/8x3/8	.641		22.569	4	.005	22.569	Y	3	61.48	107.111	12.805	3.11	1	H1-1a
66	M409	2L3x4x3/8x3/8	.641		22.569	8	.005	22.569	Y	9	61.48	107.111	12.805	3.11	1	H1-1a
67	M418	2L3x4x3/8x3/8	.667		22.569	2	.005	22.569	Y	9	61.48	107.111	12.805	3.11	1	H1-1a
68	M426	2L3x4x3/8x3/8	.666		22.569	6	.005	22.569	Y	7	61.48	107.111	12.805	3.11	1	H1-1a
69	M448	2L3x4x3/8x3/8	.808		22.569	8	.005	22.569	Y	7	61.48	107.111	12.805	3.11	1	H1-1a
70	M456	2L3x4x3/8x3/8	.809		22.569	4	.005	22.569	Y	4	61.48	107.111	12.805	3.11	1	H1-1a
71	M465	2L3x4x3/8x3/8	.816		22.569	6	.005	22.569	Y	6	61.48	107.111	12.805	3.11	1	H1-1a
72	M473	2L3x4x3/8x3/8	.816		22.569	2	.005	22.569	Y	3	61.48	107.111	12.805	3.11	1	H1-1a
73	M482	2L3x4x3/8x3/8	.735		22.569	4	.005	22.569	Y	3	61.48	107.111	12.805	3.11	1	H1-1a
74	M490	2L3x4x3/8x3/8	.735		22.569	8	.005	22.569	Y	9	61.48	107.111	12.805	3.11	1	H1-1a
75	M499	2L3x4x3/8x3/8	.761		22.569	2	.005	22.569	Y	9	61.48	107.111	12.805	3.11	1	H1-1a
76	M507	2L3x4x3/8x3/8	.760		22.569	6	.005	22.569	Y	6	61.48	107.111	12.805	3.11	1	H1-1a
77	M529	2L3x4x1/2x3/8	.727		5.015	8	.005	22.569	Y	7	78.844	140.12	17.163	6.415	1	H1-1a
78	M537	2L3x4x1/2x3/8	.729		5.015	4	.005	22.569	Y	5	78.844	140.12	17.163	6.415	1	H1-1a
79	M546	2L3x4x1/2x3/8	.735		5.015	6	.005	22.569	Y	6	78.844	140.12	17.163	6.415	1	H1-1a
80	M554	2L3x4x1/2x3/8	.733		5.015	2	.005	22.569	Y	3	78.844	140.12	17.163	6.415	1	H1-1a
81	M563	2L3x4x1/2x3/8	.665		5.015	4	.005	22.569	Y	3	78.844	140.12	17.163	6.415	1	H1-1a
82	M571	2L3x4x1/2x3/8	.664		5.015	8	.005	22.569	Y	9	78.844	140.12	17.163	6.415	1	H1-1a
83	M580	2L3x4x1/2x3/8	.685		5.015	2	.005	22.569	Y	9	78.844	140.12	17.163	6.415	1	H1-1a
84	M588	2L3x4x1/2x3/8	.686		5.015	6	.005	22.569	Y	6	78.844	140.12	17.163	6.415	1	H1-1a
85	M610	2L3x4x1/2x3/8	.804		5.329	8	.005	22.569	Y	7	78.844	140.12	17.163	6.415	1	H1-1a
86	M618	2L3x4x1/2x3/8	.805		5.329	4	.005	22.569	Y	14	78.844	140.12	17.163	6.415	1	H1-1a
87	M627	2L3x4x1/2x3/8	.815		5.329	6	.005	22.569	Y	14	78.844	140.12	17.163	6.415	1	H1-1a
88	M635	2L3x4x1/2x3/8	.813		5.329	2	.005	22.569	Y	3	78.844	140.12	17.163	6.415	1	H1-1a
89	M644	2L3x4x1/2x3/8	.736		5.329	4	.005	22.569	Y	3	78.844	140.12	17.163	6.415	1	H1-1a
90	M652	2L3x4x1/2x3/8	.735		5.329	8	.005	22.569	Y	9	78.844	140.12	17.163	6.415	1	H1-1a
91	M661	2L3x4x1/2x3/8	.760		5.329	2	.005	22.569	Y	9	78.844	140.12	17.163	6.415	1	H1-1a
92	M669	2L3x4x1/2x3/8	.761		5.329	6	.005	22.569	Y	7	78.844	140.12	17.163	6.415	1	H1-1a
93	M691	2L4x4x1/2x3/8	.743		6.872	7	.002	6.872	Y	3	103.043	161.677	17.309	11.327	1	H1-1a
94	M701	2L4x4x1/2x3/8	.710		6.872	5	.002	6.872	Y	9	103.043	161.677	17.309	11.327	1	H1-1a
95	M712	2L4x4x1/2x3/8	.763		6.821	6	.002	0	Y	5	103.67	161.677	17.309	11.327	1	H1-1a
96	M722	2L4x4x1/2x3/8	.784		6.821	3	.002	13.642	Y	3	103.67	161.677	17.309	11.327	1	H1-1a
97	M733	2L4x4x1/2x3/8	.658		6.872	3	.002	6.872	Y	7	103.043	161.677	17.309	11.327	1	H1-1a
98	M743	2L4x4x1/2x3/8	.695		6.872	9	.002	6.872	Y	5	103.043	161.677	17.309	11.327	1	H1-1a
99	M754	2L4x4x1/2x3/8	.748		6.821	9	.002	0	Y	9	103.67	161.677	17.309	11.327	1	H1-1a
100	M764	2L4x4x1/2x3/8	.717		6.821	6	.002	0	Y	7	103.67	161.677	17.309	11.327	1	H1-1a
101	M5	W12X26	.068		12.667	16	.009	25.334	Y	11	96.306	164.91	14.677	61.777	1.15	H1-1b

Company : GPD Group
Designer : awestrum
Job Number : 2012856.72

Aug 13, 2012
6:53 PM
Checked By:

TAG0053 CHESHIRE

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

Member		Shape	Code Check		Locfil	LC	Shear Ch...	Locfil	Dir	LC	Pnc/om [k]	Pnt/om [k]	Mnyv/om [k-	Mnzz/om [k-	Cb	Eqn
102	M6	W12X26	.069		12.667	13	.009	25.334	y	17	96.306	164.91	14.677	61.802	1....	H1-1b
103	M7	W12X26	.069		12.667	11	.009	0	y	15	96.306	164.91	14.677	61.857	1....	H1-1b
104	M8	W12X26	.069		12.667	17	.009	25.334	y	13	96.306	164.91	14.677	61.862	1....	H1-1b
105	M1212	W10X22	.153		41.334	7	.012	0	y	9	27.859	139.904	10.958	46.707	2....	H1-1b
106	M1213	W10X22	.152		0	3	.012	41.334	y	9	27.859	139.904	10.958	46.707	2....	H1-1b
107	M1214	W10X22	.154		0	9	.011	41.334	y	7	27.859	139.904	10.958	46.707	2....	H1-1b
108	M1215	W10X22	.152		41.334	9	.011	0	y	3	27.859	139.904	10.958	46.707	2....	H1-1b
109	M123	2L3x2 1/2x3/16x3/8	.470		8.375	4	.015	25.125	y	14	22.95	42.898	2.687	1.54	1	H1-1a
110	M140	2L3x2 1/2x3/16x3/8	.425		25.125	6	.015	25.125	y	12	22.95	42.898	2.687	1.54	1	H1-1a
111	M157	2L3x2 1/2x3/16x3/8	.382		8.375	8	.015	25.125	y	18	22.95	42.898	2.687	1.54	1	H1-1a
112	M174	2L3x2 1/2x3/16x3/8	.451		25.125	2	.019	25.125	y	16	22.95	42.898	2.687	1.54	1	H1-1a
113	M204	2L3x2 1/2x3/16x3/8	.680		8.375	4	.015	25.125	y	14	22.95	42.898	2.687	1.54	1	H1-1a
114	M221	2L3x2 1/2x3/16x3/8	.644		25.125	6	.015	25.125	y	12	22.95	42.898	2.687	1.54	1	H1-1a
115	M238	2L3x2 1/2x3/16x3/8	.573		8.375	8	.015	25.125	y	18	22.95	42.898	2.687	1.54	1	H1-1a
116	M255	2L3x2 1/2x3/16x3/8	.651		29.313	2	.019	25.125	y	16	22.95	42.898	2.687	2.464	1	H1-1a
117	M285	2L3x2 1/2x3/16x3/8	.836		4.188	4	.015	25.125	y	14	22.95	42.898	2.687	2.464	1	H1-1a
118	M302	2L3x2 1/2x3/16x3/8	.803		25.125	6	.015	25.125	y	12	22.95	42.898	2.687	1.54	1	H1-1a
119	M319	2L3x2 1/2x3/16x3/8	.715		8.375	8	.015	25.125	y	18	22.95	42.898	2.687	1.54	1	H1-1a
120	M336	2L3x2 1/2x3/16x3/8	.794		29.313	2	.019	25.125	y	16	22.95	42.898	2.687	2.464	1	H1-1a
121	M366	2L3x2 1/2x3/8x3/8	.528		4.188	4	.017	25.125	y	15	44.67	82.778	5.511	4.656	1	H1-1a
122	M383	2L3x2 1/2x3/8x3/8	.503		17.099	6	.016	25.125	y	13	44.67	82.778	5.511	2.91	1	H1-1a
123	M400	2L3x2 1/2x3/8x3/8	.449		16.401	8	.016	25.125	y	18	44.67	82.778	5.511	2.91	1	H1-1a
124	M417	2L3x2 1/2x3/8x3/8	.499		29.313	2	.019	25.125	y	16	44.67	82.778	5.511	4.656	1	H1-1a
125	M447	2L3x2 1/2x3/8x3/8	.602		4.188	4	.017	25.125	y	14	44.67	82.778	5.511	4.656	1	H1-1a
126	M464	2L3x2 1/2x3/8x3/8	.575		17.099	6	.017	25.125	y	12	44.67	82.778	5.511	2.91	1	H1-1a
127	M481	2L3x2 1/2x3/8x3/8	.516		16.401	8	.017	25.125	y	18	44.67	82.778	5.511	2.91	1	H1-1a
128	M498	2L3x2 1/2x3/8x3/8	.567		29.313	2	.019	25.125	y	16	44.67	82.778	5.511	4.656	1	H1-1a
129	M528	2L3x2 1/2x3/8x3/8	.678		4.188	4	.017	25.125	y	15	44.67	82.778	5.511	4.656	1	H1-1a
130	M545	2L3x2 1/2x3/8x3/8	.655		17.099	6	.017	25.125	y	13	44.67	82.778	5.511	2.91	1	H1-1a
131	M562	2L3x2 1/2x3/8x3/8	.589		16.401	8	.017	25.125	y	18	44.67	82.778	5.511	2.91	1	H1-1a
132	M579	2L3x2 1/2x3/8x3/8	.638		29.313	2	.019	25.125	y	16	44.67	82.778	5.511	4.656	1	H1-1a
133	M609	2L3x2 1/2x3/8x3/8	.744		4.188	4	.017	25.125	y	14	44.67	82.778	5.511	4.656	1	H1-1a
134	M626	2L3x2 1/2x3/8x3/8	.720		17.099	6	.017	25.125	y	12	44.67	82.778	5.511	2.91	1	H1-1a
135	M643	2L3x2 1/2x3/8x3/8	.645		16.401	8	.017	25.125	y	18	44.67	82.778	5.511	2.91	1	H1-1a
136	M660	2L3x2 1/2x3/8x3/8	.695		29.313	2	.019	25.125	y	16	44.67	82.778	5.511	4.656	1	H1-1a
137	M690	2L3x3x1/2x3/8	.559		16.75	7	.005	8.375	y	17	61.27	118.563	10.211	3.848	1	H1-1a
138	M711	2L3x3x1/2x3/8	.545		16.75	3	.004	25.125	y	12	61.27	118.563	10.211	3.848	1	H1-1a
139	M732	2L3x3x1/2x3/8	.523		16.75	9	.004	25.125	y	16	61.27	118.563	10.211	3.848	1	H1-1a
140	M753	2L3x3x1/2x3/8	.516		29.313	9	.005	25.125	y	16	61.27	118.563	10.211	6.157	1	H1-1a
141	M1180	LL3x2.5x6x3	.025		4.188	3	.002	8.375	y	2	44.675	83.21	5.46	4.625	1	H1-1b
142	M1181	LL3x2.5x6x3	.025		4.188	5	.002	8.375	y	4	44.675	83.21	5.46	4.625	1	H1-1b

Company : GPD Group
Designer : awestrუმ
Job Number : 2012856.72

Aug 13, 2012
6:53 PM
Checked By:

TAG0053 CHESHIRE

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

Member	Shape	Code Check	Loc[ft]	LC	Shear Ch...	Loc[ft]	Dir	LC	Pnc/om [k]	Pnt/om [k]	Mnyy/om [k-...]	Mnzz/om [k-...]	Cb	Egn
143	M1183	LL3x2.5x6x3	.025	4.188	7	.002	0	Y	4	44.675	83.21	5.46	4.625	1 H1-1b
144	M1184	LL3x2.5x6x3	.025	4.188	7	.002	8.375	Y	2	44.675	83.21	5.46	4.625	1 H1-1b
145	M1186	LL3x2.5x6x3	.025	4.188	9	.002	0	Y	2	44.675	83.21	5.46	4.625	1 H1-1b
146	M1187	LL3x2.5x6x3	.025	4.188	3	.002	0	Y	4	44.675	83.21	5.46	4.625	1 H1-1b
147	M1150	LL3x2.5x6x3	.025	4.188	3	.002	0	Y	6	44.675	83.21	5.46	4.625	1 H1-1b
148	M1151	LL3x2.5x6x3	.025	4.188	9	.002	8.375	Y	4	44.675	83.21	5.46	4.625	1 H1-1b
149	M1153	LL3x2.5x6x3	.025	4.188	7	.002	0	Y	4	44.675	83.21	5.46	4.625	1 H1-1b
150	M1154	LL3x2.5x6x3	.025	4.188	7	.002	8.375	Y	2	44.675	83.21	5.46	4.625	1 H1-1b
151	M1156	LL3x2.5x6x3	.025	4.188	5	.002	0	Y	2	44.675	83.21	5.46	4.625	1 H1-1b
152	M1157	LL3x2.5x6x3	.025	4.188	3	.002	0	Y	4	44.675	83.21	5.46	4.625	1 H1-1b
153	M1120A	LL3x2.5x6x3	.025	4.188	3	.002	8.375	Y	2	44.675	83.21	5.46	4.625	1 H1-1b
154	M1121A	LL3x2.5x6x3	.025	4.188	9	.002	8.375	Y	4	44.675	83.21	5.46	4.625	1 H1-1b
155	M1123A	LL3x2.5x6x3	.025	4.188	7	.002	0	Y	4	44.675	83.21	5.46	4.625	1 H1-1b
156	M1124A	LL3x2.5x6x3	.025	4.188	7	.002	8.375	Y	2	44.675	83.21	5.46	4.625	1 H1-1b
157	M1126	LL3x2.5x6x3	.025	4.188	5	.002	0	Y	2	44.675	83.21	5.46	4.625	1 H1-1b
158	M1127	LL3x2.5x6x3	.025	4.188	3	.002	0	Y	4	44.675	83.21	5.46	4.625	1 H1-1b
159	M1104A	LL3x2.5x6x3	.025	4.188	3	.002	0	Y	6	44.675	83.21	5.46	4.625	1 H1-1b
160	M1105	LL3x2.5x6x3	.025	4.188	9	.002	8.375	Y	4	44.675	83.21	5.46	4.625	1 H1-1b
161	M1108	LL3x2.5x6x3	.025	4.188	7	.002	0	Y	4	44.675	83.21	5.46	4.625	1 H1-1b
162	M1109	LL3x2.5x6x3	.025	4.188	7	.002	8.375	Y	2	44.675	83.21	5.46	4.625	1 H1-1b
163	M1112A	LL3x2.5x6x3	.025	4.188	5	.002	0	Y	2	44.675	83.21	5.46	4.625	1 H1-1b
164	M1113A	LL3x2.5x6x3	.025	4.188	3	.002	0	Y	4	44.675	83.21	5.46	4.625	1 H1-1b
165	M1102	LL3x2.5x6x3	.025	4.188	3	.002	0	Y	6	44.675	83.21	5.46	4.625	1 H1-1b
166	M1103	LL3x2.5x6x3	.025	4.188	9	.002	8.375	Y	4	44.675	83.21	5.46	4.625	1 H1-1b
167	M1106	LL3x2.5x6x3	.025	4.188	7	.002	0	Y	4	44.675	83.21	5.46	4.625	1 H1-1b
168	M1107A	LL3x2.5x6x3	.025	4.188	7	.002	8.375	Y	2	44.675	83.21	5.46	4.625	1 H1-1b
169	M1110A	LL3x2.5x6x3	.025	4.188	5	.002	0	Y	2	44.675	83.21	5.46	4.625	1 H1-1b
170	M1111A	LL3x2.5x6x3	.025	4.188	3	.002	0	Y	4	44.675	83.21	5.46	4.625	1 H1-1b
171	M1046	LL3x2.5x6x3	.025	4.188	9	.002	8.375	Y	4	44.675	83.21	5.46	4.625	1 H1-1b
172	M1047	LL3x2.5x6x3	.025	4.188	7	.002	8.375	Y	4	44.675	83.21	5.46	4.625	1 H1-1b
173	M1051	LL3x2.5x6x3	.025	4.188	7	.002	8.375	Y	2	44.675	83.21	5.46	4.625	1 H1-1b
174	M1052	LL3x2.5x6x3	.025	4.188	5	.002	8.375	Y	2	44.675	83.21	5.46	4.625	1 H1-1b
175	M1056	LL3x2.5x6x3	.025	4.188	3	.002	0	Y	4	44.675	83.21	5.46	4.625	1 H1-1b
176	M1057	LL3x2.5x6x3	.025	4.188	7	.002	8.375	Y	7	44.675	83.21	5.46	4.625	1 H1-1b
177	M1061	LL3x2.5x6x3	.025	4.188	7	.002	8.375	Y	6	44.675	83.21	5.46	4.625	1 H1-1b
178	M1062	LL3x2.5x6x3	.025	4.188	3	.002	0	Y	2	44.675	83.21	5.46	4.625	1 H1-1b
179	M1176	LL3x2.5x6x3	.032	4.682	3	.002	0	Y	1	38.241	83.21	5.46	4.625	1 H1-1b
180	M1177	LL3x2.5x6x3	.013	2.961	7	.001	0	Y	5	60.97	83.21	5.46	4.625	1 H1-1b
181	M1178	LL3x2.5x6x3	.032	4.682	3	.002	0	Y	1	38.241	83.21	5.46	4.625	1 H1-1b
182	M1146	LL3x2.5x6x3	.032	4.682	3	.002	0	Y	1	38.241	83.21	5.46	4.625	1 H1-1b
183	M1147	LL3x2.5x6x3	.014	2.961	7	.001	0	Y	5	60.97	83.21	5.46	4.625	1 H1-1b

Company : GPD Group
Designer : awestrum
Job Number : 2012856.72

Aug 13, 2012
6:53 PM
Checked By:

TAG0053 CHESHIRE

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

Member	Shape	Code Check	Locftl	LC	Shear Ch....	Locftl	Dir	LC	Pnc/om [kl]	Pnt/om [kl]	Mhvy/om [k-...]	Mnzz/om [k-...]	Cb	Eqn	
184	M1148	LL3x2.5x6x3	.032	4.682	3	.002	0	Y	1	38.241	83.21	5.46	4.625	1	H1-1b
185	M1116A	LL3x2.5x6x3	.033	4.682	3	.002	0	Y	1	38.241	83.21	5.46	4.625	1	H1-1b
186	M1117A	LL3x2.5x6x3	.014	2.961	7	.001	0	Y	5	60.97	83.21	5.46	4.625	1	H1-1b
187	M1118A	LL3x2.5x6x3	.033	4.682	3	.002	0	Y	1	38.241	83.21	5.46	4.625	1	H1-1b
188	M1098	LL3x2.5x6x3	.033	4.682	3	.002	0	Y	1	38.241	83.21	5.46	4.625	1	H1-1b
189	M1099	LL3x2.5x6x3	.014	2.961	7	.001	0	Y	5	60.97	83.21	5.46	4.625	1	H1-1b
190	M1100	LL3x2.5x6x3	.033	4.682	3	.002	0	Y	1	38.241	83.21	5.46	4.625	1	H1-1b
191	M1068	LL3x2.5x6x3	.033	4.682	3	.002	0	Y	1	38.241	83.21	5.46	4.625	1	H1-1b
192	M1069	LL3x2.5x6x3	.014	2.961	7	.001	0	Y	9	60.97	83.21	5.46	4.625	1	H1-1b
193	M1070	LL3x2.5x6x3	.033	4.682	3	.002	0	Y	1	38.241	83.21	5.46	4.625	1	H1-1b
194	M1036	LL3x2.5x6x3	.033	4.682	3	.002	0	Y	1	38.241	83.21	5.46	4.625	1	H1-1b
195	M1037	LL3x2.5x6x3	.014	2.961	7	.001	0	Y	9	60.97	83.21	5.46	4.625	1	H1-1b
196	M1038	LL3x2.5x6x3	.033	4.682	3	.002	0	Y	1	38.241	83.21	5.46	4.625	1	H1-1b
197	M1008	LL3x2.5x6x3	.032	4.682	7	.002	0	Y	1	38.241	83.21	5.46	4.625	1	H1-1b
198	M1009	LL3x2.5x6x3	.014	2.961	7	.001	0	Y	9	60.97	83.21	5.46	4.625	1	H1-1b
199	M1010	LL3x2.5x6x3	.032	4.682	3	.002	0	Y	1	38.241	83.21	5.46	4.625	1	H1-1b
200	M971	LL3x2.5x6x3	.032	2.961	3	.001	0	Y	2	60.97	83.21	5.46	4.625	1	H1-1b
201	M972	LL3x2.5x6x3	.061	4.682	3	.002	0	Y	11	68.512	83.21	5.46	4.625	1....	H1-1b
202	M973	LL3x2.5x6x3	.061	4.682	3	.002	0	Y	7	68.512	83.21	5.46	4.625	1....	H1-1b
203	M974	LL3x2.5x6x3	.003	1.481	3	.001	0	Y	5	75.961	83.21	5.46	4.625	1	H1-1b
204	M1205	W8X13	.072	8.375	15	.004	0	Y	4	10.157	82.778	3.862	8.855	1....	H1-1b
205	M1207	W8X13	.072	8.375	13	.004	16.75	Y	6	10.157	82.778	3.862	8.855	1....	H1-1b
206	M1209	W8X13	.072	8.375	11	.004	16.75	Y	4	10.157	82.778	3.862	8.855	1....	H1-1b
207	M1211	W8X13	.071	8.375	17	.004	0	Y	2	10.157	82.778	3.862	8.863	1....	H1-1b
208	M1188	LL2.5x2.5x3x3	.224	8.375	15	.006	16.75	Y	8	15.832	38.802	2.635	1.696	1....	H1-1b
209	M1192	LL2.5x2.5x3x3	.224	8.375	17	.006	0	Y	6	15.832	38.802	2.635	1.696	1.53	H1-1b
210	M1196	LL2.5x2.5x3x3	.225	8.375	3	.006	16.75	Y	7	15.832	38.802	2.635	1.696	1....	H1-1b
211	M1200	LL2.5x2.5x3x3	.225	8.375	3	.006	0	Y	7	15.832	38.802	2.635	1.696	1....	H1-1b
212	M1158	LL2.5x2.5x3x3	.224	8.375	7	.006	0	Y	7	15.832	38.802	2.635	1.696	1....	H1-1b
213	M1162	LL2.5x2.5x3x3	.224	8.375	16	.006	16.75	Y	7	15.832	38.802	2.635	1.696	1....	H1-1b
214	M1166	LL2.5x2.5x3x3	.227	8.375	3	.006	16.75	Y	7	15.832	38.802	2.635	1.696	1....	H1-1b
215	M1170	LL2.5x2.5x3x3	.227	8.375	3	.006	0	Y	7	15.832	38.802	2.635	1.696	1....	H1-1b
216	M1128	LL2.5x2.5x3x3	.225	8.375	7	.006	0	Y	7	15.832	38.802	2.635	1.696	1....	H1-1b
217	M1132	LL2.5x2.5x3x3	.225	8.375	7	.006	16.75	Y	7	15.832	38.802	2.635	1.696	1....	H1-1b
218	M1136	LL2.5x2.5x3x3	.228	8.375	3	.006	16.75	Y	7	15.832	38.802	2.635	1.696	1....	H1-1b
219	M1140	LL2.5x2.5x3x3	.228	8.375	3	.006	0	Y	7	15.832	38.802	2.635	1.696	1.71	H1-1b
220	M1110	LL2.5x2.5x3x3	.220	8.375	15	.006	16.75	Y	9	15.832	38.802	2.635	1.696	1....	H1-1b
221	M1114	LL2.5x2.5x3x3	.220	8.375	17	.006	0	Y	5	15.832	38.802	2.635	1.696	1....	H1-1b
222	M1118	LL2.5x2.5x3x3	.223	8.375	3	.006	16.75	Y	7	15.832	38.802	2.635	1.696	1....	H1-1b
223	M1122	LL2.5x2.5x3x3	.223	8.375	3	.006	0	Y	7	15.832	38.802	2.635	1.696	1....	H1-1b
224	M1080	LL2.5x2.5x3x3	.220	8.375	15	.006	16.75	Y	9	15.832	38.802	2.635	1.696	1....	H1-1b

Company : GPD Group
Designer : awestrum
Job Number : 2012856.72

Aug 13, 2012
6:53 PM
Checked By:

TAG0053 CHESHIRE

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

Member	Shape	Code Check	Loc[ft]	LC	Shear Ch...	Loc[ft]	Dir	LC	Pnc/om [k]	Pnt/om [k]	Mny/om [k-...]	Mnzz/om [k-...]	Cb	Eqn
225	M1084													
	LL2.5x2.5x3x3	.220	8.375	17	.006	0	y	5	15.832	38.802	2.635	1.696	1....	H1-1b
226	M1088													
	LL2.5x2.5x3x3	.223	8.375	3	.006	16.75	y	7	15.832	38.802	2.635	1.696	1....	H1-1b
227	M1092													
	LL2.5x2.5x3x3	.223	8.375	3	.006	0	y	7	15.832	38.802	2.635	1.696	1....	H1-1b
228	M1042													
	LL2.5x2.5x3x3	.224	8.375	3	.006	0	y	7	15.832	38.802	2.635	1.696	1....	H1-1b
229	M1043													
	LL2.5x2.5x3x3	.221	8.375	7	.006	16.75	y	5	15.832	38.802	2.635	1.696	1....	H1-1b
230	M1044													
	LL2.5x2.5x3x3	.221	8.375	7	.006	0	y	9	15.832	38.802	2.635	1.696	1....	H1-1b
231	M1045													
	LL2.5x2.5x3x3	.224	8.375	3	.006	16.75	y	7	15.832	38.802	2.635	1.696	1....	H1-1b
232	M1012													
	LL2.5x2.5x3x3	.220	8.375	4	.006	16.75	y	9	15.832	38.802	2.635	1.696	1....	H1-1b
233	M1018													
	LL2.5x2.5x3x3	.220	8.375	2	.006	0	y	5	15.832	38.802	2.635	1.696	1....	H1-1b
234	M1024													
	LL2.5x2.5x3x3	.220	8.375	2	.006	16.75	y	7	15.832	38.802	2.635	1.696	1....	H1-1b
235	M1030													
	LL2.5x2.5x3x3	.221	8.375	13	.006	0	y	7	15.832	38.802	2.635	1.696	1....	H1-1b
236	M191													
	2L3x2 1/2x3/8x3/8	.157	11.844	16	.008	11.844	y	12	60.809	82.778	5.511	2.91	2....	H1-1b
237	M192													
	2L3x2 1/2x3/8x3/8	.158	11.844	16	.008	11.844	y	16	60.809	82.778	5.511	2.91	1.91	H1-1b
238	M193													
	2L3x2 1/2x3/8x3/8	.157	11.844	16	.008	11.844	y	12	60.809	82.778	5.511	2.91	2....	H1-1b
239	M194													
	2L3x2 1/2x3/8x3/8	.162	11.844	16	.008	11.844	y	16	60.809	82.778	5.511	2.91	1....	H1-1b
240	M272													
	2L3x2 1/2x3/8x3/8	.156	11.844	16	.008	11.844	y	12	60.809	82.778	5.511	2.91	2....	H1-1b
241	M273													
	2L3x2 1/2x3/8x3/8	.156	11.844	16	.008	11.844	y	16	60.809	82.778	5.511	2.91	1.9	H1-1b
242	M274													
	2L3x2 1/2x3/8x3/8	.156	11.844	16	.008	11.844	y	12	60.809	82.778	5.511	2.91	2.06	H1-1b
243	M275													
	2L3x2 1/2x3/8x3/8	.161	11.844	16	.008	11.844	y	16	60.809	82.778	5.511	2.91	1....	H1-1b
244	M353													
	2L3x2 1/2x3/8x3/8	.158	11.844	16	.008	11.844	y	12	60.809	82.778	5.511	2.91	2.03	H1-1b
245	M354													
	2L3x2 1/2x3/8x3/8	.158	11.844	16	.008	11.844	y	16	60.809	82.778	5.511	2.91	1....	H1-1b
246	M355													
	2L3x2 1/2x3/8x3/8	.158	11.844	16	.008	11.844	y	12	60.809	82.778	5.511	2.91	2....	H1-1b
247	M356													
	2L3x2 1/2x3/8x3/8	.169	11.844	7	.008	11.844	y	16	60.809	82.778	5.511	2.91	1....	H1-1b
248	M434													
	2L3x2 1/2x3/8x3/8	.155	11.844	15	.015	11.844	y	14	60.809	82.778	5.511	2.91	2.09	H1-1b
249	M435													
	2L3x2 1/2x3/8x3/8	.156	11.844	12	.015	11.844	y	11	60.809	82.778	5.511	2.91	2....	H1-1b
250	M436													
	2L3x2 1/2x3/8x3/8	.155	11.844	16	.015	11.844	y	18	60.809	82.778	5.511	2.91	2.08	H1-1b
251	M437													
	2L3x2 1/2x3/8x3/8	.160	11.844	16	.015	11.844	y	16	60.809	82.778	5.511	2.91	1....	H1-1b
252	M515													
	2L3x2 1/2x3/8x3/8	.156	11.844	16	.015	11.844	y	14	60.809	82.778	5.511	2.91	2....	H1-1b
253	M516													
	2L3x2 1/2x3/8x3/8	.158	11.844	12	.015	11.844	y	11	60.809	82.778	5.511	2.91	2.08	H1-1b
254	M517													
	2L3x2 1/2x3/8x3/8	.156	11.844	16	.015	11.844	y	18	60.809	82.778	5.511	2.91	2.07	H1-1b
255	M518													
	2L3x2 1/2x3/8x3/8	.162	11.844	16	.015	11.844	y	16	60.809	82.778	5.511	2.91	1....	H1-1b
256	M596													
	2L3x2 1/2x3/8x3/8	.157	11.844	16	.015	11.844	y	14	60.809	82.778	5.511	2.91	2....	H1-1b
257	M597													
	2L3x2 1/2x3/8x3/8	.158	11.844	12	.015	11.844	y	11	60.809	82.778	5.511	2.91	2....	H1-1b
258	M598													
	2L3x2 1/2x3/8x3/8	.157	11.844	12	.015	11.844	y	18	60.809	82.778	5.511	2.91	1....	H1-1b
259	M599													
	2L3x2 1/2x3/8x3/8	.163	11.844	7	.015	11.844	y	16	60.809	82.778	5.511	2.91	1....	H1-1b
260	M677													
	2L3x2 1/2x3/8x3/8	.158	11.844	12	.015	11.844	y	14	60.809	82.778	5.511	2.91	1....	H1-1b
261	M678													
	2L3x2 1/2x3/8x3/8	.159	11.844	12	.015	11.844	y	11	60.809	82.778	5.511	2.91	2....	H1-1b
262	M679													
	2L3x2 1/2x3/8x3/8	.158	11.844	12	.015	11.844	y	18	60.809	82.778	5.511	2.91	1....	H1-1b
263	M680													
	2L3x2 1/2x3/8x3/8	.168	11.844	7	.015	11.844	y	16	60.809	82.778	5.511	2.91	1....	H1-1b
264	M1189													
	LL2.5x2.5x3x3	.032	4.188	16	.002	8.375	y	6	15.832	38.802	2.635	1.696	1	H1-1b
265	M1190													
	LL2.5x2.5x3x3	.017	2.961	7	.001	5.922	y	9	24.574	38.802	2.635	1.696	1	H1-1b

Company : GPD Group
Designer : awestrum
Job Number : 2012856.72

Aug 13, 2012
6:53 PM
Checked By:

TAG0053 CHESHIRE

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

Member	Shape	Code Check	Locftl	LC	Shear Ch...	Locftl	Dir	LC	Pnc/om [k]	Pnt/om [k]	Mny/om [k-...	Mnzz/om [k-...	Cb	Eqn
266	M1191	LL2.5x2.5x3x3	.016	2.961	3	.001	0	Y	7	24.574	38.802	2.635	1.696	1 H1-1b
267	M1193	LL2.5x2.5x3x3	.032	4.188	16	.002	8.375	Y	4	15.832	38.802	2.635	1.696	1 H1-1b
268	M1194	LL2.5x2.5x3x3	.016	2.961	3	.001	0	Y	7	24.574	38.802	2.635	1.696	1 H1-1b
269	M1195	LL2.5x2.5x3x3	.017	2.961	7	.001	5.922	Y	5	24.574	38.802	2.635	1.696	1 H1-1b
270	M1197	LL2.5x2.5x3x3	.032	4.188	3	.002	8.375	Y	2	15.832	38.802	2.635	1.696	1 H1-1b
271	M1198	LL2.5x2.5x3x3	.017	2.961	7	.001	5.922	Y	5	24.574	38.802	2.635	1.696	1 H1-1b
272	M1199	LL2.5x2.5x3x3	.016	2.961	3	.001	0	Y	1	24.574	38.802	2.635	1.696	1 H1-1b
273	M1201	LL2.5x2.5x3x3	.032	4.188	3	.002	8.375	Y	8	15.832	38.802	2.635	1.696	1 H1-1b
274	M1202	LL2.5x2.5x3x3	.016	2.961	3	.001	0	Y	1	24.574	38.802	2.635	1.696	1 H1-1b
275	M1203	LL2.5x2.5x3x3	.017	2.961	7	.001	0	Y	1	24.574	38.802	2.635	1.696	1 H1-1b
276	M1159	LL2.5x2.5x3x3	.032	4.188	16	.002	8.375	Y	2	15.832	38.802	2.635	1.696	1 H1-1b
277	M1160	LL2.5x2.5x3x3	.017	2.961	3	.001	5.922	Y	7	24.574	38.802	2.635	1.696	1 H1-1b
278	M1161	LL2.5x2.5x3x3	.017	2.961	7	.001	0	Y	9	24.574	38.802	2.635	1.696	1 H1-1b
279	M1163	LL2.5x2.5x3x3	.032	4.188	16	.002	8.375	Y	8	15.832	38.802	2.635	1.696	1 H1-1b
280	M1164	LL2.5x2.5x3x3	.017	2.961	7	.001	0	Y	5	24.574	38.802	2.635	1.696	1 H1-1b
281	M1165	LL2.5x2.5x3x3	.017	2.961	3	.001	0	Y	3	24.574	38.802	2.635	1.696	1 H1-1b
282	M1167	LL2.5x2.5x3x3	.032	4.188	3	.002	8.375	Y	6	15.832	38.802	2.635	1.696	1 H1-1b
283	M1168	LL2.5x2.5x3x3	.017	2.961	3	.001	0	Y	1	24.574	38.802	2.635	1.696	1 H1-1b
284	M1169	LL2.5x2.5x3x3	.017	2.961	7	.001	0	Y	5	24.574	38.802	2.635	1.696	1 H1-1b
285	M1171	LL2.5x2.5x3x3	.032	4.188	3	.002	8.375	Y	4	15.832	38.802	2.635	1.696	1 H1-1b
286	M1172	LL2.5x2.5x3x3	.017	2.961	7	.001	0	Y	1	24.574	38.802	2.635	1.696	1 H1-1b
287	M1173	LL2.5x2.5x3x3	.017	2.961	3	.001	0	Y	1	24.574	38.802	2.635	1.696	1 H1-1b
288	M1129	LL2.5x2.5x3x3	.032	4.188	16	.002	8.375	Y	6	15.832	38.802	2.635	1.696	1 H1-1b
289	M1130	LL2.5x2.5x3x3	.017	2.961	7	.001	5.922	Y	9	24.574	38.802	2.635	1.696	1 H1-1b
290	M1131	LL2.5x2.5x3x3	.017	2.961	3	.001	0	Y	7	24.574	38.802	2.635	1.696	1 H1-1b
291	M1133	LL2.5x2.5x3x3	.032	4.188	16	.002	8.375	Y	4	15.832	38.802	2.635	1.696	1 H1-1b
292	M1134	LL2.5x2.5x3x3	.017	2.961	3	.001	0	Y	7	24.574	38.802	2.635	1.696	1 H1-1b
293	M1135	LL2.5x2.5x3x3	.017	2.961	7	.001	5.922	Y	5	24.574	38.802	2.635	1.696	1 H1-1b
294	M1137	LL2.5x2.5x3x3	.032	4.188	3	.002	8.375	Y	2	15.832	38.802	2.635	1.696	1 H1-1b
295	M1138	LL2.5x2.5x3x3	.017	2.961	7	.001	5.922	Y	5	24.574	38.802	2.635	1.696	1 H1-1b
296	M1139	LL2.5x2.5x3x3	.017	2.961	3	.001	0	Y	1	24.574	38.802	2.635	1.696	1 H1-1b
297	M1141	LL2.5x2.5x3x3	.032	4.188	3	.002	8.375	Y	7	15.832	38.802	2.635	1.696	1 H1-1b
298	M1142	LL2.5x2.5x3x3	.017	2.961	3	.001	0	Y	1	24.574	38.802	2.635	1.696	1 H1-1b
299	M1143	LL2.5x2.5x3x3	.017	2.961	7	.001	0	Y	1	24.574	38.802	2.635	1.696	1 H1-1b
300	M1111	LL2.5x2.5x3x3	.032	4.188	16	.002	8.375	Y	5	15.832	38.802	2.635	1.696	1 H1-1b
301	M1112	LL2.5x2.5x3x3	.016	2.961	7	.001	5.922	Y	9	24.574	38.802	2.635	1.696	1 H1-1b
302	M1113	LL2.5x2.5x3x3	.016	2.961	3	.001	0	Y	7	24.574	38.802	2.635	1.696	1 H1-1b
303	M1115	LL2.5x2.5x3x3	.032	4.188	16	.002	8.375	Y	3	15.832	38.802	2.635	1.696	1 H1-1b
304	M1116	LL2.5x2.5x3x3	.016	2.961	3	.001	0	Y	6	24.574	38.802	2.635	1.696	1 H1-1b
305	M1117	LL2.5x2.5x3x3	.016	2.961	7	.001	5.922	Y	5	24.574	38.802	2.635	1.696	1 H1-1b
306	M1119	LL2.5x2.5x3x3	.032	4.188	3	.002	8.375	Y	2	15.832	38.802	2.635	1.696	1 H1-1b

Company : GPD Group
Designer : awestrum
Job Number : 2012856.72

TAG0053 CHESHIRE

Aug 13, 2012
6:53 PM
Checked By:

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

Member	Shape	Code Check	Loc[ft]	LC	Shear Ch...	Loc[ft]	Dir	LC	Pnc/om [k]	Pnt/om [k]	Mny/om [k-...Mnzz/om [k-...Cb	Egn
307	M1120											
	LL2.5x2.5x3x3	.016	2.961	7	.001	5.922	Y	5	24.574	38.802	2.635	1.696 1 H1-1b
308	M1121											
	LL2.5x2.5x3x3	.016	2.961	3	.001	0	Y	1	24.574	38.802	2.635	1.696 1 H1-1b
309	M1123											
	LL2.5x2.5x3x3	.032	4.188	3	.002	8.375	Y	7	15.832	38.802	2.635	1.696 1 H1-1b
310	M1124											
	LL2.5x2.5x3x3	.016	2.961	3	.001	0	Y	1	24.574	38.802	2.635	1.696 1 H1-1b
311	M1125											
	LL2.5x2.5x3x3	.016	2.961	7	.001	0	Y	1	24.574	38.802	2.635	1.696 1 H1-1b
312	M1081											
	LL2.5x2.5x3x3	.017	2.961	7	.001	5.922	Y	9	24.574	38.802	2.635	1.696 1 H1-1b
313	M1082											
	LL2.5x2.5x3x3	.017	2.961	3	.001	0	Y	7	24.574	38.802	2.635	1.696 1 H1-1b
314	M1083											
	LL2.5x2.5x3x3	.032	4.188	16	.002	8.375	Y	5	15.832	38.802	2.635	1.696 1 H1-1b
315	M1085											
	LL2.5x2.5x3x3	.017	2.961	3	.001	0	Y	7	24.574	38.802	2.635	1.696 1 H1-1b
316	M1086											
	LL2.5x2.5x3x3	.017	2.961	7	.001	5.922	Y	5	24.574	38.802	2.635	1.696 1 H1-1b
317	M1087											
	LL2.5x2.5x3x3	.032	4.188	16	.002	8.375	Y	3	15.832	38.802	2.635	1.696 1 H1-1b
318	M1089											
	LL2.5x2.5x3x3	.017	2.961	7	.001	5.922	Y	5	24.574	38.802	2.635	1.696 1 H1-1b
319	M1090											
	LL2.5x2.5x3x3	.017	2.961	3	.001	0	Y	1	24.574	38.802	2.635	1.696 1 H1-1b
320	M1091											
	LL2.5x2.5x3x3	.032	4.188	3	.002	8.375	Y	2	15.832	38.802	2.635	1.696 1 H1-1b
321	M1093											
	LL2.5x2.5x3x3	.017	2.961	3	.001	0	Y	1	24.574	38.802	2.635	1.696 1 H1-1b
322	M1094											
	LL2.5x2.5x3x3	.017	2.961	7	.001	0	Y	1	24.574	38.802	2.635	1.696 1 H1-1b
323	M1095											
	LL2.5x2.5x3x3	.032	4.188	3	.002	8.375	Y	7	15.832	38.802	2.635	1.696 1 H1-1b
324	M1048											
	LL2.5x2.5x3x3	.032	4.188	7	.002	8.375	Y	2	15.832	38.802	2.635	1.696 1 H1-1b
325	M1049											
	LL2.5x2.5x3x3	.017	2.961	3	.001	5.922	Y	7	24.574	38.802	2.635	1.696 1 H1-1b
326	M1050											
	LL2.5x2.5x3x3	.017	2.961	7	.001	0	Y	9	24.574	38.802	2.635	1.696 1 H1-1b
327	M1053											
	LL2.5x2.5x3x3	.032	4.188	7	.002	8.375	Y	7	15.832	38.802	2.635	1.696 1 H1-1b
328	M1054											
	LL2.5x2.5x3x3	.017	2.961	7	.001	0	Y	5	24.574	38.802	2.635	1.696 1 H1-1b
329	M1055											
	LL2.5x2.5x3x3	.017	2.961	3	.001	0	Y	3	24.574	38.802	2.635	1.696 1 H1-1b
330	M1058											
	LL2.5x2.5x3x3	.032	4.188	3	.002	8.375	Y	5	15.832	38.802	2.635	1.696 1 H1-1b
331	M1059											
	LL2.5x2.5x3x3	.017	2.961	3	.001	0	Y	1	24.574	38.802	2.635	1.696 1 H1-1b
332	M1060											
	LL2.5x2.5x3x3	.017	2.961	7	.001	0	Y	5	24.574	38.802	2.635	1.696 1 H1-1b
333	M1063											
	LL2.5x2.5x3x3	.032	4.188	3	.002	8.375	Y	3	15.832	38.802	2.635	1.696 1 H1-1b
334	M1064											
	LL2.5x2.5x3x3	.017	2.961	7	.001	0	Y	1	24.574	38.802	2.635	1.696 1 H1-1b
335	M1065											
	LL2.5x2.5x3x3	.017	2.961	3	.001	0	Y	1	24.574	38.802	2.635	1.696 1 H1-1b
336	M1015											
	LL2.5x2.5x3x3	.032	4.188	16	.002	8.375	Y	6	15.832	38.802	2.635	1.696 1 H1-1b
337	M1016											
	LL2.5x2.5x3x3	.017	2.961	7	.001	5.922	Y	2	24.574	38.802	2.635	1.696 1 H1-1b
338	M1017											
	LL2.5x2.5x3x3	.017	2.961	3	.001	0	Y	7	24.574	38.802	2.635	1.696 1 H1-1b
339	M1021											
	LL2.5x2.5x3x3	.032	4.188	16	.002	8.375	Y	3	15.832	38.802	2.635	1.696 1 H1-1b
340	M1022											
	LL2.5x2.5x3x3	.017	2.961	3	.001	0	Y	6	24.574	38.802	2.635	1.696 1 H1-1b
341	M1023											
	LL2.5x2.5x3x3	.017	2.961	7	.001	5.922	Y	5	24.574	38.802	2.635	1.696 1 H1-1b
342	M1027											
	LL2.5x2.5x3x3	.032	4.188	3	.002	8.375	Y	1	15.832	38.802	2.635	1.696 1 H1-1b
343	M1028											
	LL2.5x2.5x3x3	.017	2.961	7	.001	5.922	Y	4	24.574	38.802	2.635	1.696 1 H1-1b
344	M1029											
	LL2.5x2.5x3x3	.017	2.961	3	.001	0	Y	1	24.574	38.802	2.635	1.696 1 H1-1b
345	M1033											
	LL2.5x2.5x3x3	.032	4.188	12	.002	8.375	Y	1	15.832	38.802	2.635	1.696 1 H1-1b
346	M1034											
	LL2.5x2.5x3x3	.017	2.961	3	.001	0	Y	1	24.574	38.802	2.635	1.696 1 H1-1b
347	M1035											
	LL2.5x2.5x3x3	.017	2.961	7	.001	0	Y	1	24.574	38.802	2.635	1.696 1 H1-1b

Company : GPD Group
Designer : awestrum
Job Number : 2012856.72

Aug 13, 2012
6:53 PM
Checked By:

TAG0053 CHESHIRE

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

Member	Shape	Code Check	Locfll	LC	Shear Ch...	Locfll	Dir	LC	Pnc/om [k]	Pnt/om [k]	Mnv/om [k-...	Mnzz/om [k-...	Eqn
348	M1		2.696	7	.076	14.377	y	3	93.555	123.952	3.534	20.146	1.... H2-1
349	M2		2.097	5	.077	14.377	z	9	93.555	123.952	3.534	20.193	2.56 H2-1
350	M3		1.348	2	.074	14.377	y	7	93.555	123.952	3.534	20.193	2.... H2-1
351	M4		5.092	9	.074	14.377	z	5	93.555	123.952	3.534	20.173	1.... H2-1
352	M47		0	5	.019	12.5	y	7	139.341	158.228	15.377	33.952	1 H1-1b
353	M48		0	7	.018	12.5	y	5	139.341	158.228	15.377	33.952	1 H1-1b
354	M49		0	9	.018	12.5	y	3	139.341	158.228	15.377	33.952	1 H1-1b
355	M50		0	3	.018	12.5	y	9	139.341	158.228	15.377	33.952	1 H1-1b
356	M119		0	7	.026	18.75	y	7	139.341	158.228	15.377	33.952	1 H1-1a
357	M120		0	5	.027	18.75	y	5	139.341	158.228	15.377	33.952	1 H1-1a
358	M121		0	3	.025	18.75	y	3	139.341	158.228	15.377	33.952	1 H1-1a
359	M122		22.135	9	.026	18.75	y	9	139.341	158.228	15.377	33.952	1 H1-1a
360	M200		0	7	.038	6.25	y	7	139.341	158.228	15.377	33.952	1 H1-1a
361	M201		0	5	.039	6.25	y	5	139.341	158.228	15.377	33.952	1 H1-1a
362	M202		0	3	.037	6.25	y	3	139.341	158.228	15.377	33.952	1 H1-1a
363	M203		0	9	.036	6.25	y	9	139.341	158.228	15.377	33.952	1 H1-1a
364	M281		25	7	.030	6.25	y	7	235.032	252.216	33.234	71.497	1 H1-1a
365	M282		25	5	.031	6.25	y	5	235.032	252.216	33.234	71.497	1 H1-1a
366	M283		0	3	.030	6.25	y	3	235.032	252.216	33.234	71.497	1 H1-1a
367	M284		25	9	.029	6.25	y	9	235.032	252.216	33.234	71.497	1 H1-1a
368	M362		0	7	.053	6.25	y	7	235.032	252.216	33.234	71.497	1 H1-1a
369	M363		0	5	.055	6.25	y	5	235.032	252.216	33.234	71.497	1 H1-1a
370	M364		0	3	.053	6.25	y	3	235.032	252.216	33.234	71.497	1 H1-1a
371	M365		0	9	.052	6.25	y	9	235.032	252.216	33.234	71.497	1 H1-1a
372	M443		25	7	.052	6.25	y	7	325.473	340.599	56.228	119.641	1 H1-1a
373	M444		25	5	.053	6.25	y	5	325.473	340.599	56.228	119.641	1 H1-1a
374	M445		25	3	.052	6.25	y	3	325.473	340.599	56.228	119.641	1 H1-1a
375	M446		25	9	.051	6.25	y	9	325.473	340.599	56.228	119.641	1 H1-1a
376	M524		0	7	.076	6.25	y	7	362.732	379.401	62.874	134.012	1 H1-1a
377	M525		0	5	.078	6.25	y	5	362.732	379.401	62.874	134.012	1 H1-1a
378	M526		0	3	.076	6.25	y	3	362.732	379.401	62.874	134.012	1 H1-1a
379	M527		0	9	.075	6.25	y	9	362.732	379.401	62.874	134.012	1 H1-1a
380	M605		25	7	.072	6.25	y	7	412.497	431.138	72.036	153.234	1 H1-1a
381	M606		25	5	.073	6.25	y	5	412.497	431.138	72.036	153.234	1 H1-1a
382	M607		25	3	.072	6.25	y	3	412.497	431.138	72.036	153.234	1 H1-1a
383	M608		25	9	.071	6.25	y	9	412.497	431.138	72.036	153.234	1 H1-1a
384	M686		0	7	.165	6.148	y	7	484.962	500.12	97.545	213.772	1 H1-1a
385	M687		0	5	.170	6.148	y	5	484.962	500.12	97.545	213.772	1 H1-1a
386	M688		0	3	.168	6.148	y	3	484.962	500.12	97.545	213.772	1 H1-1a
387	M689		0	9	.165	6.148	y	9	484.962	500.12	97.545	213.772	1 H1-1a
388	M739A		3.108	3	.001	0	y	5	14.939	48.503	1.235	2.904	1 H2-1

Company : GPD Group
Designer : awestrum
Job Number : 2012856.72

TAG0053 CHESHIRE

Aug 13, 2012
6:53 PM
Checked By:

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

Member	Shape	Code Check	Loc[ft]	LC	Shear Ch...	Loc[ft]	Dir	LC	Pnc/om [k]	Pnt/om [k]	Mnyy/om [k-...	Mnzz/om [k-...	Cb	Eqn
389	M740A	L2.5X2.5X8	.863	3.55	4	.001	0	Y	12	14.213	48.503	1.235	2.893	1 H2-1
390	M743A	L2.5X2.5X8	.868	3.133	9	.001	0	Y	18	14.213	48.503	1.235	2.893	1 H2-1
391	M744A	L2.5X2.5X8	1.030	3.523	9	.001	0	Y	13	14.939	48.503	1.235	2.904	1 H2-1
392	M747A	L2.5X2.5X8	.991	3.108	7	.001	0	Y	10	14.939	48.503	1.235	2.904	1 H2-1
393	M748A	L2.5X2.5X8	.929	3.55	8	.001	0	Y	4	14.213	48.503	1.235	2.893	1 H2-1
394	M751A	L2.5X2.5X8	.942	3.133	4	.001	6.683	Y	4	14.213	48.503	1.235	2.893	1 H2-1
395	M752A	L2.5X2.5X8	1.050	3.523	5	.001	6.631	Y	7	14.939	48.503	1.235	2.904	1 H2-1
396	M56	2L2 1/2x2 1/2x3/16x3/8	.082	5.225	13	.004	0	Y	14	11.109	38.802	2.672	1.737	1 H1-1b
397	M64	2L2 1/2x2 1/2x3/16x3/8	.082	5.225	17	.004	10.45	Y	18	11.109	38.802	2.672	1.737	1 H1-1b
398	M72	2L2 1/2x2 1/2x3/16x3/8	.082	5.225	11	.004	10.45	Y	18	11.109	38.802	2.672	1.737	1 H1-1b
399	M80	2L2 1/2x2 1/2x3/16x3/8	.082	5.225	15	.004	0	Y	14	11.109	38.802	2.672	1.737	1 H1-1b
400	M88	2L2 1/2x2 1/2x3/16x3/8	.081	5.225	17	.004	0	Y	13	11.109	38.802	2.672	1.737	1 H1-1b
401	M96	2L2 1/2x2 1/2x3/16x3/8	.081	5.225	13	.004	10.45	Y	14	11.109	38.802	2.672	1.737	1 H1-1b
402	M104	2L2 1/2x2 1/2x3/16x3/8	.082	5.225	15	.004	0	Y	16	11.109	38.802	2.672	1.737	1 H1-1b
403	M112	2L2 1/2x2 1/2x3/16x3/8	.081	5.225	11	.004	10.45	Y	16	11.109	38.802	2.672	1.737	1 H1-1b
404	M129	2L2 1/2x2 1/2x3/16x3/8	.080	5.225	13	.004	10.45	Y	13	11.109	38.802	2.672	1.737	1 H1-1b
405	M137	2L2 1/2x2 1/2x3/16x3/8	.080	5.225	17	.004	0	Y	16	11.109	38.802	2.672	1.737	1 H1-1b
406	M146	2L2 1/2x2 1/2x3/16x3/8	.080	5.225	12	.004	10.45	Y	18	11.109	38.802	2.672	1.737	1 H1-1b
407	M154	2L2 1/2x2 1/2x3/16x3/8	.080	5.225	15	.004	10.45	Y	16	11.109	38.802	2.672	1.737	1 H1-1b
408	M163	2L2 1/2x2 1/2x3/16x3/8	.080	5.225	18	.004	10.45	Y	16	11.109	38.802	2.672	1.737	1 H1-1b
409	M171	2L2 1/2x2 1/2x3/16x3/8	.080	5.225	14	.004	0	Y	15	11.109	38.802	2.672	1.737	1 H1-1b
410	M180	2L2 1/2x2 1/2x3/16x3/8	.080	5.225	14	.004	10.45	Y	14	11.109	38.802	2.672	1.737	1 H1-1b
411	M188	2L2 1/2x2 1/2x3/16x3/8	.080	5.225	18	.004	10.45	Y	18	11.109	38.802	2.672	1.737	1 H1-1b
412	M210	2L2 1/2x2 1/2x3/16x3/8	.080	5.225	12	.004	10.45	Y	15	11.109	38.802	2.672	1.737	1 H1-1b
413	M218	2L2 1/2x2 1/2x3/16x3/8	.080	5.225	17	.004	0	Y	17	11.109	38.802	2.672	1.737	1 H1-1b
414	M227	2L2 1/2x2 1/2x3/16x3/8	.080	5.225	11	.004	10.45	Y	18	11.109	38.802	2.672	1.737	1 H1-1b
415	M235	2L2 1/2x2 1/2x3/16x3/8	.081	5.225	15	.004	10.45	Y	14	11.109	38.802	2.672	1.737	1 H1-1b
416	M244	2L2 1/2x2 1/2x3/16x3/8	.080	5.225	17	.004	10.45	Y	13	11.109	38.802	2.672	1.737	1 H1-1b
417	M252	2L2 1/2x2 1/2x3/16x3/8	.080	5.225	14	.004	0	Y	13	11.109	38.802	2.672	1.737	1 H1-1b
418	M261	2L2 1/2x2 1/2x3/16x3/8	.080	5.225	15	.004	10.45	Y	15	11.109	38.802	2.672	1.737	1 H1-1b
419	M269	2L2 1/2x2 1/2x3/16x3/8	.080	5.225	11	.004	0	Y	10	11.109	38.802	2.672	1.737	1 H1-1b
420	M291	2L2 1/2x2 1/2x3/16x3/8	.078	5.225	18	.004	0	Y	16	11.332	38.802	2.672	1.737	1 H1-1b
421	M299	2L2 1/2x2 1/2x3/16x3/8	.078	5.225	14	.004	0	Y	17	11.332	38.802	2.672	1.737	1 H1-1b
422	M308	2L2 1/2x2 1/2x3/16x3/8	.078	5.225	14	.004	0	Y	11	11.332	38.802	2.672	1.737	1 H1-1b
423	M316	2L2 1/2x2 1/2x3/16x3/8	.078	5.225	18	.004	0	Y	16	11.332	38.802	2.672	1.737	1 H1-1b
424	M325	2L2 1/2x2 1/2x3/16x3/8	.079	5.225	13	.004	0	Y	18	11.332	38.802	2.672	1.737	1 H1-1b
425	M333	2L2 1/2x2 1/2x3/16x3/8	.079	5.225	16	.004	10.45	Y	12	11.332	38.802	2.672	1.737	1 H1-1b
426	M342	2L2 1/2x2 1/2x3/16x3/8	.079	5.225	12	.004	0	Y	17	11.332	38.802	2.672	1.737	1 H1-1b
427	M350	2L2 1/2x2 1/2x3/16x3/8	.078	5.225	15	.004	10.45	Y	17	11.332	38.802	2.672	1.737	1 H1-1b
428	M372	2L2 1/2x2 1/2x3/16x3/8	.078	5.225	12	.004	0	Y	12	11.332	38.802	2.672	1.737	1 H1-1b
429	M380	2L2 1/2x2 1/2x3/16x3/8	.078	5.116	14	.004	10.45	Y	17	11.332	38.802	2.672	1.737	1 H1-1b

Company : GPD Group
Designer : awestrum
Job Number : 2012856.72

Aug 13, 2012
6:53 PM
Checked By:

TAG0053 CHESHIRE

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

Member	Shape	Code Check	Locfll	LC	Shear Ch...	Locfll	Dir	LC	Pnc/om [kl	Pnt/om [kl	Mnw/om [k...	Mnzz/om [k...	Cb	Ean
430	M389	2L2 1/2x2 1/2x3/16x3/8	.078	5.116	14 .004	0	Y	15	11.332	38.802	2.672	1.737	1	H1-1b
431	M397	2L2 1/2x2 1/2x3/16x3/8	.078	5.225	16 .004	10.45	Y	16	11.332	38.802	2.672	1.737	1	H1-1b
432	M406	2L2 1/2x2 1/2x3/16x3/8	.078	5.225	16 .004	0	Y	17	11.332	38.802	2.672	1.737	1	H1-1b
433	M414	2L2 1/2x2 1/2x3/16x3/8	.078	5.225	14 .004	10.45	Y	17	11.332	38.802	2.672	1.737	1	H1-1b
434	M423	2L2 1/2x2 1/2x3/16x3/8	.078	5.225	14 .004	0	Y	14	11.332	38.802	2.672	1.737	1	H1-1b
435	M431	2L2 1/2x2 1/2x3/16x3/8	.078	5.225	12 .004	10.45	Y	12	11.332	38.802	2.672	1.737	1	H1-1b
436	M453	2L2 1/2x2 1/2x3/16x3/8	.087	5.116	15 .004	10.45	Y	13	11.538	38.802	2.672	1.737	1	H1-1b
437	M461	2L2 1/2x2 1/2x3/16x3/8	.088	5.116	15 .004	0	Y	15	11.538	38.802	2.672	1.737	1	H1-1b
438	M470	2L2 1/2x2 1/2x3/16x3/8	.088	5.116	13 .004	0	Y	10	11.538	38.802	2.672	1.737	1	H1-1b
439	M478	2L2 1/2x2 1/2x3/16x3/8	.086	5.116	13 .004	10.45	Y	16	11.538	38.802	2.672	1.737	1	H1-1b
440	M487	2L2 1/2x2 1/2x3/16x3/8	.086	5.116	11 .004	10.45	Y	16	11.538	38.802	2.672	1.737	1	H1-1b
441	M495	2L2 1/2x2 1/2x3/16x3/8	.084	5.116	11 .004	0	Y	17	11.538	38.802	2.672	1.737	1	H1-1b
442	M504	2L2 1/2x2 1/2x3/16x3/8	.084	5.116	17 .004	10.45	Y	16	11.538	38.802	2.672	1.737	1	H1-1b
443	M512	2L2 1/2x2 1/2x3/16x3/8	.086	5.116	17 .004	0	Y	12	11.538	38.802	2.672	1.737	1	H1-1b
444	M534	2L2 1/2x2 1/2x3/16x3/8	.095	5.116	16 .004	10.45	Y	10	11.562	38.802	2.672	1.737	1	H1-1b
445	M542	2L2 1/2x2 1/2x3/16x3/8	.097	5.116	14 .004	10.45	Y	15	11.562	38.802	2.672	1.737	1	H1-1b
446	M551	2L2 1/2x2 1/2x3/16x3/8	.096	5.116	14 .004	10.45	Y	13	11.562	38.802	2.672	1.737	1	H1-1b
447	M559	2L2 1/2x2 1/2x3/16x3/8	.094	5.116	12 .004	10.45	Y	15	11.562	38.802	2.672	1.737	1	H1-1b
448	M568	2L2 1/2x2 1/2x3/16x3/8	.093	5.116	12 .004	0	Y	11	11.562	38.802	2.672	1.737	1	H1-1b
449	M576	2L2 1/2x2 1/2x3/16x3/8	.092	5.116	18 .004	0	Y	11	11.562	38.802	2.672	1.737	1	H1-1b
450	M585	2L2 1/2x2 1/2x3/16x3/8	.091	5.116	18 .004	0	Y	15	11.562	38.802	2.672	1.737	1	H1-1b
451	M593	2L2 1/2x2 1/2x3/16x3/8	.094	5.116	16 .004	10.45	Y	12	11.562	38.802	2.672	1.737	1	H1-1b
452	M615	2L2 1/2x2 1/2x3/16x3/8	.095	5.116	15 .004	0	Y	12	11.585	38.802	2.672	1.737	1	H1-1b
453	M623	2L2 1/2x2 1/2x3/16x3/8	.096	5.116	15 .004	0	Y	16	11.585	38.802	2.672	1.737	1	H1-1b
454	M632	2L2 1/2x2 1/2x3/16x3/8	.090	5.116	14 .004	10.45	Y	12	11.585	38.802	2.672	1.737	1	H1-1b
455	M640	2L2 1/2x2 1/2x3/16x3/8	.089	5.116	12 .004	0	Y	16	11.585	38.802	2.672	1.737	1	H1-1b
456	M649	2L2 1/2x2 1/2x3/16x3/8	.093	5.116	11 .004	0	Y	17	11.585	38.802	2.672	1.737	1	H1-1b
457	M657	2L2 1/2x2 1/2x3/16x3/8	.091	5.116	11 .004	0	Y	14	11.585	38.802	2.672	1.737	1	H1-1b
458	M666	2L2 1/2x2 1/2x3/16x3/8	.086	5.116	18 .004	0	Y	13	11.585	38.802	2.672	1.737	1	H1-1b
459	M674	2L2 1/2x2 1/2x3/16x3/8	.089	5.116	16 .004	0	Y	11	11.585	38.802	2.672	1.737	1	H1-1b
460	M696	2L2 1/2x2 1/2x1/4x3/8	.121	5.076	7 .004	0	Y	14	16.828	51.305	3.58	2.271	1	H1-1b
461	M706	2L2 1/2x2 1/2x1/4x3/8	.127	5.076	5 .004	0	Y	16	16.828	51.305	3.58	2.271	1	H1-1b
462	M717	2L2 1/2x2 1/2x1/4x3/8	.106	5.127	14 .004	10.254	Y	18	16.467	51.305	3.58	2.271	1	H1-1b
463	M727	2L2 1/2x2 1/2x1/4x3/8	.102	5.127	12 .004	0	Y	15	16.467	51.305	3.58	2.271	1	H1-1b
464	M738	2L2 1/2x2 1/2x1/4x3/8	.128	5.076	3 .004	0	Y	10	16.828	51.305	3.58	2.271	1	H1-1b
465	M748	2L2 1/2x2 1/2x1/4x3/8	.123	5.076	9 .004	0	Y	12	16.828	51.305	3.58	2.271	1	H1-1b
466	M759	2L2 1/2x2 1/2x1/4x3/8	.102	5.127	9 .004	10.254	Y	15	16.467	51.305	3.58	2.271	1	H1-1b
467	M769	2L2 1/2x2 1/2x1/4x3/8	.104	5.127	16 .004	10.254	Y	18	16.467	51.305	3.58	2.271	1	H1-1b
468	M57	2L2 1/2x2 1/2x1/4x3/8	.111	5.116	14 .004	10.45	Y	17	14.371	51.305	3.58	2.271	1	H1-1b
469	M58	2L2 1/2x2 1/2x1/4x3/8	.034	3.683	17 .002	0	Y	12	26.463	51.305	3.58	2.271	1	H1-1b
470	M65	2L2 1/2x2 1/2x1/4x3/8	.111	5.116	16 .004	0	Y	14	14.371	51.305	3.58	2.271	1	H1-1b

Company : GPD Group
Designer : awestrum
Job Number : 2012856.72

TAG0053 CHESHIRE

Aug 13, 2012
6:53 PM
Checked By:

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

Member	Shape	Code Check	Loc[ft]	LC	Shear Ch...	Loc[ft]	Dir	LC	Pnc/om [k]	Pnt/om [k]	Mnyy/om [k-...	Mnzz/om [k-...	Cb	Eqn
471	M66	2L2 1/2x2 1/2x1/4x3/8	.034	3.683	13	.002	7.523	Y	13	26.463	51.305	3.58	2.271	1 H1-1b
472	M73	2L2 1/2x2 1/2x1/4x3/8	.111	5.116	12	.004	0	Y	14	14.371	51.305	3.58	2.271	1 H1-1b
473	M74	2L2 1/2x2 1/2x1/4x3/8	.034	3.683	15	.002	0	Y	11	26.463	51.305	3.58	2.271	1 H1-1b
474	M81	2L2 1/2x2 1/2x1/4x3/8	.110	5.116	14	.004	0	Y	18	14.371	51.305	3.58	2.271	1 H1-1b
475	M82	2L2 1/2x2 1/2x1/4x3/8	.034	3.683	12	.002	7.523	Y	15	26.463	51.305	3.58	2.271	1 H1-1b
476	M89	2L2 1/2x2 1/2x1/4x3/8	.110	5.116	18	.004	10.45	Y	13	14.371	51.305	3.58	2.271	1 H1-1b
477	M90	2L2 1/2x2 1/2x1/4x3/8	.033	3.683	13	.002	0	Y	11	26.463	51.305	3.58	2.271	1 H1-1b
478	M97	2L2 1/2x2 1/2x1/4x3/8	.110	5.116	12	.004	10.45	Y	18	14.371	51.305	3.58	2.271	1 H1-1b
479	M98	2L2 1/2x2 1/2x1/4x3/8	.033	3.683	17	.002	0	Y	14	26.463	51.305	3.58	2.271	1 H1-1b
480	M105	2L2 1/2x2 1/2x1/4x3/8	.110	5.116	16	.004	10.45	Y	14	14.371	51.305	3.58	2.271	1 H1-1b
481	M106	2L2 1/2x2 1/2x1/4x3/8	.033	3.683	18	.002	0	Y	18	26.463	51.305	3.58	2.271	1 H1-1b
482	M113	2L2 1/2x2 1/2x1/4x3/8	.111	5.116	18	.004	0	Y	11	14.371	51.305	3.58	2.271	1 H1-1b
483	M114	2L2 1/2x2 1/2x1/4x3/8	.033	3.683	15	.002	0	Y	12	26.463	51.305	3.58	2.271	1 H1-1b
484	M130	2L2 1/2x2 1/2x1/4x3/8	.089	5.116	13	.004	0	Y	16	14.371	51.305	3.58	2.271	1 H1-1b
485	M131	2L2 1/2x2 1/2x1/4x3/8	.028	3.683	17	.002	7.523	Y	12	26.463	51.305	3.58	2.271	1 H1-1b
486	M138	2L2 1/2x2 1/2x1/4x3/8	.088	5.116	17	.004	0	Y	14	14.371	51.305	3.58	2.271	1 H1-1b
487	M139	2L2 1/2x2 1/2x1/4x3/8	.028	3.683	13	.002	0	Y	18	26.463	51.305	3.58	2.271	1 H1-1b
488	M147	2L2 1/2x2 1/2x1/4x3/8	.088	5.116	11	.004	0	Y	13	14.371	51.305	3.58	2.271	1 H1-1b
489	M148	2L2 1/2x2 1/2x1/4x3/8	.027	3.683	15	.002	0	Y	12	26.463	51.305	3.58	2.271	1 H1-1b
490	M155	2L2 1/2x2 1/2x1/4x3/8	.088	5.116	15	.004	0	Y	14	14.371	51.305	3.58	2.271	1 H1-1b
491	M156	2L2 1/2x2 1/2x1/4x3/8	.027	3.683	11	.002	0	Y	14	26.463	51.305	3.58	2.271	1 H1-1b
492	M164	2L2 1/2x2 1/2x1/4x3/8	.087	5.116	17	.004	10.45	Y	13	14.371	51.305	3.58	2.271	1 H1-1b
493	M165	2L2 1/2x2 1/2x1/4x3/8	.027	3.683	13	.002	7.523	Y	16	26.463	51.305	3.58	2.271	1 H1-1b
494	M172	2L2 1/2x2 1/2x1/4x3/8	.088	5.116	13	.004	10.45	Y	18	14.371	51.305	3.58	2.271	1 H1-1b
495	M173	2L2 1/2x2 1/2x1/4x3/8	.027	3.683	17	.002	0	Y	12	26.463	51.305	3.58	2.271	1 H1-1b
496	M181	2L2 1/2x2 1/2x1/4x3/8	.088	5.116	15	.004	0	Y	18	14.371	51.305	3.58	2.271	1 H1-1b
497	M182	2L2 1/2x2 1/2x1/4x3/8	.027	3.683	11	.002	7.523	Y	13	26.463	51.305	3.58	2.271	1 H1-1b
498	M189	2L2 1/2x2 1/2x1/4x3/8	.088	5.116	11	.004	10.45	Y	18	14.371	51.305	3.58	2.271	1 H1-1b
499	M190	2L2 1/2x2 1/2x1/4x3/8	.027	3.683	15	.002	0	Y	18	26.463	51.305	3.58	2.271	1 H1-1b
500	M211	2L2 1/2x2 1/2x1/4x3/8	.085	5.116	12	.004	0	Y	13	14.371	51.305	3.58	2.271	1 H1-1b
501	M212	2L2 1/2x2 1/2x1/4x3/8	.028	3.683	16	.002	7.523	Y	10	26.463	51.305	3.58	2.271	1 H1-1b
502	M219	2L2 1/2x2 1/2x1/4x3/8	.084	5.116	17	.004	10.45	Y	13	14.371	51.305	3.58	2.271	1 H1-1b
503	M220	2L2 1/2x2 1/2x1/4x3/8	.027	3.683	13	.002	0	Y	17	26.463	51.305	3.58	2.271	1 H1-1b
504	M228	2L2 1/2x2 1/2x1/4x3/8	.084	5.116	11	.004	10.45	Y	14	14.371	51.305	3.58	2.271	1 H1-1b
505	M229	2L2 1/2x2 1/2x1/4x3/8	.027	3.683	15	.002	0	Y	13	26.463	51.305	3.58	2.271	1 H1-1b
506	M236	2L2 1/2x2 1/2x1/4x3/8	.085	5.116	16	.004	0	Y	12	14.371	51.305	3.58	2.271	1 H1-1b
507	M237	2L2 1/2x2 1/2x1/4x3/8	.027	3.683	12	.002	0	Y	13	26.463	51.305	3.58	2.271	1 H1-1b
508	M245	2L2 1/2x2 1/2x1/4x3/8	.084	5.116	17	.004	0	Y	14	14.371	51.305	3.58	2.271	1 H1-1b
509	M246	2L2 1/2x2 1/2x1/4x3/8	.026	3.683	13	.002	0	Y	13	26.463	51.305	3.58	2.271	1 H1-1b
510	M253	2L2 1/2x2 1/2x1/4x3/8	.085	5.116	14	.004	10.45	Y	14	14.371	51.305	3.58	2.271	1 H1-1b
511	M254	2L2 1/2x2 1/2x1/4x3/8	.027	3.683	18	.002	0	Y	12	26.463	51.305	3.58	2.271	1 H1-1b

Company : GPD Group
Designer : awestrum
Job Number : 2012856.72

TAG0053 CHESHIRE

Aug 13, 2012
6:53 PM
Checked By:

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

Member	Shape	Code Check	Locftl	LC	Shear Ch...	Locftl	Dir	LC	Pnc/om [kl]	Pnt/om [kl]	Mnvy/om [k...	Mnzz/om [k...	Ic...Cb	Eqn
512	M262	2L2 1/2x2 1/2x1/4x3/8	.085	5.116	14	.004	10.45	Y 18	14.371	51.305	3.58	2.271	1	H1-1b
513	M263	2L2 1/2x2 1/2x1/4x3/8	.027	3.683	18	.002	0	Y 14	26.463	51.305	3.58	2.271	1	H1-1b
514	M270	2L2 1/2x2 1/2x1/4x3/8	.084	5.116	11	.004	0	Y 15	14.371	51.305	3.58	2.271	1	H1-1b
515	M271	2L2 1/2x2 1/2x1/4x3/8	.027	3.683	15	.002	7.523	Y 11	26.463	51.305	3.58	2.271	1	H1-1b
516	M292	2L2 1/2x2 1/2x1/4x3/8	.083	5.116	12	.004	10.45	Y 16	14.659	51.305	3.58	2.271	1	H1-1b
517	M293	2L2 1/2x2 1/2x1/4x3/8	.030	3.683	16	.002	0	Y 12	26.951	51.305	3.58	2.271	1	H1-1b
518	M300	2L2 1/2x2 1/2x1/4x3/8	.082	5.116	18	.004	10.45	Y 14	14.659	51.305	3.58	2.271	1	H1-1b
519	M301	2L2 1/2x2 1/2x1/4x3/8	.029	3.683	14	.002	0	Y 17	26.951	51.305	3.58	2.271	1	H1-1b
520	M309	2L2 1/2x2 1/2x1/4x3/8	.082	5.116	18	.004	10.45	Y 14	14.659	51.305	3.58	2.271	1	H1-1b
521	M310	2L2 1/2x2 1/2x1/4x3/8	.029	3.683	14	.002	0	Y 14	26.951	51.305	3.58	2.271	1	H1-1b
522	M317	2L2 1/2x2 1/2x1/4x3/8	.083	5.116	16	.004	10.45	Y 11	14.659	51.305	3.58	2.271	1	H1-1b
523	M318	2L2 1/2x2 1/2x1/4x3/8	.029	3.683	12	.002	0	Y 14	26.951	51.305	3.58	2.271	1	H1-1b
524	M326	2L2 1/2x2 1/2x1/4x3/8	.082	5.116	16	.004	10.45	Y 13	14.659	51.305	3.58	2.271	1	H1-1b
525	M327	2L2 1/2x2 1/2x1/4x3/8	.029	3.683	12	.002	0	Y 13	26.951	51.305	3.58	2.271	1	H1-1b
526	M334	2L2 1/2x2 1/2x1/4x3/8	.084	5.116	14	.004	0	Y 15	14.659	51.305	3.58	2.271	1	H1-1b
527	M335	2L2 1/2x2 1/2x1/4x3/8	.029	3.683	18	.002	0	Y 15	26.951	51.305	3.58	2.271	1	H1-1b
528	M343	2L2 1/2x2 1/2x1/4x3/8	.084	5.116	14	.004	10.45	Y 11	14.659	51.305	3.58	2.271	1	H1-1b
529	M344	2L2 1/2x2 1/2x1/4x3/8	.029	3.683	18	.002	0	Y 14	26.951	51.305	3.58	2.271	1	H1-1b
530	M351	2L2 1/2x2 1/2x1/4x3/8	.082	5.116	12	.004	0	Y 15	14.659	51.305	3.58	2.271	1	H1-1b
531	M352	2L2 1/2x2 1/2x1/4x3/8	.029	3.683	16	.002	7.523	Y 13	26.951	51.305	3.58	2.271	1	H1-1b
532	M373	2L2 1/2x2 1/2x1/4x3/8	.081	5.116	12	.004	10.45	Y 18	14.659	51.305	3.58	2.271	1	H1-1b
533	M374	2L2 1/2x2 1/2x1/4x3/8	.031	3.683	16	.002	7.523	Y 13	26.951	51.305	3.58	2.271	1	H1-1b
534	M381	2L2 1/2x2 1/2x1/4x3/8	.079	5.116	18	.004	0	Y 16	14.659	51.305	3.58	2.271	1	H1-1b
535	M382	2L2 1/2x2 1/2x1/4x3/8	.031	3.683	14	.002	7.523	Y 17	26.951	51.305	3.58	2.271	1	H1-1b
536	M390	2L2 1/2x2 1/2x1/4x3/8	.079	5.116	18	.004	10.45	Y 15	14.659	51.305	3.58	2.271	1	H1-1b
537	M391	2L2 1/2x2 1/2x1/4x3/8	.031	3.683	14	.002	7.523	Y 14	26.951	51.305	3.58	2.271	1	H1-1b
538	M398	2L2 1/2x2 1/2x1/4x3/8	.081	5.116	16	.004	0	Y 12	14.659	51.305	3.58	2.271	1	H1-1b
539	M399	2L2 1/2x2 1/2x1/4x3/8	.031	3.683	12	.002	7.523	Y 15	26.951	51.305	3.58	2.271	1	H1-1b
540	M407	2L2 1/2x2 1/2x1/4x3/8	.080	5.116	15	.004	0	Y 12	14.659	51.305	3.58	2.271	1	H1-1b
541	M408	2L2 1/2x2 1/2x1/4x3/8	.030	3.683	11	.002	7.523	Y 17	26.951	51.305	3.58	2.271	1	H1-1b
542	M415	2L2 1/2x2 1/2x1/4x3/8	.082	5.116	15	.004	10.45	Y 12	14.659	51.305	3.58	2.271	1	H1-1b
543	M416	2L2 1/2x2 1/2x1/4x3/8	.030	3.683	11	.002	7.523	Y 13	26.951	51.305	3.58	2.271	1	H1-1b
544	M424	2L2 1/2x2 1/2x1/4x3/8	.082	5.116	13	.004	0	Y 14	14.659	51.305	3.58	2.271	1	H1-1b
545	M425	2L2 1/2x2 1/2x1/4x3/8	.030	3.683	18	.002	7.523	Y 14	26.951	51.305	3.58	2.271	1	H1-1b
546	M432	2L2 1/2x2 1/2x1/4x3/8	.081	5.116	13	.004	0	Y 18	14.659	51.305	3.58	2.271	1	H1-1b
547	M433	2L2 1/2x2 1/2x1/4x3/8	.031	3.683	17	.002	0	Y 11	26.951	51.305	3.58	2.271	1	H1-1b
548	M454	2L2 1/2x2 1/2x1/4x3/8	.079	5.116	11	.004	0	Y 17	14.926	51.305	3.58	2.271	1	H1-1b
549	M455	2L2 1/2x2 1/2x1/4x3/8	.033	3.683	16	.002	7.523	Y 16	27.392	51.305	3.58	2.271	1	H1-1b
550	M462	2L2 1/2x2 1/2x1/4x3/8	.077	5.116	11	.004	0	Y 12	14.926	51.305	3.58	2.271	1	H1-1b
551	M463	2L2 1/2x2 1/2x1/4x3/8	.034	3.683	14	.002	0	Y 16	27.392	51.305	3.58	2.271	1	H1-1b
552	M471	2L2 1/2x2 1/2x1/4x3/8	.077	5.116	17	.004	10.45	Y 16	14.926	51.305	3.58	2.271	1	H1-1b

Company : GPD Group
Designer : awestrum
Job Number : 2012856.72

Aug 13, 2012
6:53 PM
Checked By:

TAG0053 CHESHIRE

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

Member	Shape	Code Check	Loc[ft]	LC	Shear Ch...	Loc[ft]	Dir	LC	Pnc/om [k]	Pnt/om [k]	Mnyy/om [k-...	Mnzz/om [k-...	Cb	Eqn
553	M472	2L2 1/2x2 1/2x1/4x3/8	.034	3.683	14	.002	7.523	Y	11	27.392	51.305	3.58	2.271	1 H1-1b
554	M479	2L2 1/2x2 1/2x1/4x3/8	.079	5.116	17	.004	10.45	Y	13	14.926	51.305	3.58	2.271	1 H1-1b
555	M480	2L2 1/2x2 1/2x1/4x3/8	.033	3.683	12	.002	7.523	Y	15	27.392	51.305	3.58	2.271	1 H1-1b
556	M488	2L2 1/2x2 1/2x1/4x3/8	.079	5.116	15	.004	10.45	Y	17	14.926	51.305	3.58	2.271	1 H1-1b
557	M489	2L2 1/2x2 1/2x1/4x3/8	.033	3.683	11	.002	0	Y	17	27.392	51.305	3.58	2.271	1 H1-1b
558	M496	2L2 1/2x2 1/2x1/4x3/8	.081	5.116	15	.004	0	Y	17	14.926	51.305	3.58	2.271	1 H1-1b
559	M497	2L2 1/2x2 1/2x1/4x3/8	.032	3.683	18	.002	7.523	Y	15	27.392	51.305	3.58	2.271	1 H1-1b
560	M505	2L2 1/2x2 1/2x1/4x3/8	.080	5.116	13	.004	10.45	Y	11	14.926	51.305	3.58	2.271	1 H1-1b
561	M506	2L2 1/2x2 1/2x1/4x3/8	.032	3.683	17	.002	0	Y	14	27.392	51.305	3.58	2.271	1 H1-1b
562	M513	2L2 1/2x2 1/2x1/4x3/8	.079	5.116	13	.004	0	Y	15	14.926	51.305	3.58	2.271	1 H1-1b
563	M514	2L2 1/2x2 1/2x1/4x3/8	.033	3.683	17	.002	0	Y	18	27.392	51.305	3.58	2.271	1 H1-1b
564	M535	2L2 1/2x2 1/2x1/4x3/8	.081	5.116	11	.004	0	Y	18	14.956	51.305	3.58	2.271	1 H1-1b
565	M536	2L2 1/2x2 1/2x1/4x3/8	.036	3.683	15	.002	0	Y	15	27.441	51.305	3.58	2.271	1 H1-1b
566	M543	2L2 1/2x2 1/2x1/4x3/8	.077	5.116	11	.004	10.45	Y	13	14.956	51.305	3.58	2.271	1 H1-1b
567	M544	2L2 1/2x2 1/2x1/4x3/8	.036	3.683	15	.002	7.523	Y	18	27.441	51.305	3.58	2.271	1 H1-1b
568	M552	2L2 1/2x2 1/2x1/4x3/8	.077	5.116	17	.004	10.45	Y	10	14.956	51.305	3.58	2.271	1 H1-1b
569	M553	2L2 1/2x2 1/2x1/4x3/8	.036	3.683	13	.002	7.523	Y	18	27.441	51.305	3.58	2.271	1 H1-1b
570	M560	2L2 1/2x2 1/2x1/4x3/8	.079	5.116	17	.004	0	Y	11	14.956	51.305	3.58	2.271	1 H1-1b
571	M561	2L2 1/2x2 1/2x1/4x3/8	.035	3.683	13	.002	7.523	Y	15	27.441	51.305	3.58	2.271	1 H1-1b
572	M569	2L2 1/2x2 1/2x1/4x3/8	.080	5.116	15	.004	10.45	Y	12	14.956	51.305	3.58	2.271	1 H1-1b
573	M570	2L2 1/2x2 1/2x1/4x3/8	.035	3.683	11	.002	7.523	Y	12	27.441	51.305	3.58	2.271	1 H1-1b
574	M577	2L2 1/2x2 1/2x1/4x3/8	.081	5.116	15	.004	0	Y	18	14.956	51.305	3.58	2.271	1 H1-1b
575	M578	2L2 1/2x2 1/2x1/4x3/8	.034	3.683	11	.002	7.523	Y	14	27.441	51.305	3.58	2.271	1 H1-1b
576	M586	2L2 1/2x2 1/2x1/4x3/8	.081	5.116	13	.004	0	Y	14	14.956	51.305	3.58	2.271	1 H1-1b
577	M587	2L2 1/2x2 1/2x1/4x3/8	.034	3.683	17	.002	0	Y	17	27.441	51.305	3.58	2.271	1 H1-1b
578	M594	2L2 1/2x2 1/2x1/4x3/8	.081	5.116	13	.004	10.45	Y	15	14.956	51.305	3.58	2.271	1 H1-1b
579	M595	2L2 1/2x2 1/2x1/4x3/8	.036	3.683	17	.002	7.523	Y	14	27.441	51.305	3.58	2.271	1 H1-1b
580	M616	2L2 1/2x2 1/2x1/4x3/8	.089	5.116	3	.004	10.45	Y	16	14.986	51.305	3.58	2.271	1 H1-1b
581	M617	2L2 1/2x2 1/2x1/4x3/8	.040	3.683	7	.002	0	Y	15	27.49	51.305	3.58	2.271	1 H1-1b
582	M624	2L2 1/2x2 1/2x1/4x3/8	.086	5.116	9	.004	0	Y	14	14.986	51.305	3.58	2.271	1 H1-1b
583	M625	2L2 1/2x2 1/2x1/4x3/8	.039	3.683	5	.002	7.523	Y	16	27.49	51.305	3.58	2.271	1 H1-1b
584	M633	2L2 1/2x2 1/2x1/4x3/8	.084	5.116	9	.004	0	Y	10	14.986	51.305	3.58	2.271	1 H1-1b
585	M634	2L2 1/2x2 1/2x1/4x3/8	.037	3.683	5	.002	7.523	Y	12	27.49	51.305	3.58	2.271	1 H1-1b
586	M641	2L2 1/2x2 1/2x1/4x3/8	.086	5.116	7	.004	0	Y	12	14.986	51.305	3.58	2.271	1 H1-1b
587	M642	2L2 1/2x2 1/2x1/4x3/8	.037	3.683	3	.002	7.523	Y	12	27.49	51.305	3.58	2.271	1 H1-1b
588	M650	2L2 1/2x2 1/2x1/4x3/8	.086	5.116	7	.004	0	Y	11	14.986	51.305	3.58	2.271	1 H1-1b
589	M651	2L2 1/2x2 1/2x1/4x3/8	.039	3.683	3	.002	7.523	Y	16	27.49	51.305	3.58	2.271	1 H1-1b
590	M658	2L2 1/2x2 1/2x1/4x3/8	.088	5.116	5	.004	10.45	Y	17	14.986	51.305	3.58	2.271	1 H1-1b
591	M659	2L2 1/2x2 1/2x1/4x3/8	.039	3.683	9	.002	0	Y	13	27.49	51.305	3.58	2.271	1 H1-1b
592	M667	2L2 1/2x2 1/2x1/4x3/8	.086	5.116	5	.004	10.45	Y	17	14.986	51.305	3.58	2.271	1 H1-1b
593	M668	2L2 1/2x2 1/2x1/4x3/8	.037	3.683	9	.002	0	Y	12	27.49	51.305	3.58	2.271	1 H1-1b

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

Member	Shape	Code Check	Locfl	LC	Shear Ch...	Locfl	Dir	LC	Pnc/om [k]	Pnt/om [k]	Mny/om [k-...	Mnzz/om [k-...	Ic-...Cb	Egn
594	M675	2L2 1/2x2 1/2x1/4x3/8	.086	5.116	3	.004	0	Y	10	14.986	51.305	3.58	2.271	1 H1-1b
595	M676	2L2 1/2x2 1/2x1/4x3/8	.037	3.683	7	.002	0	V	16	27.49	51.305	3.58	2.271	1 H1-1b
596	M698	2L2 1/2x2 1/2x1/4x3/8	.162	6.244	7	.005	0	Y	13	10.5	51.305	3.58	2.271	1 H1-1b
597	M708	2L2 1/2x2 1/2x1/4x3/8	.269	6.114	5	.005	12.489	Y	16	10.5	51.305	3.58	2.271	1 H1-1a
598	M719	2L2 1/2x2 1/2x1/4x3/8	.144	6.3	14	.005	12.6	Y	13	10.306	51.305	3.58	2.271	1 H1-1b
599	M729	2L2 1/2x2 1/2x1/4x3/8	.140	6.3	12	.005	12.6	Y	11	10.306	51.305	3.58	2.271	1 H1-1b
600	M740	2L2 1/2x2 1/2x1/4x3/8	.269	6.114	3	.005	0	Y	18	10.5	51.305	3.58	2.271	1 H1-1a
601	M750	2L2 1/2x2 1/2x1/4x3/8	.259	6.114	9	.005	12.489	Y	12	10.5	51.305	3.58	2.271	1 H1-1a
602	M761	2L2 1/2x2 1/2x1/4x3/8	.137	6.3	18	.005	0	Y	16	10.306	51.305	3.58	2.271	1 H1-1b
603	M771	2L2 1/2x2 1/2x1/4x3/8	.141	6.3	16	.005	12.6	Y	10	10.306	51.305	3.58	2.271	1 H1-1b
604	M699	2L2 1/2x2 1/2x1/4x3/8	.108	5.2	3	.004	10.622	Y	11	12.726	51.305	3.58	2.271	1 H1-1b
605	M700	2L2 1/2x2 1/2x1/4x3/8	.058	3.969	7	.002	0	V	15	22.334	51.305	3.58	2.271	1 H1-1b
606	M709	2L2 1/2x2 1/2x1/4x3/8	.108	5.2	2	.004	10.622	Y	14	12.726	51.305	3.58	2.271	1 H1-1b
607	M710	2L2 1/2x2 1/2x1/4x3/8	.059	3.969	6	.002	8.107	Y	12	22.334	51.305	3.58	2.271	1 H1-1b
608	M720	2L2 1/2x2 1/2x1/4x3/8	.094	5.152	9	.004	10.523	Y	11	12.726	51.305	3.58	2.271	1 H1-1b
609	M721	2L2 1/2x2 1/2x1/4x3/8	.053	4.011	14	.002	0	V	12	22.334	51.305	3.58	2.271	1 H1-1b
610	M730	2L2 1/2x2 1/2x1/4x3/8	.097	5.152	7	.004	10.523	Y	13	12.726	51.305	3.58	2.271	1 H1-1b
611	M731	2L2 1/2x2 1/2x1/4x3/8	.052	4.011	12	.002	8.192	Y	17	22.334	51.305	3.58	2.271	1 H1-1b
612	M741	2L2 1/2x2 1/2x1/4x3/8	.109	5.2	6	.004	10.622	Y	14	12.726	51.305	3.58	2.271	1 H1-1b
613	M742	2L2 1/2x2 1/2x1/4x3/8	.058	3.969	2	.002	0	V	17	22.334	51.305	3.58	2.271	1 H1-1b
614	M751	2L2 1/2x2 1/2x1/4x3/8	.107	5.2	5	.004	0	Y	14	12.726	51.305	3.58	2.271	1 H1-1b
615	M752	2L2 1/2x2 1/2x1/4x3/8	.057	3.969	9	.002	8.107	Y	17	22.334	51.305	3.58	2.271	1 H1-1b
616	M762	2L2 1/2x2 1/2x1/4x3/8	.098	5.152	5	.004	10.523	Y	15	12.726	51.305	3.58	2.271	1 H1-1b
617	M763	2L2 1/2x2 1/2x1/4x3/8	.051	4.011	18	.002	0	Y	14	22.334	51.305	3.58	2.271	1 H1-1b
618	M772	2L2 1/2x2 1/2x1/4x3/8	.098	5.152	3	.004	10.523	Y	13	12.726	51.305	3.58	2.271	1 H1-1b
619	M773	2L2 1/2x2 1/2x1/4x3/8	.052	4.011	16	.002	8.192	Y	11	22.334	51.305	3.58	2.271	1 H1-1b
620	M54	L3X3X3	.054	3.605	16	.003	0	Y	14	7.861	23.497	.878	1.389	1 H2-1
621	M62	L3X3X3	.055	3.605	14	.003	0	Y	17	7.861	23.497	.878	1.389	1 H2-1
622	M70	L3X3X3	.054	3.605	16	.003	7.523	Y	18	7.861	23.497	.878	1.389	1 H2-1
623	M78	L3X3X3	.052	3.84	16	.003	7.523	Y	14	7.861	23.497	.878	1.389	1 H2-1
624	M86	L3X3X3	.052	3.84	13	.003	0	Y	16	7.861	23.497	.878	1.389	1 H2-1
625	M94	L3X3X3	.052	3.84	16	.003	7.523	Y	14	7.861	23.497	.878	1.389	1 H2-1
626	M102	L3X3X3	.053	3.84	13	.003	0	Y	15	7.861	23.497	.878	1.389	1 H2-1
627	M110	L3X3X3	.051	3.605	14	.003	7.523	Y	12	7.861	23.497	.878	1.389	1 H2-1
628	M127	L3X3X3	.087	3.605	16	.003	0	Y	12	7.861	23.497	.878	1.389	1 H2-1
629	M135	L3X3X3	.089	3.605	14	.003	7.523	Y	17	7.861	23.497	.878	1.389	1 H2-1
630	M144	L3X3X3	.090	3.605	14	.003	0	Y	11	7.861	23.497	.878	1.389	1 H2-1
631	M152	L3X3X3	.084	3.605	12	.003	0	Y	13	7.861	23.497	.878	1.389	1 H2-1
632	M161	L3X3X3	.078	3.605	12	.003	0	Y	18	7.861	23.497	.878	1.389	1 H2-1
633	M169	L3X3X3	.077	3.605	18	.003	7.523	Y	12	7.861	23.497	.878	1.389	1 H2-1
634	M178	L3X3X3	.078	3.605	18	.003	7.523	Y	15	7.861	23.497	.878	1.389	1 H2-1

Company : GPD Group
Designer : awestrum
Job Number : 2012856.72

Aug 13, 2012
6:53 PM
Checked By:

TAG0053 CHESHIRE

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

Member		Shape	Code Check		Loc[ft]	LC	Shear Ch...	Loc[ft]	Dir	LC	Pnc/om [k]	Prt/om [k]	Mnyy/om [k-...Mnzz/om [k-...Cb	Eqn		
635	M186	L3X3X3		.083	3.605	15	.003	0	y	10	7.861	23.497	.878	1.389	1	H2-1
636	M208	L3X3X3		.156	3.605	7	.003	7.523	y	15	7.861	23.497	.878	1.389	1	H2-1
637	M216	L3X3X3		.141	3.605	5	.003	7.523	y	16	7.861	23.497	.878	1.389	1	H2-1
638	M225	L3X3X3		.156	3.605	5	.003	7.523	y	12	7.861	23.497	.878	1.389	1	H2-1
639	M233	L3X3X3		.161	3.605	3	.003	7.523	y	15	7.861	23.497	.878	1.389	1	H2-1
640	M242	L3X3X3		.129	3.605	3	.003	7.523	y	10	7.861	23.497	.878	1.389	1	H2-1
641	M250	L3X3X3		.143	3.605	9	.003	0	y	13	7.861	23.497	.878	1.389	1	H2-1
642	M259	L3X3X3		.138	3.605	9	.003	7.523	y	16	7.861	23.497	.878	1.389	1	H2-1
643	M267	L3X3X3		.135	3.605	7	.003	0	y	10	7.861	23.497	.878	1.389	1	H2-1
644	M289	L3X3X3		.165	3.605	6	.003	7.523	y	13	8.182	23.497	.878	1.4	1	H2-1
645	M297	L3X3X3		.167	3.605	6	.003	7.523	y	14	8.182	23.497	.878	1.4	1	H2-1
646	M306	L3X3X3		.165	3.605	4	.003	0	y	10	8.182	23.497	.878	1.4	1	H2-1
647	M314	L3X3X3		.159	3.605	4	.003	7.523	y	14	8.182	23.497	.878	1.4	1	H2-1
648	M323	L3X3X3		.162	3.605	2	.003	7.523	y	10	8.182	23.497	.878	1.4	1	H2-1
649	M331	L3X3X3		.159	3.605	2	.003	0	y	12	8.182	23.497	.878	1.4	1	H2-1
650	M340	L3X3X3		.153	3.605	8	.003	7.523	y	14	8.182	23.497	.878	1.4	1	H2-1
651	M348	L3X3X3		.160	3.605	8	.003	0	y	10	8.182	23.497	.878	1.4	1	H2-1
652	M370	L3X3X3		.262	3.605	7	.003	0	y	16	8.182	23.497	.878	1.4	1	H2-1
653	M378	L3X3X3		.269	3.605	5	.003	0	y	16	8.182	23.497	.878	1.4	1	H2-1
654	M387	L3X3X3		.269	3.605	5	.003	0	y	14	8.182	23.497	.878	1.4	1	H2-1
655	M395	L3X3X3		.258	3.605	3	.003	0	y	16	8.182	23.497	.878	1.4	1	H2-1
656	M404	L3X3X3		.264	3.605	3	.003	7.523	y	18	8.182	23.497	.878	1.4	1	H2-1
657	M412	L3X3X3		.259	3.605	9	.003	0	y	11	8.182	23.497	.878	1.4	1	H2-1
658	M421	L3X3X3		.254	3.605	9	.003	0	y	18	8.182	23.497	.878	1.4	1	H2-1
659	M429	L3X3X3		.262	3.605	7	.003	0	y	14	8.182	23.497	.878	1.4	1	H2-1
660	M451	L3X3X3		.330	3.605	6	.003	0	y	13	8.516	23.497	.878	1.411	1	H2-1
661	M459	L3X3X3		.345	3.605	6	.003	0	y	17	8.516	23.497	.878	1.411	1	H2-1
662	M468	L3X3X3		.339	3.605	4	.003	0	y	11	8.516	23.497	.878	1.411	1	H2-1
663	M476	L3X3X3		.320	3.605	4	.003	7.523	y	15	8.516	23.497	.878	1.411	1	H2-1
664	M485	L3X3X3		.337	3.605	2	.003	7.523	y	18	8.516	23.497	.878	1.411	1	H2-1
665	M493	L3X3X3		.323	3.605	2	.003	7.523	y	12	8.516	23.497	.878	1.411	1	H2-1
666	M502	L3X3X3		.313	3.605	8	.003	7.523	y	11	8.516	23.497	.878	1.411	1	H2-1
667	M510	L3X3X3		.331	3.605	8	.003	0	y	11	8.516	23.497	.878	1.411	1	H2-1
668	M532	L3X3X3		.470	3.605	7	.003	7.523	y	14	8.539	23.497	.878	1.412	1	H2-1
669	M540	L3X3X3		.485	3.605	5	.003	7.523	y	17	8.539	23.497	.878	1.412	1	H2-1
670	M549	L3X3X3		.482	3.605	5	.003	0	y	11	8.539	23.497	.878	1.412	1	H2-1
671	M557	L3X3X3		.465	3.605	3	.003	7.523	y	13	8.539	23.497	.878	1.412	1	H2-1
672	M566	L3X3X3		.481	3.605	3	.003	7.523	y	13	8.539	23.497	.878	1.412	1	H2-1
673	M574	L3X3X3		.472	3.605	9	.003	0	y	14	8.539	23.497	.878	1.412	1	H2-1
674	M583	L3X3X3		.465	3.605	9	.003	0	y	17	8.539	23.497	.878	1.412	1	H2-1
675	M591	L3X3X3		.476	3.605	7	.003	0	y	10	8.539	23.497	.878	1.412	1	H2-1

Company : GPD Group
Designer : awestrum
Job Number : 2012856.72

Aug 13, 2012
6:53 PM
Checked By:

TAG0053 CHESHIRE

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

Member	Shape	Code Check	Locftl	LC	Shear Ch...	Locftl	Dir	LC	Pnc/om [k]	Pnt/om [k]	Mnyv/om [k-...Mnzz/om [k-...Cb	Egn
676	M613	L3X3X3	3.605	7	.003	0	Y	14	8.586	23.497	.878	1.413 1 H2-1
677	M621	L3X3X3	3.605	5	.003	7.523	Y	16	8.586	23.497	.878	1.413 1 H2-1
678	M630	L3X3X3	3.605	5	.003	0	Y	18	8.586	23.497	.878	1.413 1 H2-1
679	M638	L3X3X3	3.605	3	.003	0	Y	12	8.586	23.497	.878	1.413 1 H2-1
680	M647	L3X3X3	3.605	3	.003	7.523	Y	18	8.586	23.497	.878	1.413 1 H2-1
681	M655	L3X3X3	3.605	9	.003	0	Y	12	8.586	23.497	.878	1.413 1 H2-1
682	M664	L3X3X3	3.605	9	.003	0	Y	17	8.586	23.497	.878	1.413 1 H2-1
683	M672	L3X3X3	3.605	7	.003	7.523	Y	17	8.586	23.497	.878	1.413 1 H2-1
684	M694	L3X3X4	3.969	7	.003	8.107	Y	13	11.3	31.042	1.123	2.028 1 H2-1
685	M704	L3X3X4	3.969	5	.003	8.107	Y	17	11.3	31.042	1.123	2.028 1 H2-1
686	M715	L3X3X4	4.011	4	.003	0	Y	11	11.02	31.042	1.123	2.021 1 H2-1
687	M725	L3X3X4	4.011	4	.003	8.192	Y	16	11.02	31.042	1.123	2.021 1 H2-1
688	M736	L3X3X4	3.969	3	.003	8.107	Y	12	11.3	31.042	1.123	2.028 1 H2-1
689	M746	L3X3X4	3.969	9	.003	8.107	Y	11	11.3	31.042	1.123	2.028 1 H2-1
690	M757	L3X3X4	4.011	8	.003	0	Y	17	11.02	31.042	1.123	2.021 1 H2-1
691	M767	L3X3X4	4.011	8	.003	0	Y	17	11.02	31.042	1.123	2.021 1 H2-1
692	M947	LL3x3x3x3	4.911	7	.001	0	Y	14	19.291	46.994	3.69	2.496 1 H1-1b
693	M948	LL3x3x3x3	5.12	3	.001	0	Y	5	19.291	46.994	3.69	2.496 1 H1-1b
694	M953	LL3x3x3x3	4.911	5	.001	0	Y	9	19.291	46.994	3.69	2.496 1 H1-1b
695	M954	LL3x3x3x3	5.12	9	.001	10.031	Y	11	19.291	46.994	3.69	2.496 1 H1-1b
696	M959	LL3x3x3x3	4.911	3	.001	0	Y	6	19.291	46.994	3.69	2.496 1 H1-1b
697	M960	LL3x3x3x3	5.12	7	.001	10.031	Y	8	19.291	46.994	3.69	2.496 1 H1-1b
698	M965	LL3x3x3x3	4.911	9	.001	10.031	Y	9	19.291	46.994	3.69	2.496 1 H1-1b
699	M966	LL3x3x3x3	5.12	5	.001	0	Y	9	19.291	46.994	3.69	2.496 1 H1-1b
700	M923	LL3x3x3x3	4.911	7	.001	10.031	Y	2	19.291	46.994	3.69	2.496 1 H1-1b
701	M924	LL3x3x3x3	5.12	3	.001	0	Y	21	19.291	46.994	3.69	2.496 1 H1-1b
702	M929	LL3x3x3x3	4.911	5	.001	10.031	Y	12	19.291	46.994	3.69	2.496 1 H1-1b
703	M930	LL3x3x3x3	5.12	9	.001	10.031	Y	18	19.291	46.994	3.69	2.496 1 H1-1b
704	M935	LL3x3x3x3	4.911	3	.001	0	Y	2	19.291	46.994	3.69	2.496 1 H1-1b
705	M936	LL3x3x3x3	5.12	7	.001	0	Y	17	19.291	46.994	3.69	2.496 1 H1-1b
706	M941	LL3x3x3x3	4.911	9	.001	0	Y	8	19.291	46.994	3.69	2.496 1 H1-1b
707	M942	LL3x3x3x3	5.12	5	.001	0	Y	7	19.291	46.994	3.69	2.496 1 H1-1b
708	M899	LL3x3x3x3	4.911	7	.001	10.031	Y	5	19.291	46.994	3.69	2.496 1 H1-1b
709	M900	LL3x3x3x3	5.12	3	.001	10.031	Y	5	19.291	46.994	3.69	2.496 1 H1-1b
710	M905	LL3x3x3x3	4.911	5	.001	0	Y	14	19.291	46.994	3.69	2.496 1 H1-1b
711	M906	LL3x3x3x3	5.12	9	.001	0	Y	9	19.291	46.994	3.69	2.496 1 H1-1b
712	M911	LL3x3x3x3	4.911	3	.001	0	Y	9	19.291	46.994	3.69	2.496 1 H1-1b
713	M912	LL3x3x3x3	5.12	7	.001	10.031	Y	7	19.291	46.994	3.69	2.496 1 H1-1b
714	M917	LL3x3x3x3	4.911	9	.001	0	Y	9	19.291	46.994	3.69	2.496 1 H1-1b
715	M918	LL3x3x3x3	5.12	5	.001	10.031	Y	5	19.291	46.994	3.69	2.496 1 H1-1b
716	M875	LL3x3x3x3	4.911	7	.001	10.031	Y	6	19.291	46.994	3.69	2.496 1 H1-1b

Company : GPD Group
Designer : awestrump
Job Number : 2012856.72

TAG0053 CHESHIRE

Aug 13, 2012
6:53 PM
Checked By:

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

Member		Shape	Code Check		Loc[ft]	LC	Shear Ch...	Loc[ft]	Dir	LC	Pnc/om [k]	Pnt/om [k]	Mnyy/om [k-...	Mnzz/om [k-...	Cb	Eqn
717	M876	LL3x3x3x3		.024	5.12	3	.001	10.031	y	3	19.291	46.994	3.69	2.496	1	H1-1b
718	M881	LL3x3x3x3		.024	4.911	5	.001	0	y	7	19.291	46.994	3.69	2.496	1	H1-1b
719	M882	LL3x3x3x3		.024	5.12	9	.001	0	y	3	19.291	46.994	3.69	2.496	1	H1-1b
720	M887	LL3x3x3x3		.024	4.911	3	.001	10.031	y	10	19.291	46.994	3.69	2.496	1	H1-1b
721	M888	LL3x3x3x3		.024	5.12	7	.001	0	y	8	19.291	46.994	3.69	2.496	1	H1-1b
722	M893	LL3x3x3x3		.024	4.911	9	.001	0	y	5	19.291	46.994	3.69	2.496	1	H1-1b
723	M894	LL3x3x3x3		.024	5.12	5	.001	0	y	7	19.291	46.994	3.69	2.496	1	H1-1b
724	M851	LL3x3x3x3		.025	4.911	7	.001	0	y	6	19.291	46.994	3.69	2.496	1	H1-1b
725	M852	LL3x3x3x3		.025	5.12	3	.001	0	y	8	19.291	46.994	3.69	2.496	1	H1-1b
726	M857	LL3x3x3x3		.025	4.911	5	.001	0	y	9	19.291	46.994	3.69	2.496	1	H1-1b
727	M858	LL3x3x3x3		.025	5.12	9	.001	10.031	y	3	19.291	46.994	3.69	2.496	1	H1-1b
728	M863	LL3x3x3x3		.024	4.911	3	.001	10.031	y	5	19.291	46.994	3.69	2.496	1	H1-1b
729	M864	LL3x3x3x3		.024	5.12	7	.001	0	y	18	19.291	46.994	3.69	2.496	1	H1-1b
730	M869	LL3x3x3x3		.025	4.911	9	.001	10.031	y	8	19.291	46.994	3.69	2.496	1	H1-1b
731	M870	LL3x3x3x3		.025	5.12	5	.001	10.031	y	2	19.291	46.994	3.69	2.496	1	H1-1b
732	M827	LL3x3x3x3		.025	4.911	7	.001	0	y	6	19.291	46.994	3.69	2.496	1	H1-1b
733	M828	LL3x3x3x3		.025	5.12	3	.001	0	y	4	19.291	46.994	3.69	2.496	1	H1-1b
734	M833	LL3x3x3x3		.025	4.911	5	.001	10.031	y	4	19.291	46.994	3.69	2.496	1	H1-1b
735	M834	LL3x3x3x3		.025	5.12	9	.001	10.031	y	12	19.291	46.994	3.69	2.496	1	H1-1b
736	M839	LL3x3x3x3		.025	4.911	3	.001	0	y	6	19.291	46.994	3.69	2.496	1	H1-1b
737	M840	LL3x3x3x3		.025	5.12	7	.001	0	y	16	19.291	46.994	3.69	2.496	1	H1-1b
738	M845	LL3x3x3x3		.025	4.911	9	.001	10.031	y	8	19.291	46.994	3.69	2.496	1	H1-1b
739	M846	LL3x3x3x3		.025	5.12	5	.001	10.031	y	6	19.291	46.994	3.69	2.496	1	H1-1b
740	M803	LL3x3x3x3		.026	4.911	7	.001	0	y	13	19.291	46.994	3.69	2.496	1	H1-1b
741	M804	LL3x3x3x3		.026	5.12	3	.001	0	y	14	19.291	46.994	3.69	2.496	1	H1-1b
742	M809	LL3x3x3x3		.026	4.911	5	.001	0	y	3	19.291	46.994	3.69	2.496	1	H1-1b
743	M810	LL3x3x3x3		.026	5.12	9	.001	10.031	y	9	19.291	46.994	3.69	2.496	1	H1-1b
744	M815	LL3x3x3x3		.025	4.911	3	.001	0	y	3	19.291	46.994	3.69	2.496	1	H1-1b
745	M816	LL3x3x3x3		.025	5.12	7	.001	10.031	y	17	19.291	46.994	3.69	2.496	1	H1-1b
746	M821	LL3x3x3x3		.026	4.911	9	.001	0	y	4	19.291	46.994	3.69	2.496	1	H1-1b
747	M822	LL3x3x3x3		.026	5.12	5	.001	10.031	y	3	19.291	46.994	3.69	2.496	1	H1-1b
748	M779	LL3x3x3x3		.042	4.911	16	.003	10.031	y	18	19.291	46.994	3.69	2.496	1	H1-1b
749	M780	LL3x3x3x3		.042	5.12	12	.003	0	y	13	19.291	46.994	3.69	2.496	1	H1-1b
750	M785	LL3x3x3x3		.026	4.911	5	.001	10.031	y	5	19.291	46.994	3.69	2.496	1	H1-1b
751	M786	LL3x3x3x3		.026	5.12	9	.001	0	y	2	19.291	46.994	3.69	2.496	1	H1-1b
752	M791	LL3x3x3x3		.026	4.911	3	.001	10.031	y	11	19.291	46.994	3.69	2.496	1	H1-1b
753	M792	LL3x3x3x3		.026	5.12	7	.001	0	y	17	19.291	46.994	3.69	2.496	1	H1-1b
754	M797	LL3x3x3x3		.026	4.911	9	.001	0	y	8	19.291	46.994	3.69	2.496	1	H1-1b
755	M798	LL3x3x3x3		.026	5.12	5	.001	10.031	y	6	19.291	46.994	3.69	2.496	1	H1-1b
756	M755A	LL3x3x3x3		.040	6.585	5	.002	0	y	18	10.499	46.994	3.69	2.496	1	H1-1b
757	M756A	LL3x3x3x3		.038	7.105	9	.002	0	y	7	10.657	46.994	3.69	2.496	1	H1-1b

Company : GPD Group
Designer : awestrump
Job Number : 2012856.72

Aug 13, 2012
6:53 PM
Checked By:

TAG0053 CHESHIRE

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

Member		Shape	Code Check		Locftl	LC	Shear Ch...	Locftl	Dir	LC	Pnc/om [k]	Pnt/om [k]	Mnyv/om [k-...]	Mnzz/om [k-...]	Cb	Eqn
758	M761A	LL3x3x3x3		.037	6.537	3	.002	13.642	y	12	10.657	46.994	3.69	2.496	1	H1-1b
759	M762A	LL3x3x3x3		.040	7.158	7	.002	13.744	y	17	10.499	46.994	3.69	2.496	1	H1-1b
760	M767A	LL3x3x3x3		.041	6.585	9	.002	0	y	10	10.499	46.994	3.69	2.496	1	H1-1b
761	M768A	LL3x3x3x3		.038	7.105	5	.002	0	y	15	10.657	46.994	3.69	2.496	1	H1-1b
762	M773A	LL3x3x3x3		.038	6.537	7	.002	0	y	12	10.657	46.994	3.69	2.496	1	H1-1b
763	M774A	LL3x3x3x3		.041	7.158	3	.002	0	y	18	10.499	46.994	3.69	2.496	1	H1-1b
764	M949	LL3x3x6x3		.058	5.944	14	.002	12.14	y	6	24.789	90.97	7.565	4.754	1	H1-1b
765	M950	LL3x3x6x3		.058	6.196	14	.002	0	y	4	24.789	90.97	7.565	4.754	1	H1-1b
766	M955	LL3x3x6x3		.058	5.944	12	.002	12.14	y	4	24.789	90.97	7.565	4.754	1	H1-1b
767	M956	LL3x3x6x3		.058	6.196	12	.002	0	y	6	24.789	90.97	7.565	4.754	1	H1-1b
768	M961	LL3x3x6x3		.058	5.944	18	.002	0	y	3	24.789	90.97	7.565	4.754	1	H1-1b
769	M962	LL3x3x6x3		.058	6.196	18	.002	0	y	4	24.789	90.97	7.565	4.754	1	H1-1b
770	M967	LL3x3x6x3		.058	5.944	16	.002	0	y	8	24.789	90.97	7.565	4.754	1	H1-1b
771	M968	LL3x3x6x3		.058	6.196	16	.002	0	y	6	24.789	90.97	7.565	4.754	1	H1-1b
772	M925	LL3x3x6x3		.052	5.944	13	.002	0	y	7	24.789	90.97	7.565	4.754	1	H1-1b
773	M926	LL3x3x6x3		.052	6.196	14	.002	12.14	y	4	24.789	90.97	7.565	4.754	1	H1-1b
774	M931	LL3x3x6x3		.052	5.944	18	.002	0	y	8	24.789	90.97	7.565	4.754	1	H1-1b
775	M932	LL3x3x6x3		.052	6.196	14	.002	12.14	y	2	24.789	90.97	7.565	4.754	1	H1-1b
776	M937	LL3x3x6x3		.052	5.944	18	.002	0	y	2	24.789	90.97	7.565	4.754	1	H1-1b
777	M938	LL3x3x6x3		.052	6.196	11	.002	0	y	4	24.789	90.97	7.565	4.754	1	H1-1b
778	M943	LL3x3x6x3		.052	5.944	16	.002	12.14	y	9	24.789	90.97	7.565	4.754	1	H1-1b
779	M944	LL3x3x6x3		.052	6.196	16	.002	0	y	6	24.789	90.97	7.565	4.754	1	H1-1b
780	M901	LL3x3x6x3		.052	5.944	12	.002	12.14	y	24	24.789	90.97	7.565	4.754	1	H1-1b
781	M902	LL3x3x6x3		.052	6.196	15	.002	0	y	5	24.789	90.97	7.565	4.754	1	H1-1b
782	M907	LL3x3x6x3		.052	5.944	18	.002	0	y	9	24.789	90.97	7.565	4.754	1	H1-1b
783	M908	LL3x3x6x3		.052	6.196	14	.002	12.14	y	9	24.789	90.97	7.565	4.754	1	H1-1b
784	M913	LL3x3x6x3		.052	5.944	17	.002	12.14	y	6	24.789	90.97	7.565	4.754	1	H1-1b
785	M914	LL3x3x6x3		.052	6.196	12	.002	12.14	y	4	24.789	90.97	7.565	4.754	1	H1-1b
786	M919	LL3x3x6x3		.052	5.944	15	.002	12.14	y	9	24.789	90.97	7.565	4.754	1	H1-1b
787	M920	LL3x3x6x3		.052	6.196	17	.002	12.14	y	6	24.789	90.97	7.565	4.754	1	H1-1b
788	M877	LL3x3x6x3		.052	5.944	12	.002	0	y	5	24.789	90.97	7.565	4.754	1	H1-1b
789	M878	LL3x3x6x3		.052	6.196	15	.002	0	y	4	24.789	90.97	7.565	4.754	1	H1-1b
790	M883	LL3x3x6x3		.052	5.944	18	.002	12.14	y	4	24.789	90.97	7.565	4.754	1	H1-1b
791	M884	LL3x3x6x3		.052	6.196	14	.002	0	y	2	24.789	90.97	7.565	4.754	1	H1-1b
792	M889	LL3x3x6x3		.052	5.944	17	.002	12.14	y	9	24.789	90.97	7.565	4.754	1	H1-1b
793	M890	LL3x3x6x3		.052	6.196	12	.002	0	y	3	24.789	90.97	7.565	4.754	1	H1-1b
794	M895	LL3x3x6x3		.052	5.944	15	.002	0	y	8	24.789	90.97	7.565	4.754	1	H1-1b
795	M896	LL3x3x6x3		.052	6.196	17	.002	0	y	5	24.789	90.97	7.565	4.754	1	H1-1b
796	M853	LL3x3x6x3		.052	5.944	13	.002	0	y	3	24.789	90.97	7.565	4.754	1	H1-1b
797	M854	LL3x3x6x3		.052	6.196	14	.002	12.14	y	9	24.789	90.97	7.565	4.754	1	H1-1b
798	M859	LL3x3x6x3		.052	5.944	12	.002	12.14	y	25	24.789	90.97	7.565	4.754	1	H1-1b

Company : GPD Group
Designer : awestrum
Job Number : 2012856.72

Aug 13, 2012
6:53 PM
Checked By:

TAG0053 CHESHIRE

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

Member														
		Shape	Code Check		Loc[ft]	LC	Shear Ch...	Loc[ft]	Dir	LC	Pnc/om [k]	Pnt/om [k]	Mnyy/om [k-...Mnzz/om [k-...Cb	Eqn
799	M860	LL3x3x6x3	.052		6.196	12	.002	0	Y	5	24.789	90.97	7.565	1 H1-1b
800	M865	LL3x3x6x3	.052		5.944	18	.002	0	Y	7	24.789	90.97	7.565	1 H1-1b
801	M866	LL3x3x6x3	.052		6.196	11	.002	0	Y	3	24.789	90.97	7.565	1 H1-1b
802	M871	LL3x3x6x3	.052		5.944	16	.002	0	Y	8	24.789	90.97	7.565	1 H1-1b
803	M872	LL3x3x6x3	.052		6.196	16	.002	0	Y	2	24.789	90.97	7.565	1 H1-1b
804	M829	LL3x3x6x3	.052		5.944	13	.002	0	Y	2	24.789	90.97	7.565	1 H1-1b
805	M830	LL3x3x6x3	.052		6.196	14	.002	12.14	Y	4	24.789	90.97	7.565	1 H1-1b
806	M835	LL3x3x6x3	.052		5.944	11	.002	12.14	Y	8	24.789	90.97	7.565	1 H1-1b
807	M836	LL3x3x6x3	.052		6.196	13	.002	12.14	Y	7	24.789	90.97	7.565	1 H1-1b
808	M841	LL3x3x6x3	.052		5.944	18	.002	12.14	Y	2	24.789	90.97	7.565	1 H1-1b
809	M842	LL3x3x6x3	.052		6.196	11	.002	12.14	Y	8	24.789	90.97	7.565	1 H1-1b
810	M847	LL3x3x6x3	.052		5.944	16	.002	0	Y	4	24.789	90.97	7.565	1 H1-1b
811	M848	LL3x3x6x3	.052		6.196	16	.002	12.14	Y	22	24.789	90.97	7.565	1 H1-1b
812	M805	LL3x3x6x3	.052		5.944	12	.002	12.14	Y	6	24.789	90.97	7.565	1 H1-1b
813	M806	LL3x3x6x3	.052		6.196	16	.002	0	Y	4	24.789	90.97	7.565	1 H1-1b
814	M811	LL3x3x6x3	.052		5.944	18	.002	12.14	Y	5	24.789	90.97	7.565	1 H1-1b
815	M812	LL3x3x6x3	.052		6.196	14	.002	0	Y	14	24.789	90.97	7.565	1 H1-1b
816	M817	LL3x3x6x3	.052		5.944	17	.002	12.14	Y	7	24.789	90.97	7.565	1 H1-1b
817	M818	LL3x3x6x3	.052		6.196	12	.002	12.14	Y	3	24.789	90.97	7.565	1 H1-1b
818	M823	LL3x3x6x3	.054		5.944	15	.002	12.14	Y	9	24.789	90.97	7.565	1 H1-1b
819	M824	LL3x3x6x3	.054		6.196	17	.002	0	Y	5	24.789	90.97	7.565	1 H1-1b
820	M781	LL3x3x6x3	.068		5.944	12	.003	12.14	Y	18	24.789	90.97	7.565	1 H1-1b
821	M782	LL3x3x6x3	.068		6.196	15	.003	0	Y	11	24.789	90.97	7.565	1 H1-1b
822	M787	LL3x3x6x3	.050		5.944	18	.002	12.14	Y	4	24.789	90.97	7.565	1 H1-1b
823	M788	LL3x3x6x3	.050		6.196	14	.002	0	Y	2	24.789	90.97	7.565	1 H1-1b
824	M793	LL3x3x6x3	.050		5.944	17	.002	12.14	Y	6	24.789	90.97	7.565	1 H1-1b
825	M794	LL3x3x6x3	.050		6.196	12	.002	12.14	Y	4	24.789	90.97	7.565	1 H1-1b
826	M799	LL3x3x6x3	.052		5.944	15	.002	12.14	Y	16	24.789	90.97	7.565	1 H1-1b
827	M800	LL3x3x6x3	.052		6.196	17	.002	0	Y	7	24.789	90.97	7.565	1 H1-1b
828	M757A	LL3x3x6x3	.080		7.537	12	.002	15.396	Y	15	15.413	90.97	7.565	1 H1-1b
829	M758A	LL3x3x6x3	.074		7.765	12	.002	15.213	Y	18	15.785	90.97	7.565	1 H1-1b
830	M763A	LL3x3x6x3	.074		7.448	18	.002	0	Y	2	15.785	90.97	7.565	1 H1-1b
831	M764A	LL3x3x6x3	.080		7.858	18	.002	0	Y	13	15.413	90.97	7.565	1 H1-1b
832	M769A	LL3x3x6x3	.078		7.537	16	.002	0	Y	7	15.413	90.97	7.565	1 H1-1b
833	M770A	LL3x3x6x3	.073		7.765	16	.002	0	Y	11	15.785	90.97	7.565	1 H1-1b
834	M775A	LL3x3x6x3	.074		7.448	14	.002	15.213	Y	6	15.785	90.97	7.565	1 H1-1b
835	M776A	LL3x3x6x3	.080		7.858	14	.002	15.396	Y	3	15.413	90.97	7.565	1 H1-1b
836	M945	LL4x4x8x3	.018		3.948	9	.002	7.896	Y	7	117.031	161.461	17.217	1 H1-1b
837	M951	LL4x4x8x3	.018		3.948	7	.002	7.896	Y	5	117.031	161.461	17.217	1 H1-1b
838	M957	LL4x4x8x3	.018		3.948	5	.002	7.896	Y	3	117.031	161.461	17.217	1 H1-1b
839	M963	LL4x4x8x3	.018		3.948	3	.002	7.896	Y	9	117.031	161.461	17.217	1 H1-1b

Company : GPD Group
Designer : awestrum
Job Number : 2012856.72

Aug 13, 2012
6:53 PM
Checked By:

TAG0053 CHESHIRE

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

Member	Shape	Code Check	Locfll	LC	Shear Ch...	Locfll	Dir	LC	Pnc/om [k]	Pnt/om [k]	Mnvy/om [k-...Mnzz/om [k-...Cb	Egn
840	M921	LL4x4x8x3	.018	3.948	5	.002	7.896	y	7	117.031	161.461	17.217 11.212 1
841	M927	LL4x4x8x3	.018	3.948	3	.002	7.896	y	5	117.031	161.461	17.217 11.212 1
842	M933	LL4x4x8x3	.018	3.948	9	.002	7.896	y	3	117.031	161.461	17.217 11.212 1
843	M939	LL4x4x8x3	.018	3.948	7	.002	7.896	y	9	117.031	161.461	17.217 11.212 1
844	M897	LL4x4x8x3	.018	3.948	5	.002	7.896	y	7	117.031	161.461	17.217 11.212 1
845	M903	LL4x4x8x3	.018	3.948	3	.002	7.896	y	5	117.031	161.461	17.217 11.212 1
846	M909	LL4x4x8x3	.018	3.948	9	.002	7.896	y	3	117.031	161.461	17.217 11.212 1
847	M915	LL4x4x8x3	.018	3.948	7	.002	7.896	y	9	117.031	161.461	17.217 11.212 1
848	M873	LL4x4x8x3	.018	3.948	5	.002	7.896	y	7	117.031	161.461	17.217 11.212 1
849	M879	LL4x4x8x3	.018	3.948	3	.002	7.896	y	5	117.031	161.461	17.217 11.212 1
850	M885	LL4x4x8x3	.018	3.948	9	.002	7.896	y	3	117.031	161.461	17.217 11.212 1
851	M891	LL4x4x8x3	.018	3.948	7	.002	7.896	y	9	117.031	161.461	17.217 11.212 1
852	M849	LL4x4x8x3	.018	3.948	5	.002	7.896	y	7	117.031	161.461	17.217 11.212 1
853	M855	LL4x4x8x3	.018	3.948	3	.002	7.896	y	5	117.031	161.461	17.217 11.212 1
854	M861	LL4x4x8x3	.018	3.948	9	.002	7.896	y	3	117.031	161.461	17.217 11.212 1
855	M867	LL4x4x8x3	.018	3.948	7	.002	7.896	y	9	117.031	161.461	17.217 11.212 1
856	M825	LL4x4x8x3	.018	3.948	5	.002	7.896	y	7	117.031	161.461	17.217 11.212 1
857	M831	LL4x4x8x3	.018	3.948	3	.002	7.896	y	5	117.031	161.461	17.217 11.212 1
858	M837	LL4x4x8x3	.018	3.948	9	.002	7.896	y	3	117.031	161.461	17.217 11.212 1
859	M843	LL4x4x8x3	.018	3.948	7	.002	7.896	y	9	117.031	161.461	17.217 11.212 1
860	M801	LL4x4x8x3	.018	3.948	5	.002	7.896	y	7	117.031	161.461	17.217 11.212 1
861	M807	LL4x4x8x3	.018	3.948	3	.002	7.896	y	5	117.031	161.461	17.217 11.212 1
862	M813	LL4x4x8x3	.018	3.948	9	.002	7.896	y	3	117.031	161.461	17.217 11.212 1
863	M819	LL4x4x8x3	.018	3.948	7	.002	7.896	y	9	117.031	161.461	17.217 11.212 1
864	M777A	LL4x4x8x3	.018	3.948	5	.002	7.896	y	7	117.031	161.461	17.217 11.212 1
865	M783	LL4x4x8x3	.018	3.948	3	.002	7.896	y	5	117.031	161.461	17.217 11.212 1
866	M789	LL4x4x8x3	.018	3.948	9	.002	7.896	y	3	117.031	161.461	17.217 11.212 1
867	M795	LL4x4x8x3	.018	3.948	7	.002	7.896	y	9	117.031	161.461	17.217 11.212 1
868	M753A	LL4x4x8x3	.018	3.948	5	.002	7.896	y	7	117.029	161.461	17.217 11.212 1
869	M759A	LL4x4x8x3	.018	3.948	3	.002	7.896	y	5	117.029	161.461	17.217 11.212 1
870	M765A	LL4x4x8x3	.018	3.948	9	.002	7.896	y	3	117.029	161.461	17.217 11.212 1
871	M771A	LL4x4x8x3	.018	3.948	7	.002	7.896	y	9	117.029	161.461	17.217 11.212 1
872	M946	LL3x3x3x3	.090	7.896	5	.002	0	z	5	26.13	46.994	3.69 1.56 1....
873	M952	LL3x3x3x3	.090	7.896	3	.002	0	z	3	26.13	46.994	3.69 1.56 1....
874	M958	LL3x3x3x3	.090	7.896	9	.002	7.896	z	9	26.13	46.994	3.69 1.56 1....
875	M964	LL3x3x3x3	.090	7.896	7	.002	0	z	7	26.13	46.994	3.69 1.56 1....
876	M922	LL3x3x3x3	.095	7.896	5	.002	0	z	5	26.13	46.994	3.69 1.56 1....
877	M928	LL3x3x3x3	.095	7.896	3	.002	7.896	z	3	26.13	46.994	3.69 1.56 1....
878	M934	LL3x3x3x3	.095	7.896	9	.002	7.896	z	9	26.13	46.994	3.69 1.56 1....
879	M940	LL3x3x3x3	.095	7.896	7	.002	7.896	z	7	26.13	46.994	3.69 1.56 1....
880	M898	LL3x3x3x3	.096	7.896	5	.002	7.896	z	5	26.13	46.994	3.69 1.56 1....

Company : GPD Group
Designer : awestrum
Job Number : 2012856.72

Aug 13, 2012
6:53 PM
Checked By:

TAG0053 CHESHIRE

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

Member		Shape	Code Check		Loc[ft]	LC	Shear Ch...	Loc[ft]	Dir	LC	Pnc/om [k]	Pnt/om [k]	Mny/om [k-...	Mnzz/om [k-...	Cb	Eqn
881	M904	LL3x3x3x3		.096	7.896	3	.002	0	z	3	26.13	46.994	3.69	1.56	1....	H1-1b
882	M910	LL3x3x3x3		.096	7.896	9	.002	0	z	9	26.13	46.994	3.69	1.56	1....	H1-1b
883	M916	LL3x3x3x3		.096	7.896	7	.002	0	z	7	26.13	46.994	3.69	1.56	1....	H1-1b
884	M874	LL3x3x3x3		.102	7.896	5	.002	7.896	y	5	26.13	46.994	3.69	1.56	1....	H1-1b
885	M880	LL3x3x3x3		.102	7.896	3	.002	7.896	y	3	26.13	46.994	3.69	1.56	1....	H1-1b
886	M886	LL3x3x3x3		.102	7.896	9	.002	7.896	y	9	26.13	46.994	3.69	1.56	1....	H1-1b
887	M892	LL3x3x3x3		.102	7.896	7	.002	7.896	y	7	26.13	46.994	3.69	1.56	1....	H1-1b
888	M850	LL3x3x3x3		.107	7.896	5	.002	7.896	y	5	26.13	46.994	3.69	1.56	1....	H1-1b
889	M856	LL3x3x3x3		.107	7.896	3	.002	7.896	y	3	26.13	46.994	3.69	1.56	1....	H1-1b
890	M862	LL3x3x3x3		.107	7.896	9	.002	7.896	y	9	26.13	46.994	3.69	1.56	1....	H1-1b
891	M868	LL3x3x3x3		.107	7.896	7	.002	7.896	y	7	26.13	46.994	3.69	1.56	1....	H1-1b
892	M826	LL3x3x3x3		.113	7.896	5	.002	7.896	y	5	26.13	46.994	3.69	1.56	1....	H1-1b
893	M832	LL3x3x3x3		.112	7.896	3	.002	7.896	y	3	26.13	46.994	3.69	1.56	1....	H1-1b
894	M838	LL3x3x3x3		.113	7.896	9	.002	7.896	y	9	26.13	46.994	3.69	1.56	1....	H1-1b
895	M844	LL3x3x3x3		.113	7.896	7	.002	7.896	y	7	26.13	46.994	3.69	1.56	1....	H1-1b
896	M802	LL3x3x3x3		.108	7.896	5	.002	7.896	y	5	26.13	46.994	3.69	1.56	1....	H1-1b
897	M808	LL3x3x3x3		.107	7.896	3	.002	7.896	y	3	26.13	46.994	3.69	1.56	1....	H1-1b
898	M814	LL3x3x3x3		.108	7.896	9	.002	7.896	y	9	26.13	46.994	3.69	1.56	1....	H1-1b
899	M820	LL3x3x3x3		.108	7.896	7	.002	7.896	y	7	26.13	46.994	3.69	1.56	1....	H1-1b
900	M778	LL3x3x3x3		.143	7.896	14	.004	0	z	14	26.13	46.994	3.69	1.56	1....	H1-1b
901	M784	LL3x3x3x3		.110	7.896	3	.002	7.896	y	3	26.13	46.994	3.69	1.56	1....	H1-1b
902	M790	LL3x3x3x3		.110	7.896	9	.002	7.896	y	9	26.13	46.994	3.69	1.56	1....	H1-1b
903	M796	LL3x3x3x3		.111	7.896	7	.002	7.896	y	7	26.13	46.994	3.69	1.56	1....	H1-1b
904	M754A	LL3x3x3x3		.126	7.896	3	.003	7.896	y	3	26.13	46.994	3.69	1.56	1....	H1-1b
905	M760A	LL3x3x3x3		.126	7.896	9	.003	7.896	y	9	26.13	46.994	3.69	1.56	1....	H1-1b
906	M766A	LL3x3x3x3		.126	7.896	7	.003	7.896	y	7	26.13	46.994	3.69	1.56	1....	H1-1b
907	M772A	LL3x3x3x3		.126	7.896	5	.003	7.896	y	5	26.13	46.994	3.69	1.56	1....	H1-1b
908	M737A	L2.5X2.5X3		.695	1.396	3	.001	0	y	9	16.161	19.401	.58	1.266	1	H2-1
909	M738A	L2.5X2.5X3		.526	1.396	4	.001	2.792	y	5	16.161	19.401	.58	1.266	1	H2-1
910	M741A	L2.5X2.5X3		.526	1.396	9	.001	0	y	7	16.161	19.401	.58	1.266	1	H2-1
911	M742A	L2.5X2.5X3		.664	1.396	9	.001	2.792	y	4	16.161	19.401	.58	1.266	1	H2-1
912	M745A	L2.5X2.5X3		.639	1.396	7	.001	0	y	4	16.161	19.401	.58	1.266	1	H2-1
913	M746A	L2.5X2.5X3		.565	1.396	8	.001	2.792	y	9	16.161	19.401	.58	1.266	1	H2-1
914	M749A	L2.5X2.5X3		.573	1.396	4	.001	0	y	3	16.161	19.401	.58	1.266	1	H2-1
915	M750A	L2.5X2.5X3		.677	1.396	5	.001	2.792	y	7	16.161	19.401	.58	1.266	1	H2-1
916	M53	2L2 1/2x2 1/2x3/16x3/8		.068	4.188	13	.004	8.375	y	10	16.978	38.802	2.672	1.737	1	H1-1b
917	M61	2L2 1/2x2 1/2x3/16x3/8		.068	4.188	17	.004	8.375	y	10	16.978	38.802	2.672	1.737	1	H1-1b
918	M69	2L2 1/2x2 1/2x3/16x3/8		.068	4.188	11	.004	8.375	y	10	16.978	38.802	2.672	1.737	1	H1-1b
919	M77	2L2 1/2x2 1/2x3/16x3/8		.068	4.188	15	.004	8.375	y	10	16.978	38.802	2.672	1.737	1	H1-1b
920	M85	2L2 1/2x2 1/2x3/16x3/8		.067	4.188	17	.004	8.375	y	10	16.978	38.802	2.672	1.737	1	H1-1b
921	M93	2L2 1/2x2 1/2x3/16x3/8		.067	4.188	13	.004	8.375	y	10	16.978	38.802	2.672	1.737	1	H1-1b

Company : GPD Group
Designer : awestrum
Job Number : 2012856.72

Aug 13, 2012
6:53 PM
Checked By:

TAG0053 CHESHIRE

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

Member	Shape	Code Check	Locftl	LC	Shear Ch...	Locftl	Dir	LC	Pnc/om [kl]	Pnt/om [kl]	Mnvy/om [k-...	Mnzz/om [k-...	Cb	Egn
922	M101	2L2 1/2x2 1/2x3/16x3/8	.067	4.188	15	.004	8.375	Y	10	16.978	38.802	2.672	1.737	1 H1-1b
923	M109	2L2 1/2x2 1/2x3/16x3/8	.067	4.188	11	.004	8.375	Y	10	16.978	38.802	2.672	1.737	1 H1-1b
924	M126	2L2 1/2x2 1/2x3/16x3/8	.065	4.188	13	.004	8.375	Y	10	16.978	38.802	2.672	1.737	1 H1-1b
925	M134	2L2 1/2x2 1/2x3/16x3/8	.065	4.188	17	.004	8.375	Y	10	16.978	38.802	2.672	1.737	1 H1-1b
926	M143	2L2 1/2x2 1/2x3/16x3/8	.065	4.188	12	.004	8.375	Y	10	16.978	38.802	2.672	1.737	1 H1-1b
927	M151	2L2 1/2x2 1/2x3/16x3/8	.065	4.188	15	.004	8.375	Y	10	16.978	38.802	2.672	1.737	1 H1-1b
928	M160	2L2 1/2x2 1/2x3/16x3/8	.064	4.188	18	.004	8.375	Y	10	16.978	38.802	2.672	1.737	1 H1-1b
929	M168	2L2 1/2x2 1/2x3/16x3/8	.064	4.188	14	.004	8.375	Y	10	16.978	38.802	2.672	1.737	1 H1-1b
930	M177	2L2 1/2x2 1/2x3/16x3/8	.064	4.188	14	.004	8.375	Y	10	16.978	38.802	2.672	1.737	1 H1-1b
931	M185	2L2 1/2x2 1/2x3/16x3/8	.064	4.188	18	.004	8.375	Y	10	16.978	38.802	2.672	1.737	1 H1-1b
932	M207	2L2 1/2x2 1/2x3/16x3/8	.064	4.188	12	.004	8.375	Y	10	16.978	38.802	2.672	1.737	1 H1-1b
933	M215	2L2 1/2x2 1/2x3/16x3/8	.064	4.188	17	.004	8.375	Y	10	16.978	38.802	2.672	1.737	1 H1-1b
934	M224	2L2 1/2x2 1/2x3/16x3/8	.064	4.188	11	.004	8.375	Y	10	16.978	38.802	2.672	1.737	1 H1-1b
935	M232	2L2 1/2x2 1/2x3/16x3/8	.065	4.188	15	.004	8.375	Y	10	16.978	38.802	2.672	1.737	1 H1-1b
936	M241	2L2 1/2x2 1/2x3/16x3/8	.063	4.188	17	.004	8.375	Y	10	16.978	38.802	2.672	1.737	1 H1-1b
937	M249	2L2 1/2x2 1/2x3/16x3/8	.064	4.188	14	.004	8.375	Y	10	16.978	38.802	2.672	1.737	1 H1-1b
938	M258	2L2 1/2x2 1/2x3/16x3/8	.064	4.188	14	.004	8.375	Y	10	16.978	38.802	2.672	1.737	1 H1-1b
939	M266	2L2 1/2x2 1/2x3/16x3/8	.063	4.188	11	.004	8.375	Y	10	16.978	38.802	2.672	1.737	1 H1-1b
940	M288	2L2 1/2x2 1/2x3/16x3/8	.063	4.188	14	.004	8.375	Y	10	17.25	38.802	2.672	1.737	1 H1-1b
941	M296	2L2 1/2x2 1/2x3/16x3/8	.063	4.188	18	.004	8.375	Y	10	17.25	38.802	2.672	1.737	1 H1-1b
942	M305	2L2 1/2x2 1/2x3/16x3/8	.063	4.188	18	.004	8.375	Y	10	17.25	38.802	2.672	1.737	1 H1-1b
943	M313	2L2 1/2x2 1/2x3/16x3/8	.063	4.188	14	.004	8.375	Y	10	17.25	38.802	2.672	1.737	1 H1-1b
944	M322	2L2 1/2x2 1/2x3/16x3/8	.063	4.188	17	.004	8.375	Y	10	17.25	38.802	2.672	1.737	1 H1-1b
945	M330	2L2 1/2x2 1/2x3/16x3/8	.063	4.188	12	.004	8.375	Y	10	17.25	38.802	2.672	1.737	1 H1-1b
946	M339	2L2 1/2x2 1/2x3/16x3/8	.063	4.188	16	.004	8.375	Y	10	17.25	38.802	2.672	1.737	1 H1-1b
947	M347	2L2 1/2x2 1/2x3/16x3/8	.063	4.188	11	.004	8.375	Y	10	17.25	38.802	2.672	1.737	1 H1-1b
948	M369	2L2 1/2x2 1/2x3/16x3/8	.065	4.188	16	.004	8.375	Y	10	17.25	38.802	2.672	1.737	1 H1-1b
949	M377	2L2 1/2x2 1/2x3/16x3/8	.065	4.188	14	.004	8.375	Y	10	17.25	38.802	2.672	1.737	1 H1-1b
950	M386	2L2 1/2x2 1/2x3/16x3/8	.065	4.188	14	.004	8.375	Y	10	17.25	38.802	2.672	1.737	1 H1-1b
951	M394	2L2 1/2x2 1/2x3/16x3/8	.065	4.188	12	.004	8.375	Y	10	17.25	38.802	2.672	1.737	1 H1-1b
952	M403	2L2 1/2x2 1/2x3/16x3/8	.065	4.188	12	.004	8.375	Y	10	17.25	38.802	2.672	1.737	1 H1-1b
953	M411	2L2 1/2x2 1/2x3/16x3/8	.065	4.188	18	.004	8.375	Y	10	17.25	38.802	2.672	1.737	1 H1-1b
954	M420	2L2 1/2x2 1/2x3/16x3/8	.064	4.188	18	.004	8.375	Y	10	17.25	38.802	2.672	1.737	1 H1-1b
955	M428	2L2 1/2x2 1/2x3/16x3/8	.065	4.188	16	.004	8.375	Y	10	17.25	38.802	2.672	1.737	1 H1-1b
956	M450	2L2 1/2x2 1/2x3/16x3/8	.068	4.188	15	.004	8.375	Y	10	17.524	38.802	2.672	1.737	1 H1-1b
957	M458	2L2 1/2x2 1/2x3/16x3/8	.069	4.188	15	.004	8.375	Y	10	17.524	38.802	2.672	1.737	1 H1-1b
958	M467	2L2 1/2x2 1/2x3/16x3/8	.069	4.188	13	.004	8.375	Y	10	17.524	38.802	2.672	1.737	1 H1-1b
959	M475	2L2 1/2x2 1/2x3/16x3/8	.068	4.188	13	.004	8.375	Y	10	17.524	38.802	2.672	1.737	1 H1-1b
960	M484	2L2 1/2x2 1/2x3/16x3/8	.068	4.188	11	.004	8.375	Y	10	17.524	38.802	2.672	1.737	1 H1-1b
961	M492	2L2 1/2x2 1/2x3/16x3/8	.068	4.188	11	.004	8.375	Y	10	17.524	38.802	2.672	1.737	1 H1-1b
962	M501	2L2 1/2x2 1/2x3/16x3/8	.067	4.188	17	.004	8.375	Y	10	17.524	38.802	2.672	1.737	1 H1-1b

Company : GPD Group
Designer : awestrum
Job Number : 2012856.72

Aug 13, 2012
6:53 PM
Checked By:

TAG0053 CHESHIRE

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

Member	Shape	Code Check	Loc[ft]	LC	Shear Ch...	Loc[ft]	Dir	LC	Pnc/om [k]	Pnt/om [k]	Mny/om [k-...]	Mnzz/om [k-...]	Cb	Eqn
963	M509	2L2 1/2x2 1/2x3/16x3/8	.068	4.188	17 .004	8.375	Y	10	17.524	38.802	2.672	1.737	1	H1-1b
964	M531	2L2 1/2x2 1/2x3/16x3/8	.072	4.188	16 .004	8.375	Y	10	17.524	38.802	2.672	1.737	1	H1-1b
965	M539	2L2 1/2x2 1/2x3/16x3/8	.072	4.188	14 .004	8.375	Y	10	17.524	38.802	2.672	1.737	1	H1-1b
966	M548	2L2 1/2x2 1/2x3/16x3/8	.072	4.188	14 .004	8.375	Y	10	17.524	38.802	2.672	1.737	1	H1-1b
967	M556	2L2 1/2x2 1/2x3/16x3/8	.071	4.188	12 .004	8.375	Y	10	17.524	38.802	2.672	1.737	1	H1-1b
968	M565	2L2 1/2x2 1/2x3/16x3/8	.071	4.188	12 .004	8.375	Y	10	17.524	38.802	2.672	1.737	1	H1-1b
969	M573	2L2 1/2x2 1/2x3/16x3/8	.070	4.188	18 .004	8.375	Y	10	17.524	38.802	2.672	1.737	1	H1-1b
970	M582	2L2 1/2x2 1/2x3/16x3/8	.070	4.188	18 .004	8.375	Y	10	17.524	38.802	2.672	1.737	1	H1-1b
971	M590	2L2 1/2x2 1/2x3/16x3/8	.071	4.188	16 .004	8.375	Y	10	17.524	38.802	2.672	1.737	1	H1-1b
972	M612	2L2 1/2x2 1/2x3/16x3/8	.072	4.188	15 .004	8.375	Y	10	17.558	38.802	2.672	1.737	1	H1-1b
973	M620	2L2 1/2x2 1/2x3/16x3/8	.073	4.188	15 .004	8.375	Y	10	17.558	38.802	2.672	1.737	1	H1-1b
974	M629	2L2 1/2x2 1/2x3/16x3/8	.070	4.188	14 .004	8.375	Y	10	17.558	38.802	2.672	1.737	1	H1-1b
975	M637	2L2 1/2x2 1/2x3/16x3/8	.069	4.188	12 .004	8.375	Y	10	17.558	38.802	2.672	1.737	1	H1-1b
976	M646	2L2 1/2x2 1/2x3/16x3/8	.071	4.188	11 .004	8.375	Y	10	17.558	38.802	2.672	1.737	1	H1-1b
977	M654	2L2 1/2x2 1/2x3/16x3/8	.070	4.188	11 .004	8.375	Y	10	17.558	38.802	2.672	1.737	1	H1-1b
978	M663	2L2 1/2x2 1/2x3/16x3/8	.069	4.188	18 .004	8.375	Y	10	17.558	38.802	2.672	1.737	1	H1-1b
979	M671	2L2 1/2x2 1/2x3/16x3/8	.069	4.188	16 .004	8.375	Y	10	17.558	38.802	2.672	1.737	1	H1-1b
980	M693	2L2 1/2x2 1/2x3/16x3/8	.090	4.188	3 .004	8.375	Y	10	17.851	38.802	2.672	1.737	1	H1-1b
981	M703	2L2 1/2x2 1/2x3/16x3/8	.092	4.188	9 .004	8.375	Y	10	17.851	38.802	2.672	1.737	1	H1-1b
982	M714	2L2 1/2x2 1/2x3/16x3/8	.083	4.188	14 .004	0	Y	10	17.851	38.802	2.672	1.737	1	H1-1b
983	M724	2L2 1/2x2 1/2x3/16x3/8	.081	4.188	12 .004	0	Y	14	17.851	38.802	2.672	1.737	1	H1-1b
984	M735	2L2 1/2x2 1/2x3/16x3/8	.096	4.188	7 .004	8.375	Y	10	17.851	38.802	2.672	1.737	1	H1-1b
985	M745	2L2 1/2x2 1/2x3/16x3/8	.095	4.188	5 .004	8.375	Y	10	17.851	38.802	2.672	1.737	1	H1-1b
986	M756	2L2 1/2x2 1/2x3/16x3/8	.080	4.188	18 .004	0	Y	10	17.851	38.802	2.672	1.737	1	H1-1b
987	M766	2L2 1/2x2 1/2x3/16x3/8	.082	4.188	16 .004	0	Y	11	17.851	38.802	2.672	1.737	1	H1-1b
988	M55	2L2 1/2x2 1/2x3/16x3/8	.149	6.281	17 .006	0	Y	10	7.52	38.802	2.672	1.737	1	H1-1b
989	M63	2L2 1/2x2 1/2x3/16x3/8	.149	6.281	13 .006	0	Y	10	7.52	38.802	2.672	1.737	1	H1-1b
990	M71	2L2 1/2x2 1/2x3/16x3/8	.149	6.281	15 .006	0	Y	10	7.52	38.802	2.672	1.737	1	H1-1b
991	M79	2L2 1/2x2 1/2x3/16x3/8	.149	6.281	12 .006	0	Y	10	7.52	38.802	2.672	1.737	1	H1-1b
992	M87	2L2 1/2x2 1/2x3/16x3/8	.148	6.281	13 .006	0	Y	10	7.52	38.802	2.672	1.737	1	H1-1b
993	M95	2L2 1/2x2 1/2x3/16x3/8	.148	6.281	17 .006	0	Y	10	7.52	38.802	2.672	1.737	1	H1-1b
994	M103	2L2 1/2x2 1/2x3/16x3/8	.148	6.281	18 .006	0	Y	10	7.52	38.802	2.672	1.737	1	H1-1b
995	M111	2L2 1/2x2 1/2x3/16x3/8	.148	6.281	15 .006	0	Y	10	7.52	38.802	2.672	1.737	1	H1-1b
996	M128	2L2 1/2x2 1/2x3/16x3/8	.144	6.281	17 .006	0	Y	10	7.52	38.802	2.672	1.737	1	H1-1b
997	M136	2L2 1/2x2 1/2x3/16x3/8	.144	6.281	13 .006	0	Y	10	7.52	38.802	2.672	1.737	1	H1-1b
998	M145	2L2 1/2x2 1/2x3/16x3/8	.144	6.281	15 .006	0	Y	10	7.52	38.802	2.672	1.737	1	H1-1b
999	M153	2L2 1/2x2 1/2x3/16x3/8	.144	6.281	11 .006	0	Y	10	7.52	38.802	2.672	1.737	1	H1-1b
1000	M162	2L2 1/2x2 1/2x3/16x3/8	.143	6.281	13 .006	0	Y	10	7.52	38.802	2.672	1.737	1	H1-1b
1001	M170	2L2 1/2x2 1/2x3/16x3/8	.143	6.281	17 .006	0	Y	10	7.52	38.802	2.672	1.737	1	H1-1b
1002	M179	2L2 1/2x2 1/2x3/16x3/8	.143	6.281	11 .006	0	Y	10	7.52	38.802	2.672	1.737	1	H1-1b
1003	M187	2L2 1/2x2 1/2x3/16x3/8	.144	6.281	15 .006	0	Y	10	7.52	38.802	2.672	1.737	1	H1-1b

Company : GPD Group
Designer : awestrump
Job Number : 2012856.72

Aug 13, 2012
6:53 PM
Checked By:

TAG0053 CHESHIRE

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

Member		Shape			Code Check		Locftl	LC	Shear Ch...	Dir	LC	Pnc/om [k]	Pnt/om [k]	Mnyv/om [k-...	Mnzz/om [k-...	Cb	Eqn
1004	M209	2L2 1/2x2 1/2x3/16x3/8	.144	6.281	16	.006	0	Y	10	7.52	38.802	1.737	1	H1-1b			
1005	M217	2L2 1/2x2 1/2x3/16x3/8	.144	6.281	13	.006	0	Y	10	7.52	38.802	1.737	1	H1-1b			
1006	M226	2L2 1/2x2 1/2x3/16x3/8	.144	6.281	15	.006	0	Y	10	7.52	38.802	1.737	1	H1-1b			
1007	M234	2L2 1/2x2 1/2x3/16x3/8	.144	6.281	12	.006	0	Y	10	7.52	38.802	1.737	1	H1-1b			
1008	M243	2L2 1/2x2 1/2x3/16x3/8	.143	6.281	13	.006	0	Y	10	7.52	38.802	1.737	1	H1-1b			
1009	M251	2L2 1/2x2 1/2x3/16x3/8	.143	6.281	18	.006	0	Y	10	7.52	38.802	1.737	1	H1-1b			
1010	M260	2L2 1/2x2 1/2x3/16x3/8	.143	6.281	18	.006	0	Y	10	7.52	38.802	1.737	1	H1-1b			
1011	M268	2L2 1/2x2 1/2x3/16x3/8	.144	6.281	15	.006	0	Y	10	7.52	38.802	1.737	1	H1-1b			
1012	M290	2L2 1/2x2 1/2x3/16x3/8	.146	6.281	16	.006	0	Y	10	7.619	38.802	1.737	1	H1-1b			
1013	M298	2L2 1/2x2 1/2x3/16x3/8	.146	6.281	14	.006	0	Y	10	7.619	38.802	1.737	1	H1-1b			
1014	M307	2L2 1/2x2 1/2x3/16x3/8	.146	6.281	14	.006	0	Y	10	7.619	38.802	1.737	1	H1-1b			
1015	M315	2L2 1/2x2 1/2x3/16x3/8	.146	6.281	12	.006	0	Y	10	7.619	38.802	1.737	1	H1-1b			
1016	M324	2L2 1/2x2 1/2x3/16x3/8	.145	6.281	12	.006	0	Y	10	7.619	38.802	1.737	1	H1-1b			
1017	M332	2L2 1/2x2 1/2x3/16x3/8	.145	6.281	18	.006	0	Y	10	7.619	38.802	1.737	1	H1-1b			
1018	M341	2L2 1/2x2 1/2x3/16x3/8	.145	6.281	18	.006	0	Y	10	7.619	38.802	1.737	1	H1-1b			
1019	M349	2L2 1/2x2 1/2x3/16x3/8	.145	6.281	16	.006	0	Y	10	7.619	38.802	1.737	1	H1-1b			
1020	M371	2L2 1/2x2 1/2x3/16x3/8	.147	6.281	16	.006	0	Y	10	7.619	38.802	1.737	1	H1-1b			
1021	M379	2L2 1/2x2 1/2x3/16x3/8	.147	6.281	14	.006	0	Y	10	7.619	38.802	1.737	1	H1-1b			
1022	M388	2L2 1/2x2 1/2x3/16x3/8	.147	6.281	14	.006	0	Y	10	7.619	38.802	1.737	1	H1-1b			
1023	M396	2L2 1/2x2 1/2x3/16x3/8	.147	6.281	12	.006	0	Y	10	7.619	38.802	1.737	1	H1-1b			
1024	M405	2L2 1/2x2 1/2x3/16x3/8	.146	6.281	12	.006	0	Y	10	7.619	38.802	1.737	1	H1-1b			
1025	M413	2L2 1/2x2 1/2x3/16x3/8	.146	6.281	18	.006	0	Y	10	7.619	38.802	1.737	1	H1-1b			
1026	M422	2L2 1/2x2 1/2x3/16x3/8	.146	6.281	18	.006	0	Y	10	7.619	38.802	1.737	1	H1-1b			
1027	M430	2L2 1/2x2 1/2x3/16x3/8	.147	6.281	16	.006	0	Y	10	7.619	38.802	1.737	1	H1-1b			
1028	M452	2L2 1/2x2 1/2x3/16x3/8	.149	6.281	16	.006	0	Y	10	7.72	38.802	1.737	1	H1-1b			
1029	M460	2L2 1/2x2 1/2x3/16x3/8	.149	6.281	14	.006	0	Y	10	7.72	38.802	1.737	1	H1-1b			
1030	M469	2L2 1/2x2 1/2x3/16x3/8	.149	6.281	14	.006	0	Y	10	7.72	38.802	1.737	1	H1-1b			
1031	M477	2L2 1/2x2 1/2x3/16x3/8	.149	6.281	12	.006	0	Y	10	7.72	38.802	1.737	1	H1-1b			
1032	M486	2L2 1/2x2 1/2x3/16x3/8	.148	6.281	12	.006	0	Y	10	7.72	38.802	1.737	1	H1-1b			
1033	M494	2L2 1/2x2 1/2x3/16x3/8	.148	6.281	18	.006	0	Y	10	7.72	38.802	1.737	1	H1-1b			
1034	M503	2L2 1/2x2 1/2x3/16x3/8	.148	6.281	18	.006	0	Y	10	7.72	38.802	1.737	1	H1-1b			
1035	M511	2L2 1/2x2 1/2x3/16x3/8	.149	6.281	16	.006	0	Y	10	7.72	38.802	1.737	1	H1-1b			
1036	M533	2L2 1/2x2 1/2x3/16x3/8	.152	6.281	16	.006	0	Y	10	7.72	38.802	1.737	1	H1-1b			
1037	M541	2L2 1/2x2 1/2x3/16x3/8	.152	6.281	14	.006	0	Y	10	7.72	38.802	1.737	1	H1-1b			
1038	M550	2L2 1/2x2 1/2x3/16x3/8	.152	6.281	14	.006	0	Y	10	7.72	38.802	1.737	1	H1-1b			
1039	M558	2L2 1/2x2 1/2x3/16x3/8	.151	6.281	12	.006	0	Y	10	7.72	38.802	1.737	1	H1-1b			
1040	M567	2L2 1/2x2 1/2x3/16x3/8	.151	6.281	12	.006	0	Y	10	7.72	38.802	1.737	1	H1-1b			
1041	M575	2L2 1/2x2 1/2x3/16x3/8	.150	6.281	18	.006	0	Y	10	7.72	38.802	1.737	1	H1-1b			
1042	M584	2L2 1/2x2 1/2x3/16x3/8	.150	6.281	18	.006	0	Y	10	7.72	38.802	1.737	1	H1-1b			
1043	M592	2L2 1/2x2 1/2x3/16x3/8	.151	6.281	16	.006	0	Y	10	7.72	38.802	1.737	1	H1-1b			
1044	M614	2L2 1/2x2 1/2x3/16x3/8	.154	6.281	16	.006	0	Y	10	7.733	38.802	1.737	1	H1-1b			

Company : GPD Group
Designer : awestrum
Job Number : 2012856.72

Aug 13, 2012
6:53 PM
Checked By:

TAG0053 CHESHIRE

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

Member		Shape	Code Check		Loc[ft]	LC	Shear Ch...	Loc[ft]	Dir	LC	Pnc/om [k]	Pnt/om [k]	Mny/om [k-...Mnzz/om [k-...Cb	Egn	
1045	M622	2L2 1/2x2 1/2x3/16x3/8	.154	6.281	14	.006	0	Y	10	7.733	38.802	1	1.737	1	H1-1b
1046	M631	2L2 1/2x2 1/2x3/16x3/8	.153	6.281	14	.006	0	Y	10	7.733	38.802	1	1.737	1	H1-1b
1047	M639	2L2 1/2x2 1/2x3/16x3/8	.152	6.281	12	.006	0	Y	10	7.733	38.802	1	1.737	1	H1-1b
1048	M648	2L2 1/2x2 1/2x3/16x3/8	.152	6.281	12	.006	0	Y	10	7.733	38.802	1	1.737	1	H1-1b
1049	M656	2L2 1/2x2 1/2x3/16x3/8	.152	6.281	18	.006	0	Y	10	7.733	38.802	1	1.737	1	H1-1b
1050	M665	2L2 1/2x2 1/2x3/16x3/8	.151	6.281	18	.006	0	Y	10	7.733	38.802	1	1.737	1	H1-1b
1051	M673	2L2 1/2x2 1/2x3/16x3/8	.152	6.281	16	.006	0	Y	10	7.733	38.802	1	1.737	1	H1-1b
1052	M695	2L2 1/2x2 1/2x1/4x3/8	.125	5.583	3	.005	11.167	Y	10	12.983	51.305	1	1.737	1	H1-1b
1053	M705	2L2 1/2x2 1/2x1/4x3/8	.130	5.583	9	.005	11.167	Y	10	12.983	51.305	1	1.737	1	H1-1b
1054	M716	2L2 1/2x2 1/2x1/4x3/8	.110	5.583	14	.005	0	Y	10	12.983	51.305	1	1.737	1	H1-1b
1055	M726	2L2 1/2x2 1/2x1/4x3/8	.109	5.583	12	.005	0	Y	10	12.983	51.305	1	1.737	1	H1-1b
1056	M737	2L2 1/2x2 1/2x1/4x3/8	.133	5.583	7	.005	11.167	Y	10	12.983	51.305	1	1.737	1	H1-1b
1057	M747	2L2 1/2x2 1/2x1/4x3/8	.131	5.583	5	.005	11.167	Y	10	12.983	51.305	1	1.737	1	H1-1b
1058	M758	2L2 1/2x2 1/2x1/4x3/8	.112	5.583	16	.005	0	Y	10	12.983	51.305	1	1.737	1	H1-1b
1059	M768	2L2 1/2x2 1/2x1/4x3/8	.110	5.583	16	.005	0	Y	10	12.983	51.305	1	1.737	1	H1-1b
1060	M697	2L3x3x1/4x3/8 HRA	.137	6.979	16	.006	13.958	Y	10	14.393	62.084	1	1.737	1	H1-1b
1061	M707	2L3x3x1/4x3/8 HRA	.137	6.979	14	.006	13.958	Y	10	14.393	62.084	1	1.737	1	H1-1b
1062	M718	2L3x3x1/4x3/8 HRA	.135	6.979	14	.006	0	Y	10	14.393	62.084	1	1.737	1	H1-1b
1063	M728	2L3x3x1/4x3/8 HRA	.135	6.979	12	.006	0	Y	10	14.393	62.084	1	1.737	1	H1-1b
1064	M739	2L3x3x1/4x3/8 HRA	.136	6.979	12	.006	13.958	Y	10	14.393	62.084	1	1.737	1	H1-1b
1065	M749	2L3x3x1/4x3/8 HRA	.136	6.979	18	.006	13.958	Y	10	14.393	62.084	1	1.737	1	H1-1b
1066	M760	2L3x3x1/4x3/8 HRA	.134	6.979	18	.006	0	Y	10	14.393	62.084	1	1.737	1	H1-1b
1067	M770	2L3x3x1/4x3/8 HRA	.135	6.979	16	.006	0	Y	10	14.393	62.084	1	1.737	1	H1-1b
1068	M1192A	L2.5X2.5X3	.313	4.188	2	.002	0	Y	1	3.112	19.401	.58	.935	1....	H2-1
1069	M1193A	L2.5X2.5X3	.300	4.188	6	.002	8.375	Y	1	3.112	19.401	.58	.935	1....	H2-1
1070	M1197A	L2.5X2.5X3	.377	4.188	9	.002	0	Y	4	3.112	19.401	.58	.935	1....	H2-1
1071	M1198A	L2.5X2.5X3	.328	4.188	3	.002	8.375	Y	8	3.112	19.401	.58	.935	1....	H2-1
1072	M1202A	L2.5X2.5X3	.247	4.188	6	.002	0	Y	2	3.112	19.401	.58	.935	1....	H2-1
1073	M1203A	L2.5X2.5X3	.264	4.188	9	.002	8.375	Y	6	3.112	19.401	.58	.935	1....	H2-1
1074	M1207A	L2.5X2.5X3	.387	4.188	5	.002	0	Y	1	3.112	19.401	.58	.935	1....	H2-1
1075	M1208A	L2.5X2.5X3	.440	4.188	7	.002	8.375	Y	1	3.112	19.401	.58	.935	1....	H2-1
1076	M1236	L2.5X2.5X3	.013	2.094	6	.001	4.188	Y	4	10.867	19.401	.58	1.153	1....	H2-1
1077	M1237	L2.5X2.5X3	.096	5.167	6	.003	0	Y	1	2.044	19.401	.58	.853	1....	H2-1
1078	M1238	L2.5X2.5X3	.058	4.188	6	.002	0	Y	1	3.112	19.401	.58	.935	1....	H2-1
1079	M1239	L2.5X2.5X3	.096	5.167	6	.003	0	Y	8	2.044	19.401	.58	.853	1....	H2-1
1080	M1240	L2.5X2.5X3	.013	2.094	6	.001	0	Y	8	10.867	19.401	.58	1.153	1....	H2-1
1081	M1241	L2.5X2.5X3	.013	2.094	4	.001	4.188	Y	9	10.867	19.401	.58	1.153	1....	H2-1
1082	M1242	L2.5X2.5X3	.096	5.167	4	.003	0	Y	1	2.044	19.401	.58	.853	1....	H2-1
1083	M1243	L2.5X2.5X3	.058	4.188	4	.002	0	Y	1	3.112	19.401	.58	.935	1....	H2-1
1084	M1244	L2.5X2.5X3	.096	5.167	4	.003	0	Y	5	2.044	19.401	.58	.853	1....	H2-1
1085	M1245	L2.5X2.5X3	.013	2.094	4	.001	0	Y	6	10.867	19.401	.58	1.153	1....	H2-1

Company : GPD Group
Designer : awestrum
Job Number : 2012856.72

Aug 13, 2012
6:53 PM
Checked By:

TAG0053 CHESHIRE

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

Member		Shape	Code Check		Locfl	LC	Shear Ch...	Locfl	Dir	LC	Pnc/om [k]	Pnt/om [k]	Mnvy/om [k-...	Mnzz/om [k-...	Cb	Eqn
1086	M1246	L2.5X2.5X3	.013	2.094	2	.001	4.188	Y	8	10.867	19.401	.58	1.153	1....	H2-1	
1087	M1247	L2.5X2.5X3	.096	5.167	2	.003	0	Y	1	2.044	19.401	.58	.853	1....	H2-1	
1088	M1248	L2.5X2.5X3	.058	4.188	2	.002	0	Y	1	3.112	19.401	.58	.935	1....	H2-1	
1089	M1249	L2.5X2.5X3	.096	5.167	2	.003	0	Y	3	2.044	19.401	.58	.853	1....	H2-1	
1090	M1250	L2.5X2.5X3	.013	2.094	2	.001	0	Y	4	10.867	19.401	.58	1.153	1....	H2-1	
1091	M1251	L2.5X2.5X3	.013	2.094	8	.001	4.188	Y	6	10.867	19.401	.58	1.153	1....	H2-1	
1092	M1252	L2.5X2.5X3	.096	5.167	8	.003	0	Y	1	2.044	19.401	.58	.853	1....	H2-1	
1093	M1253	L2.5X2.5X3	.058	4.188	8	.002	0	Y	1	3.112	19.401	.58	.935	1....	H2-1	
1094	M1254	L2.5X2.5X3	.096	5.167	8	.003	0	Y	2	2.044	19.401	.58	.853	1....	H2-1	
1095	M1255	L2.5X2.5X3	.013	2.094	8	.001	0	Y	2	10.867	19.401	.58	1.153	1....	H2-1	
1096	M52	L3X3X3	.037	2.094	16	.003	0	Y	13	15.722	23.497	.878	1.665	1	H2-1	
1097	M60	L3X3X3	.038	2.094	14	.003	4.188	Y	17	15.722	23.497	.878	1.665	1	H2-1	
1098	M68	L3X3X3	.037	2.094	16	.003	0	Y	11	15.722	23.497	.878	1.665	1	H2-1	
1099	M76	L3X3X3	.036	2.094	12	.003	4.188	Y	15	15.722	23.497	.878	1.665	1	H2-1	
1100	M84	L3X3X3	.036	2.094	17	.003	4.188	Y	13	15.722	23.497	.878	1.665	1	H2-1	
1101	M92	L3X3X3	.035	2.094	12	.003	4.188	Y	13	15.722	23.497	.878	1.665	1	H2-1	
1102	M100	L3X3X3	.035	2.094	17	.003	0	Y	15	15.722	23.497	.878	1.665	1	H2-1	
1103	M108	L3X3X3	.036	2.094	14	.003	4.188	Y	11	15.722	23.497	.878	1.665	1	H2-1	
1104	M125	L3X3X3	.048	2.094	16	.003	0	Y	12	15.722	23.497	.878	1.665	1	H2-1	
1105	M133	L3X3X3	.049	2.094	14	.003	4.188	Y	17	15.722	23.497	.878	1.665	1	H2-1	
1106	M142	L3X3X3	.049	2.094	14	.003	0	Y	11	15.722	23.497	.878	1.665	1	H2-1	
1107	M150	L3X3X3	.047	2.094	12	.003	0	Y	12	15.722	23.497	.878	1.665	1	H2-1	
1108	M159	L3X3X3	.045	2.094	12	.003	0	Y	17	15.722	23.497	.878	1.665	1	H2-1	
1109	M167	L3X3X3	.044	2.094	18	.003	4.188	Y	12	15.722	23.497	.878	1.665	1	H2-1	
1110	M176	L3X3X3	.045	2.094	18	.003	0	Y	15	15.722	23.497	.878	1.665	1	H2-1	
1111	M184	L3X3X3	.046	2.094	15	.003	0	Y	15	15.722	23.497	.878	1.665	1	H2-1	
1112	M206	L3X3X3	.067	2.094	7	.003	0	Y	12	15.722	23.497	.878	1.665	1	H2-1	
1113	M214	L3X3X3	.065	2.094	14	.003	4.188	Y	17	15.722	23.497	.878	1.665	1	H2-1	
1114	M223	L3X3X3	.067	2.094	14	.003	0	Y	11	15.722	23.497	.878	1.665	1	H2-1	
1115	M231	L3X3X3	.068	2.094	3	.003	4.188	Y	16	15.722	23.497	.878	1.665	1	H2-1	
1116	M240	L3X3X3	.060	2.094	12	.003	0	Y	17	15.722	23.497	.878	1.665	1	H2-1	
1117	M248	L3X3X3	.062	2.094	9	.003	4.188	Y	14	15.722	23.497	.878	1.665	1	H2-1	
1118	M257	L3X3X3	.060	2.094	9	.003	0	Y	15	15.722	23.497	.878	1.665	1	H2-1	
1119	M265	L3X3X3	.063	2.094	16	.003	0	Y	16	15.722	23.497	.878	1.665	1	H2-1	
1120	M287	L3X3X3	.075	2.094	15	.003	0	Y	13	15.919	23.497	.878	1.673	1	H2-1	
1121	M295	L3X3X3	.078	2.094	15	.003	4.188	Y	18	15.919	23.497	.878	1.673	1	H2-1	
1122	M304	L3X3X3	.077	2.094	13	.003	0	Y	11	15.919	23.497	.878	1.673	1	H2-1	
1123	M312	L3X3X3	.072	2.094	13	.003	0	Y	12	15.919	23.497	.878	1.673	1	H2-1	
1124	M321	L3X3X3	.072	2.094	11	.003	0	Y	17	15.919	23.497	.878	1.673	1	H2-1	
1125	M329	L3X3X3	.071	2.094	2	.003	4.188	Y	14	15.919	23.497	.878	1.673	1	H2-1	
1126	M338	L3X3X3	.068	2.094	17	.003	0	Y	15	15.919	23.497	.878	1.673	1	H2-1	

Company : GPD Group
Designer : awestrum
Job Number : 2012856.72

Aug 13, 2012
6:53 PM
Checked By:

TAG0053 CHESHIRE

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

Member	Shape	Code Check	Loc[ft]	LC	Shear Ch...	Loc[ft]	Dir	LC	Pnc/om [k]	Pnt/om [k]	Mnyy/om [k-...Mnzz/om [k-...Cb	Eqn		
1127	M346	L3X3X3	.074	2.094	17	.003	0	Y	16	15.919	23.497	.878	1	H2-1
1128	M368	L3X3X3	.108	2.094	6	.003	0	Y	13	15.919	23.497	.878	1	H2-1
1129	M376	L3X3X3	.111	2.094	6	.003	4.188	Y	11	15.919	23.497	.878	1	H2-1
1130	M385	L3X3X3	.111	2.094	5	.003	0	Y	11	15.919	23.497	.878	1	H2-1
1131	M393	L3X3X3	.106	2.094	3	.003	0	Y	12	15.919	23.497	.878	1	H2-1
1132	M402	L3X3X3	.109	2.094	3	.003	0	Y	17	15.919	23.497	.878	1	H2-1
1133	M410	L3X3X3	.107	2.094	9	.003	4.188	Y	14	15.919	23.497	.878	1	H2-1
1134	M419	L3X3X3	.105	2.094	9	.003	0	Y	15	15.919	23.497	.878	1	H2-1
1135	M427	L3X3X3	.108	2.094	7	.003	0	Y	16	15.919	23.497	.878	1	H2-1
1136	M449	L3X3X3	.141	2.094	6	.003	0	Y	12	16.091	23.497	.878	1	H2-1
1137	M457	L3X3X3	.147	2.094	6	.003	4.188	Y	11	16.091	23.497	.878	1	H2-1
1138	M466	L3X3X3	.145	2.094	4	.003	0	Y	11	16.091	23.497	.878	1	H2-1
1139	M474	L3X3X3	.137	2.094	4	.003	0	Y	12	16.091	23.497	.878	1	H2-1
1140	M483	L3X3X3	.144	2.094	2	.003	0	Y	17	16.091	23.497	.878	1	H2-1
1141	M491	L3X3X3	.138	2.094	2	.003	4.188	Y	14	16.091	23.497	.878	1	H2-1
1142	M500	L3X3X3	.134	2.094	8	.003	0	Y	15	16.091	23.497	.878	1	H2-1
1143	M508	L3X3X3	.142	2.094	8	.003	0	Y	16	16.091	23.497	.878	1	H2-1
1144	M530	L3X3X3	.196	2.094	7	.003	0	Y	13	16.115	23.497	.878	1	H2-1
1145	M538	L3X3X3	.202	2.094	5	.003	4.188	Y	12	16.115	23.497	.878	1	H2-1
1146	M547	L3X3X3	.200	2.094	5	.003	0	Y	11	16.115	23.497	.878	1	H2-1
1147	M555	L3X3X3	.194	2.094	3	.003	0	Y	12	16.115	23.497	.878	1	H2-1
1148	M564	L3X3X3	.200	2.094	3	.003	0	Y	16	16.115	23.497	.878	1	H2-1
1149	M572	L3X3X3	.197	2.094	9	.003	4.188	Y	15	16.115	23.497	.878	1	H2-1
1150	M581	L3X3X3	.194	2.094	9	.003	0	Y	15	16.115	23.497	.878	1	H2-1
1151	M589	L3X3X3	.199	2.094	7	.003	0	Y	16	16.115	23.497	.878	1	H2-1
1152	M611	L3X3X3	.229	2.094	7	.003	0	Y	12	16.14	23.497	.878	1	H2-1
1153	M619	L3X3X3	.234	2.094	5	.003	4.188	Y	12	16.14	23.497	.878	1	H2-1
1154	M628	L3X3X3	.206	2.094	5	.003	0	Y	11	16.14	23.497	.878	1	H2-1
1155	M636	L3X3X3	.200	2.094	3	.003	0	Y	13	16.14	23.497	.878	1	H2-1
1156	M645	L3X3X3	.233	2.094	3	.003	0	Y	16	16.14	23.497	.878	1	H2-1
1157	M653	L3X3X3	.228	2.094	9	.003	4.188	Y	16	16.14	23.497	.878	1	H2-1
1158	M662	L3X3X3	.200	2.094	9	.003	0	Y	15	16.14	23.497	.878	1	H2-1
1159	M670	L3X3X3	.204	2.094	7	.003	0	Y	17	16.14	23.497	.878	1	H2-1
1160	M692	L3X3X3	.221	2.792	3	.004	0	Y	10	12.787	23.497	.878	1	H2-1
1161	M702	L3X3X3	.233	2.792	9	.004	0	Y	10	12.787	23.497	.878	1	H2-1
1162	M713	L3X3X3	.172	2.792	4	.004	0	Y	11	12.787	23.497	.878	1	H2-1
1163	M723	L3X3X3	.164	2.792	8	.004	0	Y	11	12.787	23.497	.878	1	H2-1
1164	M734	L3X3X3	.255	2.792	7	.004	0	Y	17	12.787	23.497	.878	1	H2-1
1165	M744	L3X3X3	.248	2.792	5	.004	0	Y	10	12.787	23.497	.878	1	H2-1
1166	M755	L3X3X3	.169	2.792	4	.004	0	Y	15	12.787	23.497	.878	1	H2-1
1167	M765	L3X3X3	.175	2.792	4	.004	0	Y	15	12.787	23.497	.878	1	H2-1

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

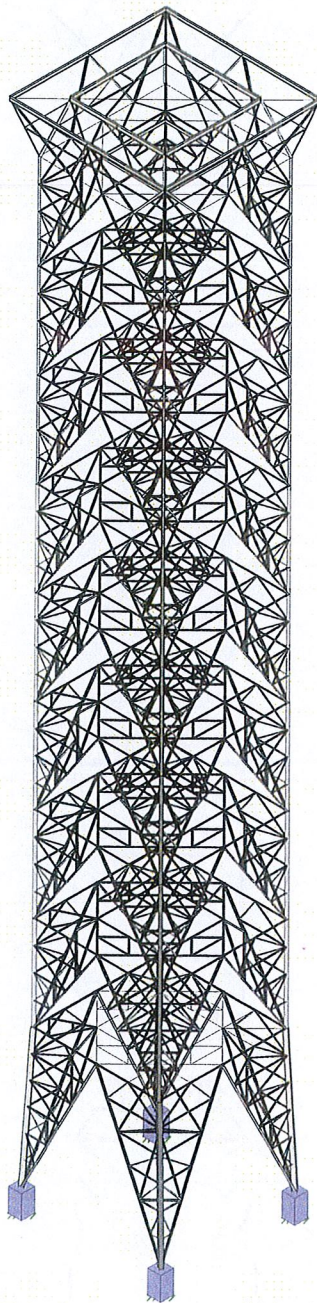
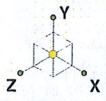
Member	Shape	Code Check	Loc[ft]	LC	Shear Ch...	Loc[ft]	Dir	LC	Pnc/om [k]	Pnt/om [k]	Mnvy/om [k-...	Mnzz/om [k-...	Cb	Egn
1168	M1195A	L2.5X2.5X3	4.485	2	.002	0	Y	7	2.491	19.401	.58	.893	1....	H2-1
1169	M1196A	L2.5X2.5X3	4.875	6	.002	0	Y	7	2.491	19.401	.58	.893	1....	H2-1
1170	M1200A	L2.5X2.5X3	4.485	8	.002	9.361	Y	8	2.491	19.401	.58	.893	1....	H2-1
1171	M1201A	L2.5X2.5X3	4.875	4	.002	0	Y	9	2.491	19.401	.58	.893	1....	H2-1
1172	M1205A	L2.5X2.5X3	4.485	6	.002	0	Y	6	2.491	19.401	.58	.893	1....	H2-1
1173	M1206A	L2.5X2.5X3	4.875	2	.002	9.361	Y	9	2.491	19.401	.58	.893	1....	H2-1
1174	M1210A	L2.5X2.5X3	4.485	4	.002	0	Y	3	2.491	19.401	.58	.893	1....	H2-1
1175	M1211A	L2.5X2.5X3	4.875	8	.002	9.361	Y	7	2.491	19.401	.58	.893	1....	H2-1
1176	M1194A	LL2.5x2.5x3x3	6.333	8	.003	0	Y	1	6.961	38.802	2.635	1.696	1	H1-1b
1177	M1199A	LL2.5x2.5x3x3	6.333	2	.003	0	Y	1	6.961	38.802	2.635	1.696	1	H1-1b
1178	M1204A	LL2.5x2.5x3x3	6.333	4	.003	0	Y	1	6.961	38.802	2.635	1.696	1	H1-1b
1179	M1209A	LL2.5x2.5x3x3	6.333	6	.003	0	Y	1	6.961	38.802	2.635	1.696	1	H1-1b

Concrete Column Design Results

Column	Shape	UC Max	Loc[ft]	UC LC	Shear UC	Loc[ft]	Dir	Phi used	Pn[k]	Mnvy[k-ft]	Mnzz[k-ft]	Vnv[k]	Vnz[k]
1	M1252A	CRECT42X42	.162	7	.178	.194	Y	.65	4900.359	4421.462	4736.437	338.243	338.243
2	M1253A	CRECT42X42	.163	5	.171	.194	Y	.65	4929.828	4425.389	4741.824	338.243	338.243
3	M1254A	CRECT42X42	.161	3	.16	.194	Y	.65	4908.691	4419.985	4734.411	338.243	338.243
4	M1255A	CRECT42X42	.161	9	.168	.194	Y	.65	4890.119	4419.319	4733.497	338.243	338.243

APPENDIX C

Tower Elevation Drawing



Solution: Envelope

GPD Group

awestrum

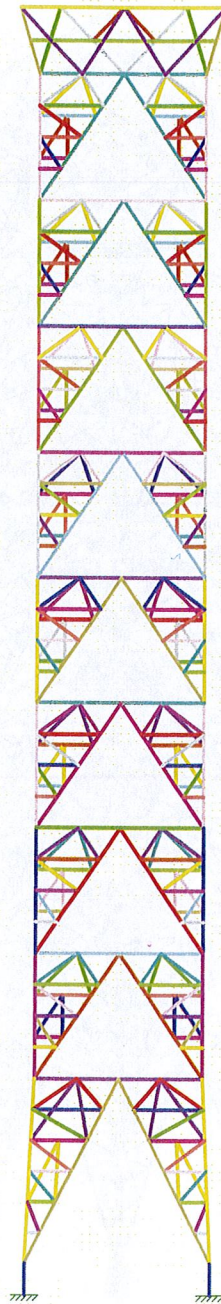
2012856.72

TAG0053 CHESHIRE

SK - 1

Aug 13, 2012 at 6:54 PM

TAG0053.r3d



Section Sets

na
TWR_LEG_T1
TWR_HORZ_IN_T1
TWR_DIAG_IN_T1
TWR_RED_HORZ_IN_T1
TWR_RED_SUB_H_IN_T1
TWR_RED_SUB_D_IN_T1
TWR_HORZ_OUT_T1
TWR_DIAG_OUT_T1
TWR_DIAG_OUT_KICK_T1
TWR_RED_HORZ_OUT_T1
TWR_LEG_T2
TWR_DIAG_T2
TWR_RED_HORZ_T2
TWR_RED_HORZ_2_T2
TWR_RED_DIAG_T2
TWR_RED_HORZ_3_T2
TWR_RED_DIAG_2_T2
TWR_RED_DIAG_3_T2
TWR_RED_HIP_HORZ_1_T2
TWR_RED_HIP_HORZ_2_T2
TWR_RED_HIP_DIAG_1_T2
TWR_RED_HIP_DIAG_2_T2
TWR_INNER_SQUARE_T2
TWR_INNER_CORNER_T2
TWR_LEG_T3
TWR_HORZ_T3
TWR_DIAG_T3
TWR_RED_HORZ_T3
TWR_RED_HORZ_2_T3
TWR_RED_DIAG_T3
TWR_RED_HORZ_3_T3
TWR_RED_DIAG_2_T3
TWR_RED_DIAG_3_T3
TWR_RED_HIP_HORZ_1_T3
TWR_RED_HIP_HORZ_2_T3
TWR_RED_HIP_DIAG_1_T3
TWR_RED_HIP_DIAG_2_T3
TWR_INNER_SUPP_T3
TWR_INNER_SQUARE_T3
TWR_INNER_GIRT_T3
TWR_INNER_TRIANGLE_T3
TWR_INNER_CORNER_T3
TWR_INNER_LADDER_T3
TWR_LEG_T4
TWR_HORZ_T4
TWR_DIAG_T4
TWR_RED_HORZ_T4
TWR_RED_HORZ_2_T4
TWR_RED_DIAG_T4
TWR_RED_HORZ_3_T4
TWR_RED_DIAG_2_T4
TWR_RED_DIAG_3_T4
TWR_RED_HIP_HORZ_1_T4
TWR_RED_HIP_HORZ_2_T4
TWR_RED_HIP_DIAG_1_T4
TWR_RED_HIP_DIAG_2_T4
TWR_INNER_SUPP_T4
TWR_INNER_SQUARE_T4
TWR_INNER_GIRT_T4
TWR_INNER_TRIANGLE_T4
TWR_INNER_CORNER_T4
TWR_INNER_LADDER_T4
TWR_LEG_T5
TWR_HORZ_T5
TWR_DIAG_T5
TWR_RED_HORZ_T5
TWR_RED_HORZ_2_T5
TWR_RED_DIAG_T5
TWR_RED_HORZ_3_T5
TWR_RED_DIAG_2_T5
TWR_RED_DIAG_3_T5
TWR_RED_HIP_HORZ_1_T5
TWR_RED_HIP_HORZ_2_T5
TWR_RED_HIP_DIAG_1_T5
TWR_RED_HIP_DIAG_2_T5
TWR_INNER_SUPP_T5
TWR_INNER_SQUARE_T5
TWR_INNER_GIRT_T5
TWR_INNER_TRIANGLE_T5
TWR_INNER_CORNER_T5
TWR_INNER_LADDER_T5
TWR_LEG_T6
TWR_HORZ_T6
TWR_DIAG_T6
TWR_RED_HORZ_T6
TWR_RED_HORZ_2_T6
TWR_RED_DIAG_T6
TWR_RED_HORZ_3_T6
TWR_RED_DIAG_2_T6
TWR_RED_DIAG_3_T6
TWR_RED_HIP_HORZ_1_T6
TWR_RED_HIP_HORZ_2_T6
TWR_RED_HIP_DIAG_1_T6
TWR_RED_HIP_DIAG_2_T6
TWR_INNER_SUPP_T6
TWR_INNER_SQUARE_T6
TWR_INNER_GIRT_T6
TWR_INNER_TRIANGLE_T6
More...

Solution: Envelope

GPD Group

awestrum

2012856.72

TAG0053 CHESHIRE

SK - 2

Aug 13, 2012 at 6:55 PM

TAG0053.r3d

Feedline Plan

Round

Flat

App In Face

App Out Face

(9) LDF7-50A (1-5/8 FOAM)
Feedline Ladder (A1)

(9) LDF7-50A (1-5/8 FOAM)
(6) RET Cable
(6) LDF7-50A (1-5/8 FOAM)
(13) LDF7-50A (1-5/8 FOAM)
(3) LDF7-50A (1-5/8 FOAM)

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

(11) 1" Rigid Conduit
Feedline Ladder (A1)

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

Power Cable (1/2")
Climbing Ladder
1-3/4" Rigid Conduit



Consulting Engineers

GPD Group
520 South Main St
Akron, OH 44311
Phone: (330) 572-2100
FAX: (330) 572-2102

Job: TAG0053 CHESHIRE		
Project: 2012856.72		
Client: AT&T Mobility	Drawn by: awestrump	App'd:
Code: TIA/EIA-222-F	Date: 08/13/12	Scale: NTS
Path:	Dwg No. E-7	

C:\Users\awestrump\Desktop\AW-Work\TAX Project Towers\2012\201285672\untag0053.dwg

Feedline Plan 36'9-31/32"

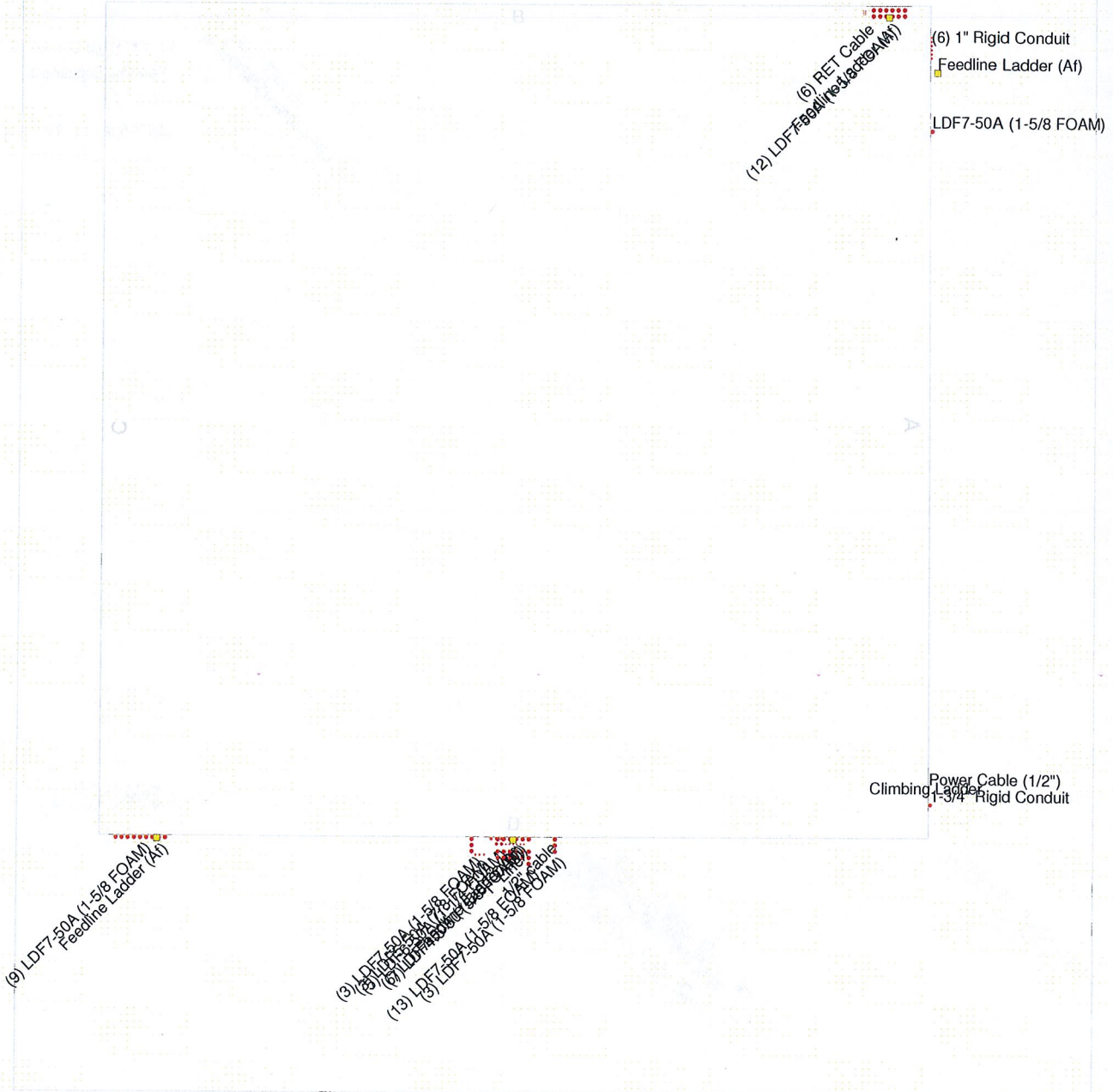
Round

Flat

App In Face

App Out Face

Section @ 36'9-31/32"



Consulting Engineers

GPD Group
520 South Main St
Akron, OH 44311
Phone: (330) 572-2100
FAX: (330) 572-2102

Job: **TAG0053 CHESHIRE**

Project: **2012856.72**

Client: **AT&T Mobility**

Code: **TIA/EIA-222-F**

Path:

Drawn by: **awestrum**

Date: **08/13/12**

App'd:

Scale: **NTS**

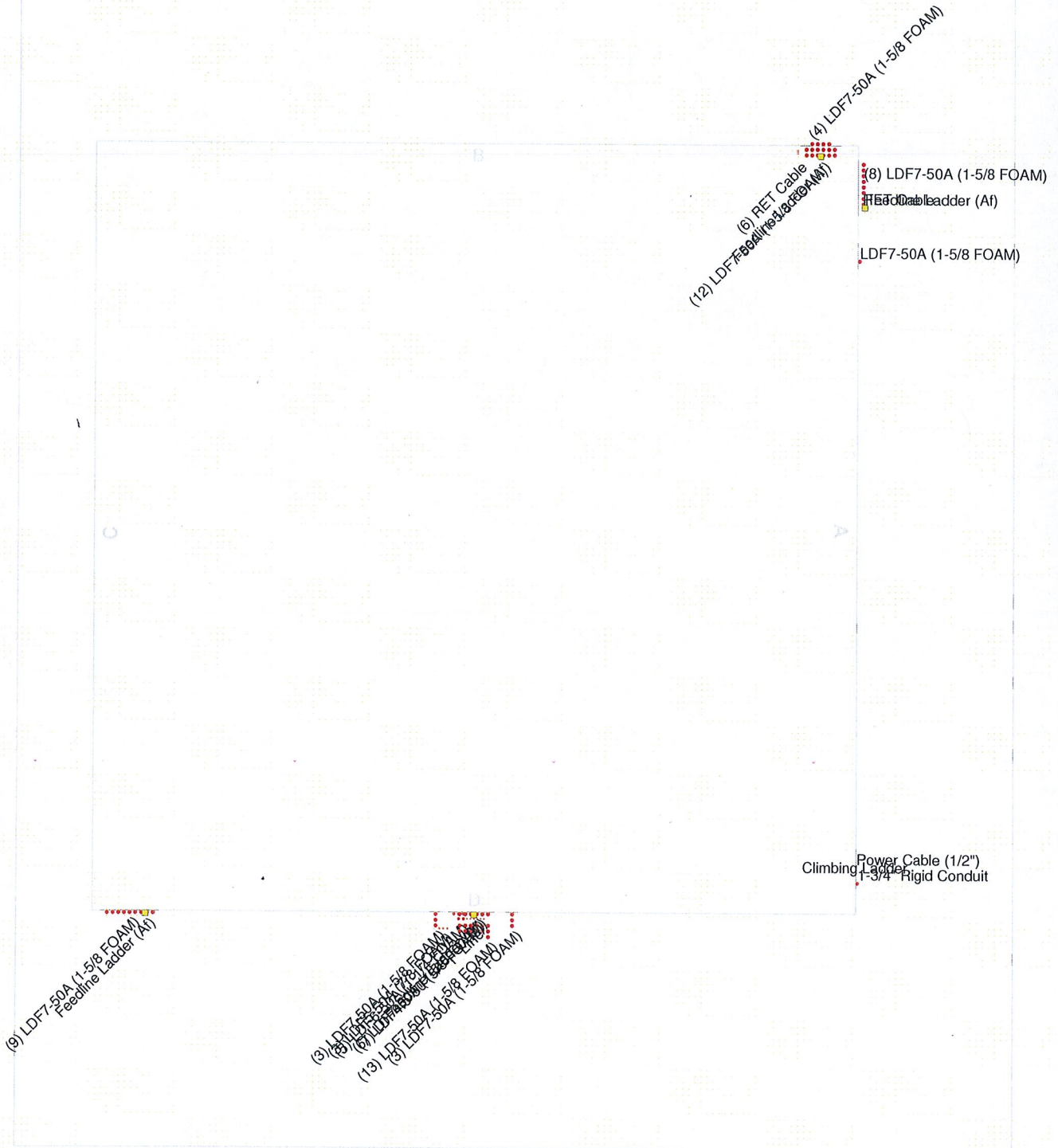
Dwg No. **E-7**

C:\Users\awestrum\Desktop\AW-Work\TNX Project Towers\2012012856\72\tnx\TAG0053.dwg

Feedline Plan 61'9-31/32"

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

Section @ 61'9-31/32"



GPD Group

520 South Main St
Akron, OH 44311
Phone: (330) 572-2100
FAX: (330) 572-2102

Consulting Engineers

Job: **TAG0053 CHESHIRE**

Project: **2012856.72**

Client: **AT&T Mobility**

Drawn by: **awestrump**

App'd:

Code: **TIA/EIA-222-F**

Date: **08/13/12**

Scale: **NTS**

Path: **C:\Users\awestrump\Desktop\AW-Work\TAX Project Towers\2012\201285672\TAX\TAG0053.dwg**

Dwg No. **E-7**