



P-04-19 Addendum 2

Big Span Structures, LLC.

Supplier Response

Event Information

Number: P-04-19 Addendum 2
Title: Custom Roof Addition for Seating Coverage
Type: Request for Proposals
Issue Date: 11/5/2018
Deadline: 12/19/2018 02:00 PM (ET)
Notes: The City is seeking proposals from qualified firms to provide turnkey design and installation services of a custom roof system to provide full coverage over the seating area at the Amphitheater (The Amp).

The City will receive sealed proposals until, 2:00 p.m. (local), on December 19, 2018. Proposals must be submitted electronically through the eBid System on or before the due date/time stated above. Any proposal received after the due date and time specified, will not be considered. Any uncertainty regarding the time a proposal is received will be resolved against the Proposer.

Proposer must be registered on the City's eBid System in order to view the solicitation documents and respond to this solicitation. The complete solicitation document can be downloaded for free from the eBid System as a pdf at: <https://pompanobeachfl.ionwave.net/CurrentSourcingEvents.aspx>. The City is not responsible for the accuracy or completeness of any documentation the Proposer receives from any source other than from

the eBid System. Proposer is solely responsible for downloading all required documents. A list of proposers will be read aloud in a public forum.

Mandatory Pre Proposal Meeting and Mandatory Walk-Thru

There will be a mandatory pre proposal meeting and mandatory walk-thru to review the City's expectations for the project, including backgrounds and scopes, and to answer questions from potential proposers on November 14, 2018, beginning at 2:00 p.m. in The AMP, 1801 Northeast 6th Street, Pompano Beach, Florida, 33060.

Applicants are required to attend the mandatory site meeting with Parks and Recreation personnel to develop the entire scope of work including, but not limited to design, permitting and installation services. Proposers must set aside up to 2 hours for the walk-thru including time for questions, photos, etc. Proposals will not be accepted from firms that do not attend these mandatory meetings.

Contact Information

Contact: Jill Press
Address: 1190 NE 3rd Avenue
Building C
Purchasing
Pompano Beach, FL 33060
Phone: 954 (786) 4098 x
Email: purchasing@copbfl.com

Big Span Structures, LLC. Information

Contact: Terry Nee
Address: Big Span Structures, LLC.
1566 N Meadowcrest Blvd.
Crystal River, FL 34429
Phone: (352) 419-4890
Fax: (352) 419-4892
Email: terrynee@bigspans.com

By submitting this Response I affirm I have received, read and agree to the all terms and conditions as set forth herein. I hereby recognize and agree that upon execution by an authorized officer of the City of Pompano Beach, this Response, together with all documents prepared by or on behalf of the City of Pompano Beach for this solicitation, and the resulting Contract shall become a binding agreement between the parties for the products and services to be provided in accordance with the terms and conditions set forth herein. I further affirm that all information and documentation contained within this response to be true and correct, and that I have the legal authority to submit this response on behalf of the named Supplier (Offeror).

Terrence Nee

Signature

Submitted at 12/19/2018 10:19:12 AM

terrynee@bigspans.com

Email

Requested Attachments

Bid Proposal

Bid Package Pompano 12-19-18.pdf

This form must be completed and uploaded to the Response Attachments tab.

T1 T2 Form Tier 1/Tier 2 Compliance Form

5 - T1 - T2 Does not apply.doc

Your response must be uploaded to the Response Attachments tab

Financial Statements

9 - Financial Statements.pdf

Your Financial information must be marked "Confidential" and uploaded to the Response Attachments tab

Qualification of Bidders Form

8 - C Qualifications Of Bidders Form - completed.pdf

This form must be completed and uploaded to the Response Attachments tab.

Project Team Form

8 - A Project_Team_Form - Completed.pdf

This form must be completed and uploaded to the Response Attachments tab.

Proposers Information Form

8 - B Proposer_Information_Page_Form.pdf

This form must be completed and uploaded to the Response Attachments tab.

Local Business Forms

5 - Exhibit A-D Does not apply.pdf

These forms must be completed and uploaded to the Response Attachments tab.

Bid Attributes

1 Terms & Conditions

Check the box indicating you agree to the terms and conditions of this solicitation.

☐ Agree

2 Acknowledgement of Addenda

Check this box to acknowledge that you have reviewed all addenda issued for this solicitation.

3 Substantial Project Completion

Provide the number of calendar days that the construction of the Project will be substantially complete after the date when the Contract Time commences to run as provided in the general conditions.

4 Final Project Completion

Provide the number of calendar days, after the substantial completion date, that the construction of the Project will be completed and ready for final payment.

5 Conflict of Interest

For purposes of determining any possible conflict of interest, all bidders must disclose if any City of Pompano Beach employee is also an owner, corporate officer, or employee of their business. Indicate either "Yes" (a City employee is also associated with your business), or "No". (Note: If answer is "Yes", you must file a statement with the Supervisor of Elections, pursuant to Florida Statutes 112.313.) Indicate Yes or No below with the drop down menu.

6 Drug-Free Workplace

Preference must be given to Contractors submitting certification with their bid or proposal, certifying they have a drug-free workplace in accordance with Florida Statutes, Section 287.087. This requirement affects all public entities of the State and becomes effective January 1, 1991. Preference shall be given to businesses with drug-free workplace programs. Whenever two or more bids which are equal with respect to price, quality and service are received by the State or by any political subdivision for the procurement of commodities or contractual services, a bid received from a business that certifies that it has implemented a drug-free workplace program shall be given preference in the award process. Established procedures for processing tie bids will be followed if none of the tied vendors have a drug-free workplace program. In order to have a drug-free workplace program, a business shall: (1) Publish a statement notifying employees that the unlawful manufacture, distribution, dispensing, possession, or use of a controlled substance is prohibited in the workplace and specifying the actions that will be taken against employees for violations of such prohibition. (2) Inform employees about the dangers of drug abuse in the workplace, the business's policy of maintaining a drug-free workplace, any available drug counseling, rehabilitation and employee assistance programs, and the penalties that may be imposed upon employees for drug abuse violations. (3) Give each employee engaged in providing the commodities or contractual services that are under bid, a copy of the statement specified in subsection (1). (4) In the statement specified in subsection (1) notify the employees that as a condition of working on the commodities or contractual services that are under bid, the employee will abide by the terms of the statement and will notify the employer of any conviction of, or plea of guilty or nolo contendere to, any violation of Chapter 893 or of any controlled substance law of the United States or any state, for a violation occurring in the workplace, no later than five (5) days after such conviction. (5) Impose a sanction on, or require the satisfactory participation in, a drug abuse assistance or rehabilitation program if such is available in the employee's community, by an employee who is so convicted. (6) Make a good faith effort to continue to maintain a drug-free workplace through implementation of this section. Select Yes below from the drop down menu to certify that your firm complies with the above requirements.

7 Vendor Certification Regarding Scrutinized Companies Lists (Over \$1,000,000.00)

Section 287.135, Florida Statutes, prohibits agencies from contracting with companies, for goods or services over \$1,000,000, that are on either the Scrutinized Companies with Activities in Sudan List or the Scrutinized Companies with Activities in the Iran Petroleum Energy Sector List. Further, Section 215.4725, Florida Statutes, prohibits agencies from contracting (at any dollar amount) with companies on the Scrutinized Companies that Boycott Israel List, or with companies that are engaged in a boycott of Israel. As the person authorized to electronically sign on behalf of Respondent, I hereby certify by selecting the box below that the company responding to this solicitation is not listed on the Scrutinized Companies with Activities in Sudan List, the Scrutinized Companies with Activities in the Iran Petroleum Energy Sector List, or the Scrutinized Companies that Boycott Israel List. I also certify that the company responding to this solicitation is not participating in a boycott of Israel, and is not engaged in business operations in Syria or Cuba. I understand that pursuant to sections 287.135 and 215.4725, Florida Statutes, the submission of a false certification may subject company to civil penalties, attorney's fees, and/or costs.

☐ Certified

8 Local Business Participation Percentage

If you have indicated local business participation on the Local Business Participation Form Exhibit A enter the percentage of the contract that will be performed by local Pompano Beach businesses.

20%



December 19, 2018

RFP Number: P-04-19
RFP Name: City of Pompano Beach
Amphitheater – Custom Roof Addition for
Seating Coverage



1566 N. Meadowcrest Blvd.
Crystal River, Florida 34429
Contact: Timothy R. Nee
www.bigspans.com



RFP Number: P-04-19
RFP Name: City of Pompano Beach
Amphitheater – Custom Roof Addition for
Seating Coverage

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1. Letter of Transmittal



Letter of Transmittal

It is with great pleasure and enthusiasm that Big Span Structures, LLC submits this proposal for a turnkey, state-of-the-art tensile fabric amphitheater seating cover in collaboration with Recreational Design & Construction, Inc. As a service to the City of Pompano, Big Span has proactively carried out the full engineering and design of this unique structure in order to mitigate cost overruns and to ensure total compliance with the City's stated project budget. During the process of developing our full structural analysis, Big Span has maintained strategic communication with Recreational Design & Construction to be certain of compatibility and accuracy with foundational requirements. Recreational Design & Construction has made several site visits for the purpose of generating reliable cost data for: site preparation, footing installation, and site restoration. Big Span has also included several dynamic, photo-realistic renderings in this package which clearly depict the exact aesthetics of the new building, courtesy of Big Span's staff architects. Our team is poised and prepared to provide the City of Pompano with an amphitheater design that we feel will be the city's architectural pinnacle and a great source of pride for many years to come.

Big Span Structures offers concept-to-completion, highly customized: design, engineering, manufacturing, fabrication, and installation solutions for: tensile cable, frame supported, and air supported fabric-clad structures with a customer-focused service model. Big Span's Executive Management Team brings over a century of combined, highly-specialized knowledge & experience to the table. With a diverse skill set and collaborative, service-driven management style, Big Span Structures is uniquely positioned to outpace its competitors in the design and development of lightweight spanning structures, from the most basic to the highest levels of complexity.

In our 40-year history, Big Span has successfully installed over 500,000,000 ft² of structures globally. These range from sports complexes and stadiums to: cultural venues, hangars, amphitheaters, containment facilities, industrial complexes, shopping centers, hotels, commercial buildings, and a wide variety of architectural accents and upgrades such as facades, umbrellas, and walkways.

In appreciation of the fact that the best business investments are made in human capital and capabilities, Big Span employs a mixed staff of full-time employees and independent contractors, about 200 strong, with backgrounds, educations, and experiences from a multitude of different fields. We understand that experts must also be perpetual students in our field, therefore Big Span's concept and design team are constantly researching the latest market trends and familiarizing ourselves with cutting-

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edge techniques. As a result, Big Span's creative capability and state-of-the-art materials and techniques assure that we are completely unbound by conventional rules of geometry for self-supporting structures. What this means for Big Span's customers is that, as we often say, "If you can imagine it, we can bring it to life."

HEADQUARTER OFFICE

1566 N Meadowcrest Blvd.
Crystal River Fl., 34429
P: 352-419-4890
F: 352-419-4892

Name of authorized to make representations

German Buitrago	Director of Operations	gbuitrago@bigspans.com
Timothy Nee	Managing Member	tim@bigspans.com
Dante Velasco	Lead Architect	dante@bigspans.com
Terrence Nee	Procurement	terrynee@bigspans.com
Marina Burdick	Communications	marina@bigspans.com



2. Fees & Costs



Fees & Costs

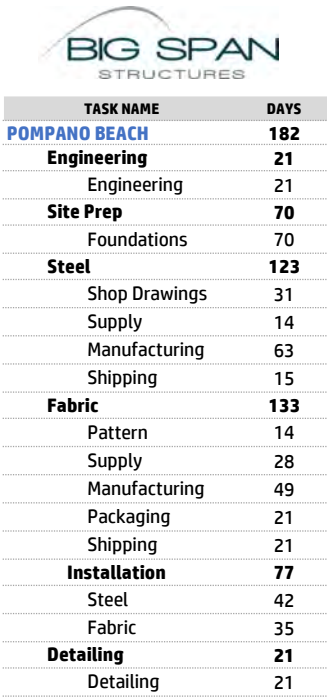
Include a concise narrative with sufficient detail indicating the proposed approach to providing the required services, including a description of the types and qualities of service that would be provided. **Provide a cost for each of the major services provided along with the estimated number of expected work hours for each qualified staff.** Refer to Table Below as well as Attached Production Schedule.

Proposer shall itemize all costs to complete all and necessary tasks as described under Scope of Services. Costs associated with travel as well as miscellaneous expenses should be adequately described.

Item No.	Description	Unit	Estimated Quantity	Unit Price	Total Cost
1	Engineering – Pattern, Drawing, and Design of all Components. Man Hours Needed: 632 Hrs	Each	1	\$64,642.86	\$64,642.86
2	Site Prep – Foundation. Man Hours Needed: 3,808 Hrs	Each	1	\$459,142.86	\$459,142.86
3	Steel – Supply, Manufacturing, & Shipping. Man Hours Needed: 7,646 Hrs	Each	1	\$1,294,760.54	\$1,294,760.54
4	Fabric - Supply, Manufacturing, Packaging, and Shipping. Man Hours Needed: 2,320 Hrs	Each	1	\$589,952.86	\$589,952.86
5	Installation – Steel Frame Assembly and Fabric Installation on site. Man Hours Needed: 4,400 Hrs	Each	1	\$940,589.29	\$940,589.29
6	Detailing – Finalizing and Clean Up. Man Hours Needed: 1,056 Hrs	Each	1	\$148,885.71	\$148,885.71
TOTAL CHARGE FOR SERVICES					\$3,497,974.12



3. Schedule



SCHEDULE-POMPANO BEACH AMPHITHEATER

[illegible]



4. References



1. MID FLORIDA AMPHITHEATER

CLIENT: Birdair, Inc., David P. Capezzuto, Ph: 716-204-0600

ADDRESS: 4802 US HIGHWAY 301 NORTH, TAMPA, FL 33610

PROJECT MANAGER: RICK LAXTON

TEAM: RODOLFO ULLOA

OBJECTIVES: FAST-TRACK THE FABRICATION & INSTALLATION OF 140,000 S.F. OF NEW FABRIC ROOF DURING CONCERT SERIES BREAK OF (3) MONTHS.

DATES: NOVEMBER 2016

NOTABLE: RECENTLY SURVIVED HURRICANE IRMA WITH NO DAMAGE.



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www.bigspans.com



2. UNIVERSAL VOLCANO BAY

CLIENT: Birdair, Inc., David P. Capezzuto, Ph: 716-204-0600

ADDRESS: # 6000 UNIVERSAL BLVD. ORLANDO FLORIDA

PROJECT MANAGER: RICK LAXTON

TEAM: RODOLFO ULLOA

CHALLENGE: (35) PRINTED FABRIC CANOPIES INSTALLED FAST-TACK.

DATES: MAY 2016 – MARCH 2017.

NOTABLE: RECENTLY SURVIVED HURRICANE IRMA WITH NO DAMAGE.



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T +1.352.419.4890

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3. DADELAND STATION MALL

CLIENT: DADELAND STATION ASSOCIATES/BERKOWITZ DEVELOPMENT GROUP

ADDRESS: 2665 SOUTH BAYSHORE DRIVE, SUITE 1200, COCONUT GROVE, FL 33133

PROJECT MANAGER: TIMOTHY NEE

TEAM: RODOLFO ULLOA
DANTE VELASCO

CHALLENGE: 4TH STORY OPEN-AIR (90' CLEAR X 245' LONG) ATRIUM CANOPY.
2006 METRO DADE DESIGN LOAD: 146 MPH

DATES: MAY 2006 – OCTOBER 2017



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www.bigspans.com



**Local Business Exhibit A-D
Does not apply**



6. General Contractor License and Past Fabric Structure Projects

BROWARD COUNTY LOCAL BUSINESS TAX RECEIPT

115 S. Andrews Ave., Rm. A-100, Ft. Lauderdale, FL 33301-1895 – 954-831-4000

VALID OCTOBER 1, 2018 THROUGH SEPTEMBER 30, 2019

DBA:
Business Name: RECREATIONAL DESIGN & CONSTRUCTION
INC

Receipt #: 180-4237
Business Type: GENERAL CONTRACTOR (GENERAL
CONTRACTOR)

Owner Name: JOSEPH CERRONE III
Business Location: 3990 POWERLINE RD
FT LAUDERDALE
Business Phone: 954-587-1427

Business Opened: 01/07/1994
State/County/Cert/Reg: CGCA21702
Exemption Code:

Rooms

Seats

Employees
3

Machines

Professionals

For Vending Business Only						
Number of Machines:				Vending Type:		
Tax Amount	Transfer Fee	NSF Fee	Penalty	Prior Years	Collection Cost	Total Paid
27.00	0.00	0.00	0.00	0.00	0.00	27.00

THIS RECEIPT MUST BE POSTED CONSPICUOUSLY IN YOUR PLACE OF BUSINESS

THIS BECOMES A TAX RECEIPT

WHEN VALIDATED

This tax is levied for the privilege of doing business within Broward County and is non-regulatory in nature. You must meet all County and/or Municipality planning and zoning requirements. This Business Tax Receipt must be transferred when the business is sold, business name has changed or you have moved the business location. This receipt does not indicate that the business is legal or that it is in compliance with State or local laws and regulations.

Mailing Address:

JOSEPH CERRONE III
3990 POWERLINE RD
FORT LAUDERDALE, FL 33309



Receipt # 1CP-17-00015784
Paid 07/19/2018 27.00

2018 - 2019



RICK SCOTT, GOVERNOR

JONATHAN ZACHEM, SECRETARY



**STATE OF FLORIDA
DEPARTMENT OF BUSINESS AND PROFESSIONAL REGULATION**

CONSTRUCTION INDUSTRY LICENSING BOARD

THE GENERAL CONTRACTOR HEREIN IS CERTIFIED UNDER THE
PROVISIONS OF CHAPTER 489, FLORIDA STATUTES

CERRONE, JOSEPH C III

RECREATIONAL DESIGN & CONSTRUCTION INC
3990 NORTH POWERLINE ROAD
FORT LAUDERDALE FL 33309

LICENSE NUMBER: CGCA21702

EXPIRATION DATE: AUGUST 31, 2020

Always verify licenses online at MyFloridaLicense.com



Do not alter this document in any form.

This is your license. It is unlawful for anyone other than the licensee to use this document.



General Contractor License and Past Fabric Structure Projects

Project Reference #1



Project Reference #2



Project Reference #3





7. Litigation



Litigation Disclosure

There has been no litigations within the past five years arising out of our firms performance.



8. City Forms

A Project_Team_Form

B Proposer_Information_Page_Form

C Qualifications Of Bidders Form – completed

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COMPLETE THE PROJECT TEAM FORM ON THE ATTACHMENTS TAB IN THE EBID SYSTEM. PROPOSERS ARE TO COMPLETE FORM IN ITS ENTIRITY AND INCLUDE THE FORM IN YOUR PROPOSAL THAT MUST BE UPLOADED TO THE RESPONSE ATTACHMENTS TAB FOR THE RLI IN THE EBID SYSTEM.

PROJECT TEAM

RLI NUMBER _____

Federal I.D.# _____

PRIME

Role	Name of Individual Assigned to Project	Number of Years Experience	Education, Degrees
Principal-In-Charge	_____	_____	_____
Project Manager	_____	_____	_____
Asst. Project Manager	_____	_____	_____
Other Key Member	_____	_____	_____
Other Key Member	_____	_____	_____

SUB-CONSULTANT

Role	Company Name and Address of Office Handling This Project	Name of Individual Assigned to the Project
Surveying	_____ _____	_____ _____
Landscaping	_____ _____	_____ _____
Engineering	_____ _____	_____ _____
Other Key Member	_____ _____	_____ _____
Other Key Member	_____ _____	_____ _____
Other Key Member	_____ _____	_____ _____
Other Key Member	_____ _____	_____ _____

(use attachments if necessary)

COMPLETE THE PROPOSER INFORMATION FORM ON THE ATTACHMENTS TAB IN THE EBID SYSTEM. PROPOSERS ARE TO COMPLETE FORM IN ITS ENTIRITY AND INCLUDE THE FORM IN YOUR PROPOSAL THAT MUST BE UPLOADED TO THE RESPONSE ATTACHMENTS TAB FOR THE RFP IN THE EBID SYSTEM.

PROPOSER INFORMATION PAGE

RFP _____, _____
(number) (RFP name)

To: The City of Pompano Beach, Florida

The below named company hereby agrees to furnish the proposed services under the terms stated subject to all instructions, terms, conditions, specifications, addenda, legal advertisement, and conditions contained in the RFP. I have read the RFP and all attachments, including the specifications, and fully understand what is required. By submitting this proposal, I will accept a contract if approved by the City and such acceptance covers all terms, conditions, and specifications of this proposal.

Proposal submitted by:

Name (printed) _____ Title _____

Company (Legal Registered) _____

Federal Tax Identification Number _____

Address _____

City/State/Zip _____

Telephone No. _____ Fax No. _____

Email Address _____

Qualifications Of Bidders Form

BIDDERS ARE TO COMPLETE FORM IN ITS ENTIRITY AND UPLOAD THE COMPLETED FORM TO THE RESPONSE ATTACHMENTS TAB FOR THE BID IN THE EBID SYSTEM

To demonstrate qualifications to perform the Work, and to be considered for award, each Bidder must submit written evidence, such as previous experience, present commitments and other such data as detailed under Bidder's Responsiveness and Responsibility section of the IFB (or in SUPPLEMENTARY CONDITIONS). Each Bid must contain evidence of Bidder's qualification to do business in the State where the Project is located or covenant to obtain such qualification prior to executing the Agreement.

How many years has your organization been in business as a Contractor?

BSS has been in Business for Ten Years and has a Professional Business Relationship with Recreational Design & Construction, Inc.

State of Florida Contractor's license # CGCA21702 _____
Contractor License Types General Contractor

Broward County Certificate of Competency #:
Expiration Date: _____

Have you ever failed to complete work awarded to you? If Yes, where and why?
NO

Have you personally inspected the proposed work and have you a complete plan for its performance?

YES

Will you sub-contract any part of this work? Yes No

If Yes, list all proposed subcontractors to be used on this project if the Bidder is awarded the Contract for this project. The successful Bidder shall submit a COMPLETE list of any work that he proposes to subcontract and the proposed subcontractors prior to execution of the contract.

CLASSIFICATION
OF WORK

NAME AND ADDRESS
OF SUBCONTRACTOR

Design, Engineering, Fabrication, and Installation
of a Tensile Roof System Over Seating

Recreational Design & Construction, Inc;
3990 North Powerline Road I Fort Lauderdale
FL 33309

(Submit any additional contractors to be used on a separate sheet.)

The following information shall be provided for this project:

- (a) Estimated total construction manhours _____
- (b) Percent manhours to be performed by Contractor's permanent staff _____
- (c) Percent manhours to be performed by direct hire employees _____
- (d) Percent manhours to be performed by Subcontractors _____

Equipment

What equipment do you own that is available for the proposed work?

BSS owns all equipment (except cranes and lifts) necessary for the proposed work and it is available to complete the job

What equipment will you rent for the proposed work?

BSS Will rent Cranes and lifts to complete the work

What equipment will you purchase to complete the work?

BSS does not anticipate any additional equipment purchases for the proposed project.

List all work of similar type, complexity, and comparable value as requested under the Bidder's Responsiveness and Responsibility, Responsibility Documentation, Paragraph 2 Prior Project Experience and References of the IFB. (Attach additional information on separate sheet)

Project #1

Project Name MID FLORIDA AMPHITHEATER

Project Owner's Name Live Nation

Phone Number Email address

Contact information for the Project (if different from above)

Birdair, Inc., ADDRESS: 4802 US HIGHWAY 301 NORTH, TAMPA, FL 33610

Contact Person: David P. Capezzuto Phone Number: 716-204-0600 Email Address

Nature of Work: Amphitheater -FAST-TRACK THE FABRICATION & INSTALLATION OF 140,000 S.F. OF NEW FABRIC ROOF DURING CONCERT SERIES BREAK OF (3) MONTHS

Original Contract Completion Time (Days) 90

Original Contract Completion Date March 10th

Actual Final Contract Completion Date March 10th

Original Contract Price \$1,400,000.00

Actual Final Contract Price \$1,400,000.00

Description and Value of Work Completed by Contractor 100% of total project described

Description and Value of Work Completed by Subcontractors N/A

Project #2

Project Name UNIVERSAL VOLCANO BAY

Project Owner's Name Universal Studios

Phone Number Email address

Contact information for the Project (if different from above)

Birdair, Inc., ADDRESS: # 6000 UNIVERSAL BLVD. ORLANDO FLORIDA

Contact Person: David P. Capezzuto Phone Number: 716-204-0600 Email Address

Nature of Work: Amphitheater -(35) PRINTED FABRIC CANOPIES INSTALLED FAST-TRACK.

Original Contract Completion Time (Days) 270

Original Contract Completion Date March 30th

Actual Final Contract Completion Date March 30th

Original Contract Price \$1,200,000.00

Actual Final Contract Price \$1,200,000.00

Description and Value of Work Completed by Contractor 100% of total project described

Description and Value of Work Completed by Subcontractors N/A

DATES: MAY 2006 – OCTOBER 2017

Project #3

Project Name DADELAND STATION MALL

Project Owner's Name DADELAND STATION MALL

Phone Number Email address

Contact information for the Project (if different from above)

ADDRESS: 2665 SOUTH BAYSHORE DRIVE, SUITE 1200, COCONUT GROVE, FL 33133

Contact Person: BERKOWITZ DEVELOPMENT GROUP

Phone Number: 305-854-2800 Email Address dmarkowitz@berkowitzdev.com

Nature of Work: 4TH STORY OPEN-AIR (90' CLEAR X 245' LONG) ATRIUM CANOPY. 2006 METRO DADE DESIGN LOAD: 146 MPH – Originally Installed and further maintained from 2006 to 2017.

Original Contract Completion Time (Days) 90 original plus Fabric recover in 2017. Post Hurricane Damage.

Original Contract Completion Date October 20th

Actual Final Contract Completion Date October 20th

Original Contract Price \$2,300,000.00

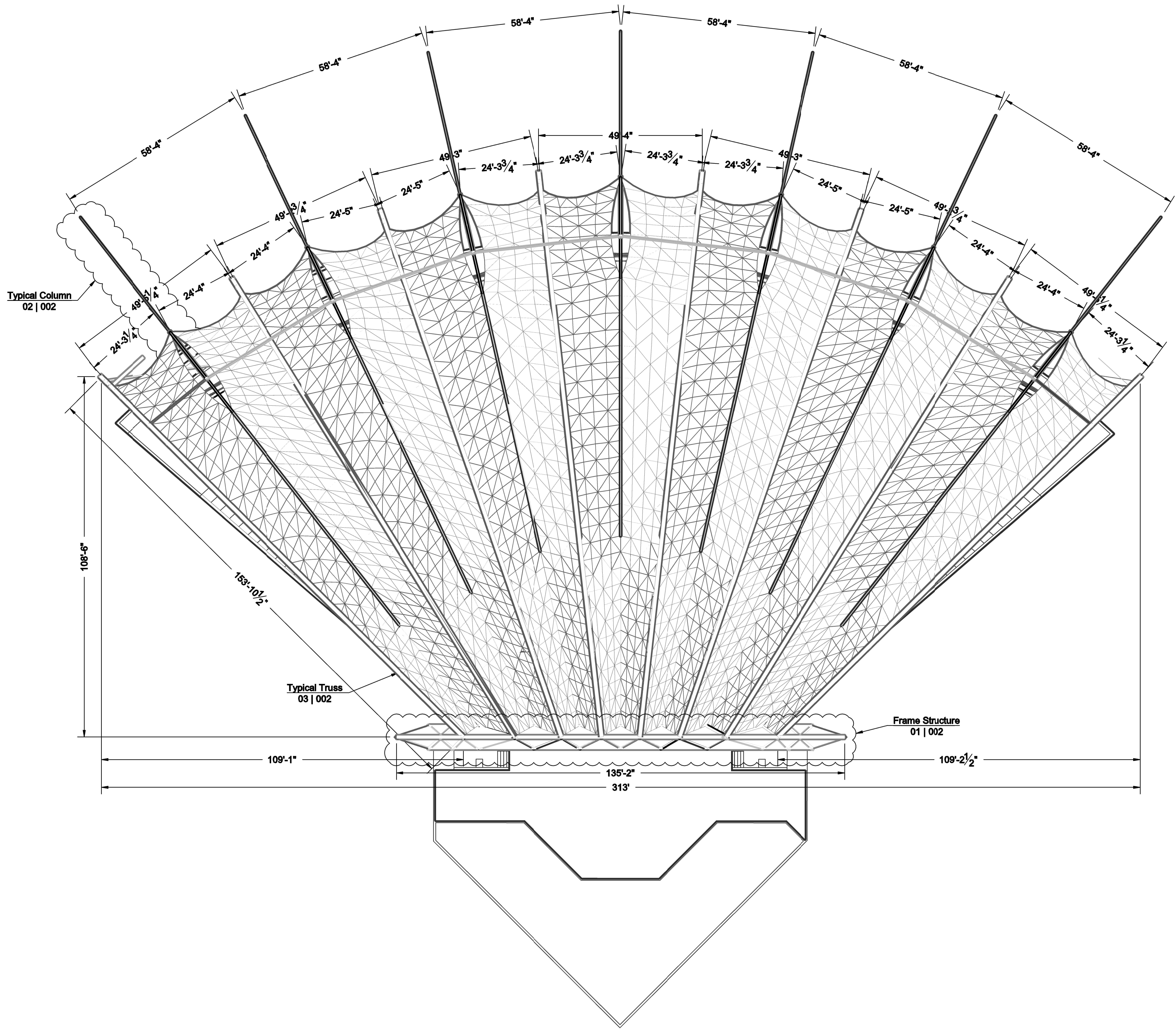
Actual Final Contract Price \$2,300,000.00

Description and Value of Work Completed by Contractor 100% of total project described

Description and Value of Work Completed by Subcontractors N/A

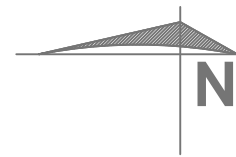


10. Architectural Drawings and Renderings
A DWG Pompano Beach
B Renderings



01 Floor Plan
000 SCALE: 1/16" = 1' 0"

BIG SPAN STRUCTURES
1566 N. MEADOWCREST BLVD CRYSTAL RIVER, FL 34429
TEL. (352) 419-4890 FAX. (352) 419-4892
EMAIL: ENGINEERING@BIGSPANS.COM



STEEL SPECIFICATIONS:

STRUCTURAL SHAPE	ASTM SPECIFICATION	YIELD STRESS FY (KSI)	TENSILE STRESS FU (KSI)
PLATES A50	ASTM A572-50	50	65
PLATES A36	ASTM A-36	36	58
CIRCULAR HSS	ASTM A500-B	42	58
RECT. HSS	ASTM A500-C	50	62
ANGLE L	ASTM A529-50	50	65
BOLTS	ASTM A325	--	120
WELD	E7018		

BASIC WELD SYMBOLS:

BACK	FILLET	PLUG OR SLOT	FOR OTHER BASIC AND SUPPLEMENTARY WELD SYMBOLS, SEE AWS A2.4			
			GROOVE OR BUTT			
SQUARE	V	BEVEL	U	J	FLARE V	FLARE BEVEL
SUPPLEMENTARY WELD SYMBOLS						
BACKING	SPACER	WELD ALL AROUND	FIELD WELD	CONTOUR		
				FLUSH	CONVEX	

ABBREVIATIONS:

REVISIONS:

NO.	DATE	DESCRIPTION	BY	CHKD
00	27/11/18	REV-00	CCP	

APPROVAL AND STAMP:

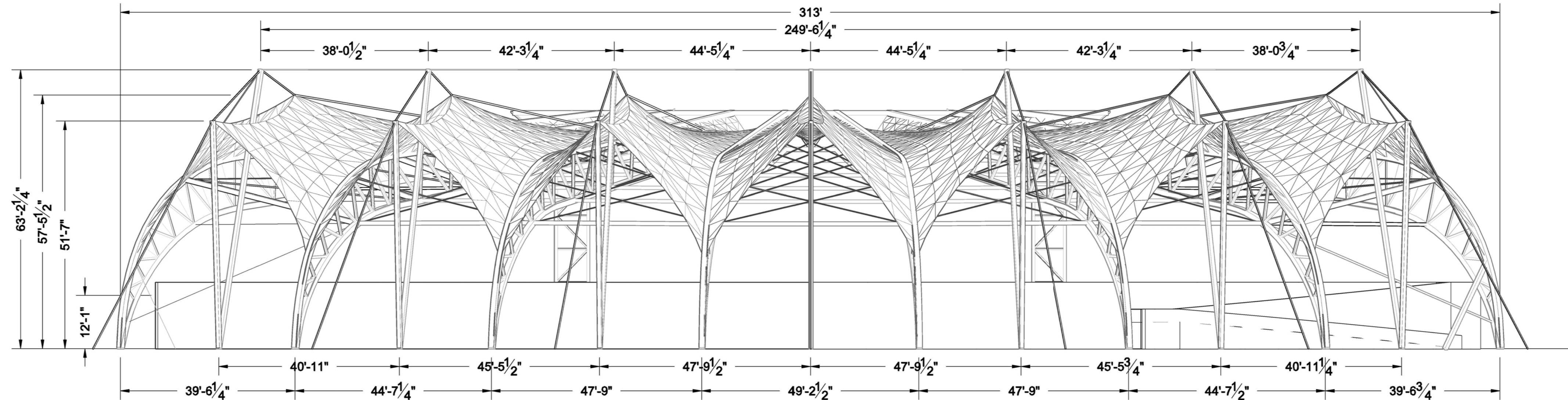
WAYNE RENDELY PE
132 Columbia Street
Huntington Station, NY

PROJECT:

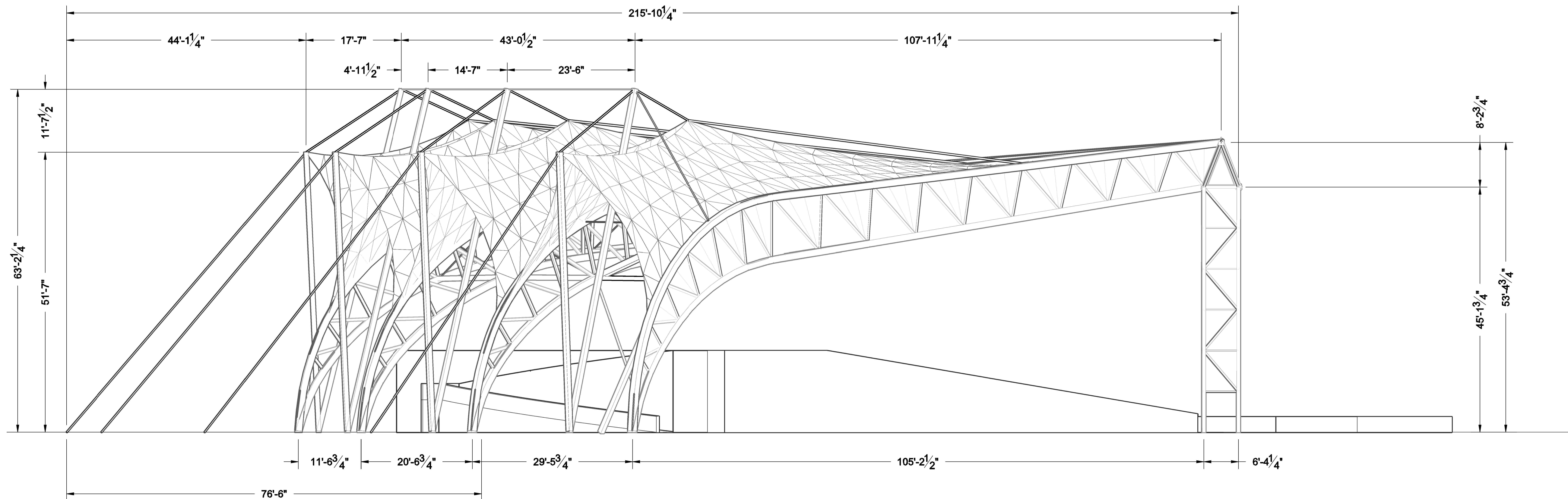
Pompano Beach
Amphitheater

DRAWN BY: CCP	FILE NO: 2018-147
DATE: 27/11/2018	
SCALE: AS SHOWN	
DESCRIPTION: Plan View	
ENGINEER APPROVAL:	SHEET 000
RELEASE DATE:	

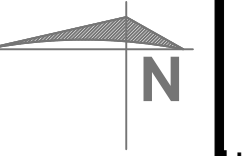
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01 Front Elevation
001 SCALE: 1/16" = 1' 0"



02 Lateral Elevation
001 SCALE: 1/16" = 1' 0"



STEEL SPECIFICATIONS:

STRUCTURAL SHAPE	ASTM SPECIFICATION	YIELD STRESS FY (KSI)	TENSILE STRESS FU (KSI)
PLATES A50	ASTM A572-50	50	65
PLATES A36	ASTM A-36	36	58
CIRCULAR HSS	ASTM A500-B	42	58
RECT. HSS	ASTM A500-C	50	62
ANGLE L	ASTM A529-50	50	65
BOLTS	ASTM A325	--	120
WELD	E7018		

BASIC WELD SYMBOLS:

BACK	FILLET	PLUG OR SLOT	FOR OTHER BASIC AND SUPPLEMENTARY WELD SYMBOLS, SEE AWS A2.4			
GROOVE OR BUTT						
SQUARE	V	BEVEL	U	J	FLARE V	FLARE BEVEL
SUPPLEMENTARY WELD SYMBOLS						
BACKING	SPACER	WELD ALL AROUND	FIELD WELD	CONTOUR		
				FLUSH	CONVEX	

ABBREVIATIONS:

REVISIONS:

NO.	DATE	DESCRIPTION	BY	CHKD
00	27/11/18	REV-00	CCP	

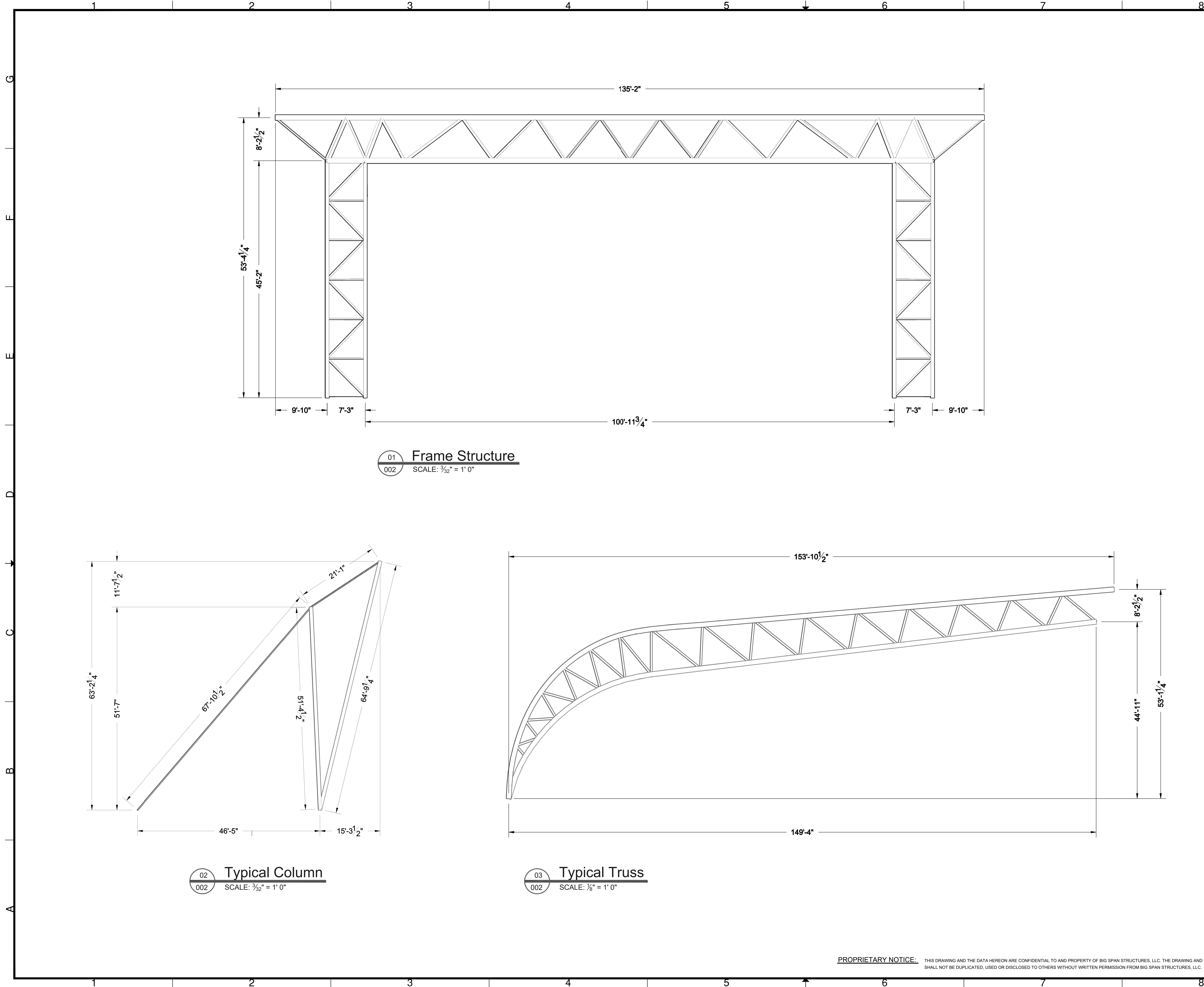
APPROVAL AND STAMP:

WAYNE RENDELY PE
132 Columbia Street
Huntington Station, NY

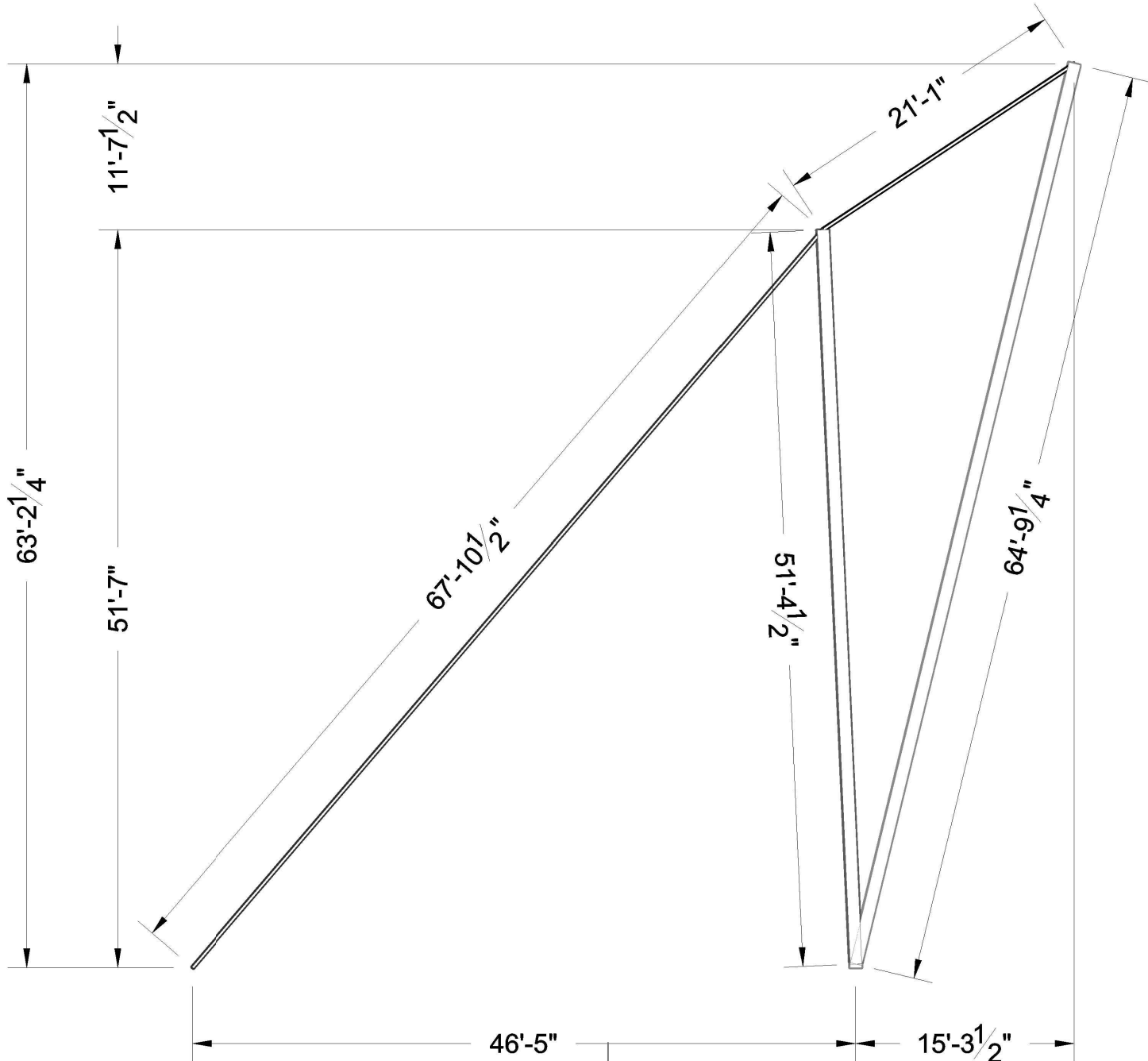
PROJECT:

**Pompano Beach
Amphitheater**

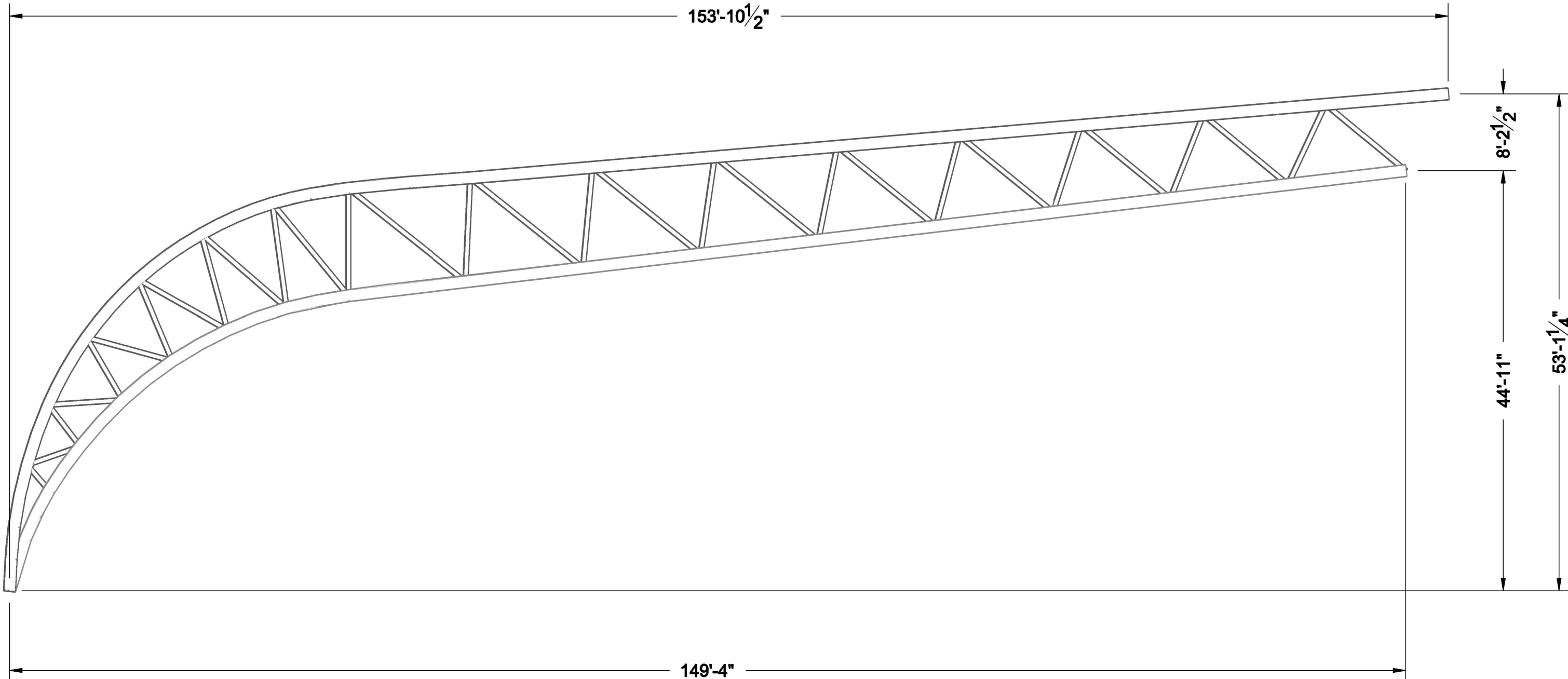
DRAWN BY: CCP	FILE NO: 2018-147
DATE: 27/11/2018	
SCALE: AS SHOWN	
DESCRIPTION: Front & Lateral Elevations	
ENGINEER APPROVAL:	SHEET 001
RELEASE DATE:	



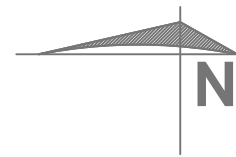
01
002 **Frame Structure**
SCALE: $\frac{3}{32}" = 1' 0"$



02
002 **Typical Column**
SCALE: $\frac{3}{32}" = 1' 0"$



03
002 **Typical Truss**
SCALE: $\frac{1}{8}" = 1' 0"$



STEEL SPECIFICATIONS:

STRUCTURAL SHAPE	ASTM SPECIFICATION	YIELD STRESS FY (KSI)	TENSILE STRESS FU (KSI)
PLATES A50	ASTM A572-50	50	65
PLATES A36	ASTM A-36	36	58
CIRCULAR HSS	ASTM A500-B	42	58
RECT. HSS	ASTM A500-C	50	62
ANGLE L	ASTM A529-50	50	65
BOLTS	ASTM A325	--	120
WELD	E7018		

BASIC WELD SYMBOLS:

BACK	FILLET	PLUG OR SLOT	FOR OTHER BASIC AND SUPPLEMENTARY WELD SYMBOLS, SEE AWS A2.4			
						
GROOVE OR BUTT						
SQUARE	V	BEVEL	U	J	FLARE V	FLARE BEVEL
						
SUPPLEMENTARY WELD SYMBOLS						
BACKING	SPACER	WELD ALL AROUND	FIELD WELD	CONTOUR		
				FLUSH	CONVEX	
						

ABBREVIATIONS:

REVISIONS:

NO.	DATE	DESCRIPTION	BY	CHKD
00	27/11/18	REV-00	CCP	

APPROVAL AND STAMP:

WAYNE RENDELY PE
132 Columbia Street
Huntington Station, NY

PROJECT:

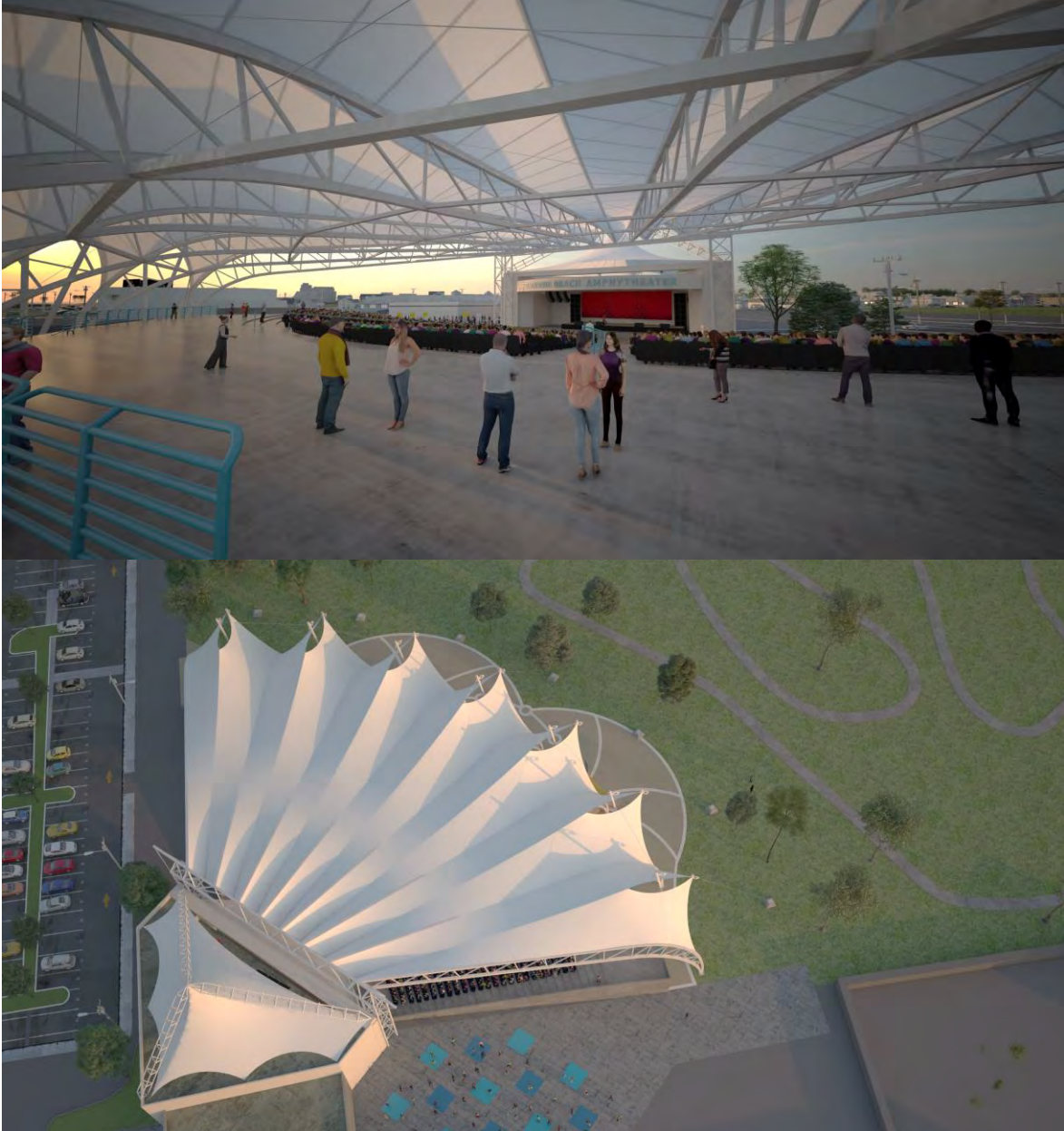
Pompano Beach
Amphitheater

DRAWN BY: CCP	FILE NO: 2018-147
DATE: 27/11/2018	
SCALE: AS SHOWN	
DESCRIPTION: Detail Views	
ENGINEER APPROVAL:	SHEET
RELEASE DATE:	002

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Architectural Drawings and Renderings

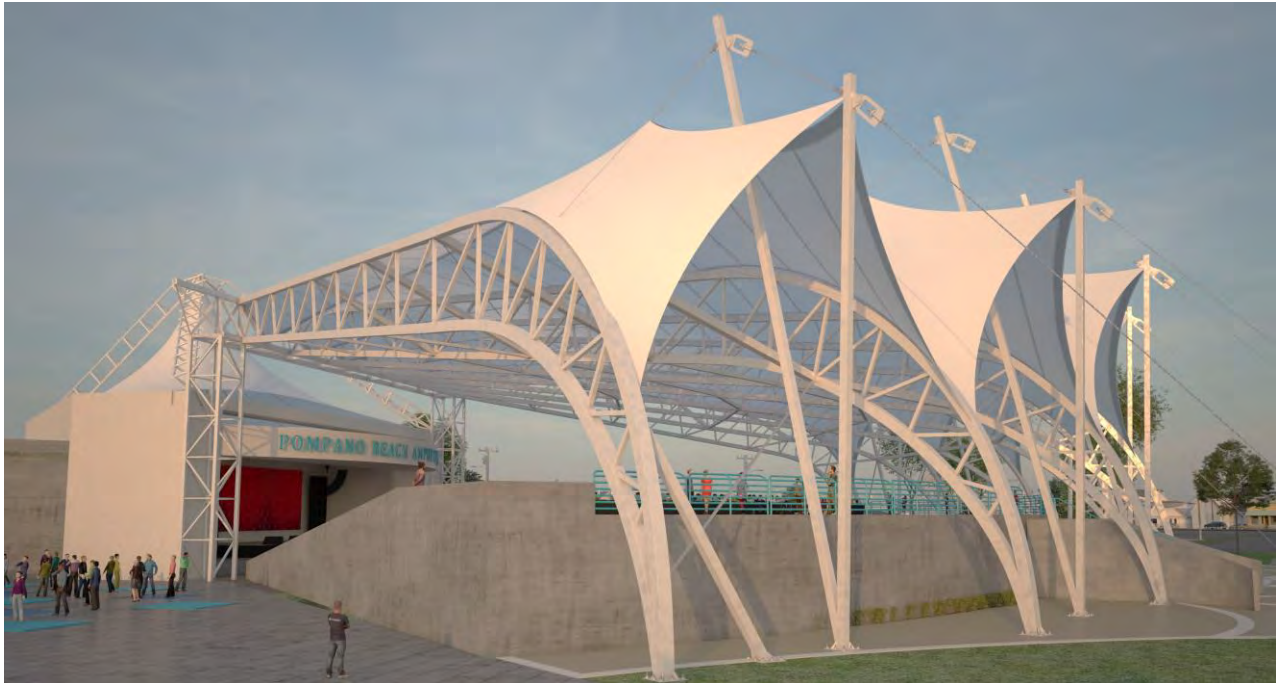


FLORIDA

1566 N Meadowcrest Blvd, Crystal River, FL 34429

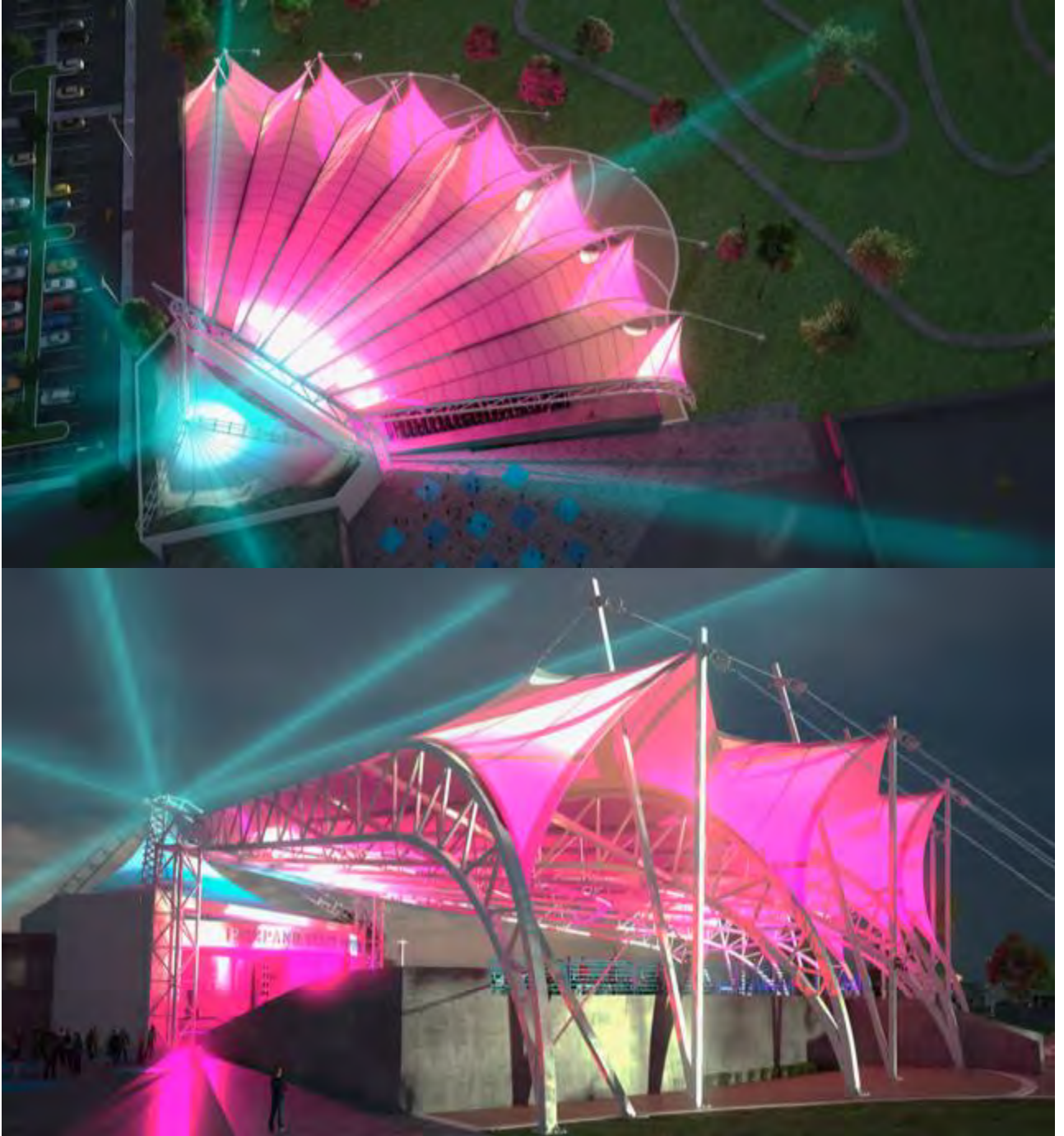
T +1.352.419.4890

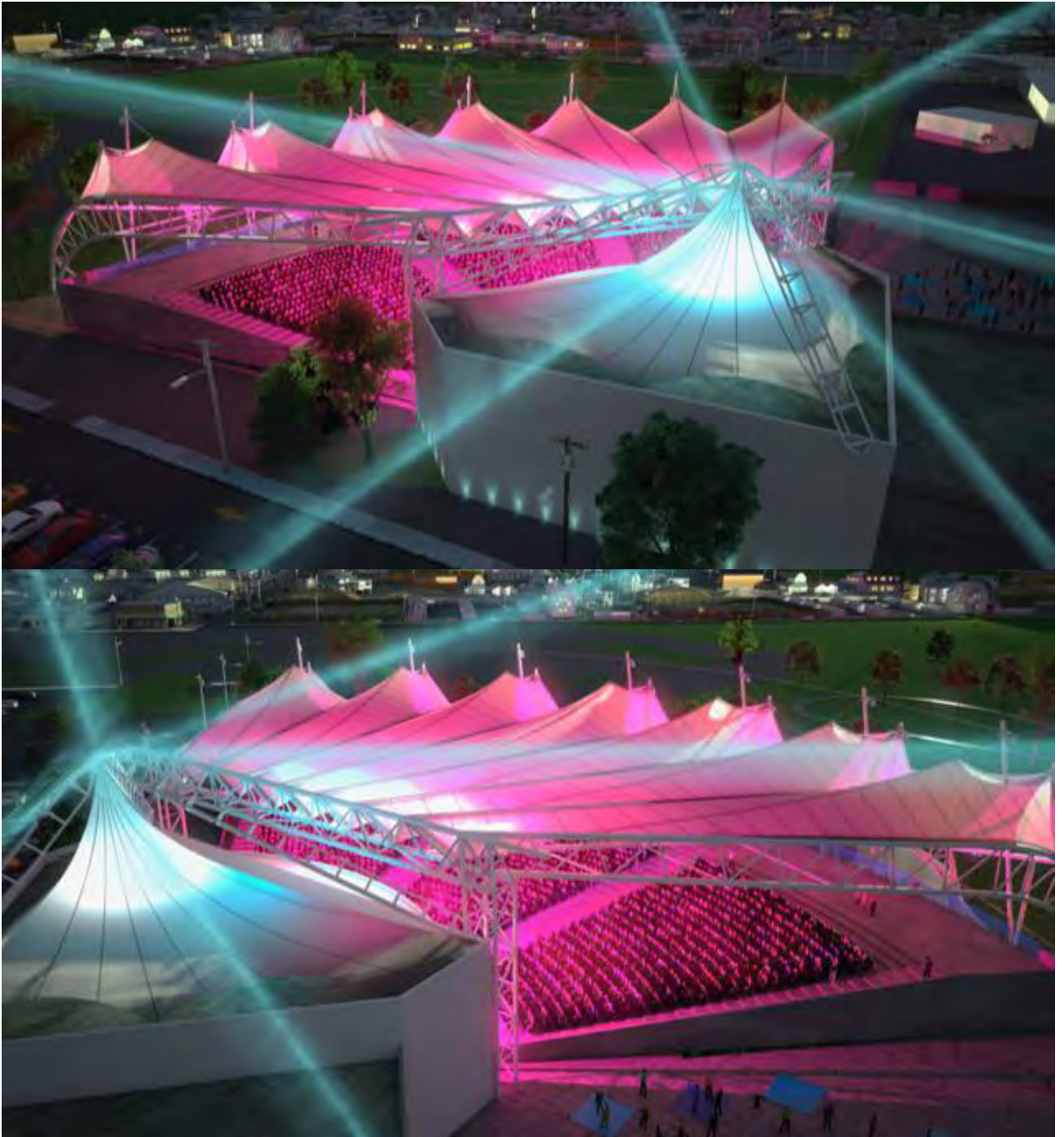
www.bigspans.com

















11. Professional Structural Engineering Calculations

A Pompano_Beach_Foundations

B Anchor_Numbers_Plan

C Anchor_Numbers_Perspective

D Anchor_Numbers_Perspective

FLORIDA

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Model: D:\Wayne\03 NDN_WRPE_PROJECTS_June_5_2018\BIG SPAN\Pompano Beach Amphitheatre\046_Pompano_Beach_WRPE.ndn

Title: Pompano Beach

Analysis Cases:

1. P Prestress and D.L.
2. L LL 12.00 Uniform
3. W Wind 40.00 Uniform
4. W Wind 40.00 Dir: 0,-1
5. W Wind 40.00 Dir: 1,-1
6. W Wind 40.00 Dir: 1,0
7. W Wind 40.00 Dir: 1,1
8. W Wind 40.00 Dir: 0,1
9. W Wind 40.00 Dir: -1,1
10. W Wind 40.00 Dir: -1,0
11. W Wind 40.00 Dir: -1,-1



Reaction Force Summation Units: kip

LC	X-Force	Y-Force	Z-Force
1	0.000	-0.005	-398.533
2	0.000	0.000	-784.877
3	-0.111	-43.257	755.372
4	-0.061	-116.932	409.140
5	164.651	-112.799	208.013
6	210.555	-50.354	34.466
7	126.760	135.862	231.808
8	0.110	201.192	426.526
9	-126.734	136.148	231.827
10	-210.728	-50.356	34.474

11 -164.799 -112.836 208.010

Notes:

1. The 'Reaction Forces' tabulated below represent the loads exerted by the analyzed model onto its supports.
2. The forces tabulated are Unfactored, Working Loads based on Analysis Cases.
3. The effects of prestress and dead load are included in all Analysis Cases.
4. Forces act in the directions defined by a right hand cartesian coordinate system. X and Y are in the horizontal plane, Z is upward. (Positive Z force means that the foundation or support is subjected to uplift.)
5. The coordinates tabulated are for analysis modeling only.
They do not represent final work point locations in the structure.



Reaction Force Tabulation (tabulated by node) Units: kip & ft

Node No	AC No	X-Force (kip)	Y-Force (kip)	Z-Force (kip)	Horizontal Resultant	Resultant Force(3D)	X-Moment (kip-ft)	Y-Moment (kip-ft)	Z-Moment (kip-ft)	XY-Result (kip-ft)
----	--	-----	-----	-----	-----	-----	-----	-----	-----	-----
1	1	12.458	-15.940	23.478	20.230	30.991	0.000	0.000	0.000	0.000
1	2	38.028	-48.650	71.578	61.749	94.532	0.000	0.000	0.000	0.000
1	3	23.394	-29.859	44.038	37.932	58.122	0.000	0.000	0.000	0.000
1	4	24.417	-31.678	46.430	39.996	61.282	0.000	0.000	0.000	0.000
1	5	22.841	-28.993	42.852	36.909	56.556	0.000	0.000	0.000	0.000
1	6	29.620	-36.973	54.964	47.374	72.563	0.000	0.000	0.000	0.000
1	7	30.339	-37.896	56.322	48.544	74.355	0.000	0.000	0.000	0.000
1	8	20.678	-26.496	39.028	33.609	51.505	0.000	0.000	0.000	0.000
1	9	20.587	-26.389	38.864	33.469	51.290	0.000	0.000	0.000	0.000
1	10	24.098	-31.007	45.594	39.270	60.174	0.000	0.000	0.000	0.000
1	11	30.629	-40.148	58.580	50.497	77.341	0.000	0.000	0.000	0.000
2	1	8.928	-18.852	24.210	20.859	31.957	0.000	0.000	0.000	0.000
2	2	27.287	-57.626	73.893	63.759	97.598	0.000	0.000	0.000	0.000
2	3	15.464	-32.604	41.897	36.086	55.295	0.000	0.000	0.000	0.000
2	4	14.528	-30.962	39.712	34.201	52.410	0.000	0.000	0.000	0.000

2	5	15.468	-32.116	41.388	35.647	54.623	0.000	0.000	0.000	0.000
2	6	23.015	-46.685	60.364	52.050	79.706	0.000	0.000	0.000	0.000
2	7	20.347	-41.411	53.540	46.140	70.678	0.000	0.000	0.000	0.000
2	8	12.870	-27.228	34.971	30.116	46.152	0.000	0.000	0.000	0.000
2	9	13.834	-29.333	37.660	32.432	49.700	0.000	0.000	0.000	0.000
2	10	19.648	-43.093	54.951	47.360	72.544	0.000	0.000	0.000	0.000
2	11	21.190	-46.408	59.174	51.016	78.130	0.000	0.000	0.000	0.000
3	1	4.626	-20.569	24.470	21.082	32.299	0.000	0.000	0.000	0.000
3	2	14.481	-64.113	76.158	65.728	100.600	0.000	0.000	0.000	0.000
3	3	7.462	-33.134	39.436	33.964	52.046	0.000	0.000	0.000	0.000
3	4	7.051	-31.571	37.563	32.349	49.573	0.000	0.000	0.000	0.000
3	5	7.634	-32.237	38.464	33.129	50.764	0.000	0.000	0.000	0.000
3	6	11.666	-48.350	57.695	49.738	76.174	0.000	0.000	0.000	0.000
3	7	8.239	-35.198	41.975	36.150	55.396	0.000	0.000	0.000	0.000
3	8	6.418	-28.554	33.984	29.266	44.849	0.000	0.000	0.000	0.000
3	9	6.763	-30.066	35.786	30.818	47.227	0.000	0.000	0.000	0.000
3	10	9.934	-47.405	56.192	48.434	74.185	0.000	0.000	0.000	0.000
3	11	9.825	-46.946	55.644	47.963	73.462	0.000	0.000	0.000	0.000
4	1	0.000	-21.222	24.632	21.222	32.513	0.000	0.000	0.000	0.000
4	2	0.001	-66.804	77.397	66.804	102.241	0.000	0.000	0.000	0.000
4	3	0.000	-33.001	38.319	33.001	50.571	0.000	0.000	0.000	0.000
4	4	0.000	-32.013	37.174	32.013	49.058	0.000	0.000	0.000	0.000
4	5	0.543	-39.637	46.013	39.641	60.733	0.000	0.000	0.000	0.000
4	6	0.713	-48.209	55.937	48.215	73.849	0.000	0.000	0.000	0.000
4	7	0.082	-33.237	38.597	33.237	50.935	0.000	0.000	0.000	0.000
4	8	0.000	-28.766	33.402	28.766	44.081	0.000	0.000	0.000	0.000
4	9	-0.082	-33.233	38.593	33.234	50.930	0.000	0.000	0.000	0.000
4	10	-0.712	-48.212	55.941	48.218	73.853	0.000	0.000	0.000	0.000
4	11	-0.543	-39.645	46.022	39.648	60.745	0.000	0.000	0.000	0.000
5	1	-4.626	-20.566	24.467	21.080	32.295	0.000	0.000	0.000	0.000
5	2	-14.481	-64.111	76.156	65.726	100.596	0.000	0.000	0.000	0.000
5	3	-7.462	-33.135	39.437	33.965	52.047	0.000	0.000	0.000	0.000
5	4	-7.051	-31.571	37.563	32.349	49.573	0.000	0.000	0.000	0.000
5	5	-9.824	-46.945	55.643	47.962	73.461	0.000	0.000	0.000	0.000
5	6	-9.933	-47.404	56.190	48.433	74.183	0.000	0.000	0.000	0.000
5	7	-6.763	-30.065	35.784	30.816	47.225	0.000	0.000	0.000	0.000
5	8	-6.417	-28.549	33.978	29.262	44.841	0.000	0.000	0.000	0.000
5	9	-8.239	-35.195	41.971	36.146	55.390	0.000	0.000	0.000	0.000
5	10	-11.666	-48.350	57.695	49.738	76.175	0.000	0.000	0.000	0.000
5	11	-7.635	-32.239	38.466	33.131	50.767	0.000	0.000	0.000	0.000
6	1	-8.925	-18.847	24.203	20.853	31.947	0.000	0.000	0.000	0.000

6	2	-27.285	-57.622	73.888	63.756	97.592	0.000	0.000	0.000	0.000
6	3	-15.464	-32.606	41.899	36.087	55.297	0.000	0.000	0.000	0.000
6	4	-14.529	-30.962	39.713	34.201	52.411	0.000	0.000	0.000	0.000
6	5	-21.189	-46.408	59.174	51.016	78.130	0.000	0.000	0.000	0.000
6	6	-19.647	-43.091	54.949	47.359	72.542	0.000	0.000	0.000	0.000
6	7	-13.832	-29.329	37.655	32.427	49.693	0.000	0.000	0.000	0.000
6	8	-12.865	-27.218	34.958	30.105	46.135	0.000	0.000	0.000	0.000
6	9	-20.343	-41.404	53.530	46.132	70.666	0.000	0.000	0.000	0.000
6	10	-23.016	-46.685	60.364	52.050	79.706	0.000	0.000	0.000	0.000
6	11	-15.468	-32.117	41.390	35.648	54.625	0.000	0.000	0.000	0.000
7	1	-12.452	-15.932	23.467	20.221	30.977	0.000	0.000	0.000	0.000
7	2	-38.023	-48.643	71.568	61.740	94.519	0.000	0.000	0.000	0.000
7	3	-23.395	-29.860	44.039	37.933	58.123	0.000	0.000	0.000	0.000
7	4	-24.416	-31.678	46.430	39.996	61.281	0.000	0.000	0.000	0.000
7	5	-30.629	-40.147	58.579	50.496	77.339	0.000	0.000	0.000	0.000
7	6	-24.096	-31.004	45.590	39.267	60.169	0.000	0.000	0.000	0.000
7	7	-20.581	-26.381	38.853	33.459	51.275	0.000	0.000	0.000	0.000
7	8	-20.665	-26.479	39.004	33.589	51.473	0.000	0.000	0.000	0.000
7	9	-30.329	-37.883	56.304	48.528	74.331	0.000	0.000	0.000	0.000
7	10	-29.619	-36.972	54.963	47.373	72.561	0.000	0.000	0.000	0.000
7	11	-22.840	-28.992	42.851	36.908	56.555	0.000	0.000	0.000	0.000
8	1	0.841	1.059	-2.535	1.353	2.873	-1.800	-1.131	-1.448	2.126
8	2	0.120	1.205	-1.601	1.211	2.007	-8.408	-3.962	-5.288	9.295
8	3	14.884	16.296	-34.106	22.070	40.624	-26.439	-11.523	-13.231	28.841
8	4	9.355	10.385	-21.652	13.977	25.771	-17.544	-7.461	-8.849	19.065
8	5	24.814	26.002	-57.199	35.942	67.554	-23.059	-18.462	-9.468	29.539
8	6	22.508	24.247	-53.341	33.084	62.768	-20.216	-21.642	-7.240	29.615
8	7	16.065	18.841	-38.955	24.760	46.158	-30.305	-20.274	-13.781	36.461
8	8	14.930	17.129	-34.731	22.722	41.503	-33.488	-14.208	-17.463	36.377
8	9	5.754	6.793	-12.782	8.902	15.577	-21.760	-3.428	-13.302	22.028
8	10	-5.325	-5.388	13.068	7.575	15.105	-7.228	7.363	-7.122	10.318
8	11	-5.377	-5.295	12.651	7.547	14.731	-5.468	5.615	-5.182	7.838
9	1	-0.841	1.059	-2.533	1.352	2.872	-1.810	1.135	1.453	2.136
9	2	-0.119	1.206	-1.600	1.212	2.007	-8.432	3.970	5.301	9.320
9	3	-14.884	16.296	-34.106	22.070	40.623	-26.441	11.522	13.232	28.843
9	4	-9.354	10.384	-21.651	13.976	25.770	-17.548	7.461	8.851	19.069
9	5	5.378	-5.296	12.653	7.548	14.733	-5.471	-5.615	5.184	7.840
9	6	5.325	-5.388	13.069	7.576	15.106	-7.233	-7.362	7.124	10.321
9	7	-5.749	6.791	-12.773	8.898	15.566	-21.790	3.436	13.319	22.059
9	8	-14.923	17.130	-34.721	22.718	41.493	-33.574	14.238	17.514	36.468
9	9	-16.059	18.842	-38.947	24.758	46.150	-30.372	20.296	13.821	36.529
9	10	-22.508	24.246	-53.340	33.083	62.766	-20.213	21.639	7.237	29.611

9	11	-24.813	26.000	-57.197	35.940	67.551	-23.057	18.460	9.467	29.537
10	1	-7.598	7.510	-12.884	10.683	16.737	-1.878	-1.899	-0.189	2.671
10	2	-14.836	17.371	-21.457	22.844	31.341	-4.343	-3.709	2.626	5.711
10	3	38.857	8.708	98.148	39.821	105.918	-2.177	9.715	25.208	9.956
10	4	24.837	7.318	58.886	25.893	64.327	-1.830	6.210	16.754	6.474
10	5	101.582	4.275	143.614	101.672	175.960	-1.068	25.400	75.242	25.423
10	6	123.278	5.666	136.899	123.408	184.312	-1.415	30.825	97.575	30.857
10	7	81.841	21.769	99.420	84.686	130.599	-5.442	20.463	74.999	21.174
10	8	23.929	22.695	78.099	32.980	84.777	-5.674	5.983	27.774	8.246
10	9	-13.078	15.262	38.021	20.098	43.006	-3.816	-3.270	-28.234	5.025
10	10	-9.729	16.299	0.140	18.981	18.982	-4.075	-2.432	-70.944	4.745
10	11	-7.284	12.311	-4.889	14.305	15.117	-3.078	-1.821	-50.337	3.576
11	1	-9.516	15.439	-19.443	18.136	26.588	-3.860	-2.379	0.259	4.534
11	2	-26.512	43.185	-47.920	50.674	69.744	-10.795	-6.627	0.909	12.667
11	3	-7.457	13.111	74.740	15.083	76.247	-3.278	-1.864	13.548	3.771
11	4	-5.650	13.759	36.846	14.874	39.735	-3.440	-1.412	14.459	3.719
11	5	-13.710	24.134	22.547	27.756	35.760	-6.034	-3.428	16.097	6.939
11	6	-28.898	43.921	-31.495	52.575	61.287	-10.980	-7.224	24.708	13.143
11	7	-40.467	63.752	-40.139	75.510	85.516	-15.937	-10.115	25.344	18.876
11	8	-23.245	39.007	30.107	45.408	54.482	-9.752	-5.811	11.236	11.353
11	9	-8.535	13.467	66.452	15.944	68.338	-3.367	-2.134	-4.964	3.987
11	10	-10.609	13.186	34.868	16.924	38.758	-3.297	-2.652	-4.204	4.231
11	11	-8.148	15.357	16.838	17.385	24.203	-3.839	-2.037	0.038	4.346
12	1	-5.866	17.096	-16.945	18.074	24.775	-4.274	-1.466	-0.094	4.518
12	2	-16.524	48.203	-43.147	50.956	66.770	-12.049	-4.131	0.315	12.738
12	3	0.099	1.055	107.815	1.059	107.820	-0.264	0.025	7.891	0.265
12	4	1.056	-0.837	75.611	1.348	75.623	0.209	0.264	13.000	0.337
12	5	2.057	-4.636	71.569	5.072	71.749	1.159	0.514	6.790	1.268
12	6	-5.680	15.256	29.346	16.279	33.559	-3.814	-1.420	12.302	4.070
12	7	-11.265	36.721	30.715	38.410	49.181	-9.181	-2.816	13.211	9.603
12	8	-7.570	23.164	72.267	24.370	76.266	-5.792	-1.893	8.493	6.094
12	9	-5.758	15.609	73.100	16.637	74.969	-3.903	-1.440	-6.892	4.160
12	10	-6.173	16.809	34.423	17.907	38.802	-4.203	-1.543	-11.074	4.477
12	11	-3.106	12.433	34.436	12.815	36.743	-3.109	-0.777	0.676	3.204
13	1	-1.925	17.514	-16.846	17.620	24.377	-4.378	-0.481	-0.293	4.405
13	2	-5.386	48.755	-41.658	49.051	64.354	-12.187	-1.346	-0.075	12.262
13	3	-0.441	5.300	108.247	5.319	108.377	-1.325	-0.110	2.577	1.330
13	4	0.014	0.159	81.448	0.159	81.448	-0.040	0.004	6.313	0.040
13	5	-0.580	0.934	58.297	1.100	58.307	-0.233	-0.145	3.710	0.275
13	6	-2.699	18.416	27.318	18.613	33.056	-4.604	-0.675	14.046	4.654
13	7	-2.350	34.137	46.312	34.218	57.581	-8.535	-0.587	9.660	8.555

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13	8	-2.815	26.256	76.500	26.407	80.929	-6.565	-0.704	3.110	6.603
13	9	-3.608	25.756	62.853	26.008	68.021	-6.440	-0.902	-10.768	6.503
13	10	-1.720	20.087	29.237	20.161	35.514	-5.022	-0.430	-15.916	5.041
13	11	-0.026	9.228	44.199	9.228	45.152	-2.307	-0.007	-3.915	2.307
14	1	1.925	17.515	-16.843	17.621	24.376	-4.379	0.481	0.298	4.405
14	2	5.386	48.761	-41.658	49.057	64.358	-12.189	1.346	0.078	12.263
14	3	0.442	5.300	108.245	5.319	108.375	-1.325	0.111	-2.580	1.330
14	4	-0.014	0.158	81.448	0.159	81.449	-0.040	-0.003	-6.313	0.040
14	5	0.026	9.224	44.202	9.224	45.154	-2.306	0.007	3.916	2.306
14	6	1.721	20.088	29.236	20.162	35.514	-5.022	0.430	15.913	5.041
14	7	3.609	25.755	62.847	26.007	68.016	-6.440	0.903	10.768	6.503
14	8	2.817	26.277	76.492	26.427	80.929	-6.570	0.704	-3.100	6.608
14	9	2.353	34.163	46.304	34.244	57.591	-8.542	0.588	-9.655	8.562
14	10	2.697	18.411	27.330	18.608	33.063	-4.603	0.674	-14.029	4.652
14	11	0.580	0.934	58.301	1.100	58.312	-0.234	0.145	-3.702	0.275
15	1	5.868	17.104	-16.948	18.083	24.783	-4.276	1.467	0.096	4.520
15	2	16.531	48.223	-43.152	50.978	66.790	-12.055	4.132	-0.313	12.743
15	3	-0.100	1.052	107.818	1.057	107.823	-0.263	-0.025	-7.888	0.264
15	4	-1.057	-0.838	75.614	1.349	75.626	0.210	-0.264	-12.999	0.337
15	5	3.105	12.429	34.438	12.811	36.744	-3.108	0.776	-0.675	3.203
15	6	6.173	16.810	34.423	17.908	38.803	-4.203	1.544	11.076	4.477
15	7	5.763	15.625	73.095	16.654	74.968	-3.907	1.441	6.900	4.164
15	8	7.590	23.222	72.250	24.431	76.268	-5.807	1.898	-8.482	6.109
15	9	11.283	36.774	30.701	38.466	49.216	-9.194	2.821	-13.200	9.617
15	10	5.679	15.253	29.352	16.276	33.562	-3.813	1.420	-12.300	4.069
15	11	-2.057	-4.637	71.573	5.073	71.753	1.159	-0.514	-6.786	1.268
16	1	9.520	15.445	-19.443	18.143	26.594	-3.861	2.380	-0.257	4.536
16	2	26.526	43.207	-47.920	50.699	69.762	-10.801	6.631	-0.908	12.674
16	3	7.448	13.097	74.764	15.066	76.267	-3.275	1.862	-13.541	3.767
16	4	5.644	13.750	36.862	14.864	39.746	-3.438	1.411	-14.455	3.716
16	5	8.144	15.350	16.845	17.376	24.201	-3.838	2.036	-0.034	4.344
16	6	10.605	13.180	34.879	16.917	38.765	-3.295	2.651	4.208	4.229
16	7	8.545	13.485	66.460	15.965	68.350	-3.372	2.137	4.975	3.992
16	8	23.291	39.082	30.093	45.496	54.548	-9.771	5.823	-11.224	11.375
16	9	40.503	63.811	-40.143	75.580	85.579	-15.952	10.125	-25.329	18.894
16	10	28.889	43.906	-31.471	52.558	61.259	-10.976	7.221	-24.703	13.139
16	11	13.701	24.120	22.572	27.739	35.763	-6.030	3.425	-16.091	6.935
17	1	7.592	7.508	-12.866	10.678	16.720	-1.877	1.898	0.190	2.669
17	2	14.830	17.369	-21.406	22.839	31.302	-4.342	3.707	-2.621	5.710
17	3	-38.859	8.692	98.197	39.819	105.963	-2.173	-9.716	-25.194	9.956
17	4	-24.832	7.313	58.911	25.887	64.348	-1.828	-6.209	-16.743	6.472

17	5	7.280	12.307	-4.871	14.299	15.106	-3.077	1.820	50.349	3.575
17	6	9.714	16.284	0.184	18.961	18.962	-4.071	2.429	70.952	4.740
17	7	13.082	15.268	38.079	20.106	43.061	-3.817	3.271	28.262	5.027
17	8	-23.852	22.770	78.135	32.975	84.808	-5.693	-5.964	-27.740	8.245
17	9	-81.779	21.823	99.463	84.641	130.602	-5.455	-20.448	-74.965	21.163
17	10	-123.286	5.644	136.941	123.415	184.348	-1.410	-30.827	-97.564	30.859
17	11	-101.587	4.254	143.659	101.676	176.000	-1.063	-25.401	-75.229	25.424
18	1	-2.081	2.655	-37.148	3.373	37.301	-0.664	-0.520	0.052	0.843
18	2	-7.804	9.975	-104.493	12.665	105.258	-2.493	-1.950	0.001	3.165
18	3	0.433	-0.700	-87.597	0.823	87.601	0.175	0.108	-0.049	0.206
18	4	-0.175	0.900	-85.499	0.917	85.504	-0.225	-0.044	1.043	0.229
18	5	-0.442	0.001	-86.438	0.442	86.439	0.000	-0.111	0.584	0.111
18	6	-3.097	2.299	-101.825	3.858	101.898	-0.575	-0.774	-0.415	0.964
18	7	-4.595	4.429	-95.986	6.382	96.198	-1.107	-1.148	-0.496	1.595
18	8	-0.618	0.839	-74.802	1.042	74.810	-0.210	-0.155	0.208	0.261
18	9	0.158	-0.084	-75.752	0.179	75.752	0.021	0.040	-0.192	0.045
18	10	-1.614	2.452	-80.105	2.936	80.158	-0.613	-0.403	-0.359	0.734
18	11	-3.041	5.413	-96.121	6.209	96.321	-1.353	-0.760	0.302	1.552
19	1	-1.372	2.890	-36.993	3.199	37.131	-0.722	-0.343	0.029	0.800
19	2	-5.533	11.707	-107.296	12.948	108.074	-2.926	-1.383	-0.015	3.236
19	3	0.539	-1.248	-83.062	1.359	83.073	0.312	0.135	0.036	0.340
19	4	0.448	-0.469	-75.579	0.648	75.582	0.117	0.112	0.573	0.162
19	5	-0.272	-0.538	-78.836	0.603	78.838	0.135	-0.068	0.236	0.151
19	6	-3.632	4.697	-102.566	5.938	102.738	-1.174	-0.908	-0.798	1.484
19	7	-3.403	4.887	-89.491	5.955	89.688	-1.221	-0.850	-0.837	1.488
19	8	0.413	-0.790	-68.993	0.891	68.999	0.197	0.103	0.201	0.223
19	9	0.357	-0.504	-73.440	0.618	73.443	0.126	0.089	-0.087	0.154
19	10	-1.675	6.152	-91.859	6.376	92.080	-1.538	-0.419	0.306	1.594
19	11	-1.468	5.708	-99.358	5.893	99.532	-1.426	-0.367	0.570	1.473
20	1	-0.709	3.140	-37.314	3.219	37.452	-0.785	-0.177	-0.007	0.805
20	2	-3.017	12.942	-109.883	13.289	110.684	-3.234	-0.754	0.013	3.321
20	3	0.287	-1.411	-79.578	1.440	79.591	0.353	0.072	0.068	0.360
20	4	0.225	-0.639	-74.196	0.678	74.199	0.160	0.056	0.225	0.169
20	5	-0.579	-0.772	-75.464	0.965	75.470	0.193	-0.145	-0.526	0.241
20	6	-2.436	5.300	-96.643	5.833	96.819	-1.325	-0.609	-0.654	1.458
20	7	-1.388	3.424	-75.291	3.695	75.381	-0.856	-0.347	0.114	0.923
20	8	0.211	-0.936	-68.520	0.959	68.527	0.234	0.053	0.043	0.240
20	9	0.058	-0.183	-69.739	0.193	69.740	0.046	0.015	-0.420	0.048
20	10	-0.212	6.194	-93.518	6.197	93.723	-1.548	-0.053	0.296	1.549
20	11	0.090	4.757	-96.806	4.758	96.922	-1.189	0.022	0.831	1.189
21	1	0.000	3.256	-37.670	3.256	37.811	-0.814	0.000	-0.001	0.814

21	2	-0.003	13.669	-111.662	13.669	112.496	-3.416	-0.001	0.002	3.416
21	3	0.000	-1.303	-78.119	1.303	78.130	0.326	0.000	0.005	0.326
21	4	0.000	-0.422	-73.959	0.422	73.960	0.105	0.000	0.001	0.105
21	5	-0.951	1.254	-84.624	1.574	84.639	-0.313	-0.238	-0.808	0.393
21	6	-1.145	5.823	-93.358	5.934	93.547	-1.455	-0.286	-0.419	1.483
21	7	-0.195	1.557	-72.303	1.569	72.320	-0.389	-0.049	0.399	0.392
21	8	0.000	-0.814	-68.008	0.814	68.013	0.203	0.000	0.000	0.203
21	9	0.193	1.556	-72.298	1.567	72.315	-0.389	0.048	-0.388	0.392
21	10	1.144	5.823	-93.366	5.934	93.554	-1.455	0.286	0.420	1.483
21	11	0.951	1.257	-84.638	1.576	84.653	-0.314	0.238	0.808	0.394
22	1	0.709	3.139	-37.310	3.218	37.448	-0.785	0.177	0.007	0.804
22	2	3.017	12.942	-109.880	13.289	110.680	-3.234	0.754	-0.013	3.321
22	3	-0.287	-1.411	-79.579	1.439	79.592	0.353	-0.072	-0.068	0.360
22	4	-0.225	-0.639	-74.197	0.678	74.200	0.160	-0.056	-0.224	0.169
22	5	-0.090	4.757	-96.805	4.758	96.921	-1.189	-0.023	-0.830	1.189
22	6	0.211	6.194	-93.516	6.197	93.722	-1.548	0.053	-0.295	1.549
22	7	-0.058	-0.184	-69.736	0.193	69.737	0.046	-0.015	0.419	0.048
22	8	-0.211	-0.936	-68.512	0.960	68.519	0.234	-0.053	-0.042	0.240
22	9	1.388	3.424	-75.284	3.694	75.375	-0.856	0.347	-0.114	0.923
22	10	2.436	5.300	-96.645	5.833	96.820	-1.325	0.609	0.655	1.458
22	11	0.579	-0.772	-75.467	0.964	75.473	0.193	0.145	0.526	0.241
23	1	1.371	2.889	-36.983	3.198	37.121	-0.722	0.343	-0.029	0.799
23	2	5.533	11.706	-107.290	12.948	108.069	-2.926	1.383	0.015	3.236
23	3	-0.539	-1.247	-83.064	1.359	83.075	0.312	-0.135	-0.036	0.340
23	4	-0.448	-0.469	-75.580	0.648	75.583	0.117	-0.112	-0.571	0.162
23	5	1.468	5.708	-99.358	5.893	99.532	-1.426	0.367	-0.569	1.473
23	6	1.675	6.152	-91.857	6.376	92.078	-1.537	0.419	-0.306	1.593
23	7	-0.358	-0.505	-73.432	0.619	73.435	0.126	-0.089	0.087	0.155
23	8	-0.413	-0.791	-68.973	0.893	68.978	0.198	-0.103	-0.199	0.223
23	9	3.403	4.886	-89.476	5.954	89.674	-1.221	0.850	0.837	1.488
23	10	3.632	4.698	-102.567	5.938	102.739	-1.174	0.908	0.798	1.484
23	11	0.272	-0.538	-78.838	0.603	78.840	0.134	0.068	-0.236	0.151
24	1	2.079	2.653	-37.129	3.371	37.282	-0.663	0.520	-0.052	0.843
24	2	7.803	9.974	-104.481	12.664	105.246	-2.493	1.950	-0.001	3.165
24	3	-0.433	-0.700	-87.598	0.823	87.602	0.175	-0.108	0.049	0.206
24	4	0.175	0.900	-85.498	0.916	85.503	-0.225	0.044	-1.041	0.229
24	5	3.041	5.413	-96.119	6.209	96.320	-1.353	0.760	-0.302	1.552
24	6	1.614	2.452	-80.099	2.935	80.153	-0.613	0.403	0.359	0.734
24	7	-0.159	-0.085	-75.735	0.180	75.735	0.021	-0.040	0.192	0.045
24	8	0.616	0.837	-74.766	1.039	74.773	-0.209	0.154	-0.207	0.260
24	9	4.594	4.427	-95.957	6.379	96.169	-1.106	1.148	0.496	1.594
24	10	3.096	2.298	-101.817	3.856	101.890	-0.574	0.774	0.416	0.964

24	11	0.442	0.000	-86.432	0.442	86.434	0.000	0.110	-0.584	0.110
25	1	0.212	0.033	-21.138	0.215	21.139	0.000	0.000	0.000	0.000
25	2	0.878	-0.111	-42.321	0.885	42.330	0.000	0.000	0.000	0.000
25	3	-0.207	-0.203	-7.654	0.290	7.659	0.000	0.000	0.000	0.000
25	4	-0.034	-0.014	-2.014	0.037	2.014	0.000	0.000	0.000	0.000
25	5	-0.388	-0.332	-12.831	0.511	12.841	0.000	0.000	0.000	0.000
25	6	-0.258	-0.193	-7.503	0.322	7.510	0.000	0.000	0.000	0.000
25	7	-1.250	-1.981	-36.668	2.342	36.743	0.000	0.000	0.000	0.000
25	8	-0.916	-2.186	-45.812	2.370	45.874	0.000	0.000	0.000	0.000
25	9	0.316	-0.561	-37.795	0.644	37.800	0.000	0.000	0.000	0.000
25	10	0.389	-0.054	-24.284	0.393	24.287	0.000	0.000	0.000	0.000
25	11	0.001	0.011	-2.587	0.012	2.587	0.000	0.000	0.000	0.000
26	1	0.225	0.048	-22.010	0.230	22.011	0.000	0.000	0.000	0.000
26	2	0.980	-0.115	-46.370	0.986	46.380	0.000	0.000	0.000	0.000
26	3	-0.549	-0.892	-19.692	1.048	19.720	0.000	0.000	0.000	0.000
26	4	-0.187	-0.228	-9.845	0.295	9.849	0.000	0.000	0.000	0.000
26	5	-1.470	-1.799	-47.275	2.323	47.332	0.000	0.000	0.000	0.000
26	6	-2.696	-2.798	-75.078	3.886	75.178	0.000	0.000	0.000	0.000
26	7	-3.967	-7.485	-113.842	8.471	114.157	0.000	0.000	0.000	0.000
26	8	-1.186	-3.534	-58.099	3.728	58.219	0.000	0.000	0.000	0.000
26	9	-0.166	0.588	19.179	0.611	19.189	0.000	0.000	0.000	0.000
26	10	-0.540	0.468	32.555	0.715	32.563	0.000	0.000	0.000	0.000
26	11	-0.009	0.149	19.237	0.150	19.237	0.000	0.000	0.000	0.000
27	1	-0.223	0.049	-21.938	0.229	21.939	0.000	0.000	0.000	0.000
27	2	-0.978	-0.113	-46.393	0.984	46.403	0.000	0.000	0.000	0.000
27	3	0.547	-0.889	-19.654	1.044	19.681	0.000	0.000	0.000	0.000
27	4	0.185	-0.226	-9.743	0.292	9.748	0.000	0.000	0.000	0.000
27	5	0.009	0.151	19.435	0.152	19.435	0.000	0.000	0.000	0.000
27	6	0.543	0.468	32.739	0.717	32.747	0.000	0.000	0.000	0.000
27	7	0.167	0.590	19.284	0.613	19.294	0.000	0.000	0.000	0.000
27	8	1.191	-3.544	-58.344	3.739	58.464	0.000	0.000	0.000	0.000
27	9	3.982	-7.498	-114.267	8.490	114.582	0.000	0.000	0.000	0.000
27	10	2.699	-2.797	-75.202	3.887	75.302	0.000	0.000	0.000	0.000
27	11	1.471	-1.797	-47.331	2.322	47.388	0.000	0.000	0.000	0.000
28	1	-0.218	0.034	-21.139	0.220	21.140	0.000	0.000	0.000	0.000
28	2	-0.906	-0.115	-42.506	0.913	42.516	0.000	0.000	0.000	0.000
28	3	0.220	-0.216	-7.931	0.309	7.937	0.000	0.000	0.000	0.000
28	4	0.039	-0.015	-2.172	0.041	2.172	0.000	0.000	0.000	0.000
28	5	-0.001	0.012	-2.627	0.012	2.627	0.000	0.000	0.000	0.000
28	6	-0.403	-0.054	-24.419	0.407	24.422	0.000	0.000	0.000	0.000
28	7	-0.330	-0.582	-38.260	0.669	38.266	0.000	0.000	0.000	0.000

28	8	0.959	-2.285	-46.578	2.478	46.644	0.000	0.000	0.000	0.000
28	9	1.309	-2.069	-37.294	2.448	37.374	0.000	0.000	0.000	0.000
28	10	0.272	-0.203	-7.675	0.339	7.682	0.000	0.000	0.000	0.000
28	11	0.407	-0.347	-13.065	0.535	13.076	0.000	0.000	0.000	0.000
29	1	0.204	0.031	-19.273	0.206	19.274	0.000	0.000	0.000	0.000
29	2	0.278	-0.034	-13.503	0.280	13.505	0.000	0.000	0.000	0.000
29	3	4.015	2.438	88.131	4.698	88.256	0.000	0.000	0.000	0.000
29	4	1.797	0.399	51.313	1.841	51.346	0.000	0.000	0.000	0.000
29	5	3.351	2.121	79.647	3.966	79.745	0.000	0.000	0.000	0.000
29	6	4.159	2.431	90.829	4.817	90.957	0.000	0.000	0.000	0.000
29	7	6.094	7.456	136.250	9.629	136.589	0.000	0.000	0.000	0.000
29	8	3.177	4.753	98.414	5.717	98.580	0.000	0.000	0.000	0.000
29	9	0.071	0.163	10.632	0.178	10.634	0.000	0.000	0.000	0.000
29	10	0.084	-0.043	-19.696	0.094	19.696	0.000	0.000	0.000	0.000
29	11	0.028	-0.011	2.111	0.030	2.112	0.000	0.000	0.000	0.000
30	1	0.243	0.048	-22.571	0.248	22.572	0.000	0.000	0.000	0.000
30	2	0.367	-0.045	-17.468	0.370	17.472	0.000	0.000	0.000	0.000
30	3	4.888	4.902	106.683	6.923	106.907	0.000	0.000	0.000	0.000
30	4	2.247	1.517	63.772	2.711	63.830	0.000	0.000	0.000	0.000
30	5	2.867	2.594	67.629	3.867	67.739	0.000	0.000	0.000	0.000
30	6	1.962	1.593	42.374	2.527	42.449	0.000	0.000	0.000	0.000
30	7	4.002	5.872	88.793	7.106	89.077	0.000	0.000	0.000	0.000
30	8	3.824	7.233	118.065	8.182	118.348	0.000	0.000	0.000	0.000
30	9	0.579	2.723	89.302	2.784	89.346	0.000	0.000	0.000	0.000
30	10	-0.218	0.701	48.655	0.734	48.660	0.000	0.000	0.000	0.000
30	11	0.426	0.272	35.219	0.506	35.223	0.000	0.000	0.000	0.000
31	1	-0.241	0.049	-22.340	0.246	22.342	0.000	0.000	0.000	0.000
31	2	-0.360	-0.043	-17.123	0.363	17.126	0.000	0.000	0.000	0.000
31	3	-4.890	4.894	106.645	6.918	106.870	0.000	0.000	0.000	0.000
31	4	-2.250	1.519	63.805	2.715	63.862	0.000	0.000	0.000	0.000
31	5	-0.429	0.274	35.293	0.509	35.297	0.000	0.000	0.000	0.000
31	6	0.218	0.700	48.821	0.734	48.827	0.000	0.000	0.000	0.000
31	7	-0.579	2.724	89.600	2.785	89.643	0.000	0.000	0.000	0.000
31	8	-3.835	7.248	118.482	8.200	118.766	0.000	0.000	0.000	0.000
31	9	-4.015	5.878	89.078	7.119	89.362	0.000	0.000	0.000	0.000
31	10	-1.963	1.590	42.381	2.526	42.456	0.000	0.000	0.000	0.000
31	11	-2.870	2.590	67.672	3.866	67.782	0.000	0.000	0.000	0.000
32	1	-0.209	0.031	-19.175	0.212	19.176	0.000	0.000	0.000	0.000
32	2	-0.282	-0.034	-13.284	0.284	13.287	0.000	0.000	0.000	0.000
32	3	-4.162	2.510	88.684	4.860	88.817	0.000	0.000	0.000	0.000
32	4	-1.864	0.409	51.674	1.909	51.709	0.000	0.000	0.000	0.000

32	5	-0.031	-0.012	2.261	0.033	2.261	0.000	0.000	0.000	0.000
32	6	-0.085	-0.042	-19.541	0.095	19.541	0.000	0.000	0.000	0.000
32	7	-0.075	0.171	10.952	0.187	10.953	0.000	0.000	0.000	0.000
32	8	-3.296	4.926	99.238	5.927	99.415	0.000	0.000	0.000	0.000
32	9	-6.319	7.710	137.252	9.969	137.614	0.000	0.000	0.000	0.000
32	10	-4.308	2.506	91.378	4.983	91.514	0.000	0.000	0.000	0.000
32	11	-3.472	2.189	80.171	4.105	80.276	0.000	0.000	0.000	0.000
33	1	-6.361	-0.531	-0.001	6.383	6.383	0.000	0.000	0.000	0.000
33	2	-12.280	-1.018	0.004	12.322	12.322	0.000	0.000	0.000	0.000
33	3	14.281	-1.117	-0.019	14.325	14.325	0.000	0.000	0.000	0.000
33	4	10.348	-0.835	-0.014	10.382	10.382	0.000	0.000	0.000	0.000
33	5	16.317	-1.289	-0.020	16.368	16.368	0.000	0.000	0.000	0.000
33	6	19.042	-1.506	-0.023	19.101	19.101	0.000	0.000	0.000	0.000
33	7	17.160	-1.306	-0.024	17.209	17.209	0.000	0.000	0.000	0.000
33	8	9.272	-0.711	-0.015	9.299	9.299	0.000	0.000	0.000	0.000
33	9	-4.603	-0.376	-0.002	4.618	4.618	0.000	0.000	0.000	0.000
33	10	-9.630	-0.799	0.002	9.663	9.663	0.000	0.000	0.000	0.000
33	11	-0.976	-0.082	-0.005	0.979	0.979	0.000	0.000	0.000	0.000
34	1	6.344	-0.529	-0.010	6.366	6.366	0.000	0.000	0.000	0.000
34	2	12.258	-1.016	-0.015	12.300	12.300	0.000	0.000	0.000	0.000
34	3	-14.249	-1.115	0.003	14.293	14.293	0.000	0.000	0.000	0.000
34	4	-10.329	-0.833	0.002	10.362	10.362	0.000	0.000	0.000	0.000
34	5	0.993	-0.083	-0.006	0.996	0.996	0.000	0.000	0.000	0.000
34	6	9.636	-0.799	-0.013	9.669	9.669	0.000	0.000	0.000	0.000
34	7	4.609	-0.376	-0.009	4.625	4.625	0.000	0.000	0.000	0.000
34	8	-9.281	-0.712	0.000	9.308	9.308	0.000	0.000	0.000	0.000
34	9	-17.175	-1.307	0.003	17.225	17.225	0.000	0.000	0.000	0.000
34	10	-19.047	-1.506	0.006	19.106	19.106	0.000	0.000	0.000	0.000
34	11	-16.324	-1.290	0.005	16.374	16.374	0.000	0.000	0.000	0.000
35	1	0.075	-0.910	-0.005	0.913	0.913	0.000	0.000	0.000	0.000
35	2	0.083	1.026	-0.006	1.030	1.030	0.000	0.000	0.000	0.000
35	3	1.504	17.464	-0.007	17.529	17.529	0.000	0.000	0.000	0.000
35	4	0.494	5.789	-0.006	5.810	5.810	0.000	0.000	0.000	0.000
35	5	1.473	17.034	-0.007	17.097	17.097	0.000	0.000	0.000	0.000
35	6	1.508	17.338	-0.007	17.404	17.404	0.000	0.000	0.000	0.000
35	7	2.868	33.128	-0.013	33.252	33.252	0.000	0.000	0.000	0.000
35	8	2.452	28.814	-0.010	28.918	28.918	0.000	0.000	0.000	0.000
35	9	0.711	8.633	-0.006	8.662	8.662	0.000	0.000	0.000	0.000
35	10	0.082	1.006	-0.006	1.010	1.010	0.000	0.000	0.000	0.000
35	11	0.323	-3.818	-0.006	3.832	3.832	0.000	0.000	0.000	0.000
36	1	-0.188	-2.228	-0.006	2.236	2.236	0.000	0.000	0.000	0.000

36	2	-0.254	2.858	-0.006	2.869	2.869	0.000	0.000	0.000	0.000
36	3	-1.996	24.966	-0.009	25.046	25.046	0.000	0.000	0.000	0.000
36	4	-1.050	12.947	-0.006	12.989	12.989	0.000	0.000	0.000	0.000
36	5	-1.639	20.562	-0.008	20.627	20.627	0.000	0.000	0.000	0.000
36	6	-1.574	19.872	-0.008	19.934	19.934	0.000	0.000	0.000	0.000
36	7	-2.839	35.898	-0.016	36.010	36.010	0.000	0.000	0.000	0.000
36	8	-2.730	33.856	-0.013	33.966	33.966	0.000	0.000	0.000	0.000
36	9	-1.508	17.957	-0.006	18.020	18.020	0.000	0.000	0.000	0.000
36	10	-0.791	9.309	-0.006	9.342	9.342	0.000	0.000	0.000	0.000
36	11	-0.403	4.840	-0.006	4.857	4.857	0.000	0.000	0.000	0.000
37	1	0.190	-2.254	-0.006	2.262	2.262	0.000	0.000	0.000	0.000
37	2	0.255	2.798	-0.006	2.809	2.809	0.000	0.000	0.000	0.000
37	3	1.998	24.968	-0.009	25.047	25.047	0.000	0.000	0.000	0.000
37	4	1.052	12.967	-0.006	13.009	13.009	0.000	0.000	0.000	0.000
37	5	0.405	4.858	-0.006	4.875	4.875	0.000	0.000	0.000	0.000
37	6	0.789	9.285	-0.006	9.318	9.318	0.000	0.000	0.000	0.000
37	7	1.507	17.929	-0.006	17.992	17.992	0.000	0.000	0.000	0.000
37	8	2.731	33.848	-0.013	33.958	33.958	0.000	0.000	0.000	0.000
37	9	2.838	35.866	-0.016	35.979	35.979	0.000	0.000	0.000	0.000
37	10	1.573	19.850	-0.008	19.912	19.912	0.000	0.000	0.000	0.000
37	11	1.638	20.541	-0.008	20.606	20.606	0.000	0.000	0.000	0.000
38	1	-0.075	-0.911	-0.005	0.914	0.914	0.000	0.000	0.000	0.000
38	2	-0.084	1.034	-0.006	1.038	1.038	0.000	0.000	0.000	0.000
38	3	-1.495	17.365	-0.007	17.429	17.429	0.000	0.000	0.000	0.000
38	4	-0.490	5.739	-0.006	5.759	5.759	0.000	0.000	0.000	0.000
38	5	-0.327	-3.865	-0.006	3.879	3.879	0.000	0.000	0.000	0.000
38	6	-0.079	0.965	-0.006	0.969	0.969	0.000	0.000	0.000	0.000
38	7	-0.707	8.592	-0.006	8.621	8.621	0.000	0.000	0.000	0.000
38	8	-2.447	28.770	-0.010	28.874	28.874	0.000	0.000	0.000	0.000
38	9	-2.859	33.043	-0.013	33.167	33.167	0.000	0.000	0.000	0.000
38	10	-1.501	17.269	-0.007	17.334	17.334	0.000	0.000	0.000	0.000
38	11	-1.466	16.972	-0.007	17.035	17.035	0.000	0.000	0.000	0.000
39	1	-6.537	0.543	-0.001	6.559	6.559	0.000	0.000	0.000	0.000
39	2	-12.552	1.047	0.004	12.596	12.596	0.000	0.000	0.000	0.000
39	3	28.380	2.492	-0.033	28.489	28.489	0.000	0.000	0.000	0.000
39	4	21.368	1.828	-0.024	21.446	21.446	0.000	0.000	0.000	0.000
39	5	26.074	2.269	-0.030	26.173	26.173	0.000	0.000	0.000	0.000
39	6	28.171	2.448	-0.032	28.277	28.277	0.000	0.000	0.000	0.000
39	7	28.918	2.600	-0.037	29.035	29.035	0.000	0.000	0.000	0.000
39	8	21.611	1.935	-0.027	21.698	21.698	0.000	0.000	0.000	0.000
39	9	5.588	0.484	-0.010	5.609	5.609	0.000	0.000	0.000	0.000
39	10	-3.057	0.255	-0.003	3.067	3.067	0.000	0.000	0.000	0.000

39	11	7.632	0.642	-0.011	7.659	7.659	0.000	0.000	0.000	0.000
40	1	6.550	0.544	-0.011	6.572	6.572	0.000	0.000	0.000	0.000
40	2	12.578	1.050	-0.015	12.621	12.621	0.000	0.000	0.000	0.000
40	3	-28.385	2.490	0.010	28.494	28.494	0.000	0.000	0.000	0.000
40	4	-21.386	1.828	0.009	21.464	21.464	0.000	0.000	0.000	0.000
40	5	-7.668	0.644	0.000	7.695	7.695	0.000	0.000	0.000	0.000
40	6	3.048	0.255	-0.008	3.058	3.058	0.000	0.000	0.000	0.000
40	7	-5.569	0.481	-0.002	5.589	5.589	0.000	0.000	0.000	0.000
40	8	-21.586	1.931	0.006	21.673	21.673	0.000	0.000	0.000	0.000
40	9	-28.902	2.596	0.007	29.018	29.018	0.000	0.000	0.000	0.000
40	10	-28.165	2.445	0.011	28.271	28.271	0.000	0.000	0.000	0.000
40	11	-26.067	2.267	0.010	26.166	26.166	0.000	0.000	0.000	0.000



Reaction Force Tabulation (tabulated by load case)

Units: kip & ft

AC No	Node No	X-Force (kip)	Y-Force (kip)	Z-Force (kip)	Horizontal Resultant	Resultant Force(3D)	X-Moment (kip-ft)	Y-Moment (kip-ft)	Z-Moment (kip-ft)	XY-Result (kip-ft)
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1	1	12.458	-15.940	23.478	20.230	30.991	0.000	0.000	0.000	0.000
1	2	8.928	-18.852	24.210	20.859	31.957	0.000	0.000	0.000	0.000
1	3	4.626	-20.569	24.470	21.082	32.299	0.000	0.000	0.000	0.000
1	4	0.000	-21.222	24.632	21.222	32.513	0.000	0.000	0.000	0.000
1	5	-4.626	-20.566	24.467	21.080	32.295	0.000	0.000	0.000	0.000
1	6	-8.925	-18.847	24.203	20.853	31.947	0.000	0.000	0.000	0.000
1	7	-12.452	-15.932	23.467	20.221	30.977	0.000	0.000	0.000	0.000
1	8	0.841	1.059	-2.535	1.353	2.873	-1.800	-1.131	-1.448	2.126
1	9	-0.841	1.059	-2.533	1.352	2.872	-1.810	1.135	1.453	2.136
1	10	-7.598	7.510	-12.884	10.683	16.737	-1.878	-1.899	-0.189	2.671
1	11	-9.516	15.439	-19.443	18.136	26.588	-3.860	-2.379	0.259	4.534
1	12	-5.866	17.096	-16.945	18.074	24.775	-4.274	-1.466	-0.094	4.518
1	13	-1.925	17.514	-16.846	17.620	24.377	-4.378	-0.481	-0.293	4.405
1	14	1.925	17.515	-16.843	17.621	24.376	-4.379	0.481	0.298	4.405
1	15	5.868	17.104	-16.948	18.083	24.783	-4.276	1.467	0.096	4.520
1	16	9.520	15.445	-19.443	18.143	26.594	-3.861	2.380	-0.257	4.536
1	17	7.592	7.508	-12.866	10.678	16.720	-1.877	1.898	0.190	2.669
1	18	-2.081	2.655	-37.148	3.373	37.301	-0.664	-0.520	0.052	0.843
1	19	-1.372	2.890	-36.993	3.199	37.131	-0.722	-0.343	0.029	0.800
1	20	-0.709	3.140	-37.314	3.219	37.452	-0.785	-0.177	-0.007	0.805
1	21	0.000	3.256	-37.670	3.256	37.811	-0.814	0.000	-0.001	0.814
1	22	0.709	3.139	-37.310	3.218	37.448	-0.785	0.177	0.007	0.804
1	23	1.371	2.889	-36.983	3.198	37.121	-0.722	0.343	-0.029	0.799
1	24	2.079	2.653	-37.129	3.371	37.282	-0.663	0.520	-0.052	0.843

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1	25	0.212	0.033	-21.138	0.215	21.139	0.000	0.000	0.000	0.000
1	26	0.225	0.048	-22.010	0.230	22.011	0.000	0.000	0.000	0.000
1	27	-0.223	0.049	-21.938	0.229	21.939	0.000	0.000	0.000	0.000
1	28	-0.218	0.034	-21.139	0.220	21.140	0.000	0.000	0.000	0.000
1	29	0.204	0.031	-19.273	0.206	19.274	0.000	0.000	0.000	0.000
1	30	0.243	0.048	-22.571	0.248	22.572	0.000	0.000	0.000	0.000
1	31	-0.241	0.049	-22.340	0.246	22.342	0.000	0.000	0.000	0.000
1	32	-0.209	0.031	-19.175	0.212	19.176	0.000	0.000	0.000	0.000
1	33	-6.361	-0.531	-0.001	6.383	6.383	0.000	0.000	0.000	0.000
1	34	6.344	-0.529	-0.010	6.366	6.366	0.000	0.000	0.000	0.000
1	35	0.075	-0.910	-0.005	0.913	0.913	0.000	0.000	0.000	0.000
1	36	-0.188	-2.228	-0.006	2.236	2.236	0.000	0.000	0.000	0.000
1	37	0.190	-2.254	-0.006	2.262	2.262	0.000	0.000	0.000	0.000
1	38	-0.075	-0.911	-0.005	0.914	0.914	0.000	0.000	0.000	0.000
1	39	-6.537	0.543	-0.001	6.559	6.559	0.000	0.000	0.000	0.000
1	40	6.550	0.544	-0.011	6.572	6.572	0.000	0.000	0.000	0.000
1	Sum	0.000	-0.005	-398.533						
2	1	38.028	-48.650	71.578	61.749	94.532	0.000	0.000	0.000	0.000
2	2	27.287	-57.626	73.893	63.759	97.598	0.000	0.000	0.000	0.000
2	3	14.481	-64.113	76.158	65.728	100.600	0.000	0.000	0.000	0.000
2	4	0.001	-66.804	77.397	66.804	102.241	0.000	0.000	0.000	0.000
2	5	-14.481	-64.111	76.156	65.726	100.596	0.000	0.000	0.000	0.000
2	6	-27.285	-57.622	73.888	63.756	97.592	0.000	0.000	0.000	0.000
2	7	-38.023	-48.643	71.568	61.740	94.519	0.000	0.000	0.000	0.000
2	8	0.120	1.205	-1.601	1.211	2.007	-8.408	-3.962	-5.288	9.295
2	9	-0.119	1.206	-1.600	1.212	2.007	-8.432	3.970	5.301	9.320
2	10	-14.836	17.371	-21.457	22.844	31.341	-4.343	-3.709	2.626	5.711
2	11	-26.512	43.185	-47.920	50.674	69.744	-10.795	-6.627	0.909	12.667
2	12	-16.524	48.203	-43.147	50.956	66.770	-12.049	-4.131	0.315	12.738
2	13	-5.386	48.755	-41.658	49.051	64.354	-12.187	-1.346	-0.075	12.262
2	14	5.386	48.761	-41.658	49.057	64.358	-12.189	1.346	0.078	12.263
2	15	16.531	48.223	-43.152	50.978	66.790	-12.055	4.132	-0.313	12.743
2	16	26.526	43.207	-47.920	50.699	69.762	-10.801	6.631	-0.908	12.674
2	17	14.830	17.369	-21.406	22.839	31.302	-4.342	3.707	-2.621	5.710
2	18	-7.804	9.975	-104.493	12.665	105.258	-2.493	-1.950	0.001	3.165
2	19	-5.533	11.707	-107.296	12.948	108.074	-2.926	-1.383	-0.015	3.236
2	20	-3.017	12.942	-109.883	13.289	110.684	-3.234	-0.754	0.013	3.321
2	21	-0.003	13.669	-111.662	13.669	112.496	-3.416	-0.001	0.002	3.416
2	22	3.017	12.942	-109.880	13.289	110.680	-3.234	0.754	-0.013	3.321
2	23	5.533	11.706	-107.290	12.948	108.069	-2.926	1.383	0.015	3.236
2	24	7.803	9.974	-104.481	12.664	105.246	-2.493	1.950	-0.001	3.165
2	25	0.878	-0.111	-42.321	0.885	42.330	0.000	0.000	0.000	0.000

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2	26	0.980	-0.115	-46.370	0.986	46.380	0.000	0.000	0.000	0.000
2	27	-0.978	-0.113	-46.393	0.984	46.403	0.000	0.000	0.000	0.000
2	28	-0.906	-0.115	-42.506	0.913	42.516	0.000	0.000	0.000	0.000
2	29	0.278	-0.034	-13.503	0.280	13.505	0.000	0.000	0.000	0.000
2	30	0.367	-0.045	-17.468	0.370	17.472	0.000	0.000	0.000	0.000
2	31	-0.360	-0.043	-17.123	0.363	17.126	0.000	0.000	0.000	0.000
2	32	-0.282	-0.034	-13.284	0.284	13.287	0.000	0.000	0.000	0.000
2	33	-12.280	-1.018	0.004	12.322	12.322	0.000	0.000	0.000	0.000
2	34	12.258	-1.016	-0.015	12.300	12.300	0.000	0.000	0.000	0.000
2	35	0.083	1.026	-0.006	1.030	1.030	0.000	0.000	0.000	0.000
2	36	-0.254	2.858	-0.006	2.869	2.869	0.000	0.000	0.000	0.000
2	37	0.255	2.798	-0.006	2.809	2.809	0.000	0.000	0.000	0.000
2	38	-0.084	1.034	-0.006	1.038	1.038	0.000	0.000	0.000	0.000
2	39	-12.552	1.047	0.004	12.596	12.596	0.000	0.000	0.000	0.000
2	40	12.578	1.050	-0.015	12.621	12.621	0.000	0.000	0.000	0.000

2	Sum	0.000	0.000	-784.877						
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3	1	23.394	-29.859	44.038	37.932	58.122	0.000	0.000	0.000	0.000
3	2	15.464	-32.604	41.897	36.086	55.295	0.000	0.000	0.000	0.000
3	3	7.462	-33.134	39.436	33.964	52.046	0.000	0.000	0.000	0.000
3	4	0.000	-33.001	38.319	33.001	50.571	0.000	0.000	0.000	0.000
3	5	-7.462	-33.135	39.437	33.965	52.047	0.000	0.000	0.000	0.000
3	6	-15.464	-32.606	41.899	36.087	55.297	0.000	0.000	0.000	0.000
3	7	-23.395	-29.860	44.039	37.933	58.123	0.000	0.000	0.000	0.000
3	8	14.884	16.296	-34.106	22.070	40.624	-26.439	-11.523	-13.231	28.841
3	9	-14.884	16.296	-34.106	22.070	40.623	-26.441	11.522	13.232	28.843
3	10	38.857	8.708	98.148	39.821	105.918	-2.177	9.715	25.208	9.956
3	11	-7.457	13.111	74.740	15.083	76.247	-3.278	-1.864	13.548	3.771
3	12	0.099	1.055	107.815	1.059	107.820	-0.264	0.025	7.891	0.265
3	13	-0.441	5.300	108.247	5.319	108.377	-1.325	-0.110	2.577	1.330
3	14	0.442	5.300	108.245	5.319	108.375	-1.325	0.111	-2.580	1.330
3	15	-0.100	1.052	107.818	1.057	107.823	-0.263	-0.025	-7.888	0.264
3	16	7.448	13.097	74.764	15.066	76.267	-3.275	1.862	-13.541	3.767
3	17	-38.859	8.692	98.197	39.819	105.963	-2.173	-9.716	-25.194	9.956
3	18	0.433	-0.700	-87.597	0.823	87.601	0.175	0.108	-0.049	0.206
3	19	0.539	-1.248	-83.062	1.359	83.073	0.312	0.135	0.036	0.340
3	20	0.287	-1.411	-79.578	1.440	79.591	0.353	0.072	0.068	0.360
3	21	0.000	-1.303	-78.119	1.303	78.130	0.326	0.000	0.005	0.326
3	22	-0.287	-1.411	-79.579	1.439	79.592	0.353	-0.072	-0.068	0.360
3	23	-0.539	-1.247	-83.064	1.359	83.075	0.312	-0.135	-0.036	0.340
3	24	-0.433	-0.700	-87.598	0.823	87.602	0.175	-0.108	0.049	0.206
3	25	-0.207	-0.203	-7.654	0.290	7.659	0.000	0.000	0.000	0.000
3	26	-0.549	-0.892	-19.692	1.048	19.720	0.000	0.000	0.000	0.000

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3	27	0.547	-0.889	-19.654	1.044	19.681	0.000	0.000	0.000	0.000
3	28	0.220	-0.216	-7.931	0.309	7.937	0.000	0.000	0.000	0.000
3	29	4.015	2.438	88.131	4.698	88.256	0.000	0.000	0.000	0.000
3	30	4.888	4.902	106.683	6.923	106.907	0.000	0.000	0.000	0.000
3	31	-4.890	4.894	106.645	6.918	106.870	0.000	0.000	0.000	0.000
3	32	-4.162	2.510	88.684	4.860	88.817	0.000	0.000	0.000	0.000
3	33	14.281	-1.117	-0.019	14.325	14.325	0.000	0.000	0.000	0.000
3	34	-14.249	-1.115	0.003	14.293	14.293	0.000	0.000	0.000	0.000
3	35	1.504	17.464	-0.007	17.529	17.529	0.000	0.000	0.000	0.000
3	36	-1.996	24.966	-0.009	25.046	25.046	0.000	0.000	0.000	0.000
3	37	1.998	24.968	-0.009	25.047	25.047	0.000	0.000	0.000	0.000
3	38	-1.495	17.365	-0.007	17.429	17.429	0.000	0.000	0.000	0.000
3	39	28.380	2.492	-0.033	28.489	28.489	0.000	0.000	0.000	0.000
3	40	-28.385	2.490	0.010	28.494	28.494	0.000	0.000	0.000	0.000

3	Sum	-0.111	-43.257	755.372						
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4	1	24.417	-31.678	46.430	39.996	61.282	0.000	0.000	0.000	0.000
4	2	14.528	-30.962	39.712	34.201	52.410	0.000	0.000	0.000	0.000
4	3	7.051	-31.571	37.563	32.349	49.573	0.000	0.000	0.000	0.000
4	4	0.000	-32.013	37.174	32.013	49.058	0.000	0.000	0.000	0.000
4	5	-7.051	-31.571	37.563	32.349	49.573	0.000	0.000	0.000	0.000
4	6	-14.529	-30.962	39.713	34.201	52.411	0.000	0.000	0.000	0.000
4	7	-24.416	-31.678	46.430	39.996	61.281	0.000	0.000	0.000	0.000
4	8	9.355	10.385	-21.652	13.977	25.771	-17.544	-7.461	-8.849	19.065
4	9	-9.354	10.384	-21.651	13.976	25.770	-17.548	7.461	8.851	19.069
4	10	24.837	7.318	58.886	25.893	64.327	-1.830	6.210	16.754	6.474
4	11	-5.650	13.759	36.846	14.874	39.735	-3.440	-1.412	14.459	3.719
4	12	1.056	-0.837	75.611	1.348	75.623	0.209	0.264	13.000	0.337
4	13	0.014	0.159	81.448	0.159	81.448	-0.040	0.004	6.313	0.040
4	14	-0.014	0.158	81.448	0.159	81.449	-0.040	-0.003	-6.313	0.040
4	15	-1.057	-0.838	75.614	1.349	75.626	0.210	-0.264	-12.999	0.337
4	16	5.644	13.750	36.862	14.864	39.746	-3.438	1.411	-14.455	3.716
4	17	-24.832	7.313	58.911	25.887	64.348	-1.828	-6.209	-16.743	6.472
4	18	-0.175	0.900	-85.499	0.917	85.504	-0.225	-0.044	1.043	0.229
4	19	0.448	-0.469	-75.579	0.648	75.582	0.117	0.112	0.573	0.162
4	20	0.225	-0.639	-74.196	0.678	74.199	0.160	0.056	0.225	0.169
4	21	0.000	-0.422	-73.959	0.422	73.960	0.105	0.000	0.001	0.105
4	22	-0.225	-0.639	-74.197	0.678	74.200	0.160	-0.056	-0.224	0.169
4	23	-0.448	-0.469	-75.580	0.648	75.583	0.117	-0.112	-0.571	0.162
4	24	0.175	0.900	-85.498	0.916	85.503	-0.225	0.044	-1.041	0.229
4	25	-0.034	-0.014	-2.014	0.037	2.014	0.000	0.000	0.000	0.000
4	26	-0.187	-0.228	-9.845	0.295	9.849	0.000	0.000	0.000	0.000
4	27	0.185	-0.226	-9.743	0.292	9.748	0.000	0.000	0.000	0.000

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4	28	0.039	-0.015	-2.172	0.041	2.172	0.000	0.000	0.000	0.000
4	29	1.797	0.399	51.313	1.841	51.346	0.000	0.000	0.000	0.000
4	30	2.247	1.517	63.772	2.711	63.830	0.000	0.000	0.000	0.000
4	31	-2.250	1.519	63.805	2.715	63.862	0.000	0.000	0.000	0.000
4	32	-1.864	0.409	51.674	1.909	51.709	0.000	0.000	0.000	0.000
4	33	10.348	-0.835	-0.014	10.382	10.382	0.000	0.000	0.000	0.000
4	34	-10.329	-0.833	0.002	10.362	10.362	0.000	0.000	0.000	0.000
4	35	0.494	5.789	-0.006	5.810	5.810	0.000	0.000	0.000	0.000
4	36	-1.050	12.947	-0.006	12.989	12.989	0.000	0.000	0.000	0.000
4	37	1.052	12.967	-0.006	13.009	13.009	0.000	0.000	0.000	0.000
4	38	-0.490	5.739	-0.006	5.759	5.759	0.000	0.000	0.000	0.000
4	39	21.368	1.828	-0.024	21.446	21.446	0.000	0.000	0.000	0.000
4	40	-21.386	1.828	0.009	21.464	21.464	0.000	0.000	0.000	0.000
4	Sum	-0.061	-116.932	409.140						

5	1	22.841	-28.993	42.852	36.909	56.556	0.000	0.000	0.000	0.000
5	2	15.468	-32.116	41.388	35.647	54.623	0.000	0.000	0.000	0.000
5	3	7.634	-32.237	38.464	33.129	50.764	0.000	0.000	0.000	0.000
5	4	0.543	-39.637	46.013	39.641	60.733	0.000	0.000	0.000	0.000
5	5	-9.824	-46.945	55.643	47.962	73.461	0.000	0.000	0.000	0.000
5	6	-21.189	-46.408	59.174	51.016	78.130	0.000	0.000	0.000	0.000
5	7	-30.629	-40.147	58.579	50.496	77.339	0.000	0.000	0.000	0.000
5	8	24.814	26.002	-57.199	35.942	67.554	-23.059	-18.462	-9.468	29.539
5	9	5.378	-5.296	12.653	7.548	14.733	-5.471	-5.615	5.184	7.840
5	10	101.582	4.275	143.614	101.672	175.960	-1.068	25.400	75.242	25.423
5	11	-13.710	24.134	22.547	27.756	35.760	-6.034	-3.428	16.097	6.939
5	12	2.057	-4.636	71.569	5.072	71.749	1.159	0.514	6.790	1.268
5	13	-0.580	0.934	58.297	1.100	58.307	-0.233	-0.145	3.710	0.275
5	14	0.026	9.224	44.202	9.224	45.154	-2.306	0.007	3.916	2.306
5	15	3.105	12.429	34.438	12.811	36.744	-3.108	0.776	-0.675	3.203
5	16	8.144	15.350	16.845	17.376	24.201	-3.838	2.036	-0.034	4.344
5	17	7.280	12.307	-4.871	14.299	15.106	-3.077	1.820	50.349	3.575
5	18	-0.442	0.001	-86.438	0.442	86.439	0.000	-0.111	0.584	0.111
5	19	-0.272	-0.538	-78.836	0.603	78.838	0.135	-0.068	0.236	0.151
5	20	-0.579	-0.772	-75.464	0.965	75.470	0.193	-0.145	-0.526	0.241
5	21	-0.951	1.254	-84.624	1.574	84.639	-0.313	-0.238	-0.808	0.393
5	22	-0.090	4.757	-96.805	4.758	96.921	-1.189	-0.023	-0.830	1.189
5	23	1.468	5.708	-99.358	5.893	99.532	-1.426	0.367	-0.569	1.473
5	24	3.041	5.413	-96.119	6.209	96.320	-1.353	0.760	-0.302	1.552
5	25	-0.388	-0.332	-12.831	0.511	12.841	0.000	0.000	0.000	0.000
5	26	-1.470	-1.799	-47.275	2.323	47.332	0.000	0.000	0.000	0.000
5	27	0.009	0.151	19.435	0.152	19.435	0.000	0.000	0.000	0.000
5	28	-0.001	0.012	-2.627	0.012	2.627	0.000	0.000	0.000	0.000

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5	29	3.351	2.121	79.647	3.966	79.745	0.000	0.000	0.000	0.000
5	30	2.867	2.594	67.629	3.867	67.739	0.000	0.000	0.000	0.000
5	31	-0.429	0.274	35.293	0.509	35.297	0.000	0.000	0.000	0.000
5	32	-0.031	-0.012	2.261	0.033	2.261	0.000	0.000	0.000	0.000
5	33	16.317	-1.289	-0.020	16.368	16.368	0.000	0.000	0.000	0.000
5	34	0.993	-0.083	-0.006	0.996	0.996	0.000	0.000	0.000	0.000
5	35	1.473	17.034	-0.007	17.097	17.097	0.000	0.000	0.000	0.000
5	36	-1.639	20.562	-0.008	20.627	20.627	0.000	0.000	0.000	0.000
5	37	0.405	4.858	-0.006	4.875	4.875	0.000	0.000	0.000	0.000
5	38	-0.327	-3.865	-0.006	3.879	3.879	0.000	0.000	0.000	0.000
5	39	26.074	2.269	-0.030	26.173	26.173	0.000	0.000	0.000	0.000
5	40	-7.668	0.644	0.000	7.695	7.695	0.000	0.000	0.000	0.000

5	Sum	164.650	-112.799	208.013						
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6	1	29.620	-36.973	54.964	47.374	72.563	0.000	0.000	0.000	0.000
6	2	23.015	-46.685	60.364	52.050	79.706	0.000	0.000	0.000	0.000
6	3	11.666	-48.350	57.695	49.738	76.174	0.000	0.000	0.000	0.000
6	4	0.713	-48.209	55.937	48.215	73.849	0.000	0.000	0.000	0.000
6	5	-9.933	-47.404	56.190	48.433	74.183	0.000	0.000	0.000	0.000
6	6	-19.647	-43.091	54.949	47.359	72.542	0.000	0.000	0.000	0.000
6	7	-24.096	-31.004	45.590	39.267	60.169	0.000	0.000	0.000	0.000
6	8	22.508	24.247	-53.341	33.084	62.768	-20.216	-21.642	-7.240	29.615
6	9	5.325	-5.388	13.069	7.576	15.106	-7.233	-7.362	7.124	10.321
6	10	123.278	5.666	136.899	123.408	184.312	-1.415	30.825	97.575	30.857
6	11	-28.898	43.921	-31.495	52.575	61.287	-10.980	-7.224	24.708	13.143
6	12	-5.680	15.256	29.346	16.279	33.559	-3.814	-1.420	12.302	4.070
6	13	-2.699	18.416	27.318	18.613	33.056	-4.604	-0.675	14.046	4.654
6	14	1.721	20.088	29.236	20.162	35.514	-5.022	0.430	15.913	5.041
6	15	6.173	16.810	34.423	17.908	38.803	-4.203	1.544	11.076	4.477
6	16	10.605	13.180	34.879	16.917	38.765	-3.295	2.651	4.208	4.229
6	17	9.714	16.284	0.184	18.961	18.962	-4.071	2.429	70.952	4.740
6	18	-3.097	2.299	-101.825	3.858	101.898	-0.575	-0.774	-0.415	0.964
6	19	-3.632	4.697	-102.566	5.938	102.738	-1.174	-0.908	-0.798	1.484
6	20	-2.436	5.300	-96.643	5.833	96.819	-1.325	-0.609	-0.654	1.458
6	21	-1.145	5.823	-93.358	5.934	93.547	-1.455	-0.286	-0.419	1.483
6	22	0.211	6.194	-93.516	6.197	93.722	-1.548	0.053	-0.295	1.549
6	23	1.675	6.152	-91.857	6.376	92.078	-1.537	0.419	-0.306	1.593
6	24	1.614	2.452	-80.099	2.935	80.153	-0.613	0.403	0.359	0.734
6	25	-0.258	-0.193	-7.503	0.322	7.510	0.000	0.000	0.000	0.000
6	26	-2.696	-2.798	-75.078	3.886	75.178	0.000	0.000	0.000	0.000
6	27	0.543	0.468	32.739	0.717	32.747	0.000	0.000	0.000	0.000
6	28	-0.403	-0.054	-24.419	0.407	24.422	0.000	0.000	0.000	0.000
6	29	4.159	2.431	90.829	4.817	90.957	0.000	0.000	0.000	0.000

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6	30	1.962	1.593	42.374	2.527	42.449	0.000	0.000	0.000	0.000
6	31	0.218	0.700	48.821	0.734	48.827	0.000	0.000	0.000	0.000
6	32	-0.085	-0.042	-19.541	0.095	19.541	0.000	0.000	0.000	0.000
6	33	19.042	-1.506	-0.023	19.101	19.101	0.000	0.000	0.000	0.000
6	34	9.636	-0.799	-0.013	9.669	9.669	0.000	0.000	0.000	0.000
6	35	1.508	17.338	-0.007	17.404	17.404	0.000	0.000	0.000	0.000
6	36	-1.574	19.872	-0.008	19.934	19.934	0.000	0.000	0.000	0.000
6	37	0.789	9.285	-0.006	9.318	9.318	0.000	0.000	0.000	0.000
6	38	-0.079	0.965	-0.006	0.969	0.969	0.000	0.000	0.000	0.000
6	39	28.171	2.448	-0.032	28.277	28.277	0.000	0.000	0.000	0.000
6	40	3.048	0.255	-0.008	3.058	3.058	0.000	0.000	0.000	0.000

6	Sum	210.555	-50.354	34.466						
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7	1	30.339	-37.896	56.322	48.544	74.355	0.000	0.000	0.000	0.000
7	2	20.347	-41.411	53.540	46.140	70.678	0.000	0.000	0.000	0.000
7	3	8.239	-35.198	41.975	36.150	55.396	0.000	0.000	0.000	0.000
7	4	0.082	-33.237	38.597	33.237	50.935	0.000	0.000	0.000	0.000
7	5	-6.763	-30.065	35.784	30.816	47.225	0.000	0.000	0.000	0.000
7	6	-13.832	-29.329	37.655	32.427	49.693	0.000	0.000	0.000	0.000
7	7	-20.581	-26.381	38.853	33.459	51.275	0.000	0.000	0.000	0.000
7	8	16.065	18.841	-38.955	24.760	46.158	-30.305	-20.274	-13.781	36.461
7	9	-5.749	6.791	-12.773	8.898	15.566	-21.790	3.436	13.319	22.059
7	10	81.841	21.769	99.420	84.686	130.599	-5.442	20.463	74.999	21.174
7	11	-40.467	63.752	-40.139	75.510	85.516	-15.937	-10.115	25.344	18.876
7	12	-11.265	36.721	30.715	38.410	49.181	-9.181	-2.816	13.211	9.603
7	13	-2.350	34.137	46.312	34.218	57.581	-8.535	-0.587	9.660	8.555
7	14	3.609	25.755	62.847	26.007	68.016	-6.440	0.903	10.768	6.503
7	15	5.763	15.625	73.095	16.654	74.968	-3.907	1.441	6.900	4.164
7	16	8.545	13.485	66.460	15.965	68.350	-3.372	2.137	4.975	3.992
7	17	13.082	15.268	38.079	20.106	43.061	-3.817	3.271	28.262	5.027
7	18	-4.595	4.429	-95.986	6.382	96.198	-1.107	-1.148	-0.496	1.595
7	19	-3.403	4.887	-89.491	5.955	89.688	-1.221	-0.850	-0.837	1.488
7	20	-1.388	3.424	-75.291	3.695	75.381	-0.856	-0.347	0.114	0.923
7	21	-0.195	1.557	-72.303	1.569	72.320	-0.389	-0.049	0.399	0.392
7	22	-0.058	-0.184	-69.736	0.193	69.737	0.046	-0.015	0.419	0.048
7	23	-0.358	-0.505	-73.432	0.619	73.435	0.126	-0.089	0.087	0.155
7	24	-0.159	-0.085	-75.735	0.180	75.735	0.021	-0.040	0.192	0.045
7	25	-1.250	-1.981	-36.668	2.342	36.743	0.000	0.000	0.000	0.000
7	26	-3.967	-7.485	-113.842	8.471	114.157	0.000	0.000	0.000	0.000
7	27	0.167	0.590	19.284	0.613	19.294	0.000	0.000	0.000	0.000
7	28	-0.330	-0.582	-38.260	0.669	38.266	0.000	0.000	0.000	0.000
7	29	6.094	7.456	136.250	9.629	136.589	0.000	0.000	0.000	0.000
7	30	4.002	5.872	88.793	7.106	89.077	0.000	0.000	0.000	0.000

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7	31	-0.579	2.724	89.600	2.785	89.643	0.000	0.000	0.000	0.000
7	32	-0.075	0.171	10.952	0.187	10.953	0.000	0.000	0.000	0.000
7	33	17.160	-1.306	-0.024	17.209	17.209	0.000	0.000	0.000	0.000
7	34	4.609	-0.376	-0.009	4.625	4.625	0.000	0.000	0.000	0.000
7	35	2.868	33.128	-0.013	33.252	33.252	0.000	0.000	0.000	0.000
7	36	-2.839	35.898	-0.016	36.010	36.010	0.000	0.000	0.000	0.000
7	37	1.507	17.929	-0.006	17.992	17.992	0.000	0.000	0.000	0.000
7	38	-0.707	8.592	-0.006	8.621	8.621	0.000	0.000	0.000	0.000
7	39	28.918	2.600	-0.037	29.035	29.035	0.000	0.000	0.000	0.000
7	40	-5.569	0.481	-0.002	5.589	5.589	0.000	0.000	0.000	0.000

7	Sum	126.760	135.862	231.808						
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8	1	20.678	-26.496	39.028	33.609	51.505	0.000	0.000	0.000	0.000
8	2	12.870	-27.228	34.971	30.116	46.152	0.000	0.000	0.000	0.000
8	3	6.418	-28.554	33.984	29.266	44.849	0.000	0.000	0.000	0.000
8	4	0.000	-28.766	33.402	28.766	44.081	0.000	0.000	0.000	0.000
8	5	-6.417	-28.549	33.978	29.262	44.841	0.000	0.000	0.000	0.000
8	6	-12.865	-27.218	34.958	30.105	46.135	0.000	0.000	0.000	0.000
8	7	-20.665	-26.479	39.004	33.589	51.473	0.000	0.000	0.000	0.000
8	8	14.930	17.129	-34.731	22.722	41.503	-33.488	-14.208	-17.463	36.377
8	9	-14.923	17.130	-34.721	22.718	41.493	-33.574	14.238	17.514	36.468
8	10	23.929	22.695	78.099	32.980	84.777	-5.674	5.983	27.774	8.246
8	11	-23.245	39.007	30.107	45.408	54.482	-9.752	-5.811	11.236	11.353
8	12	-7.570	23.164	72.267	24.370	76.266	-5.792	-1.893	8.493	6.094
8	13	-2.815	26.256	76.500	26.407	80.929	-6.565	-0.704	3.110	6.603
8	14	2.817	26.277	76.492	26.427	80.929	-6.570	0.704	-3.100	6.608
8	15	7.590	23.222	72.250	24.431	76.268	-5.807	1.898	-8.482	6.109
8	16	23.291	39.082	30.093	45.496	54.548	-9.771	5.823	-11.224	11.375
8	17	-23.852	22.770	78.135	32.975	84.808	-5.693	-5.964	-27.740	8.245
8	18	-0.618	0.839	-74.802	1.042	74.810	-0.210	-0.155	0.208	0.261
8	19	0.413	-0.790	-68.993	0.891	68.999	0.197	0.103	0.201	0.223
8	20	0.211	-0.936	-68.520	0.959	68.527	0.234	0.053	0.043	0.240
8	21	0.000	-0.814	-68.008	0.814	68.013	0.203	0.000	0.000	0.203
8	22	-0.211	-0.936	-68.512	0.960	68.519	0.234	-0.053	-0.042	0.240
8	23	-0.413	-0.791	-68.973	0.893	68.978	0.198	-0.103	-0.199	0.223
8	24	0.616	0.837	-74.766	1.039	74.773	-0.209	0.154	-0.207	0.260
8	25	-0.916	-2.186	-45.812	2.370	45.874	0.000	0.000	0.000	0.000
8	26	-1.186	-3.534	-58.099	3.728	58.219	0.000	0.000	0.000	0.000
8	27	1.191	-3.544	-58.344	3.739	58.464	0.000	0.000	0.000	0.000
8	28	0.959	-2.285	-46.578	2.478	46.644	0.000	0.000	0.000	0.000
8	29	3.177	4.753	98.414	5.717	98.580	0.000	0.000	0.000	0.000
8	30	3.824	7.233	118.065	8.182	118.348	0.000	0.000	0.000	0.000
8	31	-3.835	7.248	118.482	8.200	118.766	0.000	0.000	0.000	0.000

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8	32	-3.296	4.926	99.238	5.927	99.415	0.000	0.000	0.000	0.000
8	33	9.272	-0.711	-0.015	9.299	9.299	0.000	0.000	0.000	0.000
8	34	-9.281	-0.712	0.000	9.308	9.308	0.000	0.000	0.000	0.000
8	35	2.452	28.814	-0.010	28.918	28.918	0.000	0.000	0.000	0.000
8	36	-2.730	33.856	-0.013	33.966	33.966	0.000	0.000	0.000	0.000
8	37	2.731	33.848	-0.013	33.958	33.958	0.000	0.000	0.000	0.000
8	38	-2.447	28.770	-0.010	28.874	28.874	0.000	0.000	0.000	0.000
8	39	21.611	1.935	-0.027	21.698	21.698	0.000	0.000	0.000	0.000
8	40	-21.586	1.931	0.006	21.673	21.673	0.000	0.000	0.000	0.000

8	Sum	0.110	201.192	426.526						
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9	1	20.587	-26.389	38.864	33.469	51.290	0.000	0.000	0.000	0.000
9	2	13.834	-29.333	37.660	32.432	49.700	0.000	0.000	0.000	0.000
9	3	6.763	-30.066	35.786	30.818	47.227	0.000	0.000	0.000	0.000
9	4	-0.082	-33.233	38.593	33.234	50.930	0.000	0.000	0.000	0.000
9	5	-8.239	-35.195	41.971	36.146	55.390	0.000	0.000	0.000	0.000
9	6	-20.343	-41.404	53.530	46.132	70.666	0.000	0.000	0.000	0.000
9	7	-30.329	-37.883	56.304	48.528	74.331	0.000	0.000	0.000	0.000
9	8	5.754	6.793	-12.782	8.902	15.577	-21.760	-3.428	-13.302	22.028
9	9	-16.059	18.842	-38.947	24.758	46.150	-30.372	20.296	13.821	36.529
9	10	-13.078	15.262	38.021	20.098	43.006	-3.816	-3.270	-28.234	5.025
9	11	-8.535	13.467	66.452	15.944	68.338	-3.367	-2.134	-4.964	3.987
9	12	-5.758	15.609	73.100	16.637	74.969	-3.903	-1.440	-6.892	4.160
9	13	-3.608	25.756	62.853	26.008	68.021	-6.440	-0.902	-10.768	6.503
9	14	2.353	34.163	46.304	34.244	57.591	-8.542	0.588	-9.655	8.562
9	15	11.283	36.774	30.701	38.466	49.216	-9.194	2.821	-13.200	9.617
9	16	40.503	63.811	-40.143	75.580	85.579	-15.952	10.125	-25.329	18.894
9	17	-81.779	21.823	99.463	84.641	130.602	-5.455	-20.448	-74.965	21.163
9	18	0.158	-0.084	-75.752	0.179	75.752	0.021	0.040	-0.192	0.045
9	19	0.357	-0.504	-73.440	0.618	73.443	0.126	0.089	-0.087	0.154
9	20	0.058	-0.183	-69.739	0.193	69.740	0.046	0.015	-0.420	0.048
9	21	0.193	1.556	-72.298	1.567	72.315	-0.389	0.048	-0.388	0.392
9	22	1.388	3.424	-75.284	3.694	75.375	-0.856	0.347	-0.114	0.923
9	23	3.403	4.886	-89.476	5.954	89.674	-1.221	0.850	0.837	1.488
9	24	4.594	4.427	-95.957	6.379	96.169	-1.106	1.148	0.496	1.594
9	25	0.316	-0.561	-37.795	0.644	37.800	0.000	0.000	0.000	0.000
9	26	-0.166	0.588	19.179	0.611	19.189	0.000	0.000	0.000	0.000
9	27	3.982	-7.498	-114.267	8.490	114.582	0.000	0.000	0.000	0.000
9	28	1.309	-2.069	-37.294	2.448	37.374	0.000	0.000	0.000	0.000
9	29	0.071	0.163	10.632	0.178	10.634	0.000	0.000	0.000	0.000
9	30	0.579	2.723	89.302	2.784	89.346	0.000	0.000	0.000	0.000
9	31	-4.015	5.878	89.078	7.119	89.362	0.000	0.000	0.000	0.000
9	32	-6.319	7.710	137.252	9.969	137.614	0.000	0.000	0.000	0.000

9	33	-4.603	-0.376	-0.002	4.618	4.618	0.000	0.000	0.000	0.000
9	34	-17.175	-1.307	0.003	17.225	17.225	0.000	0.000	0.000	0.000
9	35	0.711	8.633	-0.006	8.662	8.662	0.000	0.000	0.000	0.000
9	36	-1.508	17.957	-0.006	18.020	18.020	0.000	0.000	0.000	0.000
9	37	2.838	35.866	-0.016	35.979	35.979	0.000	0.000	0.000	0.000
9	38	-2.859	33.043	-0.013	33.167	33.167	0.000	0.000	0.000	0.000
9	39	5.588	0.484	-0.010	5.609	5.609	0.000	0.000	0.000	0.000
9	40	-28.902	2.596	0.007	29.018	29.018	0.000	0.000	0.000	0.000
9	Sum	-126.734	136.148	231.827						
10	1	24.098	-31.007	45.594	39.270	60.174	0.000	0.000	0.000	0.000
10	2	19.648	-43.093	54.951	47.360	72.544	0.000	0.000	0.000	0.000
10	3	9.934	-47.405	56.192	48.434	74.185	0.000	0.000	0.000	0.000
10	4	-0.712	-48.212	55.941	48.218	73.853	0.000	0.000	0.000	0.000
10	5	-11.666	-48.350	57.695	49.738	76.175	0.000	0.000	0.000	0.000
10	6	-23.016	-46.685	60.364	52.050	79.706	0.000	0.000	0.000	0.000
10	7	-29.619	-36.972	54.963	47.373	72.561	0.000	0.000	0.000	0.000
10	8	-5.325	-5.388	13.068	7.575	15.105	-7.228	7.363	-7.122	10.318
10	9	-22.508	24.246	-53.340	33.083	62.766	-20.213	21.639	7.237	29.611
10	10	-9.729	16.299	0.140	18.981	18.982	-4.075	-2.432	-70.944	4.745
10	11	-10.609	13.186	34.868	16.924	38.758	-3.297	-2.652	-4.204	4.231
10	12	-6.173	16.809	34.423	17.907	38.802	-4.203	-1.543	-11.074	4.477
10	13	-1.720	20.087	29.237	20.161	35.514	-5.022	-0.430	-15.916	5.041
10	14	2.697	18.411	27.330	18.608	33.063	-4.603	0.674	-14.029	4.652
10	15	5.679	15.253	29.352	16.276	33.562	-3.813	1.420	-12.300	4.069
10	16	28.889	43.906	-31.471	52.558	61.259	-10.976	7.221	-24.703	13.139
10	17	-123.286	5.644	136.941	123.415	184.348	-1.410	-30.827	-97.564	30.859
10	18	-1.614	2.452	-80.105	2.936	80.158	-0.613	-0.403	-0.359	0.734
10	19	-1.675	6.152	-91.859	6.376	92.080	-1.538	-0.419	0.306	1.594
10	20	-0.212	6.194	-93.518	6.197	93.723	-1.548	-0.053	0.296	1.549
10	21	1.144	5.823	-93.366	5.934	93.554	-1.455	0.286	0.420	1.483
10	22	2.436	5.300	-96.645	5.833	96.820	-1.325	0.609	0.655	1.458
10	23	3.632	4.698	-102.567	5.938	102.739	-1.174	0.908	0.798	1.484
10	24	3.096	2.298	-101.817	3.856	101.890	-0.574	0.774	0.416	0.964
10	25	0.389	-0.054	-24.284	0.393	24.287	0.000	0.000	0.000	0.000
10	26	-0.540	0.468	32.555	0.715	32.563	0.000	0.000	0.000	0.000
10	27	2.699	-2.797	-75.202	3.887	75.302	0.000	0.000	0.000	0.000
10	28	0.272	-0.203	-7.675	0.339	7.682	0.000	0.000	0.000	0.000
10	29	0.084	-0.043	-19.696	0.094	19.696	0.000	0.000	0.000	0.000
10	30	-0.218	0.701	48.655	0.734	48.660	0.000	0.000	0.000	0.000
10	31	-1.963	1.590	42.381	2.526	42.456	0.000	0.000	0.000	0.000
10	32	-4.308	2.506	91.378	4.983	91.514	0.000	0.000	0.000	0.000
10	33	-9.630	-0.799	0.002	9.663	9.663	0.000	0.000	0.000	0.000

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10	34	-19.047	-1.506	0.006	19.106	19.106	0.000	0.000	0.000	0.000
10	35	0.082	1.006	-0.006	1.010	1.010	0.000	0.000	0.000	0.000
10	36	-0.791	9.309	-0.006	9.342	9.342	0.000	0.000	0.000	0.000
10	37	1.573	19.850	-0.008	19.912	19.912	0.000	0.000	0.000	0.000
10	38	-1.501	17.269	-0.007	17.334	17.334	0.000	0.000	0.000	0.000
10	39	-3.057	0.255	-0.003	3.067	3.067	0.000	0.000	0.000	0.000
10	40	-28.165	2.445	0.011	28.271	28.271	0.000	0.000	0.000	0.000

10	Sum	-210.728	-50.356	34.474						
----	-----	----------	---------	--------	--	--	--	--	--	--

11	1	30.629	-40.148	58.580	50.497	77.341	0.000	0.000	0.000	0.000
11	2	21.190	-46.408	59.174	51.016	78.130	0.000	0.000	0.000	0.000
11	3	9.825	-46.946	55.644	47.963	73.462	0.000	0.000	0.000	0.000
11	4	-0.543	-39.645	46.022	39.648	60.745	0.000	0.000	0.000	0.000
11	5	-7.635	-32.239	38.466	33.131	50.767	0.000	0.000	0.000	0.000
11	6	-15.468	-32.117	41.390	35.648	54.625	0.000	0.000	0.000	0.000
11	7	-22.840	-28.992	42.851	36.908	56.555	0.000	0.000	0.000	0.000
11	8	-5.377	-5.295	12.651	7.547	14.731	-5.468	5.615	-5.182	7.838
11	9	-24.813	26.000	-57.197	35.940	67.551	-23.057	18.460	9.467	29.537
11	10	-7.284	12.311	-4.889	14.305	15.117	-3.078	-1.821	-50.337	3.576
11	11	-8.148	15.357	16.838	17.385	24.203	-3.839	-2.037	0.038	4.346
11	12	-3.106	12.433	34.436	12.815	36.743	-3.109	-0.777	0.676	3.204
11	13	-0.026	9.228	44.199	9.228	45.152	-2.307	-0.007	-3.915	2.307
11	14	0.580	0.934	58.301	1.100	58.312	-0.234	0.145	-3.702	0.275
11	15	-2.057	-4.637	71.573	5.073	71.753	1.159	-0.514	-6.786	1.268
11	16	13.701	24.120	22.572	27.739	35.763	-6.030	3.425	-16.091	6.935
11	17	-101.587	4.254	143.659	101.676	176.000	-1.063	-25.401	-75.229	25.424
11	18	-3.041	5.413	-96.121	6.209	96.321	-1.353	-0.760	0.302	1.552
11	19	-1.468	5.708	-99.358	5.893	99.532	-1.426	-0.367	0.570	1.473
11	20	0.090	4.757	-96.806	4.758	96.922	-1.189	0.022	0.831	1.189
11	21	0.951	1.257	-84.638	1.576	84.653	-0.314	0.238	0.808	0.394
11	22	0.579	-0.772	-75.467	0.964	75.473	0.193	0.145	0.526	0.241
11	23	0.272	-0.538	-78.838	0.603	78.840	0.134	0.068	-0.236	0.151
11	24	0.442	0.000	-86.432	0.442	86.434	0.000	0.110	-0.584	0.110
11	25	0.001	0.011	-2.587	0.012	2.587	0.000	0.000	0.000	0.000
11	26	-0.009	0.149	19.237	0.150	19.237	0.000	0.000	0.000	0.000
11	27	1.471	-1.797	-47.331	2.322	47.388	0.000	0.000	0.000	0.000
11	28	0.407	-0.347	-13.065	0.535	13.076	0.000	0.000	0.000	0.000
11	29	0.028	-0.011	2.111	0.030	2.112	0.000	0.000	0.000	0.000
11	30	0.426	0.272	35.219	0.506	35.223	0.000	0.000	0.000	0.000
11	31	-2.870	2.590	67.672	3.866	67.782	0.000	0.000	0.000	0.000
11	32	-3.472	2.189	80.171	4.105	80.276	0.000	0.000	0.000	0.000
11	33	-0.976	-0.082	-0.005	0.979	0.979	0.000	0.000	0.000	0.000
11	34	-16.324	-1.290	0.005	16.374	16.374	0.000	0.000	0.000	0.000

11	35	0.323	-3.818	-0.006	3.832	3.832	0.000	0.000	0.000	0.000
11	36	-0.403	4.840	-0.006	4.857	4.857	0.000	0.000	0.000	0.000
11	37	1.638	20.541	-0.008	20.606	20.606	0.000	0.000	0.000	0.000
11	38	-1.466	16.972	-0.007	17.035	17.035	0.000	0.000	0.000	0.000
11	39	7.632	0.642	-0.011	7.659	7.659	0.000	0.000	0.000	0.000
11	40	-26.067	2.267	0.010	26.166	26.166	0.000	0.000	0.000	0.000

11 Sum -164.799 -112.836 208.010

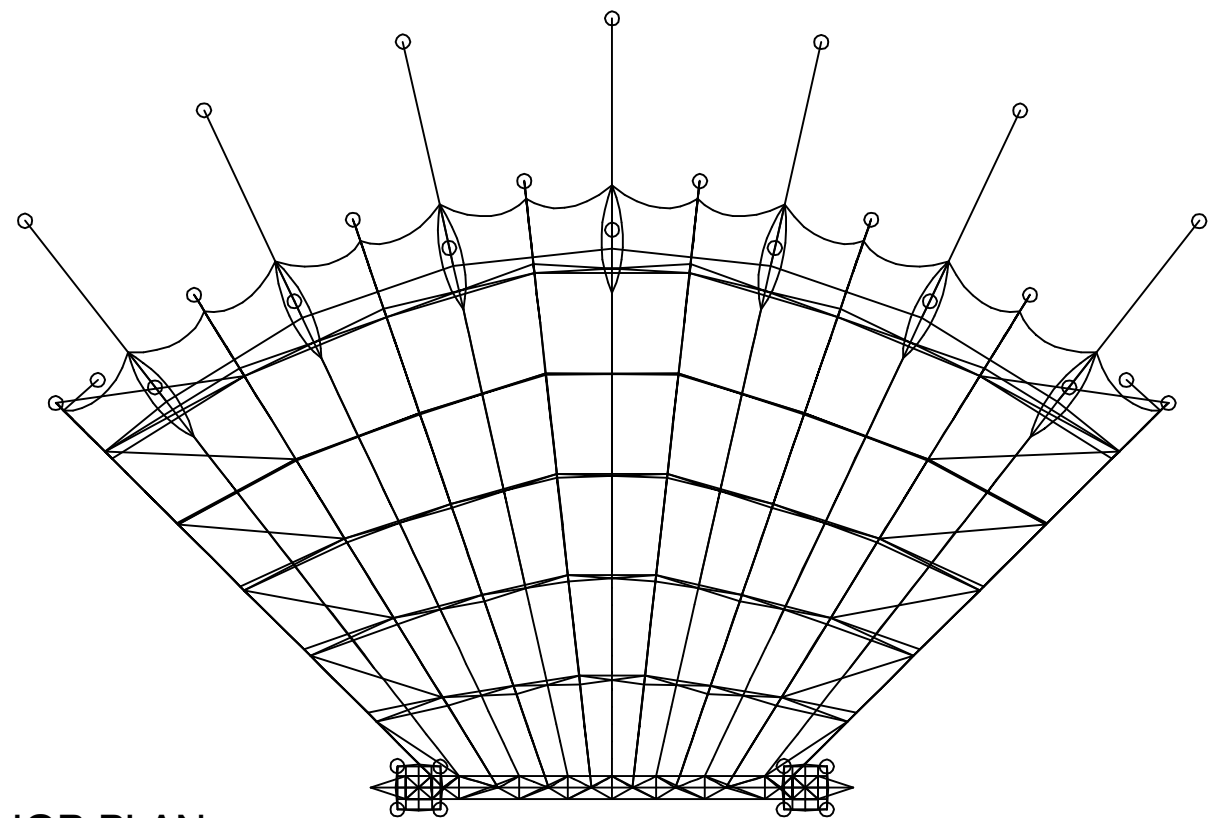


Node Coordinates of the Reaction Nodes

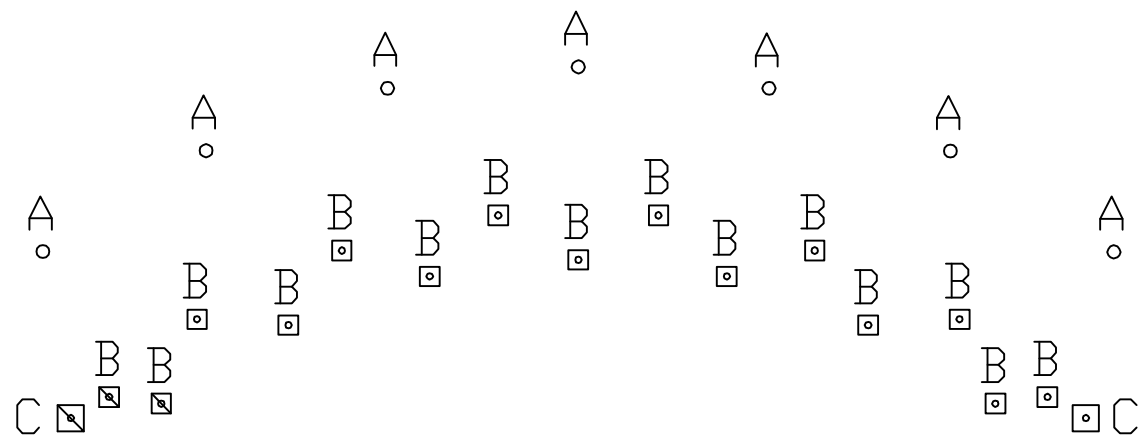
Units: ft

Node	X-Coord	Y-Coord	Z-Coord
1	-164.385	209.132	8.032
2	-114.250	240.066	8.032
3	-58.550	259.250	8.032
4	0.000	265.750	8.032
5	58.550	259.250	8.032
6	114.250	240.066	8.032
7	164.385	209.132	8.032
8	-144.006	164.657	11.137
9	144.006	164.657	11.137
10	-156.498	158.902	11.137
11	-116.958	188.356	11.137
12	-72.350	208.863	11.137
13	-24.602	220.406	11.137
14	24.602	220.406	11.137
15	72.350	208.863	11.137
16	116.958	188.356	11.137
17	156.498	158.902	11.137
18	-134.171	170.474	11.137
19	-93.251	195.722	11.137
20	-47.789	211.380	11.137
21	0.000	216.686	11.137
22	47.789	211.380	11.137
23	93.251	195.722	11.137
24	134.171	170.474	11.137
25	-72.114	56.455	10.500
26	-60.114	56.455	10.500
27	60.109	56.451	10.500
28	72.109	56.451	10.500
29	-72.114	44.455	10.500
30	-60.114	44.455	10.500

31	60.109	44.451	10.500
32	72.109	44.451	10.500
33	-66.114	56.955	11.141
34	66.109	56.951	11.132
35	-72.614	50.459	11.146
36	-59.614	50.455	11.137
37	59.609	50.455	11.137
38	72.609	50.451	11.128
39	-66.111	43.955	11.141
40	66.111	43.951	11.132

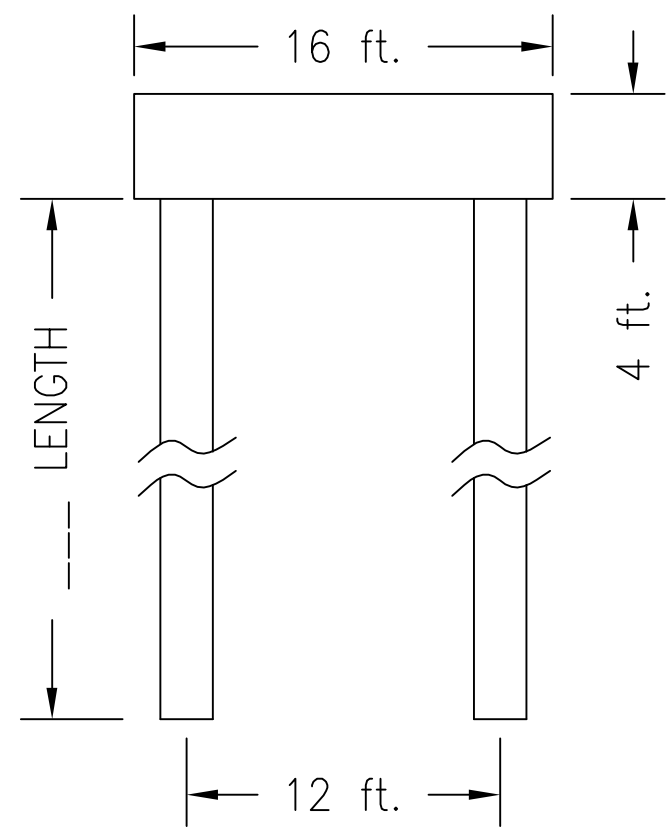
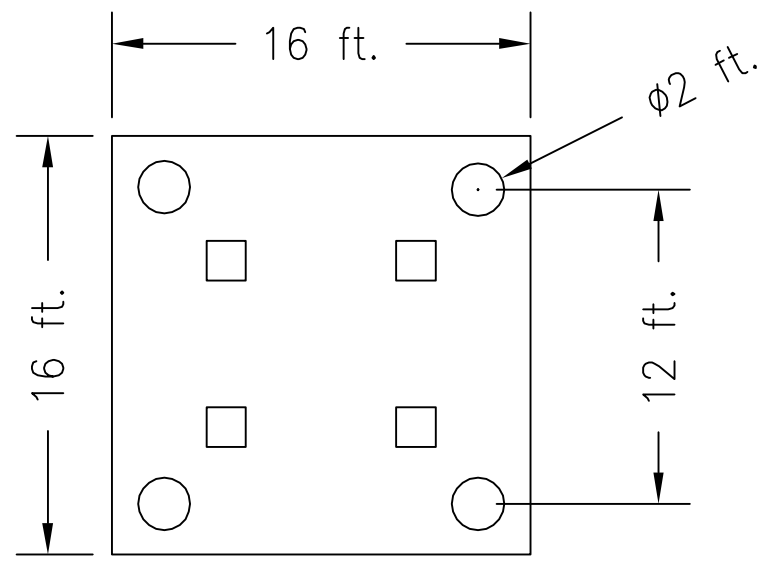


1 ANCHOR PLAN
F1 SCALE: NTS



2 FOUNDATION PLAN
F1 SCALE: NTS

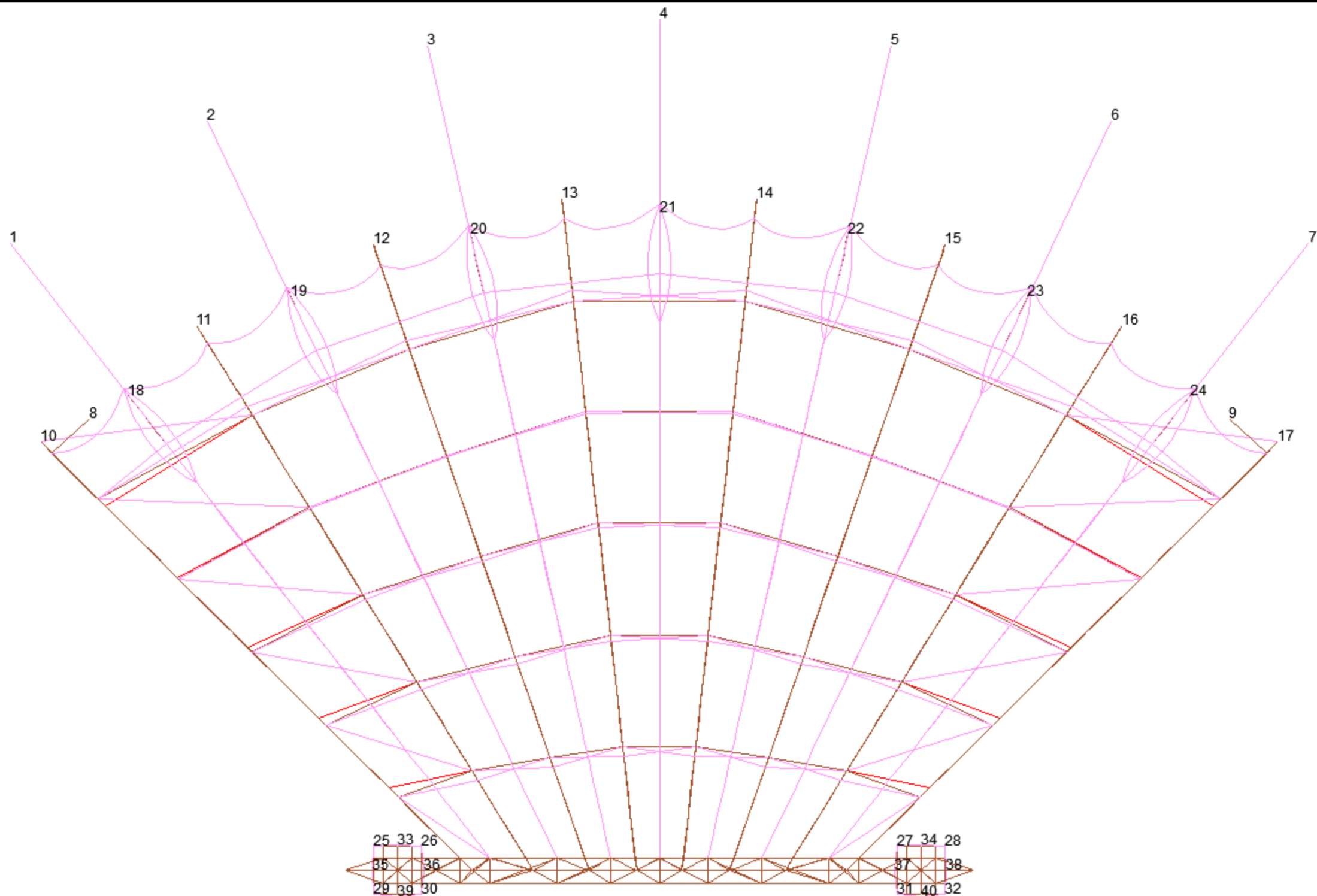
- A SS 225 (2.25" SQUARE SHAFT)
ULTIMATE STRENGTH = 200 KIPS
- B 6 FT X 6 FT X 3 FT
WITH ___ FT DIAMETER PIER
DRILLED ____ FT DEEP
- C 8 FT X 8 FT X 3 FT
WITH ___ FT DIAMETER PIER
DRILLED ____ FT DEEP
- D 16 FT X 16 FT 4 FT
WITH FOUR (4) ___ FT DIAM.
PIERS DRILLED ____ FT DEEP

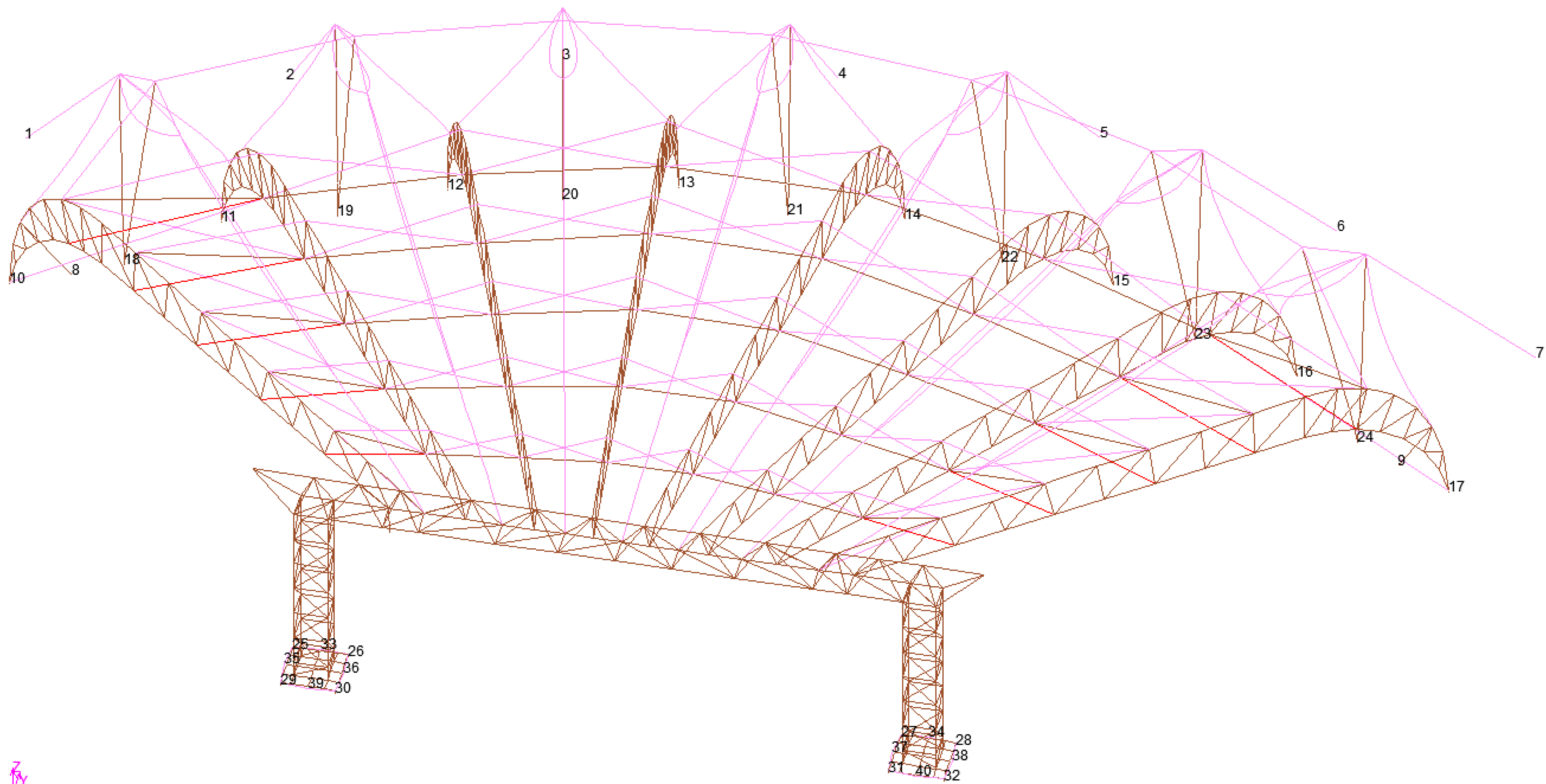


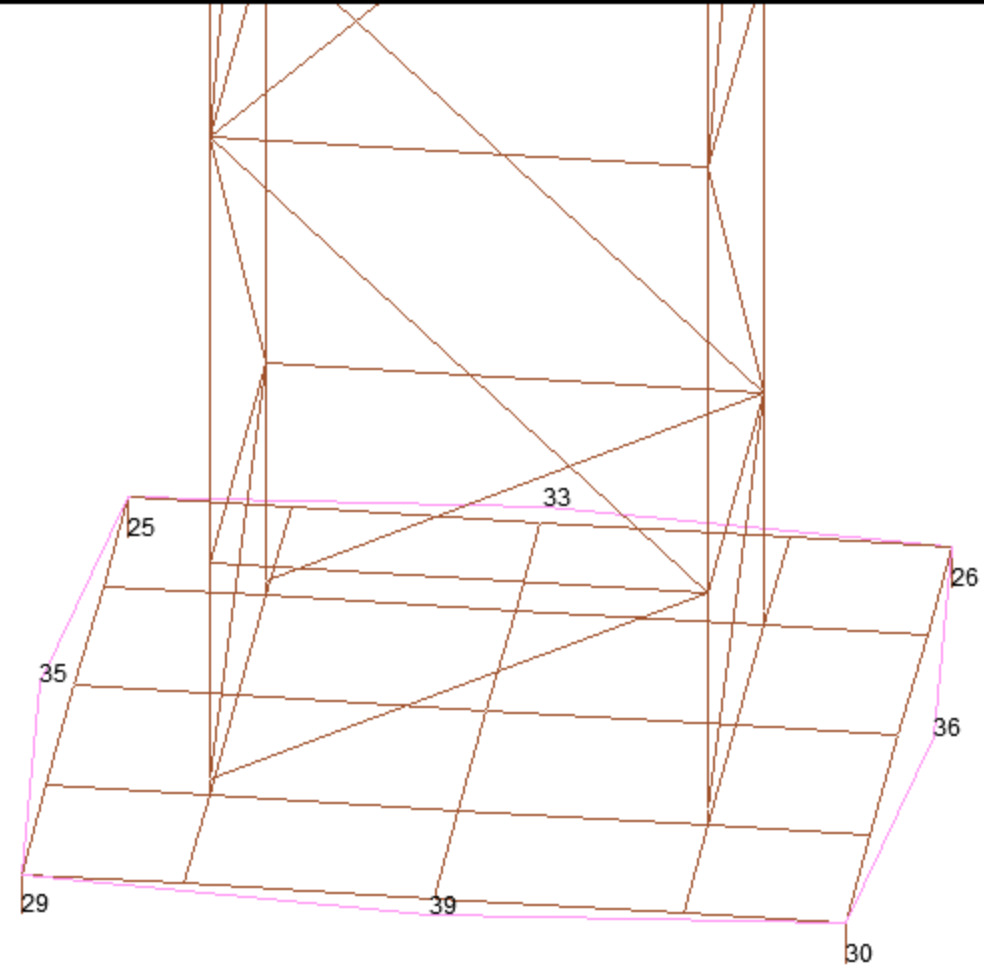
3 TOWER FOUNDATION D
F1 SCALE: NTS

Wayne Rendely PE
132 Columbia Street
Huntington Station NY
FL PE # 56461
Expires: 2/28/19

4				
3				
2				
1				
0	11/12/18	PRELIMINARY DESIGN - FOR REVIEW	WRPE	
REV	DATE	DESCRIPTION	BY	
BIG SPAN STRUCTURES LLC				
DRAWN BY:		PROJECT:		
WRPE		POMPANO BEACH AMPHITHEATRE POMPANO BEACH, FLORIDA		
DATE:		DESCRIPTION:		
NOV 2018		PRELIMINARY FOUNDATION LAYOUT		
SCALE:		ENGINEER APPROVAL:		1 OF
NTS		DATE:		F1
FILE NO.		CUSTOMER APPROVAL:		
000000		DATE:		
LAYOUT:				
PLAN & ELEV.				









12. Certificate of Insurance



BIGSPAN-01

SEARFOSSA

CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY)

12/13/2018

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

IMPORTANT: If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must have ADDITIONAL INSURED provisions or be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

PRODUCER Insurance Office of America, Inc. 1855 West State Road 434 Longwood, FL 32750	CONTACT NAME:		
	PHONE (A/C, No, Ext): (800) 243-6899	FAX (A/C, No): (407) 788-7933	
INSURED Big Span Structures, LLC 1566 N. Meadowcrest Blvd. Crystal River, FL 34429	E-MAIL ADDRESS:		
	INSURER(S) AFFORDING COVERAGE		NAIC #
	INSURER A : Admiral Insurance Company		24856
	INSURER B : Commerce and Industry Insurance Company		19410
	INSURER C : American Builders Insurance Company (f/k/a Association Insuranc		11240
	INSURER D :		
INSURER E :			
INSURER F :			

COVERAGES

CERTIFICATE NUMBER:

REVISION NUMBER:

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR	TYPE OF INSURANCE	ADDL INSD	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS	
A	☒ COMMERCIAL GENERAL LIABILITY ☐ CLAIMS-MADE ☒ OCCUR GEN'L AGGREGATE LIMIT APPLIES PER: ☐ POLICY ☒ PROJECT ☐ LOC OTHER:	X	X	CA000023630-03	03/02/2018	03/02/2019	EACH OCCURRENCE \$ 1,000,000	
							DAMAGE TO RENTED PREMISES (Ea occurrence) \$ 150,000	
							MED EXP (Any one person) \$	
							PERSONAL & ADV INJURY \$ 1,000,000	
	AUTOMOBILE LIABILITY ☐ ANY AUTO OWNED AUTOS ONLY ☐ SCHEDULED AUTOS ☐ HIRED AUTOS ONLY ☐ NON-OWNED AUTOS ONLY						GENERAL AGGREGATE \$ 2,000,000	
							PRODUCTS - COMP/OP AGG \$ 2,000,000	
							EMPLOYEE BENEFIT \$ 1,000,000	
							COMBINED SINGLE LIMIT (Ea accident) \$	
B	☒ UMBRELLA LIAB ☒ EXCESS LIAB ☐ DED ☒ RETENTION \$ 0			EBU043171626	05/11/2018	03/02/2019	BODILY INJURY (Per person) \$	
							BODILY INJURY (Per accident) \$	
							PROPERTY DAMAGE (Per accident) \$	
C	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH) If yes, describe under DESCRIPTION OF OPERATIONS below	Y/N Y	N/A	X	WCV021840002	06/01/2018	06/01/2019	PER STATUTE ☒ OTH-ER ☐
								E.L. EACH ACCIDENT \$ 1,000,000
								E.L. DISEASE - EA EMPLOYEE \$ 1,000,000
								E.L. DISEASE - POLICY LIMIT \$ 1,000,000

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required)

Certificate Holder is Additional Insured with respect to General Liability when required by written contract, per form #CG2010 04/13.

Waiver of Subrogation with respect to General Liability, when required by written contract per form # CG2404 05/09 and with respect to Workers'

Compensation, when required by written contract per form# WC000313 4/84.

Hired and Non-Owned Auto Liability included \$1,000,000 Each Occurrence.

CERTIFICATE HOLDER

CANCELLATION

CITY OF POMPANO BEACH PURCHASING OFFICE 1190 N.E. 3RD AVENUE, Building C (front) Pompano Beach, FL 33060	SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.
	AUTHORIZED REPRESENTATIVE



CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY)

8/29/2018

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

IMPORTANT: If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

PRODUCER Prosurance Brokerage Associates Inc. 420 Lexington Avenue Suite 2700 New York NY 10170	CONTACT NAME: David Kumm PHONE (A/C, No, Ext): (212) 693-1550 FAX (A/C, No): (212) 406-0924 E-MAIL ADDRESS: dkumm@proredinsure.com														
INSURED Wayne Rendely PE 132 Columbia Street Huntington Station NY 11746-1220	<table><tr><th>INSURER(S) AFFORDING COVERAGE</th><th>NAIC #</th></tr><tr><td>INSURER A: Travelers Casualty Ins Co of</td><td>19046</td></tr><tr><td>INSURER B:</td><td></td></tr><tr><td>INSURER C:</td><td></td></tr><tr><td>INSURER D:</td><td></td></tr><tr><td>INSURER E:</td><td></td></tr><tr><td>INSURER F:</td><td></td></tr></table>	INSURER(S) AFFORDING COVERAGE	NAIC #	INSURER A: Travelers Casualty Ins Co of	19046	INSURER B:		INSURER C:		INSURER D:		INSURER E:		INSURER F:	
INSURER(S) AFFORDING COVERAGE	NAIC #														
INSURER A: Travelers Casualty Ins Co of	19046														
INSURER B:															
INSURER C:															
INSURER D:															
INSURER E:															
INSURER F:															

COVERAGES**CERTIFICATE NUMBER: MASTER COI****REVISION NUMBER:**

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR	TYPE OF INSURANCE	ADDL INSD	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS
	COMMERCIAL GENERAL LIABILITY ☐ CLAIMS-MADE ☐ OCCUR GEN'L AGGREGATE LIMIT APPLIES PER: ☐ POLICY ☐ PRO-JECT ☐ LOC ☐ OTHER:						EACH OCCURRENCE \$ DAMAGE TO RENTED PREMISES (Ea occurrence) \$ MED EXP (Any one person) \$ PERSONAL & ADV INJURY \$ GENERAL AGGREGATE \$ PRODUCTS - COMP/OP AGG \$ \$
	AUTOMOBILE LIABILITY ☐ ANY AUTO ☐ ALL OWNED AUTOS ☐ SCHEDULED AUTOS ☐ HIRED AUTOS ☐ NON-OWNED AUTOS						COMBINED SINGLE LIMIT (Ea accident) \$ BODILY INJURY (Per person) \$ BODILY INJURY (Per accident) \$ PROPERTY DAMAGE (Per accident) \$ \$
	UMBRELLA LIAB ☐ OCCUR EXCESS LIAB ☐ CLAIMS-MADE DED ☐ RETENTION \$ ☐						EACH OCCURRENCE \$ AGGREGATE \$ \$
	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH) If yes, describe under DESCRIPTION OF OPERATIONS below ☐ Y / ☐ N ☐ N / A						☐ PER STATUTE ☐ OTH-ER E.L. EACH ACCIDENT \$ E.L. DISEASE - EA EMPLOYEE \$ E.L. DISEASE - POLICY LIMIT \$
A	DESIGN PROFESSIONAL LIABILITY INSURANCE			105355491	10/6/2017	10/6/2018	\$1,000,000 Per Claim \$2,000,000 Annual Aggregate

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required)

All Projects

CERTIFICATE HOLDER**CANCELLATION**

Big Span Structures
1566 N. Meadowcrest Blvd
Attn: Rick Laxton
Crystal River, FL 34429

SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.

AUTHORIZED REPRESENTATIVE

RSC Ins. Brokerage/D *RSC Insurance Brokerage Inc.*

© 1988-2014 ACORD CORPORATION. All rights reserved.



13. Big Span Fabrication Facilities

www.bigspans.com



BIG SPAN
STRUCTURES

ABOUT US

Big Span Structures offers concept-to-completion, highly customized: design, engineering, manufacturing, fabrication, and installation solutions for: tensile cable, frame supported, and air supported fabric-clad structures with a customer-focused service model. Big Span's Executive Management Team brings over a century of combined, highly-specialized knowledge & experience to the table. With a diverse skill set and collaborative, service-driven management style, Big Span Structures is uniquely positioned to outpace its competitors in the design and development of lightweight spanning structures, from the most basic to the highest levels of complexity.

In our 40-year history, Big Span has successfully installed over 500,000,000 ft² of structures globally. These range from sports complexes and stadiums to: cultural venues, hangars, amphitheaters, containment facilities, industrial complexes, shopping centers, hotels, commercial buildings, and a wide variety of architectural accents and upgrades such as facades, umbrellas, and walkways.

In appreciation of the fact that the best business investments are made in human capital and capabilities, Big Span employs a mixed staff of full-time employees and independent contractors, about 200 strong, with backgrounds, educations, and experiences from a multitude of different fields. We understand that experts must also be perpetual students in our field, therefore Big Span's concept and design team are constantly researching the latest market trends and familiarizing ourselves with cutting-edge techniques. As a result, Big Span's creative capability and state-of-the-art materials and techniques assure that we are completely unbound by conventional rules of geometry for self-supporting structures. What this means for Big Span's customers is that, as we often say, "If you can imagine it, we can bring it to life."

TENSILE CABLE STRUCTURES

Tensile cable construction has risen to capture a significant market share in a very short time; and is rapidly becoming the preferred method among many of today's top architects. Tensile cable construction, bound only by the designer's imagination, is capable of taking on any shape, form, curvature, color, or span for total conformity to the designer's aesthetic preferences.



FRAME SUPPORTED BUILDINGS

Frame Supported structures are the most robust, and offer the highest degrees of resistance to the elements of any of our commercial structures. This product is capable of enduring the harshest environmental punishment, and can readily conform to the most extreme engineering requirements you may have.

Amphitheaters

Big Span has had great success in providing concept-to-completion solutions for the new construction, refurbishment, and replacement of Amphitheater structures in both the private and public sectors. Having developed and honed a vast proprietary arsenal of fully-customizable designs, materials, and techniques specifically for the amphitheater market space, Big Span is uniquely qualified to deliver comprehensive results exclusively tailored to your individual architectural tastes, acoustic preferences, and structural design requirements. Contact us today to experience a deeper understanding of harmonious collaboration as Big Span's amphitheater design team works with you to bring your imagination to life.

Hangars

Hangars Big Span's adept team of design principals and project managers have successfully designed, engineered, fabricated, and installed multiple aircraft hangars of varying styles and material compositions for applications from large commercial and passenger jets to light-weight, deployable, radar-ablative hangars for military aircraft to temporary and permanent wing / tail maintenance enclosures.

Optimized Installations

Big Span designs and fabricates all of our rigid space frame systems utilizing highly specialized engineering techniques to optimize efficiency in terms of the time, manpower, and equipment required to complete the bolt-up installation process. Whether your design requirements call for a standard planar space frame or a dramatic, visually-striking rolled arched showpiece, Big Span's world-class designers and engineers are uniquely equipped to deliver streamlined solutions that are ready to use in as little time, with the smallest expenditure of resources possible.

AIR SUPPORTED STRUCTURES

Air-supported structures offer significant cost savings and drastic reductions in production and installation periods versus traditional construction methods. Far from "tents," these amazing buildings can be engineered to meet or exceed any wind or snow loads required by U.S. code. Additional flexibility in the air-supported design is found in its ability to be made into either permanent or movable / re-deployable structures. Big Span's proprietary technology in this sector allows us to produce air-supported structures in less time, with superior structural capabilities than our competitors.

Exhibition Halls and Conventions

Big Span air-supported structures are a natural fit for mobile or permanent exhibition, trade, and convention center facilities. There truly is no more cost-effective or time-efficient means of enclosing a large area and keeping hundreds or even thousands of people comfortable and engaged than a Big Span air-supported structure.

Sports Facilities

The first installation of an air supported multi-sports facility took place at Harvard University in 1968. The size of the structure demanded the incorporation of a basic stress-relief strap system to add strength and flexibility to both the fabric and membrane. Polyester straps were eventually replaced with steel aircraft cables; and the configuration was re-designed into various degrees of bias grid patterns. This provides total encapsulation of the fabric membrane, eliminates the potential for tear propagation, and exponentially increases load-bearing capacity. With these and many other design advancements, the groundwork was set for air-supported structures as we know them today. Currently, Big Span utilizes state-of-the-art materials and mechanical components for levels of safety and structural integrity that are unmatched by any of our competitors.

Construction Domes

Perhaps no one can better appreciate the costly nature of weather-related interruption and shutdowns on a working jobsite than a contractor. Whether pouring a residential concrete foundation or managing a large-scale commercial construction project, shut-downs erode profits quickly, create dissent among workers, contribute to late completion penalties, and are (thanks to Big Span's air-supported structures) completely unnecessary and 100% avoidable now and for the future. Perhaps no one can better appreciate the costly nature of weather-related interruption and shutdowns on a working jobsite than a contractor.

Our air supported structures have become the product of choice and preferred solution for a growing number of construction and project management companies in a host of different countries. The savings generated by continuous operation more than off-set the investment in a Big Span construction dome, usually by the end of the first project.



OUR FABRIC WORKSHOP



OUR STEEL WORKSHOP





Big Span Structures LLC.
1566 N. Meadowcrest Blvd
Crystal River, FL. 34429

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