101 Murray Street, New York, NY

Peer-review Report
Phase I (Foundation)

Rosenwasser/Grossman Consulting Engineers, P.C.

February, 2015

Prepared for

Henry V Murray Senior LLC

Fisher Brothers Management

Prepared by

Ben Pimentel, PE

Sunghwa Han, PE, SE, LEED AP

Ben Pimentel hereby certifies that I have performed the peer review in accordance with the New York City Building Code and requirements set forth therein.

Name: Ben Pimentel

License No.: 086645

101 Murray Street, New York, NY

Peer-review Report
Phase I (Foundation)

Rosenwasser/Grossman Consulting Engineers, P.C.

February, 2015

Prepared for

Henry V Murray Senior LLC

Fisher Brothers Management

Prepared by

Ben Pimentel, PE

Sunghwa Han, PE, SE, LEED AP

Ben Pimentel hereby certifies that I have performed the peer review in accordance with the New York City Building Code and requirements set forth therein.

Name: Ben Pimentel

License No.: 086645

Table of Contents

1.1 Executive Summary

The proposed building will be located at the site two blocks North from One World Trade Center. The site is approximately 31,000 ft^2 and the proposed building is designed to be a 836 ft tall residential tower consisting of 62 floors above grade and one level below grade with an enlarged floor plan.

The site is bordered by Murray Street and West Street. A 32 story tall 89-Murray Street building resting on pile foundation is located on the north/east side of the project site. Currently the site is occupied by a 2-10 story building with one level of basement. Based on the currently available information, this on-site existing building seems to be supported by a concrete tapered-pile-tip pile (TPT) with a minimum design capacity of 150 ton.

Rosenwasser/Grossman Consulting Engineers P.C. was retained by the owner to provide a peer review based on the New York City building Code 2008 Section BC 1627. Our peer review is divided into two phases; 1) Review of the foundation design and 2) Review of the super-structure. The clients request these two phases review to accommodate the construction schedule. At the phase I (Review of foundation), overall performance of the structure, adequacy of the estimated design loads and the selected design criteria, appropriate interpretation of geo-technical engineering report and the wind tunnel testing report, and overall performance of structural members which directly anchor to the foundation are reviewed. Design of the remaining structural members will be reviewed at the following phase II (Review of super structure).

It shall be noted that Rosenwasser/Grossman Consulting Engineers P.C states its own opinion as a peer reviewer regarding the design provided by the engineer of record. The structural engineer of record shall retain sole responsibility for the structural design of the entire building.

Structural analysis models which were originally prepared by the engineer of record were reviewed. For our peer-review, modifications were made on the analysis models received from the engineer of record. Also we have built our analysis model for review of the current foundation design. Accumulated axial loads for columns and shear walls are independently checked. The representative structural members were checked using the results obtained from the modified analysis model. Code compliance of the design according to the New York City Building Code 2008 section 1627.6.1 for foundation is summarized in the checklist (See appendix A).

Below is the list of information Rosenwasser/Grossman Consulting Engineers P.C received from the engineer of record for our peer-review.

< References >

1. Structural drawings dated October 31, 2014.
2. Geo-technical engineering report prepared by Langan Engineering dated February 21, 2014.
3. Site-specific seismic study report prepared by Langan Engineering dated May 5, 2014.
4. Caisson capacity calculations prepared by Langan Engineering dated January 23, 2015.
5. Final wind tunnel testing report for structural loads prepared by CPP Inc. dated December 2014.

1.2. Design Criteria

1.2.1. Design Code and References

- New York City Building Code 2008
- ACI 318-02 Building Code Requirements for Structural Concrete

1.2.2 Design loads

1.2.2.1 Gravity loads

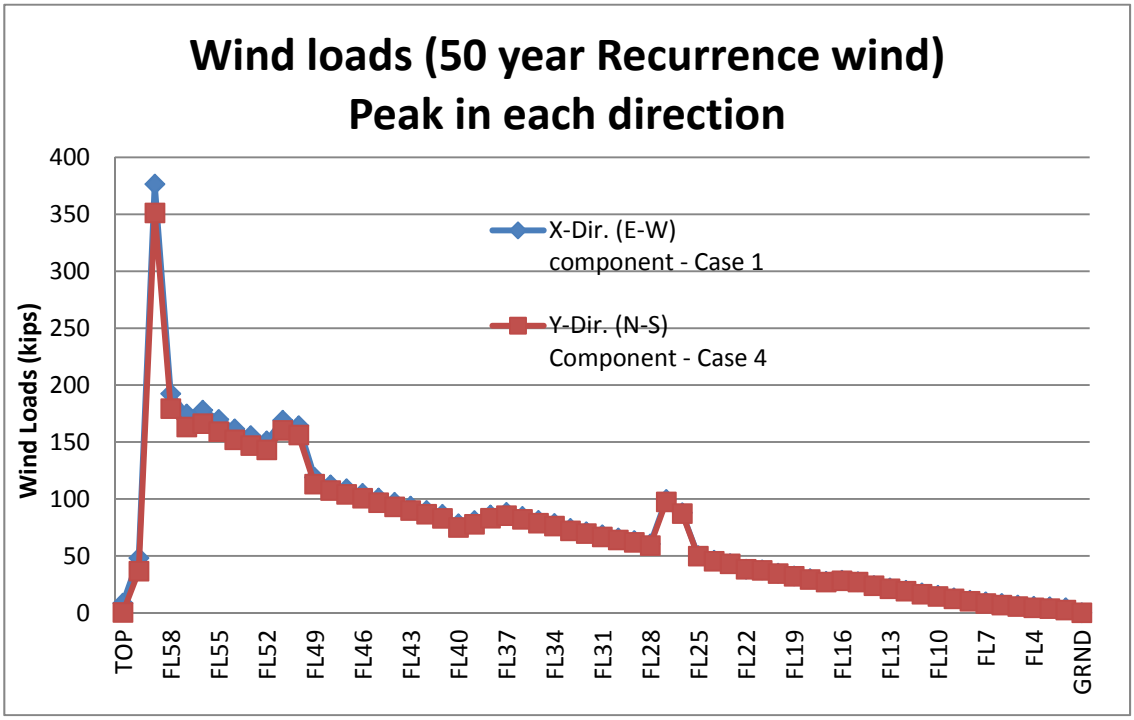
Typical floors (Lower/Mid) for residential units - 12 inch thick flat plate				
	Superimposed dead load	:	25	psf
	Live load	:	40	psf
Typical floors (Top) for residential units - 16 inch thick flat plate				
	Superimposed dead load	:	50	psf
	Live load	:	100	psf
Mechanical floors (2nd, 26th 50th) - 12 inch thick flat plate				
	Superimposed dead load	:	50	psf
	Live load	:	100	psf
Ground floor (Lobby and Retail) - 12 inch thick flat plate				
	Superimposed dead load	:	50	psf
	Live load	:	100	psf

Main Roof (59th floor) - 16 inch thick flat plate				
	Superimposed dead load	:	50	psf
	Live load	:	400	psf
60th floor (Sloshing damper is located) - 18 inch thick flat plate				
	Superimposed dead load	:	100	psf
	Live load	:	300	psf

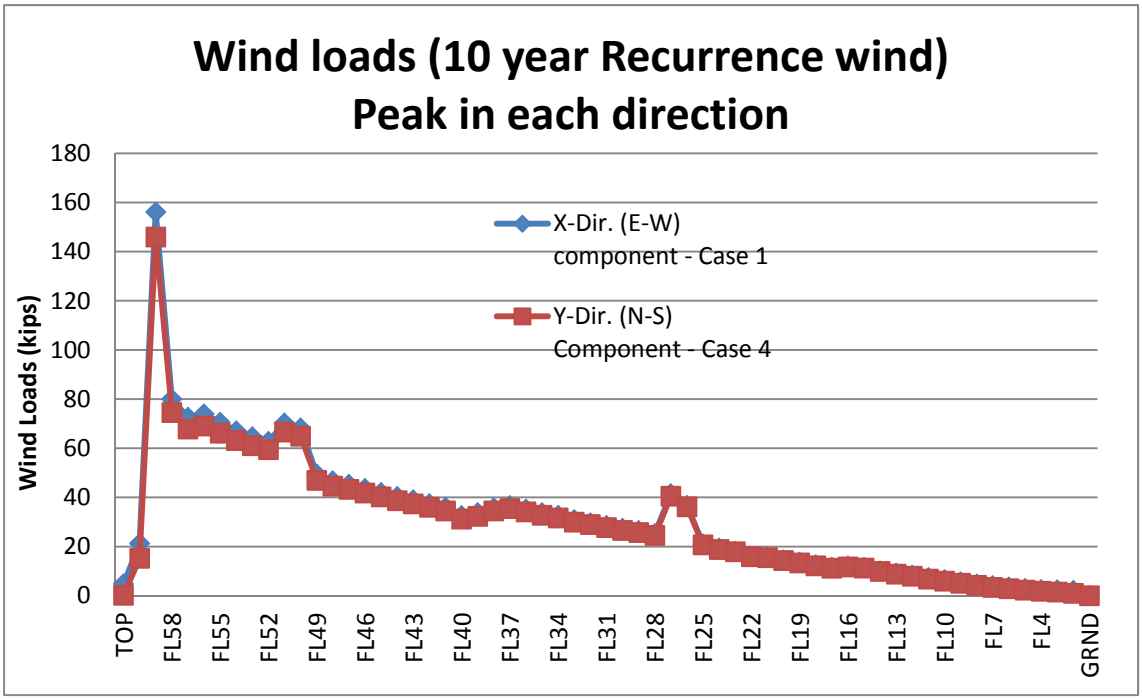
1.2.2.2 Wind Loads

Wind loads are estimated from the wind tunnel testing.

- Basic Wind Speed for New York City: 98mph measured at 33 ft above ground as a 3 second gust (Based on local wind climate with annual probability with 0.02, 50 year mean recurrence interval)
- Importance Factor: I=1.0 (Structural Occupancy Category II)
- Assumed damping ratio:
  - 2% of critical damping for estimation of structural loads.
  - 2% / 4% / 6% of critical damping for estimation of accelerations assuming that a building will be equipped with a supplementary damping system.
- Design wind loads for 50 year recurrence wind (wind tunnel testing)
  - Maximum wind loads in E-W direction: 4588 kips (From wind load case 1)
  - Maximum wind loads in N-S direction: 4364 kips (From wind load case 4)



- Design wind loads for 10 year recurrence wind (wind tunnel testing)
  - Maximum wind loads in E-W direction: 1915 kips (From wind load case 1)
  - Maximum wind loads in N-S direction: 1814 kips (From wind load case 4)



1.2.2.3 Seismic Loads

- Site: New York City (S_S= 0.365 g, : S_1 = 0.071 g)
- Seismic Use Group I (Occupancy category II)
- Based on an initial geotechnical investigation of the site soil condition, the site class was preliminarily determined to be site class D (F_a = 1.51 & F_v= 2.4). The site-specific seismic study indicates that the design spectrum for the site is lower than the code minimum which is 80% of the design spectrum for the site class D.
- Importance Factor: I=1.0 (Seismic use group I)
- Load Resisting System: Bearing system consisting of ordinary reinforced concrete shear walls
- Response Modification Factor: R=4.0
- System Over-strength Factor: Ω_o=2.5
- Deflection Amplification Factor: C_d=4.0
- Design spectrum determined from the site-specific seismic study
  - Spectral acceleration at short period (S_{DS}): 0.32g
  - Spectral acceleration at 1 second period (S_{D1}): 0.09 g
- Seismic Design Category: For the recommended design spectrum (See above for S_{DS} and S_{D1}) and seismic use group I, the seismic design category is defined to be B.
- Seismic Base Shear: 112,700 kips x 0.01 (Minimum Seismic loads) = 1,127 kips
  - Approximate fundamental period: $Ta = Ct\ (hn)^x = 0.02 \times 836^{(0.75)} = 3.1$ sec
  - Upper limit on building period: Cu x T = 1.7 x 3.1 = 5.27 sec
  - Effective seismic building weight: Approximately 112,700 kips including weight of mechanical equipment (Seismic weight in consideration of weight of an actual supplementary damping system shall be rechecked for the final design)
  - Seismic Response Coefficient Cs

    S_{DS} = 0.294g (From Table below)

    S_{D1} = 0.091g (From Table below)

    Cs min = 0.044 x S_{DS} x I = 0.044 x 0.294 x 1.0 = 0.013

    Cs max = S_{D1}/(T x R/I) = 0.091 / (3.1x 4.0 / 1.0) = 0.0073

    Cs = S_{DS}/(R/I) = 0.294/ (4.0/1.0) = 0.00735

    C_{min} = 0.01 (Traditionally considered lower bound of the seismic loads is 1 % of the seismic weight)

As per NYCBC 1615.2.5

		Recommended Spectral Acceleration - Code Minimum Lower Bound (To be used for design)	
SDS	1) Sa at T=0.2 sec	0.294 g	**S_{DS} = 0.294 g**
	2) Sa (max.)	0.294 g	**> (80% of S_{DS} = 0.8 x 0.367 g**
	3) 90% Sa (max)	0.265 g	**= 0.2936 g)**
SD1	1) Sa at T=1 sec	0.091 g	**S_{D1}= 0.091 g**
	2) Sa at T=2 sec	0.045 g	**> (80% of S_{D1} = 0.8 x 0.114 g**
	3) 2 x Sa at T=2 sec	0.090 g	**= 0.0912 g)**

- Analysis procedure: Modal response spectrum analysis

1.3 Structural System

1.3.1 Gravity Load Resisting System

Typically 12 inch / 16 inch thick flat plate supported by cast-in-place concrete columns and shear walls was utilized to resist the gravity loads.

1.3.2 Lateral Load Resisting System

- Wind loads: Flat plate (12 inch thick / 16 inch thick) and the core shear walls in conjunction with full height outrigger beams connected to the four exterior columns at the mid height (26th floor) and the top of the building (50th floor) are utilized to resist the wind loads.
- Seismic loads: Core shear walls in conjunction with full height outrigger beams connected to the four exterior columns at the mid height (26th floor) and the top of the building (50th floor) are utilized to resist the seismic loads.

1.4 Foundation system

1.4.1 Deep foundation

It is recommended to use drilled caissons as the foundation system to support the large column loads and minimize the impact on the adjacent structures. These drilled caissons will be socketed into the rock layer found approximately 90 ft below the existing ground level.

Under the tower portion, the shear walls and two exterior columns are supported on 36 inches diameter caissons with a 96 inch thick caisson cap. The columns outside of the tower section are relatively lightly loaded and are supported on smaller diameter caissons.

< Estimated capacity of caissons provided by Langan Engineering - Refer to "Caisson Capacity Calculations" dated January 23, 2015 >

Caisson Type	Allowable Capacity of Caissons		
	Vertical Compression	Vertical Tension	Lateral Capacity
36 inch Diameter	3000 tons (6000 kips)	700 tons (1400 kips)	37 ton (74 kips)
18 inch Diameter	500 tons (1000 kips)	250 tons (500 kips)	11 tons (22 kips)

To ensure the lateral capacity of caisson used for design, it is recommended to perform filed load testing based on correlating free-hand capacity of the caisson to substantiate the fixed end head lateral load capacity. Since fixed- head condition was assumed during evaluation of the lateral capacity of caissons (74 kips), caisson head connection in caisson cap shall be designed as a fixed-head condition.

1.4.2 Lowest level structural slab

The geo-technical engineering report indicates that 1 in 100 year flood elevation is at EL. EL +9.35' MBPD (EL. +11' NAVD88). For slab at the lowest level (Top of Slab at EL. -4'- 2" MBPD), 20 inch thick structural slab is designed to support hydrostatic pressure associated with 1 % chance flood elevation (EL. +9.35 Manhattan Borough President's Datum). Rock anchors (1-7/8 inch diameter, Grade150 steel threaded rebar) with a 250 kips of uplift capacity is recommended to be used to resist uplift force.

1.5 Design of structural members

1.5.1 Columns and Shear walls: Adequacy of size of column and shear walls are directly anchored into caisson cap is reviewed. The rest of columns and shear walls will be reviewed at the next phase.

1.5.1.1 Columns

- Axial loads for columns were calculated for review of foundation design. See Appendix B "Sample Calculation Sheet" for detail.

1.5.1.2 Shear walls

- Axial loads for shear walls were calculated for review of foundation design. See Appendix B "Sample Calculation Sheet" for detail.

1.5.2 Caissons and Caisson cap supporting shear walls and two exterior columns

- Layout of 36 inch diameter caissons is reviewed. See Appendix B "Sample Calculation Sheet" for detail.
- The required capacity of caissons specified on the foundation drawings is compared with the analysis results based on the modified analysis model. See Appendix B "Sample Calculation Sheet" for detail.
- For the review of the 96 inch thick caisson cap design and the required caisson loads, an analysis model was independently built using a FEM analysis program. Caissons are modelled as columns with two characteristic restraints (a compression only point spring (24000 k/in) and tension only spring (6000 k/in)).

1.5.3 Cellar floor structural slab

The top of the lowest level floor slab (cellar floor slab) is at EL. -4.17' MBPD (EL. -2.52' NAVD88) and the 1-in-100 year flood elevation is estimated to be at EL. 9.35' MBPD (EL +11.0' NAVD88). The slab is supported on the caisson caps and designed for 1375 lb/ft^2 of hydrostatic pressure.

1.5.4 Foundation walls

Typically 14 inch thick foundation walls are designed to support the lateral soil pressure, the hydrostatic pressure, and a surcharge from the sidewalk. A portion of the North foundation wall (adjacent to the 32 story tall existing building) was designed to be 16 inches thick to accommodate the additional loads due to a taller story height.

2.1 Summary of relevant engineering investigation

2.1.1 Geo-technical engineering report

A review of the site information and an investigation of subsurface conditions were conducted by Langan Engineering. Below is the summary of their findings and recommendations as stated in the geo-technical investigation report, the site-specific seismic study report, and the caisson capacity calculations.

- A deep foundation system consisting of drilled caissons (36 inch diameter caissons supporting the tower portion and 18 inch diameter caissons supporting the enlarged base below grade) socketed into rock is recommended to support columns and shear walls. Field testing is required to confirm the required capacity of caissons (Lateral and uplift).
- Lowest level floor slab can be designed as a structural slab supported by caisson caps to resist the gravity loads and hydrostatic pressure based on the design flood elevation.

- Rock anchors (250 kips of uplift capacity) can be used to provide resistance for uplift due to hydrostatic pressure.
- Foundation settlements shall be less than 1 inch and differential settlements shall be less than ¾ inch.
- Structure needs to be designed for hydrostatic pressure associated with the 1% chance of flood elevation at EL. +9.35 MBPD (11 NAVD88).
- Monitoring of the adjacent existing structures and sidewalk is recommended during excavation and construction of foundation.
- Pre-construction condition documentation is recommended to be performed for the adjacent, existing structures to remain.
- Test pits are recommended to be performed to identify type and location of the existing piles for the on-site existing building.
- Special inspection as per NYCBC.

2.1.2 Wind tunnel testing report

Wind forces and moments for use in designing of the structural system for the building were determined from HFB (High-Frequency-Force Balance Method) by CPP. Below is the summary of their findings and recommendations stated in the wind tunnel testing report dated December, 2014.

- Wind-induced forces and moments based on a 50 year recurrence wind and 10 year recurrence wind are provided for design and serviceability check respectively. For each event, ten load cases in consideration of wind directionality and structural dynamic properties are provided.
- The final wind tunnel testing report indicated that wind tunnel testing was done on multiple surrounding configurations. For design, the final wind loads are provided for the configuration A including the existing nearby buildings (For detail, refer to the wind tunnel testing report).
- The wind tunnel testing report indicated that the 10 year peak accelerations for the building with a 2% of critical damping exceeded the commonly acceptable range for residential buildings. It is recommended to incorporate a supplementary damping system to lower the acceleration below 18-20 mg.

3.1 Reviewer's opinion

Rosenwasser/Grossman Consulting Engineers, P.C. has completed the peer review of the foundation design documents prepared by the engineer of record, Desimone Consulting Engineers. As per the client's request, we have reviewed the foundation design as the first

phase of our peer review in conjunction with a review of the overall behavior of the building as it would affect the foundation design.

During our peer-review, it was found that there is an alternative interpretation in the classification of the basic-seismic-force-resisting system for the building. We believe that the seismic force resisting system for the proposed building should be categorized as a bearing system consisting of ordinary reinforced concrete shear walls, since the majority of the gravity loads is resisted by shear walls. This change of the seismic-force-resisting system categorization increases the base shear. However, the wind loads are significantly larger than the seismic loads even with the changed basic-seismic-force-resisting system. Drifts due to the seismic loads are still within an acceptable range and design of the structural members is governed by the wind loads. This discrepancy in category of the basic- seismic-force-resisting system for the building will be further discussed in our phase II peer-review.

It is our opinion that the current foundation design seems to comply with the building design codes and the standard of care except for the areas mentioned in this report.

Appendix A. Code compliance check list

Peer Review (Foundation design only) – Code Compliance Check List as per NYCBC BC section 1627.6.1 Scope of the structural peer review

Item	Referenced Code section	Referenced document	Detail	Remarks (Code compliance)	
1. Design Loads					
1) Gravity loads	NYC BC 1607 Table 1607.1	Loading Schedule on Dwg. S-001		√	
2) Wind loads	NYCBC BC 1609	• Wind design data on Dwg. S-001 • Final wind tunnel testing report (dated December 2014)	The design wind loads are provided by CPP from the wind tunnel testing	√	
3) Seismic loads	NYCBC BC 1609	Seismic design data on Dwg. S-001			• Correction on the category of the basic seismic-force-resisting system is required. Accordingly, response modification factor (R), system over-strength factor (Ωo), and deflection amplification factor (Cd) need to be revised • Base shear for the seismic load needs to be

Peer Review (Foundation design only) – Code Compliance Check List as per NYCBC BC section 1627.6.1 Scope of the structural peer review

Item	Referenced Code section	Referenced document	Detail	Remarks (Code compliance)	
					revised.
4) Soil lateral loads	NYCBC BC 1610	• Geotechnical report dated February 21, 2014	Geo-technical engineering report indicates that equivalent lateral soil pressure at rest is based on soil unit weight of 125 pcf and lateral earth pressure coefficient (Ko) of 0.5 and a design flood (1-in-100 year) ground water elevation is at El. +9.35 MBPD (EL +11 NAVD88)	√	
2. Structural Design Criteria and Assumptions					
1) Serviceability					
A. Lateral displacement		Structural drawings	• Story drift due to wind loads: As confirmed by the engineer of record, 10 year recurrence wind loads were used to estimate story drift for evaluation of serviceability. According to our study, story drift at the critical floor deems acceptable • Story drift due to earthquake loads: less than 0.02hn (maxim allowable story drift for seismic use group I/Bearing system	√	• Story drift criteria (hn/400 at 10 year recurrence wind) used for design can be acceptable, as long as non-structural elements such as cladding and components, partitions and mechanical equipment are properly designed to accommodate this estimated building

Peer Review (Foundation design only) – Code Compliance Check List as per NYCBC BC section 1627.6.1 Scope of the structural peer review

Item	Referenced Code section	Referenced document	Detail	Remarks (Code compliance)	
			using ordinary reinforced concrete shear walls)		movement
B. Perception to motion	ISO criteria (these criteria are chosen by the wind tunnel testing lab)		• Wind tunnel testing results based on 2% of critical damping indicated excessive accelerations. • CPP (wind tunnel testing lab) recommends installation of a supplementary damping system to reduce accelerations to improve tenants' perception to motion.	√	• Final design of a damper needs to be completed and a supporting system of a damper needs to be incorporated into the final design of the structure
2) Analysis	NYCBC BC section 1604.4	Structural drawings	• A computer analysis model prepared by the engineer of record is reviewed and necessary modifications are made for our peer review • As a part of phase I peer review, overall behavior of the structure and internal forces at members (columns and shear walls below ground level) directly anchored to foundation were reviewed and compared with the original	√	

Peer Review (Foundation design only) – Code Compliance Check List as per NYCBC BC section 1627.6.1 Scope of the structural peer review

Item	Referenced Code section	Referenced document	Detail	Remarks (Code compliance)	
			design		
3) Anchorage to foundation	NYCBC BC section 1604.8	• Lower cellar Foundation plan (Dwg. S-FO-101) • Foundation pile cap details (Dwg. S-FO-104) • Cellar Plan / foundation Plan (Dwg. S-FO-102) • Foundation: Tower Core Mat Bottom /Top Reinforcement Part Plan (Dwg. FO-105 & 106) • Foundation sections and details (Dwg. FO-111)	• Axial loads at shear walls and columns were independently calculated from base (foundation) to top (main roof) • Reinforcing of shear walls at the lowest level is reviewed	√	
4) Lateral displacement capacity of slab-	NYCBC BC section 21.11.5				• To be checked at phase II

Peer Review (Foundation design only) – Code Compliance Check List as per NYCBC BC section 1627.6.1 Scope of the structural peer review

Item	Referenced Code section	Referenced document	Detail	Remarks (Code compliance)	
column connection not to contribute lateral resistance					
3. Conformity of structural design with engineering investigation					
1) Geo-technical engineering report		• Structural drawings • Geotechnical report dated February 21, 2014 • Site-specific seismic study report dated May 5, 2014 • Caisson capacity calculations dated January 23, 2015			
A. Stability of the adjacent buildings		• Lower cellar Foundation plan (Dwg. S-FO-101)	• It is recommended to use a closed sheeting system extended to sand level as a ground water cut-off along the	√	

Peer Review (Foundation design only) – Code Compliance Check List as per NYCBC BC section 1627.6.1 Scope of the structural peer review

Item	Referenced Code section	Referenced document	Detail	Remarks (Code compliance)	
		• Cellar Plan / foundation Plan (Dwg. S-FO-102) • Foundation sections and details (DWg. S-FO-108)	street sides. For the North/East side of the site where the adjacent existing building (80 Murray Street) is located, it is recommended to use stiff cast-in-place excavation support system.		
B. Deep footings-Caissons		• Dwg. S-001 General notes • Lower cellar/ Foundation plan (Dwg. FO-101) • Cellar plan/ Foundation plan (Dwg. FO-102)	• Reaction at each caisson is reviewed for the various load combinations including dead loads, live loads, wind loads, and seismic loads. (For details, see Appendix B)	√	
C. Ground water level and waterproofing			• Design ground water level is assumed to be at EL +9.35 (BPMD) • Waterproofing (foundation walls and cellar floor structural slab) is called for on structural drawings	√	

Peer Review (Foundation design only) – Code Compliance Check List as per NYCBC BC section 1627.6.1 Scope of the structural peer review

Item	Referenced Code section	Referenced document	Detail	Remarks (Code compliance)	
D. Additional investigation & protection of adjacent and on-site structure			• Geo-technical engineers recommend to do test pit prior to construction for information of size/location of piles and conditions of the existing footings for the adjacent buildings and on-site existing building		
E. Protection of adjacent and on-site structures			• Construction induced vibrations shall be monitored within the adjacent buildings and sidewalk during demolition, excavation, and foundation construction • Pre-construction condition documentation is recommended to be performed for the adjacent, existing structures to remain.		
F. Uplift			• Rock anchors are recommended to resist uplift if necessary.	√	Rock anchors (1-7/8 inch diameter, Grade150 steel threaded rebar) with a 250

Peer Review (Foundation design only) – Code Compliance Check List as per NYCBC BC section 1627.6.1 Scope of the structural peer review

Item	Referenced Code section	Referenced document	Detail	Remarks (Code compliance)	
					kips of uplift capacity are used for design of the cellar floor structural slab
2) **Wind tunnel testing report**					
			• Wind forces and moments are based on a 50 year/10 year recurrence wind. Ten wind load cases in consideration of directionality of wind and structural dynamic properties of the building are provided • The wind tunnel testing report indicated that the 10 year peak accelerations for the building with a 2% of critical damping ratio exceed the commonly acceptable range for residential buildings. It is recommended to incorporate a supplementary damping system to lower the acceleration below 18 or 20		

Peer Review (Foundation design only) – Code Compliance Check List as per NYCBC BC section 1627.6.1 Scope of the structural peer review

Item	Referenced Code section	Referenced document	Detail	Remarks (Code compliance)	
			mili-g.		
4. Complete load path					
1) Gravity loads		Structural drawings	• Gravity loads are resisted by cast-in-place flat plate (horizontal elements) and cast-in-place columns and shear walls (vertical elements).	√	Load path for the gravity loads is complete
2) Wind loads		Structural drawings	• Wind loads are transferred to shear walls by rigid diaphragm (typically 12”/16” thick flat plate) • Lateral load resisting system consists of flat plate (12 inch thick / 16 inch thick) and the core shear walls in conjunction with full height outrigger beams connected to the four exterior columns at the mid height (26th floor) and the top of the building (50th floor) • Ground floor was assumed to be the base for the lateral loads	√	Load path for the wind loads is complete
3) Seismic loads		Structural drawings	• Seismic loads are transferred to shear walls by rigid diaphragm	√	Load path for the seismic loads is complete

Peer Review (Foundation design only) – Code Compliance Check List as per NYCBC BC section 1627.6.1 Scope of the structural peer review

Item	Referenced Code section	Referenced document	Detail	Remarks (Code compliance)	
			(typically 12”/16” thick flat plate) • Lateral load resisting system consists of core shear walls in conjunction with full height outrigger beams connected to the four exterior columns at the mid height (26th floor) and the top of the building (50th floor) • Ground floor was assumed to be the base for the lateral loads		
4) Soil lateral load	NYCBC BC 1610	Ground floor framing plan and cellar floor framing plan	• Support condition of foundation walls at floors (ground floor and cellar floor) is reviewed	√	Load path for the soil lateral load is complete
5. Design of members	NYCBC BC 1627.6.2	Structural drawings	• Representative structural elements (flat plate at one typical floor, shear walls, columns, link beams, independent footing, mat foundation and foundation walls) to be checked based on the results from our analysis.		
1) Flat plate		• Dwg. Floor framing plan	• Adequacy of slab thickness and reinforcing is reviewed		Actual design (reinforcing) To be checked at phase II

Peer Review (Foundation design only) – Code Compliance Check List as per NYCBC BC section 1627.6.1 Scope of the structural peer review

Item	Referenced Code section	Referenced document	Detail	Remarks (Code compliance)	
2) Shear wall		• Shear wall rebar plans	• Reinforcing at shear walls supporting ground floor and cellar floor is reviewed		Rest of shear walls to be checked at phase II
3) Columns			• Reinforcing at Column 1 through 7 at the lower levels is reviewed		The final review will be done at phase II
4) Link Beams					To be checked at phase II
5) Transfer Beams					To be checked at phase II
6) Caisson cap supporting shear walls and columns		• Lower cellar Foundation plan (Dwg. S-FO-101) • Foundation pile cap details (Dwg. S-FO-104) • Cellar Plan / foundation Plan (Dwg. S-FO-102) • Foundation: Tower Core Mat Bottom /Top Reinforcement Part	• Adequacy of layout of caissons is reviewed. • Adequacy of the specified caisson capacity is reviewed. • Adequacy of thickness and reinforcement of caisson cap is reviewed.	√	• See Appendix B. sample calculation sheets for details.

Peer Review (Foundation design only) – Code Compliance Check List as per NYCBC BC section 1627.6.1 Scope of the structural peer review

Item	Referenced Code section	Referenced document	Detail	Remarks (Code compliance)	
		Plan (Dwg. FO-105 & 106) • Foundation sections and details (Dwg. FO-111)			
7) Structural slab at sub-cellar floor		• Lower cellar Foundation plan (Dwg. S-FO-101) • Cellar Plan / foundation Plan (Dwg. S-FO-102)	Design of 20 inch thick structural slab is reviewed	√	• See Appendix B. sample calculation sheets for details.
6. Performance-specified structural components					To be reviewed at phase II
1) Supplementary damping system					To be reviewed at phase II
2) Cladding					To be reviewed at phase II
7. Structural Integrity					To be reviewed at phase II
1) Prescriptive requirement	NYCBC BC 1625				

Peer Review (Foundation design only) – Code Compliance Check List as per NYCBC BC section 1627.6.1 Scope of the structural peer review

Item	Referenced Code section	Referenced document	Detail	Remarks (Code compliance)	
A. Continuity and ties					To be reviewed at phase II
• Slab reinforcing	NYCBC BC 1917.2.1				To be reviewed at phase II
• Peripheral ties	NYCBC BC 1917.2.2				To be reviewed at phase II
• Horizontal ties	NYCBC BC 1917.2.3				To be reviewed at phase II
• Vertical ties	NYCBC BC 1917.2.4				To be reviewed at phase II
B. Lateral bracing	NYCBC BC 1625.3				To be reviewed at phase II
C. Vehicular impact	NYCBC BC 1625.5				To be reviewed at phase II
8. General conformance of structural plans with architectural plans					To be reviewed at phase II
9. Major mechanical items					To be reviewed at phase II

Peer Review (Foundation design only) – Code Compliance Check List as per NYCBC BC section 1627.6.1 Scope of the structural peer review

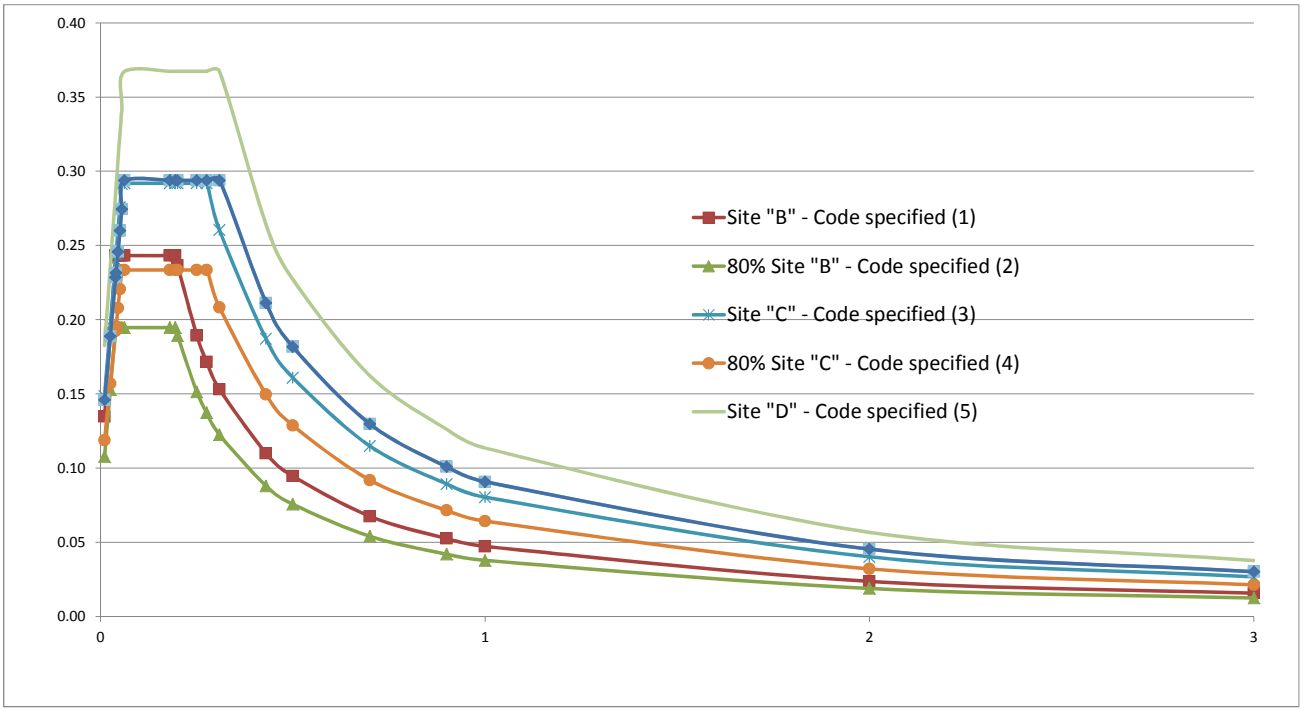
Item	Referenced Code section	Referenced document	Detail	Remarks (Code compliance)	
1) Water tank					
2) Emergency generator					
3) Cooling tower					
4) Fuel oil tank					
5) Supplementary damping system					
10. General completeness of structural drawings					To be reviewed at phase II

Appendix B. Sample calculation sheets

101 Murray Street, New York, NY 2/12/2015

Site Class B			Site Class C			Site Class D		
Ss	0.365	g	Ss	0.365	g	Ss	0.365	g
S1	0.071	g	S1	0.071	g	S1	0.071	g
Site Class	B		Site Class	C		Site Class	D	
	Fa	1		Fa	1.2		Fa	1.51
	Fv	1		Fv	1.7		Fv	2.4
SDs	0.243	g	SDs	0.292	g	SDs	0.367	g
SD1	0.047	g	SD1	0.080	g	SD1	0.114	g
To	0.039	sec	To	0.055	sec	To	0.062	sec
Ts	0.195	sec	Ts	0.276	sec	Ts	0.309	sec

Periods (sec)	Site "B"		Site "C"		Site "D"		Site Specifc Analysis	
	Site "B" - Code specified (1)	80% Site "B" - Code specified (2)	Site "C" - Code specified (3)	80% Site "C" - Code specified (4)	Site "D" - Code specified (5)	80% Site "D" - Code specified (6)	Actual Spectral accelerations (7)	Recommended Spectral accelerations (8)
0.01	0.135	0.108	0.149	0.119	0.183	0.146		0.146
0.025	0.191	0.153	0.196	0.157	0.236	0.189		0.189
0.0389	0.243	0.195	0.240	0.192	0.286	0.229		0.229
0.04	0.243	0.195	0.244	0.195	0.290	0.232		0.232
0.045	0.243	0.195	0.260	0.208	0.307	0.246		0.246
0.05	0.243	0.195	0.276	0.221	0.325	0.260		0.260
0.055	0.243	0.195	0.292	0.233	0.343	0.274		0.274
0.0618	0.243	0.195	0.292	0.234	0.367	0.294		0.294
0.18	0.243	0.195	0.292	0.234	0.367	0.294		0.294
0.1945	0.243	0.195	0.292	0.234	0.367	0.294		0.294
0.2	0.237	0.189	0.292	0.234	0.367	0.294		0.294
0.25	0.189	0.151	0.292	0.234	0.367	0.294		0.294
0.2756	0.172	0.137	0.292	0.234	0.367	0.294		0.294
0.309	0.153	0.123	0.260	0.208	0.367	0.294		0.294
0.43	0.110	0.088	0.187	0.150	0.264	0.211		0.211
0.5	0.095	0.076	0.161	0.129	0.227	0.182		0.182
0.7	0.068	0.054	0.115	0.092	0.162	0.130		0.130
0.9	0.053	0.042	0.089	0.072	0.126	0.101		0.101
1	0.047	0.038	0.080	0.064	0.114	0.091		0.091
2	0.024	0.019	0.040	0.032	0.057	0.045		0.045
3	0.016	0.013	0.027	0.021	0.038	0.030		0.030
Remarks								



Column Axial Load

Project : 101 Murray Street

DATE: Jan 20, 2015

Column 1

FL.	STORY HEIGHT (ft)	EQUIV.SECT AREA (in2) (B)	(D)	SLAB THK. (in)	TRIBUTARY AREA Floor (ft2)	Accum (ft2)	Floor (m2)	ADD. Dead Load (kips)	ADD. Live Load (kips)	K Element Factor	DSTRB. LOAD SDL (lb/ft2)	LL (lb/ft2)	DEAD LOAD COLMN (kips)	SLAB (kips)	LIVE LOAD RED. RED. F.	RED L.L(kips)	WITHOUT LOAD REDUCTION FLOOR LOAD DL (kips)	LL (kips)	SERV.L (kips)	FACT. L (kips)	SUMMATION LOAD DL (kips)	LL (kips)	SERV.L (kips)	FACT. L (kips)	WITH LIVE LOAD REDUCTION FLOOR LOAD DL (kips)	LL (kips)	SERV.L (kips)	FACT. L (kips)	SUMMATION LOAD DL (kips)	LL (kips)	SERV.L (kips)	FACT. L (kips)	FL.	Stress (ksi)	Con. C (ksi)	Ratio
61		0	0	0	0	0	0.0			4	0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	61			
60	14.0	0	0	0	498.4	498.4	46.3	0		4	25	100	0.0	12.5	1.0	49.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	60			
59	14.0	1	907.5	18	498.4	996.8	46.3	8.5		4	300	100	11.8	270.2	1.0	49.8	24.3	49.8	74.1	108.9	24.3	49.8	74.1	108.9	24.3	49.8	74.1	108.9	24	50	74	109	59	0.1	12	1.0%
58	16.3	1	907.5	16	498.4	1495.2	46.3	8.5		4	25	100	14.2	120.6	1.0	49.8	284.3	49.8	334.2	421.0	308.6	99.7	408.3	529.8	284.3	49.8	334.2	421.0	309	100	408	530	58	0.6	12	4.9%
57	14.0	1	907.5	16	498.4	1993.6	46.3	8.5		4	10	100	12.0	113.2	1.0	49.8	132.6	49.8	182.5	238.9	441.2	149.5	590.7	768.7	132.6	49.8	182.5	238.9	441	150	591	769	57	0.8	12	7.1%
56	14.0	1	907.5	16	498.4	2492	46.3	8.5		4	25	100	12.0	120.6	1.0	49.8	125.1	49.8	175.0	229.9	566.4	199.4	765.7	998.6	125.1	49.8	175.0	229.9	566	199	766	999	56	1.1	12	9.2%
55	14.0	1	907.5	16	498.4	2990.4	46.3	8.5		4	25	100	12.0	120.6	1.0	49.8	132.6	49.8	182.5	238.9	699.0	249.2	948.2	1237.5	132.6	49.8	182.5	238.9	699	249	948	1237	55	1.4	12	11.4%
54	12.8	1	907.5	16	498.4	3488.8	46.3	8.5		4	25	100	10.8	120.6	1.0	49.8	131.5	49.8	181.3	237.5	830.5	299.0	1129.5	1475.0	131.5	49.8	181.3	237.5	830	299	1129	1475	54	1.6	12	13.5%
53	11.8	1	907.5	16	498.4	3987.2	46.3	8.5		4	25	100	9.9	120.6	1.0	49.8	130.5	49.8	180.4	236.4	961.0	348.9	1309.9	1711.4	130.5	49.8	180.4	236.4	961	349	1310	1711	53	1.9	12	15.7%
52	11.8	1	907.5	16	498.4	4485.6	46.3	8.5		4	25	100	9.9	120.6	1.0	49.8	130.5	49.8	180.4	236.4	1091.5	398.7	1490.2	1947.8	130.5	49.8	180.4	236.4	1092	399	1490	1948	52	2.1	12	17.9%
51	11.8	28	40	16	491.2	4976.8	45.6	8.5		4	25	100	12.2	119.0	1.0	49.1	132.8	49.8	182.7	239.2	1224.3	448.6	1672.9	2186.9	132.8	49.8	182.7	239.2	1224	449	1673	2187	51	2.0	12	16.3%
50	12.6	28	40	16	491.2	5468	45.6	8.5		4	25	100	13.2	119.0	1.0	49.1	132.2	49.1	181.3	237.2	1356.5	497.7	1854.2	2424.1	132.2	49.1	181.3	237.2	1357	498	1854	2424	50	2.2	12	18.0%
49	13.6	28	40	12	491.2	5959.2	45.6	8.5		4	25	100	14.7	94.5	1.0	49.1	133.7	49.1	182.9	239.1	1490.3	546.8	2037.1	2663.2	133.7	49.1	182.9	239.1	1490	547	2037	2663	49	2.4	12	19.8%
48	11.6	28	40	12	491.2	6450.4	45.6	8.5		4	25	100	12.4	94.5	1.0	49.1	106.9	49.1	156.0	206.8	1597.1	595.9	2193.1	2870.0	106.9	49.1	156.0	206.8	1597	596	2193	2870	48	2.6	12	21.4%
47	11.6	28	40	12	491.2	6941.6	45.6	8.5		4	25	100	12.4	94.5	1.0	49.1	106.9	49.1	156.0	206.8	1704.0	645.0	2349.0	3076.9	106.9	49.1	156.0	206.8	1704	645	2349	3077	47	2.7	12	22.9%
46	11.6	28	40	12	491.2	7432.8	45.6	8.5		4	25	100	12.4	94.5	1.0	49.1	106.9	49.1	156.0	206.8	1810.9	694.2	2505.0	3283.7	106.9	49.1	156.0	206.8	1811	694	2505	3284	46	2.9	12	24.4%
45	11.6	28	40	12	491.2	7924	45.6	8.5		4	25	100	12.4	94.5	1.0	49.1	106.9	49.1	156.0	206.8	1917.7	743.3	2661.0	3490.5	106.9	49.1	156.0	206.8	1918	743	2661	3490	45	3.1	12	26.0%
44	11.6	28	40	12	491.2	8415.2	45.6	8.5		4	25	100	12.4	94.5	1.0	49.1	106.9	49.1	156.0	206.8	2024.6	792.4	2817.0	3697.3	106.9	49.1	156.0	206.8	2025	792	2817	3697	44	3.3	12	27.5%
43	11.6	28	40	12	491.2	8906.4	45.6	8.5		4	25	100	12.4	94.5	1.0	49.1	106.9	49.1	156.0	206.8	2131.4	841.5	2972.9	3904.1	106.9	49.1	156.0	206.8	2131	842	2973	3904	43	3.5	12	29.0%
42	11.6	28	40	12	491.2	9397.6	45.6	8.5		4	25	100	12.4	94.5	1.0	49.1	106.9	49.1	156.0	206.8	2238.3	890.6	3128.9	4111.0	106.9	49.1	156.0	206.8	2238	891	3129	4111	42	3.7	12	30.6%
41	11.6	28	40	12	491.2	9888.8	45.6	8.5		4	25	100	12.4	94.5	1.0	49.1	106.9	49.1	156.0	206.8	2345.1	939.8	3284.9	4317.8	106.9	49.1	156.0	206.8	2345	940	3285	4318	41	3.9	12	32.1%
40	11.6	28	40	12	491.2	10380	45.6	8.5		4	10	100	12.4	87.1	1.0	49.1	106.9	49.1	156.0	206.8	2452.0	988.9	3440.9	4524.6	106.9	49.1	156.0	206.8	2452	989	3441	4525	40	4.0	12	33.7%
39	11.6	28	40	12	491.2	10871	45.6	8.5		4	25	100	12.4	94.5	1.0	49.1	99.5	49.1	148.6	198.0	2551.5	1038.0	3589.5	4722.6	99.5	49.1	148.6	198.0	2551	1038	3589	4723	39	4.2	12	35.1%
38	11.6	28	40	12	977.1	11848	90.8	8.5		4	25	100	12.4	179.5	1.0	97.7	106.9	49.1	156.0	206.8	2658.3	1087.1	3745.5	4929.4	106.9	49.1	156.0	206.8	2658	1087	3745	4929	38	4.4	12	36.7%
37	11.6	28	40	12	977.1	12825	90.8	8.5		4	25	100	12.4	179.5	1.0	97.7	191.9	97.7	289.6	386.6	2850.2	1184.8	4035.1	5316.0	191.9	97.7	289.6	386.6	2850	1185	4035	5316	37	4.7	14	33.9%
36	12.6	28	40	12	977.1	13803	90.8	8.5		4	25	100	13.6	179.5	1.0	97.7	193.1	97.7	290.8	388.0	3043.3	1282.5	4325.8	5704.0	193.1	97.7	290.8	388.0	3043	1283	4326	5704	36	5.1	14	36.4%
35	11.6	28	40	12	977.1	14780	90.8	8.5		4	25	100	12.4	179.5	1.0	97.7	191.9	97.7	289.6	386.6	3235.2	1380.3	4615.4	6090.6	191.9	97.7	289.6	386.6	3235	1380	4615	6091	35	5.4	14	38.8%
34	11.6	28	40	12	977.1	15757	90.8	8.5		4	25	100	12.4	179.5	1.0	97.7	191.9	97.7	289.6	386.6	3427.1	1478.0	4905.0	6477.2	191.9	97.7	289.6	386.6	3427	1478	4905	6477	34	5.8	14	41.3%
33	11.6	28	40	12	977.1	16734	90.8	8.5		4	25	100	12.4	179.5	1.0	97.7	191.9	97.7	289.6	386.6	3618.9	1575.7	5194.6	6863.8	191.9	97.7	289.6	386.6	3619	1576	5195	6864	33	6.1	14	43.8%
32	11.6	28	40	12	977.1	17711	90.8	8.5		4	25	100	12.4	179.5	1.0	97.7	191.9	97.7	289.6	386.6	3810.8	1673.4	5484.2	7250.4	191.9	97.7	289.6	386.6	3811	1673	5484	7250	32	6.5	14	46.2%
31	11.6	28	40	12	977.1	18688	90.8	8.5		4	25	100	12.4	179.5	1.0	97.7	191.9	97.7	289.6	386.6	4002.7	1771.1	5773.8	7637.0	191.9	97.7	289.6	386.6	4003	1771	5774	7637	31	6.8	14	48.7%
30	11.6	28	40	12	977.1	19665	90.8	8.5		4	25	100	12.4	179.5	1.0	97.7	191.9	97.7	289.6	386.6	4194.6	1868.8	6063.4	8023.6	191.9	97.7	289.6	386.6	4195	1869	6063	8024	30	7.2	14	51.2%
29	11.6	46	46	12	977.1	20642	90.8	8.5		4	25	100	23.4	179.5	1.0	97.7	202.9	97.7	300.6	399.8	4397.5	1966.5	6364.0	8423.4	202.9	97.7	300.6	399.8	4398	1967	6364	8423	29	4.0	14	28.4%
28	11.6	46	46	12	977.1	21619	90.8	8.5		4	25	100	23.4	179.5	1.0	97.7	202.9	97.7	300.6	399.8	4600.4	2064.2	6664.6	8823.3	202.9	97.7	300.6	399.8	4600	2064	6665	8823	28	4.2	14	29.8%
27	11.6	46	46	12	977.1	22596	90.8	8.5		4	25	100	23.4	179.5	1.0	97.7	202.9	97.7	300.6	399.8	4803.3	2161.9	6965.3	9223.1	202.9	97.7	300.6	399.8	4803	2162	6965	9223	27	4.4	14	31.1%
26	23.3	46	46	12	977.1	23574	90.8	8.5		4	25	100	49.0	179.5	1.0	97.7	228.5	97.7	326.2	430.6	5031.9	2259.6	7291.5	9653.7	228.5	97.7	326.2	430.6	5032	2260	7292	9654	26	4.6	14	32.6%
25	13.6	46	46	12	977.1	24551	90.8	8.5		4	25	100	27.8	179.5	1.0	97.7	207.3	97.7	305.0	405.1	5239.2	2357.4	7596.5	10058.8	207.3	97.7	305.0	405.1	5239	2357	7597	10059	25	4.8	14	34.0%
24	11.6	46	46	12	977.1	25528	90.8	8.5		4	25	100	23.4	179.5	1.0	97.7	202.9	97.7	300.6	399.8	5442.1	2455.1	7897.2	10458.6	202.9	97.7	300.6	399.8	5442	2455	7897	10459	24	4.9	14	35.3%
23	11.6	46	46	12	977.1	26505	90.8	8.5		4	25	100	23.4	179.5	1.0	97.7	202.9	97.7	300.6	399.8	5645.0	2552.8	8197.8	10858.5	202.9	97.7	300.6	399.8	5645	2553	8198	10858	23	5.1	14	36.7%
22	11.6	46	46	12	977.1	27482	90.8	8.5		4	10	100	23.4	164.8	1.0	97.7	202.9	97.7	300.6	399.8	5847.9	2650.5	8498.4	11258.3	202.9	97.7	300.6	399.8	5848	2650	8498	11258	22	5.3	14	38.0%
21	11.6	46	46	12	977.1	28459	90.8	8.5		4	25	100	23.4	179.5	1.0	97.7	188.3	97.7	286.0	382.2	6036.2	2748.2	8784.4	11640.5	188.3	97.7	286.0	382.2	6036	2748	8784	11641	21	5.5	14	39.3%
20	11.6	46	46	12	977.1	29436	90.8	8.5		4	25	100	23.4	179.5	1.0	97.7	202.9	97.7	300.6	399.8	6239.1	2845.9	9085.0	12040.4	202.9	97.7	300.6	399.8	6239	2846	9085	12040	20	5.7	14	40.6%
19	11.6	46	46	12	977.1	30413	90.8	8.5		4	25	100	23.4	179.5	1.0	97.7	202.9	97.7	300.6	399.8	6442.0	2943.6	9385.6	12440.2	202.9	97.7	300.6	399.8	6442	2944	9386	12440	19	5.9	14	42.0%
18	11.6	46	46	12	977.1	31390	90.8	8.5		4	25	100	23.4	179.5	1.0	97.7	202.9	97.7	300.6	399.8	6644.9	3041.3	9686.2	12840.0	202.9	97.7	300.6	399.8	6645	3041	9686	12840	18	5.9	14	42.0%
17	11.6	46	46	12	977.1	32367	90.8	8.5		4	25	100	23.4	179.5	1.0	97.7	202.9	97.7	300.6	399.8	6847.8	3139.0	9986.9	13239.8	202.9	97.7	300.6	399.8	6848	3139	9987	13240	17	6.3	14	42.0%
16	11.6	46	46	12	977.1	33345	90.8	8.5		4	25	100	23.4	179.5	1.0	97.7	202.9	97.7	300.6	399.8	7050.7	3236.7	10287.5	13639.7	202.9	97.7	300.6	399.8	7051	3237	10287	13640	16	6.4	14	42.0%
15	11.6	50	50	12	977.1	34322	90.8	8.5		4	25	100	27.7	179.5	1.0	97.7	207.2	97.7	304.9	404.9	7257.9	3334.5	10592.4	14044.6	207.2	97.7	304.9	404.9	7258	3334	10592	14045	15	5.6	14	42.0%
14	11.6	50	50	12	977.1	35299	90.8	8.5		4	25	100	27.7	179.5	1.0	97.7	207.2	97.7	304.9	404.9	7465.1	3432.2	10897.2	14449.5	207.2	97.7	304.9	404.9	7465	3432	10897	14450	14	5.6	14	42.0%
13	11.6	50	50	12	977.1	36276	90.8	8.5		4	25	100	27.7	179.5	1.0	97.7	207.2	97.7	304.9	404.9	7672.2	3529.9	11202.1	14854.5	207.2	97.7	304.9	404.9	7672	3530	11202	14854	13	5.9	14	42.0%
12	11.6	50	50	12	977.1	37253	90.8	8.5		4	25	100	27.7	179.5	1.0	97.7	207.2	97.7	304.9	404.9	7879.4	3627.6	11507.0	15259.4	207.2	97.7	304.9	404.9	7879	3628	11507	15259	12	6.1	14	42.0%
11	11.6	50	50	12	950.1	38203	88.3	8.3		4	25	100	27.7	174.6	1.0	95.0	207.2	97.7	304.9	404.9	8086.6	3725.3	11811.8	15664.3	207.2	97.7	304.9	404.9	8087	3725	11812	15664	11	6.3	14	42.0%
10	11.6	50	50	12	950.1	39153	88.3	8.3		4	25	100	27.7	174.6	1.0	95.0	202.2	95.0	297.2	394.7	8288.8	3820.3	12109.1	16059.0	202.2	95.0	297.2	394.7	8289	3820	12109	16059	10	6.3	14	42.0%
9	14.0	50	50	12	950.1	40103	88.3	8.3		4	25	100	33.9	174.6	1.0	95.0	208.4	95.0	303.4	402.1	8497.2	3915.3	12412.5	16461.2	208.4	95.0	303.4	402.1	8497	3915	12413	16461	9	6.6	14	42.0%
8	11.6	50	50	12	950.1	41053	88.3	8.3		4	25	100	27.7	174.6	1.0	95.0	202.2	95.0	297.2	394.7	8699.5	4010.3	12709.8	16855.9	202.2	95.0	297.2	394.7	8699	4010	12710	16856	8	6.7	14	42.0%
7	11.6	50	50	12	950.1	42003	88.3	8.3		4	25	100	27.7	174.6	1.0	95.0	202.2	95.0	297.2	394.7	8901.7	4105.3	13007.0	17250.6	202.2	95.0	297.2	394.7	8902	4105	13007	17251	7	6.9	14	42.0%
6	11.6	50	50	12	950.1	42954	88.3	8.3		4	25	100	27.7	174.6	1.0	95.0	202.2	95.0	297.2	394.7	9103.9	4200.3	13304.3	17645.3	202.2	95.0	297.2	394.7	9104	4200	13304	17645	6	6.9	14	42.0%
5	11.6	50	50	12	950.1	43904	88.3	8.3		4	25	100	27.7	174.6	1.0	95.0	202.2	95.0	297.2	394.7	9306.2	4295.4	13601.5	18040.0	202.2	95.0	297.2	394.7	9306	4295	13602	18040	5	7.2	14	42.0%
4	11.6	50	50	12	950.1	44854	88.3	8.3		4	10	100	27.7	160.3	1.0	95.0	202.2	95.0	297.2	394.7	9508.4	4390.4	13898.8	18434.7	202.2	95.0	297.2	394.7	9508	4390	13899	18435	4	7.4	14	42.0%
3	11.6	50	50	12	950.1	45804	88.3	8.3		4	10	100	27.7	160.3	1.0	95.0	188.0	95.0	283.0	377.6	9696.4	4485.4	14181.8	18812.3	188.0	95.0	283.0	377.6	9696	4485	14182	18812	3	7.5	14	42.0%
2	21.0	50	50	12	950.1	46754	88.3	8.3		4	25	100	52.1	174.6	1.0	95.0	212.4	95.0	307.4	406.9	9908.8	4580.4	14489.2	19219.1	212.4	95.0	307.4	406.9	9909	4580	14489	19219	2	7.5	14	42.0%
1	30.0	50	50	12	950.1	47704	88.3	8.3		4	25	100	75.5	174.6	1.0	95.0	250.1	95.0	345.1	452.1	10158.9	4675.4	14834.3	19671.3	250.1	95.0	345.1	452.1	10159	4675	14834	19671	1	7.9	14	42.0%
Cellar (parki	16.2	50	50	12	916.3	48620	85.1			4	25	100	39.5	160.4	1.0	91.6	214.1	95.0	309.1	408.9	10372.9	4770.4	15143.3	20080.2	214.1	95.0	309.1	408.9	10373	4770	15143	20080	parking)	8.0	14	42.0%
																													10373	**4770**	**15143**	**20080**				
																													DL	**LL**	**SERV.L**	**FACT. L**				

* Sub-cellar floor slab is structural slab

*Load including lowest level slab

Column Axial Load

Project : 101 Murray Street

DATE: Jan 20, 2015

Column 2

FL.	STORY HEIGHT (ft)	EQUIV.SECT AREA (in2) (B)	(D)	SLAB THK. (in)	TRIBUTARY AREA Floor (ft2)	Accum (ft2)	Floor (m2)	ADD. Dead Load (kips)	ADD. Live Load (kips)	K Element Factor	DSTRB. LOAD SDL (lb/ft2)	LL (lb/ft2)	DEAD LOAD COLMN (kips)	SLAB (kips)	LIVE LOAD RED. RED. F.	RED L.L(kips)	WITHOUT LOAD REDUCTION FLOOR LOAD DL (kips)	LL (kips)	SERV.L (kips)	FACT. L (kips)	SUMMATION LOAD DL (kips)	LL (kips)	SERV.L (kips)	FACT. L (kips)	WITH LIVE LOAD REDUCTION FLOOR LOAD DL (kips)	LL (kips)	SERV.L (kips)	FACT. L (kips)	SUMMATION LOAD DL (kips)	LL (kips)	SERV.L (kips)	FACT. L (kips)	FL.	Stress (ksi)	Con. C (ksi)	Ratio
61		0	0	0	0	0	0.0			4	0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	61			
60	14.0	0	0	0	476.8	476.8	44.3	0		4	25	100	0.0	11.9	1.0	47.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	60			
59	14.0	1	907.5	16	476.8	953.6	44.3	8.1		4	300	100	12.0	246.5	1.0	47.7	23.9	47.7	71.6	105.0	23.9	47.7	71.6	105.0	23.9	47.7	71.6	105.0	24	48	72	105	59	0.1	12	1.0%
58	16.3	1	907.5	16	476.8	1430.4	44.3	8.1		4	25	100	14.2	115.4	1.0	47.7	260.7	47.7	308.4	389.1	284.6	95.4	379.9	494.1	260.7	47.7	308.4	389.1	285	95	380	494	58	0.5	12	4.5%
57	14.0	1	907.5	16	476.8	1907.2	44.3	8.1		4	10	100	12.0	108.2	1.0	47.7	127.4	47.7	175.0	229.1	411.9	143.0	555.0	723.2	127.4	47.7	175.0	229.1	412	143	555	723	57	0.8	12	6.6%
56	14.0	1	907.5	16	476.8	2384	44.3	8.1		4	25	100	12.0	115.4	1.0	47.7	120.2	47.7	167.9	220.5	532.1	190.7	722.8	943.7	120.2	47.7	167.9	220.5	532	191	723	944	56	1.0	12	8.7%
55	14.0	1	907.5	16	476.8	2860.8	44.3	8.1		4	25	100	12.0	115.4	1.0	47.7	127.4	47.7	175.0	229.1	659.5	238.4	897.9	1172.8	127.4	47.7	175.0	229.1	659	238	898	1173	55	1.3	12	10.8%
54	12.8	1	907.5	16	476.8	3337.6	44.3	8.1		4	25	100	10.8	115.4	1.0	47.7	126.2	47.7	173.9	227.7	785.7	286.1	1071.8	1400.6	126.2	47.7	173.9	227.7	786	286	1072	1401	54	1.5	12	12.9%
53	11.8	1	907.5	16	476.8	3814.4	44.3	8.1		4	25	100	9.9	115.4	1.0	47.7	125.3	47.7	172.9	226.6	911.0	333.8	1244.7	1627.2	125.3	47.7	172.9	226.6	911	334	1245	1627	53	1.8	12	14.9%
52	11.8	1	907.5	16	476.8	4291.2	44.3	8.1		4	25	100	9.9	115.4	1.0	47.7	125.3	47.7	172.9	226.6	1036.2	381.4	1417.7	1853.8	125.3	47.7	172.9	226.6	1036	381	1418	1854	52	2.0	12	17.0%
51	11.8	28	40	16	474.3	4765.5	44.1	7.9		4	25	100	12.2	114.6	1.0	47.4	127.6	47.7	175.3	229.4	1163.8	429.1	1592.9	2083.2	127.6	47.7	175.3	229.4	1164	429	1593	2083	51	1.9	12	15.5%
50	12.6	28	40	16	474.3	5239.8	44.1	7.9		4	25	100	13.2	114.6	1.0	47.4	127.8	47.4	175.2	229.2	1291.6	476.6	1768.1	2312.4	127.8	47.4	175.2	229.2	1292	477	1768	2312	50	2.1	12	17.2%
49	13.6	28	40	12	474.3	5714.1	44.1	7.9		4	25	100	14.7	90.9	1.0	47.4	129.3	47.4	176.8	231.1	1420.9	524.0	1944.9	2543.5	129.3	47.4	176.8	231.1	1421	524	1945	2543	49	2.3	12	18.9%
48	11.6	28	40	12	474.3	6188.4	44.1	7.9		4	25	100	12.4	90.9	1.0	47.4	103.3	47.4	150.7	199.8	1524.2	571.4	2095.7	2743.3	103.3	47.4	150.7	199.8	1524	571	2096	2743	48	2.4	12	20.4%
47	11.6	28	40	12	474.3	6662.7	44.1	7.9		4	25	100	12.4	90.9	1.0	47.4	103.3	47.4	150.7	199.8	1627.5	618.8	2246.4	2943.2	103.3	47.4	150.7	199.8	1628	619	2246	2943	47	2.6	12	21.9%
46	11.6	28	40	12	474.3	7137	44.1	7.9		4	25	100	12.4	90.9	1.0	47.4	103.3	47.4	150.7	199.8	1730.8	666.3	2397.1	3143.0	103.3	47.4	150.7	199.8	1731	666	2397	3143	46	2.8	12	23.4%
45	11.6	28	40	12	474.3	7611.3	44.1	7.9		4	25	100	12.4	90.9	1.0	47.4	103.3	47.4	150.7	199.8	1834.1	713.7	2547.8	3342.9	103.3	47.4	150.7	199.8	1834	714	2548	3343	45	3.0	12	24.9%
44	11.6	28	40	12	474.3	8085.6	44.1	7.9		4	25	100	12.4	90.9	1.0	47.4	103.3	47.4	150.7	199.8	1937.4	761.1	2698.6	3542.7	103.3	47.4	150.7	199.8	1937	761	2699	3543	44	3.2	12	26.4%
43	11.6	28	40	12	474.3	8559.9	44.1	7.9		4	25	100	12.4	90.9	1.0	47.4	103.3	47.4	150.7	199.8	2040.7	808.6	2849.3	3742.6	103.3	47.4	150.7	199.8	2041	809	2849	3743	43	3.3	12	27.8%
42	11.6	28	40	12	474.3	9034.2	44.1	7.9		4	25	100	12.4	90.9	1.0	47.4	103.3	47.4	150.7	199.8	2144.0	856.0	3000.0	3942.4	103.3	47.4	150.7	199.8	2144	856	3000	3942	42	3.5	12	29.3%
41	11.6	28	40	12	474.3	9508.5	44.1	7.9		4	25	100	12.4	90.9	1.0	47.4	103.3	47.4	150.7	199.8	2247.3	903.4	3150.7	4142.3	103.3	47.4	150.7	199.8	2247	903	3151	4142	41	3.7	12	30.8%
40	11.6	28	40	12	474.3	9982.8	44.1	7.9		4	10	100	12.4	83.8	1.0	47.4	103.3	47.4	150.7	199.8	2350.6	950.9	3301.5	4342.1	103.3	47.4	150.7	199.8	2351	951	3301	4342	40	3.9	12	32.3%
39	11.6	28	40	12	474.3	10457	44.1	7.9		4	25	100	12.4	90.9	1.0	47.4	96.2	47.4	143.6	191.3	2446.8	998.3	3445.1	4533.4	96.2	47.4	143.6	191.3	2447	998	3445	4533	39	4.0	12	33.7%
38										4	25	100	0.0	0.0	0.0	0.0	90.9	47.4	138.3	185.0	2537.7	1045.7	3583.4	4718.4	90.9	47.4	138.3	185.0	2538	1046	3583	4718	38		12	
37										4	25	100	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2537.7	1045.7	3583.4	4718.4	0.0	0.0	0.0	0.0	2538	1046	3583	4718	37		14	
36										4	25	100	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2537.7	1045.7	3583.4	4718.4	0.0	0.0	0.0	0.0	2538	1046	3583	4718	36		14	
35										4	25	100	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2537.7	1045.7	3583.4	4718.4	0.0	0.0	0.0	0.0	2538	1046	3583	4718	35		14	
34										4	25	100	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2537.7	1045.7	3583.4	4718.4	0.0	0.0	0.0	0.0	2538	1046	3583	4718	34		14	
33										4	25	100	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2537.7	1045.7	3583.4	4718.4	0.0	0.0	0.0	0.0	2538	1046	3583	4718	33		14	
32										4	25	100	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2537.7	1045.7	3583.4	4718.4	0.0	0.0	0.0	0.0	2538	1046	3583	4718	32		14	
31										4	25	100	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2537.7	1045.7	3583.4	4718.4	0.0	0.0	0.0	0.0	2538	1046	3583	4718	31		14	
30										4	25	100	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2537.7	1045.7	3583.4	4718.4	0.0	0.0	0.0	0.0	2538	1046	3583	4718	30		14	
29										4	25	100	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2537.7	1045.7	3583.4	4718.4	0.0	0.0	0.0	0.0	2538	1046	3583	4718	29		14	
28										4	25	100	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2537.7	1045.7	3583.4	4718.4	0.0	0.0	0.0	0.0	2538	1046	3583	4718	28		14	
27										4	25	100	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2537.7	1045.7	3583.4	4718.4	0.0	0.0	0.0	0.0	2538	1046	3583	4718	27		14	
26										4	25	100	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2537.7	1045.7	3583.4	4718.4	0.0	0.0	0.0	0.0	2538	1046	3583	4718	26		14	
25										4	25	100	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2537.7	1045.7	3583.4	4718.4	0.0	0.0	0.0	0.0	2538	1046	3583	4718	25		14	
24										4	25	100	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2537.7	1045.7	3583.4	4718.4	0.0	0.0	0.0	0.0	2538	1046	3583	4718	24		14	
23										4	25	100	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2537.7	1045.7	3583.4	4718.4	0.0	0.0	0.0	0.0	2538	1046	3583	4718	23		14	
22										4	10	100	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2537.7	1045.7	3583.4	4718.4	0.0	0.0	0.0	0.0	2538	1046	3583	4718	22		14	
21										4	25	100	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2537.7	1045.7	3583.4	4718.4	0.0	0.0	0.0	0.0	2538	1046	3583	4718	21		14	
20										4	25	100	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2537.7	1045.7	3583.4	4718.4	0.0	0.0	0.0	0.0	2538	1046	3583	4718	20		14	
19										4	25	100	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2537.7	1045.7	3583.4	4718.4	0.0	0.0	0.0	0.0	2538	1046	3583	4718	19		14	
18										4	25	100	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2537.7	1045.7	3583.4	4718.4	0.0	0.0	0.0	0.0	2538	1046	3583	4718	18		14	
17										4	25	100	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2537.7	1045.7	3583.4	4718.4	0.0	0.0	0.0	0.0	2538	1046	3583	4718	17		14	
16										4	25	100	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2537.7	1045.7	3583.4	4718.4	0.0	0.0	0.0	0.0	2538	1046	3583	4718	16		14	
15										4	25	100	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2537.7	1045.7	3583.4	4718.4	0.0	0.0	0.0	0.0	2538	1046	3583	4718	15		14	
14										4	25	100	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2537.7	1045.7	3583.4	4718.4	0.0	0.0	0.0	0.0	2538	1046	3583	4718	14		14	
13										4	25	100	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2537.7	1045.7	3583.4	4718.4	0.0	0.0	0.0	0.0	2538	1046	3583	4718	13		14	
12										4	25	100	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2537.7	1045.7	3583.4	4718.4	0.0	0.0	0.0	0.0	2538	1046	3583	4718	12		14	
11										4	25	100	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2537.7	1045.7	3583.4	4718.4	0.0	0.0	0.0	0.0	2538	1046	3583	4718	11		14	
10										4	25	100	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2537.7	1045.7	3583.4	4718.4	0.0	0.0	0.0	0.0	2538	1046	3583	4718	10		14	
9										4	25	100	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2537.7	1045.7	3583.4	4718.4	0.0	0.0	0.0	0.0	2538	1046	3583	4718	9		14	
8										4	25	100	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2537.7	1045.7	3583.4	4718.4	0.0	0.0	0.0	0.0	2538	1046	3583	4718	8		14	
7										4	25	100	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2537.7	1045.7	3583.4	4718.4	0.0	0.0	0.0	0.0	2538	1046	3583	4718	7		14	
6										4	25	100	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2537.7	1045.7	3583.4	4718.4	0.0	0.0	0.0	0.0	2538	1046	3583	4718	6		14	
5										4	25	100	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2537.7	1045.7	3583.4	4718.4	0.0	0.0	0.0	0.0	2538	1046	3583	4718	5		14	
4										4	10	100	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2537.7	1045.7	3583.4	4718.4	0.0	0.0	0.0	0.0	2538	1046	3583	4718	4		14	
3										4	10	100	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2537.7	1045.7	3583.4	4718.4	0.0	0.0	0.0	0.0	2538	1046	3583	4718	3		14	
2										4	25	100	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2537.7	1045.7	3583.4	4718.4	0.0	0.0	0.0	0.0	2538	1046	3583	4718	2		14	
1										4	25	100	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2537.7	1045.7	3583.4	4718.4	0.0	0.0	0.0	0.0	2538	1046	3583	4718	1		14	
Cellar (parki	16.2	1	2704	12	916.3	916.3	85.1			4	25	100	42.7	160.4	1.0	91.6	42.7	0.0	42.7	51.3	2580.4	1045.7	3626.1	4769.7	42.7	0.0	42.7	51.3	2580	1046	3626	4770	parking)	1.8	14	
																													2580	**1046**	**3626**	**4770**				
																													DL	**LL**	**SERV.L**	**FACT. L**				

* Sub-cellar floor slab is structural slab

*Load including lowest level slab

Column Axial Load

Project : 101 Murray Street

DATE: Jan 20, 2015

Column 3

FL.	STORY HEIGHT (ft)	EQUIV.SECT AREA (in2) (B)	(D)	SLAB THK. (in)	TRIBUTARY AREA Floor (ft2)	Accum (ft2)	Floor (m2)	ADD. Dead Load (kips)	ADD. Live Load (kips)	K Element Factor	DSTRB. LOAD SDL (lb/ft2)	LL (lb/ft2)	DEAD LOAD COLMN (kips)	SLAB (kips)	LIVE LOAD RED. RED. F.	RED L.L(kips)	WITHOUT LOAD REDUCTION								WITH LIVE LOAD REDUCTION								FL.	Stress (ksi)	Con. C (ksi)	Ratio
																	FLOOR LOAD				SUMMATION LOAD				FLOOR LOAD				SUMMATION LOAD							
																	DL (kips)	LL (kips)	SERV.L (kips)	FACT. L (kips)	DL (kips)	LL (kips)	SERV.L (kips)	FACT. L (kips)	DL (kips)	LL (kips)	SERV.L (kips)	FACT. L (kips)	DL (kips)	LL (kips)	SERV.L (kips)	FACT. L (kips)				
61		0	0	0	0	0	0.0			4	0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	61			
60	14.0	0	0	0	476.8	476.8	44.3	0.0		4	25	100	0.0	11.9	1.0	47.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	60			
59	14.0	1	907.5	16	476.8	953.6	44.3	8.1		4	300	100	12.0	246.5	1.0	47.7	23.9	47.7	71.6	105.0	23.9	47.7	71.6	105.0	23.9	47.7	71.6	105.0	24	48	72	105	59	0.1	12	1.0%
58	16.3	1	907.5	16	476.8	1430.4	44.3	8.1		4	25	100	14.2	115.4	1.0	47.7	260.7	47.7	308.4	389.1	284.6	95.4	379.9	494.1	260.7	47.7	308.4	389.1	285	95	380	494	58	0.5	12	4.5%
57	14.0	1	907.5	16	476.8	1907.2	44.3	8.1		4	10	100	12.0	108.2	1.0	47.7	127.4	47.7	175.0	229.1	411.9	143.0	555.0	723.2	127.4	47.7	175.0	229.1	412	143	555	723	57	0.8	12	6.6%
56	14.0	1	907.5	16	476.8	2384	44.3	8.1		4	25	100	12.0	115.4	1.0	47.7	120.2	47.7	167.9	220.5	532.1	190.7	722.8	943.7	120.2	47.7	167.9	220.5	532	191	723	944	56	1.0	12	8.7%
55	14.0	1	907.5	16	476.8	2860.8	44.3	8.1		4	25	100	12.0	115.4	1.0	47.7	127.4	47.7	175.0	229.1	659.5	238.4	897.9	1172.8	127.4	47.7	175.0	229.1	659	238	898	1173	55	1.3	12	10.8%
54	12.8	1	907.5	16	476.8	3337.6	44.3	8.1		4	25	100	10.8	115.4	1.0	47.7	126.2	47.7	173.9	227.7	785.7	286.1	1071.8	1400.6	126.2	47.7	173.9	227.7	786	286	1072	1401	54	1.5	12	12.9%
53	11.8	1	907.5	16	476.8	3814.4	44.3	8.1		4	25	100	9.9	115.4	1.0	47.7	125.3	47.7	172.9	226.6	911.0	333.8	1244.7	1627.2	125.3	47.7	172.9	226.6	911	334	1245	1627	53	1.8	12	14.9%
52	11.8	1	907.5	16	476.8	4291.2	44.3	8.1		4	25	100	9.9	115.4	1.0	47.7	125.3	47.7	172.9	226.6	1036.2	381.4	1417.7	1853.8	125.3	47.7	172.9	226.6	1036	381	1418	1854	52	2.0	12	17.0%
51	11.8	28	40	16	474.3	4765.5	44.1	7.9		4	25	100	12.2	114.6	1.0	47.4	127.6	47.7	175.3	229.4	1163.8	429.1	1592.9	2083.2	127.6	47.7	175.3	229.4	1164	429	1593	2083	51	1.9	12	15.5%
50	12.6	28	40	16	474.3	5239.8	44.1	7.9		4	25	100	13.2	114.6	1.0	47.4	127.8	47.4	175.2	229.2	1291.6	476.6	1768.1	2312.4	127.8	47.4	175.2	229.2	1292	477	1768	2312	50	2.1	12	17.2%
49	13.6	28	40	12	474.3	5714.1	44.1	7.9		4	25	100	14.7	90.9	1.0	47.4	129.3	47.4	176.8	231.1	1420.9	524.0	1944.9	2543.5	129.3	47.4	176.8	231.1	1421	524	1945	2543	49	2.3	12	18.9%
48	11.6	28	40	12	474.3	6188.4	44.1	7.9		4	25	100	12.4	90.9	1.0	47.4	103.3	47.4	150.7	199.8	1524.2	571.4	2095.7	2743.3	103.3	47.4	150.7	199.8	1524	571	2096	2743	48	2.4	12	20.4%
47	11.6	28	40	12	474.3	6662.7	44.1	7.9		4	25	100	12.4	90.9	1.0	47.4	103.3	47.4	150.7	199.8	1627.5	618.8	2246.4	2943.2	103.3	47.4	150.7	199.8	1628	619	2246	2943	47	2.6	12	21.9%
46	11.6	28	40	12	474.3	7137	44.1	7.9		4	25	100	12.4	90.9	1.0	47.4	103.3	47.4	150.7	199.8	1730.8	666.3	2397.1	3143.0	103.3	47.4	150.7	199.8	1731	666	2397	3143	46	2.8	12	23.4%
45	11.6	28	40	12	474.3	7611.3	44.1	7.9		4	25	100	12.4	90.9	1.0	47.4	103.3	47.4	150.7	199.8	1834.1	713.7	2547.8	3342.9	103.3	47.4	150.7	199.8	1834	714	2548	3343	45	3.0	12	24.9%
44	11.6	28	40	12	474.3	8085.6	44.1	7.9		4	25	100	12.4	90.9	1.0	47.4	103.3	47.4	150.7	199.8	1937.4	761.1	2698.6	3542.7	103.3	47.4	150.7	199.8	1937	761	2699	3543	44	3.2	12	26.4%
43	11.6	28	40	12	474.3	8559.9	44.1	7.9		4	25	100	12.4	90.9	1.0	47.4	103.3	47.4	150.7	199.8	2040.7	808.6	2849.3	3742.6	103.3	47.4	150.7	199.8	2041	809	2849	3743	43	3.3	12	27.8%
42	11.6	28	40	12	474.3	9034.2	44.1	7.9		4	25	100	12.4	90.9	1.0	47.4	103.3	47.4	150.7	199.8	2144.0	856.0	3000.0	3942.4	103.3	47.4	150.7	199.8	2144	856	3000	3942	42	3.5	12	29.3%
41	11.6	28	40	12	474.3	9508.5	44.1	7.9		4	25	100	12.4	90.9	1.0	47.4	103.3	47.4	150.7	199.8	2247.3	903.4	3150.7	4142.3	103.3	47.4	150.7	199.8	2247	903	3151	4142	41	3.7	12	30.8%
40	11.6	28	40	12	474.3	9982.8	44.1	7.9		4	10	100	12.4	83.8	1.0	47.4	103.3	47.4	150.7	199.8	2350.6	950.9	3301.5	4342.1	103.3	47.4	150.7	199.8	2351	951	3301	4342	40	3.9	12	32.3%
39	11.6	28	40	12	474.3	10457	44.1	7.9		4	25	100	12.4	90.9	1.0	47.4	96.2	47.4	143.6	191.3	2446.8	998.3	3445.1	4533.4	96.2	47.4	143.6	191.3	2447	998	3445	4533	39	4.0	12	33.7%
38	11.6	28	40	12	943.3	11400	87.6	7.9		4	25	100	12.4	173.0	1.0	94.3	103.3	47.4	150.7	199.8	2550.1	1045.7	3595.8	4733.3	103.3	47.4	150.7	199.8	2550	1046	3596	4733	38	4.2	12	35.2%
37	11.6	28	40	12	943.3	12344	87.6	8.0		4	25	100	12.4	173.1	1.0	94.3	185.4	94.3	279.7	373.4	2735.5	1140.0	3875.5	5106.6	185.4	94.3	279.7	373.4	2735	1140	3876	5107	37	4.6	14	32.6%
36	12.6	28	40	12	943.3	13287	87.6	8.0		4	25	100	13.6	173.1	1.0	94.3	186.6	94.3	281.0	374.9	2922.1	1234.4	4156.5	5481.5	186.6	94.3	281.0	374.9	2922	1234	4156	5482	36	4.9	14	35.0%
35	11.6	28	40	12	943.3	14230	87.6	8.0		4	25	100	12.4	173.1	1.0	94.3	185.5	94.3	279.8	373.5	3107.6	1328.7	4436.3	5855.0	185.5	94.3	279.8	373.5	3108	1329	4436	5855	35	5.2	14	37.3%
34	11.6	28	40	12	943.3	15174	87.6	8.0		4	25	100	12.4	173.1	1.0	94.3	185.5	94.3	279.8	373.5	3293.1	1423.0	4716.1	6228.5	185.5	94.3	279.8	373.5	3293	1423	4716	6229	34	5.6	14	39.7%
33	11.6	28	40	12	943.3	16117	87.6	8.0		4	25	100	12.4	173.1	1.0	94.3	185.5	94.3	279.8	373.5	3478.5	1517.4	4995.9	6602.0	185.5	94.3	279.8	373.5	3479	1517	4996	6602	33	5.9	14	42.1%
32	11.6	28	40	12	943.3	17060	87.6	8.0		4	25	100	12.4	173.1	1.0	94.3	185.5	94.3	279.8	373.5	3664.0	1611.7	5275.7	6975.5	185.5	94.3	279.8	373.5	3664	1612	5276	6976	32	6.2	14	44.5%
31	11.6	28	40	12	943.3	18004	87.6	8.0		4	25	100	12.4	173.1	1.0	94.3	185.5	94.3	279.8	373.5	3849.5	1706.0	5555.5	7349.0	185.5	94.3	279.8	373.5	3849	1706	5556	7349	31	6.6	14	46.9%
30	11.6	28	40	12	943.3	18947	87.6	8.0		4	25	100	12.4	173.1	1.0	94.3	185.5	94.3	279.8	373.5	4035.0	1800.4	5835.3	7722.5	185.5	94.3	279.8	373.5	4035	1800	5835	7723	30	6.9	14	49.3%
29	11.6	46	46	12	943.3	19890	87.6	8.0		4	25	100	23.4	173.1	1.0	94.3	196.5	94.3	290.8	386.7	4231.5	1894.7	6126.1	8109.2	196.5	94.3	290.8	386.7	4231	1895	6126	8109	29	3.8	14	27.4%
28	11.6	46	46	12	943.3	20833	87.6	8.0		4	25	100	23.4	173.1	1.0	94.3	196.5	94.3	290.8	386.7	4428.0	1989.0	6417.0	8496.0	196.5	94.3	290.8	386.7	4428	1989	6417	8496	28	4.0	14	28.7%
27	11.6	46	46	12	943.3	21777	87.6	8.0		4	25	100	23.4	173.1	1.0	94.3	196.5	94.3	290.8	386.7	4624.5	2083.3	6707.8	8882.7	196.5	94.3	290.8	386.7	4624	2083	6708	8883	27	4.2	14	30.0%
26	23.3	46	46	12	943.3	22720	87.6	8.0		4	25	100	49.0	173.1	1.0	94.3	222.1	94.3	316.5	417.5	4846.6	2177.7	7024.2	9300.2	222.1	94.3	316.5	417.5	4847	2178	7024	9300	26	4.4	14	31.4%
25	13.6	46	46	12	943.3	23663	87.6	8.0		4	25	100	27.8	173.1	1.0	94.3	200.9	94.3	295.2	392.0	5047.5	2272.0	7319.5	9692.2	200.9	94.3	295.2	392.0	5047	2272	7319	9692	25	4.6	14	32.7%
24	11.6	46	46	12	943.3	24607	87.6	8.0		4	25	100	23.4	173.1	1.0	94.3	196.5	94.3	290.8	386.7	5244.0	2366.3	7610.3	10078.9	196.5	94.3	290.8	386.7	5244	2366	7610	10079	24	4.8	14	34.0%
23	11.6	46	46	12	943.3	25550	87.6	8.0		4	25	100	23.4	173.1	1.0	94.3	196.5	94.3	290.8	386.7	5440.5	2460.7	7901.1	10465.6	196.5	94.3	290.8	386.7	5440	2461	7901	10466	23	4.9	14	35.3%
22	11.6	46	46	12	943.3	26493	87.6	8.0		4	10	100	23.4	158.9	1.0	94.3	196.5	94.3	290.8	386.7	5637.0	2555.0	8192.0	10852.3	196.5	94.3	290.8	386.7	5637	2555	8192	10852	22	5.1	14	36.6%
21	11.6	46	46	12	943.3	27437	87.6	8.0		4	25	100	23.4	173.1	1.0	94.3	182.3	94.3	276.7	369.7	5819.3	2649.3	8468.6	11222.1	182.3	94.3	276.7	369.7	5819	2649	8469	11222	21	5.3	14	37.9%
20	11.6	46	46	12	943.3	28380	87.6	8.0		4	25	100	23.4	173.1	1.0	94.3	196.5	94.3	290.8	386.7	6015.8	2743.7	8759.5	11608.8	196.5	94.3	290.8	386.7	6016	2744	8759	11609	20	5.5	14	39.2%
19	11.6	46	46	12	943.3	29323	87.6	8.0		4	25	100	23.4	173.1	1.0	94.3	196.5	94.3	290.8	386.7	6212.3	2838.0	9050.3	11995.5	196.5	94.3	290.8	386.7	6212	2838	9050	11996	19	5.7	14	40.5%
18	11.6	46	46	12	943.3	30266	87.6	8.0		4	25	100	23.4	173.1	1.0	94.3	196.5	94.3	290.8	386.7	6408.8	2932.3	9341.1	12382.3	196.5	94.3	290.8	386.7	6409	2932	9341	12382	18	5.7	14	40.5%
17	11.6	46	46	12	943.3	31210	87.6	8.0		4	25	100	23.4	173.1	1.0	94.3	196.5	94.3	290.8	386.7	6605.3	3026.6	9631.9	12769.0	196.5	94.3	290.8	386.7	6605	3027	9632	12769	17	6.0	14	40.5%
16	11.6	46	46	12	943.3	32153	87.6	8.0		4	25	100	23.4	173.1	1.0	94.3	196.5	94.3	290.8	386.7	6801.8	3121.0	9922.8	13155.7	196.5	94.3	290.8	386.7	6802	3121	9923	13156	16	6.2	14	40.5%
15	11.6	50	50	12	943.3	33096	87.6	8.0		4	25	100	27.7	173.1	1.0	94.3	200.7	94.3	295.1	391.8	7002.5	3215.3	10217.8	13547.5	200.7	94.3	295.1	391.8	7003	3215	10218	13548	15	5.4	14	40.5%
14	11.6	50	50	12	943.3	34040	87.6	8.0		4	25	100	27.7	173.1	1.0	94.3	200.7	94.3	295.1	391.8	7203.3	3309.6	10512.9	13939.4	200.7	94.3	295.1	391.8	7203	3310	10513	13939	14	5.4	14	40.5%
13	11.6	50	50	12	943.3	34983	87.6	8.0		4	25	100	27.7	173.1	1.0	94.3	200.7	94.3	295.1	391.8	7404.0	3404.0	10808.0	14331.2	200.7	94.3	295.1	391.8	7404	3404	10808	14331	13	5.7	14	40.5%
12	11.6	50	50	12	943.3	35926	87.6	8.0		4	25	100	27.7	173.1	1.0	94.3	200.7	94.3	295.1	391.8	7604.8	3498.3	11103.1	14723.0	200.7	94.3	295.1	391.8	7605	3498	11103	14723	12	5.9	14	40.5%
11	11.6	50	50	12	916.3	36843	85.1	7.7		4	25	100	27.7	168.1	1.0	91.6	200.7	94.3	295.1	391.8	7805.5	3592.6	11398.2	15114.8	200.7	94.3	295.1	391.8	7806	3593	11398	15115	11	6.0	14	40.5%
10	11.6	50	50	12	916.3	37759	85.1	7.7		4	25	100	27.7	168.1	1.0	91.6	195.7	91.6	287.4	381.5	8001.3	3684.3	11685.5	15496.3	195.7	91.6	287.4	381.5	8001	3684	11686	15496	10	6.0	14	40.5%
9	14.0	50	50	12	916.3	38675	85.1	7.7		4	25	100	33.9	168.1	1.0	91.6	201.9	91.6	293.5	388.9	8203.2	3775.9	11979.0	15885.2	201.9	91.6	293.5	388.9	8203	3776	11979	15885	9	6.4	14	40.5%
8	11.6	50	50	12	916.3	39591	85.1	7.7		4	25	100	27.7	168.1	1.0	91.6	195.7	91.6	287.4	381.5	8398.9	3867.5	12266.4	16266.7	195.7	91.6	287.4	381.5	8399	3868	12266	16267	8	6.5	14	40.5%
7	11.6	50	50	12	916.3	40508	85.1	7.7		4	25	100	27.7	168.1	1.0	91.6	195.7	91.6	287.4	381.5	8594.6	3959.1	12553.7	16648.2	195.7	91.6	287.4	381.5	8595	3959	12554	16648	7	6.7	14	40.5%
6	11.6	50	50	12	916.3	41424	85.1	7.7		4	25	100	27.7	168.1	1.0	91.6	195.7	91.6	287.4	381.5	8790.3	4050.8	12841.1	17029.6	195.7	91.6	287.4	381.5	8790	4051	12841	17030	6	6.7	14	40.5%
5	11.6	50	50	12	916.3	42340	85.1	7.7		4	25	100	27.7	168.1	1.0	91.6	195.7	91.6	287.4	381.5	8986.1	4142.4	13128.5	17411.1	195.7	91.6	287.4	381.5	8986	4142	13128	17411	5	7.0	14	40.5%
4	11.6	50	50	12	916.3	43257	85.1	7.7		4	10	100	27.7	154.3	1.0	91.6	195.7	91.6	287.4	381.5	9181.8	4234.0	13415.8	17792.6	195.7	91.6	287.4	381.5	9182	4234	13416	17793	4	7.1	14	40.5%
3	11.6	50	50	12	916.3	44173	85.1	7.7		4	10	100	27.7	154.3	1.0	91.6	182.0	91.6	273.6	365.0	9363.7	4325.7	13689.4	18157.6	182.0	91.6	273.6	365.0	9364	4326	13689	18158	3	7.3	14	40.5%
2	21.0	50	50	12	916.3	45089	85.1	7.7		4	25	100	52.1	168.1	1.0	91.6	206.4	91.6	298.0	394.3	9570.1	4417.3	13987.4	18551.8	206.4	91.6	298.0	394.3	9570	4417	13987	18552	2	7.3	14	40.5%
1	30.0	50	50	12	916.3	46006	85.1	7.7		4	25	100	75.5	168.1	1.0	91.6	243.6	91.6	335.2	438.9	9813.7	4508.9	14322.6	18990.7	243.6	91.6	335.2	438.9	9814	4509	14323	18991	1	7.6	14	40.5%
Cellar (parki	16.2	50	50	12	916.3	46922	85.1			4	25	100	39.5	160.4	1.0	91.6	207.5	91.6	299.2	395.7	10021.3	4600.6	14621.8	19386.4	207.5	91.6	299.2	395.7	10021	4601	14622	19386	parking)	7.8	14	40.5%
																													DL	LL	SERV.L	FACT. L				

* Sub-cellar floor slab is structural slab

*Load including lowest level slab

Column Axial Load

Project : 101 Murray Street

DATE: Jan 20, 2015

Column 4

FL.	STORY HEIGHT (ft)	EQUIV.SECT AREA (in2) (B)	(D)	SLAB THK. (in)	TRIBUTARY AREA Floor (ft2)	Accum (ft2)	Floor (m2)	ADD. Dead Load (kips)	ADD. Live Load (kips)	K Element Factor	DSTRB. LOAD SDL (lb/ft2)	LL (lb/ft2)	DEAD LOAD COLMN (kips)	SLAB (kips)	LIVE LOAD RED. RED. F.	RED L.L(kips)	WITHOUT LOAD REDUCTION FLOOR LOAD DL (kips)	LL (kips)	SERV.L (kips)	FACT. L (kips)	SUMMATION LOAD DL (kips)	LL (kips)	SERV.L (kips)	FACT. L (kips)	WITH LIVE LOAD REDUCTION FLOOR LOAD DL (kips)	LL (kips)	SERV.L (kips)	FACT. L (kips)	SUMMATION LOAD DL (kips)	LL (kips)	SERV.L (kips)	FACT. L (kips)	FL.	Stress (ksi)	Con. C (ksi)	Ratio
61		0	0	0	0	0	0.0			4	0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	61			
60	14.0	0	0	0	493.8	493.8	45.9	0		4	25	100	0.0	12.3	1.0	49.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	60			
59	14.0	1	907.5	16	493.8	987.6	45.9	8.5		4	300	100	12.0	255.4	1.0	49.4	24.3	49.4	73.7	108.2	24.3	49.4	73.7	108.2	24.3	49.4	73.7	108.2	24	49	74	108	59	0.1	12	1.0%
58	16.3	1	907.5	16	493.8	1481.4	45.9	8.5		4	25	100	14.2	119.6	1.0	49.4	269.6	49.4	319.0	402.5	293.9	98.8	392.7	510.7	269.6	49.4	319.0	402.5	294	99	393	511	58	0.6	12	4.7%
57	14.0	1	907.5	16	493.8	1975.2	45.9	8.5		4	10	100	12.0	112.2	1.0	49.4	131.6	49.4	181.0	236.9	425.5	148.1	573.6	747.6	131.6	49.4	181.0	236.9	425	148	574	748	57	0.8	12	6.9%
56	14.0	1	907.5	16	493.8	2469	45.9	8.5		4	25	100	12.0	119.6	1.0	49.4	124.2	49.4	173.6	228.0	549.6	197.5	747.2	975.6	124.2	49.4	173.6	228.0	550	198	747	976	56	1.1	12	9.0%
55	14.0	1	907.5	16	493.8	2962.8	45.9	8.5		4	25	100	12.0	119.6	1.0	49.4	131.6	49.4	181.0	236.9	681.2	246.9	928.1	1212.5	131.6	49.4	181.0	236.9	681	247	928	1213	55	1.3	12	11.1%
54	12.8	1	907.5	16	493.8	3456.6	45.9	8.5		4	25	100	10.8	119.6	1.0	49.4	130.4	49.4	179.8	235.5	811.7	296.3	1107.9	1448.0	130.4	49.4	179.8	235.5	812	296	1108	1448	54	1.6	12	13.3%
53	11.8	1	907.5	16	493.8	3950.4	45.9	8.5		4	25	100	9.9	119.6	1.0	49.4	129.5	49.4	178.9	234.4	941.2	345.7	1286.8	1682.4	129.5	49.4	178.9	234.4	941	346	1287	1682	53	1.9	12	15.5%
52	11.8	1	907.5	16	493.8	4444.2	45.9	8.5		4	25	100	9.9	119.6	1.0	49.4	129.5	49.4	178.9	234.4	1070.6	395.0	1465.7	1916.8	129.5	49.4	178.9	234.4	1071	395	1466	1917	52	2.1	12	17.6%
51	11.8	28	40	16	491.2	4935.4	45.6	8.5		4	25	100	12.2	119.0	1.0	49.1	131.8	49.4	181.2	237.2	1202.5	444.4	1646.9	2154.0	131.8	49.4	181.2	237.2	1202	444	1647	2154	51	1.9	12	16.0%
50	12.6	28	40	16	491.2	5426.6	45.6	8.5		4	25	100	13.2	119.0	1.0	49.1	132.2	49.1	181.3	237.2	1334.6	493.5	1828.2	2391.2	132.2	49.1	181.3	237.2	1335	494	1828	2391	50	2.1	12	17.8%
49	13.6	28	40	12	491.2	5917.8	45.6	8.5		4	25	100	14.7	94.5	1.0	49.1	133.7	49.1	182.9	239.1	1468.4	542.7	2011.1	2630.3	133.7	49.1	182.9	239.1	1468	543	2011	2630	49	2.3	12	19.6%
48	11.6	28	40	12	491.2	6409	45.6	8.5		4	25	100	12.4	94.5	1.0	49.1	106.9	49.1	156.0	206.8	1575.2	591.8	2167.0	2837.1	106.9	49.1	156.0	206.8	1575	592	2167	2837	48	2.5	12	21.1%
47	11.6	28	40	12	491.2	6900.2	45.6	8.5		4	25	100	12.4	94.5	1.0	49.1	106.9	49.1	156.0	206.8	1682.1	640.9	2323.0	3044.0	106.9	49.1	156.0	206.8	1682	641	2323	3044	47	2.7	12	22.6%
46	11.6	28	40	12	491.2	7391.4	45.6	8.5		4	25	100	12.4	94.5	1.0	49.1	106.9	49.1	156.0	206.8	1789.0	690.0	2479.0	3250.8	106.9	49.1	156.0	206.8	1789	690	2479	3251	46	2.9	12	24.2%
45	11.6	28	40	12	491.2	7882.6	45.6	8.5		4	25	100	12.4	94.5	1.0	49.1	106.9	49.1	156.0	206.8	1895.8	739.1	2635.0	3457.6	106.9	49.1	156.0	206.8	1896	739	2635	3458	45	3.1	12	25.7%
44	11.6	28	40	12	491.2	8373.8	45.6	8.5		4	25	100	12.4	94.5	1.0	49.1	106.9	49.1	156.0	206.8	2002.7	788.3	2790.9	3664.4	106.9	49.1	156.0	206.8	2003	788	2791	3664	44	3.3	12	27.3%
43	11.6	28	40	12	491.2	8865	45.6	8.5		4	25	100	12.4	94.5	1.0	49.1	106.9	49.1	156.0	206.8	2109.5	837.4	2946.9	3871.2	106.9	49.1	156.0	206.8	2110	837	2947	3871	43	3.5	12	28.8%
42	11.6	28	40	12	491.2	9356.2	45.6	8.5		4	25	100	12.4	94.5	1.0	49.1	106.9	49.1	156.0	206.8	2216.4	886.5	3102.9	4078.1	106.9	49.1	156.0	206.8	2216	887	3103	4078	42	3.6	12	30.3%
41	11.6	28	40	12	491.2	9847.4	45.6	8.5		4	25	100	12.4	94.5	1.0	49.1	106.9	49.1	156.0	206.8	2323.2	935.6	3258.9	4284.9	106.9	49.1	156.0	206.8	2323	936	3259	4285	41	3.8	12	31.9%
40	11.6	28	40	12	491.2	10339	45.6	8.5		4	10	100	12.4	87.1	1.0	49.1	106.9	49.1	156.0	206.8	2430.1	984.7	3414.8	4491.7	106.9	49.1	156.0	206.8	2430	985	3415	4492	40	4.0	12	33.4%
39	11.6	28	40	12	491.2	10830	45.6	8.5		4	25	100	12.4	94.5	1.0	49.1	99.5	49.1	148.6	198.0	2529.6	1033.9	3563.4	4689.7	99.5	49.1	148.6	198.0	2530	1034	3563	4690	39	4.2	12	34.9%
38										4	25	100	0.0	0.0	0.0	0.0	94.5	49.1	143.6	191.9	2624.0	1083.0	3707.0	4881.6	94.5	49.1	143.6	191.9	2624	1083	3707	4882	38		12	
37										4	25	100	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2624.0	1083.0	3707.0	4881.6	0.0	0.0	0.0	0.0	2624	1083	3707	4882	37		14	
36										4	25	100	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2624.0	1083.0	3707.0	4881.6	0.0	0.0	0.0	0.0	2624	1083	3707	4882	36		14	
35										4	25	100	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2624.0	1083.0	3707.0	4881.6	0.0	0.0	0.0	0.0	2624	1083	3707	4882	35		14	
34										4	25	100	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2624.0	1083.0	3707.0	4881.6	0.0	0.0	0.0	0.0	2624	1083	3707	4882	34		14	
33										4	25	100	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2624.0	1083.0	3707.0	4881.6	0.0	0.0	0.0	0.0	2624	1083	3707	4882	33		14	
32										4	25	100	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2624.0	1083.0	3707.0	4881.6	0.0	0.0	0.0	0.0	2624	1083	3707	4882	32		14	
31										4	25	100	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2624.0	1083.0	3707.0	4881.6	0.0	0.0	0.0	0.0	2624	1083	3707	4882	31		14	
30										4	25	100	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2624.0	1083.0	3707.0	4881.6	0.0	0.0	0.0	0.0	2624	1083	3707	4882	30		14	
29										4	25	100	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2624.0	1083.0	3707.0	4881.6	0.0	0.0	0.0	0.0	2624	1083	3707	4882	29		14	
28										4	25	100	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2624.0	1083.0	3707.0	4881.6	0.0	0.0	0.0	0.0	2624	1083	3707	4882	28		14	
27										4	25	100	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2624.0	1083.0	3707.0	4881.6	0.0	0.0	0.0	0.0	2624	1083	3707	4882	27		14	
26										4	25	100	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2624.0	1083.0	3707.0	4881.6	0.0	0.0	0.0	0.0	2624	1083	3707	4882	26		14	
25										4	25	100	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2624.0	1083.0	3707.0	4881.6	0.0	0.0	0.0	0.0	2624	1083	3707	4882	25		14	
24										4	25	100	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2624.0	1083.0	3707.0	4881.6	0.0	0.0	0.0	0.0	2624	1083	3707	4882	24		14	
23										4	25	100	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2624.0	1083.0	3707.0	4881.6	0.0	0.0	0.0	0.0	2624	1083	3707	4882	23		14	
22										4	10	100	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2624.0	1083.0	3707.0	4881.6	0.0	0.0	0.0	0.0	2624	1083	3707	4882	22		14	
21										4	25	100	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2624.0	1083.0	3707.0	4881.6	0.0	0.0	0.0	0.0	2624	1083	3707	4882	21		14	
20										4	25	100	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2624.0	1083.0	3707.0	4881.6	0.0	0.0	0.0	0.0	2624	1083	3707	4882	20		14	
19										4	25	100	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2624.0	1083.0	3707.0	4881.6	0.0	0.0	0.0	0.0	2624	1083	3707	4882	19		14	
18										4	25	100	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2624.0	1083.0	3707.0	4881.6	0.0	0.0	0.0	0.0	2624	1083	3707	4882	18		14	
17										4	25	100	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2624.0	1083.0	3707.0	4881.6	0.0	0.0	0.0	0.0	2624	1083	3707	4882	17		14	
16										4	25	100	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2624.0	1083.0	3707.0	4881.6	0.0	0.0	0.0	0.0	2624	1083	3707	4882	16		14	
15										4	25	100	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2624.0	1083.0	3707.0	4881.6	0.0	0.0	0.0	0.0	2624	1083	3707	4882	15		14	
14										4	25	100	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2624.0	1083.0	3707.0	4881.6	0.0	0.0	0.0	0.0	2624	1083	3707	4882	14		14	
13										4	25	100	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2624.0	1083.0	3707.0	4881.6	0.0	0.0	0.0	0.0	2624	1083	3707	4882	13		14	
12										4	25	100	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2624.0	1083.0	3707.0	4881.6	0.0	0.0	0.0	0.0	2624	1083	3707	4882	12		14	
11										4	25	100	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2624.0	1083.0	3707.0	4881.6	0.0	0.0	0.0	0.0	2624	1083	3707	4882	11		14	
10										4	25	100	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2624.0	1083.0	3707.0	4881.6	0.0	0.0	0.0	0.0	2624	1083	3707	4882	10		14	
9										4	25	100	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2624.0	1083.0	3707.0	4881.6	0.0	0.0	0.0	0.0	2624	1083	3707	4882	9		14	
8										4	25	100	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2624.0	1083.0	3707.0	4881.6	0.0	0.0	0.0	0.0	2624	1083	3707	4882	8		14	
7										4	25	100	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2624.0	1083.0	3707.0	4881.6	0.0	0.0	0.0	0.0	2624	1083	3707	4882	7		14	
6										4	25	100	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2624.0	1083.0	3707.0	4881.6	0.0	0.0	0.0	0.0	2624	1083	3707	4882	6		14	
5										4	25	100	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2624.0	1083.0	3707.0	4881.6	0.0	0.0	0.0	0.0	2624	1083	3707	4882	5		14	
4										4	10	100	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2624.0	1083.0	3707.0	4881.6	0.0	0.0	0.0	0.0	2624	1083	3707	4882	4		14	
3										4	10	100	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2624.0	1083.0	3707.0	4881.6	0.0	0.0	0.0	0.0	2624	1083	3707	4882	3		14	
2										4	25	100	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2624.0	1083.0	3707.0	4881.6	0.0	0.0	0.0	0.0	2624	1083	3707	4882	2		14	
1										4	25	100	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2624.0	1083.0	3707.0	4881.6	0.0	0.0	0.0	0.0	2624	1083	3707	4882	1		14	
Cellar (parki	16.2	1	2704	12	916.3	916.3	85.1			4	25	100	42.7	160.4	1.0	91.6	42.7	0.0	42.7	51.3	2666.8	1083.0	3749.7	4932.9	42.7	0.0	42.7	51.3	2667	1083	3750	4933	parking)	1.8	14	
																													2667	**1083**	**3750**	**4933**				
																													DL	**LL**	**SERV.L**	**FACT. L**				

* Sub-cellar floor slab is structural slab

*Load including lowest level slab

Column Axial Load

Project : 101 Murray Street

DATE: Jan 20, 2015

Column 5

FL.	STORY HEIGHT (ft)	EQUIV.SECT AREA (in2) (B)	(D)	SLAB THK. (in)	TRIBUTARY AREA Floor (ft2)	Accum (ft2)	Floor (m2)	ADD. Dead Load (kips)	ADD. Live Load (kips)	K Element Factor	DSTRB. LOAD SDL (lb/ft2)	LL (lb/ft2)	DEAD LOAD COLMN (kips)	SLAB (kips)	LIVE LOAD RED. RED. F.	RED L.L(kips)	WITHOUT LOAD REDUCTION FLOOR LOAD DL (kips)	LL (kips)	SERV.L (kips)	FACT. L (kips)	SUMMATION LOAD DL (kips)	LL (kips)	SERV.L (kips)	FACT. L (kips)	WITH LIVE LOAD REDUCTION FLOOR LOAD DL (kips)	LL (kips)	SERV.L (kips)	FACT. L (kips)	SUMMATION LOAD DL (kips)	LL (kips)	SERV.L (kips)	FACT. L (kips)	FL.	Stress (ksi)	Con. C (ksi)	Ratio
61		0	0	0	0	0	0.0			4	0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	61			
60	14.0	0	0	0	476.8	476.8	44.3	0		4	25	100	0.0	11.9	1.0	47.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	60			
59	14.0	1	907.5	16	476.8	953.6	44.3	7.9		4	300	100	12.0	246.3	1.0	47.7	23.9	47.7	71.6	105.0	23.9	47.7	71.6	105.0	23.9	47.7	71.6	105.0	24	48	72	105	59	0.1	12	1.0%
58	16.3	1	907.5	16	476.8	1430.4	44.3	7.9		4	25	100	14.2	115.2	1.0	47.7	260.5	47.7	308.2	388.9	284.4	95.4	379.7	493.8	260.5	47.7	308.2	388.9	284	95	380	494	58	0.5	12	4.5%
57	14.0	1	907.5	16	476.8	1907.2	44.3	7.9		4	10	100	12.0	108.0	1.0	47.7	127.2	47.7	174.8	228.9	411.5	143.0	554.6	722.7	127.2	47.7	174.8	228.9	412	143	555	723	57	0.8	12	6.6%
56	14.0	1	907.5	16	476.8	2384	44.3	7.9		4	25	100	12.0	115.2	1.0	47.7	120.0	47.7	167.7	220.3	531.5	190.7	722.2	943.0	120.0	47.7	167.7	220.3	532	191	722	943	56	1.0	12	8.7%
55	14.0	1	907.5	16	476.8	2860.8	44.3	7.9		4	25	100	12.0	115.2	1.0	47.7	127.2	47.7	174.8	228.9	658.7	238.4	897.1	1171.9	127.2	47.7	174.8	228.9	659	238	897	1172	55	1.3	12	10.8%
54	12.8	1	907.5	16	476.8	3337.6	44.3	7.9		4	25	100	10.8	115.2	1.0	47.7	126.0	47.7	173.7	227.5	784.7	286.1	1070.8	1399.4	126.0	47.7	173.7	227.5	785	286	1071	1399	54	1.5	12	12.9%
53	11.8	1	907.5	16	476.8	3814.4	44.3	7.9		4	25	100	9.9	115.2	1.0	47.7	125.1	47.7	172.7	226.4	909.8	333.8	1243.5	1625.7	125.1	47.7	172.7	226.4	910	334	1244	1626	53	1.8	12	14.9%
52	11.8	1	907.5	16	476.8	4291.2	44.3	7.9		4	25	100	9.9	115.2	1.0	47.7	125.1	47.7	172.7	226.4	1034.8	381.4	1416.3	1852.1	125.1	47.7	172.7	226.4	1035	381	1416	1852	52	2.0	12	17.0%
51	11.8	28	40	16	474.3	4765.5	44.1	7.7		4	25	100	12.2	114.4	1.0	47.4	127.4	47.7	175.1	229.1	1162.2	429.1	1591.3	2081.2	127.4	47.7	175.1	229.1	1162	429	1591	2081	51	1.9	12	15.5%
50	12.6	28	40	16	474.3	5239.8	44.1	7.7		4	25	100	13.2	114.4	1.0	47.4	127.6	47.4	175.0	229.0	1289.8	476.6	1766.3	2310.2	127.6	47.4	175.0	229.0	1290	477	1766	2310	50	2.1	12	17.2%
49	13.6	28	40	12	474.3	5714.1	44.1	7.7		4	25	100	14.7	90.7	1.0	47.4	129.1	47.4	176.6	230.9	1418.9	524.0	1942.9	2541.1	129.1	47.4	176.6	230.9	1419	524	1943	2541	49	2.3	12	18.9%
48	11.6	28	40	12	474.3	6188.4	44.1	7.7		4	25	100	12.4	90.7	1.0	47.4	103.1	47.4	150.5	199.6	1522.0	571.4	2093.5	2740.7	103.1	47.4	150.5	199.6	1522	571	2093	2741	48	2.4	12	20.4%
47	11.6	28	40	12	474.3	6662.7	44.1	7.7		4	25	100	12.4	90.7	1.0	47.4	103.1	47.4	150.5	199.6	1625.1	618.8	2244.0	2940.3	103.1	47.4	150.5	199.6	1625	619	2244	2940	47	2.6	12	21.9%
46	11.6	28	40	12	474.3	7137	44.1	7.7		4	25	100	12.4	90.7	1.0	47.4	103.1	47.4	150.5	199.6	1728.2	666.3	2394.5	3139.9	103.1	47.4	150.5	199.6	1728	666	2395	3140	46	2.8	12	23.4%
45	11.6	28	40	12	474.3	7611.3	44.1	7.7		4	25	100	12.4	90.7	1.0	47.4	103.1	47.4	150.5	199.6	1831.3	713.7	2545.0	3339.5	103.1	47.4	150.5	199.6	1831	714	2545	3340	45	3.0	12	24.8%
44	11.6	28	40	12	474.3	8085.6	44.1	7.7		4	25	100	12.4	90.7	1.0	47.4	103.1	47.4	150.5	199.6	1934.4	761.1	2695.6	3539.1	103.1	47.4	150.5	199.6	1934	761	2696	3539	44	3.2	12	26.3%
43	11.6	28	40	12	474.3	8559.9	44.1	7.7		4	25	100	12.4	90.7	1.0	47.4	103.1	47.4	150.5	199.6	2037.5	808.6	2846.1	3738.7	103.1	47.4	150.5	199.6	2038	809	2846	3739	43	3.3	12	27.8%
42	11.6	28	40	12	474.3	9034.2	44.1	7.7		4	25	100	12.4	90.7	1.0	47.4	103.1	47.4	150.5	199.6	2140.6	856.0	2996.6	3938.3	103.1	47.4	150.5	199.6	2141	856	2997	3938	42	3.5	12	29.3%
41	11.6	28	40	12	474.3	9508.5	44.1	7.7		4	25	100	12.4	90.7	1.0	47.4	103.1	47.4	150.5	199.6	2243.7	903.4	3147.1	4137.9	103.1	47.4	150.5	199.6	2244	903	3147	4138	41	3.7	12	30.8%
40	11.6	28	40	12	474.3	9982.8	44.1	7.7		4	10	100	12.4	83.6	1.0	47.4	103.1	47.4	150.5	199.6	2346.8	950.9	3297.7	4337.6	103.1	47.4	150.5	199.6	2347	951	3298	4338	40	3.9	12	32.3%
39	11.6	28	40	12	474.3	10457	44.1	7.7		4	25	100	12.4	90.7	1.0	47.4	96.0	47.4	143.4	191.1	2442.8	998.3	3441.1	4528.6	96.0	47.4	143.4	191.1	2443	998	3441	4529	39	4.0	12	33.7%
38	11.6	28	40	12	943.3	11400	87.6	7.7		4	25	100	12.4	172.8	1.0	94.3	103.1	47.4	150.5	199.6	2545.9	1045.7	3591.6	4728.2	103.1	47.4	150.5	199.6	2546	1046	3592	4728	38	4.2	12	35.2%
37	11.6	28	40	12	943.3	12344	87.6	7.8		4	25	100	12.4	172.9	1.0	94.3	185.2	94.3	279.5	373.1	2731.1	1140.0	3871.1	5101.4	185.2	94.3	279.5	373.1	2731	1140	3871	5101	37	4.6	14	32.5%
36	12.6	28	40	12	943.3	13287	87.6	7.8		4	25	100	13.6	172.9	1.0	94.3	186.4	94.3	280.8	374.7	2917.5	1234.4	4151.9	5476.0	186.4	94.3	280.8	374.7	2918	1234	4152	5476	36	4.9	14	34.9%
35	11.6	28	40	12	943.3	14230	87.6	7.8		4	25	100	12.4	172.9	1.0	94.3	185.3	94.3	279.6	373.3	3102.8	1328.7	4431.5	5849.3	185.3	94.3	279.6	373.3	3103	1329	4431	5849	35	5.2	14	37.3%
34	11.6	28	40	12	943.3	15174	87.6	7.8		4	25	100	12.4	172.9	1.0	94.3	185.3	94.3	279.6	373.3	3288.1	1423.0	4711.1	6222.5	185.3	94.3	279.6	373.3	3288	1423	4711	6223	34	5.6	14	39.7%
33	11.6	28	40	12	943.3	16117	87.6	7.8		4	25	100	12.4	172.9	1.0	94.3	185.3	94.3	279.6	373.3	3473.3	1517.4	4990.7	6595.8	185.3	94.3	279.6	373.3	3473	1517	4991	6596	33	5.9	14	42.1%
32	11.6	28	40	12	943.3	17060	87.6	7.8		4	25	100	12.4	172.9	1.0	94.3	185.3	94.3	279.6	373.3	3658.6	1611.7	5270.3	6969.0	185.3	94.3	279.6	373.3	3659	1612	5270	6969	32	6.2	14	44.4%
31	11.6	28	40	12	943.3	18004	87.6	7.8		4	25	100	12.4	172.9	1.0	94.3	185.3	94.3	279.6	373.3	3843.9	1706.0	5549.9	7342.3	185.3	94.3	279.6	373.3	3844	1706	5550	7342	31	6.6	14	46.8%
30	11.6	28	40	12	943.3	18947	87.6	7.8		4	25	100	12.4	172.9	1.0	94.3	185.3	94.3	279.6	373.3	4029.2	1800.4	5829.5	7715.6	185.3	94.3	279.6	373.3	4029	1800	5830	7716	30	6.9	14	49.2%
29	11.6	46	46	12	943.3	19890	87.6	7.8		4	25	100	23.4	172.9	1.0	94.3	196.3	94.3	290.6	386.5	4225.5	1894.7	6120.1	8102.0	196.3	94.3	290.6	386.5	4225	1895	6120	8102	29	3.8	14	27.3%
28	11.6	46	46	12	943.3	20833	87.6	7.8		4	25	100	23.4	172.9	1.0	94.3	196.3	94.3	290.6	386.5	4421.8	1989.0	6410.8	8488.5	196.3	94.3	290.6	386.5	4422	1989	6411	8489	28	4.0	14	28.7%
27	11.6	46	46	12	943.3	21777	87.6	7.8		4	25	100	23.4	172.9	1.0	94.3	196.3	94.3	290.6	386.5	4618.1	2083.3	6701.4	8875.0	196.3	94.3	290.6	386.5	4618	2083	6701	8875	27	4.2	14	30.0%
26	23.3	46	46	12	943.3	22720	87.6	7.8		4	25	100	49.0	172.9	1.0	94.3	221.9	94.3	316.3	417.2	4840.0	2177.7	7017.6	9292.2	221.9	94.3	316.3	417.2	4840	2178	7018	9292	26	4.4	14	31.4%
25	13.6	46	46	12	943.3	23663	87.6	7.8		4	25	100	27.8	172.9	1.0	94.3	200.7	94.3	295.0	391.8	5040.7	2272.0	7312.7	9684.0	200.7	94.3	295.0	391.8	5041	2272	7313	9684	25	4.6	14	32.7%
24	11.6	46	46	12	943.3	24607	87.6	7.8		4	25	100	23.4	172.9	1.0	94.3	196.3	94.3	290.6	386.5	5237.0	2366.3	7603.3	10070.5	196.3	94.3	290.6	386.5	5237	2366	7603	10070	24	4.8	14	34.0%
23	11.6	46	46	12	943.3	25550	87.6	7.8		4	25	100	23.4	172.9	1.0	94.3	196.3	94.3	290.6	386.5	5433.3	2460.7	7893.9	10457.0	196.3	94.3	290.6	386.5	5433	2461	7894	10457	23	4.9	14	35.3%
22	11.6	46	46	12	943.3	26493	87.6	7.8		4	10	100	23.4	158.7	1.0	94.3	196.3	94.3	290.6	386.5	5629.6	2555.0	8184.6	10843.5	196.3	94.3	290.6	386.5	5630	2555	8185	10843	22	5.1	14	36.6%
21	11.6	46	46	12	943.3	27437	87.6	7.8		4	25	100	23.4	172.9	1.0	94.3	182.1	94.3	276.5	369.5	5811.7	2649.3	8461.0	11213.0	182.1	94.3	276.5	369.5	5812	2649	8461	11213	21	5.3	14	37.9%
20	11.6	46	46	12	943.3	28380	87.6	7.8		4	25	100	23.4	172.9	1.0	94.3	196.3	94.3	290.6	386.5	6008.0	2743.7	8751.7	11599.5	196.3	94.3	290.6	386.5	6008	2744	8752	11599	20	5.5	14	39.2%
19	11.6	46	46	12	943.3	29323	87.6	7.8		4	25	100	23.4	172.9	1.0	94.3	196.3	94.3	290.6	386.5	6204.3	2838.0	9042.3	11985.9	196.3	94.3	290.6	386.5	6204	2838	9042	11986	19	5.7	14	40.5%
18	11.6	46	46	12	943.3	30266	87.6	7.8		4	25	100	23.4	172.9	1.0	94.3	196.3	94.3	290.6	386.5	6400.6	2932.3	9332.9	12372.4	196.3	94.3	290.6	386.5	6401	2932	9333	12372	18	5.7	14	40.5%
17	11.6	46	46	12	943.3	31210	87.6	7.8		4	25	100	23.4	172.9	1.0	94.3	196.3	94.3	290.6	386.5	6596.9	3026.6	9623.5	12758.9	196.3	94.3	290.6	386.5	6597	3027	9624	12759	17	6.0	14	40.5%
16	11.6	46	46	12	943.3	32153	87.6	7.8		4	25	100	23.4	172.9	1.0	94.3	196.3	94.3	290.6	386.5	6793.2	3121.0	9914.2	13145.4	196.3	94.3	290.6	386.5	6793	3121	9914	13145	16	6.2	14	40.5%
15	11.6	50	50	12	943.3	33096	87.6	7.8		4	25	100	27.7	172.9	1.0	94.3	200.5	94.3	294.9	391.6	6993.7	3215.3	10209.0	13537.0	200.5	94.3	294.9	391.6	6994	3215	10209	13537	15	5.4	14	40.5%
14	11.6	50	50	12	943.3	34040	87.6	7.8		4	25	100	27.7	172.9	1.0	94.3	200.5	94.3	294.9	391.6	7194.3	3309.6	10503.9	13928.6	200.5	94.3	294.9	391.6	7194	3310	10504	13929	14	5.4	14	40.5%
13	11.6	50	50	12	943.3	34983	87.6	7.8		4	25	100	27.7	172.9	1.0	94.3	200.5	94.3	294.9	391.6	7394.8	3404.0	10798.8	14320.1	200.5	94.3	294.9	391.6	7395	3404	10799	14320	13	5.7	14	40.5%
12	11.6	50	50	12	943.3	35926	87.6	7.8		4	25	100	27.7	172.9	1.0	94.3	200.5	94.3	294.9	391.6	7595.4	3498.3	11093.7	14711.7	200.5	94.3	294.9	391.6	7595	3498	11094	14712	12	5.9	14	40.5%
11	11.6	50	50	12	916.3	36843	85.1	7.6		4	25	100	27.7	168.0	1.0	91.6	200.5	94.3	294.9	391.6	7795.9	3592.6	11388.6	15103.3	200.5	94.3	294.9	391.6	7796	3593	11389	15103	11	6.0	14	40.5%
10	11.6	50	50	12	916.3	37759	85.1	7.6		4	25	100	27.7	168.0	1.0	91.6	195.6	91.6	287.3	381.4	7991.6	3684.3	11675.8	15484.7	195.6	91.6	287.3	381.4	7992	3684	11676	15485	10	6.0	14	40.5%
9	14.0	50	50	12	916.3	38675	85.1	7.6		4	25	100	33.9	168.0	1.0	91.6	201.8	91.6	293.4	388.8	8193.4	3775.9	11969.2	15873.4	201.8	91.6	293.4	388.8	8193	3776	11969	15873	9	6.3	14	40.5%
8	11.6	50	50	12	916.3	39591	85.1	7.6		4	25	100	27.7	168.0	1.0	91.6	195.6	91.6	287.3	381.4	8389.0	3867.5	12256.5	16254.8	195.6	91.6	287.3	381.4	8389	3868	12256	16255	8	6.5	14	40.5%
7	11.6	50	50	12	916.3	40508	85.1	7.6		4	25	100	27.7	168.0	1.0	91.6	195.6	91.6	287.3	381.4	8584.6	3959.1	12543.7	16636.2	195.6	91.6	287.3	381.4	8585	3959	12544	16636	7	6.7	14	40.5%
6	11.6	50	50	12	916.3	41424	85.1	7.6		4	25	100	27.7	168.0	1.0	91.6	195.6	91.6	287.3	381.4	8780.2	4050.8	12831.0	17017.5	195.6	91.6	287.3	381.4	8780	4051	12831	17018	6	6.7	14	40.5%
5	11.6	50	50	12	916.3	42340	85.1	7.6		4	25	100	27.7	168.0	1.0	91.6	195.6	91.6	287.3	381.4	8975.9	4142.4	13118.3	17398.9	195.6	91.6	287.3	381.4	8976	4142	13118	17399	5	7.0	14	40.5%
4	11.6	50	50	12	916.3	43257	85.1	7.6		4	10	100	27.7	154.2	1.0	91.6	195.6	91.6	287.3	381.4	9171.5	4234.0	13405.5	17780.2	195.6	91.6	287.3	381.4	9171	4234	13406	17780	4	7.1	14	40.5%
3	11.6	50	50	12	916.3	44173	85.1	7.6		4	10	100	27.7	154.2	1.0	91.6	181.9	91.6	273.5	364.9	9353.3	4325.7	13679.0	18145.1	181.9	91.6	273.5	364.9	9353	4326	13679	18145	3	7.3	14	40.5%
2	21.0	50	50	12	916.3	45089	85.1	7.6		4	25	100	52.1	168.0	1.0	91.6	206.3	91.6	297.9	394.2	9559.6	4417.3	13976.9	18539.2	206.3	91.6	297.9	394.2	9560	4417	13977	18539	2	7.3	14	40.5%
1	30.0	50	50	12	916.3	46006	85.1	7.6		4	25	100	75.5	168.0	1.0	91.6	243.5	91.6	335.1	438.8	9803.1	4508.9	14312.0	18978.0	243.5	91.6	335.1	438.8	9803	4509	14312	18978	1	7.6	14	40.5%
Cellar (parki	16.2	50	50	12	916.3	46922	85.1			4	25	100	39.5	160.4	1.0	91.6	207.4	91.6	299.1	395.5	10010.6	4600.6	14611.1	19373.6	207.4	91.6	299.1	395.5	10011	4601	14611	19374	parking)	7.7	14	40.5%
																													10011	**4601**	**14611**	**19374**				
																													DL	**LL**	**SERV.L**	**FACT. L**				

* Sub-cellar floor slab is structural slab

*Load including lowest level slab

Column Axial Load

Project : 101 Murray Street

DATE: Jan 20, 2015

Column 6

FL.	STORY HEIGHT (ft)	EQUIV.SECT AREA (in2) (B)	(D)	SLAB THK. (in)	TRIBUTARY AREA Floor (ft2)	Accum (ft2)	Floor (m2)	ADD. Dead Load (kips)	ADD. Live Load (kips)	K Element Factor	DSTRB. LOAD SDL (lb/ft2)	LL (lb/ft2)	DEAD LOAD COLMN (kips)	SLAB (kips)	LIVE LOAD RED. RED. F.	RED L.L(kips)	WITHOUT LOAD REDUCTION FLOOR LOAD DL (kips)	LL (kips)	SERV.L (kips)	FACT. L (kips)	SUMMATION LOAD DL (kips)	LL (kips)	SERV.L (kips)	FACT. L (kips)	WITH LIVE LOAD REDUCTION FLOOR LOAD DL (kips)	LL (kips)	SERV.L (kips)	FACT. L (kips)	SUMMATION LOAD DL (kips)	LL (kips)	SERV.L (kips)	FACT. L (kips)	FL.	Stress (ksi)	Con. C (ksi)	Ratio
61		0	0	0	0	0	0.0			4	0	0	0.00	0.00	0.000	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	61			
60	14.0	0	0	0	355.6	355.6	33.0	0		4	25	100	0.00	8.89	1.000	35.56	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	60			
59	14.0	1	907.5	16	355.6	711.2	33.0	7.3		4	300	100	11.97	185.10	1.000	35.56	20.9	35.6	56.4	81.9	20.9	35.6	56.4	81.9	20.9	35.6	56.4	81.9	21	36	56	82	59	0.1	12	0.8%
58	16.3	1	907.5	16	355.6	1066.8	33.0	7.3		4	25	100	14.18	87.31	1.000	35.56	199.3	35.6	234.8	296.0	220.1	71.1	291.3	378.0	199.3	35.6	234.8	296.0	220	71	291	378	58	0.4	12	3.5%
57	14.0	1	907.5	16	355.6	1422.4	33.0	7.3		4	10	100	11.97	81.98	1.000	35.56	99.3	35.6	134.8	176.0	319.4	106.7	426.1	554.0	99.3	35.6	134.8	176.0	319	107	426	554	57	0.6	12	5.1%
56	14.0	1	907.5	16	355.6	1778	33.0	7.3		4	25	100	11.97	87.31	1.000	35.56	93.9	35.6	129.5	169.6	413.4	142.2	555.6	723.6	93.9	35.6	129.5	169.6	413	142	556	724	56	0.8	12	6.6%
55	14.0	1	907.5	16	355.6	2133.6	33.0	7.3		4	25	100	11.97	87.31	1.000	35.56	99.3	35.6	134.8	176.0	512.7	177.8	690.5	899.7	99.3	35.6	134.8	176.0	513	178	690	900	55	1.0	12	8.3%
54	12.8	1	907.5	16	355.6	2489.2	33.0	7.3		4	25	100	10.83	87.31	1.000	35.56	98.1	35.6	133.7	174.7	610.8	213.4	824.2	1074.3	98.1	35.6	133.7	174.7	611	213	824	1074	54	1.2	12	9.9%
53	11.8	1	907.5	16	355.6	2844.8	33.0	7.3		4	25	100	9.89	87.31	1.000	35.56	97.2	35.6	132.8	173.5	708.0	248.9	956.9	1247.9	97.2	35.6	132.8	173.5	708	249	957	1248	53	1.4	12	11.5%
52	11.8	1	907.5	16	355.6	3200.4	33.0	7.3		4	25	100	9.89	87.31	1.000	35.56	97.2	35.6	132.8	173.5	805.2	284.5	1089.7	1421.4	97.2	35.6	132.8	173.5	805	284	1090	1421	52	1.6	12	13.1%
51	11.8	28	40	16	355.4	3555.8	33.0	7.7		4	25	100	12.20	87.67	1.000	35.54	99.5	35.6	135.1	176.3	904.7	320.0	1224.7	1597.7	99.5	35.6	135.1	176.3	905	320	1225	1598	51	1.4	12	11.9%
50	12.6	28	40	16	355.4	3911.2	33.0	7.7		4	25	100	13.17	87.67	1.000	35.54	100.8	35.5	136.4	177.9	1005.5	355.6	1361.1	1775.6	100.8	35.5	136.4	177.9	1006	356	1361	1776	50	1.6	12	13.2%
49	13.6	28	40	12	355.4	4266.6	33.0	7.7		4	25	100	14.73	69.90	1.000	35.54	102.4	35.5	137.9	179.7	1107.9	391.1	1499.1	1955.3	102.4	35.5	137.9	179.7	1108	391	1499	1955	49	1.7	12	14.5%
48	11.6	28	40	12	355.4	4622	33.0	7.7		4	25	100	12.40	69.90	1.000	35.54	82.3	35.5	117.8	155.6	1190.2	426.7	1616.9	2110.9	82.3	35.5	117.8	155.6	1190	427	1617	2111	48	1.9	12	15.7%
47	11.6	28	40	12	355.4	4977.4	33.0	7.7		4	25	100	12.40	69.90	1.000	35.54	82.3	35.5	117.8	155.6	1272.5	462.2	1734.7	2266.5	82.3	35.5	117.8	155.6	1273	462	1735	2267	47	2.0	12	16.9%
46	11.6	28	40	12	355.4	5332.8	33.0	7.7		4	25	100	12.40	69.90	1.000	35.54	82.3	35.5	117.8	155.6	1354.8	497.7	1852.5	2422.2	82.3	35.5	117.8	155.6	1355	498	1853	2422	46	2.2	12	18.0%
45	11.6	28	40	12	355.4	5688.2	33.0	7.7		4	25	100	12.40	69.90	1.000	35.54	82.3	35.5	117.8	155.6	1437.1	533.3	1970.4	2577.8	82.3	35.5	117.8	155.6	1437	533	1970	2578	45	2.3	12	19.2%
44	11.6	28	40	12	355.4	6043.6	33.0	7.7		4	25	100	12.40	69.90	1.000	35.54	82.3	35.5	117.8	155.6	1519.4	568.8	2088.2	2733.4	82.3	35.5	117.8	155.6	1519	569	2088	2733	44	2.4	12	20.3%
43	11.6	28	40	12	355.4	6399	33.0	7.7		4	25	100	12.40	69.90	1.000	35.54	82.3	35.5	117.8	155.6	1601.7	604.4	2206.0	2889.0	82.3	35.5	117.8	155.6	1602	604	2206	2889	43	2.6	12	21.5%
42	11.6	28	40	12	355.4	6754.4	33.0	7.7		4	25	100	12.40	69.90	1.000	35.54	82.3	35.5	117.8	155.6	1684.0	639.9	2323.9	3044.6	82.3	35.5	117.8	155.6	1684	640	2324	3045	42	2.7	12	22.7%
41	11.6	28	40	12	355.4	7109.8	33.0	7.7		4	25	100	12.40	69.90	1.000	35.54	82.3	35.5	117.8	155.6	1766.3	675.4	2441.7	3200.2	82.3	35.5	117.8	155.6	1766	675	2442	3200	41	2.9	12	23.8%
40	11.6	28	40	12	355.4	7465.2	33.0	7.7		4	10	100	12.40	64.56	1.000	35.54	82.3	35.5	117.8	155.6	1848.6	711.0	2559.5	3355.8	82.3	35.5	117.8	155.6	1849	711	2560	3356	40	3.0	12	25.0%
39	11.6	28	40	12	355.4	7820.6	33.0	7.7		4	25	100	12.40	69.90	1.000	35.54	77.0	35.5	112.5	149.2	1925.5	746.5	2672.0	3505.0	77.0	35.5	112.5	149.2	1926	747	2672	3505	39	3.1	12	26.1%
38										4	25	100	0.00	0.00	0.000	0.00	69.9	35.5	105.4	140.7	1995.4	782.1	2777.5	3645.8	69.9	35.5	105.4	140.7	1995	782	2777	3646	38		12	
37										4	25	100	0.00	0.00	0.000	0.00	0.0	0.0	0.0	0.0	1995.4	782.1	2777.5	3645.8	0.0	0.0	0.0	0.0	1995	782	2777	3646	37		14	
36										4	25	100	0.00	0.00	0.000	0.00	0.0	0.0	0.0	0.0	1995.4	782.1	2777.5	3645.8	0.0	0.0	0.0	0.0	1995	782	2777	3646	36		14	
35										4	25	100	0.00	0.00	0.000	0.00	0.0	0.0	0.0	0.0	1995.4	782.1	2777.5	3645.8	0.0	0.0	0.0	0.0	1995	782	2777	3646	35		14	
34										4	25	100	0.00	0.00	0.000	0.00	0.0	0.0	0.0	0.0	1995.4	782.1	2777.5	3645.8	0.0	0.0	0.0	0.0	1995	782	2777	3646	34		14	
33										4	25	100	0.00	0.00	0.000	0.00	0.0	0.0	0.0	0.0	1995.4	782.1	2777.5	3645.8	0.0	0.0	0.0	0.0	1995	782	2777	3646	33		14	
32										4	25	100	0.00	0.00	0.000	0.00	0.0	0.0	0.0	0.0	1995.4	782.1	2777.5	3645.8	0.0	0.0	0.0	0.0	1995	782	2777	3646	32		14	
31										4	25	100	0.00	0.00	0.000	0.00	0.0	0.0	0.0	0.0	1995.4	782.1	2777.5	3645.8	0.0	0.0	0.0	0.0	1995	782	2777	3646	31		14	
30										4	25	100	0.00	0.00	0.000	0.00	0.0	0.0	0.0	0.0	1995.4	782.1	2777.5	3645.8	0.0	0.0	0.0	0.0	1995	782	2777	3646	30		14	
29										4	25	100	0.00	0.00	0.000	0.00	0.0	0.0	0.0	0.0	1995.4	782.1	2777.5	3645.8	0.0	0.0	0.0	0.0	1995	782	2777	3646	29		14	
28										4	25	100	0.00	0.00	0.000	0.00	0.0	0.0	0.0	0.0	1995.4	782.1	2777.5	3645.8	0.0	0.0	0.0	0.0	1995	782	2777	3646	28		14	
27										4	25	100	0.00	0.00	0.000	0.00	0.0	0.0	0.0	0.0	1995.4	782.1	2777.5	3645.8	0.0	0.0	0.0	0.0	1995	782	2777	3646	27		14	
26										4	25	100	0.00	0.00	0.000	0.00	0.0	0.0	0.0	0.0	1995.4	782.1	2777.5	3645.8	0.0	0.0	0.0	0.0	1995	782	2777	3646	26		14	
25										4	25	100	0.00	0	0.000	0.00	0.0	0.0	0.0	0.0	1995.4	782.1	2777.5	3645.8	0.0	0.0	0.0	0.0	1995	782	2777	3646	25		14	
24										4	25	100	0.00	0.00	0.000	0.00	0.0	0.0	0.0	0.0	1995.4	782.1	2777.5	3645.8	0.0	0.0	0.0	0.0	1995	782	2777	3646	24		14	
23										4	25	100	0.00	0.00	0.000	0.00	0.0	0.0	0.0	0.0	1995.4	782.1	2777.5	3645.8	0.0	0.0	0.0	0.0	1995	782	2777	3646	23		14	
22										4	10	100	0.00	0.00	0.000	0.00	0.0	0.0	0.0	0.0	1995.4	782.1	2777.5	3645.8	0.0	0.0	0.0	0.0	1995	782	2777	3646	22		14	
21										4	25	100	0.00	0.00	0.000	0.00	0.0	0.0	0.0	0.0	1995.4	782.1	2777.5	3645.8	0.0	0.0	0.0	0.0	1995	782	2777	3646	21		14	
20										4	25	100	0.00	0.00	0.000	0.00	0.0	0.0	0.0	0.0	1995.4	782.1	2777.5	3645.8	0.0	0.0	0.0	0.0	1995	782	2777	3646	20		14	
19										4	25	100	0.00	0.00	0.000	0.00	0.0	0.0	0.0	0.0	1995.4	782.1	2777.5	3645.8	0.0	0.0	0.0	0.0	1995	782	2777	3646	19		14	
18										4	25	100	0.00	0.00	0.000	0.00	0.0	0.0	0.0	0.0	1995.4	782.1	2777.5	3645.8	0.0	0.0	0.0	0.0	1995	782	2777	3646	18		14	
17										4	25	100	0.00	0.00	0.000	0.00	0.0	0.0	0.0	0.0	1995.4	782.1	2777.5	3645.8	0.0	0.0	0.0	0.0	1995	782	2777	3646	17		14	
16										4	25	100	0.00	0.00	0.000	0.00	0.0	0.0	0.0	0.0	1995.4	782.1	2777.5	3645.8	0.0	0.0	0.0	0.0	1995	782	2777	3646	16		14	
15										4	25	100	0.00	0.00	0.000	0.00	0.0	0.0	0.0	0.0	1995.4	782.1	2777.5	3645.8	0.0	0.0	0.0	0.0	1995	782	2777	3646	15		14	
14										4	25	100	0.00	0.00	0.000	0.00	0.0	0.0	0.0	0.0	1995.4	782.1	2777.5	3645.8	0.0	0.0	0.0	0.0	1995	782	2777	3646	14		14	
13										4	25	100	0.00	0.00	0.000	0.00	0.0	0.0	0.0	0.0	1995.4	782.1	2777.5	3645.8	0.0	0.0	0.0	0.0	1995	782	2777	3646	13		14	
12										4	25	100	0.00	0.00	0.000	0.00	0.0	0.0	0.0	0.0	1995.4	782.1	2777.5	3645.8	0.0	0.0	0.0	0.0	1995	782	2777	3646	12		14	
11										4	25	100	0.00	0.00	0.000	0.00	0.0	0.0	0.0	0.0	1995.4	782.1	2777.5	3645.8	0.0	0.0	0.0	0.0	1995	782	2777	3646	11		14	
10										4	25	100	0.00	0.00	0.000	0.00	0.0	0.0	0.0	0.0	1995.4	782.1	2777.5	3645.8	0.0	0.0	0.0	0.0	1995	782	2777	3646	10		14	
9										4	25	100	0.00	0.00	0.000	0.00	0.0	0.0	0.0	0.0	1995.4	782.1	2777.5	3645.8	0.0	0.0	0.0	0.0	1995	782	2777	3646	9		14	
8										4	25	100	0.00	0.00	0.000	0.00	0.0	0.0	0.0	0.0	1995.4	782.1	2777.5	3645.8	0.0	0.0	0.0	0.0	1995	782	2777	3646	8		14	
7										4	25	100	0.00	0.00	0.000	0.00	0.0	0.0	0.0	0.0	1995.4	782.1	2777.5	3645.8	0.0	0.0	0.0	0.0	1995	782	2777	3646	7		14	
6										4	25	100	0.00	0.00	0.000	0.00	0.0	0.0	0.0	0.0	1995.4	782.1	2777.5	3645.8	0.0	0.0	0.0	0.0	1995	782	2777	3646	6		14	
5										4	25	100	0.00	0.00	0.000	0.00	0.0	0.0	0.0	0.0	1995.4	782.1	2777.5	3645.8	0.0	0.0	0.0	0.0	1995	782	2777	3646	5		14	
4										4	10	100	0.00	0.00	0.000	0.00	0.0	0.0	0.0	0.0	1995.4	782.1	2777.5	3645.8	0.0	0.0	0.0	0.0	1995	782	2777	3646	4		14	
3										4	10	100	0.00	0.00	0.000	0.00	0.0	0.0	0.0	0.0	1995.4	782.1	2777.5	3645.8	0.0	0.0	0.0	0.0	1995	782	2777	3646	3		14	
2										4	25	100	0.00	0.00	0.000	0.00	0.0	0.0	0.0	0.0	1995.4	782.1	2777.5	3645.8	0.0	0.0	0.0	0.0	1995	782	2777	3646	2		14	
1										4	25	100	0.00	0.00	0.000	0.00	0.0	0.0	0.0	0.0	1995.4	782.1	2777.5	3645.8	0.0	0.0	0.0	0.0	1995	782	2777	3646	1		14	
Cellar (parki	16.2	1	2704	12	916.3	916.3	85.1			4	25	100	42.72	160.35	1.000	91.63	42.7	0.0	42.7	51.3	2038.1	782.1	2820.2	3697.0	42.7	0.0	42.7	51.3	2038	782	2820	3697	parking)	1.4	14	
																													DL	**LL**	**SERV.L**	**FACT. L**				

* Sub-cellar floor slab is structural slab

*Load including lowest level slab

Column Axial Load

Project : 101 Murray Street

DATE: Jan 20, 2015

Column 7

FL.	STORY HEIGHT (ft)	EQUIV.SECT AREA (in2) (B)	(D)	SLAB THK. (in)	TRIBUTARY AREA Floor (ft2)	Accum (ft2)	Floor (m2)	ADD. Dead Load (kips)	ADD. Live Load (kips)	K Element Factor	DSTRB. LOAD SDL (lb/ft2)	LL (lb/ft2)	DEAD LOAD COLMN (kips)	SLAB (kips)	LIVE LOAD RED. RED. F.	RED L.L(kips)	WITHOUT LOAD REDUCTION FLOOR LOAD DL (kips)	LL (kips)	SERV.L (kips)	FACT. L (kips)	SUMMATION LOAD DL (kips)	LL (kips)	SERV.L (kips)	FACT. L (kips)	WITH LIVE LOAD REDUCTION FLOOR LOAD DL (kips)	LL (kips)	SERV.L (kips)	FACT. L (kips)	SUMMATION LOAD DL (kips)	LL (kips)	SERV.L (kips)	FACT. L (kips)	FL.	Stress (ksi)	Con. C (ksi)	Ratio
61		0	0	0	0	0	0.0			4	0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	61			
60	14.0	0	0	0	476.8	476.8	44.3	0.0		4	25	100	0.0	11.9	1.0	47.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	60			
59	14.0	1	907.5	16	476.8	953.6	44.3	7.3		4	300	100	12.0	245.7	1.0	47.7	23.9	47.7	71.6	105.0	23.9	47.7	71.6	105.0	23.9	47.7	71.6	105.0	24	48	72	105	59	0.1	12	1.0%
58	16.3	1	907.5	16	476.8	1430.4	44.3	7.3		4	25	100	14.2	114.6	1.0	47.7	259.9	47.7	307.6	388.1	283.8	95.4	379.1	493.1	259.9	47.7	307.6	388.1	284	95	379	493	58	0.5	12	4.5%
57	14.0	1	907.5	16	476.8	1907.2	44.3	7.3		4	10	100	12.0	107.4	1.0	47.7	126.6	47.7	174.2	228.2	410.3	143.0	553.4	721.3	126.6	47.7	174.2	228.2	410	143	553	721	57	0.8	12	6.6%
56	14.0	1	907.5	16	476.8	2384	44.3	7.3		4	25	100	12.0	114.6	1.0	47.7	119.4	47.7	167.1	219.6	529.7	190.7	720.4	940.8	119.4	47.7	167.1	219.6	530	191	720	941	56	1.0	12	8.6%
55	14.0	1	907.5	16	476.8	2860.8	44.3	7.3		4	25	100	12.0	114.6	1.0	47.7	126.6	47.7	174.2	228.2	656.3	238.4	894.7	1169.0	126.6	47.7	174.2	228.2	656	238	895	1169	55	1.3	12	10.7%
54	12.8	1	907.5	16	476.8	3337.6	44.3	7.3		4	25	100	10.8	114.6	1.0	47.7	125.4	47.7	173.1	226.8	781.7	286.1	1067.8	1395.8	125.4	47.7	173.1	226.8	782	286	1068	1396	54	1.5	12	12.8%
53	11.8	1	907.5	16	476.8	3814.4	44.3	7.3		4	25	100	9.9	114.6	1.0	47.7	124.5	47.7	172.1	225.6	906.2	333.8	1239.9	1621.4	124.5	47.7	172.1	225.6	906	334	1240	1621	53	1.8	12	14.9%
52	11.8	1	907.5	16	476.8	4291.2	44.3	7.3		4	25	100	9.9	114.6	1.0	47.7	124.5	47.7	172.1	225.6	1030.6	381.4	1412.1	1847.1	124.5	47.7	172.1	225.6	1031	381	1412	1847	52	2.0	12	17.0%
51	11.8	28	40	16	474.3	4765.5	44.1	7.2		4	25	100	12.2	113.9	1.0	47.4	126.8	47.7	174.5	228.4	1157.4	429.1	1586.5	2075.5	126.8	47.7	174.5	228.4	1157	429	1587	2075	51	1.9	12	15.4%
50	12.6	28	40	16	474.3	5239.8	44.1	7.2		4	25	100	13.2	113.9	1.0	47.4	127.1	47.4	174.5	228.4	1284.5	476.6	1761.0	2303.9	127.1	47.4	174.5	228.4	1284	477	1761	2304	50	2.1	12	17.1%
49	13.6	28	40	12	474.3	5714.1	44.1	7.2		4	25	100	14.7	90.2	1.0	47.4	128.6	47.4	176.1	230.3	1413.1	524.0	1937.1	2534.1	128.6	47.4	176.1	230.3	1413	524	1937	2534	49	2.3	12	18.9%
48	11.6	28	40	12	474.3	6188.4	44.1	7.2		4	25	100	12.4	90.2	1.0	47.4	102.6	47.4	150.0	199.0	1515.7	571.4	2087.2	2733.1	102.6	47.4	150.0	199.0	1516	571	2087	2733	48	2.4	12	20.3%
47	11.6	28	40	12	474.3	6662.7	44.1	7.2		4	25	100	12.4	90.2	1.0	47.4	102.6	47.4	150.0	199.0	1618.3	618.8	2237.2	2932.2	102.6	47.4	150.0	199.0	1618	619	2237	2932	47	2.6	12	21.8%
46	11.6	28	40	12	474.3	7137	44.1	7.2		4	25	100	12.4	90.2	1.0	47.4	102.6	47.4	150.0	199.0	1720.9	666.3	2387.2	3131.2	102.6	47.4	150.0	199.0	1721	666	2387	3131	46	2.8	12	23.3%
45	11.6	28	40	12	474.3	7611.3	44.1	7.2		4	25	100	12.4	90.2	1.0	47.4	102.6	47.4	150.0	199.0	1823.5	713.7	2537.2	3330.2	102.6	47.4	150.0	199.0	1824	714	2537	3330	45	3.0	12	24.8%
44	11.6	28	40	12	474.3	8085.6	44.1	7.2		4	25	100	12.4	90.2	1.0	47.4	102.6	47.4	150.0	199.0	1926.1	761.1	2687.3	3529.2	102.6	47.4	150.0	199.0	1926	761	2687	3529	44	3.2	12	26.3%
43	11.6	28	40	12	474.3	8559.9	44.1	7.2		4	25	100	12.4	90.2	1.0	47.4	102.6	47.4	150.0	199.0	2028.7	808.6	2837.3	3728.2	102.6	47.4	150.0	199.0	2029	809	2837	3728	43	3.3	12	27.7%
42	11.6	28	40	12	474.3	9034.2	44.1	7.2		4	25	100	12.4	90.2	1.0	47.4	102.6	47.4	150.0	199.0	2131.3	856.0	2987.3	3927.2	102.6	47.4	150.0	199.0	2131	856	2987	3927	42	3.5	12	29.2%
41	11.6	28	40	12	474.3	9508.5	44.1	7.2		4	25	100	12.4	90.2	1.0	47.4	102.6	47.4	150.0	199.0	2233.9	903.4	3137.3	4126.2	102.6	47.4	150.0	199.0	2234	903	3137	4126	41	3.7	12	30.7%
40	11.6	28	40	12	474.3	9982.8	44.1	7.2		4	10	100	12.4	83.1	1.0	47.4	102.6	47.4	150.0	199.0	2336.5	950.9	3287.4	4325.2	102.6	47.4	150.0	199.0	2337	951	3287	4325	40	3.9	12	32.2%
39	11.6	28	40	12	474.3	10457	44.1	7.2		4	25	100	12.4	90.2	1.0	47.4	95.5	47.4	142.9	190.5	2432.0	998.3	3430.3	4515.7	95.5	47.4	142.9	190.5	2432	998	3430	4516	39	4.0	12	33.6%
38	11.6	28	40	12	943.3	11400	87.6	7.2		4	25	100	12.4	172.3	1.0	94.3	102.6	47.4	150.0	199.0	2534.6	1045.7	3580.3	4714.7	102.6	47.4	150.0	199.0	2535	1046	3580	4715	38	4.2	12	35.1%
37	11.6	28	40	12	943.3	12344	87.6	7.2		4	25	100	12.4	172.3	1.0	94.3	184.7	94.3	279.0	372.5	2719.3	1140.0	3859.3	5087.2	184.7	94.3	279.0	372.5	2719	1140	3859	5087	37	4.5	14	32.4%
36	12.6	28	40	12	943.3	13287	87.6	7.2		4	25	100	13.6	172.3	1.0	94.3	185.8	94.3	280.2	373.9	2905.1	1234.4	4139.5	5461.1	185.8	94.3	280.2	373.9	2905	1234	4139	5461	36	4.9	14	34.8%
35	11.6	28	40	12	943.3	14230	87.6	7.2		4	25	100	12.4	172.3	1.0	94.3	184.7	94.3	279.0	372.5	3089.8	1328.7	4418.5	5833.7	184.7	94.3	279.0	372.5	3090	1329	4418	5834	35	5.2	14	37.2%
34	11.6	28	40	12	943.3	15174	87.6	7.2		4	25	100	12.4	172.3	1.0	94.3	184.7	94.3	279.0	372.5	3274.5	1423.0	4697.5	6206.2	184.7	94.3	279.0	372.5	3274	1423	4698	6206	34	5.5	14	39.6%
33	11.6	28	40	12	943.3	16117	87.6	7.2		4	25	100	12.4	172.3	1.0	94.3	184.7	94.3	279.0	372.5	3459.1	1517.4	4976.5	6578.7	184.7	94.3	279.0	372.5	3459	1517	4977	6579	33	5.9	14	42.0%
32	11.6	28	40	12	943.3	17060	87.6	7.2		4	25	100	12.4	172.3	1.0	94.3	184.7	94.3	279.0	372.5	3643.8	1611.7	5255.5	6951.3	184.7	94.3	279.0	372.5	3644	1612	5256	6951	32	6.2	14	44.3%
31	11.6	28	40	12	943.3	18004	87.6	7.2		4	25	100	12.4	172.3	1.0	94.3	184.7	94.3	279.0	372.5	3828.5	1706.0	5534.5	7323.8	184.7	94.3	279.0	372.5	3828	1706	5535	7324	31	6.5	14	46.7%
30	11.6	28	40	12	943.3	18947	87.6	7.2		4	25	100	12.4	172.3	1.0	94.3	184.7	94.3	279.0	372.5	4013.2	1800.4	5813.5	7696.4	184.7	94.3	279.0	372.5	4013	1800	5814	7696	30	6.9	14	49.1%
29	11.6	46	46	12	943.3	19890	87.6	7.2		4	25	100	23.4	172.3	1.0	94.3	195.7	94.3	290.0	385.8	4208.9	1894.7	6103.5	8082.1	195.7	94.3	290.0	385.8	4209	1895	6104	8082	29	3.8	14	27.3%
28	11.6	46	46	12	943.3	20833	87.6	7.2		4	25	100	23.4	172.3	1.0	94.3	195.7	94.3	290.0	385.8	4404.6	1989.0	6393.6	8467.9	195.7	94.3	290.0	385.8	4405	1989	6394	8468	28	4.0	14	28.6%
27	11.6	46	46	12	943.3	21777	87.6	7.2		4	25	100	23.4	172.3	1.0	94.3	195.7	94.3	290.0	385.8	4600.3	2083.3	6683.6	8853.6	195.7	94.3	290.0	385.8	4600	2083	6684	8854	27	4.2	14	29.9%
26	23.3	46	46	12	943.3	22720	87.6	7.2		4	25	100	49.0	172.3	1.0	94.3	221.3	94.3	315.7	416.5	4821.6	2177.7	6999.2	9270.2	221.3	94.3	315.7	416.5	4822	2178	6999	9270	26	4.4	14	31.3%
25	13.6	46	46	12	943.3	23663	87.6	7.2		4	25	100	27.8	172.3	1.0	94.3	200.1	94.3	294.4	391.1	5021.7	2272.0	7293.7	9661.2	200.1	94.3	294.4	391.1	5022	2272	7294	9661	25	4.6	14	32.6%
24	11.6	46	46	12	943.3	24607	87.6	7.2		4	25	100	23.4	172.3	1.0	94.3	195.7	94.3	290.0	385.8	5217.4	2366.3	7583.7	10047.0	195.7	94.3	290.0	385.8	5217	2366	7584	10047	24	4.7	14	33.9%
23	11.6	46	46	12	943.3	25550	87.6	7.2		4	25	100	23.4	172.3	1.0	94.3	195.7	94.3	290.0	385.8	5413.1	2460.7	7873.7	10432.7	195.7	94.3	290.0	385.8	5413	2461	7874	10433	23	4.9	14	35.2%
22	11.6	46	46	12	943.3	26493	87.6	7.2		4	10	100	23.4	158.1	1.0	94.3	195.7	94.3	290.0	385.8	5608.8	2555.0	8163.8	10818.5	195.7	94.3	290.0	385.8	5609	2555	8164	10819	22	5.1	14	36.5%
21	11.6	46	46	12	943.3	27437	87.6	7.2		4	25	100	23.4	172.3	1.0	94.3	181.5	94.3	275.9	368.8	5790.3	2649.3	8439.6	11187.3	181.5	94.3	275.9	368.8	5790	2649	8440	11187	21	5.3	14	37.8%
20	11.6	46	46	12	943.3	28380	87.6	7.2		4	25	100	23.4	172.3	1.0	94.3	195.7	94.3	290.0	385.8	5986.0	2743.7	8729.7	11573.1	195.7	94.3	290.0	385.8	5986	2744	8730	11573	20	5.5	14	39.1%
19	11.6	46	46	12	943.3	29323	87.6	7.2		4	25	100	23.4	172.3	1.0	94.3	195.7	94.3	290.0	385.8	6181.7	2838.0	9019.7	11958.8	195.7	94.3	290.0	385.8	6182	2838	9020	11959	19	5.7	14	40.4%
18	11.6	46	46	12	943.3	30266	87.6	7.2		4	25	100	23.4	172.3	1.0	94.3	195.7	94.3	290.0	385.8	6377.4	2932.3	9309.7	12344.6	195.7	94.3	290.0	385.8	6377	2932	9310	12345	18	5.7	14	40.4%
17	11.6	46	46	12	943.3	31210	87.6	7.2		4	25	100	23.4	172.3	1.0	94.3	195.7	94.3	290.0	385.8	6573.1	3026.6	9599.7	12730.3	195.7	94.3	290.0	385.8	6573	3027	9600	12730	17	6.0	14	40.4%
16	11.6	46	46	12	943.3	32153	87.6	7.2		4	25	100	23.4	172.3	1.0	94.3	195.7	94.3	290.0	385.8	6768.8	3121.0	9889.8	13116.1	195.7	94.3	290.0	385.8	6769	3121	9890	13116	16	6.2	14	40.4%
15	11.6	50	50	12	943.3	33096	87.6	7.2		4	25	100	27.7	172.3	1.0	94.3	199.9	94.3	294.3	390.9	6968.7	3215.3	10184.0	13507.0	199.9	94.3	294.3	390.9	6969	3215	10184	13507	15	5.4	14	40.4%
14	11.6	50	50	12	943.3	34040	87.6	7.2		4	25	100	27.7	172.3	1.0	94.3	199.9	94.3	294.3	390.9	7168.7	3309.6	10478.3	13897.8	199.9	94.3	294.3	390.9	7169	3310	10478	13898	14	5.4	14	40.4%
13	11.6	50	50	12	943.3	34983	87.6	7.2		4	25	100	27.7	172.3	1.0	94.3	199.9	94.3	294.3	390.9	7368.6	3404.0	10772.6	14288.7	199.9	94.3	294.3	390.9	7369	3404	10773	14289	13	5.7	14	40.4%
12	11.6	50	50	12	943.3	35926	87.6	7.2		4	25	100	27.7	172.3	1.0	94.3	199.9	94.3	294.3	390.9	7568.6	3498.3	11066.9	14679.6	199.9	94.3	294.3	390.9	7569	3498	11067	14680	12	5.9	14	40.4%
11	11.6	50	50	12	916.3	36843	85.1	7.0		4	25	100	27.7	167.4	1.0	91.6	199.9	94.3	294.3	390.9	7768.5	3592.6	11361.2	15070.4	199.9	94.3	294.3	390.9	7769	3593	11361	15070	11	6.0	14	40.4%
10	11.6	50	50	12	916.3	37759	85.1	7.0		4	25	100	27.7	167.4	1.0	91.6	195.0	91.6	286.7	380.6	7963.6	3684.3	11647.8	15451.1	195.0	91.6	286.7	380.6	7964	3684	11648	15451	10	6.0	14	40.4%
9	14.0	50	50	12	916.3	38675	85.1	7.0		4	25	100	33.9	167.4	1.0	91.6	201.2	91.6	292.8	388.1	8164.8	3775.9	11940.6	15839.1	201.2	91.6	292.8	388.1	8165	3776	11941	15839	9	6.3	14	40.4%
8	11.6	50	50	12	916.3	39591	85.1	7.0		4	25	100	27.7	167.4	1.0	91.6	195.0	91.6	286.7	380.6	8359.8	3867.5	12227.3	16219.8	195.0	91.6	286.7	380.6	8360	3868	12227	16220	8	6.5	14	40.4%
7	11.6	50	50	12	916.3	40508	85.1	7.0		4	25	100	27.7	167.4	1.0	91.6	195.0	91.6	286.7	380.6	8554.8	3959.1	12513.9	16600.4	195.0	91.6	286.7	380.6	8555	3959	12514	16600	7	6.6	14	40.4%
6	11.6	50	50	12	916.3	41424	85.1	7.0		4	25	100	27.7	167.4	1.0	91.6	195.0	91.6	286.7	380.6	8749.8	4050.8	12800.6	16981.0	195.0	91.6	286.7	380.6	8750	4051	12801	16981	6	6.6	14	40.4%
5	11.6	50	50	12	916.3	42340	85.1	7.0		4	25	100	27.7	167.4	1.0	91.6	195.0	91.6	286.7	380.6	8944.9	4142.4	13087.3	17361.7	195.0	91.6	286.7	380.6	8945	4142	13087	17362	5	6.9	14	40.4%
4	11.6	50	50	12	916.3	43257	85.1	7.0		4	10	100	27.7	153.6	1.0	91.6	195.0	91.6	286.7	380.6	9139.9	4234.0	13373.9	17742.3	195.0	91.6	286.7	380.6	9140	4234	13374	17742	4	7.1	14	40.4%
3	11.6	50	50	12	916.3	44173	85.1	7.0		4	10	100	27.7	153.6	1.0	91.6	181.3	91.6	272.9	364.1	9321.1	4325.7	13646.8	18106.4	181.3	91.6	272.9	364.1	9321	4326	13647	18106	3	7.2	14	40.4%
2	21.0	50	50	12	916.3	45089	85.1	7.0		4	25	100	52.1	167.4	1.0	91.6	205.7	91.6	297.3	393.4	9526.8	4417.3	13944.1	18499.9	205.7	91.6	297.3	393.4	9527	4417	13944	18500	2	7.2	14	40.4%
1	30.0	50	50	12	916.3	46006	85.1	7.0		4	25	100	75.5	167.4	1.0	91.6	242.9	91.6	334.5	438.1	9769.7	4508.9	14278.6	18937.9	242.9	91.6	334.5	438.1	9770	4509	14279	18938	1	7.6	14	40.4%
Cellar (parki	16.2	50	50	12	916.3	46922	85.1			4	25	100	39.5	160.4	1.0	91.6	206.8	91.6	298.5	394.8	9976.6	4600.6	14577.1	19332.8	206.8	91.6	298.5	394.8	9977	4601	14577	19333	parking)	7.7	14	40.4%
																													9977	**4601**	**14577**	**19333**				
																													DL	**LL**	**SERV.L**	**FACT. L**				

* Sub-cellar floor slab is structural slab

*Load including lowest level slab

Column Axial Load

Project : 101 Murray Street

DATE: Jan 20, 2015

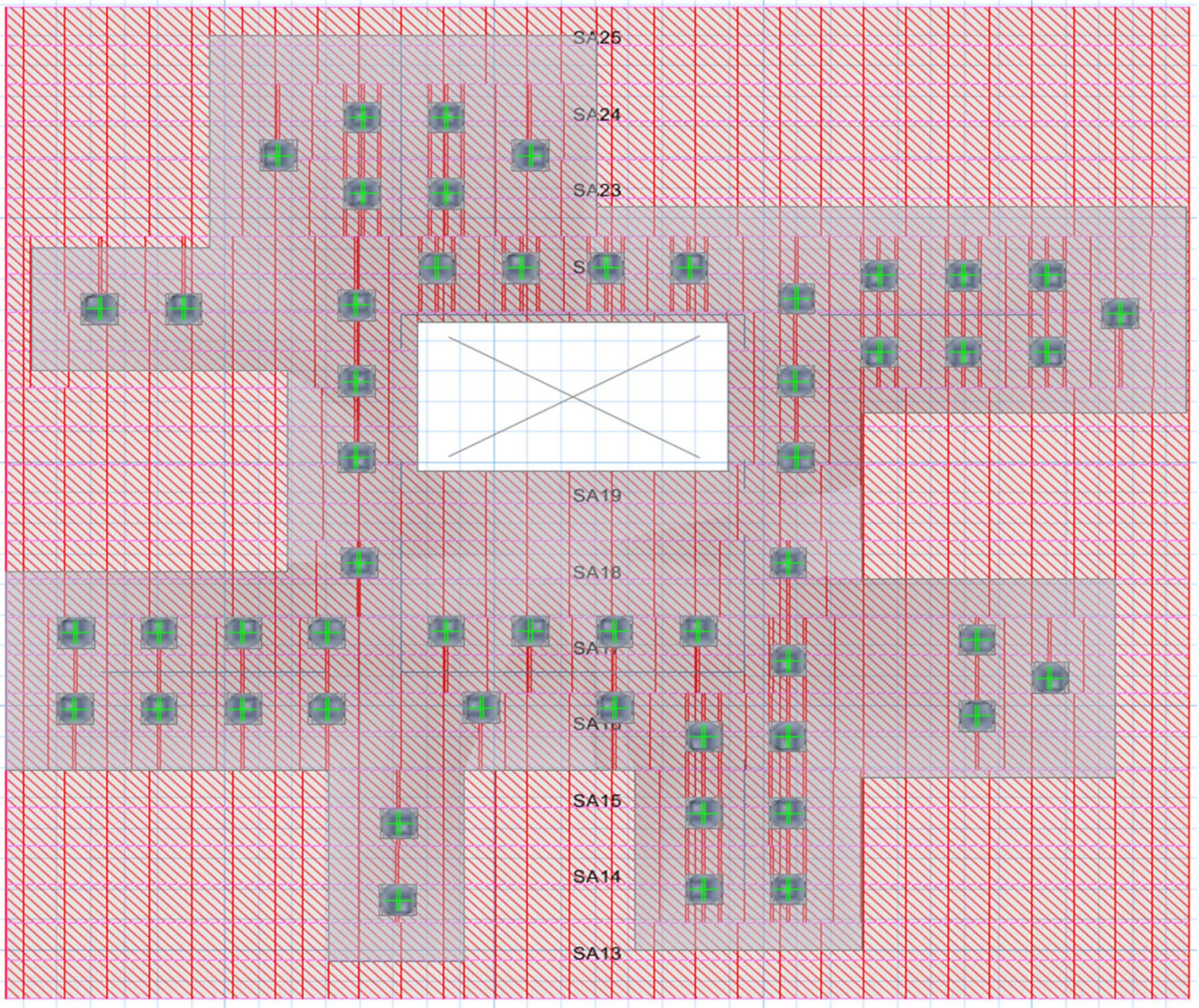
Column 8

FL.	STORY HEIGHT (ft)	EQUIV.SECT AREA (in2) (B)	(D)	SLAB THK. (in)	TRIBUTARY AREA Floor (ft2)	Accum (ft2)	Floor (m2)	ADD. Dead Load (kips)	ADD. Live Load (kips)	K Element Factor	DSTRB. LOAD SDL (lb/ft2)	LL (lb/ft2)	DEAD LOAD COLMN (kips)	SLAB (kips)	LIVE LOAD RED. RED. F.	RED L.L(kips)	WITHOUT LOAD REDUCTION FLOOR LOAD DL (kips)	LL (kips)	SERV.L (kips)	FACT. L (kips)	SUMMATION LOAD DL (kips)	LL (kips)	SERV.L (kips)	FACT. L (kips)	WITH LIVE LOAD REDUCTION FLOOR LOAD DL (kips)	LL (kips)	SERV.L (kips)	FACT. L (kips)	SUMMATION LOAD DL (kips)	LL (kips)	SERV.L (kips)	FACT. L (kips)	FL.	Stress (ksi)	Con. C (ksi)	Ratio
61		0	0	0	0	0	0.0			4	0	0	0.00	0.00	0.000	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	61			
60	14.0	0	0		424.5	424.5	39.4	0		4	25	100	0.00	10.61	1.000	42.45	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	60			
59	14.0	1	907.5	16	424.5	849	39.4	7.9		4	300	100	11.97	220.15	1.000	42.45	22.6	42.5	65.0	95.0	22.6	42.5	65.0	95.0	22.6	42.5	65.0	95.0	23	42	65	95	59	0.1	12	0.9%
58	16.3	1	907.5	16	424.5	1273.5	39.4	7.9		4	25	100	14.18	103.41	1.000	42.45	234.3	42.5	276.8	349.1	256.9	84.9	341.8	444.1	234.3	42.5	276.8	349.1	257	85	342	444	58	0.5	12	4.1%
57	14.0	1	907.5	16	424.5	1698	39.4	7.9		4	10	100	11.97	97.05	1.000	42.45	115.4	42.5	157.8	206.4	372.3	127.4	499.7	650.5	115.4	42.5	157.8	206.4	372	127	500	651	57	0.7	12	6.0%
56	14.0	1	907.5	16	424.5	2122.5	39.4	7.9		4	25	100	11.97	103.41	1.000	42.45	109.0	42.5	151.5	198.7	481.3	169.8	651.1	849.3	109.0	42.5	151.5	198.7	481	170	651	849	56	0.9	12	7.8%
55	14.0	1	907.5	16	424.5	2547	39.4	7.9		4	25	100	11.97	103.41	1.000	42.45	115.4	42.5	157.8	206.4	596.7	212.3	809.0	1055.6	115.4	42.5	157.8	206.4	597	212	809	1056	55	1.2	12	9.7%
54	12.8	1	907.5	16	424.5	2971.5	39.4	7.9		4	25	100	10.83	103.41	1.000	42.45	114.2	42.5	156.7	205.0	710.9	254.7	965.6	1260.7	114.2	42.5	156.7	205.0	711	255	966	1261	54	1.4	12	11.6%
53	11.8	1	907.5	16	424.5	3396	39.4	7.9		4	25	100	9.89	103.41	1.000	42.45	113.3	42.5	155.7	203.9	824.2	297.2	1121.4	1464.5	113.3	42.5	155.7	203.9	824	297	1121	1465	53	1.6	12	13.4%
52	11.8	1	907.5	16	424.5	3820.5	39.4	7.9		4	25	100	9.89	103.41	1.000	42.45	113.3	42.5	155.7	203.9	937.5	339.6	1277.1	1668.4	113.3	42.5	155.7	203.9	938	340	1277	1668	52	1.8	12	15.3%
51	11.8	28	40	16	420.8	4241.3	39.1	7.7		4	25	100	12.20	102.38	1.000	42.08	115.6	42.5	158.1	206.7	1053.2	382.1	1435.2	1875.1	115.6	42.5	158.1	206.7	1053	382	1435	1875	51	1.7	12	14.0%
50	12.6	28	40	16	420.8	4662.1	39.1	7.7		4	25	100	13.17	102.38	1.000	42.08	115.6	42.1	157.6	206.0	1168.7	424.1	1592.8	2081.1	115.6	42.1	157.6	206.0	1169	424	1593	2081	50	1.9	12	15.5%
49	13.6	28	40	12	420.8	5082.9	39.1	7.7		4	25	100	14.73	81.34	1.000	42.08	117.1	42.1	159.2	207.9	1285.8	466.2	1752.0	2288.9	117.1	42.1	159.2	207.9	1286	466	1752	2289	49	2.0	12	17.0%
48	11.6	28	40	12	420.8	5503.7	39.1	7.7		4	25	100	12.40	81.34	1.000	42.08	93.7	42.1	135.8	179.8	1379.6	508.3	1887.8	2468.7	93.7	42.1	135.8	179.8	1380	508	1888	2469	48	2.2	12	18.4%
47	11.6	28	40	12	420.8	5924.5	39.1	7.7		4	25	100	12.40	81.34	1.000	42.08	93.7	42.1	135.8	179.8	1473.3	550.4	2023.7	2648.5	93.7	42.1	135.8	179.8	1473	550	2024	2649	47	2.4	12	19.7%
46	11.6	28	40	12	420.8	6345.3	39.1	7.7		4	25	100	12.40	81.34	1.000	42.08	93.7	42.1	135.8	179.8	1567.0	592.5	2159.5	2828.4	93.7	42.1	135.8	179.8	1567	592	2159	2828	46	2.5	12	21.0%
45	11.6	28	40	12	420.8	6766.1	39.1	7.7		4	25	100	12.40	81.34	1.000	42.08	93.7	42.1	135.8	179.8	1660.8	634.5	2295.3	3008.2	93.7	42.1	135.8	179.8	1661	635	2295	3008	45	2.7	12	22.4%
44	11.6	28	40	12	420.8	7186.9	39.1	7.7		4	25	100	12.40	81.34	1.000	42.08	93.7	42.1	135.8	179.8	1754.5	676.6	2431.1	3188.0	93.7	42.1	135.8	179.8	1755	677	2431	3188	44	2.8	12	23.7%
43	11.6	28	40	12	420.8	7607.7	39.1	7.7		4	25	100	12.40	81.34	1.000	42.08	93.7	42.1	135.8	179.8	1848.2	718.7	2566.9	3367.8	93.7	42.1	135.8	179.8	1848	719	2567	3368	43	3.0	12	25.1%
42	11.6	28	40	12	420.8	8028.5	39.1	7.7		4	25	100	12.40	81.34	1.000	42.08	93.7	42.1	135.8	179.8	1942.0	760.8	2702.7	3547.6	93.7	42.1	135.8	179.8	1942	761	2703	3548	42	3.2	12	26.4%
41	11.6	28	40	12	420.8	8449.3	39.1	7.7		4	25	100	12.40	81.34	1.000	42.08	93.7	42.1	135.8	179.8	2035.7	802.9	2838.6	3727.4	93.7	42.1	135.8	179.8	2036	803	2839	3727	41	3.3	12	27.7%
40	11.6	28	40	12	420.8	8870.1	39.1	7.7		4	10	100	12.40	75.03	1.000	42.08	93.7	42.1	135.8	179.8	2129.4	844.9	2974.4	3907.2	93.7	42.1	135.8	179.8	2129	845	2974	3907	40	3.5	12	29.1%
39	11.6	28	40	12	420.8	9290.9	39.1	7.7		4	25	100	12.40	81.34	1.000	42.08	87.4	42.1	129.5	172.2	2216.9	887.0	3103.9	4079.5	87.4	42.1	129.5	172.2	2217	887	3104	4079	39	3.6	12	30.4%
38										4	25	100	0.00	0.00	0.000	0.00	81.3	42.1	123.4	164.9	2298.2	929.1	3227.3	4244.4	81.3	42.1	123.4	164.9	2298	929	3227	4244	38		12	
37										4	25	100	0.00	0.00	0.000	0.00	0.0	0.0	0.0	0.0	2298.2	929.1	3227.3	4244.4	0.0	0.0	0.0	0.0	2298	929	3227	4244	37		14	
36										4	25	100	0.00	0.00	0.000	0.00	0.0	0.0	0.0	0.0	2298.2	929.1	3227.3	4244.4	0.0	0.0	0.0	0.0	2298	929	3227	4244	36		14	
35										4	25	100	0.00	0.00	0.000	0.00	0.0	0.0	0.0	0.0	2298.2	929.1	3227.3	4244.4	0.0	0.0	0.0	0.0	2298	929	3227	4244	35		14	
34										4	25	100	0.00	0.00	0.000	0.00	0.0	0.0	0.0	0.0	2298.2	929.1	3227.3	4244.4	0.0	0.0	0.0	0.0	2298	929	3227	4244	34		14	
33										4	25	100	0.00	0.00	0.000	0.00	0.0	0.0	0.0	0.0	2298.2	929.1	3227.3	4244.4	0.0	0.0	0.0	0.0	2298	929	3227	4244	33		14	
32										4	25	100	0.00	0.00	0.000	0.00	0.0	0.0	0.0	0.0	2298.2	929.1	3227.3	4244.4	0.0	0.0	0.0	0.0	2298	929	3227	4244	32		14	
31										4	25	100	0.00	0.00	0.000	0.00	0.0	0.0	0.0	0.0	2298.2	929.1	3227.3	4244.4	0.0	0.0	0.0	0.0	2298	929	3227	4244	31		14	
30										4	25	100	0.00	0.00	0.000	0.00	0.0	0.0	0.0	0.0	2298.2	929.1	3227.3	4244.4	0.0	0.0	0.0	0.0	2298	929	3227	4244	30		14	
29										4	25	100	0.00	0.00	0.000	0.00	0.0	0.0	0.0	0.0	2298.2	929.1	3227.3	4244.4	0.0	0.0	0.0	0.0	2298	929	3227	4244	29		14	
28										4	25	100	0.00	0.00	0.000	0.00	0.0	0.0	0.0	0.0	2298.2	929.1	3227.3	4244.4	0.0	0.0	0.0	0.0	2298	929	3227	4244	28		14	
27										4	25	100	0.00	0.00	0.000	0.00	0.0	0.0	0.0	0.0	2298.2	929.1	3227.3	4244.4	0.0	0.0	0.0	0.0	2298	929	3227	4244	27		14	
26										4	25	100	0.00	0.00	0.000	0.00	0.0	0.0	0.0	0.0	2298.2	929.1	3227.3	4244.4	0.0	0.0	0.0	0.0	2298	929	3227	4244	26		14	
25										4	25	100	0.00	0	0.000	0.00	0.0	0.0	0.0	0.0	2298.2	929.1	3227.3	4244.4	0.0	0.0	0.0	0.0	2298	929	3227	4244	25		14	
24										4	25	100	0.00	0.00	0.000	0.00	0.0	0.0	0.0	0.0	2298.2	929.1	3227.3	4244.4	0.0	0.0	0.0	0.0	2298	929	3227	4244	24		14	
23										4	25	100	0.00	0.00	0.000	0.00	0.0	0.0	0.0	0.0	2298.2	929.1	3227.3	4244.4	0.0	0.0	0.0	0.0	2298	929	3227	4244	23		14	
22										4	10	100	0.00	0.00	0.000	0.00	0.0	0.0	0.0	0.0	2298.2	929.1	3227.3	4244.4	0.0	0.0	0.0	0.0	2298	929	3227	4244	22		14	
21										4	25	100	0.00	0.00	0.000	0.00	0.0	0.0	0.0	0.0	2298.2	929.1	3227.3	4244.4	0.0	0.0	0.0	0.0	2298	929	3227	4244	21		14	
20										4	25	100	0.00	0.00	0.000	0.00	0.0	0.0	0.0	0.0	2298.2	929.1	3227.3	4244.4	0.0	0.0	0.0	0.0	2298	929	3227	4244	20		14	
19										4	25	100	0.00	0.00	0.000	0.00	0.0	0.0	0.0	0.0	2298.2	929.1	3227.3	4244.4	0.0	0.0	0.0	0.0	2298	929	3227	4244	19		14	
18										4	25	100	0.00	0.00	0.000	0.00	0.0	0.0	0.0	0.0	2298.2	929.1	3227.3	4244.4	0.0	0.0	0.0	0.0	2298	929	3227	4244	18		14	
17										4	25	100	0.00	0.00	0.000	0.00	0.0	0.0	0.0	0.0	2298.2	929.1	3227.3	4244.4	0.0	0.0	0.0	0.0	2298	929	3227	4244	17		14	
16										4	25	100	0.00	0.00	0.000	0.00	0.0	0.0	0.0	0.0	2298.2	929.1	3227.3	4244.4	0.0	0.0	0.0	0.0	2298	929	3227	4244	16		14	
15										4	25	100	0.00	0.00	0.000	0.00	0.0	0.0	0.0	0.0	2298.2	929.1	3227.3	4244.4	0.0	0.0	0.0	0.0	2298	929	3227	4244	15		14	
14										4	25	100	0.00	0.00	0.000	0.00	0.0	0.0	0.0	0.0	2298.2	929.1	3227.3	4244.4	0.0	0.0	0.0	0.0	2298	929	3227	4244	14		14	
13										4	25	100	0.00	0.00	0.000	0.00	0.0	0.0	0.0	0.0	2298.2	929.1	3227.3	4244.4	0.0	0.0	0.0	0.0	2298	929	3227	4244	13		14	
12										4	25	100	0.00	0.00	0.000	0.00	0.0	0.0	0.0	0.0	2298.2	929.1	3227.3	4244.4	0.0	0.0	0.0	0.0	2298	929	3227	4244	12		14	
11										4	25	100	0.00	0.00	0.000	0.00	0.0	0.0	0.0	0.0	2298.2	929.1	3227.3	4244.4	0.0	0.0	0.0	0.0	2298	929	3227	4244	11		14	
10										4	25	100	0.00	0.00	0.000	0.00	0.0	0.0	0.0	0.0	2298.2	929.1	3227.3	4244.4	0.0	0.0	0.0	0.0	2298	929	3227	4244	10		14	
9										4	25	100	0.00	0.00	0.000	0.00	0.0	0.0	0.0	0.0	2298.2	929.1	3227.3	4244.4	0.0	0.0	0.0	0.0	2298	929	3227	4244	9		14	
8										4	25	100	0.00	0.00	0.000	0.00	0.0	0.0	0.0	0.0	2298.2	929.1	3227.3	4244.4	0.0	0.0	0.0	0.0	2298	929	3227	4244	8		14	
7										4	25	100	0.00	0.00	0.000	0.00	0.0	0.0	0.0	0.0	2298.2	929.1	3227.3	4244.4	0.0	0.0	0.0	0.0	2298	929	3227	4244	7		14	
6										4	25	100	0.00	0.00	0.000	0.00	0.0	0.0	0.0	0.0	2298.2	929.1	3227.3	4244.4	0.0	0.0	0.0	0.0	2298	929	3227	4244	6		14	
5										4	25	100	0.00	0.00	0.000	0.00	0.0	0.0	0.0	0.0	2298.2	929.1	3227.3	4244.4	0.0	0.0	0.0	0.0	2298	929	3227	4244	5		14	
4										4	10	100	0.00	0.00	0.000	0.00	0.0	0.0	0.0	0.0	2298.2	929.1	3227.3	4244.4	0.0	0.0	0.0	0.0	2298	929	3227	4244	4		14	
3										4	10	100	0.00	0.00	0.000	0.00	0.0	0.0	0.0	0.0	2298.2	929.1	3227.3	4244.4	0.0	0.0	0.0	0.0	2298	929	3227	4244	3		14	
2										4	25	100	0.00	0.00	0.000	0.00	0.0	0.0	0.0	0.0	2298.2	929.1	3227.3	4244.4	0.0	0.0	0.0	0.0	2298	929	3227	4244	2		14	
1										4	25	100	0.00	0.00	0.000	0.00	0.0	0.0	0.0	0.0	2298.2	929.1	3227.3	4244.4	0.0	0.0	0.0	0.0	2298	929	3227	4244	1		14	
Cellar (parki	16.2	1	2704	12	916.3	916.3	85.1			4	25	100	42.72	160.35	1.000	91.63	42.7	0.0	42.7	51.3	2340.9	929.1	3270.0	4295.7	42.7	0.0	42.7	51.3	2341	929	3270	4296	parking)	1.6	14	
																													2341	**929**	**3270**	**4296**				
																													DL	**LL**	**SERV.L**	**FACT. L**				

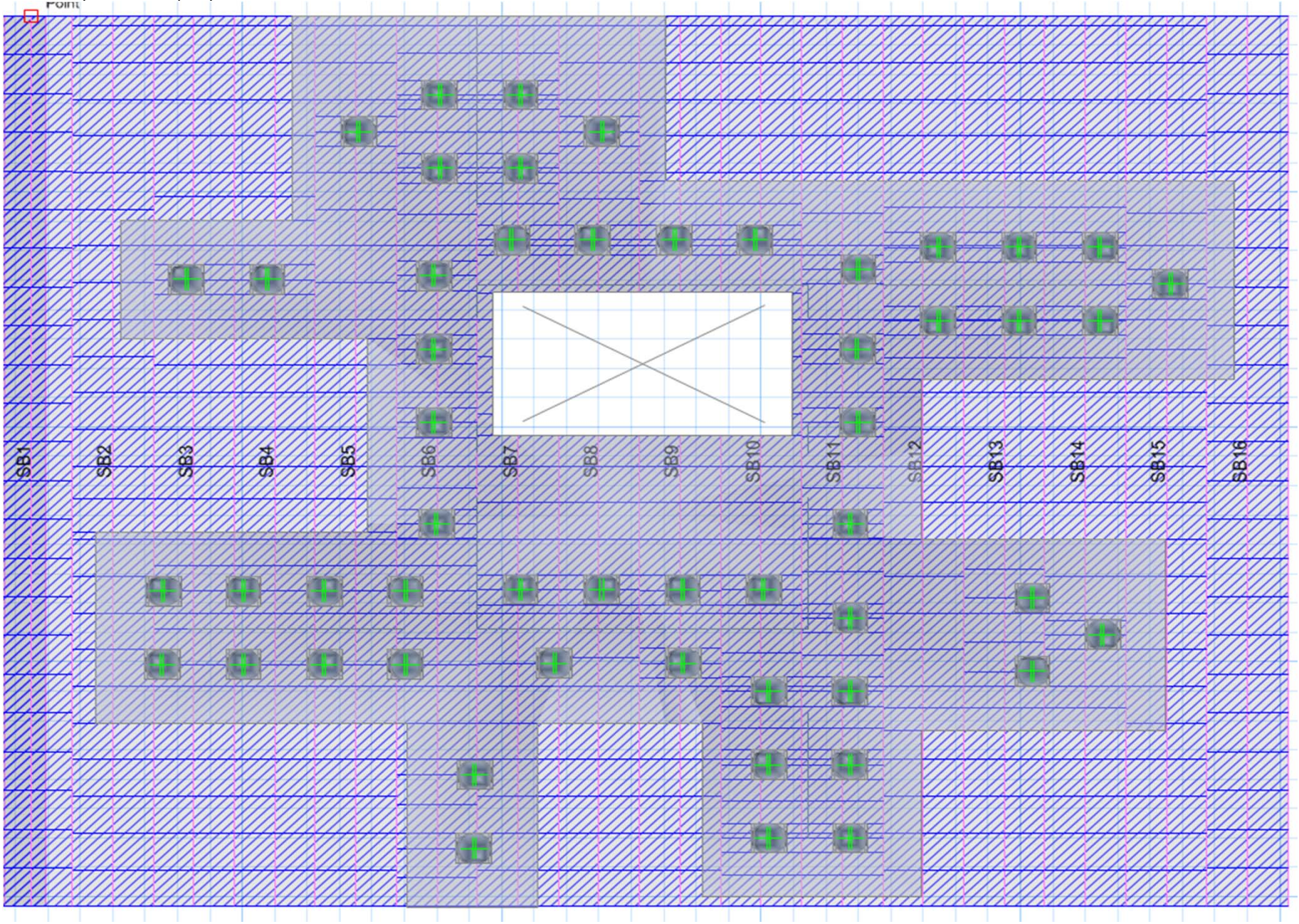
* Sub-cellar floor slab is structural slab

*Load including lowest level slab

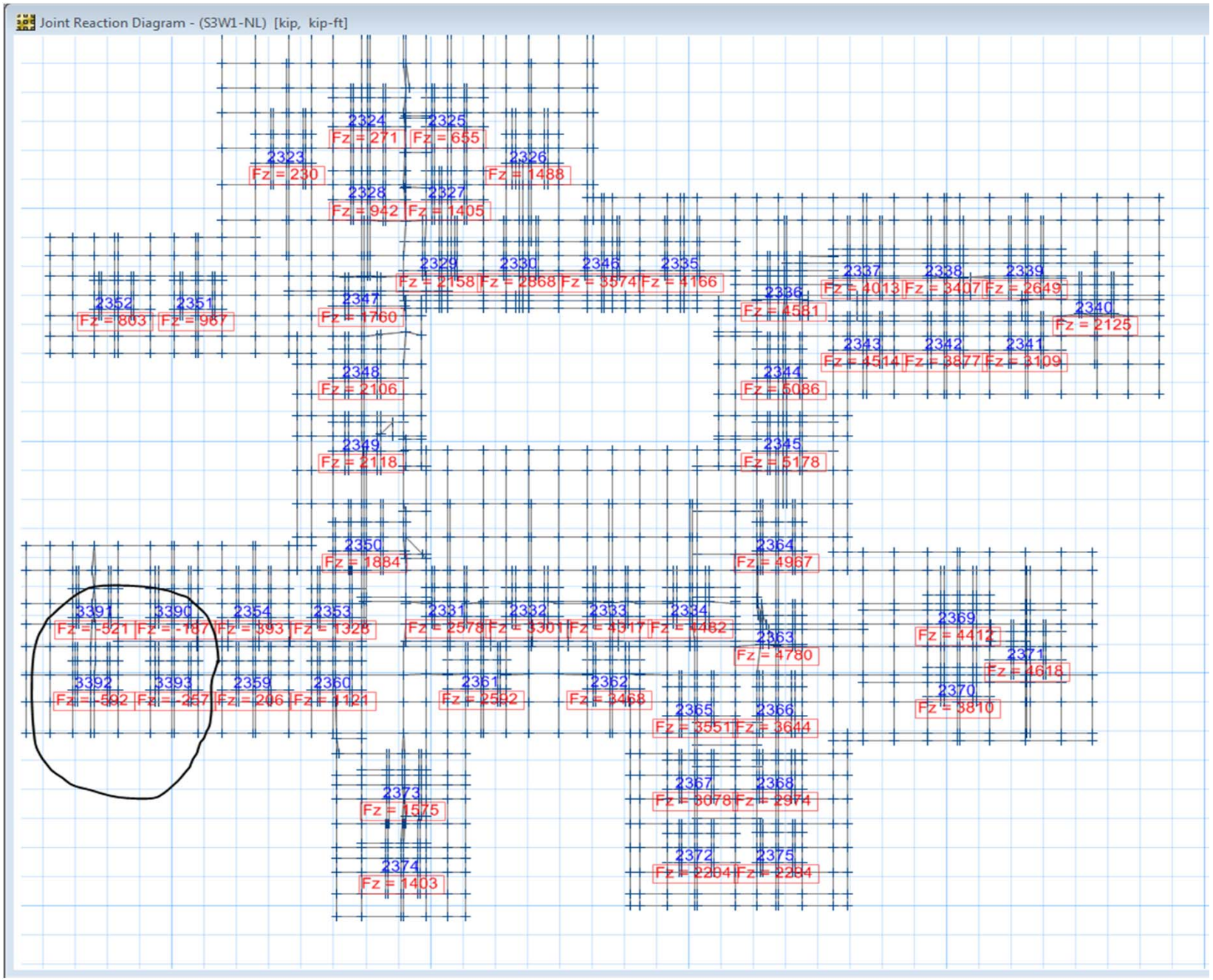
101 Murray Street - Strip Layout



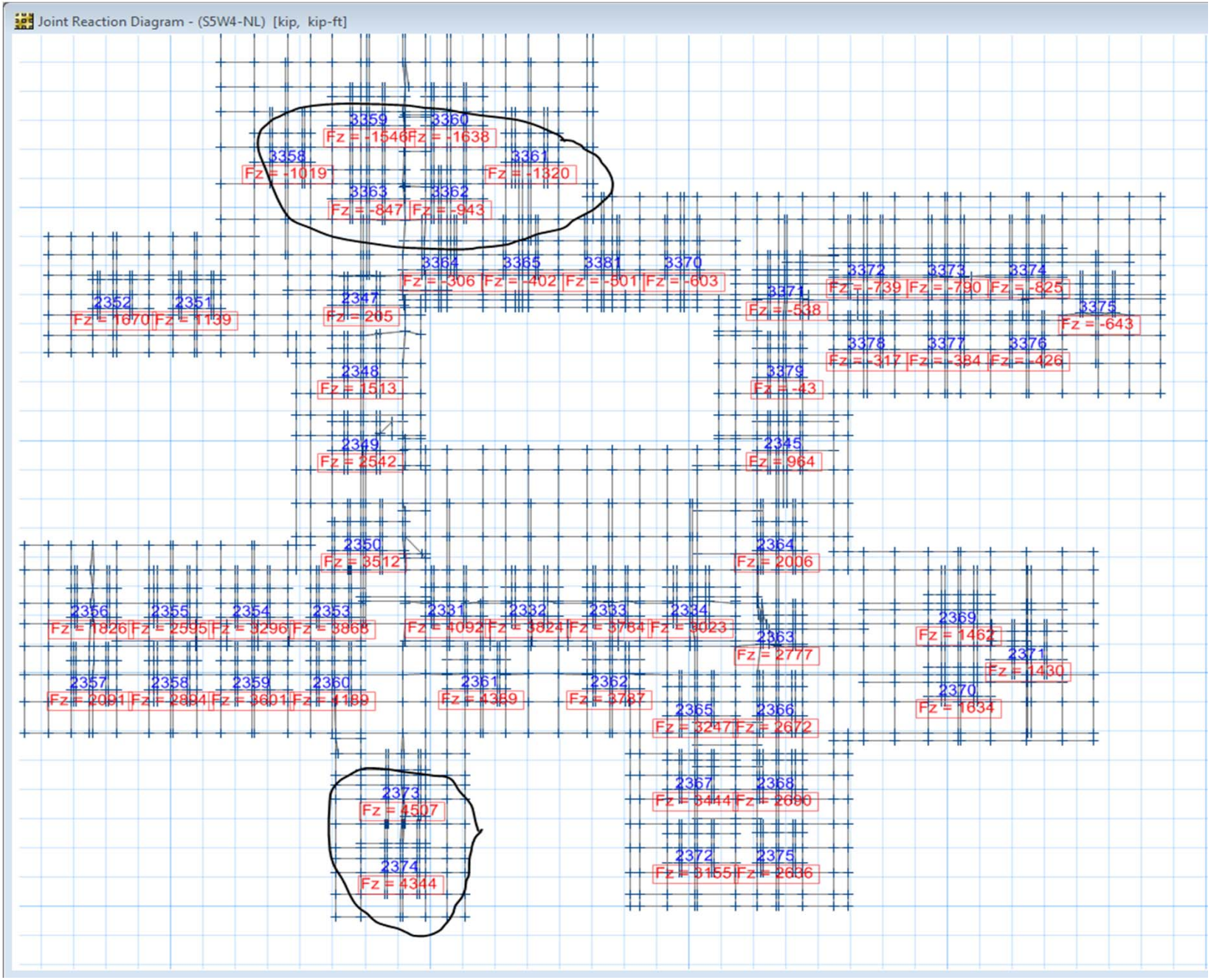
101 Murray Street - Strip Layout



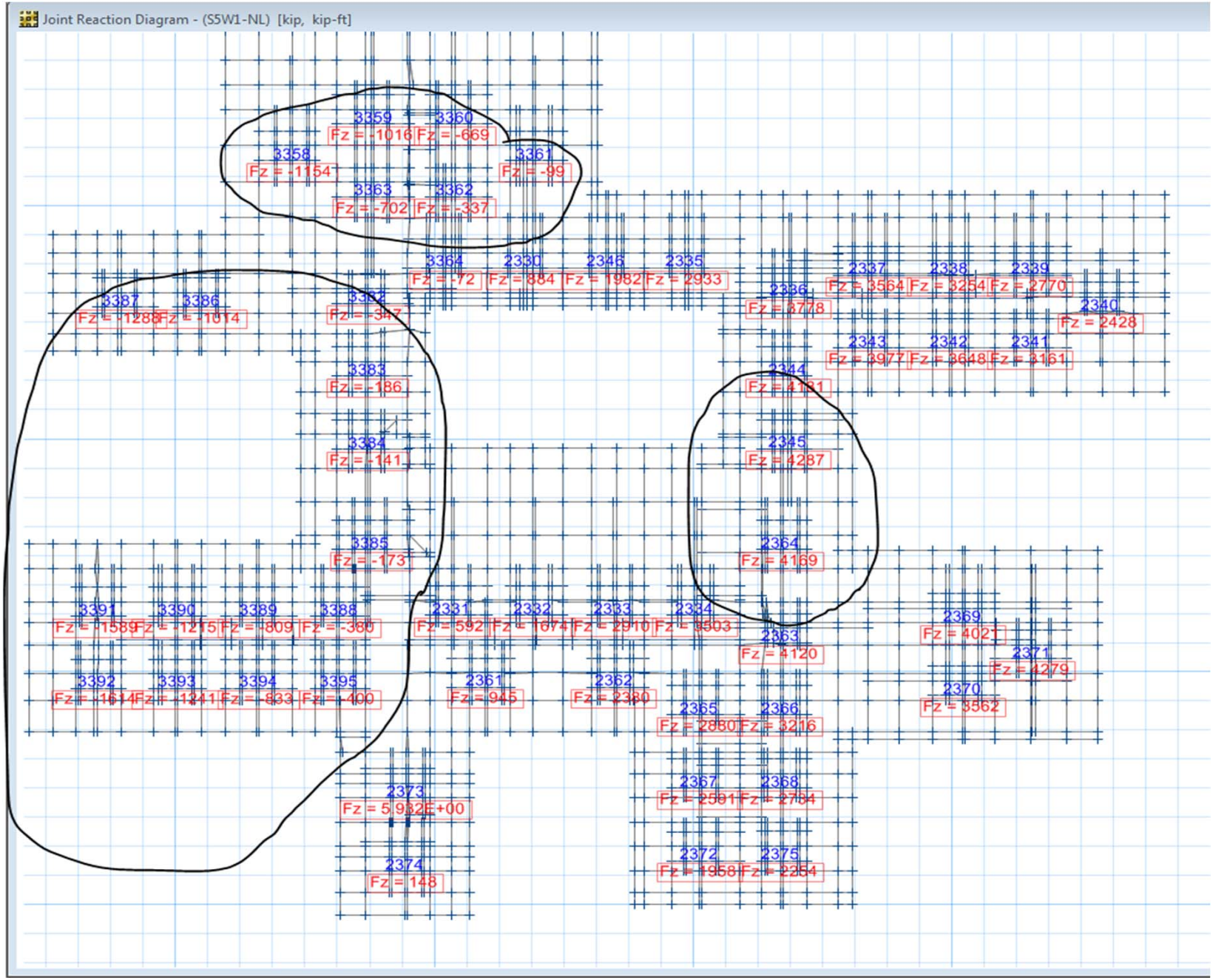
Reaction at Caissons due to S3W1 (D+0.75L+0.75Wind Case1)



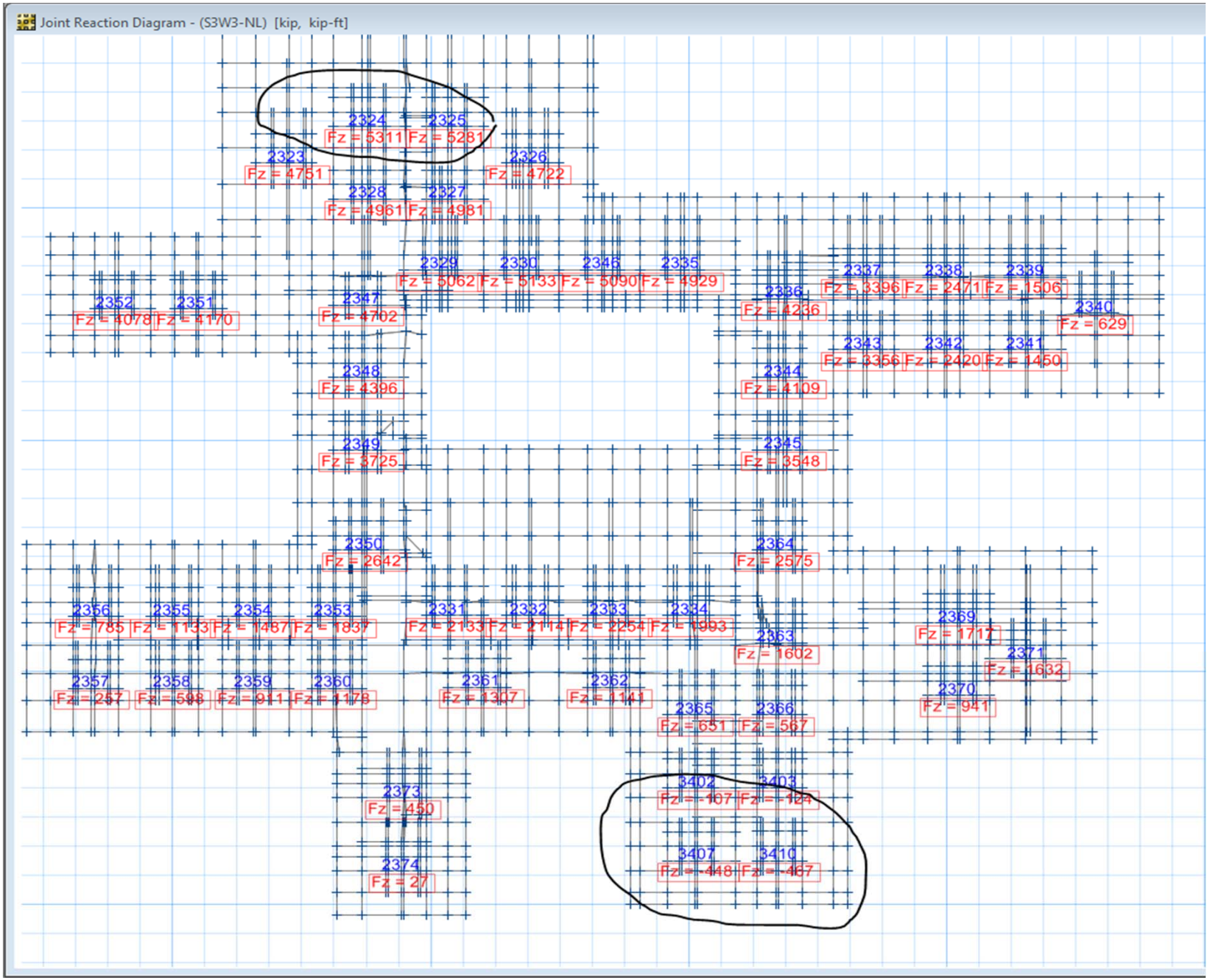
Reaction at Caissons due to S5W4 (0.6D+Wind Case4)



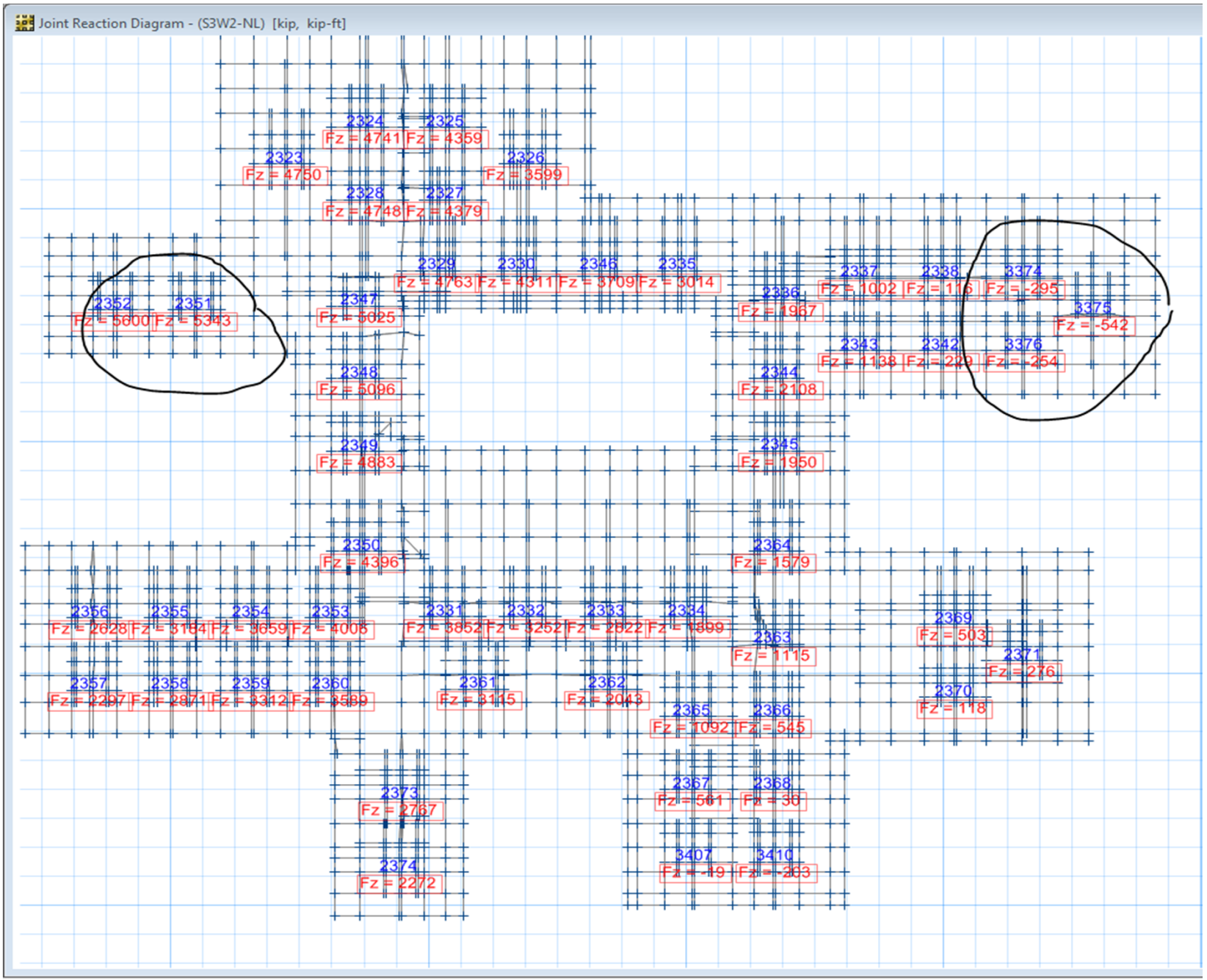
Reaction at Caissons due to S5W1 (0.6D+Wind Case1)



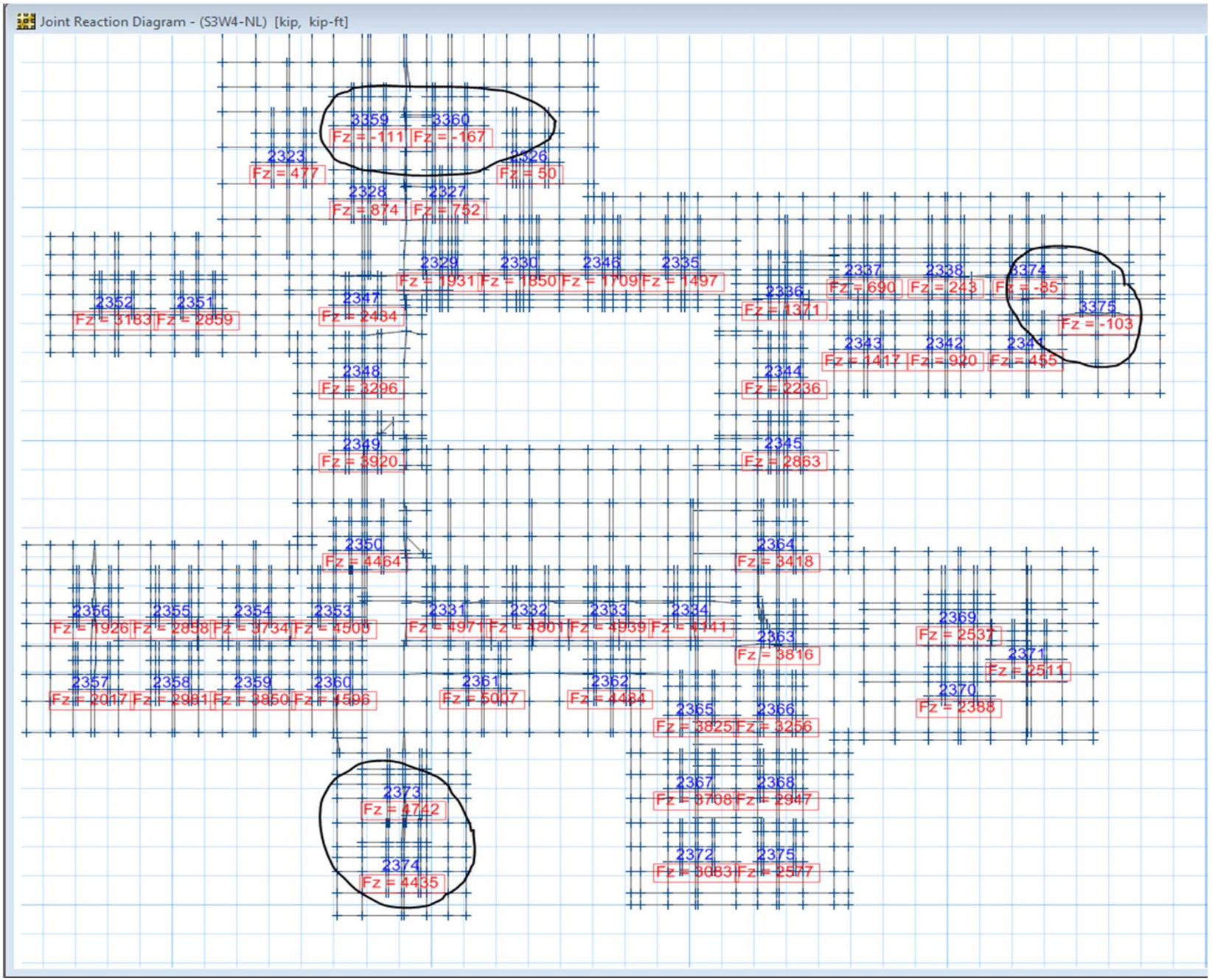
Reaction at Caissons due to S3W3 (D+0.75L+0.75Wind Case3)



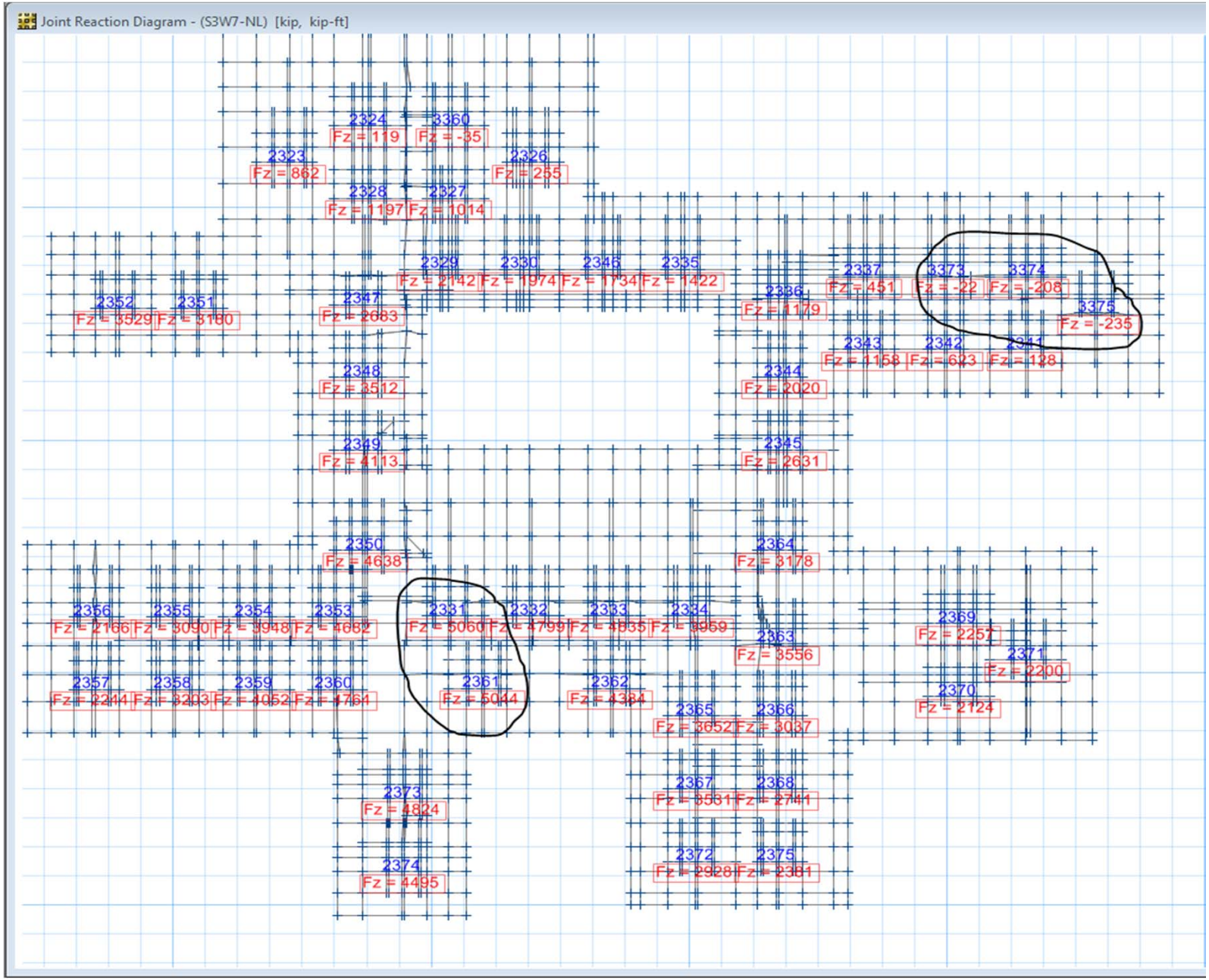
Reaction at Caissons due to S3W2 (D+0.75L+0.75Wind Case2)



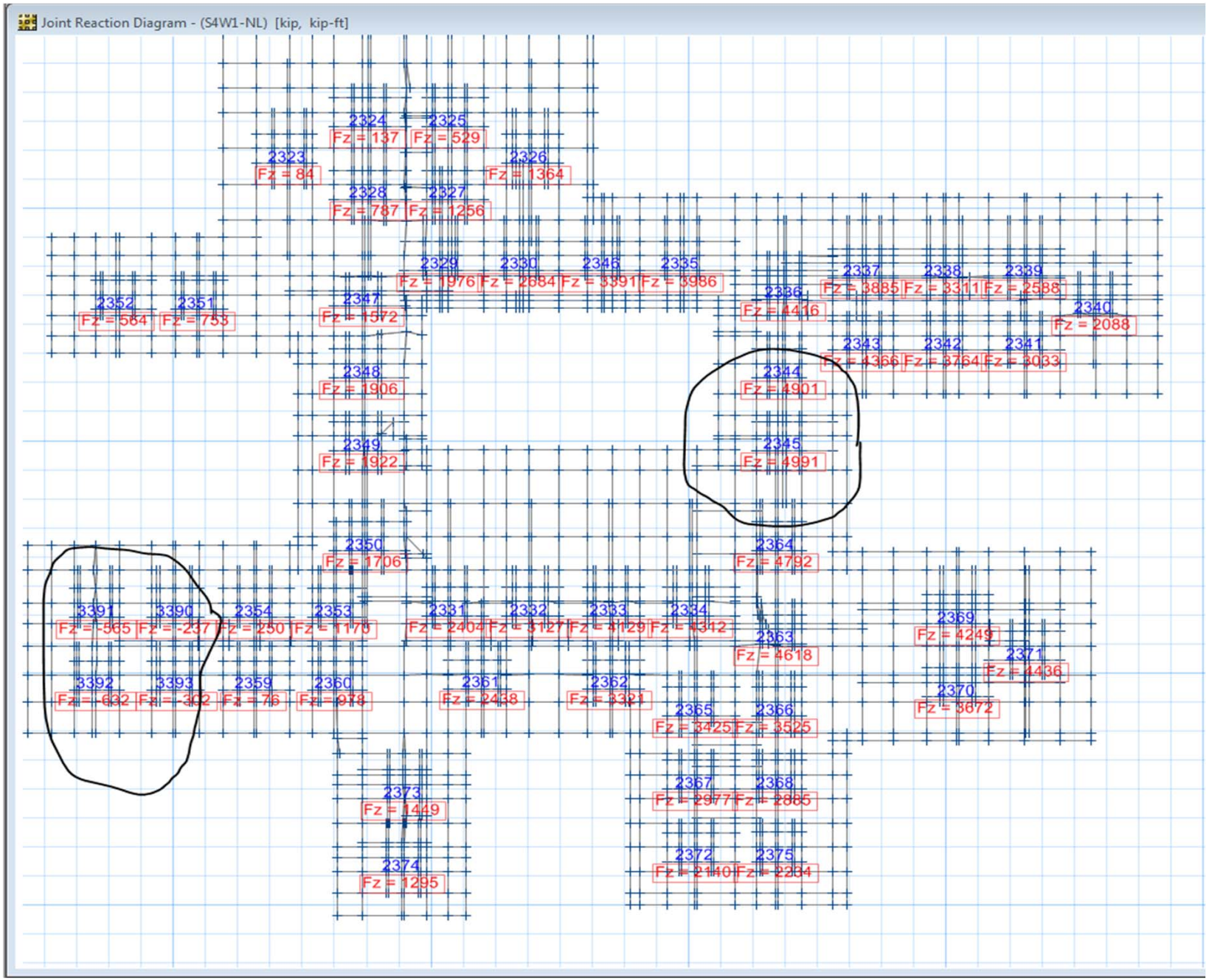
Reaction at Caissons due to S3W4 (D+0.75L+0.75Wind Case4)



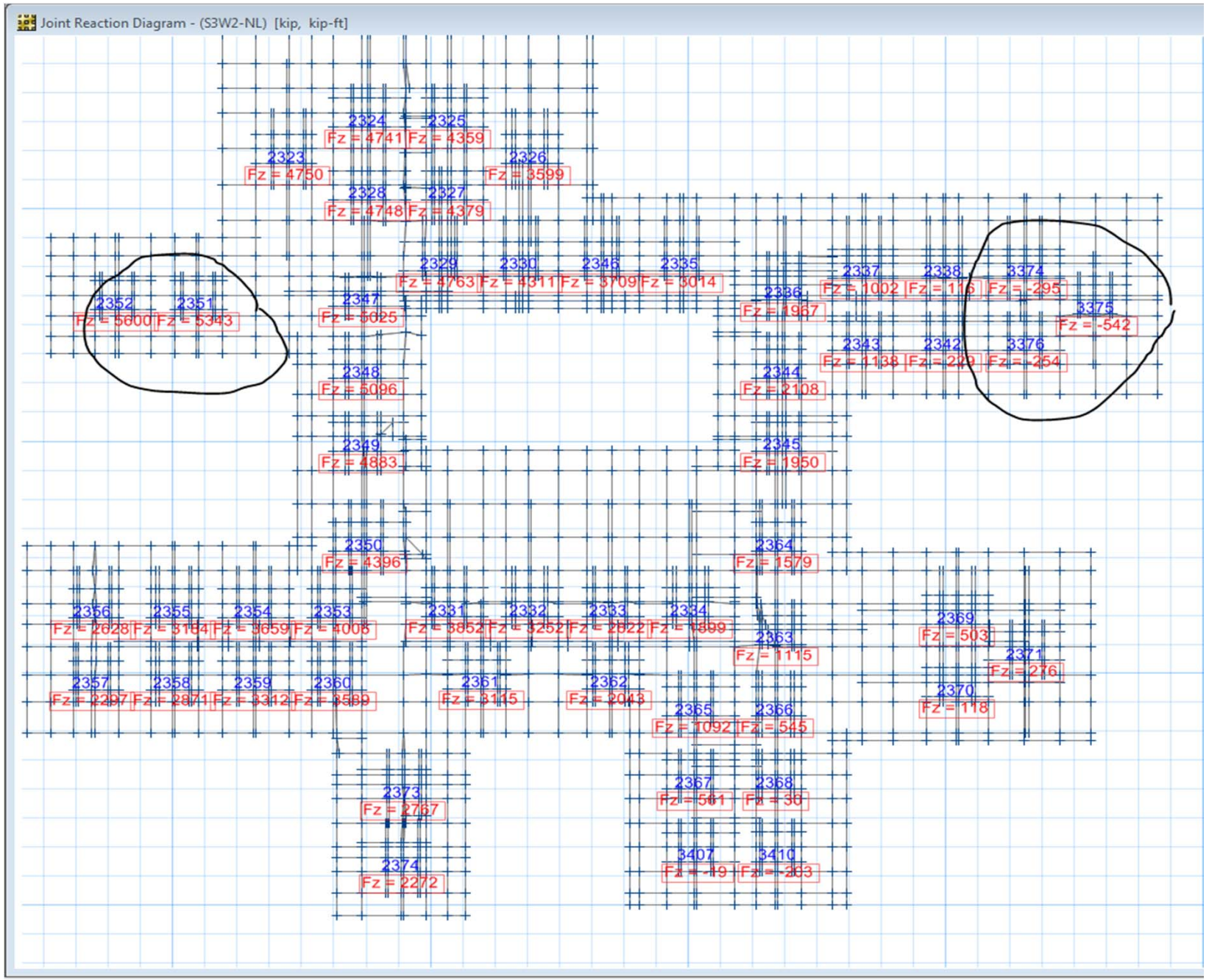
Reaction at Caissons due to S3W7 (D+0.75L+0.75Wind Case7)



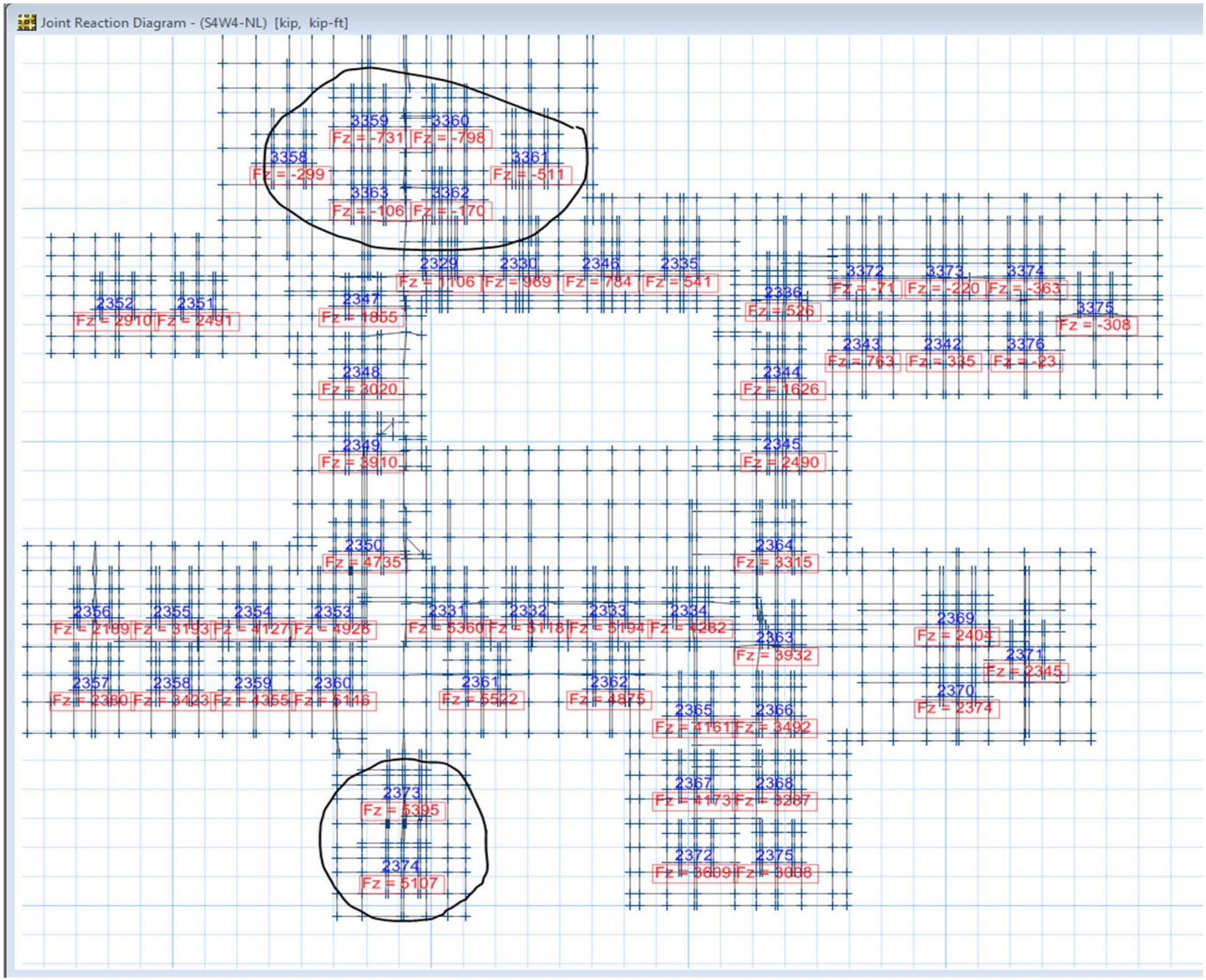
Reaction at Caissons due to S4W1 (D+Wind Case1)



Reaction at Caissons due to S3W2 (D+0.75L+0.75Wind Case2)



Reaction at Caissons due to S4W4 (D+Wind Case4)



Reaction at Caissons due to S3W6 (D+0.75L+0.75Wind Case6)

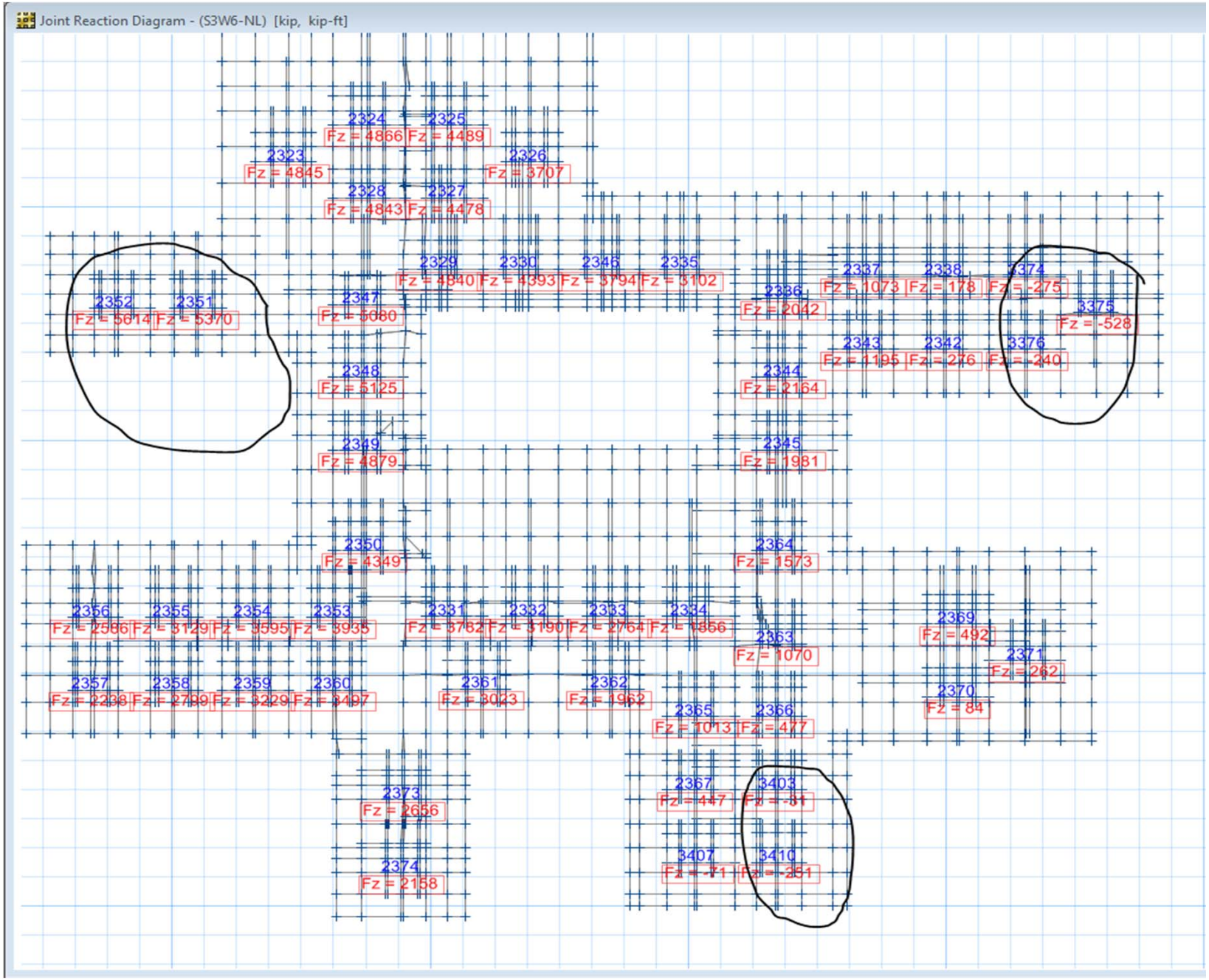


TABLE: Concrete Slab Design 01 - Flexural And Shear Data

Strip	Station	ConcWidth	FTopCombo	TopMomer	FTopArea	FTopAMin	FBotCombo	BotMomer	FBotArea	FBotAMin	VCombo	VForce	VArea	GlobalX	GlobalY	Layer
Text	ft	ft	Text	kip-ft	in2	in2	Text	kip-ft	in2	in2	Text	kip	in2/ft	ft	ft	Text
SA13	0	0		0	0	0		0	0	0		0	0	64.5	-49	A
SA13	1.5	0		0	0	0		0	0	0		0	0	66	-49	A
SA13	5.25	0		0	0	0		0	0	0		0	0	69.75	-49	A
SA13	9	0		0	0	0		0	0	0		0	0	73.5	-49	A
SA13	12.75	0		0	0	0		0	0	0		0	0	77.25	-49	A
SA13	16.5	0		0	0	0		0	0	0		0	0	81	-49	A
SA13	20.25	0		0	0	0		0	0	0		0	0	84.75	-49	A
SA13	24	0		0	0	0		0	0	0		0	0	88.5	-49	A
SA13	26.3951	0		0	0	0		0	0	0		0	0	90.8951	-49	A
SA13	28.7901	0	F5W4	-125	0.3108	0	F3W3	206	0.5431	7.8995	F3W7	118	0	93.2901	-49	A
SA13	31.5	3.8096	F3W7	-735	1.7872	7.8995	F5W3	529	1.4073	0	F3W7	211	0	96	-49	A
SA13	35.25	3.8096	F3W7	-1512	3.6835	7.8995	F5W3	812	2.1537	0	F3W7	447	0	99.75	-49	A
SA13	39	3.8096	F3W7	-74	0	0	F3W7	525	1.3862	7.8995	F3W7	622	0.6857	103.5	-49	A
SA13	40.7901	0	F3W3	-47	0	0	F3W7	290	0.7613	7.8995	F3W7	189	0	105.2901	-49	A
SA13	43.6451	0		0	0	0		0	0	0		0	0	108.1451	-49	A
SA13	46.5	0		0	0	0		0	0	0		0	0	111	-49	A
SA13	50.25	0		0	0	0		0	0	0		0	0	114.75	-49	A
SA13	54	0		0	0	0		0	0	0		0	0	118.5	-49	A
SA13	57.75	2.7674	F3W2	-681	1.6586	5.7386	F5W1	557	1.4608	0	F3W6	8.722	0	122.25	-49	A
SA13	61.5	2.7674	F3W6	-1237	3.0184	0	F5W8	1153	3.0278	5.7386	F3W4	62	0	126	-49	A
SA13	65.25	2.7674	F5W6	-1571	3.8449	0	F3W8	1765	4.6461	5.7386	F3W5	36	0	129.75	-49	A
SA13	69	2.7674	F5W6	-1197	2.9244	0	F3W8	1416	3.7222	5.7386	F3W8	258	0	133.5	-49	A
SA13	72.75	2.7674	F3W2	-353	0.8587	0	F5W8	373	0.9775	5.7386	F5W6	23	0	137.25	-49	A
SA13	76.5	0		0	0	0		0	0	0		0	0	141	-49	A
SA13	80.25	0		0	0	0		0	0	0		0	0	144.75	-49	A
SA13	84	0		0	0	0		0	0	0		0	0	148.5	-49	A
SA13	87.75	0		0	0	0		0	0	0		0	0	152.25	-49	A
SA13	91.5	0		0	0	0		0	0	0		0	0	156	-49	A
SA13	95.25	0		0	0	0		0	0	0		0	0	159.75	-49	A
SA13	99	0		0	0	0		0	0	0		0	0	163.5	-49	A
SA13	102.25	0		0	0	0		0	0	0		0	0	166.75	-49	A
SA13	105.5	0		0	0	0		0	0	0		0	0	170	-49	A
SA14	0	0		0	0	0		0	0	0		0	0	64.5	-41.5	A
SA14	1.5	0		0	0	0		0	0	0		0	0	66	-41.5	A
SA14	5.25	0		0	0	0		0	0	0		0	0	69.75	-41.5	A
SA14	9	0		0	0	0		0	0	0		0	0	73.5	-41.5	A
SA14	12.75	0		0	0	0		0	0	0		0	0	77.25	-41.5	A
SA14	16.5	0		0	0	0		0	0	0		0	0	81	-41.5	A
SA14	20.25	0		0	0	0		0	0	0		0	0	84.75	-41.5	A
SA14	24	0		0	0	0		0	0	0		0	0	88.5	-41.5	A
SA14	26.3951	0		0	0	0		0	0	0		0	0	90.8951	-41.5	A
SA14	28.7901	0	F3W3	-438	1.0661	0	F3W6	1310	3.4488	15.552	F3W7	143	0	93.2901	-41.5	A
SA14	31.5	7.5	F3W4	-1059	2.6369	0	F3W7	3265	8.6462	15.552	F3W7	420	0	96	-41.5	A
SA14	34.7901	4.5	F3W7	-1216	3.1183	0	F3W7	5921	15.8714	9.3312	F3W7	1347	2.0686	99.2901	-41.5	A
SA14	35.0401	2.8133	F3W7	-2365	5.9121	0	F3W7	11326	30.8805	5.8337	F3W7	6004	0	99.5401	-41.5	A
SA14	39	7.5	F3W7	-633	1.6321	0	F3W7	3972	10.5456	15.552	F3W7	1150	1.35	103.5	-41.5	A
SA14	40.7901	0	F3W6	-629	1.5381	0	F3W7	2418	6.3717	15.552	F3W7	297	0	105.2901	-41.5	A
SA14	43.6451	0		0	0	0		0	0	0		0	0	108.1451	-41.5	A
SA14	46.5	0		0	0	0		0	0	0		0	0	111	-41.5	A
SA14	50.25	0		0	0	0		0	0	0		0	0	114.75	-41.5	A
SA14	54	0		0	0	0		0	0	0		0	0	118.5	-41.5	A
SA14	56.0927	0	F3W2	-2058	5.0166	15.552	F5W1	1485	3.8974	0	F3W7	19	0	120.5927	-41.5	A
SA14	58.3427	7.5	F3W2	-2966	7.2312	15.552	F5W1	2069	5.4792	0	F3W7	107	0	122.8427	-41.5	A
SA14	60.5927	4.5	F3W7	-4946	12.1792	15.552	F5W5	2134	5.6742	0	F3W4	1188	1.35	125.0927	-41.5	A
SA14	60.8427	4.5	F3W2	-2734	6.7074	9.3312	F5W1	1958	5.218	0	F3W4	455	0	125.3427	-41.5	A
SA14	61.5	4.5	F3W2	-2781	6.8215	9.3312	F5W1	2052	5.4624	0	F3W4	118	0	126	-41.5	A
SA14	62.0927	4.5	F3W2	-3300	8.114	9.3312	F5W8	2899	7.6619	0	F3W4	1893	3.7832	126.5927	-41.5	A
SA14	62.3427	4.5	F3W2	-3482	8.5064	0	F5W8	3277	8.6428	9.3312	F3W4	1893	3.7832	126.8427	-41.5	A
SA14	63.5927	4.5	F5W6	-4048	9.9323	0	F3W8	4515	11.9504	9.3312	F3W4	641	0	128.0927	-41.5	A
SA14	63.8427	4.5	F5W6	-7982	19.7755	0	F3W8	10615	28.1842	15.552	F3W4	1097	0	128.3427	-41.5	A
SA14	65.8333	7.5	F5W6	-9965	24.5989	0	F3W8	14219	37.89	15.552	F3W8	3631	7.8015	130.3333	-41.5	A
SA14	68.125	4.5	F5W6	-5729	14.1114	0	F3W8	7499	19.8862	15.552	F3W4	1525	1.35	132.625	-41.5	A
SA14	68.375	4.5	F5W6	-3769	9.2541	0	F3W8	4509	11.9722	9.3312	F3W4	688	0	132.875	-41.5	A
SA14	69	4.5	F5W6	-2446	6.0155	0	F3W8	2599	6.9103	9.3312	F3W4	239	0	133.5	-41.5	A
SA14	69.625	4.5	F5W6	-2377	5.8492	0	F3W8	2580	6.8628	9.3312	F3W8	1967	4.0161	134.125	-41.5	A
SA14	69.875	4.5	F3W2	-1882	4.6043	9.3312	F5W8	1698	4.4592	0	F3W8	1778	3.424	134.375	-41.5	A
SA14	71.125	4.5	F3W2	-1745	4.263	9.3312	F5W8	1421	3.7297	0	F3W4	365	0	135.625	-41.5	A
SA14	71.375	4.5	F3W4	-2870	7.1299	15.552	F5W3	1188	3.1536	0	F3W4	967	0	135.875	-41.5	A
SA14	73.8325	7.5	F3W2	-1771	4.3316	15.552	F5W8	1327	3.5055	0	F3W7	101	0	138.3325	-41.5	A
SA14	76.29	0	F3W2	-1189	2.8939	15.552	F5W8	926	2.4364	0	F3W7	23	0	140.79	-41.5	A
SA14	76.5	0		0	0	0		0	0	0		0	0	141	-41.5	A
SA14	80.25	0		0	0	0		0	0	0		0	0	144.75	-41.5	A
SA14	84	0		0	0	0		0	0	0		0	0	148.5	-41.5	A
SA14	87.75	0		0	0	0		0	0	0		0	0	152.25	-41.5	A
SA14	91.5	0		0	0	0		0	0	0		0	0	156	-41.5	A
SA14	95.25	0		0	0	0		0	0	0		0	0	159.75	-41.5	A

SA14	99	0		0	0	0		0	0	0		0	0	163.5	-41.5	A
SA14	102.25	0		0	0	0		0	0	0		0	0	166.75	-41.5	A
SA14	105.5	0		0	0	0		0	0	0		0	0	170	-41.5	A
SA15	0	0.0223	F5W8	-0.538	0.0013	0	F3W2	1.777	0.0047	0.0462	F3W8	0.06503	0	64.5	-34	A
SA15	1.5	0.0223	F5W8	-0.7505	0.0018	0	F3W2	2.179	0.0057	0.0462	F3W8	0.06503	0	66	-34	A
SA15	5.25	0.0223	F5W1	-2.889	0.007	0	F3W2	6.619	0.0174	0.0462	F3W2	1.032	0	69.75	-34	A
SA15	9	0.0223	F5W1	-6.001	0.0148	0	F3W2	12	0.0304	0.0462	F3W2	2.716	0	73.5	-34	A
SA15	12.75	0.0223	F5W1	-11	0.0271	0	F3W2	14	0.0366	0.0462	F3W2	1.287	0	77.25	-34	A
SA15	16.5	0.0223	F5W1	-14	0.0352	0	F3W2	19	0.0509	0.0462	F3W7	1.389	0	81	-34	A
SA15	20.25	0.0223	F5W1	-16	0.0401	0	F3W2	23	0.0603	0.0462	F3W7	0.7139	0	84.75	-34	A
SA15	24	0.0223	F5W5	-19	0.0479	0	F3W7	40	0.1081	0.0462	F3W7	0.9646	0	88.5	-34	A
SA15	26.3951	0.0223	F5W5	-24	0.0611	0	F3W7	59	0.1597	0.0462	F3W8	0.5855	0	90.8951	-34	A
SA15	28.7901	0.0223	F3W2	-5389	13.1863	0	F3W7	7145	18.9356	15.552	F3W8	5.072	0.0052	93.2901	-34	A
SA15	31.5	7.5	F5W5	-2267	5.7703	0	F3W7	9933	26.3682	15.552	F3W7	795	0	96	-34	A
SA15	34.8909	4.5	F5W5	-1493	3.8823	0	F3W7	7142	19.0293	9.3312	F3W7	848	0.81	99.3909	-34	A
SA15	35.1409	4.5	F5W5	-1361	3.7193	0	F3W7	8804	23.5866	9.3312	F3W7	1346	2.0681	99.6409	-34	A
SA15	39	7.5	F5W5	-1246	3.0939	0	F3W7	11757	31.24	15.552	F3W7	957	0	103.5	-34	A
SA15	40.7901	0.0223	F3W2	-2653	6.4756	0	F3W7	11703	31.081	15.552	F3W7	287	0	105.2901	-34	A
SA15	43.6451	0.0223	F5W3	-25	0.0628	0	F3W7	58	0.1546	0.0462	F3W6	1.175	0	108.1451	-34	A
SA15	46.5	0.0223	F5W3	-23	0.0569	0	F3W4	51	0.1375	0.0462	F3W6	1.942	0	111	-34	A
SA15	50.25	0.0223	F5W3	-16	0.041	0	F3W4	47	0.1259	0.0462	F3W7	2.867	0	114.75	-34	A
SA15	54	0.0223	F5W3	-20	0.0498	0	F3W8	35	0.0936	0.0462	F3W7	2.353	0	118.5	-34	A
SA15	56.0927	0.0223	F3W2	-6337	15.5067	15.552	F5W8	4890	12.897	0	F3W7	3.602	0.004	120.5927	-34	A
SA15	58.3427	7.5	F3W2	-6401	15.6657	15.552	F5W8	4602	12.1677	0	F3W4	494	0	122.8427	-34	A
SA15	60.5927	4.5	F3W2	-6169	15.1146	15.552	F5W8	3716	9.8666	0	F3W4	699	0	125.0927	-34	A
SA15	60.8427	4.5	F3W2	-4608	11.3019	9.3312	F5W8	3037	8.0628	0	F3W4	192	0	125.3427	-34	A
SA15	61.5	4.5	F3W2	-4693	11.5151	9.3312	F5W8	3020	8.0037	0	F3W7	46	0	126	-34	A
SA15	62.0927	4.5	F3W2	-5417	13.2974	9.3312	F5W8	4522	11.9825	0	F3W7	475	0	126.5927	-34	A
SA15	62.3427	4.5	F3W2	-5520	13.5689	9.3312	F5W8	4688	12.3994	0	F3W4	1213	1.6486	126.8427	-34	A
SA15	63.5927	4.5	F3W6	-5697	13.9927	0	F5W8	5714	15.174	9.3312	F3W4	1213	1.6486	128.0927	-34	A
SA15	63.8427	4.5	F5W6	-11182	27.5207	0	F3W8	15032	40.1156	15.552	F3W4	734	0	128.3427	-34	A
SA15	65.8333	7.5	F5W6	-13465	33.3053	0	F3W8	19529	52.4233	15.552	F3W8	4434	10.3241	130.3333	-34	A
SA15	68.0927	4.5	F5W6	-8756	21.6124	0	F3W8	9972	26.5174	15.552	F3W8	1594	1.404	132.5927	-34	A
SA15	68.3427	4.5	F3W6	-5839	14.4777	0	F3W8	5898	15.72	9.3312	F3W8	646	0	132.8427	-34	A
SA15	69	4.5	F3W2	-4723	11.7124	9.3312	F5W8	3797	10.0987	0	F3W8	205	0	133.5	-34	A
SA15	69.5927	4.5	F3W2	-4644	11.5136	9.3312	F5W8	3859	10.2664	0	F3W8	2701	6.3209	134.0927	-34	A
SA15	69.8427	4.5	F3W2	-4244	10.508	9.3312	F5W8	2686	7.1206	0	F3W8	2701	6.3209	134.3427	-34	A
SA15	71.0927	4.5	F3W2	-3791	9.3745	9.3312	F5W8	2036	5.4172	0	F3W4	329	0	135.5927	-34	A
SA15	71.3427	4.5	F3W7	-4386	10.981	15.552	F5W8	1773	4.7439	0	F3W8	968	0	135.8427	-34	A
SA15	73.8164	7.5	F3W2	-4966	12.2458	15.552	F5W8	2639	7.0827	0	F3W2	383	0	138.3164	-34	A
SA15	76.29	0.724	F3W2	-5191	12.7789	15.552	F5W8	2727	7.3524	0	F3W5	22	0	140.79	-34	A
SA15	76.5	0.724	F3W2	-1455	3.6322	1.5012	F5W8	693	1.918	0	F3W3	1.957	0	141	-34	A
SA15	80.25	0.724	F3W2	-745	1.8457	1.5012	F5W1	238	0.6818	0	F3W2	114	0.1303	144.75	-34	A
SA15	84	0.724	F3W7	-556	1.3732	1.5012	F5W10	0	0	0	F3W7	47	0	148.5	-34	A
SA15	87.75	0.724	F3W7	-296	0.722	1.5012	F5W6	19	0.0581	0	F3W8	71	0	152.25	-34	A
SA15	91.5	0.724	F3W2	-108	0.2686	1.5012	F3W8	100	0.2616	0	F3W8	90	0	156	-34	A
SA15	95.25	0.724	F5W2	-38	0.096	0	F3W8	105	0.2759	1.5012	F3W8	16	0	159.75	-34	A
SA15	99	0		0	0	0		0	0	0		0	0	163.5	-34	A
SA15	102.25	0		0	0	0		0	0	0		0	0	166.75	-34	A
SA15	105.5	0		0	0	0		0	0	0		0	0	170	-34	A
SA16	0	7.5	F5W8	-239	0.5826	0	F3W2	560	1.4786	15.552	F3W8	21	0	64.5	-26.5	A
SA16	1.5	7.5	F5W8	-338	0.825	0	F3W2	718	1.9134	15.552	F3W8	21	0	66	-26.5	A
SA16	3.7318	7.5	F3W2	-676	1.7324	0	F3W2	1317	3.5475	15.552	F3W8	58	0	68.2318	-26.5	A
SA16	5.9637	4.5	F5W8	-748	1.8381	0	F3W2	1485	3.8982	9.3312	F3W2	1311	1.9565	70.4637	-26.5	A
SA16	6.2137	4.5	F5W8	-845	2.0853	0	F3W2	1584	4.1573	9.3312	F3W2	1311	1.9565	70.7137	-26.5	A
SA16	9	7.5	F5W1	-2740	6.8142	0	F3W2	4476	11.7767	15.552	F3W2	1368	1.35	73.5	-26.5	A
SA16	11.2318	7.5	F5W1	-5359	13.2293	0	F3W2	7379	19.4857	15.552	F3W2	1368	1.35	75.7318	-26.5	A
SA16	13.4637	4.5	F5W1	-2619	6.5204	0	F3W2	3675	9.6882	9.3312	F3W2	720	0.81	77.9637	-26.5	A
SA16	13.7137	4.5	F5W1	-2608	6.5107	0	F3W2	3418	9.0066	9.3312	F3W2	720	0.81	78.2137	-26.5	A
SA16	16.5	7.5	F5W1	-4697	11.7509	0	F3W2	6906	18.2256	15.552	F3W7	642	0	81	-26.5	A
SA16	18.7318	7.5	F5W1	-5204	13.0446	0	F3W2	8138	21.5101	15.552	F3W7	1359	1.35	83.2318	-26.5	A
SA16	20.9637	4.5	F5W1	-3315	8.3791	0	F3W2	5153	13.6274	9.3312	F3W7	313	0	85.4637	-26.5	A
SA16	21.2137	4.5	F5W1	-3430	8.6882	0	F3W2	5417	14.3341	9.3312	F3W7	313	0	85.7137	-26.5	A
SA16	24	7.5	F5W5	-6137	15.3705	0	F3W7	12780	33.9757	15.552	F3W7	1357	1.35	88.5	-26.5	A
SA16	26.2318	7.5	F5W5	-6881	17.2669	0	F3W7	16498	44.0696	15.552	F3W8	281	0	90.7318	-26.5	A
SA16	28.4637	4.5	F5W5	-6080	15.3646	0	F3W7	17048	46.2579	9.3312	F3W8	988	0.943	92.9637	-26.5	A
SA16	28.7137	4.5	F5W5	-6151	15.529	0	F3W7	17472	47.4548	9.3312	F3W8	988	0.943	93.2137	-26.5	A
SA16	31.5	7.5	F5W5	-6781	16.7885	0	F3W7	24851	67.1123	15.552	F3W7	1849	2.2067	96	-26.5	A
SA16	35.25	7.5	F5W5	-6493	16.0351	0	F3W7	23546	63.4756	15.552	F3W4	1138	0	99.75	-26.5	A
SA16	39	7.5	F5W5	-5299	13.0916	0	F3W7	24103	65.0258	15.552	F3W3	527	0	103.5	-26.5	A
SA16	42.2293	4.6107	F5W3	-3599	8.9026	0	F3W7	12488	33.5231	9.5607	F3W6	746	0.8299	106.7293	-26.5	A
SA16	42.4793	4.6107	F5W3	-3694	9.1383	0	F3W7	10818	28.9373	9.5607	F3W6	746	0.8299	106.9793	-26.5	A
SA16	44.4896	7.5	F5W3	-5265	13.0105	0	F3W7	13877	36.9442	15.552	F3W4	2089	2.9606	108.9896	-26.5	A
SA16	46.5	7.5	F5W3	-4715	11.7268	0	F3W4	14478	38.575	15.552	F3W6	730	0	111	-26.5	A
SA16	50.25	7.5	F5W3	-3827	9.6975	0	F3W4	12706	33.7766	15.552	F3W7	964	0	114.75	-26.5	A
SA16	54	4.6107	F5W6	-4179	10.2209	0	F3W8	7369	19.5719	9.5607	F3W7	495	0	118.5	-26.5	A
SA16	54.163	4.6107	F5W6	-4439	10.8597	0	F3W8	7408	19.6764	9.5607	F3W7	1818	3.4957	118.663	-26.5	A
SA16	54.413	4.6107	F5W6	-4861	11.9029	0	F3W8	7555	20.072	9.5607	F3W7	1818	3.4957	118.913	-26.5	A
SA16	57.5028	7.5	F5W6	-7327	17.9277	0	F3W8	11446	30.3797	15.552	F3W4	1924	2.4417	122.0028	-26.5	A

SA16	60.5927	4.5	F5W6	-6527	15.9563	0	F3W8	7078	18.6833	15.552	F3W4	1658	1.6067	125.0927	-26.5	A
SA16	60.8427	4.5	F3W2	-4702	11.519	9.3312	F3W8	4014	10.5902	9.3312	F3W4	742	0.81	125.3427	-26.5	A
SA16	61.5	4.5	F3W2	-5213	12.789	9.3312	F5W8	4537	11.9836	0	F3W8	112	0	126	-26.5	A
SA16	62.0927	4.5	F5W6	-6602	16.2821	0	F3W8	7424	19.7275	9.3312	F3W7	608	0	126.5927	-26.5	A
SA16	62.3427	4.5	F5W6	-8656	21.444	0	F3W8	10101	26.9935	9.3312	F3W7	608	0	126.8427	-26.5	A
SA16	63.5927	4.5	F5W6	-8270	20.489	0	F3W8	10416	27.8544	9.3312	F3W4	422	0	128.0927	-26.5	A
SA16	63.8427	4.5	F5W6	-11076	27.3758	0	F3W8	13610	36.2201	15.552	F3W4	837	0	128.3427	-26.5	A
SA16	65.9677	7.5	F5W6	-17499	43.3758	0	F3W8	23336	62.9661	15.552	F3W8	4118	9.3324	130.4677	-26.5	A
SA16	68.0927	4.5	F5W6	-13096	32.3163	0	F3W8	14636	39.0954	15.552	F3W8	2708	4.9024	132.5927	-26.5	A
SA16	68.3427	4.5	F5W6	-9209	22.776	0	F3W8	10805	28.9433	9.3312	F3W8	1547	2.6973	132.8427	-26.5	A
SA16	69	4.5	F3W2	-7831	19.3405	9.3312	F5W8	6886	18.3331	0	F3W8	769	0.81	133.5	-26.5	A
SA16	69.5927	4.5	F3W2	-7627	18.8304	9.3312	F5W8	6252	16.6449	0	F3W8	1791	3.4633	134.0927	-26.5	A
SA16	69.8427	4.5	F3W2	-7423	18.3235	9.3312	F5W8	4704	12.4726	0	F3W8	1791	3.4633	134.3427	-26.5	A
SA16	71.0927	4.5	F3W2	-6889	16.9972	9.3312	F5W8	4658	12.4117	0	F3W8	708	0.81	135.5927	-26.5	A
SA16	71.3427	4.5	F3W2	-8067	19.856	15.552	F5W8	4363	11.6548	0	F3W8	1542	1.35	135.8427	-26.5	A
SA16	73.9213	7.5	F3W2	-8157	20.0884	15.552	F5W8	4703	12.5381	0	F3W2	529	0	138.4213	-26.5	A
SA16	76.5	7.5	F3W2	-8532	21.0454	15.552	F5W8	3838	10.2462	0	F3W2	440	0	141	-26.5	A
SA16	80.25	7.5	F3W2	-6739	16.6428	15.552	F5W1	1594	4.4361	0	F3W2	839	0	144.75	-26.5	A
SA16	84	7.5	F3W7	-4881	12.0559	15.552	F5W1	688	1.9394	0	F3W8	1055	0	148.5	-26.5	A
SA16	86.4759	4.5	F3W4	-3029	7.473	9.3312	F5W6	158	0.508	0	F3W8	1544	2.6884	150.9759	-26.5	A
SA16	86.7259	4.5	F3W4	-2842	6.9998	9.3312	F5W5	353	0.978	0	F3W8	1544	2.6884	151.2259	-26.5	A
SA16	89.1129	7.5	F5W6	-2174	5.4124	0	F3W8	4607	12.2402	15.552	F3W8	1662	1.6178	153.6129	-26.5	A
SA16	91.5	7.5	F5W6	-1629	4	0	F3W8	4523	11.9629	15.552	F3W8	796	0	156	-26.5	A
SA16	95.2355	7.5	F3W8	-1834	4.4733	15.552	F3W8	1028	2.7039	0	F3W8	470	0	159.7355	-26.5	A
SA16	98.9711	0	F3W1	-272	0.6708	15.552	F3W8	247	0.6572	0	F3W8	30	0	163.4711	-26.5	A
SA16	99	0		0	0	0		0	0	0		0	0	163.5	-26.5	A
SA16	102.25	0		0	0	0		0	0	0		0	0	166.75	-26.5	A
SA16	105.5	0		0	0	0		0	0	0		0	0	170	-26.5	A
SA17	0	7.5	F3W2	-293	0.7123	15.552	F3W7	257	0.6786	0	F3W6	23	0	64.5	-19	A
SA17	1.5	7.5	F3W2	-392	0.9761	15.552	F3W7	351	0.9502	0	F3W6	23	0	66	-19	A
SA17	3.7822	7.5	F3W2	-1155	2.8781	15.552	F3W7	591	1.6385	0	F3W6	75	0	68.2822	-19	A
SA17	6.0645	4.5	F5W1	-1373	3.3913	9.3312	F3W2	1289	3.3821	0	F3W2	1480	2.4882	70.5645	-19	A
SA17	6.3145	4.5	F5W1	-3345	8.2388	0	F3W2	3916	10.329	9.3312	F3W2	1515	2.5979	70.8145	-19	A
SA17	9	7.5	F5W1	-5881	14.478	0	F3W2	7818	20.6558	15.552	F3W2	1541	1.35	73.5	-19	A
SA17	11.2318	7.5	F5W1	-7894	19.4371	0	F3W2	10297	27.2899	15.552	F3W2	1541	1.35	75.7318	-19	A
SA17	13.4637	4.5	F5W1	-3738	9.2254	0	F3W2	5040	13.3259	9.3312	F3W2	231	0	77.9637	-19	A
SA17	13.7137	4.5	F5W1	-3739	9.2441	0	F3W2	4635	12.2434	9.3312	F3W7	454	0	78.2137	-19	A
SA17	16.5	7.5	F5W1	-5497	13.5869	0	F3W2	8365	22.115	15.552	F3W7	722	0	81	-19	A
SA17	18.7318	7.5	F5W5	-6120	15.1178	0	F3W2	9291	24.5917	15.552	F3W7	1441	1.35	83.2318	-19	A
SA17	20.9637	4.5	F5W5	-3681	9.1017	0	F3W2	5715	15.1328	9.3312	F3W7	790	0.81	85.4637	-19	A
SA17	21.2137	4.5	F5W5	-3857	9.5404	0	F3W2	5424	14.353	9.3312	F3W7	790	0.81	85.7137	-19	A
SA17	24	7.5	F5W5	-6346	15.6453	0	F3W7	11062	29.345	15.552	F3W7	1248	1.35	88.5	-19	A
SA17	26.2318	7.5	F5W5	-6183	15.2007	0	F3W7	10648	28.2326	15.552	F3W2	548	0	90.7318	-19	A
SA17	28.4637	4.5	F5W5	-9534	23.5893	0	F3W2	15929	43.1139	9.3312	F5W8	504	0	92.9637	-19	A
SA17	28.7137	4.5	F5W5	-13454	33.5092	0	F3W2	23967	66.0781	9.3312	F3W2	952	0.8285	93.2137	-19	A
SA17	31.5	7.5	F5W5	-11049	27.1446	0	F3W7	34245	93.6657	15.552	F3W7	3077	6.0627	96	-19	A
SA17	35.1667	6.0334	F5W5	-7989	19.6024	0	F3W7	43409	120.276	15.552	F3W7	2710	4.9112	99.6667	-19	A
SA17	39	4.6107	F5W3	-1579	3.909	0	F3W7	9990	26.6781	9.5607	F3W2	554	0	103.5	-19	A
SA17	39.1219	4.6107	F5W5	-2490	6.0729	0	F3W7	14023	37.7675	9.5607	F3W2	1965	3.9563	103.6219	-19	A
SA17	39.3719	4.6107	F5W5	-2734	6.6813	0	F3W7	14735	39.7458	9.5607	F3W2	1965	3.9563	103.8719	-19	A
SA17	42.936	7.3893	F5W3	-2035	5.1465	0	F3W7	13933	37.1048	15.3225	F3W6	534	0	107.436	-19	A
SA17	46.5	4.6107	F5W3	-1917	4.7976	0	F3W4	6708	17.7926	9.5607	F3W8	654	0	111	-19	A
SA17	46.6219	4.6107	F5W3	-2154	5.3757	0	F3W7	9568	25.5286	9.5607	F3W2	1980	4.0039	111.1219	-19	A
SA17	46.8719	4.6107	F5W3	-1881	4.7152	0	F3W4	8268	22.0008	9.5607	F3W2	1980	4.0039	111.3719	-19	A
SA17	50.436	7.5	F5W3	-2637	6.6362	0	F3W4	10798	28.6361	15.552	F3W7	597	0	114.936	-19	A
SA17	54	4.47	F5W6	-3312	8.0889	0	F3W8	7983	21.2398	9.2689	F3W2	298	0	118.5	-19	A
SA17	54.133	4.47	F5W6	-3320	8.109	0	F3W8	8059	21.4461	9.2689	F3W2	304	0	118.633	-19	A
SA17	54.383	4.47	F5W6	-3874	9.47	0	F3W8	6347	16.8278	9.2689	F3W2	1834	3.6132	118.883	-19	A
SA17	57.9415	7.5	F5W6	-6132	15.0719	0	F3W8	12990	34.5452	15.552	F3W1	1184	1.35	122.4415	-19	A
SA17	61.5	4.6107	F5W6	-4512	11.1315	0	F3W8	7805	20.7477	9.5607	F3W8	455	0	126	-19	A
SA17	61.6219	4.6107	F5W6	-4523	11.1585	0	F3W8	7863	20.9057	9.5607	F3W8	2064	4.2688	126.1219	-19	A
SA17	61.8719	4.6107	F5W6	-3910	9.6508	0	F3W8	6917	18.3547	9.5607	F3W8	2064	4.2688	126.3719	-19	A
SA17	65.8333	7.5	F5W6	-24074	60.077	0	F3W8	44594	123.7683	15.552	F3W8	7235	0	130.3333	-19	A
SA17	68.1219	4.498	F5W6	-18925	46.9996	0	F3W8	24438	65.9592	15.552	F3W8	3135	6.2448	132.6219	-19	A
SA17	68.3719	4.4686	F3W6	-9995	24.7634	0	F3W8	10151	27.1335	9.2742	F3W8	639	0	132.8719	-19	A
SA17	69	4.3985	F3W6	-9959	24.6796	0	F3W8	9414	25.132	9.1275	F3W8	622	0	133.5	-19	A
SA17	69.6219	4.4973	F3W6	-10333	25.6126	9.3256	F5W8	9307	24.8296	0	F3W8	2170	4.6552	134.1219	-19	A
SA17	69.8719	4.5	F3W6	-9427	23.3357	9.3312	F5W8	6739	17.8823	0	F3W8	2182	4.691	134.3719	-19	A
SA17	71.1219	4.5	F3W6	-9216	22.8059	9.3312	F5W8	5215	13.7938	0	F3W8	184	0	135.6219	-19	A
SA17	71.3719	4.5	F3W6	-11867	29.2538	15.552	F5W8	5297	13.9517	0	F3W8	457	0	135.8719	-19	A
SA17	73.936	7.5	F3W6	-11406	28.1189	15.552	F5W8	4163	10.949	0	F3W6	729	0	138.436	-19	A
SA17	76.5	7.5	F3W6	-10398	25.6348	15.552	F5W8	2316	6.0778	0	F3W6	645	0	141	-19	A
SA17	80.25	7.5	F3W6	-7269	17.9264	15.552	F5W8	257	0.6985	0	F3W6	818	0	144.75	-19	A
SA17	84	7.5	F3W4	-5158	12.5927	15.552	F5W8	188	0.492	0	F3W8	1700	1.7391	148.5	-19	A
SA17	86.4759	4.5	F3W8	-3670	8.9997	9.3312	F5W5	123	0.3273	0	F3W8	1265	1.8122	150.9759	-19	A
SA17	86.7259	4.5	F3W8	-2911	7.104	9.3312	F5W1	592	1.5507	0	F3W8	2301	5.0641	151.2259	-19	A
SA17	89.1129	7.5	F5W6	-4885	12.3302	0	F3W8	16337	43.8072	15.552	F3W8	4919	11.8471	153.6129	-19	A
SA17	91.5	4.5	F3W8	-2257	5.5781	0	F3W8	4555	12.1148	9.3312	F3W2	120	0	156	-19	A
SA17	92.9711	4.5	F3W8	-2514	6.1663	0	F3W8	4655	12.346	9.3312	F3W8	3577	0	157.4711	-19	A

SA17	93.2211	4.5	F3W8	-2699	6.606	0	F3W8	3290	8.6898	9.3312	F3W8	3577	0	157.7211	-19 A
SA17	96.0961	7.5	F3W8	-2112	5.1851	15.552	F3W8	925	2.4728	0	F3W8	215	0	160.5961	-19 A
SA17	98.9711	0	F3W1	-746	1.8291	15.552	F3W8	604	1.6003	0	F5W3	6.03	0	163.4711	-19 A
SA17	99	0		0	0	0		0	0	0		0	0	163.5	-19 A
SA17	102.25	0		0	0	0		0	0	0		0	0	166.75	-19 A
SA17	105.5	0		0	0	0		0	0	0		0	0	170	-19 A
SA18	0	4.4777	F3W3	-208	0.5047	0	F5W7	271	0.7115	9.285	F3W2	24	0	64.5	-11.5 A
SA18	1.5	4.4777	F3W3	-274	0.6667	0	F5W7	300	0.7922	9.285	F3W2	24	0	66	-11.5 A
SA18	5.25	4.4777	F3W3	-859	2.0899	9.285	F5W7	699	1.8316	0	F3W2	53	0	69.75	-11.5 A
SA18	9	4.4777	F3W5	-1348	3.2817	0	F5W7	1735	4.556	9.285	F3W2	587	0	73.5	-11.5 A
SA18	12.75	4.4777	F5W5	-2539	6.1921	0	F3W2	2640	6.946	9.285	F3W8	98	0	77.25	-11.5 A
SA18	16.5	4.4777	F5W1	-2809	6.8532	0	F3W2	3555	9.3698	9.285	F3W2	480	0	81	-11.5 A
SA18	20.25	4.4777	F3W5	-3943	9.6408	0	F3W2	4729	12.4956	9.285	F5W1	43	0	84.75	-11.5 A
SA18	24	4.4777	F5W5	-5825	14.2901	0	F3W7	9691	25.8776	9.285	F3W7	423	0	88.5	-11.5 A
SA18	27.6773	7.5	F5W5	-8654	21.2052	0	F3W7	14796	39.4365	15.552	F3W3	129	0	92.1773	-11.5 A
SA18	31.3546	4.5	F5W5	-5047	12.363	0	F3W7	11584	31.0563	9.3312	F3W7	2679	6.2512	95.8546	-11.5 A
SA18	31.5	4.5	F5W5	-5012	12.2765	0	F3W7	11915	31.9663	9.3312	F3W7	1738	3.2967	96	-11.5 A
SA18	31.6046	4.5	F5W5	-5273	12.9227	0	F3W2	12158	32.6356	9.3312	F3W7	1738	3.2967	96.1046	-11.5 A
SA18	35.1667	6.613	F5W5	-8803	21.6023	0	F3W7	34800	95.8803	13.7126	F3W7	5837	0	99.6667	-11.5 A
SA18	39	7.3893	F5W5	-6037	14.7529	0	F3W2	21746	58.5092	15.3225	F3W2	991	0	103.5	-11.5 A
SA18	42.75	7.5	F5W5	-4374	10.6692	0	F3W7	13790	36.7077	15.552	F3W2	1493	1.35	107.25	-11.5 A
SA18	46.5	7.3893	F5W5	-2662	6.4821	0	F3W4	8843	23.3984	15.3225	F3W2	768	0	111	-11.5 A
SA18	50.25	7.5	F5W6	-922	2.2407	0	F3W8	8483	22.4301	15.552	F3W2	894	0	114.75	-11.5 A
SA18	54	7.4194	F5W6	-4241	10.3431	0	F3W8	9346	24.7427	15.3848	F3W7	1836	2.2038	118.5	-11.5 A
SA18	57.75	7.5	F5W6	-6190	15.1545	0	F3W8	13625	36.2628	15.552	F3W8	1779	1.9862	122.25	-11.5 A
SA18	61.5	7.3893	F5W6	-8782	21.6255	0	F3W8	18459	49.4502	15.3225	F3W8	705	0	126	-11.5 A
SA18	63.6667	7.5	F5W6	-12576	30.9923	0	F3W8	27000	73.1241	15.552	F3W8	1926	2.4473	128.1667	-11.5 A
SA18	65.8333	7.5	F5W6	-14557	36.0503	0	F3W8	33792	92.368	15.552	F3W8	7634	0	130.3333	-11.5 A
SA18	69	4.5	F3W6	-8667	21.4614	0	F3W8	9114	24.304	9.3312	F3W8	657	0	133.5	-11.5 A
SA18	69.6219	4.5	F3W6	-8954	22.1733	9.3312	F3W8	8916	23.7674	9.3312	F3W8	3159	7.7594	134.1219	-11.5 A
SA18	69.8719	4.5	F3W6	-8874	21.9774	9.3312	F3W8	6811	18.0758	0	F3W8	3159	7.7594	134.3719	-11.5 A
SA18	73.186	7.5	F3W6	-13369	33.0447	15.552	F5W8	4252	11.1853	0	F3W6	761	0	137.686	-11.5 A
SA18	76.5	3.776	F3W6	-10044	25.0541	7.83	F5W8	1341	3.5209	0	F3W8	192	0	141	-11.5 A
SA18	80.25	3.776	F3W6	-4852	12.0136	7.83	F5W8	609	1.597	0	F3W6	557	0	144.75	-11.5 A
SA18	84	3.776	F3W7	-2932	7.1628	7.83	F5W10	0	0	0	F3W8	263	0	148.5	-11.5 A
SA18	87.75	3.776	F3W4	-1882	4.5883	7.83	F5W8	88	0.2312	0	F3W8	584	0.6797	152.25	-11.5 A
SA18	91.5	3.776	F5W6	-788	1.9428	0	F3W8	1884	4.9536	7.83	F3W8	434	0	156	-11.5 A
SA18	95.2355	3.776	F5W6	-351	0.8638	0	F3W8	1495	3.9298	7.83	F3W8	191	0	159.7355	-11.5 A
SA18	98.9711	0	F5W6	-89	0.218	0	F3W8	530	1.3909	7.83	F3W6	26	0	163.4711	-11.5 A
SA18	99	0		0	0	0		0	0	0		0	0	163.5	-11.5 A
SA18	102.25	0		0	0	0		0	0	0		0	0	166.75	-11.5 A
SA18	105.5	0		0	0	0		0	0	0		0	0	170	-11.5 A
SA19	0	0		0	0	0		0	0	0		0	0	64.5	-4 A
SA19	1.5	0		0	0	0		0	0	0		0	0	66	-4 A
SA19	5.25	0		0	0	0		0	0	0		0	0	69.75	-4 A
SA19	9	0		0	0	0		0	0	0		0	0	73.5	-4 A
SA19	12.75	0		0	0	0		0	0	0		0	0	77.25	-4 A
SA19	16.5	0		0	0	0		0	0	0		0	0	81	-4 A
SA19	20.25	0		0	0	0		0	0	0		0	0	84.75	-4 A
SA19	24	0		0	0	0		0	0	0		0	0	88.5	-4 A
SA19	25.0927	0	F3W7	-7284	17.856	0	F3W7	7387	19.5412	15.552	F3W1	24	0	89.5927	-4 A
SA19	28.2963	7.5	F3W4	-5522	13.5852	0	F3W7	6893	18.2969	15.552	F3W6	104	0	92.7963	-4 A
SA19	31.5	6.7017	F5W1	-6387	15.6262	0	F3W2	9726	25.7965	13.8967	F3W2	4002	9.3491	96	-4 A
SA19	35.25	7.5	F5W1	-9745	23.9081	0	F3W2	32451	88.5384	15.552	F3W2	823	0	99.75	-4 A
SA19	39	6.8533	F5W1	-9492	23.3018	0	F3W2	25657	69.5881	14.211	F3W6	1379	1.2336	103.5	-4 A
SA19	42.75	6.8533	F5W1	-6026	14.7327	0	F3W7	16093	43.0485	14.211	F3W2	1102	1.2336	107.25	-4 A
SA19	46.5	6.8533	F5W1	-2518	6.1305	0	F3W7	11692	31.0846	14.211	F3W2	1031	0	111	-4 A
SA19	50.25	6.8533	F5W6	-358	0.869	0	F3W8	9028	23.9151	14.211	F3W1	998	0	114.75	-4 A
SA19	54	6.8533	F5W6	-2767	6.7392	0	F3W8	11691	31.0816	14.211	F3W1	800	0	118.5	-4 A
SA19	57.75	6.8533	F5W2	-5939	14.5199	0	F3W8	17027	45.6086	14.211	F3W1	1470	1.3251	122.25	-4 A
SA19	61.5	6.8533	F5W2	-8011	19.6326	0	F3W8	26530	72.0473	14.211	F3W5	1239	1.2336	126	-4 A
SA19	65.25	7.5	F5W2	-10220	25.0845	0	F3W8	38303	105.36	15.552	F3W8	310	0	129.75	-4 A
SA19	69	6.7205	F3W6	-10065	24.7314	0	F3W5	12437	33.1117	13.9357	F3W8	1515	1.5316	133.5	-4 A
SA19	72.645	7.5	F3W3	-9449	23.2423	15.552	F3W3	6931	18.3663	0	F5W3	248	0	137.145	-4 A
SA19	76.29	0	F3W3	-8377	20.5673	0	F3W3	8036	21.2873	15.552	F3W7	57	0	140.79	-4 A
SA19	76.5	0		0	0	0		0	0	0		0	0	141	-4 A
SA19	80.25	0		0	0	0		0	0	0		0	0	144.75	-4 A
SA19	84	0		0	0	0		0	0	0		0	0	148.5	-4 A
SA19	87.75	0		0	0	0		0	0	0		0	0	152.25	-4 A
SA19	91.5	0		0	0	0		0	0	0		0	0	156	-4 A
SA19	95.25	0		0	0	0		0	0	0		0	0	159.75	-4 A
SA19	99	0		0	0	0		0	0	0		0	0	163.5	-4 A
SA19	102.25	0		0	0	0		0	0	0		0	0	166.75	-4 A
SA19	105.5	0		0	0	0		0	0	0		0	0	170	-4 A
SA20	0	0		0	0	0		0	0	0		0	0	64.5	3.5 A
SA20	1.5	0		0	0	0		0	0	0		0	0	66	3.5 A
SA20	5.25	0		0	0	0		0	0	0		0	0	69.75	3.5 A
SA20	9	0		0	0	0		0	0	0		0	0	73.5	3.5 A
SA20	12.75	0		0	0	0		0	0	0		0	0	77.25	3.5 A

SA20	16.5	0		0	0	0		0	0	0		0	0	81	3.5	A
SA20	20.25	0		0	0	0		0	0	0		0	0	84.75	3.5	A
SA20	24	0		0	0	0		0	0	0		0	0	88.5	3.5	A
SA20	25.0927	0	F3W4	-9929	24.3851	15.552	F3W4	8091	21.4062	0	F3W7	50	0	89.5927	3.5	A
SA20	28.0927	7.5	F3W4	-10812	26.5586	15.552	F5W4	4791	12.6262	0	F3W4	382	0	92.5927	3.5	A
SA20	31.0927	4.5	F3W4	-8016	19.7778	9.3312	F5W4	1220	3.2357	0	F3W6	2163	4.6316	95.5927	3.5	A
SA20	31.3427	4.5	F3W4	-7672	18.8836	9.3312	F5W4	2040	5.4797	0	F3W6	2163	4.6316	95.8427	3.5	A
SA20	31.5	4.5	F3W3	-7108	17.7457	9.3312	F5W4	1992	5.3484	0	F3W6	544	0	96	3.5	A
SA20	34.0834	7.5	F5W8	-4721	11.5191	0	F3W6	8997	24.0535	15.552	F3W6	902	0	98.5834	3.5	A
SA20	36.6667	0	F3W3	-6728	16.5013	0	F3W6	11351	30.2214	15.552	F3W6	208	0	101.1667	3.5	A
SA20	39	0		0	0	0		0	0	0		0	0	103.5	3.5	A
SA20	42.75	0		0	0	0		0	0	0		0	0	107.25	3.5	A
SA20	46.5	0		0	0	0		0	0	0		0	0	111	3.5	A
SA20	50.25	0		0	0	0		0	0	0		0	0	114.75	3.5	A
SA20	54	0		0	0	0		0	0	0		0	0	118.5	3.5	A
SA20	57.75	0		0	0	0		0	0	0		0	0	122.25	3.5	A
SA20	61.5	0		0	0	0		0	0	0		0	0	126	3.5	A
SA20	64.3333	0	F3W3	-7386	18.2489	0	F3W3	14771	39.5545	15.552	F3W5	456	0	128.8333	3.5	A
SA20	66.6667	7.5	F5W6	-7091	17.4404	0	F3W5	13593	36.2723	15.552	F3W8	3024	5.8953	131.1667	3.5	A
SA20	69	4.4999	F3W6	-5976	14.7004	9.331	F3W3	3154	8.3067	0	F3W5	921	0.81	133.5	3.5	A
SA20	70.3214	4.4999	F3W6	-6646	16.3505	9.331	F5W3	2946	7.7544	0	F3W1	3465	0	134.8214	3.5	A
SA20	70.5714	4.4999	F3W6	-7120	17.5252	9.331	F5W3	2941	7.7411	0	F3W1	3058	7.4421	135.0714	3.5	A
SA20	73.4307	7.5	F3W3	-8514	20.8592	15.552	F3W3	7586	20.0358	0	F3W8	607	0	137.9307	3.5	A
SA20	76.29	2.4022	F5W7	-8608	21.1036	0	F3W5	11003	29.1853	15.552	F3W8	164	0	140.79	3.5	A
SA20	76.5	2.4022	F5W7	-4470	11.0163	0	F3W5	5645	15.1011	4.9812	F3W8	142	0	141	3.5	A
SA20	80.25	2.4022	F5W7	-2559	6.2769	0	F3W5	3186	8.44	4.9812	F3W1	154	0	144.75	3.5	A
SA20	84	2.4022	F3W2	-1941	4.7437	0	F3W5	2564	6.7761	4.9812	F3W2	96	0	148.5	3.5	A
SA20	87.75	2.4022	F5W2	-1685	4.1249	0	F3W5	2341	6.1801	4.9812	F3W6	75	0	152.25	3.5	A
SA20	91.5	2.4022	F3W2	-1406	3.4293	0	F3W5	2216	5.8487	4.9812	F3W5	32	0	156	3.5	A
SA20	95.25	2.4022	F5W2	-1173	2.8664	0	F3W1	1843	4.8566	4.9812	F3W6	37	0	159.75	3.5	A
SA20	99	2.4022	F5W2	-673	1.6367	0	F3W1	1070	2.8119	4.9812	F3W2	67	0	163.5	3.5	A
SA20	102.25	2.4022	F5W2	-250	0.6076	0	F3W5	434	1.1373	4.9812	F3W2	67	0	166.75	3.5	A
SA20	105.5	0		0	0	0		0	0	0		0	0	170	3.5	A
SA21	0	0		0	0	0		0	0	0		0	0	64.5	11	A
SA21	1.5	0		0	0	0		0	0	0		0	0	66	11	A
SA21	2.1908	0	F3W6	-142	0.3488	11.7774	F3W8	101	0	0	F3W8	9.212	0	66.6908	11	A
SA21	5.5954	5.6797	F3W6	-276	0.6833	0	F3W6	347	0.9215	11.7774	F3W8	28	0	70.0954	11	A
SA21	9	4.5	F3W6	-1197	2.9119	0	F3W6	5355	14.1688	9.3312	F3W2	178	0	73.5	11	A
SA21	12.75	5.6797	F5W8	-3770	9.2139	0	F3W6	11250	29.9875	11.7774	F3W6	2629	5.5298	77.25	11	A
SA21	16.5	4.5	F3W5	-3799	9.2849	9.3312	F5W2	377	0.988	0	F3W2	493	0	81	11	A
SA21	20.25	5.6797	F3W3	-7277	17.8503	11.7774	F5W6	55	0	0	F3W8	637	0	84.75	11	A
SA21	24	5.6797	F3W8	-9513	23.4096	11.7774	F5W10	0	0	0	F3W8	752	0	88.5	11	A
SA21	27.5463	7.5	F3W8	-11576	28.4543	15.552	F5W4	529	1.3862	0	F5W3	791	0	92.0463	11	A
SA21	31.0927	4.5	F3W1	-10600	26.2282	9.3312	F5W6	3350	8.8263	0	F3W6	6593	0	95.5927	11	A
SA21	31.3427	4.5	F3W1	-11232	27.8269	9.3312	F5W6	5134	13.5991	0	F3W6	6548	0	95.8427	11	A
SA21	31.5	4.5	F3W1	-11189	27.7165	9.3312	F5W2	3613	9.562	0	F3W6	841	0.81	96	11	A
SA21	36.6667	1.0367	F3W5	-10773	26.7588	0	F3W6	19995	53.7501	15.552	F3W1	76	0	101.1667	11	A
SA21	39	1.0367	F3W5	-2197	5.4256	0	F3W3	4508	12.3031	2.1497	F3W1	290	0.4127	103.5	11	A
SA21	42.75	1.0367	F3W5	-1545	3.7951	0	F3W3	3723	10.0816	2.1497	F3W3	682	1.6449	107.25	11	A
SA21	46.5	1.0367	F5W1	-438	1.0767	0	F3W3	3481	9.4055	2.1497	F3W6	509	1.1004	111	11	A
SA21	50.25	1.0367	F5W7	-317	0.8137	0	F3W3	2347	6.2742	2.1497	F3W1	321	0.5096	114.75	11	A
SA21	54	1.0367	F5W7	-313	0.7976	0	F3W3	2736	7.3384	2.1497	F3W5	557	1.2521	118.5	11	A
SA21	57.75	1.0367	F3W6	-412	1.0044	0	F3W3	3656	9.8936	2.1497	F3W3	529	1.1644	122.25	11	A
SA21	61.5	1.0367	F3W6	-1437	3.5267	0	F3W3	4326	11.7838	2.1497	F3W6	334	0.5499	126	11	A
SA21	64.3333	1.0367	F5W2	-9724	24.0555	0	F3W1	30430	82.7952	15.552	F3W3	228	0	128.8333	11	A
SA21	66.6667	7.5	F5W2	-11053	27.3683	0	F3W1	43742	121.2547	15.552	F3W3	7631	0	131.1667	11	A
SA21	69	5.1322	F5W2	-8065	20.0003	0	F3W1	23456	64.1581	10.6422	F3W5	999	0.9238	133.5	11	A
SA21	70.29	5.1322	F5W2	-9410	23.3504	0	F3W1	16058	43.2852	10.6422	F3W3	2207	4.4683	134.79	11	A
SA21	70.54	5.1322	F5W2	-9537	23.6753	0	F3W1	15255	41.0564	10.6422	F3W3	2061	4.008	135.04	11	A
SA21	73.3994	7.5	F5W7	-8919	21.9904	0	F3W5	12459	33.1099	15.552	F3W3	208	0	137.8994	11	A
SA21	76.2587	4.5	F5W7	-6906	17.08	0	F3W5	11102	29.4532	15.552	F3W5	1703	1.7463	140.7587	11	A
SA21	76.5	4.5	F5W7	-4649	11.4951	0	F3W5	6234	16.5237	9.3312	F3W5	632	0	141	11	A
SA21	77.7587	4.5	F5W7	-4627	11.4492	0	F3W5	5511	14.5841	9.3312	F3W6	564	0	142.2587	11	A
SA21	78.0087	4.5	F5W7	-4425	10.923	0	F3W5	5370	14.2071	9.3312	F3W6	564	0	142.5087	11	A
SA21	79.2587	4.5	F5W7	-4073	10.0563	0	F3W1	5777	15.2979	9.3312	F3W5	553	0	143.7587	11	A
SA21	79.5087	4.5	F5W7	-5825	14.3843	0	F3W5	8280	21.8881	15.552	F3W5	1127	0	144.0087	11	A
SA21	81.6337	7.5	F5W2	-5751	14.1492	0	F3W5	9296	24.6066	15.552	F3W1	802	0	146.1337	11	A
SA21	83.7587	4.5	F5W2	-5063	12.4731	0	F3W5	7452	19.6798	15.552	F3W1	802	0	148.2587	11	A
SA21	84	4.5	F5W2	-3776	9.2972	0	F3W1	5269	13.9383	9.3312	F3W1	649	0	148.5	11	A
SA21	85.2587	4.5	F5W2	-3488	8.5898	0	F3W1	4653	12.2929	9.3312	F3W1	333	0	149.7587	11	A
SA21	85.5087	4.5	F5W2	-3756	9.2441	0	F3W1	5184	13.7109	9.3312	F3W1	408	0	150.0087	11	A
SA21	86.7587	4.5	F5W2	-5174	12.7202	0	F3W1	6958	18.4711	9.3312	F3W1	972	0.8934	151.2587	11	A
SA21	87.0087	4.5	F5W2	-5840	14.3625	0	F3W1	9350	24.7504	15.552	F3W1	972	0.8934	151.5087	11	A
SA21	89.1337	7.5	F5W2	-5246	12.8835	0	F3W1	9344	24.7355	15.552	F3W2	373	0	153.6337	11	A
SA21	91.2587	4.5	F5W2	-6091	15.0027	0	F3W1	9969	26.4098	15.552	F3W1	948	0	155.7587	11	A
SA21	91.5	4.5	F5W2	-3724	9.1967	0	F3W1	5908	15.6488	9.3312	F3W1	557	0	156	11	A
SA21	92.7587	4.5	F5W2	-8295	20.5508	0	F3W1	10539	28.1917	9.3312	F3W1	4825	0	157.2587	11	A
SA21	93.0087	4.5	F5W2	-7633	18.8048	0	F3W1	9333	24.8997	9.3312	F3W1	4825	0	157.5087	11	A
SA21	94.2587	4.5	F5W2	-5639	13.8821	0	F3W1	6711	17.8069	9.3312	F3W1	361	0	158.7587	11	A

SA21	94.5087	4.5	F5W2	-6082	14.9355	0	F3W1	7799	20.6054	15.552	F3W1	417	0	159.0087	11 A
SA21	96.7543	7.4438	F5W2	-4015	9.8414	0	F3W1	5155	13.5754	15.4415	F3W1	970	0	161.2543	11 A
SA21	99	5.8208	F3W2	-1379	3.3931	0	F3W1	1569	4.1801	12.0699	F3W1	409	0	163.5	11 A
SA21	99.2539	5.8497	F3W1	-1523	3.7174	0	F3W2	1437	3.8003	12.1339	F3W1	390	0	163.7539	11 A
SA21	99.5039	5.8497	F3W1	-1560	3.7952	0	F3W2	1505	3.9718	12.1339	F3W1	370	0	164.0039	11 A
SA21	102.3789	7.4983	F3W1	-560	1.4538	15.5484	F3W5	470	1.3322	0	F3W1	467	0	166.8789	11 A
SA21	105.2539	0	F3W1	-247	0.6429	15.552	F3W1	214	0.6047	0	F3W1	87	0	169.7539	11 A
SA21	105.5	0		0	0	0		0	0	0		0	0	170	11 A
SA22	0	0		0	0	0		0	0	0		0	0	64.5	18.5 A
SA22	1.5	0		0	0	0		0	0	0		0	0	66	18.5 A
SA22	2.1908	0	F3W6	-146	0.3612	13.1058	F3W6	128	0.3411	0	F3W6	13	0	66.6908	18.5 A
SA22	5.1908	6.3203	F3W6	-410	1.0215	13.1058	F3W6	289	0.7855	0	F3W6	40	0	69.6908	18.5 A
SA22	8.1908	4.5	F3W6	-1004	2.443	0	F3W6	3040	8.0036	9.3312	F3W6	1760	3.3668	72.6908	18.5 A
SA22	8.4408	4.5	F5W8	-1194	2.927	0	F3W6	5417	14.3335	9.3312	F3W6	1760	3.3668	72.9408	18.5 A
SA22	9	4.5	F5W8	-1259	3.0852	0	F3W6	5273	13.949	9.3312	F5W1	121	0	73.5	18.5 A
SA22	12.3454	6.3203	F5W8	-4552	11.1592	0	F3W6	14861	39.7557	13.1058	F3W6	3129	6.7915	76.8454	18.5 A
SA22	15.6908	4.5	F3W3	-4030	9.855	9.3312	F5W2	1155	3.0502	0	F3W6	3085	7.5284	80.1908	18.5 A
SA22	15.9408	4.5	F3W3	-4699	11.5052	9.3312	F3W7	879	2.5848	0	F3W6	3085	7.5284	80.4408	18.5 A
SA22	16.5	4.5	F3W3	-5170	12.6686	9.3312	F5W7	274	1.0173	0	F3W6	895	0.81	81	18.5 A
SA22	20.25	7.5	F3W3	-8046	19.7027	15.552	F3W6	46	0	0	F3W6	936	0	84.75	18.5 A
SA22	24	7.5	F3W1	-6979	17.1234	15.552	F5W10	0	0	0	F3W8	420	0	88.5	18.5 A
SA22	27.5463	7.5	F3W1	-9544	23.4567	15.552	F5W6	2338	6.1346	0	F3W8	434	0	92.0463	18.5 A
SA22	31.0927	5.2965	F3W1	-10118	24.9712	10.9865	F3W6	8883	23.6099	0	F3W3	693	0	95.5927	18.5 A
SA22	31.3427	5.2983	F3W1	-11219	27.7504	0	F3W6	10441	27.828	10.9865	F3W3	698	0	95.8427	18.5 A
SA22	31.5	5.2983	F3W1	-11470	28.3819	0	F3W6	10837	28.9037	10.9865	F3W3	698	0	96	18.5 A
SA22	37.0355	4.5	F5W8	-7620	18.9107	0	F3W3	18084	49.1839	9.3312	F3W3	863	0.81	101.5355	18.5 A
SA22	38.2855	4.5	F3W5	-7946	19.5882	0	F3W3	13970	37.6469	9.3312	F5W6	891	0.81	102.7855	18.5 A
SA22	38.5355	4.5	F3W5	-8310	20.582	0	F3W3	13771	37.0953	9.3312	F3W8	932	0.81	103.0355	18.5 A
SA22	39	4.5	F3W5	-7864	19.4163	0	F3W3	12998	34.9531	9.3312	F3W8	932	0.81	103.5	18.5 A
SA22	39.7855	4.5	F3W5	-8513	20.9862	0	F3W3	13007	34.9782	9.3312	F3W3	1134	1.4003	104.2855	18.5 A
SA22	40.0355	4.5	F3W5	-11803	29.0196	0	F3W3	18009	48.1983	15.552	F3W3	1134	1.4003	104.5355	18.5 A
SA22	42.1605	7.5	F3W5	-8982	22.0176	0	F3W3	19686	52.8036	15.552	F3W3	1396	1.35	106.6605	18.5 A
SA22	44.2855	4.5	F3W5	-8803	21.5751	0	F3W3	14880	39.6659	15.552	F3W6	576	0	108.7855	18.5 A
SA22	44.5355	4.5	F3W5	-5737	14.0727	0	F3W3	11759	31.5382	9.3312	F3W5	1038	1.1009	109.0355	18.5 A
SA22	45.7855	4.5	F3W3	-4568	11.1798	0	F3W3	8509	22.6624	9.3312	F3W1	1154	1.4635	110.2855	18.5 A
SA22	46.0355	4.5	F3W3	-4522	11.0683	0	F3W3	7436	19.7591	9.3312	F3W1	1216	1.6594	110.5355	18.5 A
SA22	46.5	4.5	F3W3	-4273	10.4545	0	F3W3	7044	18.7024	9.3312	F3W1	1216	1.6594	111	18.5 A
SA22	47.2855	4.5	F3W5	-4327	10.587	0	F3W3	6860	18.2053	9.3312	F3W5	755	0.81	111.7855	18.5 A
SA22	47.5355	4.5	F3W3	-5664	13.8343	0	F3W3	8305	21.9555	15.552	F3W5	755	0.81	112.0355	18.5 A
SA22	49.7022	7.5	F3W3	-2689	6.5473	0	F3W3	7211	19.0377	15.552	F3W6	931	0	114.2022	18.5 A
SA22	51.8689	4.5	F5W7	-2286	5.7031	0	F3W5	6398	16.9644	9.3312	F3W6	875	0.81	116.3689	18.5 A
SA22	52.1189	4.5	F5W7	-2239	5.5971	0	F3W5	6174	16.363	9.3312	F3W1	1357	2.1014	116.6189	18.5 A
SA22	53.3689	4.5	F3W3	-2027	4.9391	0	F3W3	3929	10.3638	9.3312	F3W1	1385	2.1888	117.8689	18.5 A
SA22	53.6189	4.5	F3W3	-2124	5.1772	0	F3W3	3864	10.1925	9.3312	F3W1	1694	3.1598	118.1189	18.5 A
SA22	54	4.5	F3W3	-2090	5.0933	0	F3W3	4115	10.8588	9.3312	F3W1	1694	3.1598	118.5	18.5 A
SA22	54.8689	4.5	F3W3	-1848	4.5018	0	F3W3	6024	15.9603	9.3312	F3W3	873	0.81	119.3689	18.5 A
SA22	55.1189	4.5	F5W2	-2341	5.8551	0	F3W3	7942	20.987	15.552	F3W3	1185	1.35	119.6189	18.5 A
SA22	57.2022	7.5	F5W2	-2151	5.3733	0	F3W3	12782	33.9811	15.552	F3W3	1532	1.35	121.7022	18.5 A
SA22	59.2855	4.5	F3W6	-6598	16.1332	0	F3W3	12998	34.5667	15.552	F3W3	1352	2.0862	123.7855	18.5 A
SA22	59.5355	4.5	F3W6	-5875	14.4147	0	F3W5	9608	25.6498	9.3312	F3W3	1352	2.0862	124.0355	18.5 A
SA22	60.7855	4.5	F3W6	-5083	12.4539	0	F3W5	10284	27.4924	9.3312	F3W6	1072	1.2053	125.2855	18.5 A
SA22	61.0355	4.5	F3W3	-5886	14.4413	0	F3W5	10759	28.7933	9.3312	F3W1	1112	1.3312	125.5355	18.5 A
SA22	61.5	4.5	F3W3	-6139	15.0693	0	F3W3	8919	23.7738	9.3312	F3W1	1112	1.3312	126	18.5 A
SA22	62.2855	4.5	F3W3	-6878	16.9043	0	F3W5	9912	26.5507	9.3312	F3W1	1144	1.4309	126.7855	18.5 A
SA22	62.5355	4.5	F5W2	-6377	15.7242	0	F3W5	25640	69.5257	15.552	F3W5	741	0	127.0355	18.5 A
SA22	65.7678	7.5	F5W7	-6507	16.3402	0	F3W5	24237	65.3986	15.552	F3W5	741	0	130.2678	18.5 A
SA22	69	4.6473	F5W2	-7248	17.914	0	F3W5	22390	61.3996	9.6366	F3W3	685	0	133.5	18.5 A
SA22	70.3413	4.6473	F5W2	-7464	18.4498	0	F3W5	20692	56.5306	9.6366	F3W3	1456	2.3406	134.8413	18.5 A
SA22	70.5913	4.6473	F5W2	-7260	17.948	0	F3W5	20280	55.3539	9.6366	F3W3	1153	1.3912	135.0913	18.5 A
SA22	73.425	7.5	F5W2	-7788	19.2098	0	F3W1	24103	65.0273	15.552	F3W3	427	0	137.925	18.5 A
SA22	76.2587	4.5	F5W2	-5862	14.4543	0	F3W1	15379	41.0225	15.552	F3W5	1330	2.0171	140.7587	18.5 A
SA22	76.5	4.5	F5W2	-4069	10.0636	0	F3W1	8475	22.5695	9.3312	F3W5	1330	2.0171	141	18.5 A
SA22	77.7587	4.5	F5W2	-3904	9.6536	0	F3W1	7867	20.9244	9.3312	F3W5	859	0.81	142.2587	18.5 A
SA22	78.0087	4.5	F5W2	-3650	9.0162	0	F3W1	7410	19.6887	9.3312	F3W5	323	0	142.5087	18.5 A
SA22	79.2587	4.5	F5W2	-3924	9.677	0	F3W1	7005	18.5982	9.3312	F3W5	404	0	143.7587	18.5 A
SA22	79.5087	4.5	F5W2	-5670	13.9716	0	F3W1	10529	28.0044	15.552	F3W5	1065	0	144.0087	18.5 A
SA22	81.6337	7.5	F5W2	-5768	14.2049	0	F3W1	10655	28.3273	15.552	F3W5	758	0	146.1337	18.5 A
SA22	83.7587	4.5	F5W2	-4980	12.2762	0	F3W1	8511	22.6022	15.552	F3W5	758	0	148.2587	18.5 A
SA22	84	4.5	F5W2	-3854	9.529	0	F3W1	5875	15.7177	9.3312	F3W5	473	0	148.5	18.5 A
SA22	85.2587	4.5	F5W2	-3655	9.0143	0	F3W1	5518	14.6044	9.3312	F3W5	410	0	149.7587	18.5 A
SA22	85.5087	4.5	F5W2	-3792	9.3309	0	F3W1	5613	14.8581	9.3312	F3W1	282	0	150.0087	18.5 A
SA22	86.7587	4.5	F5W2	-4977	12.2446	0	F3W1	7203	19.1312	9.3312	F3W5	547	0	151.2587	18.5 A
SA22	87.0087	4.5	F5W2	-6221	15.2416	0	F3W1	10287	27.2619	15.552	F3W5	547	0	151.5087	18.5 A
SA22	89.1337	7.5	F5W2	-5464	13.3827	0	F3W1	9255	24.496	15.552	F3W5	479	0	153.6337	18.5 A
SA22	91.2587	4.5	F5W2	-6242	15.3494	0	F3W1	10416	27.6099	15.552	F3W1	959	0	155.7587	18.5 A
SA22	91.5	4.5	F5W2	-3436	8.4854	0	F3W1	5220	13.8074	9.3312	F3W1	663	0	156	18.5 A
SA22	92.7587	4.5	F5W2	-7546	18.713	0	F3W1	9876	26.4322	9.3312	F3W1	3658	0	157.2587	18.5 A
SA22	93.0087	4.5	F5W2	-6849	16.9626	0	F3W1	8877	23.6853	9.3312	F3W1	3658	0	157.5087	18.5 A
SA22	94.2587	4.5	F5W2	-6680	16.4955	0	F3W1	9334	24.9024	9.3312	F3W5	260	0	158.7587	18.5 A

SA22	94.5087	4.5	F5W2	-5580	13.7494	0	F3W1	7732	20.5597	9.3312	F3W5	886	0	159.0087	18.5 A
SA22	96.7543	7.5	F5W2	-3872	9.49	0	F3W1	5285	13.9183	15.552	F3W1	464	0	161.2543	18.5 A
SA22	99	6.1484	F3W1	-2106	5.1277	12.7493	F3W1	1877	4.926	0	F3W6	200	0	163.5	18.5 A
SA22	102.1269	7.5	F3W1	-974	2.4247	15.552	F5W2	532	1.4021	0	F3W1	293	0	166.6269	18.5 A
SA22	105.2539	0	F3W1	-267	0.6855	15.552	F3W1	204	0.5748	0	F3W2	37	0	169.7539	18.5 A
SA22	105.5	0		0	0	0		0	0	0		0	0	170	18.5 A
SA23	0	0		0	0	0		0	0	0		0	0	64.5	26 A
SA23	1.5	0		0	0	0		0	0	0		0	0	66	26 A
SA23	5.25	0		0	0	0		0	0	0		0	0	69.75	26 A
SA23	9	0		0	0	0		0	0	0		0	0	73.5	26 A
SA23	12.75	0		0	0	0		0	0	0		0	0	77.25	26 A
SA23	16.5	0		0	0	0		0	0	0		0	0	81	26 A
SA23	18.1263	0	F3W3	-5392	13.2261	15.552	F3W6	1153	3.127	0	F3W6	378	0	82.6263	26 A
SA23	21.0632	7.5	F3W3	-4509	11.0483	15.552	F5W8	271	0.738	0	F3W6	378	0	85.5632	26 A
SA23	24	6.4384	F3W3	-6195	15.157	13.3507	F5W8	660	1.8047	0	F3W3	321	0	88.5	26 A
SA23	27.0632	7.5	F3W8	-5571	13.6882	15.552	F5W6	2690	7.0977	0	F3W6	1683	1.6859	91.5632	26 A
SA23	30.1263	4.5	F3W8	-6994	17.2087	15.552	F5W6	6648	17.6361	9.3312	F3W3	2257	3.4878	94.6263	26 A
SA23	30.3763	4.5	F3W8	-6915	17.0769	0	F3W6	7649	20.3345	9.3312	F3W3	698	0.81	94.8763	26 A
SA23	31.5	4.5	F5W8	-6941	17.1046	0	F3W6	8061	21.4476	9.3312	F3W3	1334	2.0284	96	26 A
SA23	31.6263	4.5	F5W8	-6961	17.153	0	F3W6	8209	21.8494	9.3312	F3W3	3216	7.9393	96.1263	26 A
SA23	31.8763	4.5	F5W8	-6969	17.1755	0	F3W6	11123	29.7906	9.3312	F3W3	3214	7.9332	96.3763	26 A
SA23	33.1263	4.5	F5W8	-7447	18.3747	0	F3W6	15221	41.1334	9.3312	F3W3	2218	4.8044	97.6263	26 A
SA23	33.3763	4.5	F5W8	-13881	34.2313	0	F3W6	28704	77.9177	15.552	F3W3	3613	7.7451	97.8763	26 A
SA23	35.1667	7.5	F5W8	-14278	35.2401	0	F3W3	48650	135.8303	15.552	F3W3	10258	0	99.6667	26 A
SA23	37.6263	4.5	F5W8	-10424	25.6379	0	F3W3	24884	67.2039	15.552	F3W3	5198	12.7239	102.1263	26 A
SA23	37.8763	4.5	F5W8	-7326	18.0205	0	F3W3	16072	43.5155	9.3312	F3W3	3154	7.7451	102.3763	26 A
SA23	39	4.5	F3W1	-6512	15.9952	0	F3W3	11004	29.4648	9.3312	F3W3	2379	5.3118	103.5	26 A
SA23	39.1263	4.5	F3W1	-6500	15.9636	0	F3W3	10750	28.7678	9.3312	F3W3	3399	8.513	103.6263	26 A
SA23	39.3763	4.5	F3W1	-6394	15.7003	0	F3W3	9363	24.9827	9.3312	F3W3	3399	8.513	103.8763	26 A
SA23	40.6263	4.5	F3W5	-5979	14.6716	0	F3W3	7155	19.0016	9.3312	F3W3	670	0	105.1263	26 A
SA23	40.8763	4.5	F3W3	-10188	25.0069	15.552	F3W3	6714	17.815	9.3312	F3W3	1625	1.5041	105.3763	26 A
SA23	43.6882	7.5	F3W3	-11546	28.3797	15.552	F5W7	4762	12.6261	0	F3W3	1296	1.35	108.1882	26 A
SA23	46.5	6.4384	F3W3	-11510	28.3491	13.3507	F5W7	4815	12.7175	0	F3W8	447	0	111	26 A
SA23	49.5632	7.5	F3W3	-11414	28.0517	15.552	F5W7	5280	13.9357	0	F3W3	721	0	114.0632	26 A
SA23	52.6263	2.8527	F3W3	-12270	30.1839	15.552	F5W7	6078	16.0982	0	F3W3	359	0	117.1263	26 A
SA23	54	2.8527	F3W3	-4003	9.8295	5.9154	F5W4	2555	6.7791	0	F3W3	813	1.1834	118.5	26 A
SA23	57.75	2.8527	F3W6	-1477	3.6008	0	F3W8	2526	6.6627	5.9154	F3W5	287	0	122.25	26 A
SA23	61.5	2.8527	F5W2	-1859	4.5369	0	F3W5	6082	16.2565	5.9154	F3W5	985	1.7229	126	26 A
SA23	65.25	2.8527	F5W2	-2498	6.1075	0	F3W5	9993	27.1257	5.9154	F3W5	719	0.8875	129.75	26 A
SA23	69	2.8527	F5W2	-3234	7.9321	0	F3W5	11396	31.1918	5.9154	F3W3	384	0	133.5	26 A
SA23	72.75	2.8527	F5W2	-2985	7.346	0	F3W5	9972	27.183	5.9154	F3W3	340	0	137.25	26 A
SA23	76.5	2.8527	F5W2	-2875	7.075	0	F3W1	7112	19.2675	5.9154	F3W5	270	0	141	26 A
SA23	80.25	2.8527	F5W2	-2263	5.5648	0	F3W1	4991	13.3775	5.9154	F3W5	95	0	144.75	26 A
SA23	84	2.8527	F5W2	-2184	5.3711	0	F3W1	3815	10.1559	5.9154	F3W1	217	0	148.5	26 A
SA23	87.75	2.8527	F5W2	-1882	4.6135	0	F3W1	3128	8.2678	5.9154	F3W6	62	0	152.25	26 A
SA23	91.5	2.8527	F3W2	-1645	4.0258	0	F3W1	2722	7.1852	5.9154	F3W1	85	0	156	26 A
SA23	95.25	2.8527	F5W2	-1233	3.0164	0	F3W1	2120	5.5861	5.9154	F3W5	54	0	159.75	26 A
SA23	99	2.8527	F5W2	-793	1.9421	0	F3W1	1384	3.6388	5.9154	F3W3	97	0	163.5	26 A
SA23	102.25	2.8527	F5W2	-332	0.8122	0	F3W1	663	1.7383	5.9154	F3W3	57	0	166.75	26 A
SA23	105.5	0		0	0	0		0	0	0		0	0	170	26 A
SA24	0	0		0	0	0		0	0	0		0	0	64.5	33.5 A
SA24	1.5	0		0	0	0		0	0	0		0	0	66	33.5 A
SA24	5.25	0		0	0	0		0	0	0		0	0	69.75	33.5 A
SA24	9	0		0	0	0		0	0	0		0	0	73.5	33.5 A
SA24	12.75	0		0	0	0		0	0	0		0	0	77.25	33.5 A
SA24	16.5	0		0	0	0		0	0	0		0	0	81	33.5 A
SA24	18.1263	0	F3W6	-3072	7.5035	15.552	F5W8	944	2.4928	0	F3W3	208	0	82.6263	33.5 A
SA24	21.0632	7.5	F3W6	-4094	10.0219	15.552	F5W8	1335	3.5196	0	F3W3	208	0	85.5632	33.5 A
SA24	24	5.5616	F3W6	-4006	9.8233	11.5325	F5W8	1293	3.4303	0	F3W8	33	0	88.5	33.5 A
SA24	24.1263	5.5616	F3W6	-3923	9.6416	11.5325	F5W8	1265	3.355	0	F3W6	271	0	88.6263	33.5 A
SA24	24.3763	5.5616	F3W6	-3603	8.8529	11.5325	F5W8	1195	3.1453	0	F3W6	712	0	88.8763	33.5 A
SA24	27.2513	7.5	F3W8	-1953	4.8204	0	F3W3	3361	8.8316	15.552	F3W6	2329	3.7122	91.7513	33.5 A
SA24	30.1263	4.5	F5W8	-3395	8.3652	0	F3W3	7337	19.4913	9.3312	F3W3	2343	3.757	94.6263	33.5 A
SA24	30.3763	4.5	F5W8	-3776	9.3217	0	F3W3	8765	23.3554	9.3312	F3W3	672	0	94.8763	33.5 A
SA24	31.5	4.5	F5W8	-4106	10.0857	0	F3W3	10416	27.8531	9.3312	F3W3	2529	5.781	96	33.5 A
SA24	31.6263	4.5	F5W8	-4614	11.348	0	F3W3	11819	31.7019	9.3312	F3W3	2529	5.781	96.1263	33.5 A
SA24	31.8763	4.5	F5W8	-5052	12.4248	0	F3W3	13478	36.2823	9.3312	F3W3	1730	3.2723	96.3763	33.5 A
SA24	33.1263	4.5	F5W8	-6174	15.2246	0	F3W3	17674	48.0258	9.3312	F3W3	2643	6.1401	97.6263	33.5 A
SA24	37.8763	4.5	F5W8	-6591	16.1915	0	F3W3	19562	53.3837	9.3312	F3W3	3152	7.7369	102.3763	33.5 A
SA24	39	4.5	F5W8	-5573	13.6648	0	F3W3	11192	29.9796	9.3312	F3W3	2013	4.1608	103.5	33.5 A
SA24	39.1263	4.5	F5W8	-5559	13.631	0	F3W3	10804	28.9172	9.3312	F3W3	5180	0	103.6263	33.5 A
SA24	39.3763	4.5	F5W8	-5185	12.705	0	F3W6	8310	22.1225	9.3312	F3W3	5180	0	103.8763	33.5 A
SA24	40.6263	4.5	F5W8	-4877	11.9429	0	F3W6	7967	21.2131	9.3312	F3W3	697	0.81	105.1263	33.5 A
SA24	40.8763	4.5	F3W3	-6379	15.5931	15.552	F3W6	6714	17.8422	9.3312	F3W3	1644	1.5635	105.3763	33.5 A
SA24	43.6882	7.5	F3W5	-6082	14.8623	15.552	F3W6	3181	8.4068	0	F3W3	3119	6.1931	108.1882	33.5 A
SA24	46.5	5.5616	F3W3	-6572	16.1082	11.5325	F5W7	2840	7.4724	0	F3W3	636	0	111	33.5 A
SA24	46.6263	5.5616	F3W3	-7126	17.4799	11.5325	F5W7	3033	7.9778	0	F3W3	1199	1.0953	111.1263	33.5 A
SA24	46.8763	5.5616	F3W3	-7864	19.3097	11.5325	F5W7	3290	8.6872	0	F3W3	1199	1.0953	111.3763	33.5 A
SA24	49.7513	7.5	F3W3	-7964	19.5247	15.552	F5W7	3222	8.4988	0	F3W3	232	0	114.2513	33.5 A

SA24	52.6263	0	F3W3	-4970	12.135	15.552	F5W7	2090	5.4889	0	F3W3	37	0	117.1263	33.5	A
SA24	54	0		0	0	0		0	0	0		0	0	118.5	33.5	A
SA24	57.75	0		0	0	0		0	0	0		0	0	122.25	33.5	A
SA24	61.5	0		0	0	0		0	0	0		0	0	126	33.5	A
SA24	65.25	0		0	0	0		0	0	0		0	0	129.75	33.5	A
SA24	69	0		0	0	0		0	0	0		0	0	133.5	33.5	A
SA24	72.75	0		0	0	0		0	0	0		0	0	137.25	33.5	A
SA24	76.5	0		0	0	0		0	0	0		0	0	141	33.5	A
SA24	80.25	0		0	0	0		0	0	0		0	0	144.75	33.5	A
SA24	84	0		0	0	0		0	0	0		0	0	148.5	33.5	A
SA24	87.75	0		0	0	0		0	0	0		0	0	152.25	33.5	A
SA24	91.5	0		0	0	0		0	0	0		0	0	156	33.5	A
SA24	95.25	0		0	0	0		0	0	0		0	0	159.75	33.5	A
SA24	99	0		0	0	0		0	0	0		0	0	163.5	33.5	A
SA24	102.25	0		0	0	0		0	0	0		0	0	166.75	33.5	A
SA24	105.5	0		0	0	0		0	0	0		0	0	170	33.5	A
SA25	0	0		0	0	0		0	0	0		0	0	64.5	41	A
SA25	1.5	0		0	0	0		0	0	0		0	0	66	41	A
SA25	5.25	0		0	0	0		0	0	0		0	0	69.75	41	A
SA25	9	0		0	0	0		0	0	0		0	0	73.5	41	A
SA25	12.75	0		0	0	0		0	0	0		0	0	77.25	41	A
SA25	16.5	0		0	0	0		0	0	0		0	0	81	41	A
SA25	18.1263	0	F3W6	-942	2.2972	9.8947	F5W8	432	1.1325	0	F3W3	114	0	82.6263	41	A
SA25	21.0632	4.7717	F3W6	-783	1.9114	9.8947	F3W6	509	1.3424	0	F3W3	114	0	85.5632	41	A
SA25	24	4.7717	F5W4	-715	1.7383	0	F3W3	1028	2.721	9.8947	F3W3	251	0	88.5	41	A
SA25	27.75	4.7717	F5W4	-2325	5.667	0	F3W3	4887	12.9531	9.8947	F3W3	898	0.8589	92.25	41	A
SA25	31.5	4.7717	F5W4	-5157	12.63	0	F3W3	14324	38.6159	9.8947	F3W3	2528	5.6496	96	41	A
SA25	39	4.7717	F5W8	-5214	12.7708	0	F3W3	13131	35.3455	9.8947	F3W3	2340	5.0578	103.5	41	A
SA25	42.75	4.7717	F3W1	-3524	8.6066	0	F3W3	5178	13.752	9.8947	F3W3	1119	1.2244	107.25	41	A
SA25	46.5	4.7717	F3W3	-3156	7.7492	9.8947	F5W7	1793	4.7073	0	F3W3	854	0.8589	111	41	A
SA25	49.5632	4.7717	F3W3	-2502	6.1128	9.8947	F5W7	1163	3.0546	0	F3W3	188	0	114.0632	41	A
SA25	52.6263	0	F3W3	-1484	3.6149	9.8947	F5W7	641	1.6814	0	F3W3	22	0	117.1263	41	A
SA25	54	0		0	0	0		0	0	0		0	0	118.5	41	A
SA25	57.75	0		0	0	0		0	0	0		0	0	122.25	41	A
SA25	61.5	0		0	0	0		0	0	0		0	0	126	41	A
SA25	65.25	0		0	0	0		0	0	0		0	0	129.75	41	A
SA25	69	0		0	0	0		0	0	0		0	0	133.5	41	A
SA25	72.75	0		0	0	0		0	0	0		0	0	137.25	41	A
SA25	76.5	0		0	0	0		0	0	0		0	0	141	41	A
SA25	80.25	0		0	0	0		0	0	0		0	0	144.75	41	A
SA25	84	0		0	0	0		0	0	0		0	0	148.5	41	A
SA25	87.75	0		0	0	0		0	0	0		0	0	152.25	41	A
SA25	91.5	0		0	0	0		0	0	0		0	0	156	41	A
SA25	95.25	0		0	0	0		0	0	0		0	0	159.75	41	A
SA25	99	0		0	0	0		0	0	0		0	0	163.5	41	A
SA25	102.25	0		0	0	0		0	0	0		0	0	166.75	41	A
SA25	105.5	0		0	0	0		0	0	0		0	0	170	41	A

TABLE: Concrete Slab Design 01 - Flexural And Shear Data

Strip	Station	ConcWidth	FTopCombo	TopMomer	FTopArea	FTopAMin	FBotCombo	BotMomer	FBotArea	FBotAMin	VCombo	VForce	VArea	GlobalX	GlobalY	Layer
Text	ft	ft	Text	kip-ft	in2	in2	Text	kip-ft	in2	in2	Text	kip	in2/ft	ft	ft	Text
SB1	0	0		0	0	0		0	0	0		0	0	58.5	-49	B
SB1	3.9565	0		0	0	0		0	0	0		0	0	58.5	-45.0435	B
SB1	7.913	0		0	0	0		0	0	0		0	0	58.5	-41.087	B
SB1	11.8696	0		0	0	0		0	0	0		0	0	58.5	-37.1304	B
SB1	15.8261	0		0	0	0		0	0	0		0	0	58.5	-33.1739	B
SB1	19.7826	0		0	0	0		0	0	0		0	0	58.5	-29.2174	B
SB1	23.7391	0		0	0	0		0	0	0		0	0	58.5	-25.2609	B
SB1	27.6957	0		0	0	0		0	0	0		0	0	58.5	-21.3043	B
SB1	31.6522	0		0	0	0		0	0	0		0	0	58.5	-17.3478	B
SB1	35.6087	0		0	0	0		0	0	0		0	0	58.5	-13.3913	B
SB1	39.5652	0		0	0	0		0	0	0		0	0	58.5	-9.4348	B
SB1	43.5217	0		0	0	0		0	0	0		0	0	58.5	-5.4783	B
SB1	47.4783	0		0	0	0		0	0	0		0	0	58.5	-1.5217	B
SB1	51.4348	0		0	0	0		0	0	0		0	0	58.5	2.4348	B
SB1	55.3913	0.0039	F5W7	-0.1559	0.000385	0	F3W5	0.3263	0.000874	0.0081	F5W1	0.01863	0	58.5	6.3913	B
SB1	59.3478	0.0039	F5W7	-0.1517	0.000377	0	F3W3	0.4367	0.0012	0.0081	F3W2	0.04494	0	58.5	10.3478	B
SB1	63.3043	0.0039	F5W7	-0.1267	0.000352	0	F3W5	0.4842	0.0013	0.0081	F3W1	0.1396	0	58.5	14.3043	B
SB1	67.2609	0.0039	F5W7	-0.1185	0.000316	0	F3W5	0.562	0.0015	0.0081	F3W3	0.01716	0	58.5	18.2609	B
SB1	71.2174	0.0039	F5W2	-0.05009	0	0	F3W1	0.4202	0.0011	0.0081	F3W5	0.06483	0	58.5	22.2174	B
SB1	75.1739	0		0	0	0		0	0	0		0	0	58.5	26.1739	B
SB1	79.1304	0		0	0	0		0	0	0		0	0	58.5	30.1304	B
SB1	83.087	0		0	0	0		0	0	0		0	0	58.5	34.087	B
SB1	87.0435	0		0	0	0		0	0	0		0	0	58.5	38.0435	B
SB1	91	0		0	0	0		0	0	0		0	0	58.5	42	B
SB2	0	0		0	0	0		0	0	0		0	0	66	-49	B
SB2	3.75	0		0	0	0		0	0	0		0	0	66	-45.25	B
SB2	7.5	0		0	0	0		0	0	0		0	0	66	-41.5	B
SB2	11.25	0		0	0	0		0	0	0		0	0	66	-37.75	B
SB2	15	0		0	0	0		0	0	0		0	0	66	-34	B
SB2	18.7277	0	F5W1	-180	0.448	0	F3W2	640	1.7194	10.9617	F3W2	119	0	66	-30.2723	B
SB2	22.5	5.2863	F5W1	-443	1.1164	0	F3W2	1138	3.0579	10.9617	F3W2	143	0	66	-26.5	B
SB2	26.25	5.2863	F5W1	-1911	4.7301	0	F3W2	2993	8.0175	10.9617	F3W7	100	0	66	-22.75	B
SB2	30	5.2863	F5W5	-2133	5.2905	0	F3W7	2984	8.0024	10.9617	F3W2	449	0	66	-19	B
SB2	33.75	5.2863	F3W3	-803	1.9878	0	F5W7	798	2.1452	10.9617	F3W2	91	0	66	-15.25	B
SB2	37.5	5.2863	F3W3	-445	1.0995	10.9617	F5W4	378	1.0133	0	F3W2	38	0	66	-11.5	B
SB2	38.2277	0	F3W3	-423	1.0466	10.9617	F5W4	378	1.0123	0	F3W2	38	0	66	-10.7723	B
SB2	41.6139	0		0	0	0		0	0	0		0	0	66	-7.3861	B
SB2	45	0		0	0	0		0	0	0		0	0	66	-4	B
SB2	48.75	0		0	0	0		0	0	0		0	0	66	-0.25	B
SB2	52.5	0		0	0	0		0	0	0		0	0	66	3.5	B
SB2	56.25	0		0	0	0		0	0	0		0	0	66	7.25	B
SB2	60	3.0592	F5W2	-89	0.2206	0	F3W1	328	0.8788	6.3437	F3W6	74	0	66	11	B
SB2	63.75	3.0592	F3W2	-547	1.3507	6.3437	F5W8	475	1.2706	0	F3W6	28	0	66	14.75	B
SB2	67.5	3.0592	F5W2	-145	0.3581	0	F3W8	338	0.9011	6.3437	F3W6	69	0	66	18.5	B
SB2	71.25	0		0	0	0		0	0	0		0	0	66	22.25	B
SB2	75	0		0	0	0		0	0	0		0	0	66	26	B
SB2	78.75	0		0	0	0		0	0	0		0	0	66	29.75	B
SB2	82.5	0		0	0	0		0	0	0		0	0	66	33.5	B
SB2	86.25	0		0	0	0		0	0	0		0	0	66	37.25	B
SB2	90	0		0	0	0		0	0	0		0	0	66	41	B
SB2	91	0		0	0	0		0	0	0		0	0	66	42	B
SB3	0	0		0	0	0		0	0	0		0	0	73.5	-49	B
SB3	3.75	0		0	0	0		0	0	0		0	0	73.5	-45.25	B
SB3	7.5	0		0	0	0		0	0	0		0	0	73.5	-41.5	B
SB3	11.25	0		0	0	0		0	0	0		0	0	73.5	-37.75	B
SB3	15	0		0	0	0		0	0	0		0	0	73.5	-34	B
SB3	18.7277	0	F3W7	-261	0.6781	0	F3W2	896	2.4242	15.552	F3W7	48	0	73.5	-30.2723	B
SB3	22.5	7.5	F3W2	-2141	5.3838	15.552	F5W1	1486	4.0886	0	F3W2	759	0	73.5	-26.5	B
SB3	24.7277	4.25	F5W1	-1714	4.296	0	F3W2	2646	7.1856	8.8128	F3W7	343	0	73.5	-24.2723	B
SB3	28.337	7.4413	F5W5	-13527	33.9168	0	F3W2	20151	55.2051	15.4328	F3W2	4920	12.1371	73.5	-20.663	B
SB3	30	7.4985	F5W5	-7275	18.2114	0	F3W7	10266	27.7481	15.5489	F3W2	4463	10.6503	73.5	-19	B
SB3	32.2277	4.1492	F5W5	-1275	3.2046	0	F3W7	1905	5.1519	8.6038	F3W2	262	0	73.5	-16.7723	B
SB3	34.8639	7.5	F3W2	-2302	5.8085	15.552	F5W1	1001	2.7059	0	F3W2	614	0	73.5	-14.1361	B
SB3	37.5	7.5	F3W3	-1340	3.3181	15.552	F5W4	736	2.0188	0	F3W2	87	0	73.5	-11.5	B
SB3	38.2277	0	F3W3	-1337	3.3125	15.552	F5W4	716	1.9583	0	F3W2	88	0	73.5	-10.7723	B
SB3	41.6139	0		0	0	0		0	0	0		0	0	73.5	-7.3861	B
SB3	45	0		0	0	0		0	0	0		0	0	73.5	-4	B
SB3	48.75	0		0	0	0		0	0	0		0	0	73.5	-0.25	B
SB3	52.5	0		0	0	0		0	0	0		0	0	73.5	3.5	B
SB3	55.2851	0		0	0	0		0	0	0		0	0	73.5	6.2851	B
SB3	58.0703	0	F3W5	-489	1.2089	0	F3W6	1364	3.6474	15.552	F3W6	179	0	73.5	9.0703	B
SB3	60	7.5	F3W6	-751	1.8939	0	F3W6	2234	6.0062	15.552	F3W6	659	0	73.5	11	B
SB3	62.5703	4.25	F3W6	-7414	18.5266	0	F3W6	9050	24.6482	8.8128	F3W6	2522	4.4526	73.5	13.5703	B
SB3	64.0703	4.25	F5W8	-591	1.4708	0	F3W6	7345	19.8999	8.8128	F3W2	73	0	73.5	15.0703	B
SB3	65.5703	4.25	F3W6	-7836	19.5651	15.552	F3W6	9082	24.6929	8.8128	F3W6	2593	4.6796	73.5	16.5703	B
SB3	67.5	7.5	F3W6	-751	1.8818	0	F3W6	2514	6.7417	15.552	F3W6	753	0	73.5	18.5	B

SB3	70.0703	0	F3W6	-457	1.1332	0	F3W6	1240	3.3108	15.552	F3W6	223	0	73.5	21.0703	B
SB3	72.5351	0		0	0	0		0	0	0		0	0	73.5	23.5351	B
SB3	75	0		0	0	0		0	0	0		0	0	73.5	26	B
SB3	78.75	0		0	0	0		0	0	0		0	0	73.5	29.75	B
SB3	82.5	0		0	0	0		0	0	0		0	0	73.5	33.5	B
SB3	86.25	0		0	0	0		0	0	0		0	0	73.5	37.25	B
SB3	90	0		0	0	0		0	0	0		0	0	73.5	41	B
SB3	91	0		0	0	0		0	0	0		0	0	73.5	42	B
SB4	0	0		0	0	0		0	0	0		0	0	81	-49	B
SB4	3.75	0		0	0	0		0	0	0		0	0	81	-45.25	B
SB4	7.5	0		0	0	0		0	0	0		0	0	81	-41.5	B
SB4	11.25	0		0	0	0		0	0	0		0	0	81	-37.75	B
SB4	15	0		0	0	0		0	0	0		0	0	81	-34	B
SB4	18.7277	0	F3W3	-447	1.1087	0	F3W4	582	1.5995	15.552	F3W8	99	0	81	-30.2723	B
SB4	22.5	7.5	F3W7	-1570	3.9864	15.552	F3W7	1002	2.7871	0	F3W7	1347	1.35	81	-26.5	B
SB4	24.7277	4.25	F5W5	-1305	3.294	0	F3W7	2437	6.6578	8.8128	F3W7	389	0	81	-24.2723	B
SB4	28.337	7.5	F5W5	-9422	23.5591	0	F3W7	20057	54.8855	15.552	F3W7	5583	14.2293	81	-20.663	B
SB4	30	7.5	F5W5	-5223	13.134	0	F3W7	11344	30.7116	15.552	F3W2	5328	13.4131	81	-19	B
SB4	32.2277	4.25	F3W3	-2677	6.6752	8.8128	F5W7	2172	5.891	0	F3W7	399	0	81	-16.7723	B
SB4	34.8639	7.5	F3W3	-3570	8.8773	15.552	F5W4	975	2.834	0	F3W2	912	0	81	-14.1361	B
SB4	37.5	7.5	F3W3	-2858	7.0871	15.552	F3W3	1660	4.4436	0	F3W8	64	0	81	-11.5	B
SB4	38.2277	0	F3W3	-2840	7.0389	15.552	F3W3	1628	4.3557	0	F3W8	64	0	81	-10.7723	B
SB4	41.6139	0		0	0	0		0	0	0		0	0	81	-7.3861	B
SB4	45	0		0	0	0		0	0	0		0	0	81	-4	B
SB4	48.75	0		0	0	0		0	0	0		0	0	81	-0.25	B
SB4	52.5	0		0	0	0		0	0	0		0	0	81	3.5	B
SB4	55.2851	0		0	0	0		0	0	0		0	0	81	6.2851	B
SB4	58.0703	0	F3W8	-1553	3.8434	0	F3W6	2768	7.4031	15.552	F3W6	116	0	81	9.0703	B
SB4	60	7.5	F3W3	-662	1.6824	0	F3W6	3798	10.2149	15.552	F3W6	514	0	81	11	B
SB4	62.5703	4.25	F3W6	-2291	5.7727	0	F3W6	6105	16.4867	15.552	F3W6	2238	3.5475	81	13.5703	B
SB4	64.0703	4.25	F5W6	-751	1.9364	0	F3W6	4349	11.8084	8.8128	F3W6	203	0	81	15.0703	B
SB4	65.5703	4.25	F3W6	-3273	8.2857	0	F3W6	5873	15.9437	15.552	F3W6	2054	2.9602	81	16.5703	B
SB4	67.5	7.5	F5W3	-315	0.8814	0	F3W4	3677	10.1411	15.552	F3W3	431	0	81	18.5	B
SB4	70.0703	2.1237	F3W8	-962	2.4905	0	F3W4	4612	12.6818	15.552	F3W6	425	0.3823	81	21.0703	B
SB4	72.5351	2.1237	F3W3	-2509	6.3563	4.4037	F3W4	1897	5.1321	0	F3W6	663	1.0993	81	23.5351	B
SB4	75	2.1237	F3W3	-3513	8.8925	4.4037	F3W4	1894	5.1108	0	F3W6	663	1.0993	81	26	B
SB4	78.75	2.1237	F3W3	-4649	11.7454	4.4037	F5W8	2012	5.4024	0	F3W6	208	0	81	29.75	B
SB4	82.5	2.1237	F3W6	-4521	11.3678	4.4037	F5W8	1938	5.2032	0	F3W3	79	0	81	33.5	B
SB4	86.25	2.1237	F3W6	-1679	4.1748	4.4037	F5W8	808	2.1573	0	F3W3	177	0	81	37.25	B
SB4	90	2.1237	F3W6	-551	1.3649	4.4037	F5W8	310	0.8252	0	F3W3	47	0	81	41	B
SB4	91	2.1237	F3W6	-486	1.2035	4.4037	F5W8	291	0.7743	0	F3W3	47	0	81	42	B
SB5	0	0		0	0	0		0	0	0		0	0	88.5	-49	B
SB5	3.75	0		0	0	0		0	0	0		0	0	88.5	-45.25	B
SB5	7.5	0		0	0	0		0	0	0		0	0	88.5	-41.5	B
SB5	11.25	0		0	0	0		0	0	0		0	0	88.5	-37.75	B
SB5	15	0		0	0	0		0	0	0		0	0	88.5	-34	B
SB5	18.7277	0	F5W3	-2278	5.6373	0	F3W7	4539	12.2057	15.552	F3W5	173	0	88.5	-30.2723	B
SB5	22.5	7.5	F3W3	-2623	6.5283	0	F3W7	4987	13.3998	15.552	F3W7	1742	1.9617	88.5	-26.5	B
SB5	24.7277	4.25	F3W3	-3025	7.558	0	F3W7	5086	13.6882	8.8128	F3W7	403	0	88.5	-24.2723	B
SB5	28.337	7.5	F5W5	-7270	18.0696	0	F3W7	21363	58.4526	15.552	F3W7	7442	0	88.5	-20.663	B
SB5	30	7.5	F5W3	-6725	16.7195	0	F3W7	12684	34.3043	15.552	F3W7	5611	14.3159	88.5	-19	B
SB5	32.2277	4.25	F3W3	-4449	11.0668	0	F5W7	4957	13.3392	8.8128	F3W7	431	0	88.5	-16.7723	B
SB5	34.8639	7.5	F3W3	-6375	15.8306	0	F5W7	5982	16.0389	15.552	F3W7	1222	1.35	88.5	-14.1361	B
SB5	37.5	7.5	F3W3	-6850	17.0194	0	F5W7	6695	17.9668	15.552	F3W6	43	0	88.5	-11.5	B
SB5	38.2277	2.6573	F3W3	-7026	17.4608	0	F5W7	6966	18.6997	15.552	F3W6	43	0	88.5	-10.7723	B
SB5	41.6139	2.6573	F5W3	-2900	7.2167	0	F3W7	5146	13.9509	5.5103	F3W6	148	0	88.5	-7.3861	B
SB5	45	2.6573	F5W3	-1950	4.8382	0	F3W7	4810	13.0232	5.5103	F3W8	71	0	88.5	-4	B
SB5	48.75	2.6573	F5W3	-1282	3.1743	0	F3W4	3919	10.5761	5.5103	F3W8	80	0	88.5	-0.25	B
SB5	52.5	2.6573	F3W7	-1941	4.815	0	F3W4	4213	11.382	5.5103	F3W8	253	0	88.5	3.5	B
SB5	55.2851	2.6573	F5W7	-1769	4.3866	0	F3W8	5435	14.7518	5.5103	F3W8	279	0	88.5	6.2851	B
SB5	58.0703	2.6573	F3W3	-1770	4.7412	0	F1	7183	19.2886	15.552	F3W8	108	0	88.5	9.0703	B
SB5	60	7.5	F3W3	-297	1.0912	0	F3W3	5834	16.0216	15.552	F3W4	585	0	88.5	11	B
SB5	63.75	7.5	F5W6	-268	0.7606	0	F3W8	5566	14.9146	15.552	F3W6	651	0	88.5	14.75	B
SB5	67.5	7.5	F5W3	-1227	3.3404	0	F3W4	6767	18.1612	15.552	F3W3	1427	1.35	88.5	18.5	B
SB5	71.25	7.5	F5W3	-4902	12.4005	0	F3W4	7326	19.6762	15.552	F3W6	1119	0	88.5	22.25	B
SB5	75	7.5	F3W3	-10457	26.333	15.552	F5W8	6963	18.6936	0	F3W6	2096	3.0925	88.5	26	B
SB5	77.6884	4.25	F3W3	-12099	30.5143	15.552	F5W8	6681	17.9298	0	F3W6	1653	1.679	88.5	28.6884	B
SB5	79.1884	4.25	F3W6	-11708	29.6371	8.8128	F5W8	5357	14.4264	0	F3W6	367	0	88.5	30.1884	B
SB5	80.6884	4.25	F3W3	-14305	35.9061	15.552	F5W8	5930	15.9131	0	F3W6	1454	1.35	88.5	31.6884	B
SB5	82.5	7.5	F3W3	-10937	27.3753	15.552	F5W8	4972	13.3152	0	F3W6	1454	1.35	88.5	33.5	B
SB5	86.25	7.5	F3W6	-3923	9.7633	15.552	F5W8	2458	6.5856	0	F3W3	789	0	88.5	37.25	B
SB5	90	7.5	F3W6	-1381	3.4303	0	F3W8	1329	3.5585	15.552	F3W3	336	0	88.5	41	B
SB5	91	7.5	F5W6	-1110	2.7614	0	F3W8	1279	3.4202	15.552	F3W3	336	0	88.5	42	B
SB6	0	6.4599	F3W4	-206	0.5271	13.3952	F3W7	140	0.3946	0	F3W7	68	0	96	-49	B
SB6	2.9702	6.4599	F3W7	-742	1.9079	13.3952	F3W7	636	1.7758	0	F3W7	511	0	96	-46.0298	B
SB6	5.9404	4.5	F3W7	-733	1.8103	0	F3W7	2179	5.8259	9.3312	F3W7	1400	2.3099	96	-43.0596	B
SB6	7.5	6.4599	F5W3	-2796	6.9852	0	F3W7	8721	23.507	13.3952	F3W7	1973	3.1986	96	-41.5	B
SB6	10.4702	6.3531	F5W3	-5085	12.7747	0	F3W7	14997	40.8449	13.1739	F3W7	1673	2.2909	96	-38.5298	B
SB6	13.4404	4.6008	F5W3	-4232	10.5754	0	F3W7	6340	17.0952	9.5402	F3W7	722	0.8281	96	-35.5596	B

SB6	15	6.4599	F3W3	-6157	15.3579	0	F3W7	6704	18.0176	13.3952	F3W7	1184	1.1628	96	-34	B
SB6	18.75	7.5	F5W3	-6287	15.6653	0	F3W7	13392	36.2543	15.552	F3W3	662	0	96	-30.25	B
SB6	22.5	7.5	F3W3	-7131	17.7535	0	F3W7	11917	32.1972	15.552	F3W7	855	0	96	-26.5	B
SB6	24.7277	5.0363	F3W3	-7271	18.15	0	F3W7	18164	50.0896	10.4433	F3W7	1224	1.4916	96	-24.2723	B
SB6	27.3639	7.5	F5W3	-12144	30.3898	0	F3W7	33587	93.4794	15.552	F3W7	2405	4.0787	96	-21.6361	B
SB6	30	7.4976	F5W3	-13169	33.132	0	F3W7	36142	100.962	15.547	F3W7	903	0	96	-19	B
SB6	32.2277	5.0363	F5W3	-6130	15.3734	0	F3W7	15229	41.742	10.4433	F3W7	138	0	96	-16.7723	B
SB6	34.8639	7.5	F5W3	-6789	16.9892	0	F3W7	11154	30.1073	15.552	F3W2	571	0	96	-14.1361	B
SB6	37.5	7.5	F5W3	-6031	15.0918	0	F3W7	10792	29.115	15.552	F3W7	1886	2.4238	96	-11.5	B
SB6	37.5962	4.25	F5W3	-6039	15.1125	0	F3W7	10633	28.6816	15.552	F3W7	1886	2.4238	96	-11.4038	B
SB6	39.0962	4.25	F5W3	-4368	10.9507	0	F3W7	4731	12.7229	8.8128	F3W7	484	0	96	-9.9038	B
SB6	40.5962	4.25	F5W3	-5842	14.586	0	F3W7	10223	27.561	15.552	F3W7	1483	1.35	96	-8.4038	B
SB6	42.7981	7.5	F5W3	-6366	15.9606	0	F3W7	15182	41.1969	15.552	F3W7	949	0	96	-6.2019	B
SB6	45	7.5	F5W3	-5568	13.9657	0	F3W7	13672	37.0247	15.552	F3W7	950	0	96	-4	B
SB6	47.9517	4.25	F5W3	-4960	12.4575	0	F3W7	10943	29.5285	15.552	F3W2	1514	1.35	96	-1.0483	B
SB6	49.4517	4.25	F5W3	-2604	6.6462	0	F3W4	7594	20.5585	8.8128	F3W7	244	0	96	0.4517	B
SB6	50.9517	4.25	F5W7	-4089	10.1287	0	F3W4	8421	22.6499	15.552	F3W2	1678	1.7593	96	1.9517	B
SB6	52.5	7.5	F5W7	-2381	5.8869	0	F3W4	10135	27.3201	15.552	F3W3	1303	1.35	96	3.5	B
SB6	55.4517	4.25	F5W7	-4286	10.6196	0	F3W3	9773	26.5925	8.8128	F3W6	1974	2.7046	96	6.4517	B
SB6	56.9517	4.25	F5W7	-3309	8.2133	0	F3W3	8532	23.1492	8.8128	F3W6	488	0	96	7.9517	B
SB6	58.4517	4.25	F5W4	-2892	7.1536	0	F3W3	22589	62.0298	15.552	F3W6	2376	3.9878	96	9.4517	B
SB6	60	7.5	F5W4	-1828	4.5181	0	F3W3	25512	70.3863	15.552	F3W6	1404	1.35	96	11	B
SB6	62.9517	4.25	F5W8	-2228	5.5085	0	F3W6	19318	53.8058	8.8128	F3W6	3165	6.5067	96	13.9517	B
SB6	64.4517	4.25	F5W1	-697	1.7209	0	F3W3	17640	49.0746	8.8128	F3W6	2972	7.4495	96	15.4517	B
SB6	65.9517	4.25	F3W6	-3824	9.4755	0	F3W3	17159	46.9328	13.7961	F3W6	2030	4.4421	96	16.9517	B
SB6	67.5	7.5	F3W3	-9541	23.7749	0	F3W5	9796	26.3938	15.552	F3W3	521	0	96	18.5	B
SB6	70.7192	7.5	F3W3	-12047	30.1033	15.552	F3W8	9938	26.7834	0	F3W3	819	0	96	21.7192	B
SB6	73.9384	4.25	F3W3	-9566	23.9054	15.552	F3W8	6388	17.1378	0	F3W3	2154	3.2793	96	24.9384	B
SB6	75	4.25	F3W3	-6347	15.8882	8.8128	F3W8	3430	9.1973	0	F3W3	572	0	96	26	B
SB6	75.4384	4.25	F3W3	-6413	16.0555	8.8128	F3W8	3471	9.3078	0	F3W3	586	0	96	26.4384	B
SB6	76.9384	4.25	F3W3	-7187	17.9069	15.552	F3W8	4304	11.5162	0	F3W6	868	0	96	27.9384	B
SB6	79.1884	7.5	F3W3	-3666	9.1448	15.552	F3W5	3390	9.0586	0	F3W3	1196	1.35	96	30.1884	B
SB6	81.4384	4.25	F3W3	-6096	15.2654	15.552	F5W4	2769	7.3943	0	F3W3	1191	1.35	96	32.4384	B
SB6	82.5	4.1823	F3W3	-5354	13.4006	8.7039	F5W4	2187	5.8491	0	F3W3	204	0	96	33.5	B
SB6	82.9384	4.2439	F3W3	-5284	13.2235	8.8001	F5W4	2195	5.8705	0	F3W3	794	0.765	96	33.9384	B
SB6	84.4384	4.25	F3W3	-4091	10.1334	15.552	F5W4	1850	5.098	0	F3W3	3374	7.1746	96	35.4384	B
SB6	87.2192	7.5	F5W4	-1208	3.046	0	F3W3	4374	11.7033	15.552	F3W3	2754	5.195	96	38.2192	B
SB6	90	7.5	F3W8	-1385	3.4952	0	F3W3	4322	11.5874	15.552	F3W3	1102	0	96	41	B
SB6	91	7.5	F5W4	-1731	4.2903	0	F3W3	5457	14.6462	15.552	F3W3	1102	0	96	42	B
SB7	0	5.5401	F3W7	-192	0.4877	11.488	F5W3	105	0.2884	0	F3W7	47	0	103.5	-49	B
SB7	3.75	5.5401	F3W7	-763	1.9257	0	F3W7	995	2.6975	11.488	F3W7	448	0	103.5	-45.25	B
SB7	7.5	5.5401	F5W3	-3149	7.9017	0	F3W7	10374	28.1079	11.488	F3W7	1715	2.8186	103.5	-41.5	B
SB7	11.25	5.5401	F5W3	-4629	11.7495	0	F3W7	13434	36.6088	11.488	F3W7	1535	2.2434	103.5	-37.75	B
SB7	15	5.5401	F3W3	-5607	14.0303	0	F3W7	6917	18.6281	11.488	F3W3	375	0	103.5	-34	B
SB7	18.75	7.5	F3W3	-9798	24.5363	0	F5W7	12347	33.3797	15.552	F3W7	909	0	103.5	-30.25	B
SB7	22.5	7.5	F5W3	-9235	23.1686	0	F3W7	13182	35.675	15.552	F3W4	454	0	103.5	-26.5	B
SB7	24.8607	5.4793	F5W3	-10475	26.3925	0	F3W7	25895	72.2637	11.3618	F3W7	5306	0	103.5	-24.1393	B
SB7	28.337	7.5	F5W3	-17384	43.8827	0	F3W7	42924	121.1103	15.552	F3W7	8732	0	103.5	-20.663	B
SB7	30	7.5	F3W3	-9324	23.3573	0	F3W7	14329	38.9997	15.552	F3W7	4822	11.7986	103.5	-19	B
SB7	30.8607	4.25	F5W3	-7420	18.6715	0	F3W7	15692	42.7677	15.552	F3W7	2734	5.1309	103.5	-18.1393	B
SB7	32.3607	4.25	F5W3	-4825	12.1284	0	F3W7	7260	19.6909	8.8128	F3W4	2054	4.5192	103.5	-16.6393	B
SB7	33.8607	4.25	F5W3	-4460	11.2309	0	F3W7	8614	23.229	15.552	F3W7	1205	1.35	103.5	-15.1393	B
SB7	37.5	7.5	F5W3	-4664	11.7348	0	F3W7	10332	27.8582	15.552	F3W3	185	0	103.5	-11.5	B
SB7	41.25	7.5	F5W3	-4051	10.2184	0	F3W7	10489	28.2883	15.552	F3W6	284	0	103.5	-7.75	B
SB7	45	7.5	F5W3	-2458	6.334	0	F3W7	13566	36.7332	15.552	F3W3	966	0	103.5	-4	B
SB7	48.1033	1.4167	F3W8	-4067	10.0736	0	F3W7	11160	30.1233	15.552	F3W4	164	0	103.5	-0.8967	B
SB7	50.3017	1.4167	F5W3	-1161	2.9791	0	F3W6	3386	9.2206	2.9377	F3W7	174	0	103.5	1.3017	B
SB7	52.5	1.4167	F5W3	-679	1.7277	0	F3W3	2673	7.2445	2.9377	F3W3	338	0.3977	103.5	3.5	B
SB7	56.25	1.4167	F5W7	-849	2.103	0	F3W3	3082	8.3765	2.9377	F3W3	181	0	103.5	7.25	B
SB7	60	1.4167	F5W7	-1109	2.7529	0	F3W6	6889	19.254	2.9377	F3W3	329	0.3718	103.5	11	B
SB7	62.7133	1.4167	F3W3	-19625	49.4635	0	F3W3	33337	92.7513	15.552	F3W3	157	0	103.5	13.7133	B
SB7	63.4625	7.5	F3W3	-19131	48.1897	0	F3W3	44163	124.8367	15.552	F3W6	6375	0	103.5	14.4625	B
SB7	66.6027	4.25	F3W3	-16682	41.904	15.552	F3W5	13510	36.5801	0	F3W3	6157	0	103.5	17.6027	B
SB7	67.5	4.25	F3W3	-16117	41.0411	8.8128	F3W8	5535	14.9143	0	F3W3	3205	0	103.5	18.5	B
SB7	68.1027	4.25	F3W3	-17717	45.2652	8.8128	F3W8	5785	15.5945	0	F3W3	3205	0	103.5	19.1027	B
SB7	69.6027	4.25	F3W3	-28975	73.9821	15.552	F5W4	7869	21.1501	0	F3W3	1562	2.9477	103.5	20.6027	B
SB7	71.7706	7.5	F3W3	-25365	64.487	15.552	F3W3	10673	28.9223	0	F3W3	1372	1.35	103.5	22.7706	B
SB7	73.9384	4.25	F3W3	-16171	40.7508	15.552	F5W4	5028	13.466	0	F3W3	1372	1.35	103.5	24.9384	B
SB7	75	4.25	F3W3	-14345	36.4857	8.8128	F5W4	4483	12.0494	0	F3W3	288	0	103.5	26	B
SB7	75.4384	4.25	F3W3	-17524	44.8386	8.8128	F5W4	5294	14.2554	0	F3W3	349	0	103.5	26.4384	B
SB7	76.9384	4.25	F3W3	-13387	33.5674	15.552	F5W4	4950	13.2695	0	F3W3	772	0	103.5	27.9384	B
SB7	79.1884	7.5	F3W3	-10405	26.0385	15.552	F5W4	4475	11.9778	0	F3W3	1024	0	103.5	30.1884	B
SB7	81.4384	4.25	F3W3	-10307	25.8121	15.552	F5W4	4115	11.0062	0	F3W3	1024	0	103.5	32.4384	B
SB7	82.5	4.25	F3W3	-4488	11.2143	8.8128	F5W4	2171	5.8103	0	F3W3	478	0	103.5	33.5	B
SB7	82.9384	4.25	F3W3	-9932	25.0044	8.8128	F5W4	3872	10.3917	0	F3W3	607	0	103.5	33.9384	B
SB7	84.4384	4.25	F3W3	-8483	21.3037	8.8128	F3W3	7673	20.6338	15.552	F3W3	2847	5.4904	103.5	35.4384	B
SB7	87.2192	7.5	F3W3	-2093	5.2108	0	F3W3	4787	12.8563	15.552	F3W3	2468	4.281	103.5	38.2192	B
SB7	90	7.5	F5W4	-1841	4.6069	0	F3W3	4780	12.8711	15.552	F3W3	969	0	103.5	41	B
SB7	91	7.5	F5W4	-2336	5.8363	0	F3W3	5851	15.7803	15.552	F3W3	969	0	103.5	42	B

SB8	0	0		0	0	0		0	0	0		0	0	111	-49	B
SB8	3.75	0		0	0	0		0	0	0		0	0	111	-45.25	B
SB8	7.5	0		0	0	0		0	0	0		0	0	111	-41.5	B
SB8	11.25	0		0	0	0		0	0	0		0	0	111	-37.75	B
SB8	15	0		0	0	0		0	0	0		0	0	111	-34	B
SB8	18.7277	0	F3W5	-5961	14.8147	15.552	F3W8	4713	12.6375	0	F3W7	190	0	111	-30.2723	B
SB8	22.5	7.5	F3W3	-6968	17.4363	0	F3W4	7640	20.5284	15.552	F3W6	205	0	111	-26.5	B
SB8	25.4185	6.2707	F5W3	-7026	17.679	0	F3W4	11938	32.3541	13.003	F3W4	925	0	111	-23.5815	B
SB8	28.337	7.5	F5W3	-10438	26.2327	0	F3W7	25493	70.1479	15.552	F3W7	6108	0	111	-20.663	B
SB8	30	7.5	F5W3	-8534	21.5216	0	F3W4	14391	39.0096	15.552	F3W4	5706	0	111	-19	B
SB8	30.8607	4.25	F5W3	-8447	21.3332	0	F3W4	12696	34.3375	15.552	F3W4	2142	3.2399	111	-18.1393	B
SB8	32.3607	4.25	F3W3	-5427	13.669	8.8128	F5W4	3762	10.1109	0	F3W4	2824	6.9787	111	-16.6393	B
SB8	33.8607	4.25	F3W3	-6399	16.0674	15.552	F5W7	3078	8.351	0	F3W7	1259	1.35	111	-15.1393	B
SB8	37.5	7.5	F3W5	-4861	12.05	0	F3W4	6012	16.1699	15.552	F3W6	589	0	111	-11.5	B
SB8	41.25	7.5	F3W5	-3260	8.0681	0	F3W4	7040	18.9561	15.552	F3W3	426	0	111	-7.75	B
SB8	45	7.5	F3W1	-2971	7.3528	0	F3W4	6002	16.1314	15.552	F3W3	254	0	111	-4	B
SB8	48.1033	0	F3W1	-3847	9.5429	0	F3W8	4909	13.1617	15.552	F3W3	74	0	111	-0.8967	B
SB8	50.3017	0		0	0	0		0	0	0		0	0	111	1.3017	B
SB8	52.5	0		0	0	0		0	0	0		0	0	111	3.5	B
SB8	56.25	0		0	0	0		0	0	0		0	0	111	7.25	B
SB8	60	0		0	0	0		0	0	0		0	0	111	11	B
SB8	62.7133	0	F3W5	-6789	16.8989	0	F3W3	11301	30.5482	15.552	F3W6	233	0	111	13.7133	B
SB8	63.4633	7.5	F3W5	-6750	16.7676	0	F3W3	14975	40.7588	15.552	F3W3	8886	0	111	14.4633	B
SB8	66.6027	4.25	F3W3	-21895	55.5297	15.552	F5W4	4537	12.2353	0	F3W3	8024	0	111	17.6027	B
SB8	67.5	4.25	F3W3	-16591	42.507	8.8128	F5W4	3107	8.3811	0	F3W3	4669	0	111	18.5	B
SB8	68.1027	4.25	F3W3	-19178	49.3822	8.8128	F5W4	3383	9.1282	0	F3W3	4669	0	111	19.1027	B
SB8	69.6027	4.25	F3W3	-27266	69.7341	15.552	F5W4	6723	18.0642	0	F3W3	2815	6.9503	111	20.6027	B
SB8	72.3014	7.5	F3W3	-26159	66.6503	15.552	F5W4	7860	21.1261	0	F3W3	996	0	111	23.3014	B
SB8	75	7.5	F3W3	-28269	72.2179	15.552	F5W4	8885	23.9107	0	F3W3	996	0	111	26	B
SB8	77.6884	4.25	F3W3	-26782	68.1622	15.552	F5W4	8825	23.7487	0	F3W3	1211	1.35	111	28.6884	B
SB8	79.1884	4.25	F3W3	-19530	50.1599	8.8128	F5W4	6703	18.1093	0	F3W3	322	0	111	30.1884	B
SB8	80.6884	4.25	F3W3	-21603	54.6208	15.552	F5W4	8066	21.7586	0	F3W3	1475	1.35	111	31.6884	B
SB8	82.5	7.5	F3W3	-18136	45.6944	15.552	F5W4	6975	18.775	0	F3W3	1475	1.35	111	33.5	B
SB8	86.25	7.5	F3W3	-9348	23.3356	15.552	F5W4	3950	10.5916	0	F3W3	910	0	111	37.25	B
SB8	90	7.5	F3W3	-4534	11.2623	15.552	F5W4	2079	5.5631	0	F3W3	392	0	111	41	B
SB8	91	7.5	F3W3	-3972	9.8656	15.552	F3W3	2113	5.6676	0	F3W3	392	0	111	42	B
SB9	0	0		0	0	0		0	0	0		0	0	118.5	-49	B
SB9	3.75	1.6573	F3W2	-352	0.8707	3.4366	F5W1	254	0.678	0	F3W4	11	0	118.5	-45.25	B
SB9	7.5	1.6573	F3W2	-728	1.8105	3.4366	F5W1	515	1.3751	0	F3W4	31	0	118.5	-41.5	B
SB9	11.25	1.6573	F3W2	-1154	2.8718	3.4366	F5W8	815	2.1798	0	F3W7	60	0	118.5	-37.75	B
SB9	15	1.6573	F3W6	-1470	3.6505	0	F3W7	1513	4.061	3.4366	F3W4	138	0	118.5	-34	B
SB9	18.7277	1.6573	F5W3	-5028	12.8004	0	F3W4	9337	25.1424	15.552	F3W4	337	0.2983	118.5	-30.2723	B
SB9	22.5	7.5	F3W5	-5055	12.5337	0	F3W4	7527	20.2209	15.552	F3W4	1196	1.35	118.5	-26.5	B
SB9	23.3607	4.25	F3W5	-5591	13.8769	0	F3W4	6937	18.7505	8.8128	F3W4	1196	1.35	118.5	-25.6393	B
SB9	24.8607	4.25	F5W3	-4762	12.0285	0	F3W4	8327	22.5821	8.8128	F3W4	4760	0	118.5	-24.1393	B
SB9	26.3607	4.25	F5W3	-9729	24.4779	0	F3W4	23154	63.5082	15.552	F3W4	2042	2.9206	118.5	-22.6393	B
SB9	28.337	7.5	F5W3	-10360	25.9828	0	F3W4	28638	79.1473	15.552	F3W4	5869	0	118.5	-20.663	B
SB9	30	7.5	F5W3	-8451	21.2621	0	F3W4	17947	48.8804	15.552	F3W4	4930	12.1419	118.5	-19	B
SB9	30.8306	4.25	F5W3	-8376	21.0827	0	F3W4	14251	38.6236	15.552	F3W4	1202	1.35	118.5	-18.1694	B
SB9	32.3306	4.25	F3W3	-5679	14.2354	8.8128	F5W4	3272	8.771	0	F3W4	3575	0	118.5	-16.6694	B
SB9	33.8306	4.25	F3W3	-6801	17.0089	15.552	F5W4	2695	7.214	0	F3W4	2978	5.9092	118.5	-15.1694	B
SB9	37.5	7.5	F5W3	-3817	9.5638	0	F3W8	4742	12.6951	15.552	F3W8	892	0	118.5	-11.5	B
SB9	41.25	7.5	F5W6	-2443	6.1107	0	F3W8	5666	15.2106	15.552	F3W5	550	0	118.5	-7.75	B
SB9	45	7.5	F5W6	-1789	4.4918	0	F3W8	4771	12.8181	15.552	F3W3	327	0	118.5	-4	B
SB9	48.1033	0	F5W6	-1906	4.7275	0	F3W1	3278	8.7792	15.552	F3W3	108	0	118.5	-0.8967	B
SB9	50.3017	0		0	0	0		0	0	0		0	0	118.5	1.3017	B
SB9	52.5	0		0	0	0		0	0	0		0	0	118.5	3.5	B
SB9	56.25	0		0	0	0		0	0	0		0	0	118.5	7.25	B
SB9	60	0		0	0	0		0	0	0		0	0	118.5	11	B
SB9	62.7133	0	F3W7	-2833	7.0213	0	F3W3	6379	17.1622	15.552	F3W3	227	0	118.5	13.7133	B
SB9	63.4633	7.5	F5W7	-3457	8.6354	0	F3W3	10472	28.3438	15.552	F3W3	9062	0	118.5	14.4633	B
SB9	66.6027	4.25	F3W3	-14943	37.5932	15.552	F5W7	2943	7.9628	0	F3W3	7740	0	118.5	17.6027	B
SB9	67.5	4.25	F3W3	-12104	30.7151	8.8128	F5W4	1998	5.4601	0	F3W3	4369	0	118.5	18.5	B
SB9	68.1027	4.25	F3W3	-14268	36.3635	8.8128	F5W4	2334	6.3651	0	F3W3	4369	0	118.5	19.1027	B
SB9	69.6027	4.25	F3W3	-13525	34.3554	8.8128	F5W4	4114	11.1249	0	F3W3	2469	5.8456	118.5	20.6027	B
SB9	71.8527	7.5	F3W3	-12260	30.8115	15.552	F5W4	4872	13.0877	0	F3W3	516	0	118.5	22.8527	B
SB9	74.1027	2.3763	F3W3	-13839	34.7092	15.552	F5W4	5239	14.0323	0	F3W3	417	0.4277	118.5	25.1027	B
SB9	75	2.3763	F3W3	-11201	28.8099	4.9275	F5W4	4147	11.2216	0	F3W3	417	0.4277	118.5	26	B
SB9	78.75	2.3763	F3W3	-10099	25.8521	4.9275	F5W4	3557	9.6006	0	F3W3	164	0	118.5	29.75	B
SB9	82.5	2.3763	F3W3	-8675	22.0864	4.9275	F5W4	3201	8.6273	0	F3W3	207	0	118.5	33.5	B
SB9	86.25	2.3763	F3W3	-3613	9.0385	4.9275	F5W4	1432	3.8332	0	F3W3	264	0	118.5	37.25	B
SB9	90	2.3763	F3W3	-1337	3.3168	4.9275	F5W4	565	1.5074	0	F3W3	65	0	118.5	41	B
SB9	91	2.3763	F3W3	-1202	2.981	4.9275	F5W4	516	1.3769	0	F3W3	65	0	118.5	42	B
SB10	0	0		0	0	0		0	0	0		0	0	126	-49	B
SB10	0.9826	0	F3W6	-508	1.2663	0	F5W8	499	1.337	15.552	F3W8	33	0	126	-48.0174	B
SB10	3.2325	7.5	F3W6	-913	2.28	15.552	F5W8	790	2.1468	0	F3W8	177	0	126	-45.7675	B
SB10	5.4825	4.25	F3W4	-3930	9.8587	15.552	F5W3	2082	5.5925	0	F3W4	1479	1.35	126	-43.5175	B
SB10	6.9825	4.25	F3W6	-1373	3.4297	0	F3W4	1444	3.8542	8.8128	F3W4	3265	0	126	-42.0175	B
SB10	7.5	4.25	F3W2	-1345	3.3783	0	F5W8	1305	3.4839	8.8128	F3W4	253	0	126	-41.5	B

SB10	8.4825	4.25	F5W6	-2724	6.8537	0	F3W8	3245	8.6693	15.552	F3W4	1606	1.5295	126	-40.5175	B
SB10	10.7325	7.5	F5W6	-3664	9.1147	0	F3W8	3958	10.5855	15.552	F3W7	142	0	126	-38.2675	B
SB10	12.9825	4.25	F3W6	-4127	10.2618	0	F3W8	4308	11.5334	15.552	F3W4	664	0	126	-36.0175	B
SB10	14.4825	4.25	F3W6	-2789	6.9286	0	F3W4	2672	7.1538	8.8128	F3W4	228	0	126	-34.5175	B
SB10	15	4.25	F3W6	-2865	7.126	8.8128	F3W4	2616	7.0013	0	F3W4	228	0	126	-34	B
SB10	15.9825	4.25	F3W6	-4238	10.5716	0	F3W4	4981	13.4062	15.552	F3W4	4330	10.2264	126	-33.0175	B
SB10	18.2325	7.5	F5W3	-5382	13.5735	0	F3W4	6367	17.0808	15.552	F3W4	618	0	126	-30.7675	B
SB10	20.4825	4.25	F5W3	-7141	17.8532	0	F3W4	7635	20.5143	15.552	F3W8	840	0	126	-28.5175	B
SB10	21.9825	4.25	F5W3	-4920	12.2811	0	F3W4	5623	15.1539	8.8128	F3W4	261	0	126	-27.0175	B
SB10	22.5	4.25	F3W3	-4786	11.9119	8.8128	F5W4	4274	11.4831	0	F3W4	261	0	126	-26.5	B
SB10	23.4825	4.25	F5W3	-7925	19.8294	0	F3W4	10042	27.0671	15.552	F3W4	1711	1.8642	126	-25.5175	B
SB10	25.9098	7.5	F5W3	-10336	25.9081	0	F3W4	16362	44.4682	15.552	F3W8	3406	7.277	126	-23.0902	B
SB10	28.337	7.5	F5W3	-12917	32.3391	0	F3W4	25847	71.1581	15.552	F3W8	4550	10.9287	126	-20.663	B
SB10	30	7.5	F5W3	-6344	15.9057	0	F3W4	11547	31.1827	15.552	F3W8	1649	1.6647	126	-19	B
SB10	30.8607	4.25	F5W3	-7652	19.132	0	F3W4	12302	33.2546	15.552	F3W8	1687	1.7869	126	-18.1393	B
SB10	32.3607	4.25	F3W3	-4785	11.9092	0	F3W4	4916	13.2267	8.8128	F3W4	1528	2.8389	126	-16.6393	B
SB10	33.8607	4.25	F3W3	-6281	15.5957	15.552	F3W8	5662	15.1742	0	F3W8	2318	3.8013	126	-15.1393	B
SB10	37.5	7.5	F5W3	-4996	12.3872	0	F3W8	8518	22.9132	15.552	F3W5	407	0	126	-11.5	B
SB10	41.25	7.5	F5W3	-5448	13.5157	0	F3W8	9154	24.644	15.552	F3W5	576	0	126	-7.75	B
SB10	45	7.5	F5W6	-2915	7.2112	0	F3W8	14680	39.8082	15.552	F3W3	1215	1.35	126	-4	B
SB10	48.1033	0.9167	F3W7	-3718	9.2062	0	F3W8	9790	26.3779	15.552	F3W8	156	0.165	126	-0.8967	B
SB10	50.3017	0.9167	F5W3	-710	1.7623	0	F3W8	4621	12.9404	1.9009	F3W8	421	0.9057	126	1.3017	B
SB10	52.5	0.9167	F5W6	-223	0.5517	0	F3W3	2812	7.7123	1.9009	F3W4	180	0.165	126	3.5	B
SB10	56.25	0.9167	F5W4	-791	1.9648	0	F3W5	3337	9.2061	1.9009	F3W3	290	0.4874	126	7.25	B
SB10	60	0.9167	F5W7	-1631	4.0809	0	F3W5	8404	24.7088	1.9009	F3W3	1030	0	126	11	B
SB10	62.7133	0.9167	F3W3	-17134	43.0644	0	F3W3	28510	78.7837	15.552	F3W3	185	0	126	13.7133	B
SB10	63.4626	7.5	F3W3	-17058	42.8668	0	F3W3	38321	107.3876	15.552	F3W3	7098	0	126	14.4626	B
SB10	66.6027	4.25	F3W3	-7359	18.3027	0	F3W3	15895	43.183	15.552	F3W3	5237	13.1219	126	17.6027	B
SB10	67.5	4.25	F3W3	-5954	14.9676	8.8128	F3W3	3825	10.3882	0	F3W3	2394	5.6051	126	18.5	B
SB10	68.1027	4.25	F3W3	-7485	18.8628	8.8128	F3W3	6649	18.1254	8.8128	F3W3	2394	5.6051	126	19.1027	B
SB10	69.6027	4.25	F3W3	-8275	20.9748	15.552	F3W3	3385	9.1903	0	F3W3	1120	1.5354	126	20.6027	B
SB10	71.8527	7.5	F3W3	-4939	12.4232	15.552	F3W5	3479	9.5974	0	F3W4	32	0	126	22.8527	B
SB10	74.1027	0	F3W3	-4981	12.4859	15.552	F3W8	3760	10.3744	0	F3W4	32	0	126	25.1027	B
SB10	75	0		0	0	0		0	0	0		0	0	126	26	B
SB10	78.75	0		0	0	0		0	0	0		0	0	126	29.75	B
SB10	82.5	0		0	0	0		0	0	0		0	0	126	33.5	B
SB10	86.25	0		0	0	0		0	0	0		0	0	126	37.25	B
SB10	90	0		0	0	0		0	0	0		0	0	126	41	B
SB10	91	0		0	0	0		0	0	0		0	0	126	42	B
SB11	0	0		0	0	0		0	0	0		0	0	133.5	-49	B
SB11	0.9826	0	F3W7	-311	0.7765	0	F3W4	598	1.6011	15.552	F3W8	25	0	133.5	-48.0174	B
SB11	3.2413	7.5	F5W3	-646	1.607	0	F3W4	1142	3.0958	15.552	F3W8	179	0	133.5	-45.7587	B
SB11	5.5	4.25	F5W3	-2317	5.7981	0	F3W4	3236	8.8232	15.552	F3W4	829	0	133.5	-43.5	B
SB11	7	4.25	F5W3	-2429	6.1945	0	F3W4	3092	8.4107	8.8128	F3W4	2816	6.9506	133.5	-42	B
SB11	7.5	4.25	F5W3	-982	2.4868	0	F3W4	1732	4.6597	8.8128	F3W4	99	0	133.5	-41.5	B
SB11	8.5	4.25	F5W3	-2478	6.2703	0	F3W4	3245	8.7142	15.552	F3W4	1005	0	133.5	-40.5	B
SB11	10.7413	7.5	F5W3	-2497	6.2311	0	F3W4	3515	9.4884	15.552	F3W5	149	0	133.5	-38.2587	B
SB11	12.9825	4.25	F5W3	-2276	5.661	0	F3W4	4040	10.9994	15.552	F3W8	971	0	133.5	-36.0175	B
SB11	14.4825	4.25	F5W3	-1684	4.1811	0	F3W4	2605	7.0131	8.8128	F3W1	167	0	133.5	-34.5175	B
SB11	15	4.25	F5W3	-1639	4.0765	0	F3W4	2669	7.2293	8.8128	F3W4	124	0	133.5	-34	B
SB11	15.9825	4.25	F5W3	-3180	7.9504	0	F3W4	4759	12.8941	15.552	F3W4	1190	1.35	133.5	-33.0175	B
SB11	18.2325	7.5	F5W3	-3320	8.2348	0	F3W4	5016	13.4326	15.552	F3W1	134	0	133.5	-30.7675	B
SB11	20.4825	4.25	F5W3	-5815	14.4301	0	F3W4	7850	21.0971	15.552	F3W8	1030	0	133.5	-28.5175	B
SB11	21.9825	4.25	F3W3	-4444	11.0543	0	F5W7	4258	11.4403	8.8128	F3W8	190	0	133.5	-27.0175	B
SB11	22.5	4.25	F3W3	-4230	10.5159	8.8128	F5W7	3544	9.5066	0	F3W8	121	0	133.5	-26.5	B
SB11	23.4825	4.25	F3W3	-6850	17.0185	0	F3W4	7040	18.9025	15.552	F3W8	1214	1.35	133.5	-25.5175	B
SB11	25.7325	7.5	F5W3	-9581	23.8762	0	F3W4	11833	31.9686	15.552	F3W8	1555	1.3649	133.5	-23.2675	B
SB11	27.9825	4.25	F5W3	-13575	34.0419	0	F3W8	20788	57.024	13.9196	F3W8	2089	4.6297	133.5	-21.0175	B
SB11	29.4825	4.25	F5W6	-5862	14.6444	0	F3W8	8110	21.9823	8.8128	F3W8	1564	2.9544	133.5	-19.5175	B
SB11	30	4.25	F5W6	-4950	12.3405	0	F3W8	6362	17.1736	8.8128	F3W8	1564	2.9544	133.5	-19	B
SB11	30.9825	4.25	F5W6	-6612	16.4574	0	F3W8	12071	32.6208	15.552	F3W8	180	0	133.5	-18.0175	B
SB11	34.2413	7.5	F5W3	-7392	18.3763	0	F3W8	10893	29.3911	15.552	F3W8	113	0	133.5	-14.7587	B
SB11	37.5	7.5	F3W3	-7755	19.2862	0	F3W8	12002	32.4306	15.552	F3W8	1324	1.35	133.5	-11.5	B
SB11	37.5962	4.25	F3W3	-7775	19.3368	0	F3W8	11928	32.2274	15.552	F3W8	1324	1.35	133.5	-11.4038	B
SB11	39.0962	4.25	F5W3	-4449	11.0657	0	F3W8	6616	17.8707	8.8128	F3W8	317	0	133.5	-9.9038	B
SB11	40.5962	4.25	F5W3	-6723	16.7001	0	F3W8	14939	40.5236	15.552	F3W8	1195	1.35	133.5	-8.4038	B
SB11	42.7981	7.5	F5W3	-8078	20.0982	0	F3W8	22833	62.5987	15.552	F3W4	978	0	133.5	-6.2019	B
SB11	45	7.5	F5W3	-7770	19.3238	0	F3W8	21756	59.5587	15.552	F3W4	978	0	133.5	-4	B
SB11	47.9705	4.25	F3W3	-8200	20.5628	0	F3W5	14731	39.9491	15.552	F3W8	1689	1.7941	133.5	-1.0295	B
SB11	49.4705	4.25	F5W3	-3398	8.4703	0	F3W8	13817	37.9614	8.8128	F3W8	2670	6.4871	133.5	0.4705	B
SB11	50.9705	4.25	F5W3	-3775	9.4572	0	F3W3	15454	41.9674	15.552	F3W5	1602	1.5151	133.5	1.9705	B
SB11	52.5	7.5	F5W3	-2354	5.8196	0	F3W3	16378	44.5138	15.552	F3W3	1943	2.6031	133.5	3.5	B
SB11	55.4705	4.2352	F5W4	-3890	9.6343	0	F3W3	15566	42.263	15.5212	F3W8	1652	1.6826	133.5	6.4705	B
SB11	56.9705	4.2496	F5W4	-4093	10.1738	0	F3W3	18388	51.0937	8.8128	F3W3	5239	0	133.5	7.9705	B
SB11	58.4705	4.2337	F5W7	-9044	22.5253	0	F3W3	30228	83.7386	15.5182	F3W5	3658	8.0879	133.5	9.4705	B
SB11	60	7.5	F5W7	-8220	20.4529	0	F3W5	38252	107.1839	15.552	F3W5	3473	7.4895	133.5	11	B
SB11	63.6027	4.25	F5W7	-12661	31.6593	0	F3W5	49619	141.4314	15.552	F3W3	4415	0	133.5	14.6027	B
SB11	65.1027	4.25	F5W7	-5534	13.7938	0	F3W3	25497	72.164	8.8128	F3W5	1257	1.9745	133.5	16.1027	B
SB11	66.6027	4.25	F3W7	-4417	10.9455	0	F3W3	15876	43.1564	15.552	F3W3	658	0	133.5	17.6027	B

SB11	67.5	7.5	F5W7	-3557	8.8046	0	F3W3	17181	46.7627	15.552	F3W3	551	0	133.5	18.5	B
SB11	70.8014	7.5	F3W6	-3321	8.2766	0	F3W3	9459	25.6071	15.552	F3W3	89	0	133.5	21.8014	B
SB11	74.1027	0	F3W9	-3931	9.7822	0	F3W3	7037	18.9674	15.552	F3W5	217	0	133.5	25.1027	B
SB11	75	0		0	0	0		0	0	0		0	0	133.5	26	B
SB11	78.75	0		0	0	0		0	0	0		0	0	133.5	29.75	B
SB11	82.5	0		0	0	0		0	0	0		0	0	133.5	33.5	B
SB11	86.25	0		0	0	0		0	0	0		0	0	133.5	37.25	B
SB11	90	0		0	0	0		0	0	0		0	0	133.5	41	B
SB11	91	0		0	0	0		0	0	0		0	0	133.5	42	B
SB12	0	0		0	0	0		0	0	0		0	0	141	-49	B
SB12	3.75	3.54	F3W7	-137	0.3472	7.3406	F5W5	126	0.3399	0	F3W8	60	0	141	-45.25	B
SB12	7.5	3.54	F5W1	-481	1.1876	0	F3W2	495	1.3189	7.3406	F3W3	37	0	141	-41.5	B
SB12	11.25	3.54	F3W6	-809	1.9992	0	F3W7	1034	2.7586	7.3406	F3W5	85	0	141	-37.75	B
SB12	15	3.54	F3W3	-1264	3.1271	0	F3W7	2453	6.6997	7.3406	F3W7	184	0	141	-34	B
SB12	18.026	3.54	F5W3	-2528	6.2511	0	F3W7	4277	11.7584	15.552	F3W6	95	0	141	-30.974	B
SB12	20.263	7.5	F5W3	-2537	6.2727	0	F3W7	3811	10.3617	15.552	F3W7	266	0	141	-28.737	B
SB12	22.5	7.5	F5W3	-2638	6.5249	0	F3W4	3987	10.7405	15.552	F3W4	135	0	141	-26.5	B
SB12	26.25	7.5	F5W3	-4054	10.0405	0	F3W4	4882	13.0704	15.552	F3W4	332	0	141	-22.75	B
SB12	30	7.5	F5W3	-4957	12.2906	0	F3W4	5412	14.5003	15.552	F3W8	656	0	141	-19	B
SB12	33.75	7.5	F5W3	-5040	12.4969	0	F3W8	6404	17.1807	15.552	F3W6	335	0	141	-15.25	B
SB12	37.5	7.5	F5W3	-5001	12.3989	0	F3W8	9127	24.5696	15.552	F3W2	136	0	141	-11.5	B
SB12	37.526	3.54	F5W3	-5000	12.398	0	F3W8	9120	24.5504	15.552	F3W2	136	0	141	-11.474	B
SB12	41.263	3.54	F5W3	-4514	11.248	0	F3W8	7607	20.6661	7.3406	F3W7	208	0	141	-7.737	B
SB12	45	3.54	F5W3	-3521	8.7539	0	F3W8	7195	19.5245	7.3406	F3W8	518	0	141	-4	B
SB12	48.75	3.54	F5W3	-2198	5.4468	0	F3W5	5389	14.5507	7.3406	F3W8	294	0	141	-0.25	B
SB12	52.5	3.54	F5W7	-1837	4.55	0	F3W3	7969	21.6727	7.3406	F3W3	400	0	141	3.5	B
SB12	53.8478	3.54	F5W7	-3576	8.8533	0	F3W3	13217	35.7717	15.552	F3W3	400	0	141	4.8478	B
SB12	56.0978	7.5	F5W7	-3996	9.897	0	F3W3	11561	31.2215	15.552	F5W7	337	0	141	7.0978	B
SB12	58.3478	4.25	F5W7	-3942	9.7632	0	F3W3	9179	24.711	15.552	F3W1	1108	0	141	9.3478	B
SB12	59.8478	4.25	F5W7	-3256	8.0786	0	F3W3	6878	18.5897	8.8128	F3W1	1160	1.6627	141	10.8478	B
SB12	60	4.25	F5W7	-3334	8.2752	0	F3W3	7004	18.9358	8.8128	F3W1	1160	1.6627	141	11	B
SB12	61.3478	4.25	F5W7	-6752	16.7974	0	F3W5	18882	51.4911	15.552	F3W5	3475	7.4978	141	12.3478	B
SB12	63.4633	7.5	F5W7	-7614	18.9332	0	F3W5	26979	74.3907	15.552	F3W1	6917	0	141	14.4633	B
SB12	65.8516	4.25	F5W7	-3752	9.3938	0	F3W5	16862	45.8564	15.552	F3W5	2315	5.3511	141	16.8516	B
SB12	67.3516	4.25	F5W7	-1028	2.5763	0	F3W5	7289	19.7191	8.8128	F3W1	906	0.8522	141	18.3516	B
SB12	67.5	4.25	F5W7	-928	2.3189	0	F3W5	7009	18.9474	8.8128	F3W1	380	0	141	18.5	B
SB12	68.8516	4.25	F1	-1786	4.4747	0	F3W5	6301	17.0066	8.8128	F3W5	1010	0	141	19.8516	B
SB12	71.4772	7.5	F3W4	-1406	3.6005	0	F3W5	8405	22.7704	15.552	F3W5	1010	0	141	22.4772	B
SB12	74.1027	0	F3W9	-2297	5.7267	0	F3W5	5082	13.7325	15.552	F3W6	87	0	141	25.1027	B
SB12	75	0		0	0	0		0	0	0		0	0	141	26	B
SB12	78.75	0		0	0	0		0	0	0		0	0	141	29.75	B
SB12	82.5	0		0	0	0		0	0	0		0	0	141	33.5	B
SB12	86.25	0		0	0	0		0	0	0		0	0	141	37.25	B
SB12	90	0		0	0	0		0	0	0		0	0	141	41	B
SB12	91	0		0	0	0		0	0	0		0	0	141	42	B
SB13	0	0		0	0	0		0	0	0		0	0	148.5	-49	B
SB13	3.75	0		0	0	0		0	0	0		0	0	148.5	-45.25	B
SB13	7.5	0		0	0	0		0	0	0		0	0	148.5	-41.5	B
SB13	11.25	0		0	0	0		0	0	0		0	0	148.5	-37.75	B
SB13	15	0		0	0	0		0	0	0		0	0	148.5	-34	B
SB13	18.026	0	F3W2	-1311	3.2437	15.552	F5W2	735	1.9593	0	F3W2	41	0	148.5	-30.974	B
SB13	20.263	7.5	F5W5	-1105	2.8359	0	F5W2	1066	2.848	15.552	F3W8	375	0	148.5	-28.737	B
SB13	22.5	7.5	F3W1	-2147	5.5602	15.552	F3W7	1749	4.8813	0	F3W8	1687	1.7882	148.5	-26.5	B
SB13	24.026	4.7259	F3W1	-1466	3.764	9.7996	F3W7	1773	4.8979	9.7996	F3W1	349	0	148.5	-24.974	B
SB13	27.013	7.5	F5W6	-1250	3.1534	0	F3W8	6005	16.3132	15.552	F3W8	904	0	148.5	-21.987	B
SB13	30	7.5	F5W3	-1498	3.7113	0	F3W8	5493	14.9651	15.552	F3W1	643	0	148.5	-19	B
SB13	31.526	4.7259	F5W3	-1254	3.1039	0	F3W4	2850	7.7619	9.7996	F3W8	579	0	148.5	-17.474	B
SB13	34.513	7.5	F5W3	-1224	3.0496	0	F3W4	3191	8.6346	15.552	F3W8	1070	0	148.5	-14.487	B
SB13	37.5	7.5	F3W4	-2170	5.3867	0	F3W4	2411	6.4596	15.552	F3W8	172	0	148.5	-11.5	B
SB13	37.526	0	F3W4	-2169	5.3848	0	F3W4	2408	6.4525	15.552	F3W8	172	0	148.5	-11.474	B
SB13	41.263	0		0	0	0		0	0	0		0	0	148.5	-7.737	B
SB13	45	0		0	0	0		0	0	0		0	0	148.5	-4	B
SB13	48.75	0		0	0	0		0	0	0		0	0	148.5	-0.25	B
SB13	52.5	0		0	0	0		0	0	0		0	0	148.5	3.5	B
SB13	53.8478	0	F3W3	-1763	4.4552	0	F3W3	3667	9.9091	15.552	F3W1	193	0	148.5	4.8478	B
SB13	56.0978	7.5	F3W3	-1910	4.8212	0	F3W3	3249	8.7901	15.552	F3W1	193	0	148.5	7.0978	B
SB13	58.3478	4.25	F5W4	-1635	4.1058	0	F3W3	3387	9.3706	15.552	F3W1	836	0.765	148.5	9.3478	B
SB13	59.8478	4.25	F5W7	-1232	3.1091	0	F3W3	3640	9.7772	8.8128	F3W1	2321	5.372	148.5	10.8478	B
SB13	60	4.25	F5W7	-1316	3.295	0	F3W3	3794	10.1914	8.8128	F3W1	2321	5.372	148.5	11	B
SB13	61.3478	4.25	F5W7	-3325	8.3322	0	F3W5	10313	27.8979	15.552	F3W1	5062	12.5642	148.5	12.3478	B
SB13	63.4633	7.5	F5W7	-6786	16.9833	0	F3W5	22524	61.8562	15.552	F3W1	5859	0	148.5	14.4633	B
SB13	65.8516	4.25	F5W7	-3135	7.9194	0	F3W5	10487	28.5878	15.552	F3W5	4596	11.0774	148.5	16.8516	B
SB13	67.3516	4.25	F5W7	-408	1.1223	0	F3W1	2535	7.0267	8.8128	F3W5	2123	4.74	148.5	18.3516	B
SB13	67.5	4.25	F5W7	-367	1.0267	0	F3W8	2028	5.5816	8.8128	F3W5	1265	2.0006	148.5	18.5	B
SB13	68.8516	4.25	F3W3	-1423	3.5572	0	F3W4	2368	6.4987	15.552	F3W5	827	0	148.5	19.8516	B
SB13	71.4772	7.5	F3W7	-1018	2.6589	0	F3W1	3448	9.3876	15.552	F3W5	824	0	148.5	22.4772	B
SB13	74.1027	0	F3W4	-1354	3.3879	0	F3W8	2165	5.8453	15.552	F3W5	102	0	148.5	25.1027	B
SB13	75	0		0	0	0		0	0	0		0	0	148.5	26	B
SB13	78.75	0		0	0	0		0	0	0		0	0	148.5	29.75	B

SB13	82.5	0		0	0	0		0	0	0		0	0	148.5	33.5	B
SB13	86.25	0		0	0	0		0	0	0		0	0	148.5	37.25	B
SB13	90	0		0	0	0		0	0	0		0	0	148.5	41	B
SB13	91	0		0	0	0		0	0	0		0	0	148.5	42	B
SB14	0	0		0	0	0		0	0	0		0	0	156	-49	B
SB14	3.75	0		0	0	0		0	0	0		0	0	156	-45.25	B
SB14	7.5	0		0	0	0		0	0	0		0	0	156	-41.5	B
SB14	11.25	0		0	0	0		0	0	0		0	0	156	-37.75	B
SB14	15	0		0	0	0		0	0	0		0	0	156	-34	B
SB14	18.026	0	F3W2	-633	1.5721	0	F3W2	752	2.015	15.552	F3W8	12	0	156	-30.974	B
SB14	20.263	7.5	F3W8	-1306	3.261	15.552	F3W2	1092	2.9319	0	F3W8	45	0	156	-28.737	B
SB14	22.5	7.5	F3W8	-3512	8.8053	15.552	F5W6	1650	4.4425	0	F3W2	107	0	156	-26.5	B
SB14	26.276	4.25	F3W1	-2609	6.6996	0	F3W8	7532	20.5704	8.8128	F3W8	1039	1.2778	156	-22.724	B
SB14	27.776	4.2466	F5W6	-2953	7.7443	0	F3W1	14784	41.8377	8.8057	F3W8	4770	0	156	-21.224	B
SB14	29.276	4.198	F3W8	-9929	25.0187	0	F3W1	18012	51.1015	8.7049	F3W8	6057	0	156	-19.724	B
SB14	30	7.4971	F3W1	-4478	11.3775	0	F3W8	14863	40.5448	15.5507	F3W8	6046	0	156	-19	B
SB14	33.75	7.5	F3W8	-2084	5.1782	0	F3W8	2018	5.4135	15.552	F3W8	363	0	156	-15.25	B
SB14	37.5	7.5	F3W7	-787	1.9533	0	F3W4	1320	3.5306	15.552	F3W8	87	0	156	-11.5	B
SB14	37.526	0	F3W7	-786	1.9512	0	F3W4	1320	3.5304	15.552	F3W8	87	0	156	-11.474	B
SB14	41.263	0		0	0	0		0	0	0		0	0	156	-7.737	B
SB14	45	0		0	0	0		0	0	0		0	0	156	-4	B
SB14	48.75	0		0	0	0		0	0	0		0	0	156	-0.25	B
SB14	52.5	0		0	0	0		0	0	0		0	0	156	3.5	B
SB14	53.8478	0	F3W3	-1161	2.9359	0	F3W3	1801	4.8772	15.552	F3W8	15	0	156	4.8478	B
SB14	56.0978	7.5	F3W3	-1286	3.2316	0	F3W3	1883	5.0835	15.552	F3W8	15	0	156	7.0978	B
SB14	58.3478	4.25	F3W8	-2070	5.3706	15.552	F3W3	1740	4.874	0	F3W1	1184	1.35	156	9.3478	B
SB14	59.8478	4.25	F5W7	-1083	2.6923	0	F3W5	2544	6.8717	8.8128	F3W1	1762	3.5851	156	10.8478	B
SB14	60	4.25	F5W7	-1137	2.8304	0	F3W5	2777	7.4939	8.8128	F3W1	1762	3.5851	156	11	B
SB14	61.3478	4.25	F5W2	-4907	12.2533	0	F3W1	10788	29.3757	15.552	F3W1	3548	7.7292	156	12.3478	B
SB14	63.4633	7.5	F5W2	-11791	29.6837	0	F3W1	22396	61.7666	15.552	F3W1	5903	0	156	14.4633	B
SB14	65.8516	4.25	F5W2	-6856	17.0682	0	F3W1	12226	33.295	15.552	F3W5	3396	7.2447	156	16.8516	B
SB14	67.3516	4.25	F3W1	-513	1.445	0	F3W1	1820	4.9548	8.8128	F3W5	1992	4.32	156	18.3516	B
SB14	67.5	4.25	F5W5	-329	0.8767	0	F3W1	1714	4.6651	8.8128	F3W1	1297	2.1002	156	18.5	B
SB14	68.8516	4.25	F3W5	-1461	3.699	15.552	F3W4	1321	3.5835	0	F3W1	615	0	156	19.8516	B
SB14	71.4772	7.5	F1	-521	1.331	0	F3W8	2024	5.4812	15.552	F3W5	503	0	156	22.4772	B
SB14	74.1027	0	F1	-790	1.9549	0	F3W8	1359	3.632	15.552	F3W5	50	0	156	25.1027	B
SB14	75	0		0	0	0		0	0	0		0	0	156	26	B
SB14	78.75	0		0	0	0		0	0	0		0	0	156	29.75	B
SB14	82.5	0		0	0	0		0	0	0		0	0	156	33.5	B
SB14	86.25	0		0	0	0		0	0	0		0	0	156	37.25	B
SB14	90	0		0	0	0		0	0	0		0	0	156	41	B
SB14	91	0		0	0	0		0	0	0		0	0	156	42	B
SB15	0	0		0	0	0		0	0	0		0	0	163.5	-49	B
SB15	3.75	0		0	0	0		0	0	0		0	0	163.5	-45.25	B
SB15	7.5	0		0	0	0		0	0	0		0	0	163.5	-41.5	B
SB15	11.25	0		0	0	0		0	0	0		0	0	163.5	-37.75	B
SB15	15	0		0	0	0		0	0	0		0	0	163.5	-34	B
SB15	18.75	3.7211	F3W8	-213	0.5262	0	F3W2	273	0.736	7.716	F3W8	215	0	163.5	-30.25	B
SB15	22.5	3.7211	F3W8	-40	0	0	F3W4	847	2.2626	7.716	F3W8	126	0	163.5	-26.5	B
SB15	26.25	3.7211	F3W8	-611	1.5081	0	F3W4	995	2.6557	7.716	F3W4	36	0	163.5	-22.75	B
SB15	30	3.7211	F5W6	-158	0.4352	0	F3W8	1795	4.7993	7.716	F3W8	191	0	163.5	-19	B
SB15	33.75	3.7211	F5W6	-70	0	0	F3W8	1167	3.1133	7.716	F3W6	64	0	163.5	-15.25	B
SB15	37.5	3.7211	F3W8	-139	0.3446	0	F3W8	589	1.5691	7.716	F3W2	7.261	0	163.5	-11.5	B
SB15	41.25	0		0	0	0		0	0	0		0	0	163.5	-7.75	B
SB15	45	0		0	0	0		0	0	0		0	0	163.5	-4	B
SB15	48.75	0		0	0	0		0	0	0		0	0	163.5	-0.25	B
SB15	52.5	0		0	0	0		0	0	0		0	0	163.5	3.5	B
SB15	53.8478	0	F5W7	-598	1.4857	0	F3W5	1374	3.697	15.552	F3W2	14	0	163.5	4.8478	B
SB15	56.9239	7.5	F5W7	-801	1.9943	0	F3W5	1680	4.5334	15.552	F3W2	14	0	163.5	7.9239	B
SB15	60	7.5	F5W7	-1560	3.8773	0	F3W5	3168	8.4796	15.552	F5W1	307	0	163.5	11	B
SB15	62.1016	4.25	F5W2	-2140	5.2916	0	F3W1	3749	10.0554	13.1827	F3W2	519	0	163.5	13.1016	B
SB15	63.6016	4.25	F5W2	-1404	3.4943	0	F3W1	2526	6.8981	8.8128	F3W1	428	0	163.5	14.6016	B
SB15	65.1016	4.25	F5W2	-1712	4.2506	0	F3W1	3413	9.2775	8.8128	F3W1	1171	1.35	163.5	16.1016	B
SB15	67.5	7.5	F5W2	-1057	2.6443	0	F3W1	2796	7.5021	15.552	F3W5	914	0	163.5	18.5	B
SB15	70.8014	7.5	F3W5	-620	1.5396	0	F3W1	1786	4.7717	15.552	F3W3	90	0	163.5	21.8014	B
SB15	74.1027	0	F3W5	-334	0.8384	0	F3W1	1245	3.3349	15.552	F3W4	12	0	163.5	25.1027	B
SB15	75	0		0	0	0		0	0	0		0	0	163.5	26	B
SB15	78.75	0		0	0	0		0	0	0		0	0	163.5	29.75	B
SB15	82.5	0		0	0	0		0	0	0		0	0	163.5	33.5	B
SB15	86.25	0		0	0	0		0	0	0		0	0	163.5	37.25	B
SB15	90	0		0	0	0		0	0	0		0	0	163.5	41	B
SB15	91	0		0	0	0		0	0	0		0	0	163.5	42	B
SB16	0	0		0	0	0		0	0	0		0	0	171	-49	B
SB16	3.9565	0		0	0	0		0	0	0		0	0	171	-45.0435	B
SB16	7.913	0		0	0	0		0	0	0		0	0	171	-41.087	B
SB16	11.8696	0		0	0	0		0	0	0		0	0	171	-37.1304	B
SB16	15.8261	0		0	0	0		0	0	0		0	0	171	-33.1739	B
SB16	19.7826	0		0	0	0		0	0	0		0	0	171	-29.2174	B
SB16	23.7391	0		0	0	0		0	0	0		0	0	171	-25.2609	B

SB16	27.6957	0		0	0	0		0	0	0		0	0	171	-21.3043	B
SB16	31.6522	0		0	0	0		0	0	0		0	0	171	-17.3478	B
SB16	35.6087	0		0	0	0		0	0	0		0	0	171	-13.3913	B
SB16	39.5652	0		0	0	0		0	0	0		0	0	171	-9.4348	B
SB16	43.5217	0		0	0	0		0	0	0		0	0	171	-5.4783	B
SB16	47.4783	0		0	0	0		0	0	0		0	0	171	-1.5217	B
SB16	51.4348	0		0	0	0		0	0	0		0	0	171	2.4348	B
SB16	55.3913	2.5039	F5W7	-114	0.2818	0	F3W5	226	0.6024	5.1921	F5W1	21	0	171	6.3913	B
SB16	59.3478	2.5039	F5W7	-89	0.2246	0	F3W3	235	0.627	5.1921	F5W1	54	0	171	10.3478	B
SB16	63.3043	2.5039	F5W8	-145	0.3568	0	F3W6	377	1.0066	5.1921	F3W8	69	0	171	14.3043	B
SB16	67.2609	2.5039	F5W7	-7.471	0	0	F3W3	258	0.6883	5.1921	F3W6	14	0	171	18.2609	B
SB16	71.2174	2.5039	F5W2	-57	0.1443	0	F3W1	291	0.7752	5.1921	F3W3	30	0	171	22.2174	B
SB16	75.1739	0		0	0	0		0	0	0		0	0	171	26.1739	B
SB16	79.1304	0		0	0	0		0	0	0		0	0	171	30.1304	B
SB16	83.087	0		0	0	0		0	0	0		0	0	171	34.087	B
SB16	87.0435	0		0	0	0		0	0	0		0	0	171	38.0435	B
SB16	91	0		0	0	0		0	0	0		0	0	171	42	B