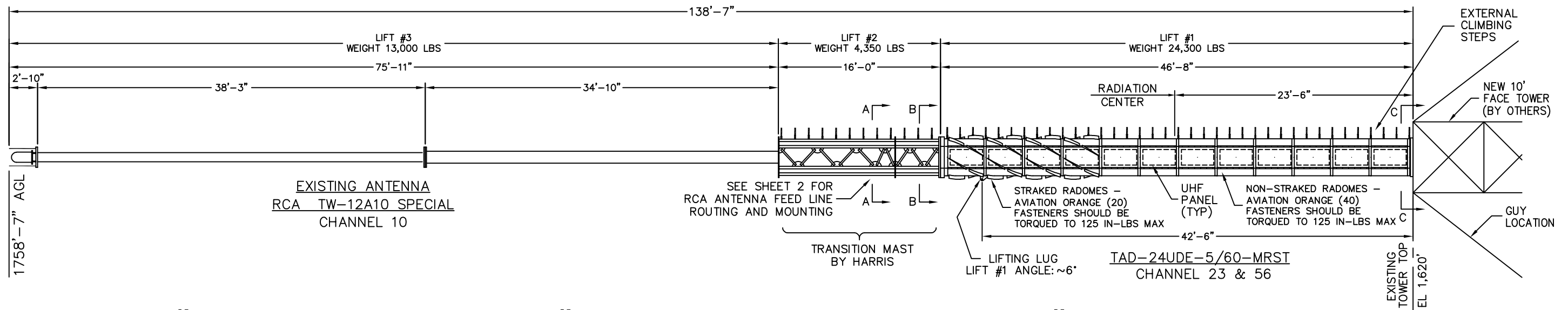


Attachment D - Drawings and Structural Analysis

ELEVATION VIEW

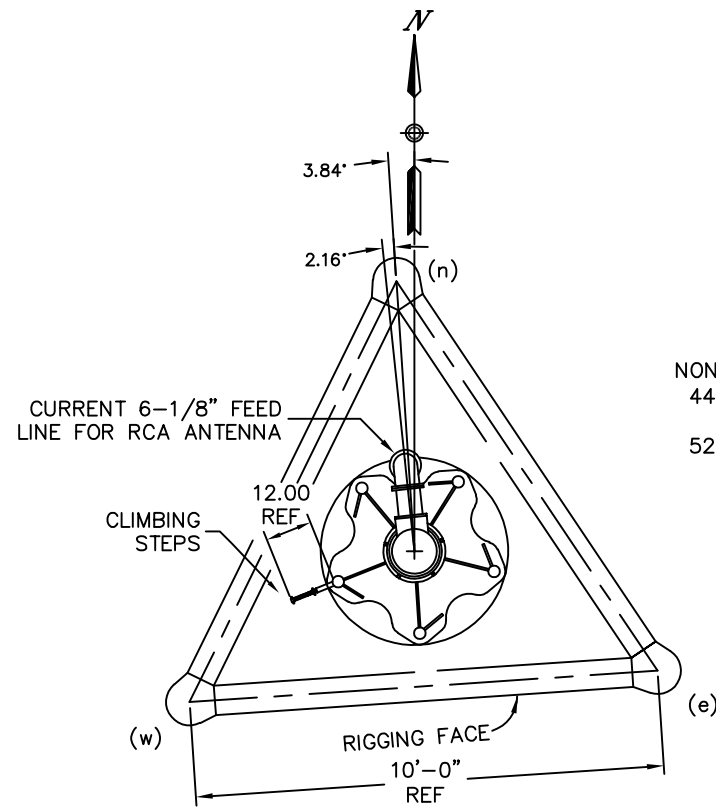


TOWER LOADS PER TIA/EIA-222-F, NO ICE

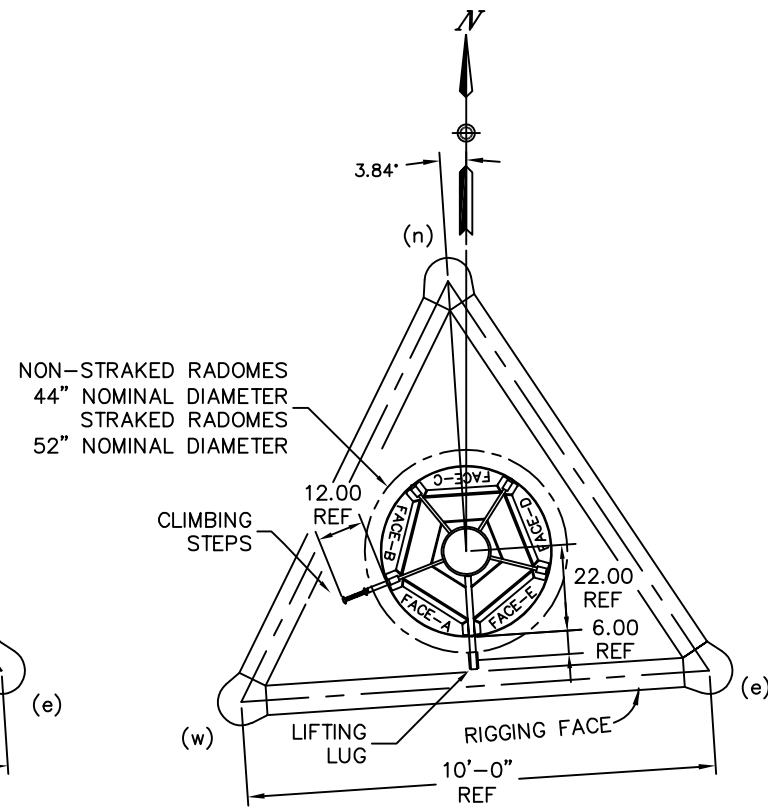
$C_f A_c = 290$ SQ FT
 $M_A = 45.7$ FT
 WEIGHT = 41,650 LBS (CALCULATED)
 SHEAR = 19,150 LBS
 MOMENT = 875,150 FT-LBS

NOTE:

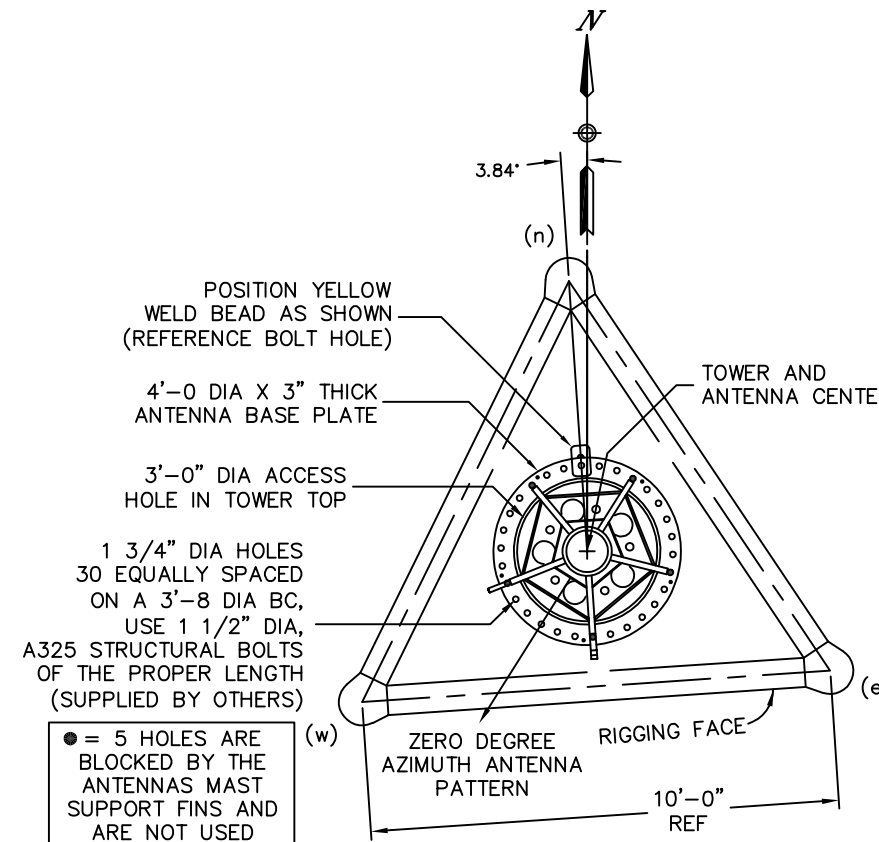
ABOVE LOADS ARE CALCULATED PER EIA-222F AT A BASIC WIND SPEED OF 100 MPH, NO ICE AND A TOWER HEIGHT OF 1,620 FEET. LOADS ASSUME THE EXISTING RCA TW-12A10 IS A "SPECIAL" ANTENNA PER RCA PROPOSAL #78-306-526, DATED 04/20/78, THAT NOTES A SHEAR OF 2,880 LBS AND MOMENT OF 102,528 FT-LBS, PER EIA-222C 50/33 PSF, WEIGHT OF 13,000 LBS, HEIGHT OF 73.1', PLUS 2.8' LIGHTING RODS, AND BURY MOUNT LENGTH OF 11.5'.



TW-12A10 MOUNTING ORIENTATION SECTION-AA



ORIENTATION OF LIFTING LUGS AND POLE STEPS SECTION-BB



TOWER TOP MOUNTING REQUIREMENTS SECTION-CC
 NEW TOWER TOP INTERFACE (BY OTHERS)

TOLERANCES UNLESS NOTED .X ± .030 .XX ± .015 .XXX ± .005 ANGLES ± 1 DEG ALL ✓ INDICATES 125 MICRO INCH	ALL DIMENSION IN INCHES UNLESS OTHERWISE NOTED MUST COMPLY WITH WORKMANSHIP STANDARDS SPEC 817-1152-001
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NOTES

LTR	ZONE	DATE	DFTM	ENG	ECD NBR
A	.	12/21/99	BEA	JHS	.
CREATED DRAWING					
B	.	01/26/00	BEA	JHS	P12322
CHANGED SHEET-2					

REVISION	LTR	ZONE	DATE	DFTM	ENG	ECD NBR
	A	.	12/21/99	BEA	JHS	.
	CREATED DRAWING					
	B	.	01/26/00	BEA	JHS	P12322
CHANGED SHEET-2						

HARRIS

HARRIS CORPORATION
 BROADCAST SYSTEM
 P.O. BOX 4290
 QUINCY, ILLINOIS 62305

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DRAWN BY ARROWSMITH	TITLE INSTALLATION INSTRUCTIONS, TAD-24UDE-5/60-MRST LAFAYETTE, LA (KLFY)
DATE 11/04/99	DWG NO. 843 5212 305
ENG CHK JHS	REV B
PROJ ENG J.H. STEINKAMP	
MFG ENG -	
D SHEET 1 OF 4	

* = FIELD CUT FEED LINES AS REQUIRED

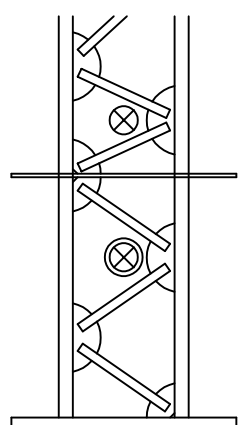
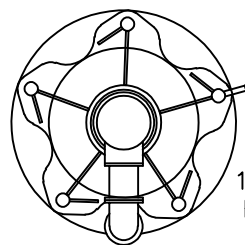
TRANSITION MAST

HARRIS ANTENNA TAD-24UDE-5/60-MRST

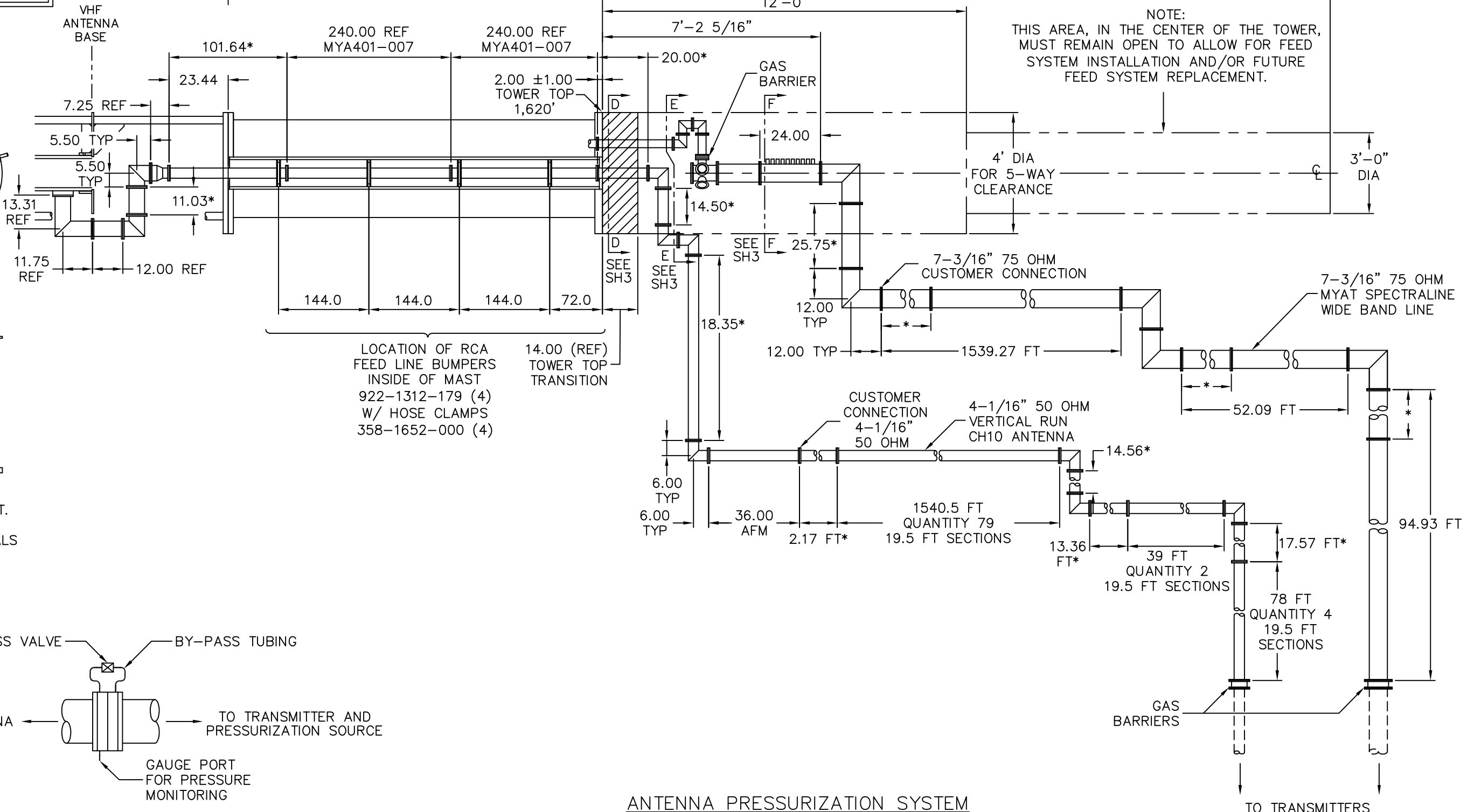
UHF ANTENNA BASE 1,620 FT

24'-0"

NOTE: THIS AREA, IN THE CENTER OF THE TOWER, MUST REMAIN OPEN TO ALLOW FOR FEED SYSTEM INSTALLATION AND/OR FUTURE FEED SYSTEM REPLACEMENT.

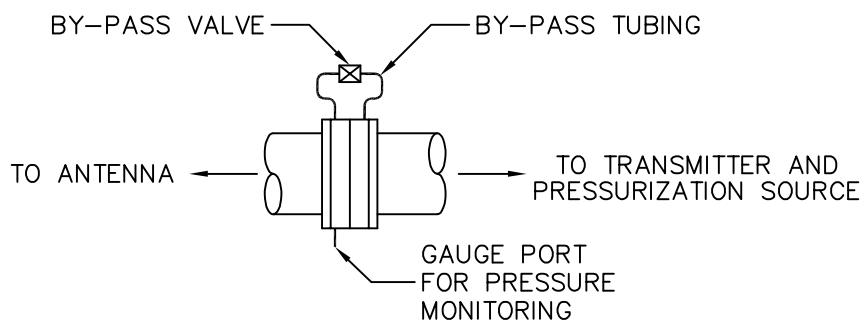


ELEVATION OF TRANSITION MAST. RUN FEED LINE BETWEEN DIAGONALS AS SHOWN.



LOCATION OF RCA FEED LINE BUMPERS INSIDE OF MAST 922-1312-179 (4) W/ HOSE CLAMPS 358-1652-000 (4)

14.00 (REF) TOWER TOP TRANSITION



TYPICAL GAS BARRIER BY-PASS VALVES WILL SHIP IN THE OPEN POSITION

ANTENNA PRESSURIZATION SYSTEM

NOTE: LOCATION OF GAS BARRIERS ALLOW PARTITIONING AND PRESSURE MONITORING POINTS OF VERTICAL/HORIZONTAL LINE RUN AND EACH INDIVIDUAL FACE OF THE UHF ANTENNA.

TOLERANCES UNLESS NOTED .X ± .030 .XX ± .015 .XXX ± .005 ANGLES ± 1 DEG ALL ✓ INDICATES 125 MICRO INCH	ALL DIMENSION IN INCHES UNLESS OTHERWISE NOTED MUST COMPLY WITH WORKMANSHIP STANDARDS SPEC 817-1152-001
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NOTES

REVISION	LTR	ZONE	DATE	DFTM	ENG	ECD NBR
A	.	.	12/21/99	BEA	JHS	.
CREATED DRAWING						
B	1-C	01/26/00	BEA	JHS	P12322	
CHANGED "SPECTRALINE" NOTE-REMOVED CH #S						

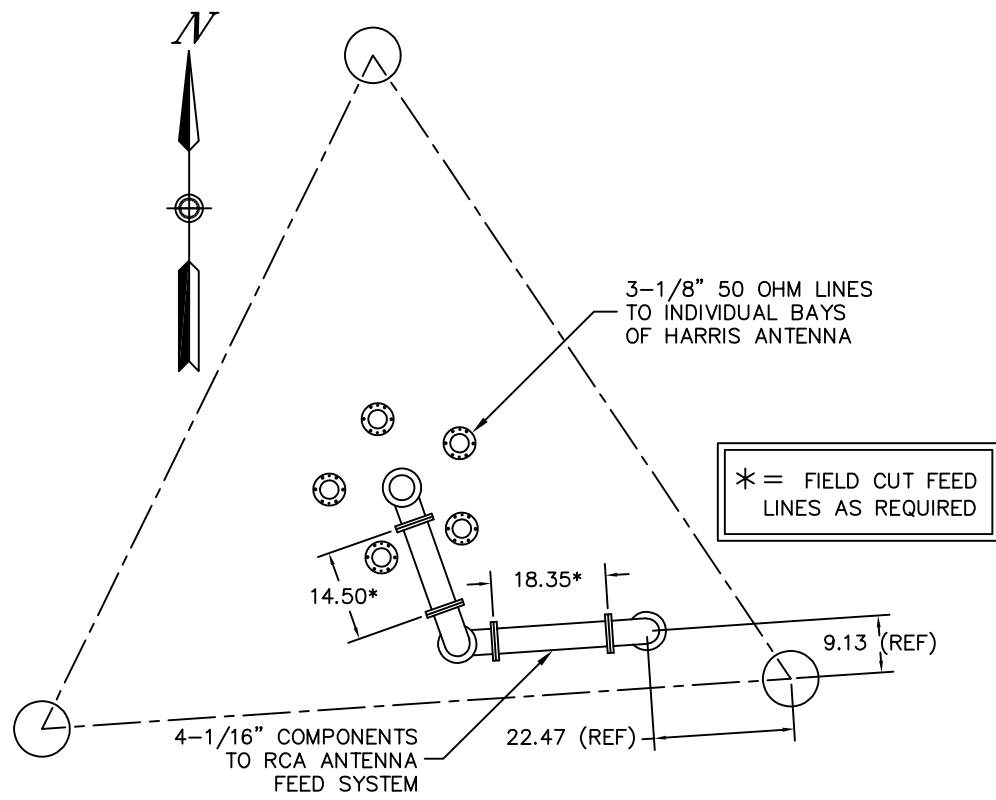


HARRIS CORPORATION BROADCAST SYSTEM P.O. BOX 4290 QUINCY, ILLINOIS 62305

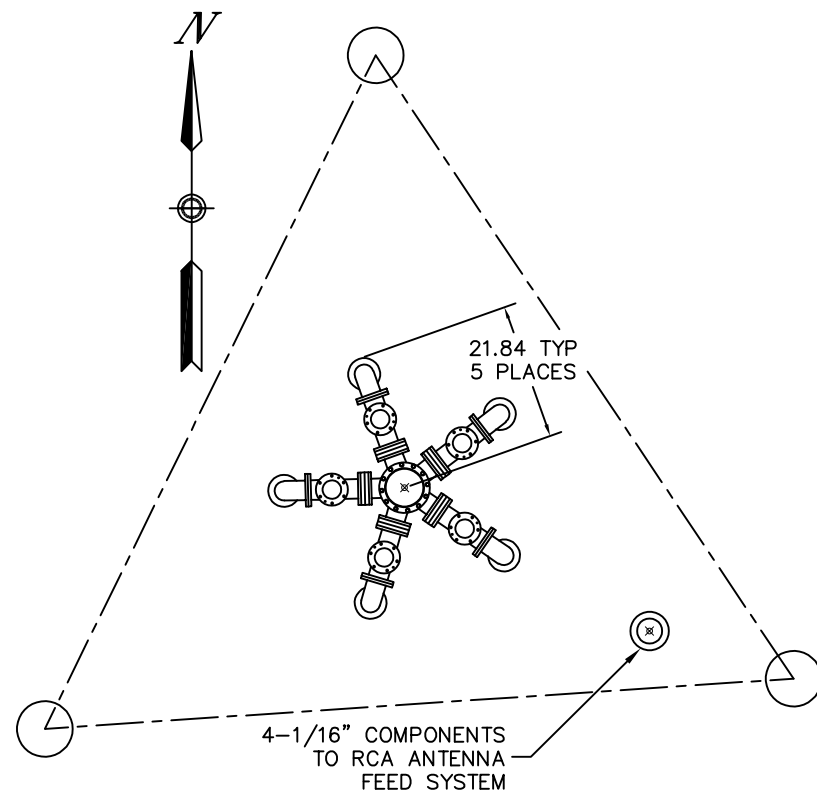
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DRAWN BY	ARROWSMITH
DATE	11/04/99
ENG CHK	JHS
PROJ ENG	J.H. STEINKAMP
MFG ENG	-
D	SHEET 2 OF 4

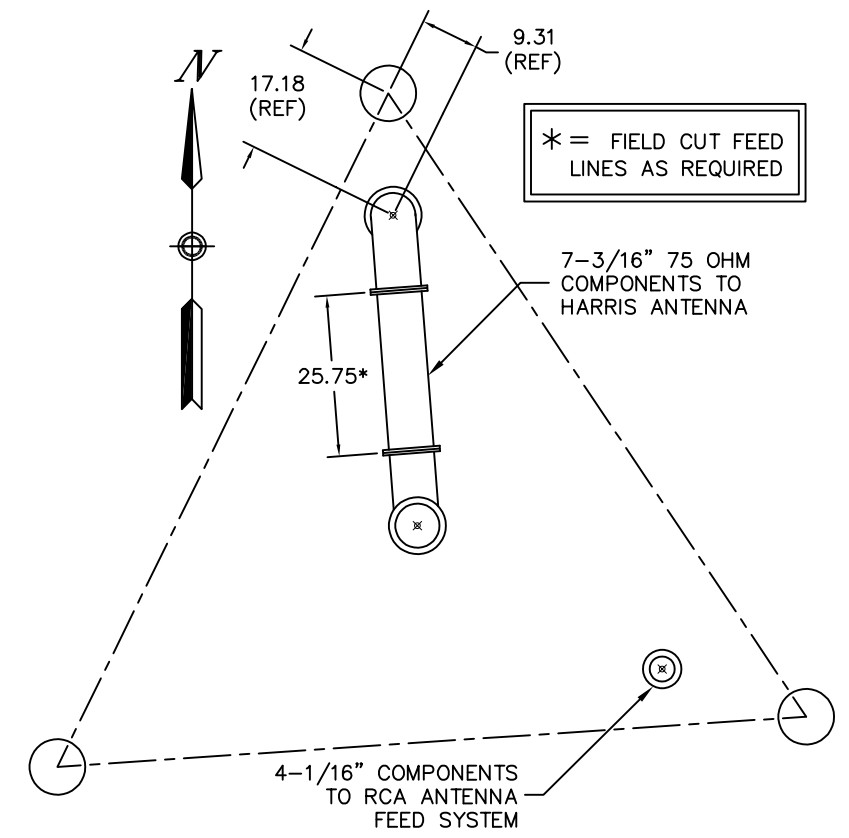
TITLE	INSTALLATION INSTRUCTIONS, TAD-24UDE-5/60-MRST LAFAYETTE, LA (KLFY)
DWG NO.	843 5212 305
REV	B



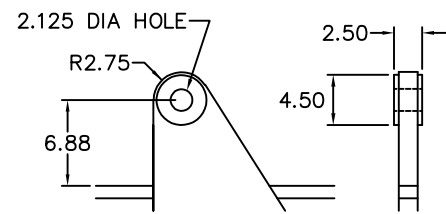
SECTION-DD



SECTION-EE



SECTION-FF



ANTENNA LIFT LUG

USE WITH A 1-3/4" SCREW PIN ANCHOR SHACKLE
WORKING LOAD LIMIT: 25 TONS (50,000 LBS)

TOLERANCES UNLESS NOTED .X ± .060 .XX ± .030 .XXX ± .015 ANGLES ± 1 DEG ALL √ INDICATES 125 MICRO INCH	ALL DIMENSION IN INCHES UNLESS OTHERWISE NOTED MUST COMPLY WITH WORKMANSHIP STANDARDS SPEC 817-1853-001
---	--

NOTES

REVISION	LTR	ZONE	DATE	DFTM	ENG	ECD NBR
A			12/21/99	BEA	JHS	
CREATED DRAWING						
B			01/26/00	BEA	JHS	P12322
CHANGED SHEET-2						

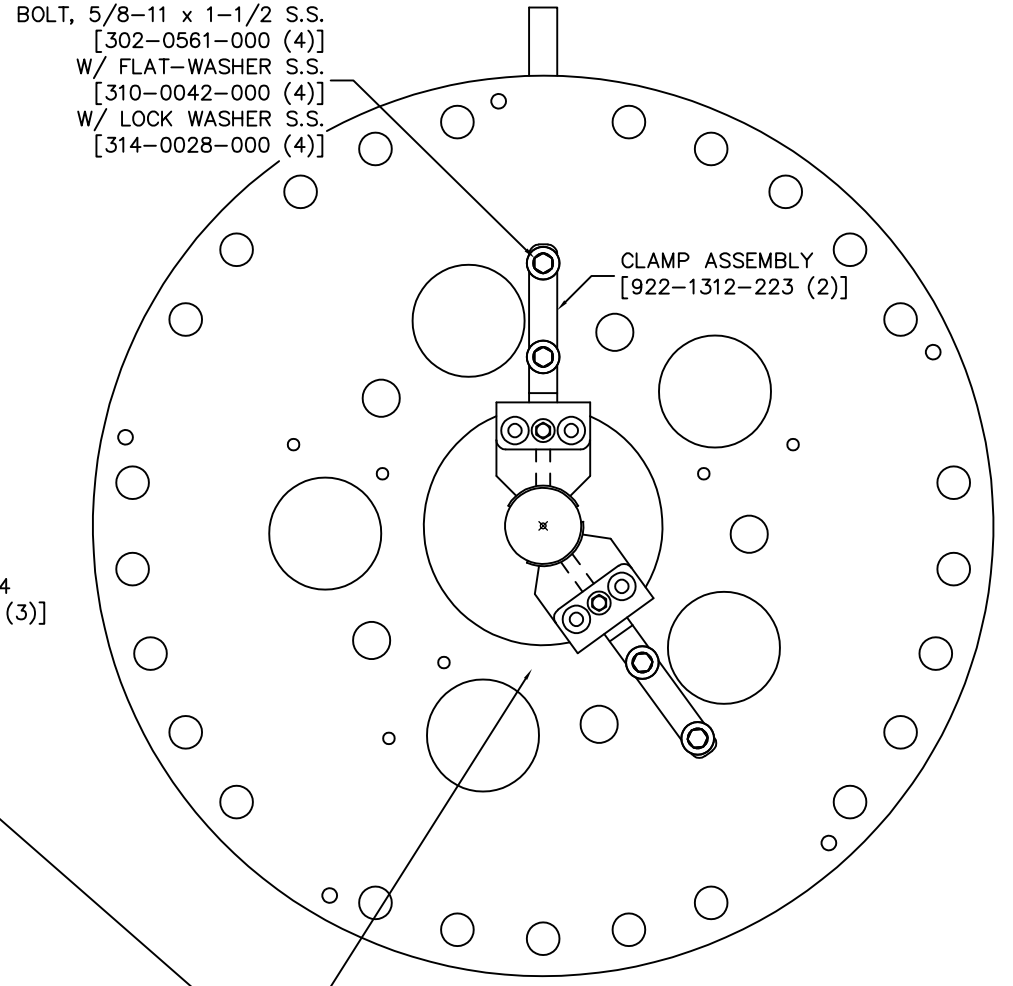
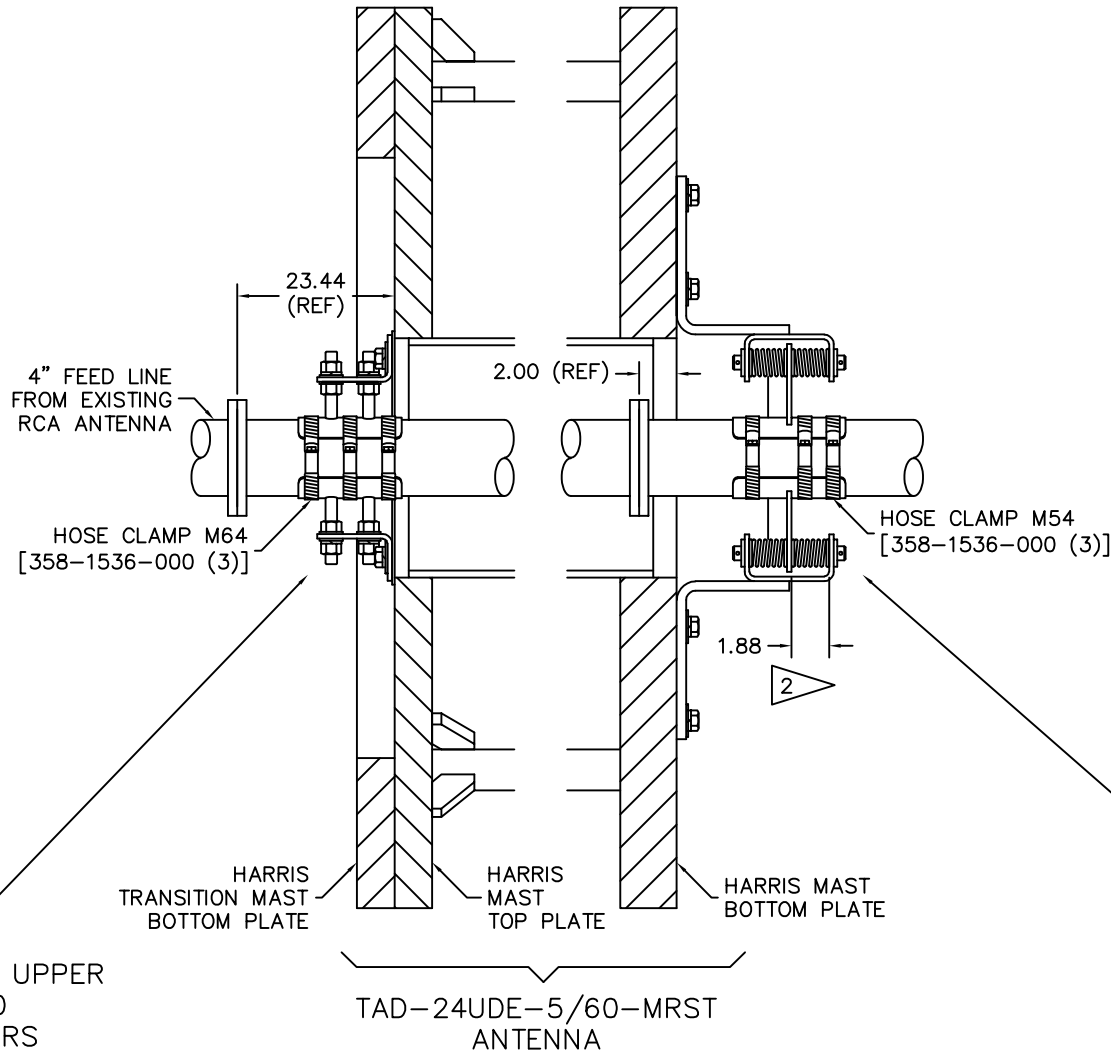
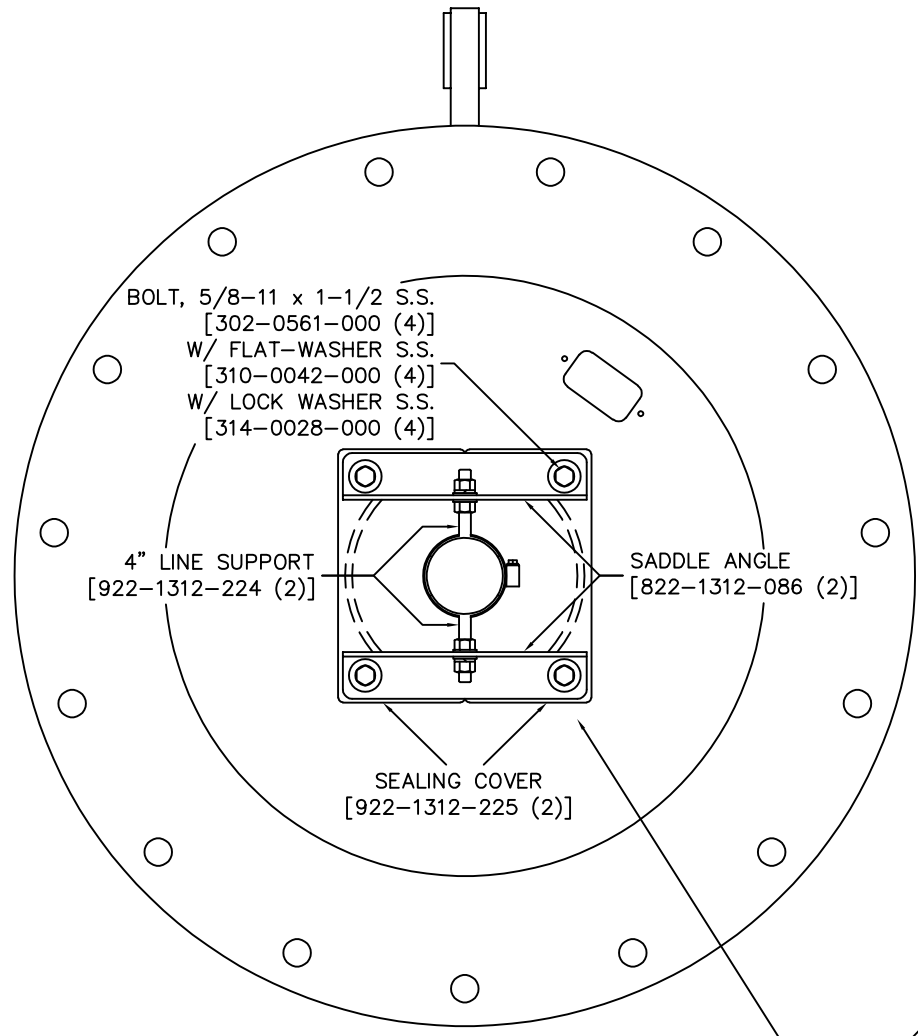


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DRAWN BY	ARROWSMITH
DATE	11/04/99
ENG CHK	JHS
PROJ ENG	J.H. STEINKAMP
MFG ENG	-
D	SHEET 3 OF 4

TITLE	INSTALLATION INSTRUCTIONS
	TAD-24UDE-5/60-MRST
	LAFAYETTE, LA (KLFY)
DWG NO.	843-5212-305
REV	B



4-1/16" LINE CLAMP UPPER
992-8847-180
INCLUDES NUMBERS
IN BRACKETS []

4-1/16" LINE CLAMP LOWER
992-8847-181
INCLUDES NUMBERS
IN BRACKETS []

TAD-24UDE-5/60-MRST
ANTENNA

TOLERANCES UNLESS NOTED .X ± .060 .XX ± .030 .XXX ± .015 ANGLES ± 1 DEG ALL ✓ INDICATES 125 MICRO INCH	ALL DIMENSION IN INCHES UNLESS OTHERWISE NOTED MUST COMPLY WITH WORKMANSHIP STANDARDS SPEC 817-1853-001
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NOTES
1) SUGGESTED ORIENTATION ONLY. PLACE CLAMP AND SADDLE ASSEMBLIES AS REQUIRED TO ALLOW EASE OF INSTALLATION AND MAINTENANCE.
2) DURING INSTALLATION, ADJUST CLAMP ASSEMBLY POSITION ON 4" FEED LINE TO SUPPORT APPROXIMATELY 90% OF ANTENNA LINE SECTION WEIGHT.

REV	LTR	ZONE	DATE	DFTM	ENG	ECD NBR
A	.	.	12/21/99	BEA	JHS	.
CREATED DRAWING						
B	.	.	01/26/00	BEA	JHS	P12322
CHANGED SHEET-2						

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HARRIS CORPORATION
BROADCAST SYSTEMS
P.O. BOX 4290
QUINCY, ILLINOIS 62305

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DRAWN BY ARROWSMITH	TITLE INSTALLATION INSTRUCTIONS
DATE 11/04/99	TAD-24UDE-5/60-MRST
ENG CHK JHS	LAFAYETTE, LA (KLFY)
PROJ ENG J.H. STEINKAMP	DWG NO. 843-5212-305
MFG ENG -	REV B
D SHEET 4 OF 4	

NOTES:
UNLESS OTHERWISE SPECIFIED

1620' GUY TOWER ELEVATION

KLFY - LAFAYETTE, LA

- THE GENERAL CONTRACTOR MUST VERIFY ALL DIMENSIONS, CONDITIONS AND ELEVATIONS BEFORE STARTING WORK. ALL DISCREPANCIES SHALL BE CALLED TO THE ATTENTION OF THE ENGINEER AND SHALL BE RESOLVED BEFORE PROCEEDING WITH THE WORK. ALL WORK SHALL BE PERFORMED IN A WORKMANLIKE MANNER IN ACCORDANCE WITH ACCEPTED CONSTRUCTION PRACTICES.
- NOTES AND DETAILS ON THESE DRAWINGS SHALL TAKE PRECEDENCE OVER THESE GENERAL NOTES.
- THE DETAILS ON THESE DRAWINGS SHALL APPLY IN ALL CASES UNLESS SPECIFICALLY SHOWN OTHERWISE. WHERE NO DETAIL IS SHOWN, CONSTRUCTION SHALL BE AS SHOWN FOR SIMILAR WORK.
- IT IS THE INTENTION OF THESE DRAWINGS TO SHOW THE COMPLETED INSTALLATION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL TEMPORARY BRACING, SHORING, TIES, FORMWORK, ETC. IN ACCORDANCE WITH ALL NATIONAL, STATE, AND LOCAL ORDINANCES, TO SAFELY EXECUTE ALL WORK AND SHALL BE RESPONSIBLE FOR SAME. ALL WORK SHALL BE IN ACCORDANCE WITH LOCAL CODES.
- THE CONTRACTOR SHALL USE ADEQUATE NUMBERS OF SKILLED WORKMEN WHO ARE THOROUGHLY TRAINED AND EXPERIENCED IN THE NECESSARY CRAFTS, AND WHO ARE COMPLETELY FAMILIAR WITH THE SPECIFIED REQUIREMENTS AND METHODS NEEDED FOR PROPER PERFORMANCE OF THE WORK.
- CONSTRUCTION CONTRACTOR AGREES THAT IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, CONSTRUCTION CONTRACTOR WILL BE REQUIRED TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THE PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY, THAT THIS REQUIREMENT SHALL BE MADE TO APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS, AND CONSTRUCTION CONTRACTOR FURTHER AGREES TO INDEMNIFY AND HOLD DESIGN PROFESSIONAL HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT.
- THE TOWER DESIGN DOES NOT INCLUDE STRESSES DUE TO ERECTION AND/OR TRANSPORTATION SINCE ERECTION EQUIPMENT AND METHODS ARE UNKNOWN.
- TOWER GROUNDING SHALL COMPLY WITH ALL LOCAL AND NATIONAL CODES. GROUNDING TO BE DONE BEFORE ERECTION.
- THE TOWER IS DESIGNED TO SUPPORT ONLY THE ANTENNAS AS SHOWN ON THE DRAWINGS. THE ENGINEER WILL NOT BE RESPONSIBLE FOR OVERSTRESS CONDITIONS WHICH MAY OCCUR DUE TO DEVIATIONS IN ANTENNA SIZES AND/OR LOCATIONS FROM THOSE SHOWN ON THE DRAWINGS.
- ALL WORK SHALL COMPLY WITH CAL OSHA SAFETY REQUIREMENTS. PROCEDURES FOR THE PROTECTION OF EXCAVATIONS, EXISTING CONSTRUCTION AND UTILITIES SHALL BE ESTABLISHED PRIOR TO FOUNDATION INSTALLATION.
- ALL FACE WIDTHS ARE FROM CENTER LINE OF LEG.
- STEEL HSS ROUND CONFORMS TO ASTM A500 GRADE B 42 KSI. FLANGE PLATES CONFORM TO ASTM A572 50 KSI AND ALL OTHER PLATE, BAR, AND ANGLE CONFORM TO ASTM A36. STRUCTURAL TUBING CONFORMS TO ASTM A-513 C1020 DOM TYPE 5.
ALL WELDING CONFORMS TO A.W.S. D1.1 LATEST REVISION.
ALL GALVANIZING CONFORMS TO ASTM A-123 AND A-153 FOR HARDWARE.

PROPOSED
KAJN ANTENNA

ANTENNA INFORMATION						
ITEM #	ELEVATION	QUANTITY	ANT. TYPE	AZIM	PROJ'D AREA	LINE SIZE
①	1619'	1 EA.	RCA TW-12A KLFY ANALOG	N / A	290 SQ FT	1 @ 4 1/16"
②	1619'	1 EA.	KLFY DIELECTRIC DELTA STAR ANTENNA	N / A		1 @ 7 3/16"
③	1552'	1 EA.	KLPB DIELECTRIC ANTENNA	N / A	16 SQ FT	1 @ 4 1/16"
④	995' -905'	1 EA.	ERI 12 BAY FM ANTENNA	N / A	60.2 SQ FT	1 @ 3 1/8"
⑤	960'	1 EA.	30' WHIP ANTENNA	N / A	7.8 SQ FT	1 @ 1 5/8"
⑥	460'	1 EA.	10' GRID DISH	N / A	78.54 SQ FT	1 @ 7/8"
⑦	400'	1 EA.	10' RFS DISH	N / A	78.54 SQ FT	1 @ EW63
⑧	180'	1 EA.	MICROWAVE DISH	N / A	12.54 SQ FT	1 @ CAT 5
⑨	180'	1 EA.	PCS PANEL ANTENNA	N / A	5.5 SQ FT	1 @ CAT 5
⑩	16'	1 EA.	GPS	N / A	0.4 SQ FT	1 @ 1/4"

TOWER DESIGN LOADING

WIND LOAD: ASCE7-16 BASIC WIND SPEED 127 MPH, 3 SECOND CUST
ANSI/TIA-222 REV H, BASIC WIND SPEED 30 MPH WITH 1.0" ICE
EXPOSURE C, STRUCTURE CLASS II
Kd=WIND DIRECTION PROBABILITY FACTOR: 0.85
TOPOGRAPHY CATEGORY I WITH A CREST HEIGHT 0'
FOUNDATION REACTIONS: SHEAR= 5 kips, AXIAL= 2975 kips,
LOAD COMBINATION 1.2D + 1.0W


ENGINEER: TASHJIAN TOWERS CORP.
KARL K. TASHJIAN
2765 S. TEMPERANCE AVE.
FOWLER CA. 93625
WORK (559) 834-4300
FAX (559) 834-4377
MOBILE (559) 284-9707
RCE #35542

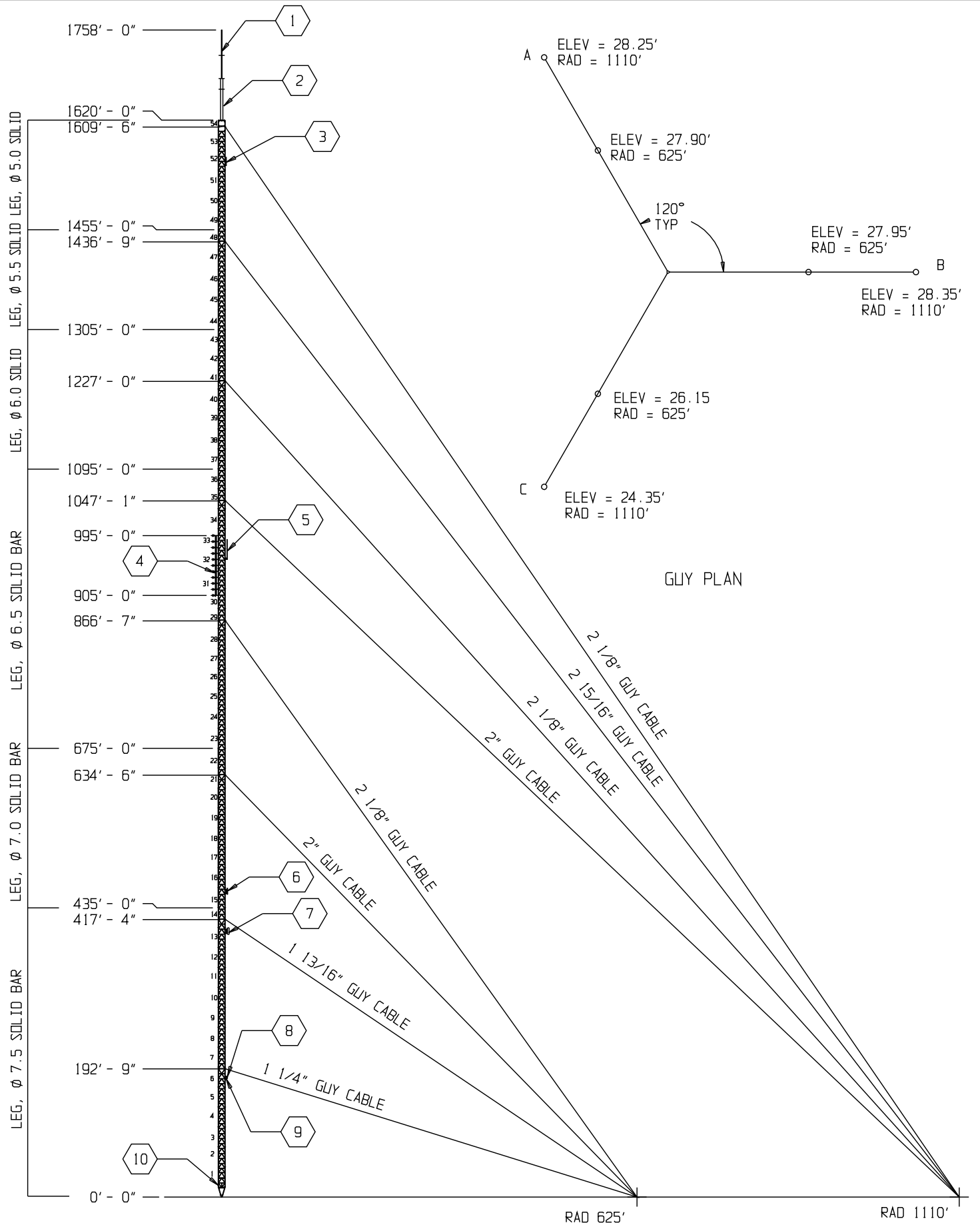
OWNER/CLIENT:
KLFY
1808 ERASTE LANDRY ROAD
LAFAYETTE, LA 70506

KAJN RADIO FM 102.9
110 WEST THIRD ST.
CROWLEY, LOUISIANA 70527

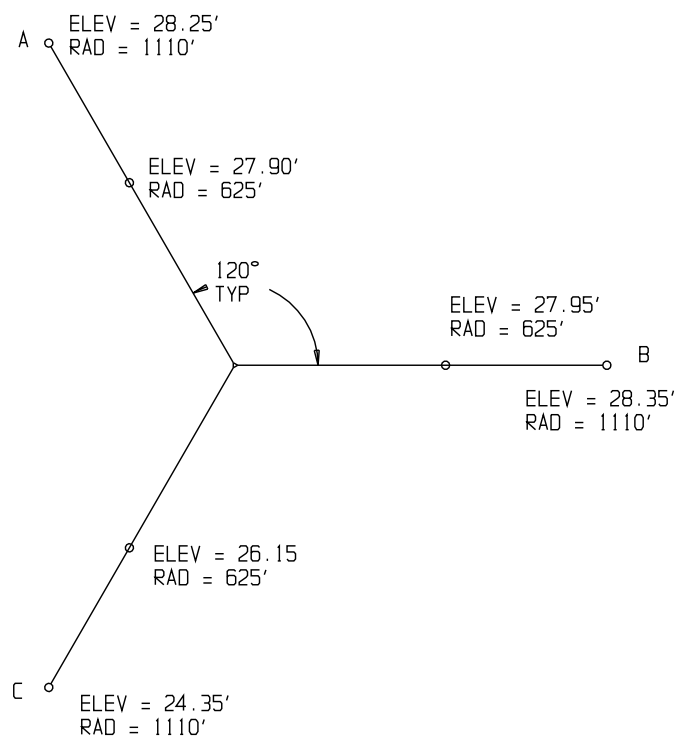
LOCATION:
3413 PHILLIPS ROAD
BRANCH, LA 70578

LAT.: 30° 19' 20.0" N
LONG.: 92° 16' 59.0" W

PART NO.		 TASHJIAN TOWER CORPORATION 2765 S. TEMPERANCE AVENUE, FOWLER, CALIF. 93625			
APPROVALS	DATE				
DRAWN	TAM 10/24/18	TITLE 1620' GUY TOWER ELEVATION KLFY - LAFAYETTE, LA			
CHECKED		SIZE	CAGE CODE	DRAWING NO.	REV.
ENG. APPD.		D		T-1	-
DO NOT SCALE DRAWING		SCALE	1" = 1"	SHEET 1 OF	



ELEVATION VIEW



GUY PLAN

TOWER MEMBER SIZE INFORMATION						
SECTION NO.'S	LEG MEMBER	DIAGONAL MEMBER	HORIZONTAL MEMBER	INNER HORIZONTAL MEMBER	BRACE BOLTS	FLANGE BOLTS
15' BASE	Ø 7.5 SOLID ROUND BAR	DIAGONAL, 4 X 4 X 1/2 ANGLE	HORIZONTAL, 4 X 4 X 1/2 ANGLE	-	2 e 1"	-
1	Ø 7.5 SOLID ROUND BAR	DIAGONAL, 2L 2 1/2 X 2 1/2 X 3/8	LOWER MID, 2C 10 X 30# CHANNEL HORIZONTAL, 2L 2 1/2 X 2 1/2 X 3/8 UPPER MID, 2C 6 X 13# CHANNEL	INNER, 3 X 3 X 1/4 ANGLE	2 e 3/4"	8 e 1 1/4"
2	Ø 7.5 SOLID ROUND BAR	DIAGONAL, 2L 2 1/2 X 2 1/2 X 1/4 BOT DIAG, 2L 2 1/2 X 2 2/1 X 3/8	HORIZONTAL, 2L 2 1/2 X 2 1/2 X 1/4 BOT HORIZ, 2L 2 1/2 X 2 1/2 X 3/8	INNER, 3 X 3 X 1/4 ANGLE	2 e 3/4"	8 e 1 1/4"
3, 4, 8, 9, 10	Ø 7.5 SOLID ROUND BAR	DIAGONAL, 2L 2 1/2 X 2 1/2 X 3/16	HORIZONTAL, 2L 2 1/2 X 2 1/2 X 3/16	INNER, 2 1/2 X 2 1/2 X 1/4	2 e 3/4"	8 e 1 1/4"
5, 7, 11	Ø 7.5 SOLID ROUND BAR	DIAGONAL, 2L 2 1/2 X 2 1/2 X 1/4	HORIZONTAL, 2L 2 1/2 X 2 1/2 X 1/4	INNER, 2 1/2 X 2 1/2 X 1/4	2 e 3/4"	8 e 1 1/4"
6 (GUY EAR)	Ø 7.5 SOLID ROUND BAR	DIAGONAL, 2L 2 1/2 X 2 1/2 X 3/8	HORIZONTAL, 2L 2 1/2 X 2 1/2 X 3/8 TOP HORIZ, 2C 8 X 13.75# CHANNEL	INNER, 2 1/2 X 2 1/2 X 3/8	2 e 3/4"	8 e 1 1/4"
12, 13	Ø 7.5 SOLID ROUND BAR	DIAGONAL, 2L 2 1/2 X 2 1/2 X 3/8	HORIZONTAL, 2L 2 1/2 X 2 1/2 X 3/4	INNER, 2 1/2 X 2 1/2 X 1/4	2 e 3/4"	8 e 1 1/4"
14 (GUY EAR)	Ø 7.5 SOLID ROUND BAR	DIAGONAL, 2L 2 1/2 X 2 1/2 X 3/8	HORIZONTAL, 2L 2 1/2 X 2 1/2 X 3/8 MID HORIZ, 2C 8 X 13.75# CHANNEL	INNER, 2 1/2 X 2 1/2 X 3/8	2 e 3/4"	8 e 1 1/4"
15, 20	Ø 7.0 SOLID ROUND BAR	DIAGONAL, 2L 2 1/2 X 2 1/2 X 3/8	HORIZONTAL, 2L 2 1/2 X 2 1/2 X 3/8	INNER, 2 1/2 X 2 1/2 X 3/8	2 e 3/4"	8 e 1 1/4"
16, 19	Ø 7.0 SOLID ROUND BAR	DIAGONAL, 2L 2 1/2 X 2 1/2 X 1/4	HORIZONTAL, 2L 2 1/2 X 2 1/2 X 1/4	INNER, 2 1/2 X 2 1/2 X 1/4	2 e 3/4"	8 e 1 1/4"
17, 18	Ø 7.0 SOLID ROUND BAR	DIAGONAL, 2L 2 1/2 X 2 1/2 X 3/16	HORIZONTAL, 2L 2 1/2 X 2 1/2 X 3/16	INNER, 2 1/2 X 2 1/2 X 1/4	2 e 3/4"	8 e 1 1/4"
21 (GUY EAR)	Ø 7.0 SOLID ROUND BAR	DIAGONAL, 2L 2 1/2 X 2 1/2 X 3/8	HORIZONTAL, 2L 2 1/2 X 2 1/2 X 3/8 UPPER MID HORIZ, 2C 8 X 13.75# CHANNEL	INNER, 2 1/2 X 2 1/2 X 3/8	2 e 3/4"	8 e 1 1/4"
23, 27, 30, 33, 36	Ø 6.5 SOLID ROUND BAR	DIAGONAL, 2L 2 1/2 X 2 1/2 X 3/8	HORIZONTAL, 2L 2 1/2 X 2 1/2 X 1/4	INNER, 2 1/2 X 2 1/2 X 1/4	2 e 3/4"	8 e 1 1/4"
28, 34	Ø 6.5 SOLID ROUND BAR	DIAGONAL, 2L 2 1/2 X 2 1/2 X 3/8	HORIZONTAL, 2L 2 1/2 X 2 1/2 X 3/8	INNER, 3 X 3 X 1/4	2 e 3/4"	8 e 1 1/4"
29 (GUY EAR)	Ø 6.5 SOLID ROUND BAR	DIAGONAL, 2L 2 1/2 X 2 1/2 X 3/8	HORIZONTAL, 2L 2 1/2 X 2 1/2 X 3/8 UPPER MID HORIZ, 2C 8 X 13.75# CHANNEL	INNER, 2 1/2 X 2 1/2 X 1/4	2 e 3/4"	8 e 1 1/4"
24, 25, 26, 31, 32	Ø 6.5 SOLID ROUND BAR	DIAGONAL, 2L 2 1/2 X 2 1/2 X 3/16	HORIZONTAL, 2L 2 1/2 X 2 1/2 X 3/16	INNER, 2 1/2 X 2 1/2 X 1/4	2 e 3/4"	8 e 1 1/4"
35 (GUY EAR)	Ø 6.5 SOLID ROUND BAR	DIAGONAL, 2L 2 1/2 X 2 1/2 X 3/8	HORIZONTAL, 2L 2 1/2 X 2 1/2 X 3/8 UPPER MID HORIZ, 2C 8 X 13.75# CHANNEL	INNER, 2 1/2 X 2 1/2 X 1/4	2 e 3/4"	8 e 1 1/4"
37, 38	Ø 6.0 SOLID ROUND BAR	DIAGONAL, 2L 2 1/2 X 2 1/2 X 3/8	HORIZONTAL, 2L 2 1/2 X 2 1/2 X 3/8	INNER, 2 1/2 X 2 1/2 X 1/4	2 e 3/4"	6 e 1"
39, 42	Ø 6.0 SOLID ROUND BAR	DIAGONAL, 2L 2 1/2 X 2 1/2 X 1/4	HORIZONTAL, 2L 2 1/2 X 2 1/2 X 1/4	INNER, 2 1/2 X 2 1/2 X 1/4	2 e 3/4"	8 e 1 1/4"
40	Ø 6.0 SOLID ROUND BAR	DIAGONAL, 2L 2 1/2 X 2 1/2 X 3/8	HORIZONTAL, 2L 2 1/2 X 2 1/2 X 3/8	INNER, 2 1/2 X 2 1/2 X 1/4	2 e 3/4"	8 e 1 1/4"
41 (GUY EAR)	Ø 6.0 SOLID ROUND BAR	DIAGONAL, 2L 2 1/2 X 2 1/2 X 3/8	HORIZONTAL, 2L 2 1/2 X 2 1/2 X 3/8 UPPER MID HORIZ, 2C 8 X 13.75# CHANNEL	INNER, 2 1/2 X 2 1/2 X 1/4	2 e 3/4"	8 e 1 1/4"
43	Ø 6.0 SOLID ROUND BAR	DIAGONAL, 2L 2 1/2 X 2 1/2 X 1/4	HORIZONTAL, 2L 2 1/2 X 2 1/2 X 1/4	INNER, 2 1/2 X 2 1/2 X 1/4	2 e 3/4"	8 e 1 1/4"
44, 45	Ø 5.5 SOLID ROUND BAR	DIAGONAL, 2L 2 1/2 X 2 1/2 X 3/16	HORIZONTAL, 2L 2 1/2 X 2 1/2 X 3/16	INNER, 2 1/2 X 2 1/2 X 1/4	2 e 3/4"	6 e 1 1/4"
46	Ø 5.5 SOLID ROUND BAR	DIAGONAL, 2L 2 1/2 X 2 1/2 X 1/4	HORIZONTAL, 2L 2 1/2 X 2 1/2 X 1/4	INNER, 2 1/2 X 2 1/2 X 1/4	2 e 3/4"	8 e 1 1/4"
47	Ø 5.5 SOLID ROUND BAR	DIAGONAL, 2L 2 1/2 X 2 1/2 X 3/8	HORIZONTAL, 2L 2 1/2 X 2 1/2 X 3/8	INNER, 3 X 3 X 1/4	2 e 3/4"	8 e 1 1/4"
48 (GUY EAR)	Ø 5.5 SOLID ROUND BAR	DIAGONAL, 2L 2 1/2 X 2 1/2 X 3/8	HORIZONTAL, 2L 2 1/2 X 2 1/2 X 3/8 UPPER MID HORIZ, 2C 8 X 13.75# CHANNEL	INNER, 2 1/2 X 2 1/2 X 1/4	2 e 3/4"	6 e 1"
49	Ø 5.0 SOLID ROUND BAR	DIAGONAL, 2L 2 1/2 X 2 1/2 X 1/4	HORIZONTAL, 2L 2 1/2 X 2 1/2 X 1/4	INNER, 2 1/2 X 2 1/2 X 1/4	2 e 3/4"	6 e 1 1/4"
50, 51, 52	Ø 5.0 SOLID ROUND BAR	DIAGONAL, 2L 2 1/2 X 2 1/2 X 3/16	HORIZONTAL, 2L 2 1/2 X 2 1/2 X 3/16	INNER, 2 1/2 X 2 1/2 X 1/4	2 e 3/4"	6 e 1 1/4"
53	Ø 5.0 SOLID ROUND BAR	DIAGONAL, 2L 2 1/2 X 2 1/2 X 1/4	HORIZONTAL, 2L 2 1/2 X 2 1/2 X 1/4	INNER, 2 1/2 X 2 1/2 X 1/4	2 e 3/4"	6 e 1 1/4"
54 (GUY EAR)	Ø 5.0 SOLID ROUND BAR	BOTTOM DIAG, 2L 2 1/2 X 2 1/2 X 3/8 TOP DIAG, 2L 4 X 4 X 3/8	HORIZONTAL, 2C 10 X 30#	-	2 e 1"	6 e 1"

PART NO.		TASHJIAN TOWER CORPORATION 2765 S. TEMPERANCE AVENUE, FOWLER, CALIF. 93625	
APPROVALS	DATE	TITLE	
DRAWN	TAM 10/23/18	1620' GUY TOWER ELEVATION	
CHECKED		KLFY, LAFAYETTE	
ENG. APPD.		SIZE	DRAWING NO.
DO NOT SCALE DRAWING		D	S-2
		SCALE NONE	SHEET 2 OF



**TASHJIAN
TOWERS
CORPORATION**

**STRUCTURAL ANALYSIS
REPORT NUMBER 3678**

1620' GUYED TOWER

LAFAYETTE, LA

November 2, 2018

By Karl Tashjian

Tashjian Towers Corporation

2765 S Temperance Ave, Fowler, California 93625

Ph. (559) 834-4300, Fax. (559) 834-4377

Checked by: Karl Tashjian

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AUTHORIZATION/PURPOSE

As authorized by KLFY, a structural analysis was performed to the 1620-ft guyed tower in Lafayette, LA. The purpose of this analysis was to determine if the tower is structurally adequate to support the existing and proposed appurtenances loading.

TOWER HISTORY

The three-sided 1620-ft tower was manufactured and designed by International Towers, Inc. This tower is composed of (53) 30-ft and (2) 15-ft sections. Each section is constructed of solid round legs and double angle braces. In addition, the tower is guyed in three different directions at 8 levels.

EXISTING AND PROPOSED APPURTENANCES

The analysis was performed to determine the feasibility of the tower to support the following appurtenance loading:

Table 1: Existing and proposed appurtenances loading

DESCRIPTION	QUANTITY	PLACEMENT (ft)	EPA (ft ²)	FEED LINE
RCA TW-12A10 & TAD-24UDE-5/60-MRST (DIELECTRIC DELTA STAR ANTENNA)	1	1619	290.0	(1) 4-1/16" (1) 7-3/16"
KLPB DIELECTRIC ANTENNA	1			
ERI 12-BAY FM ANTENNA	1	995 - 905	60.2	(1) 3-1/8"
30' WHIP ANTENNA	1	960	7.8	(1) 1-5/8"
10' GRID DISH	1	460	78.5	(1) 7/8"
10' RFS DISH	1	400	78.5	(1) EW63
MICROWAVE DISH	1	180	12.54	(1) CAT 5
PCS PANEL ANTENNA	1	180	5.5	(1) CAT 5
GPS	1	16	0.4	1/4"

ANALYSIS CRITERIA

The tower analysis was conducted in accordance with the TIA-222-H Revision of the *Structural Standard for Antenna Supporting Structures, Antennas and Small Wind Turbine Support Structures*. This analysis was performed using a Wind Exposure C and a basic wind speed of 127-mph and 30-mph, 3-second gust, with no ice and with 1.0-in ice thickness, respectively. In addition, the tower was categorized as a Risk Category II Structure, and it was assigned to a Topographic Category 1 with no crest height. The steel grade for leg members was determined to be 50-ksi and 36-ksi for all diagonal and horizontal braces. Tashjian Towers provided the original tower drawings. It is assumed that there are no appreciably damaged members and/or connections during the structural analysis.

ANALYSIS PROCEDURE

The tower was analyzed using a 3-dimensional non-linear analysis software, tnxTower Version 8.0.4.0, formerly known as RISA Tower. This software is created specifically to analyze communication towers and is the latest program available commercially. The tower was analyzed under the existing and proposed appurtenance loading.

ANALYSIS RESULTS

The tower, with the tabulated equipment in Table 1, **is structurally adequate** to resist a basic wind speed of 127-mph, 3-second gust, per the ANSI/TIA 222 Revision H Standard and ASCE 7-16. The structure is at **101.8%** of its capacity (see Table 2). Per ANSI/TIA 222 Revision H, the maximum allowable demand-capacity ratio, based on a comprehensive analysis, is 1.05 (105%); thus, the structure is structurally sound.

Table 2: Maximum demand-capacity ratio

MEMBER TYPE	ELEVATION (ft)	DEMAND/CAPACITY (%)
LEG	255 - 285	69.3
DIAGONAL	405 - 412.5	101.8
HORIZONTAL	105 - 135	63.7
BOLT	-	83.1
GUY CABLE	187.5 - 195	56.4

The tower deflection is calculated using a Service Wind Speed of 60-mph. Table 3 shows the maximum twist and sway deflections.

Table 3: Maximum tower deflection

ELEVATION (ft)	MAXIMUM SWAY (DEGREES)	MAXIMUM TWIST (DEGREES)
1545 - 1515	-	0.4259
1620 - 1612.5	0.1827	-

Table 4 summarizes the maximum load reactions at the base of the tower. These loads are computed using the ANSI/TIA 222 Revision H (LRFD) Load Combinations.

Table 4: Maximum base reactions summary

	BASE/FOUNDATION REACTIONS
MAX. DOWN FORCE	2975 kip
MAX. UPLIFT FORCE	0 kip
MAX. SHEAR FORCE	5 kip

CONCLUSIONS AND RECOMMENDATIONS

Based on the preceding results, the following conclusions may be drawn:

The tower is **structurally adequate** to support the specified equipment and a basic wind speed of 127-mph, 3-second gust, per the ANSI/TIA 222 Revision H Standard. The tower was assigned to a Topographic Category 1 with no crest height and a Wind Exposure C. Tashjian Towers recommends the following:

1. Tensioning of guy cables shall be per manufacturer's specifications
2. Install bolts required (see inspection report)
3. Repair or replace damaged members

PROVISIONS OF ANALYSIS

The analysis performed, and the conclusions contained herein are based on the assumption that the tower has been properly installed and maintained, including, but not limited to the following:

- a. Proper alignment and plumbness of the tower.
- b. Correct bolt tightness.
- c. No significant deterioration or damage to any component.

Furthermore, the information and conclusions contained in this Report were determined by application of the current "state-of-the-art" engineering and analysis procedures and formulae, and the engineer assumes no obligations to revise any of the information or conclusions contained in this Report in the event that such engineering and analysis procedures and formulae are hereafter modified or revised. In addition, under no circumstances will the engineer have any obligation or responsibility whatsoever for or on account of consequential or incidental damages sustained by any person, firm or organization as a result of any information or conclusions contained in the Report, and the maximum liability of engineer if any, pursuant to this Report shall be limited to the total funds actually received by the engineer for preparation of this Report.

Customer has requested the engineer to prepare and submit to Customer an engineering analysis with respect to the Subject tower and has further requested the engineer to make appropriate recommendations regarding suggested structural modifications and changes to the Subject tower. In making such request of the engineer, Customer has informed the engineer that Customer will make a determination as to whether or not to implement any of the changes or modifications which may be suggested by the engineer and that Customer will have any such changes or modifications made by riggers, erectors and other subcontractors of Customer's choice.

Customer hereby agrees and acknowledges that the engineer shall have no liability whatsoever to Customer or to others for any work or services performed by any persons other than the engineer in connection with the implementation of any structural changes or modifications recommended by the engineer including but not limited to any services rendered for Customer or for others by riggers, erectors or other subcontractors. Customer acknowledges and agrees that any riggers, erectors or subcontractors retained or employed by Customer shall be solely responsible to Customer and to others for the quality of work performed by them and that the engineer shall have no liability or responsibility whatsoever as a result of any negligence or breach of contract by any such rigger, erector or subcontractor and that Customer and rigger, erector, or subcontractor will provide the engineer with a Certificate of Insurance naming the engineer additionally insured.

REFERENCES

"ASCE 7 Hazard Tool." ASCE 7 Hazard Tool. Accessed November 1, 2018.
<https://asce7hazardtool.online/>.

Structural standard for antenna supporting structures and antennas and small wind turbine support structures. Arlington, VA: Telecommunications Industry Association, 2017.

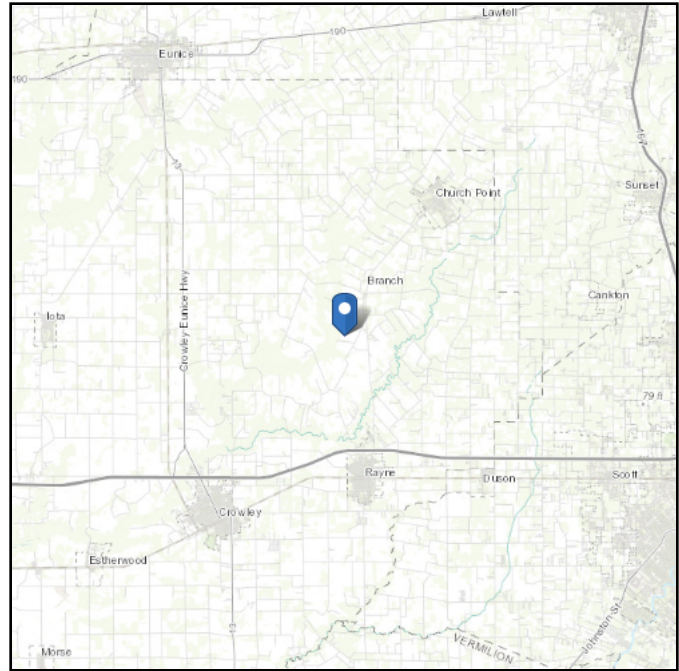
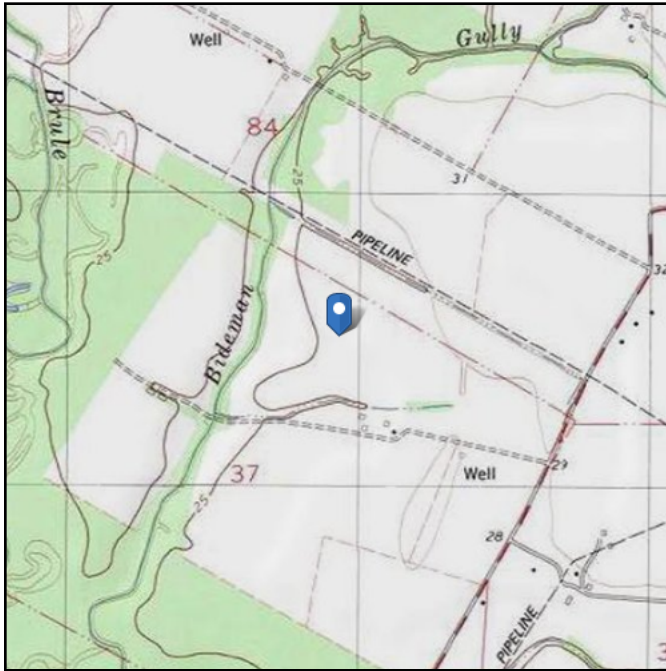
APPENDIX: ANALYSIS

ASCE 7 Hazards Report

Address:
No Address at This Location

Standard: ASCE/SEI 7-16
Risk Category: II
Soil Class: D - Default (see Section 11.4.3)

Elevation: 25.36 ft (NAVD 88)
Latitude: 30.322222
Longitude: -92.283056



Wind

Results:	75 Vmph
Wind Speed:	127 Vmph
10-year MRI	75 Vmph
25-year MRI	85 Vmph
50-year MRI	95 Vmph
100-year MRI	102 Vmph

Data Source: ASCE/SEI 7-16, Fig. 26.5-1B and Figs. CC.2-1–CC.2-4

Date Accessed: Thu Nov 01 2018

Value provided is 3-second gust wind speeds at 33 ft above ground for Exposure C Category, based on linear interpolation between contours. Wind speeds are interpolated in accordance with the 7-16 Standard. Wind speeds correspond to approximately a 7% probability of exceedance in 50 years (annual exceedance probability = 0.00143, MRI = 700 years).

Site is in a hurricane-prone region as defined in ASCE/SEI 7-16 Section 26.2. Glazed openings need not be protected against wind-borne debris.

Mountainous terrain, gorges, ocean promontories, and special wind regions should be examined for unusual wind conditions.

Ice

Results:

Ice Thickness: 1.00 in.

Concurrent Temperature: 15 F

Gust Speed: 30 mph

Data Source: Standard ASCE/SEI 7-16, Figs. 10-2 through 10-8

Date Accessed: Thu Nov 01 2018

Ice thicknesses on structures in exposed locations at elevations higher than the surrounding terrain and in valleys and gorges may exceed the mapped values.

Values provided are equivalent radial ice thicknesses due to freezing rain with concurrent 3-second gust speeds, for a 500-year mean recurrence interval, and temperatures concurrent with ice thicknesses due to freezing rain. Thicknesses for ice accretions caused by other sources shall be obtained from local meteorological studies. Ice thicknesses in exposed locations at elevations higher than the surrounding terrain and in valleys and gorges may exceed the mapped values.

The ASCE 7 Hazard Tool is provided for your convenience, for informational purposes only, and is provided "as is" and without warranties of any kind. The location data included herein has been obtained from information developed, produced, and maintained by third party providers; or has been extrapolated from maps incorporated in the ASCE 7 standard. While ASCE has made every effort to use data obtained from reliable sources or methodologies, ASCE does not make any representations or warranties as to the accuracy, completeness, reliability, currency, or quality of any data provided herein. Any third-party links provided by this Tool should not be construed as an endorsement, affiliation, relationship, or sponsorship of such third-party content by or from ASCE.

ASCE does not intend, nor should anyone interpret, the results provided by this Tool to replace the sound judgment of a competent professional, having knowledge and experience in the appropriate field(s) of practice, nor to substitute for the standard of care required of such professionals in interpreting and applying the contents of this Tool or the ASCE 7 standard.

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ANTENNA POLE - WIND LOAD ANALYSIS

Antenna Model: **RCA TW-12A10 & TAD-24UDE-5/60-MRST**

Weight:	41650	lbs
(EPA) _A :	290	ft ²

TIA-222-H	Wind Load Parameters		
Table 2-1	Risk Category =	II	
ANNEX B (ASCE 7-16 HAZARD TOOL)	$V_{Basic} =$	127	mph
Section-2.6.11 & Table 2-2	$K_d =$	0.85	
Section - 2.6.5.1.1	Exposure Category =	C	
Section - 2.6.6.2	$K_{zt} =$	1.0	
Section - 2.6.8	$K_e =$	1.0	
Section - 2.6.9.4	$G_h =$	0.85	
Section - 2.6.5.2	$K_z =$	2.01	
Section - 2.6.11.6	$q_z = 0.00256K_zK_{zt}K_eK_dV^2 =$	70.54	psf
Section - 2.6.11.2	$F_A = q_zG_h(EPA)_A$	17389.19	lbs
	Moment Arm =	45.7	ft
	Shear at base =	17.4	kip
	Moment at Base =	794.69	kip-ft

<p><i>tnxTower</i></p> <p>TASHJIAN TOWERS CORP. 2765 S. TEMPERANCE AVE. FOWLER, CA. 93625 Phone: (559) 834-4300 FAX: (559) 834-4377</p>	Job LAFAYETTE	Page 1 of 134
	Project 1620' GUYED TOWER	Date 11:40:25 11/02/18
	Client KLFY	Designed by M.C.

Tower Input Data

The main tower is a 3x guyed tower with an overall height of 1620' above the ground line.

The base of the tower is set at an elevation of 0' above the ground line.

The face width of the tower is 10' at the top and tapered at the base.

This tower is designed using the TIA-222-H standard.

The following design criteria apply:

Tower base elevation above sea level: 25'.

Basic wind speed of 127 mph.

Risk Category II.

Exposure Category C.

Simplified Topographic Factor Procedure for wind speed-up calculations is used.

Topographic Category: 1.

Crest Height 0'.

Nominal ice thickness of 1.000 in.

Ice thickness is considered to increase with height.

Ice density of 56 pcf.

A wind speed of 30 mph is used in combination with ice.

Temperature drop of 50 °F.

Deflections calculated using a wind speed of 60 mph.

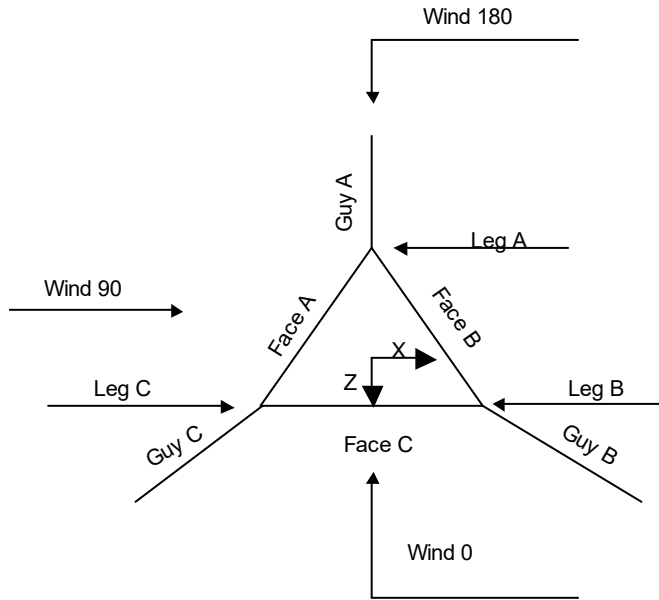
Pressures are calculated at each section.

Safety factor used in guy design is 1.

Stress ratio used in tower member design is 1.

Local bending stresses due to climbing loads, feed line supports, and appurtenance mounts are not considered.

tnxTower TASHJIAN TOWERS CORP. 2765 S. TEMPERANCE AVE. FOWLER, CA. 93625 Phone: (559) 834-4300 FAX: (559) 834-4377	Job LAFAYETTE	Page 2 of 134
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	Client KLFY	Designed by M.C.



Corner & Starmount Guyed Tower

Tower Section Geometry

Tower Section	Tower Elevation	Assembly Database	Description	Section Width	Number of Sections	Section Length
	<i>ft</i>			<i>ft</i>		<i>ft</i>
T1	1620'-1612'6"			10'	1	7'6"
T2	1612'6"-1605'			10'	1	7'6"
T3	1605'-1575'			10'	1	30'
T4	1575'-1545'			10'	1	30'
T5	1545'-1515'			10'	1	30'
T6	1515'-1485'			10'	1	30'
T7	1485'-1455'			10'	1	30'
T8	1455'-1447'6"			10'	1	7'6"
T9	1447'6"-1440'			10'	1	7'6"
T10	1440'-1432'6"			10'	1	7'6"
T11	1432'6"-1425'			10'	1	7'6"
T12	1425'-1395'			10'	1	30'
T13	1395'-1365'			10'	1	30'
T14	1365'-1335'			10'	1	30'
T15	1335'-1305'			10'	1	30'
T16	1305'-1275'			10'	1	30'
T17	1275'-1245'			10'	1	30'
T18	1245'-1237'6"			10'	1	7'6"
T19	1237'6"-1230'			10'	1	7'6"
T20	1230'-1222'6"			10'	1	7'6"
T21	1222'6"-1215'			10'	1	7'6"
T22	1215'-1185'			10'	1	30'

tnxTower TASHJIAN TOWERS CORP. 2765 S. TEMPERANCE AVE. FOWLER, CA. 93625 Phone: (559) 834-4300 FAX: (559) 834-4377	Job	LAFAYETTE	Page	3 of 134
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<i>Tower Section</i>	<i>Tower Elevation</i>	<i>Assembly Database</i>	<i>Description</i>	<i>Section Width</i>	<i>Number of Sections</i>	<i>Section Length</i>
	<i>ft</i>			<i>ft</i>		<i>ft</i>
T23	1185'-1155'			10'	1	30'
T24	1155'-1125'			10'	1	30'
T25	1125'-1095'			10'	1	30'
T26	1095'-1065'			10'	1	30'
T27	1065'-1057'6"			10'	1	7'6"
T28	1057'6"-1050'			10'	1	7'6"
T29	1050'-1042'6"			10'	1	7'6"
T30	1042'6"-1035'			10'	1	7'6"
T31	1035'-1005'			10'	1	30'
T32	1005'-975'			10'	1	30'
T33	975'-945'			10'	1	30'
T34	945'-915'			10'	1	30'
T35	915'-885'			10'	1	30'
T36	885'-877'6"			10'	1	7'6"
T37	877'6"-870'			10'	1	7'6"
T38	870'-862'6"			10'	1	7'6"
T39	862'6"-855'			10'	1	7'6"
T40	855'-825'			10'	1	30'
T41	825'-795'			10'	1	30'
T42	795'-765'			10'	1	30'
T43	765'-735'			10'	1	30'
T44	735'-705'			10'	1	30'
T45	705'-675'			10'	1	30'
T46	675'-645'			10'	1	30'
T47	645'-637'6"			10'	1	7'6"
T48	637'6"-630'			10'	1	7'6"
T49	630'-622'6"			10'	1	7'6"
T50	622'6"-615'			10'	1	7'6"
T51	615'-585'			10'	1	30'
T52	585'-555'			10'	1	30'
T53	555'-525'			10'	1	30'
T54	525'-495'			10'	1	30'
T55	495'-465'			10'	1	30'
T56	465'-435'			10'	1	30'
T57	435'-427'6"			10'	1	7'6"
T58	427'6"-420'			10'	1	7'6"
T59	420'-412'6"			10'	1	7'6"
T60	412'6"-405'			10'	1	7'6"
T61	405'-375'			10'	1	30'
T62	375'-345'			10'	1	30'
T63	345'-315'			10'	1	30'
T64	315'-285'			10'	1	30'
T65	285'-255'			10'	1	30'
T66	255'-225'			10'	1	30'
T67	225'-195'			10'	1	30'
T68	195'-187'6"			10'	1	7'6"
T69	187'6"-180'			10'	1	7'6"
T70	180'-172'6"			10'	1	7'6"
T71	172'6"-165'			10'	1	7'6"
T72	165'-135'			10'	1	30'
T73	135'-105'			10'	1	30'
T74	105'-75'			10'	1	30'
T75	75'-45'			10'	1	30'
T76	45'-37'6"			10'	1	7'6"
T77	37'6"-30'			10'	1	7'6"
T78	30'-22'6"			10'	1	7'6"
T79	22'6"-15'			10'	1	7'6"
T80	15'-0'			10'	1	15'

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	Project	1620' GUYED TOWER	Date	11:40:25 11/02/18
	Client	KLFY	Designed by	M.C.

Tower Section Geometry (cont'd)

Tower Section	Tower Elevation	Diagonal Spacing	Bracing Type	Has K Brace End Panels	Has Horizontals	Top Girt Offset	Bottom Girt Offset
	ft	ft				in	in
T1	1620'-1612'6"	7'6"	K Brace Down	No	Yes	0.000	0.000
T2	1612'6"-1605'	7'6"	K Brace Down	No	Yes	0.000	0.000
T3	1605'-1575'	7'6"	K Brace Down	No	Yes	0.000	0.000
T4	1575'-1545'	7'6"	K Brace Down	No	Yes	0.000	0.000
T5	1545'-1515'	7'6"	K Brace Down	No	Yes	0.000	0.000
T6	1515'-1485'	7'6"	K Brace Down	No	Yes	0.000	0.000
T7	1485'-1455'	7'6"	K Brace Down	No	Yes	0.000	0.000
T8	1455'-1447'6"	7'6"	K Brace Down	No	Yes	0.000	0.000
T9	1447'6"-1440'	7'6"	K Brace Down	No	Yes	0.000	0.000
T10	1440'-1432'6"	7'6"	K Brace Up	No	Yes	0.000	0.000
T11	1432'6"-1425'	7'6"	K Brace Down	No	Yes	0.000	0.000
T12	1425'-1395'	7'6"	K Brace Down	No	Yes	0.000	0.000
T13	1395'-1365'	7'6"	K Brace Down	No	Yes	0.000	0.000
T14	1365'-1335'	7'6"	K Brace Down	No	Yes	0.000	0.000
T15	1335'-1305'	7'6"	K Brace Down	No	Yes	0.000	0.000
T16	1305'-1275'	7'6"	K Brace Down	No	Yes	0.000	0.000
T17	1275'-1245'	7'6"	K Brace Down	No	Yes	0.000	0.000
T18	1245'-1237'6"	7'6"	K Brace Down	No	Yes	0.000	0.000
T19	1237'6"-1230'	7'6"	K Brace Down	No	Yes	0.000	0.000
T20	1230'-1222'6"	7'6"	K Brace Up	No	Yes	0.000	0.000
T21	1222'6"-1215'	7'6"	K Brace Down	No	Yes	0.000	0.000
T22	1215'-1185'	7'6"	K Brace Down	No	Yes	0.000	0.000
T23	1185'-1155'	7'6"	K Brace Down	No	Yes	0.000	0.000
T24	1155'-1125'	7'6"	K Brace Down	No	Yes	0.000	0.000
T25	1125'-1095'	7'6"	K Brace Down	No	Yes	0.000	0.000
T26	1095'-1065'	7'6"	K Brace Down	No	Yes	0.000	0.000
T27	1065'-1057'6"	7'6"	K Brace Down	No	Yes	0.000	0.000
T28	1057'6"-1050'	7'6"	K Brace Down	No	Yes	0.000	0.000
T29	1050'-1042'6"	7'6"	K Brace Up	No	Yes	0.000	0.000
T30	1042'6"-1035'	7'6"	K Brace Down	No	Yes	0.000	0.000
T31	1035'-1005'	7'6"	K Brace Down	No	Yes	0.000	0.000
T32	1005'-975'	7'6"	K Brace Down	No	Yes	0.000	0.000
T33	975'-945'	7'6"	K Brace Down	No	Yes	0.000	0.000
T34	945'-915'	7'6"	K Brace Down	No	Yes	0.000	0.000
T35	915'-885'	7'6"	K Brace Down	No	Yes	0.000	0.000
T36	885'-877'6"	7'6"	K Brace Down	No	Yes	0.000	0.000
T37	877'6"-870'	7'6"	K Brace Down	No	Yes	0.000	0.000
T38	870'-862'6"	7'6"	K Brace Up	No	Yes	0.000	0.000
T39	862'6"-855'	7'6"	K Brace Down	No	Yes	0.000	0.000
T40	855'-825'	7'6"	K Brace Down	No	Yes	0.000	0.000
T41	825'-795'	7'6"	K Brace Down	No	Yes	0.000	0.000
T42	795'-765'	7'6"	K Brace Down	No	Yes	0.000	0.000
T43	765'-735'	7'6"	K Brace Down	No	Yes	0.000	0.000
T44	735'-705'	7'6"	K Brace Down	No	Yes	0.000	0.000
T45	705'-675'	7'6"	K Brace Down	No	Yes	0.000	0.000
T46	675'-645'	7'6"	K Brace Down	No	Yes	0.000	0.000
T47	645'-637'6"	7'6"	K Brace Down	No	Yes	0.000	0.000
T48	637'6"-630'	7'6"	K Brace Up	No	Yes	0.000	0.000
T49	630'-622'6"	7'6"	K Brace Down	No	Yes	0.000	0.000
T50	622'6"-615'	7'6"	K Brace Down	No	Yes	0.000	0.000
T51	615'-585'	7'6"	K Brace Down	No	Yes	0.000	0.000
T52	585'-555'	7'6"	K Brace Down	No	Yes	0.000	0.000
T53	555'-525'	7'6"	K Brace Down	No	Yes	0.000	0.000
T54	525'-495'	7'6"	K Brace Down	No	Yes	0.000	0.000

tnxTower TASHJIAN TOWERS CORP. 2765 S. TEMPERANCE AVE. FOWLER, CA. 93625 Phone: (559) 834-4300 FAX: (559) 834-4377	Job LAFAYETTE	Page 5 of 134
	Project 1620' GUYED TOWER	Date 11:40:25 11/02/18
	Client KLFY	Designed by M.C.

Tower Section	Tower Elevation ft	Diagonal Spacing ft	Bracing Type	Has K Brace End Panels	Has Horizontals	Top Girt Offset in	Bottom Girt Offset in
T55	495'-465'	7'6"	K Brace Down	No	Yes	0.000	0.000
T56	465'-435'	7'6"	K Brace Down	No	Yes	0.000	0.000
T57	435'-427'6"	7'6"	K Brace Down	No	Yes	0.000	0.000
T58	427'6"-420'	7'6"	K Brace Down	No	Yes	0.000	0.000
T59	420'-412'6"	7'6"	K Brace Up	No	Yes	0.000	0.000
T60	412'6"-405'	7'6"	K Brace Down	No	Yes	0.000	0.000
T61	405'-375'	7'6"	K Brace Down	No	Yes	0.000	0.000
T62	375'-345'	7'6"	K Brace Down	No	Yes	0.000	0.000
T63	345'-315'	7'6"	K Brace Down	No	Yes	0.000	0.000
T64	315'-285'	7'6"	K Brace Down	No	Yes	0.000	0.000
T65	285'-255'	7'6"	K Brace Down	No	Yes	0.000	0.000
T66	255'-225'	7'6"	K Brace Down	No	Yes	0.000	0.000
T67	225'-195'	7'6"	K Brace Down	No	Yes	0.000	0.000
T68	195'-187'6"	7'6"	K Brace Up	No	Yes	0.000	0.000
T69	187'6"-180'	7'6"	K Brace Down	No	Yes	0.000	0.000
T70	180'-172'6"	7'6"	K Brace Down	No	Yes	0.000	0.000
T71	172'6"-165'	7'6"	K Brace Down	No	Yes	0.000	0.000
T72	165'-135'	7'6"	K Brace Down	No	Yes	0.000	0.000
T73	135'-105'	7'6"	K Brace Down	No	Yes	0.000	0.000
T74	105'-75'	7'6"	K Brace Down	No	Yes	0.000	0.000
T75	75'-45'	7'6"	K Brace Down	No	Yes	0.000	0.000
T76	45'-37'6"	7'6"	K Brace Down	No	Yes	0.000	0.000
T77	37'6"-30'	7'6"	K Brace Down	No	Yes	0.000	0.000
T78	30'-22'6"	7'6"	K Brace Down	No	Yes	0.000	0.000
T79	22'6"-15'	7'6"	K Brace Up	No	Yes	0.000	0.000
T80	15'-0'	5'	X Brace	No	Yes	0.000	0.000

Tower Section Geometry (cont'd)

Tower Elevation ft	Leg Type	Leg Size	Leg Grade	Diagonal Type	Diagonal Size	Diagonal Grade
T1 1620'-1612'6"	Solid Round	5	A572-50 (50 ksi)	Double Equal Angle	2L4x4x3/8x3/8	A36 (36 ksi)
T2 1612'6"-1605'	Solid Round	5	A572-50 (50 ksi)	Double Equal Angle	2L2 1/2x2 1/2x3/8x3/8	A36 (36 ksi)
T3 1605'-1575'	Solid Round	5	A572-50 (50 ksi)	Double Equal Angle	2L2 1/2x2 1/2x1/4x3/8	A36 (36 ksi)
T4 1575'-1545'	Solid Round	5	A572-50 (50 ksi)	Double Equal Angle	2L2 1/2x2 1/2x3/16x3/8	A36 (36 ksi)
T5 1545'-1515'	Solid Round	5	A572-50 (50 ksi)	Double Equal Angle	2L2 1/2x2 1/2x3/16x3/8	A36 (36 ksi)
T6 1515'-1485'	Solid Round	5	A572-50 (50 ksi)	Double Equal Angle	2L2 1/2x2 1/2x3/16x3/8	A36 (36 ksi)
T7 1485'-1455'	Solid Round	5	A572-50 (50 ksi)	Double Equal Angle	2L2 1/2x2 1/2x1/4x3/8	A36 (36 ksi)
T8 1455'-1447'6"	Solid Round	5 1/2	A572-50 (50 ksi)	Double Equal Angle	2L2 1/2x2 1/2x3/8x3/8	A36 (36 ksi)
T9 1447'6"-1440'	Solid Round	5 1/2	A572-50 (50 ksi)	Double Equal Angle	2L2 1/2x2 1/2x3/8x3/8	A36 (36 ksi)
T10 1440'-1432'6"	Solid Round	5 1/2	A572-50 (50 ksi)	Double Equal Angle	2L2 1/2x2 1/2x3/8x3/8	A36 (36 ksi)
T11 1432'6"-1425'	Solid Round	5 1/2	A572-50 (50 ksi)	Double Equal Angle	2L2 1/2x2 1/2x3/8x3/8	A36 (36 ksi)
T12 1425'-1395'	Solid Round	5 1/2	A572-50 (50 ksi)	Double Equal Angle	2L2 1/2x2 1/2x3/8x3/8	A36 (36 ksi)
T13 1395'-1365'	Solid Round	5 1/2	A572-50	Double Equal	2L2 1/2x2 1/2x1/4x3/8	A36

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	Client	KLFY	Designed by	M.C.

Tower Elevation ft	Leg Type	Leg Size	Leg Grade	Diagonal Type	Diagonal Size	Diagonal Grade
T14 1365'-1335'	Solid Round	5 1/2	(50 ksi) A572-50	Angle Double Equal	2L2 1/2x2 1/2x3/16x3/8	(36 ksi) A36
T15 1335'-1305'	Solid Round	5 1/2	(50 ksi) A572-50	Angle Double Equal	2L2 1/2x2 1/2x3/16x3/8	(36 ksi) A36
T16 1305'-1275'	Solid Round	6	(50 ksi) A572-50	Angle Double Equal	2L2 1/2x2 1/2x1/4x3/8	(36 ksi) A36
T17 1275'-1245'	Solid Round	6	(50 ksi) A572-50	Angle Double Equal	2L2 1/2x2 1/2x1/4x3/8	(36 ksi) A36
T18 1245'-1237'6"	Solid Round	6	(50 ksi) A572-50	Angle Double Equal	2L2 1/2x2 1/2x3/8x3/8	(36 ksi) A36
T19 1237'6"-1230'	Solid Round	6	(50 ksi) A572-50	Angle Double Equal	2L2 1/2x2 1/2x3/8x3/8	(36 ksi) A36
T20 1230'-1222'6"	Solid Round	6	(50 ksi) A572-50	Angle Double Equal	2L2 1/2x2 1/2x3/8x3/8	(36 ksi) A36
T21 1222'6"-1215'	Solid Round	6	(50 ksi) A572-50	Angle Double Equal	2L2 1/2x2 1/2x3/8x3/8	(36 ksi) A36
T22 1215'-1185'	Solid Round	6	(50 ksi) A572-50	Angle Double Equal	2L2 1/2x2 1/2x3/8x3/8	(36 ksi) A36
T23 1185'-1155'	Solid Round	6	(50 ksi) A572-50	Angle Double Equal	2L2 1/2x2 1/2x1/4x3/8	(36 ksi) A36
T24 1155'-1125'	Solid Round	6	(50 ksi) A572-50	Angle Double Equal	2L2 1/2x2 1/2x3/8x3/8	(36 ksi) A36
T25 1125'-1095'	Solid Round	6	(50 ksi) A572-50	Angle Double Equal	2L2 1/2x2 1/2x3/8x3/8	(36 ksi) A36
T26 1095'-1065'	Solid Round	6 1/2	(50 ksi) A572-50	Angle Double Equal	2L2 1/2x2 1/2x3/8x3/8	(36 ksi) A36
T27 1065'-1057'6"	Solid Round	6 1/2	(50 ksi) A572-50	Angle Double Equal	2L2 1/2x2 1/2x3/8x3/8	(36 ksi) A36
T28 1057'6"-1050'	Solid Round	6 1/2	(50 ksi) A572-50	Angle Double Equal	2L2 1/2x2 1/2x3/8x3/8	(36 ksi) A36
T29 1050'-1042'6"	Solid Round	6 1/2	(50 ksi) A572-50	Angle Double Equal	2L2 1/2x2 1/2x3/8x3/8	(36 ksi) A36
T30 1042'6"-1035'	Solid Round	6 1/2	(50 ksi) A572-50	Angle Double Equal	2L2 1/2x2 1/2x3/8x3/8	(36 ksi) A36
T31 1035'-1005'	Solid Round	6 1/2	(50 ksi) A572-50	Angle Double Equal	2L2 1/2x2 1/2x3/8x3/8	(36 ksi) A36
T32 1005'-975'	Solid Round	6 1/2	(50 ksi) A572-50	Angle Double Equal	2L2 1/2x2 1/2x3/8x3/8	(36 ksi) A36
T33 975'-945'	Solid Round	6 1/2	(50 ksi) A572-50	Angle Double Equal	2L2 1/2x2 1/2x3/16x3/8	(36 ksi) A36
T34 945'-915'	Solid Round	6 1/2	(50 ksi) A572-50	Angle Double Equal	2L2 1/2x2 1/2x3/16x3/8	(36 ksi) A36
T35 915'-885'	Solid Round	6 1/2	(50 ksi) A572-50	Angle Double Equal	2L2 1/2x2 1/2x3/8x3/8	(36 ksi) A36
T36 885'-877'6"	Solid Round	6 1/2	(50 ksi) A572-50	Angle Double Equal	2L2 1/2x2 1/2x3/8x3/8	(36 ksi) A36
T37 877'6"-870'	Solid Round	6 1/2	(50 ksi) A572-50	Angle Double Equal	2L2 1/2x2 1/2x3/8x3/8	(36 ksi) A36
T38 870'-862'6"	Solid Round	6 1/2	(50 ksi) A572-50	Angle Double Equal	2L2 1/2x2 1/2x3/8x3/8	(36 ksi) A36
T39 862'6"-855'	Solid Round	6 1/2	(50 ksi) A572-50	Angle Double Equal	2L2 1/2x2 1/2x3/8x3/8	(36 ksi) A36
T40 855'-825'	Solid Round	6 1/2	(50 ksi) A572-50	Angle Double Equal	2L2 1/2x2 1/2x3/8x3/8	(36 ksi) A36
T41 825'-795'	Solid Round	6 1/2	(50 ksi) A572-50	Angle Double Equal	2L2 1/2x2 1/2x3/8x3/8	(36 ksi) A36
T42 795'-765'	Solid Round	6 1/2	(50 ksi) A572-50	Angle Double Equal	2L2 1/2x2 1/2x3/16x3/8	(36 ksi) A36
T43 765'-735'	Solid Round	6 1/2	(50 ksi) A572-50	Angle Double Equal	2L2 1/2x2 1/2x3/16x3/8	(36 ksi) A36

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	Project	1620' GUYED TOWER		Date	11:40:25 11/02/18
	Client	KLFY		Designed by	M.C.

Tower Elevation ft	Leg Type	Leg Size	Leg Grade	Diagonal Type	Diagonal Size	Diagonal Grade
T44 735'-705'	Solid Round	6 1/2	A572-50 (50 ksi)	Double Equal Angle	2L2 1/2x2 1/2x3/16x3/8	A36 (36 ksi)
T45 705'-675'	Solid Round	6 1/2	A572-50 (50 ksi)	Double Equal Angle	2L2 1/2x2 1/2x3/8x3/8	A36 (36 ksi)
T46 675'-645'	Solid Round	7	A572-50 (50 ksi)	Double Equal Angle	2L2 1/2x2 1/2x3/8x3/8	A36 (36 ksi)
T47 645'-637'6"	Solid Round	7	A572-50 (50 ksi)	Double Equal Angle	2L2 1/2x2 1/2x3/8x3/8	A36 (36 ksi)
T48 637'6"-630'	Solid Round	7	A572-50 (50 ksi)	Double Equal Angle	2L2 1/2x2 1/2x3/8x3/8	A36 (36 ksi)
T49 630'-622'6"	Solid Round	7	A572-50 (50 ksi)	Double Equal Angle	2L2 1/2x2 1/2x3/8x3/8	A36 (36 ksi)
T50 622'6"-615'	Solid Round	7	A572-50 (50 ksi)	Double Equal Angle	2L2 1/2x2 1/2x3/8x3/8	A36 (36 ksi)
T51 615'-585'	Solid Round	7	A572-50 (50 ksi)	Double Equal Angle	2L2 1/2x2 1/2x3/8x3/8	A36 (36 ksi)
T52 585'-555'	Solid Round	7	A572-50 (50 ksi)	Double Equal Angle	2L2 1/2x2 1/2x1/4x3/8	A36 (36 ksi)
T53 555'-525'	Solid Round	7	A572-50 (50 ksi)	Double Equal Angle	2L2 1/2x2 1/2x3/16x3/8	A36 (36 ksi)
T54 525'-495'	Solid Round	7	A572-50 (50 ksi)	Double Equal Angle	2L2 1/2x2 1/2x3/16x3/8	A36 (36 ksi)
T55 495'-465'	Solid Round	7	A572-50 (50 ksi)	Double Equal Angle	2L2 1/2x2 1/2x1/4x3/8	A36 (36 ksi)
T56 465'-435'	Solid Round	7	A572-50 (50 ksi)	Double Equal Angle	2L2 1/2x2 1/2x3/8x3/8	A36 (36 ksi)
T57 435'-427'6"	Solid Round	7 1/2	A572-50 (50 ksi)	Double Equal Angle	2L2 1/2x2 1/2x3/8x3/8	A36 (36 ksi)
T58 427'6"-420'	Solid Round	7 1/2	A572-50 (50 ksi)	Double Equal Angle	2L2 1/2x2 1/2x3/8x3/8	A36 (36 ksi)
T59 420'-412'6"	Solid Round	7 1/2	A572-50 (50 ksi)	Double Equal Angle	2L2 1/2x2 1/2x3/8x3/8	A36 (36 ksi)
T60 412'6"-405'	Solid Round	7 1/2	A572-50 (50 ksi)	Double Equal Angle	2L2 1/2x2 1/2x3/8x3/8	A36 (36 ksi)
T61 405'-375'	Solid Round	7 1/2	A572-50 (50 ksi)	Double Equal Angle	2L2 1/2x2 1/2x3/8x3/8	A36 (36 ksi)
T62 375'-345'	Solid Round	7 1/2	A572-50 (50 ksi)	Double Equal Angle	2L2 1/2x2 1/2x3/8x3/8	A36 (36 ksi)
T63 345'-315'	Solid Round	7 1/2	A572-50 (50 ksi)	Double Equal Angle	2L2 1/2x2 1/2x3/16x3/8	A36 (36 ksi)
T64 315'-285'	Solid Round	7 1/2	A572-50 (50 ksi)	Double Equal Angle	2L2 1/2x2 1/2x3/16x3/8	A36 (36 ksi)
T65 285'-255'	Solid Round	7 1/2	A572-50 (50 ksi)	Double Equal Angle	2L2 1/2x2 1/2x3/16x3/8	A36 (36 ksi)
T66 255'-225'	Solid Round	7 1/2	A572-50 (50 ksi)	Double Equal Angle	2L2 1/2x2 1/2x3/16x3/8	A36 (36 ksi)
T67 225'-195'	Solid Round	7 1/2	A572-50 (50 ksi)	Double Equal Angle	2L2 1/2x2 1/2x3/16x3/8	A36 (36 ksi)
T68 195'-187'6"	Solid Round	7 1/2	A572-50 (50 ksi)	Double Equal Angle	2L2 1/2x2 1/2x3/8x3/8	A36 (36 ksi)
T69 187'6"-180'	Solid Round	7 1/2	A572-50 (50 ksi)	Double Equal Angle	2L2 1/2x2 1/2x3/8x3/8	A36 (36 ksi)
T70 180'-172'6"	Solid Round	7 1/2	A572-50 (50 ksi)	Double Equal Angle	2L2 1/2x2 1/2x3/8x3/8	A36 (36 ksi)
T71 172'6"-165'	Solid Round	7 1/2	A572-50 (50 ksi)	Double Equal Angle	2L2 1/2x2 1/2x3/8x3/8	A36 (36 ksi)
T72 165'-135'	Solid Round	7 1/2	A572-50 (50 ksi)	Double Equal Angle	2L2 1/2x2 1/2x3/16x3/8	A36 (36 ksi)
T73 135'-105'	Solid Round	7 1/2	A572-50 (50 ksi)	Double Equal Angle	2L2 1/2x2 1/2x3/16x3/8	A36 (36 ksi)
T74 105'-75'	Solid Round	7 1/2	A572-50	Double Equal	2L2 1/2x2 1/2x3/16x3/8	A36

tnxTower TASHJIAN TOWERS CORP. 2765 S. TEMPERANCE AVE. FOWLER, CA. 93625 Phone: (559) 834-4300 FAX: (559) 834-4377	Job	LAFAYETTE	Page	8 of 134
	Project	1620' GUYED TOWER	Date	11:40:25 11/02/18
	Client	KLFY	Designed by	M.C.

Tower Elevation ft	Leg Type	Leg Size	Leg Grade	Diagonal Type	Diagonal Size	Diagonal Grade
T75 75'-45'	Solid Round	7 1/2	(50 ksi) A572-50	Angle Double Equal	2L2 1/2x2 1/2x3/8x3/8	(36 ksi) A36
T76 45'-37'6"	Solid Round	7 1/2	(50 ksi) A572-50	Angle Double Equal	2L2 1/2x2 1/2x3/8x3/8	(36 ksi) A36
T77 37'6"-30'	Solid Round	7 1/2	(50 ksi) A572-50	Angle Double Equal	2L2 1/2x2 1/2x3/8x3/8	(36 ksi) A36
T78 30'-22'6"	Solid Round	7 1/2	(50 ksi) A572-50	Angle Double Equal	2L2 1/2x2 1/2x3/8x3/8	(36 ksi) A36
T79 22'6"-15'	Solid Round	7 1/2	(50 ksi) A572-50	Angle Double Equal	2L2 1/2x2 1/2x3/8x3/8	(36 ksi) A36
T80 15'-0'	Solid Round	7 1/2	(50 ksi) A572-50	Equal Angle	L4x4x1/2	(36 ksi) A36

Tower Section Geometry (cont'd)

Tower Elevation ft	Top Girt Type	Top Girt Size	Top Girt Grade	Bottom Girt Type	Bottom Girt Size	Bottom Girt Grade
T1 1620'-1612'6"	Double Channel	2C10x30x0.375	A36 (36 ksi)	Solid Round		A36 (36 ksi)
T2 1612'6"-1605'	Double Channel	2C10x30x0.375	A36 (36 ksi)	Solid Round		A36 (36 ksi)
T3 1605'-1575'	Double Equal Angle	2L2 1/2x2 1/2x1/4x3/8	A36 (36 ksi)	Solid Round		A36 (36 ksi)
T4 1575'-1545'	Double Equal Angle	2L2 1/2x2 1/2x3/16x3/8	A36 (36 ksi)	Solid Round		A36 (36 ksi)
T5 1545'-1515'	Double Equal Angle	2L2 1/2x2 1/2x3/16x3/8	A36 (36 ksi)	Solid Round		A36 (36 ksi)
T6 1515'-1485'	Double Equal Angle	2L2 1/2x2 1/2x3/16x3/8	A36 (36 ksi)	Solid Round		A36 (36 ksi)
T7 1485'-1455'	Double Equal Angle	2L2 1/2x2 1/2x1/4x3/8	A36 (36 ksi)	Solid Round		A36 (36 ksi)
T8 1455'-1447'6"	Double Equal Angle	2L2 1/2x2 1/2x3/8x3/8	A36 (36 ksi)	Solid Round		A36 (36 ksi)
T9 1447'6"-1440'	Double Equal Angle	2L2 1/2x2 1/2x3/8x3/8	A36 (36 ksi)	Solid Round		A36 (36 ksi)
T10 1440'-1432'6"	Double Equal Angle	2L2 1/2x2 1/2x3/8x3/8	A36 (36 ksi)	Solid Round		A36 (36 ksi)
T11 1432'6"-1425'	Double Equal Angle	2L2 1/2x2 1/2x3/8x3/8	A36 (36 ksi)	Solid Round		A36 (36 ksi)
T12 1425'-1395'	Double Equal Angle	2L2 1/2x2 1/2x3/8x3/8	A36 (36 ksi)	Solid Round		A36 (36 ksi)
T13 1395'-1365'	Double Equal Angle	2L2 1/2x2 1/2x1/4x3/8	A36 (36 ksi)	Solid Round		A36 (36 ksi)
T14 1365'-1335'	Double Equal Angle	2L2 1/2x2 1/2x3/16x3/8	A36 (36 ksi)	Solid Round		A36 (36 ksi)
T15 1335'-1305'	Double Equal Angle	2L2 1/2x2 1/2x3/16x3/8	A36 (36 ksi)	Solid Round		A36 (36 ksi)
T16 1305'-1275'	Double Equal Angle	2L2 1/2x2 1/2x1/4x3/8	A36 (36 ksi)	Solid Round		A36 (36 ksi)
T17 1275'-1245'	Double Equal Angle	2L2 1/2x2 1/2x1/4x3/8	A36 (36 ksi)	Solid Round		A36 (36 ksi)
T18 1245'-1237'6"	Double Equal Angle	2L2 1/2x2 1/2x3/8x3/8	A36 (36 ksi)	Solid Round		A36 (36 ksi)
T19	Double Equal	2L2 1/2x2 1/2x3/8x3/8	A36	Solid Round		A36

Job	LAFAYETTE	Page	9 of 134
Project	1620' GUYED TOWER	Date	11:40:25 11/02/18
Client	KLFY	Designed by	M.C.

Tower Elevation ft	Top Girt Type	Top Girt Size	Top Girt Grade	Bottom Girt Type	Bottom Girt Size	Bottom Girt Grade
1237'6"-1230'	Angle		(36 ksi)			(36 ksi)
T20	Double Equal	2L2 1/2x2 1/2x3/8x3/8	A36	Solid Round		A36
1230'-1222'6"	Angle		(36 ksi)			(36 ksi)
T21	Double Equal	2L2 1/2x2 1/2x3/8x3/8	A36	Solid Round		A36
1222'6"-1215'	Angle		(36 ksi)			(36 ksi)
T22 1215'-1185'	Double Equal	2L2 1/2x2 1/2x3/8x3/8	A36	Solid Round		A36
	Angle		(36 ksi)			(36 ksi)
T23 1185'-1155'	Double Equal	2L2 1/2x2 1/2x1/4x3/8	A36	Solid Round		A36
	Angle		(36 ksi)			(36 ksi)
T24 1155'-1125'	Double Equal	2L2 1/2x2 1/2x3/16x3/8	A36	Solid Round		A36
	Angle		(36 ksi)			(36 ksi)
T25 1125'-1095'	Double Equal	2L2 1/2x2 1/2x3/8x3/8	A36	Solid Round		A36
	Angle		(36 ksi)			(36 ksi)
T26 1095'-1065'	Double Equal	2L2 1/2x2 1/2x1/4x3/8	A36	Solid Round		A36
	Angle		(36 ksi)			(36 ksi)
T27	Double Equal	2L2 1/2x2 1/2x3/8x3/8	A36	Solid Round		A36
1065'-1057'6"	Angle		(36 ksi)			(36 ksi)
T28	Double Equal	2L2 1/2x2 1/2x3/8x3/8	A36	Solid Round		A36
1057'6"-1050'	Angle		(36 ksi)			(36 ksi)
T29	Double Equal	2L2 1/2x2 1/2x3/8x3/8	A36	Solid Round		A36
1050'-1042'6"	Angle		(36 ksi)			(36 ksi)
T30	Double Equal	2L2 1/2x2 1/2x3/8x3/8	A36	Solid Round		A36
1042'6"-1035'	Angle		(36 ksi)			(36 ksi)
T31 1035'-1005'	Double Equal	2L2 1/2x2 1/2x3/8x3/8	A36	Solid Round		A36
	Angle		(36 ksi)			(36 ksi)
T32 1005'-975'	Double Equal	2L2 1/2x2 1/2x1/4x3/8	A36	Solid Round		A36
	Angle		(36 ksi)			(36 ksi)
T33 975'-945'	Double Equal	2L2 1/2x2 1/2x3/16x3/8	A36	Solid Round		A36
	Angle		(36 ksi)			(36 ksi)
T34 945'-915'	Double Equal	2L2 1/2x2 1/2x3/16x3/8	A36	Solid Round		A36
	Angle		(36 ksi)			(36 ksi)
T35 915'-885'	Double Equal	2L2 1/2x2 1/2x1/4x3/8	A36	Solid Round		A36
	Angle		(36 ksi)			(36 ksi)
T36 885'-877'6"	Double Equal	2L2 1/2x2 1/2x3/8x3/8	A36	Solid Round		A36
	Angle		(36 ksi)			(36 ksi)
T37 877'6"-870'	Double Equal	2L2 1/2x2 1/2x3/8x3/8	A36	Solid Round		A36
	Angle		(36 ksi)			(36 ksi)
T38 870'-862'6"	Double Equal	2L2 1/2x2 1/2x3/8x3/8	A36	Solid Round		A36
	Angle		(36 ksi)			(36 ksi)
T39 862'6"-855'	Double Equal	2L2 1/2x2 1/2x3/8x3/8	A36	Solid Round		A36
	Angle		(36 ksi)			(36 ksi)
T40 855'-825'	Double Equal	2L2 1/2x2 1/2x3/8x3/8	A36	Solid Round		A36
	Angle		(36 ksi)			(36 ksi)
T41 825'-795'	Double Equal	2L2 1/2x2 1/2x1/4x3/8	A36	Solid Round		A36
	Angle		(36 ksi)			(36 ksi)
T42 795'-765'	Double Equal	2L2 1/2x2 1/2x3/16x3/8	A36	Solid Round		A36
	Angle		(36 ksi)			(36 ksi)
T43 765'-735'	Double Equal	2L2 1/2x2 1/2x3/16x3/8	A36	Solid Round		A36
	Angle		(36 ksi)			(36 ksi)
T44 735'-705'	Double Equal	2L2 1/2x2 1/2x3/16x3/8	A36	Solid Round		A36
	Angle		(36 ksi)			(36 ksi)
T45 705'-675'	Double Equal	2L2 1/2x2 1/2x1/4x3/8	A36	Solid Round		A36
	Angle		(36 ksi)			(36 ksi)
T46 675'-645'	Double Equal	2L2 1/2x2 1/2x3/8x3/8	A36	Solid Round		A36
	Angle		(36 ksi)			(36 ksi)
T47 645'-637'6"	Double Equal	2L2 1/2x2 1/2x3/8x3/8	A36	Solid Round		A36
	Angle		(36 ksi)			(36 ksi)
T48 637'6"-630'	Double Equal	2L2 1/2x2 1/2x3/8x3/8	A36	Solid Round		A36
	Angle		(36 ksi)			(36 ksi)
T49 630'-622'6"	Double Equal	2L2 1/2x2 1/2x3/8x3/8	A36	Solid Round		A36
	Angle		(36 ksi)			(36 ksi)

<p style="text-align: center;">tnxTower</p> <p>TASHJIAN TOWERS CORP. 2765 S. TEMPERANCE AVE. FOWLER, CA. 93625 Phone: (559) 834-4300 FAX: (559) 834-4377</p>	Job	LAFAYETTE	Page	10 of 134
	Project	1620' GUYED TOWER	Date	11:40:25 11/02/18
	Client	KLFY	Designed by	M.C.

Tower Elevation ft	Top Girt Type	Top Girt Size	Top Girt Grade	Bottom Girt Type	Bottom Girt Size	Bottom Girt Grade
T50 622'6"-615'	Double Equal Angle	2L2 1/2x2 1/2x3/8x3/8	A36 (36 ksi)	Solid Round		A36 (36 ksi)
T51 615'-585'	Double Equal Angle	2L2 1/2x2 1/2x3/8x3/8	A36 (36 ksi)	Solid Round		A36 (36 ksi)
T52 585'-555'	Double Equal Angle	2L2 1/2x2 1/2x1/4x3/8	A36 (36 ksi)	Solid Round		A36 (36 ksi)
T53 555'-525'	Double Equal Angle	2L2 1/2x2 1/2x3/16x3/8	A36 (36 ksi)	Solid Round		A36 (36 ksi)
T54 525'-495'	Double Equal Angle	2L2 1/2x2 1/2x3/16x3/8	A36 (36 ksi)	Solid Round		A36 (36 ksi)
T55 495'-465'	Double Equal Angle	2L2 1/2x2 1/2x1/4x3/8	A36 (36 ksi)	Solid Round		A36 (36 ksi)
T56 465'-435'	Double Equal Angle	2L2 1/2x2 1/2x3/8x3/8	A36 (36 ksi)	Solid Round		A36 (36 ksi)
T57 435'-427'6"	Double Equal Angle	2L2 1/2x2 1/2x3/8x3/8	A36 (36 ksi)	Solid Round		A36 (36 ksi)
T58 427'6"-420'	Double Equal Angle	2L2 1/2x2 1/2x3/8x3/8	A36 (36 ksi)	Solid Round		A36 (36 ksi)
T59 420'-412'6"	Double Equal Angle	2L2 1/2x2 1/2x3/8x3/8	A36 (36 ksi)	Solid Round		A36 (36 ksi)
T60 412'6"-405'	Double Equal Angle	2L2 1/2x2 1/2x3/8x3/8	A36 (36 ksi)	Solid Round		A36 (36 ksi)
T61 405'-375'	Double Equal Angle	2L2 1/2x2 1/2x3/8x3/8	A36 (36 ksi)	Solid Round		A36 (36 ksi)
T62 375'-345'	Double Equal Angle	2L2 1/2x2 1/2x3/8x3/8	A36 (36 ksi)	Solid Round		A36 (36 ksi)
T63 345'-315'	Double Equal Angle	2L2 1/2x2 1/2x1/4x3/8	A36 (36 ksi)	Solid Round		A36 (36 ksi)
T64 315'-285'	Double Equal Angle	2L2 1/2x2 1/2x3/16x3/8	A36 (36 ksi)	Solid Round		A36 (36 ksi)
T65 285'-255'	Double Equal Angle	2L2 1/2x2 1/2x3/16x3/8	A36 (36 ksi)	Solid Round		A36 (36 ksi)
T66 255'-225'	Double Equal Angle	2L2 1/2x2 1/2x3/16x3/8	A36 (36 ksi)	Solid Round		A36 (36 ksi)
T67 225'-195'	Double Equal Angle	2L2 1/2x2 1/2x1/4x3/8	A36 (36 ksi)	Solid Round		A36 (36 ksi)
T68 195'-187'6"	Double Equal Angle	2L2 1/2x2 1/2x3/8x3/8	A36 (36 ksi)	Solid Round		A36 (36 ksi)
T69 187'6"-180'	Double Equal Angle	2L2 1/2x2 1/2x3/8x3/8	A36 (36 ksi)	Solid Round		A36 (36 ksi)
T70 180'-172'6"	Double Equal Angle	2L2 1/2x2 1/2x3/8x3/8	A36 (36 ksi)	Solid Round		A36 (36 ksi)
T71 172'6"-165'	Double Equal Angle	2L2 1/2x2 1/2x3/8x3/8	A36 (36 ksi)	Solid Round		A36 (36 ksi)
T72 165'-135'	Double Equal Angle	2L2 1/2x2 1/2x1/4x3/8	A36 (36 ksi)	Solid Round		A36 (36 ksi)
T73 135'-105'	Double Equal Angle	2L2 1/2x2 1/2x3/16x3/8	A36 (36 ksi)	Solid Round		A36 (36 ksi)
T74 105'-75'	Double Equal Angle	2L2 1/2x2 1/2x3/16x3/8	A36 (36 ksi)	Solid Round		A36 (36 ksi)
T75 75'-45'	Double Equal Angle	2L2 1/2x2 1/2x1/4x3/8	A36 (36 ksi)	Solid Round		A36 (36 ksi)
T76 45'-37'6"	Double Equal Angle	2L2 1/2x2 1/2x3/8x3/8	A36 (36 ksi)	Solid Round		A36 (36 ksi)
T77 37'6"-30'	Double Channel	2C6x13x0.375	A36 (36 ksi)	Solid Round		A36 (36 ksi)
T78 30'-22'6"	Double Channel	2C10x30x0.375	A36 (36 ksi)	Solid Round		A36 (36 ksi)
T79 22'6"-15'	Double Equal Angle	2L2 1/2x2 1/2x3/8x3/8	A36 (36 ksi)	Solid Round		A36 (36 ksi)
T80 15'-0'	Double Equal	213x13x3/4x1/2	A36	Solid Round		A36

<p style="text-align: center;">tnxTower</p> <p>TASHJIAN TOWERS CORP. 2765 S. TEMPERANCE AVE. FOWLER, CA. 93625 Phone: (559) 834-4300 FAX: (559) 834-4377</p>	Job LAFAYETTE	Page 11 of 134
	Project 1620' GUYED TOWER	Date 11:40:25 11/02/18
	Client KLFY	Designed by M.C.

Tower Elevation ft	Top Girt Type	Top Girt Size	Top Girt Grade	Bottom Girt Type	Bottom Girt Size	Bottom Girt Grade
	Angle		(36 ksi)			(36 ksi)

Tower Section Geometry (cont'd)

Tower Elevation ft	No. of Mid Girts	Mid Girt Type	Mid Girt Size	Mid Girt Grade	Horizontal Type	Horizontal Size	Horizontal Grade
T1 1620'-1612'6"	None	Flat Bar		A36 (36 ksi)	Double Channel	2C10x30x0.375	A36 (36 ksi)
T2 1612'6"-1605'	None	Flat Bar		A36 (36 ksi)	Double Channel	2C10x30x0.375	A36 (36 ksi)
T3 1605'-1575'	None	Flat Bar		A36 (36 ksi)	Double Equal Angle	2L2 1/2x2 1/2x1/4x3/8	A36 (36 ksi)
T4 1575'-1545'	None	Flat Bar		A36 (36 ksi)	Double Equal Angle	2L2 1/2x2 1/2x3/16x3/8	A36 (36 ksi)
T5 1545'-1515'	None	Flat Bar		A36 (36 ksi)	Double Equal Angle	2L2 1/2x2 1/2x3/16x3/8	A36 (36 ksi)
T6 1515'-1485'	None	Flat Bar		A36 (36 ksi)	Double Equal Angle	2L2 1/2x2 1/2x3/16x3/8	A36 (36 ksi)
T7 1485'-1455'	None	Flat Bar		A36 (36 ksi)	Double Equal Angle	2L2 1/2x2 1/2x1/4x3/8	A36 (36 ksi)
T8 1455'-1447'6"	None	Flat Bar		A36 (36 ksi)	Double Equal Angle	2L2 1/2x2 1/2x3/8x3/8	A36 (36 ksi)
T9 1447'6"-1440'	None	Flat Bar		A36 (36 ksi)	Double Equal Angle	2L2 1/2x2 1/2x3/8x3/8	A36 (36 ksi)
T10 1440'-1432'6"	None	Flat Bar		A36 (36 ksi)	Double Equal Angle	2L2 1/2x2 1/2x3/8x3/8	A36 (36 ksi)
T11 1432'6"-1425'	None	Flat Bar		A36 (36 ksi)	Double Equal Angle	2L2 1/2x2 1/2x3/8x3/8	A36 (36 ksi)
T12 1425'-1395'	None	Flat Bar		A36 (36 ksi)	Double Equal Angle	2L2 1/2x2 1/2x3/8x3/8	A36 (36 ksi)
T13 1395'-1365'	None	Flat Bar		A36 (36 ksi)	Double Equal Angle	2L2 1/2x2 1/2x1/4x3/8	A36 (36 ksi)
T14 1365'-1335'	None	Flat Bar		A36 (36 ksi)	Double Equal Angle	2L2 1/2x2 1/2x3/16x3/8	A36 (36 ksi)
T15 1335'-1305'	None	Flat Bar		A36 (36 ksi)	Double Equal Angle	2L2 1/2x2 1/2x3/16x3/8	A36 (36 ksi)
T16 1305'-1275'	None	Flat Bar		A36 (36 ksi)	Double Equal Angle	2L2 1/2x2 1/2x1/4x3/8	A36 (36 ksi)
T17 1275'-1245'	None	Flat Bar		A36 (36 ksi)	Double Equal Angle	2L2 1/2x2 1/2x1/4x3/8	A36 (36 ksi)
T18 1245'-1237'6"	None	Flat Bar		A36 (36 ksi)	Double Equal Angle	2L2 1/2x2 1/2x3/8x3/8	A36 (36 ksi)
T19 1237'6"-1230'	None	Flat Bar		A36 (36 ksi)	Double Equal Angle	2L2 1/2x2 1/2x3/8x3/8	A36 (36 ksi)
T20 1230'-1222'6"	None	Flat Bar		A36 (36 ksi)	Double Equal Angle	2L2 1/2x2 1/2x3/8x3/8	A36 (36 ksi)
T21 1222'6"-1215'	None	Flat Bar		A36 (36 ksi)	Double Equal Angle	2L2 1/2x2 1/2x3/8x3/8	A36 (36 ksi)
T22 1215'-1185'	None	Flat Bar		A36 (36 ksi)	Double Equal Angle	2L2 1/2x2 1/2x3/8x3/8	A36 (36 ksi)
T23 1185'-1155'	None	Flat Bar		A36 (36 ksi)	Double Equal Angle	2L2 1/2x2 1/2x1/4x3/8	A36 (36 ksi)
T24 1155'-1125'	None	Flat Bar		A36 (36 ksi)	Double Equal Angle	2L2 1/2x2 1/2x3/16x3/8	A36 (36 ksi)

tnxTower TASHJIAN TOWERS CORP. 2765 S. TEMPERANCE AVE. FOWLER, CA. 93625 Phone: (559) 834-4300 FAX: (559) 834-4377	Job	LAFAYETTE	Page	12 of 134
	Project	1620' GUYED TOWER	Date	11:40:25 11/02/18
	Client	KLFY	Designed by	M.C.

Tower Elevation ft	No. of Mid Girts	Mid Girt Type	Mid Girt Size	Mid Girt Grade	Horizontal Type	Horizontal Size	Horizontal Grade
T25 1125'-1095'	None	Flat Bar		A36 (36 ksi)	Double Equal Angle	2L2 1/2x2 1/2x3/8x3/8	A36 (36 ksi)
T26 1095'-1065'	None	Flat Bar		A36 (36 ksi)	Double Equal Angle	2L2 1/2x2 1/2x1/4x3/8	A36 (36 ksi)
T27 1065'-1057'6"	None	Flat Bar		A36 (36 ksi)	Double Equal Angle	2L2 1/2x2 1/2x3/8x3/8	A36 (36 ksi)
T28 1057'6"-1050'	None	Flat Bar		A36 (36 ksi)	Double Equal Angle	2L2 1/2x2 1/2x3/8x3/8	A36 (36 ksi)
T29 1050'-1042'6"	None	Flat Bar		A36 (36 ksi)	Double Equal Angle	2L2 1/2x2 1/2x3/8x3/8	A36 (36 ksi)
T30 1042'6"-1035'	None	Flat Bar		A36 (36 ksi)	Double Equal Angle	2L2 1/2x2 1/2x3/8x3/8	A36 (36 ksi)
T31 1035'-1005'	None	Flat Bar		A36 (36 ksi)	Double Equal Angle	2L2 1/2x2 1/2x3/8x3/8	A36 (36 ksi)
T32 1005'-975'	None	Flat Bar		A36 (36 ksi)	Double Equal Angle	2L2 1/2x2 1/2x1/4x3/8	A36 (36 ksi)
T33 975'-945'	None	Flat Bar		A36 (36 ksi)	Double Equal Angle	2L2 1/2x2 1/2x3/16x3/8	A36 (36 ksi)
T34 945'-915'	None	Flat Bar		A36 (36 ksi)	Double Equal Angle	2L2 1/2x2 1/2x3/16x3/8	A36 (36 ksi)
T35 915'-885'	None	Flat Bar		A36 (36 ksi)	Double Equal Angle	2L2 1/2x2 1/2x1/4x3/8	A36 (36 ksi)
T36 885'-877'6"	None	Flat Bar		A36 (36 ksi)	Double Equal Angle	2L2 1/2x2 1/2x3/8x3/8	A36 (36 ksi)
T37 877'6"-870'	None	Flat Bar		A36 (36 ksi)	Double Equal Angle	2L2 1/2x2 1/2x3/8x3/8	A36 (36 ksi)
T38 870'-862'6"	None	Flat Bar		A36 (36 ksi)	Double Equal Angle	2L2 1/2x2 1/2x3/8x3/8	A36 (36 ksi)
T39 862'6"-855'	None	Flat Bar		A36 (36 ksi)	Double Equal Angle	2L2 1/2x2 1/2x3/8x3/8	A36 (36 ksi)
T40 855'-825'	None	Flat Bar		A36 (36 ksi)	Double Equal Angle	2L2 1/2x2 1/2x3/8x3/8	A36 (36 ksi)
T41 825'-795'	None	Flat Bar		A36 (36 ksi)	Double Equal Angle	2L2 1/2x2 1/2x1/4x3/8	A36 (36 ksi)
T42 795'-765'	None	Flat Bar		A36 (36 ksi)	Double Equal Angle	2L2 1/2x2 1/2x3/16x3/8	A36 (36 ksi)
T43 765'-735'	None	Flat Bar		A36 (36 ksi)	Double Equal Angle	2L2 1/2x2 1/2x3/16x3/8	A36 (36 ksi)
T44 735'-705'	None	Flat Bar		A36 (36 ksi)	Double Equal Angle	2L2 1/2x2 1/2x3/16x3/8	A36 (36 ksi)
T45 705'-675'	None	Flat Bar		A36 (36 ksi)	Double Equal Angle	2L2 1/2x2 1/2x1/4x3/8	A36 (36 ksi)
T46 675'-645'	None	Flat Bar		A36 (36 ksi)	Double Equal Angle	2L2 1/2x2 1/2x3/8x3/8	A36 (36 ksi)
T47 645'-637'6"	None	Flat Bar		A36 (36 ksi)	Double Equal Angle	2L2 1/2x2 1/2x3/8x3/8	A36 (36 ksi)
T48 637'6"-630'	None	Flat Bar		A36 (36 ksi)	Double Equal Angle	2L2 1/2x2 1/2x3/8x3/8	A36 (36 ksi)
T49 630'-622'6"	None	Flat Bar		A36 (36 ksi)	Double Equal Angle	2L2 1/2x2 1/2x3/8x3/8	A36 (36 ksi)
T50 622'6"-615'	None	Flat Bar		A36 (36 ksi)	Double Equal Angle	2L2 1/2x2 1/2x3/8x3/8	A36 (36 ksi)
T51 615'-585'	None	Flat Bar		A36 (36 ksi)	Double Equal Angle	2L2 1/2x2 1/2x3/8x3/8	A36 (36 ksi)
T52 585'-555'	None	Flat Bar		A36 (36 ksi)	Double Equal Angle	2L2 1/2x2 1/2x1/4x3/8	A36 (36 ksi)
T53 555'-525'	None	Flat Bar		A36 (36 ksi)	Double Equal Angle	2L2 1/2x2 1/2x3/16x3/8	A36 (36 ksi)
T54 525'-495'	None	Flat Bar		A36 (36 ksi)	Double Equal Angle	2L2 1/2x2 1/2x3/16x3/8	A36 (36 ksi)

<p style="text-align: center;"><i>tnxTower</i></p> <p>TASHJIAN TOWERS CORP. 2765 S. TEMPERANCE AVE. FOWLER, CA. 93625 Phone: (559) 834-4300 FAX: (559) 834-4377</p>	Job	LAFAYETTE	Page	13 of 134
	Project	1620' GUYED TOWER	Date	11:40:25 11/02/18
	Client	KLFY	Designed by	M.C.

<i>Tower Elevation</i> <i>ft</i>	<i>No. of Mid Girts</i>	<i>Mid Girt Type</i>	<i>Mid Girt Size</i>	<i>Mid Girt Grade</i>	<i>Horizontal Type</i>	<i>Horizontal Size</i>	<i>Horizontal Grade</i>
T55 495'-465'	None	Flat Bar		A36 (36 ksi)	Double Equal Angle	2L2 1/2x2 1/2x1/4x3/8	A36 (36 ksi)
T56 465'-435'	None	Flat Bar		A36 (36 ksi)	Double Equal Angle	2L2 1/2x2 1/2x3/8x3/8	A36 (36 ksi)
T57 435'-427'6"	None	Flat Bar		A36 (36 ksi)	Double Equal Angle	2L2 1/2x2 1/2x3/8x3/8	A36 (36 ksi)
T58 427'6"-420'	None	Flat Bar		A36 (36 ksi)	Double Equal Angle	2L2 1/2x2 1/2x3/8x3/8	A36 (36 ksi)
T59 420'-412'6"	None	Flat Bar		A36 (36 ksi)	Double Equal Angle	2L2 1/2x2 1/2x3/8x3/8	A36 (36 ksi)
T60 412'6"-405'	None	Flat Bar		A36 (36 ksi)	Double Equal Angle	2L2 1/2x2 1/2x3/8x3/8	A36 (36 ksi)
T61 405'-375'	None	Flat Bar		A36 (36 ksi)	Double Equal Angle	2L2 1/2x2 1/2x3/8x3/8	A36 (36 ksi)
T62 375'-345'	None	Flat Bar		A36 (36 ksi)	Double Equal Angle	2L2 1/2x2 1/2x3/8x3/8	A36 (36 ksi)
T63 345'-315'	None	Flat Bar		A36 (36 ksi)	Double Equal Angle	2L2 1/2x2 1/2x1/4x3/8	A36 (36 ksi)
T64 315'-285'	None	Flat Bar		A36 (36 ksi)	Double Equal Angle	2L2 1/2x2 1/2x3/16x3/8	A36 (36 ksi)
T65 285'-255'	None	Flat Bar		A36 (36 ksi)	Double Equal Angle	2L2 1/2x2 1/2x3/16x3/8	A36 (36 ksi)
T66 255'-225'	None	Flat Bar		A36 (36 ksi)	Double Equal Angle	2L2 1/2x2 1/2x3/16x3/8	A36 (36 ksi)
T67 225'-195'	None	Flat Bar		A36 (36 ksi)	Double Equal Angle	2L2 1/2x2 1/2x1/4x3/8	A36 (36 ksi)
T68 195'-187'6"	None	Flat Bar		A36 (36 ksi)	Double Equal Angle	2L2 1/2x2 1/2x3/8x3/8	A36 (36 ksi)
T69 187'6"-180'	None	Flat Bar		A36 (36 ksi)	Double Equal Angle	2L2 1/2x2 1/2x3/8x3/8	A36 (36 ksi)
T70 180'-172'6"	None	Flat Bar		A36 (36 ksi)	Double Equal Angle	2L2 1/2x2 1/2x3/8x3/8	A36 (36 ksi)
T71 172'6"-165'	None	Flat Bar		A36 (36 ksi)	Double Equal Angle	2L2 1/2x2 1/2x3/8x3/8	A36 (36 ksi)
T72 165'-135'	None	Flat Bar		A36 (36 ksi)	Double Equal Angle	2L2 1/2x2 1/2x1/4x3/8	A36 (36 ksi)
T73 135'-105'	None	Flat Bar		A36 (36 ksi)	Double Equal Angle	2L2 1/2x2 1/2x3/16x3/8	A36 (36 ksi)
T74 105'-75'	None	Flat Bar		A36 (36 ksi)	Double Equal Angle	2L2 1/2x2 1/2x3/16x3/8	A36 (36 ksi)
T75 75'-45'	None	Flat Bar		A36 (36 ksi)	Double Equal Angle	2L2 1/2x2 1/2x1/4x3/8	A36 (36 ksi)
T76 45'-37'6"	None	Flat Bar		A36 (36 ksi)	Double Equal Angle	2L2 1/2x2 1/2x3/8x3/8	A36 (36 ksi)
T77 37'6"-30'	None	Flat Bar		A36 (36 ksi)	Double Equal Angle	2L2 1/2x2 1/2x3/8x3/8	A36 (36 ksi)
T78 30'-22'6"	None	Flat Bar		A36 (36 ksi)	Double Equal Angle	2L2 1/2x2 1/2x3/8x3/8	A36 (36 ksi)
T79 22'6"-15'	None	Flat Bar		A36 (36 ksi)	Double Equal Angle	2L2 1/2x2 1/2x3/8x3/8	A36 (36 ksi)
T80 15'-0'	None	Flat Bar		A36 (36 ksi)	Double Equal Angle	2L4x4x1/2x3/8	A36 (36 ksi)

tnxTower TASHJIAN TOWERS CORP. 2765 S. TEMPERANCE AVE. FOWLER, CA. 93625 Phone: (559) 834-4300 FAX: (559) 834-4377	Job LAFAYETTE	Page 14 of 134
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Tower Section Geometry (cont'd)

Tower Elevation	Secondary Horizontal Type	Secondary Horizontal Size	Secondary Horizontal Grade	Inner Bracing Type	Inner Bracing Size	Inner Bracing Grade
<i>ft</i>						
T2 1612'6"-1605'	Solid Round		A572-50 (50 ksi)	Double Angle	2L2x2 1/2x1/4x3/8	A36 (36 ksi)
T3 1605'-1575'	Solid Round		A572-50 (50 ksi)	Double Angle	2L2x2 1/2x1/4x3/8	A36 (36 ksi)
T4 1575'-1545'	Solid Round		A572-50 (50 ksi)	Double Angle	2L2x2 1/2x1/4x3/8	A36 (36 ksi)
T5 1545'-1515'	Solid Round		A572-50 (50 ksi)	Double Angle	2L2x2 1/2x1/4x3/8	A36 (36 ksi)
T6 1515'-1485'	Solid Round		A572-50 (50 ksi)	Double Angle	2L2x2 1/2x1/4x3/8	A36 (36 ksi)
T7 1485'-1455'	Solid Round		A572-50 (50 ksi)	Double Angle	2L2x2 1/2x1/4x3/8	A36 (36 ksi)
T8 1455'-1447'6"	Solid Round		A572-50 (50 ksi)	Double Angle	2L2x2 1/2x1/4x3/8	A36 (36 ksi)
T9 1447'6"-1440'	Solid Round		A572-50 (50 ksi)	Double Angle	2L2x2 1/2x1/4x3/8	A36 (36 ksi)
T10 1440'-1432'6"	Solid Round		A572-50 (50 ksi)	Double Angle	2L2x2 1/2x1/4x3/8	A36 (36 ksi)
T11 1432'6"-1425'	Solid Round		A572-50 (50 ksi)	Double Angle	2L2x2 1/2x1/4x3/8	A36 (36 ksi)
T12 1425'-1395'	Solid Round		A572-50 (50 ksi)	Double Angle	2L2x2 1/2x1/4x3/8	A36 (36 ksi)
T13 1395'-1365'	Solid Round		A572-50 (50 ksi)	Double Angle	2L2x2 1/2x1/4x3/8	A36 (36 ksi)
T14 1365'-1335'	Solid Round		A572-50 (50 ksi)	Double Angle	2L2x2 1/2x1/4x3/8	A36 (36 ksi)
T15 1335'-1305'	Solid Round		A572-50 (50 ksi)	Double Angle	2L2x2 1/2x1/4x3/8	A36 (36 ksi)
T16 1305'-1275'	Solid Round		A572-50 (50 ksi)	Double Angle	2L2x2 1/2x1/4x3/8	A36 (36 ksi)
T17 1275'-1245'	Solid Round		A572-50 (50 ksi)	Double Angle	2L2x2 1/2x1/4x3/8	A36 (36 ksi)
T18 1245'-1237'6"	Solid Round		A572-50 (50 ksi)	Double Angle	2L2x2 1/2x1/4x3/8	A36 (36 ksi)
T19 1237'6"-1230'	Solid Round		A572-50 (50 ksi)	Double Angle	2L2x2 1/2x1/4x3/8	A36 (36 ksi)
T20 1230'-1222'6"	Solid Round		A572-50 (50 ksi)	Double Angle	2L2x2 1/2x1/4x3/8	A36 (36 ksi)
T21 1222'6"-1215'	Solid Round		A572-50 (50 ksi)	Double Angle	2L2x2 1/2x1/4x3/8	A36 (36 ksi)
T22 1215'-1185'	Solid Round		A572-50 (50 ksi)	Double Angle	2L2x2 1/2x1/4x3/8	A36 (36 ksi)
T23 1185'-1155'	Solid Round		A572-50 (50 ksi)	Double Angle	2L2x2 1/2x1/4x3/8	A36 (36 ksi)
T24 1155'-1125'	Solid Round		A572-50 (50 ksi)	Double Angle	2L2x2 1/2x1/4x3/8	A36 (36 ksi)
T25 1125'-1095'	Solid Round		A572-50 (50 ksi)	Double Angle	2L2x2 1/2x1/4x3/8	A36 (36 ksi)
T26 1095'-1065'	Solid Round		A572-50 (50 ksi)	Double Angle	2L2x2 1/2x1/4x3/8	A36 (36 ksi)
T27 1065'-1057'6"	Solid Round		A572-50 (50 ksi)	Double Angle	2L2x2 1/2x1/4x3/8	A36 (36 ksi)
T28 1057'6"-1050'	Solid Round		A572-50 (50 ksi)	Double Angle	2L2x2 1/2x1/4x3/8	A36 (36 ksi)
T29 1050'-1042'6"	Solid Round		A572-50 (50 ksi)	Double Angle	2L2x2 1/2x1/4x3/8	A36 (36 ksi)
T30 1042'6"-1035'	Solid Round		A572-50 (50 ksi)	Double Angle	2L2x2 1/2x1/4x3/8	A36 (36 ksi)

<p style="text-align: center;">tnxTower</p> <p style="text-align: center;">TASHJIAN TOWERS CORP. 2765 S. TEMPERANCE AVE. FOWLER, CA. 93625 Phone: (559) 834-4300 FAX: (559) 834-4377</p>	Job	LAFAYETTE	Page	15 of 134
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<i>Tower Elevation</i>	<i>Secondary Horizontal Type</i>	<i>Secondary Horizontal Size</i>	<i>Secondary Horizontal Grade</i>	<i>Inner Bracing Type</i>	<i>Inner Bracing Size</i>	<i>Inner Bracing Grade</i>
<i>ft</i>						
1042'6"-1035'			(50 ksi)			(36 ksi)
T31 1035'-1005'	Solid Round		A572-50	Double Angle	2L2x2 1/2x1/4x3/8	A36
			(50 ksi)			(36 ksi)
T32 1005'-975'	Solid Round		A572-50	Double Angle	2L2x2 1/2x1/4x3/8	A36
			(50 ksi)			(36 ksi)
T33 975'-945'	Solid Round		A572-50	Double Angle	2L2x2 1/2x1/4x3/8	A36
			(50 ksi)			(36 ksi)
T34 945'-915'	Solid Round		A572-50	Double Angle	2L2x2 1/2x1/4x3/8	A36
			(50 ksi)			(36 ksi)
T35 915'-885'	Solid Round		A572-50	Double Angle	2L2x2 1/2x1/4x3/8	A36
			(50 ksi)			(36 ksi)
T36 885'-877'6"	Solid Round		A572-50	Double Angle	2L2x2 1/2x1/4x3/8	A36
			(50 ksi)			(36 ksi)
T37 877'6"-870'	Solid Round		A572-50	Double Angle	2L2x2 1/2x1/4x3/8	A36
			(50 ksi)			(36 ksi)
T38 870'-862'6"	Solid Round		A572-50	Double Angle	2L2x2 1/2x1/4x3/8	A36
			(50 ksi)			(36 ksi)
T39 862'6"-855'	Solid Round		A572-50	Double Angle	2L2x2 1/2x1/4x3/8	A36
			(50 ksi)			(36 ksi)
T40 855'-825'	Solid Round		A572-50	Double Angle	2L2x2 1/2x1/4x3/8	A36
			(50 ksi)			(36 ksi)
T41 825'-795'	Solid Round		A572-50	Double Angle	2L2x2 1/2x1/4x3/8	A36
			(50 ksi)			(36 ksi)
T42 795'-765'	Solid Round		A572-50	Double Angle	2L2x2 1/2x1/4x3/8	A36
			(50 ksi)			(36 ksi)
T43 765'-735'	Solid Round		A572-50	Double Angle	2L2x2 1/2x1/4x3/8	A36
			(50 ksi)			(36 ksi)
T44 735'-705'	Solid Round		A572-50	Double Angle	2L2x2 1/2x1/4x3/8	A36
			(50 ksi)			(36 ksi)
T45 705'-675'	Solid Round		A572-50	Double Angle	2L2x2 1/2x1/4x3/8	A36
			(50 ksi)			(36 ksi)
T46 675'-645'	Solid Round		A572-50	Double Angle	2L2x2 1/2x1/4x3/8	A36
			(50 ksi)			(36 ksi)
T47 645'-637'6"	Solid Round		A572-50	Double Angle	2L2x2 1/2x1/4x3/8	A36
			(50 ksi)			(36 ksi)
T48 637'6"-630'	Solid Round		A572-50	Double Angle	2L2x2 1/2x1/4x3/8	A36
			(50 ksi)			(36 ksi)
T49 630'-622'6"	Solid Round		A572-50	Double Angle	2L2x2 1/2x1/4x3/8	A36
			(50 ksi)			(36 ksi)
T50 622'6"-615'	Solid Round		A572-50	Double Angle	2L2x2 1/2x1/4x3/8	A36
			(50 ksi)			(36 ksi)
T51 615'-585'	Solid Round		A572-50	Double Angle	2L2x2 1/2x1/4x3/8	A36
			(50 ksi)			(36 ksi)
T52 585'-555'	Solid Round		A572-50	Double Angle	2L2x2 1/2x1/4x3/8	A36
			(50 ksi)			(36 ksi)
T53 555'-525'	Solid Round		A572-50	Double Angle	2L2x2 1/2x1/4x3/8	A36
			(50 ksi)			(36 ksi)
T54 525'-495'	Solid Round		A572-50	Double Angle	2L2x2 1/2x1/4x3/8	A36
			(50 ksi)			(36 ksi)
T55 495'-465'	Solid Round		A572-50	Double Angle	2L2x2 1/2x1/4x3/8	A36
			(50 ksi)			(36 ksi)
T56 465'-435'	Solid Round		A572-50	Double Angle	2L2x2 1/2x1/4x3/8	A36
			(50 ksi)			(36 ksi)
T57 435'-427'6"	Solid Round		A572-50	Double Angle	2L2x2 1/2x1/4x3/8	A36
			(50 ksi)			(36 ksi)
T58 427'6"-420'	Solid Round		A572-50	Double Angle	2L2x2 1/2x1/4x3/8	A36
			(50 ksi)			(36 ksi)
T59 420'-412'6"	Solid Round		A572-50	Double Angle	2L2x2 1/2x1/4x3/8	A36
			(50 ksi)			(36 ksi)
T60 412'6"-405'	Solid Round		A572-50	Double Angle	2L2x2 1/2x1/4x3/8	A36

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Tower Elevation	Secondary Horizontal Type	Secondary Horizontal Size	Secondary Horizontal Grade	Inner Bracing Type	Inner Bracing Size	Inner Bracing Grade
<i>ft</i>			(50 ksi)			(36 ksi)
T61 405'-375'	Solid Round		A572-50	Double Angle	2L2x2 1/2x1/4x3/8	A36
T62 375'-345'	Solid Round		A572-50	Double Angle	2L2x2 1/2x1/4x3/8	A36
T63 345'-315'	Solid Round		A572-50	Double Angle	2L2x2 1/2x1/4x3/8	A36
T64 315'-285'	Solid Round		A572-50	Double Angle	2L2x2 1/2x1/4x3/8	A36
T65 285'-255'	Solid Round		A572-50	Double Angle	2L2x2 1/2x1/4x3/8	A36
T66 255'-225'	Solid Round		A572-50	Double Angle	2L2x2 1/2x1/4x3/8	A36
T67 225'-195'	Solid Round		A572-50	Double Angle	2L2x2 1/2x1/4x3/8	A36
T68 195'-187'6"	Solid Round		A572-50	Double Angle	2L2x2 1/2x1/4x3/8	A36
T69 187'6"-180'	Solid Round		A572-50	Double Angle	2L2x2 1/2x1/4x3/8	A36
T70 180'-172'6"	Solid Round		A572-50	Double Angle	2L2x2 1/2x1/4x3/8	A36
T71 172'6"-165'	Solid Round		A572-50	Double Angle	2L2x2 1/2x1/4x3/8	A36
T72 165'-135'	Solid Round		A572-50	Double Angle	2L2x2 1/2x1/4x3/8	A36
T73 135'-105'	Solid Round		A572-50	Double Angle	2L2x2 1/2x1/4x3/8	A36
T74 105'-75'	Solid Round		A572-50	Double Angle	2L2x2 1/2x1/4x3/8	A36
T75 75'-45'	Solid Round		A572-50	Double Angle	2L2x2 1/2x1/4x3/8	A36
T76 45'-37'6"	Solid Round		A572-50	Double Angle	2L2x2 1/2x1/4x3/8	A36
T77 37'6"-30'	Solid Round		A572-50	Double Angle	2L2x2 1/2x1/4x3/8	A36
T78 30'-22'6"	Solid Round		A572-50	Equal Angle	L3x3x1/4	A36
T79 22'6"-15'	Solid Round		A572-50	Equal Angle	L3x3x1/4	A36

Tower Section Geometry (cont'd)

Tower Elevation	Gusset Area (per face)	Gusset Thickness	Gusset Grade	Adjust. Factor A_f	Adjust. Factor A_r	Weight Mult.	Double Angle Stitch Bolt Spacing Diagonals	Double Angle Stitch Bolt Spacing Horizontals	Double Angle Stitch Bolt Spacing Redundants
<i>ft</i>	ft^2	<i>in</i>					<i>in</i>	<i>in</i>	<i>in</i>
T1 1620'-1612'6"	0.450	0.500	A36 (36 ksi)	1	1	1.05	Third-Pt	Mid-Pt	Mid-Pt
T2 1612'6"-1605'	0.450	0.500	A36 (36 ksi)	1	1	1.05	Mid-Pt	Mid-Pt	Mid-Pt
T3 1605'-1575'	0.450	0.500	A36 (36 ksi)	1	1	1.05	Mid-Pt	Mid-Pt	Mid-Pt
T4 1575'-1545'	0.450	0.500	A36 (36 ksi)	1	1	1.05	Mid-Pt	Mid-Pt	Mid-Pt

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Tower Elevation	Gusset Area (per face)	Gusset Thickness	Gusset Grade	Adjust. Factor A_f	Adjust. Factor A_r	Weight Mult.	Double Angle Stitch Bolt Spacing Diagonals in	Double Angle Stitch Bolt Spacing Horizontal in	Double Angle Stitch Bolt Spacing Redundants in
ft	ft ²	in							
T5 1545'-1515'	0.450	0.500	A36	1	1	1.05	Mid-Pt	Mid-Pt	Mid-Pt
			(36 ksi)						
T6 1515'-1485'	0.450	0.500	A36	1	1	1.05	Mid-Pt	Mid-Pt	Mid-Pt
			(36 ksi)						
T7 1485'-1455'	0.450	0.500	A36	1	1	1.05	Mid-Pt	Mid-Pt	Mid-Pt
			(36 ksi)						
T8 1455'-1447'6"	0.450	0.500	A36	1	1	1.05	Mid-Pt	Mid-Pt	Mid-Pt
			(36 ksi)						
T9 1447'6"-1440'	0.450	0.500	A36	1	1	1.05	Mid-Pt	Mid-Pt	Mid-Pt
			(36 ksi)						
T10 1440'-1432'6"	0.450	0.500	A36	1	1	1.05	Mid-Pt	Mid-Pt	Mid-Pt
			(36 ksi)						
T11 1432'6"-1425'	0.450	0.500	A36	1	1	1.05	Mid-Pt	Mid-Pt	Mid-Pt
			(36 ksi)						
T12 1425'-1395'	0.450	0.500	A36	1	1	1.05	Mid-Pt	Mid-Pt	Mid-Pt
			(36 ksi)						
T13 1395'-1365'	0.450	0.500	A36	1	1	1.05	Mid-Pt	Mid-Pt	Mid-Pt
			(36 ksi)						
T14 1365'-1335'	0.450	0.500	A36	1	1	1.05	Mid-Pt	Mid-Pt	Mid-Pt
			(36 ksi)						
T15 1335'-1305'	0.450	0.500	A36	1	1	1.05	Mid-Pt	Mid-Pt	Mid-Pt
			(36 ksi)						
T16 1305'-1275'	0.450	0.500	A36	1	1	1.05	Mid-Pt	Mid-Pt	Mid-Pt
			(36 ksi)						
T17 1275'-1245'	0.450	0.500	A36	1	1	1.05	Mid-Pt	Mid-Pt	Mid-Pt
			(36 ksi)						
T18 1245'-1237'6"	0.450	0.500	A36	1	1	1.05	Mid-Pt	Mid-Pt	Mid-Pt
			(36 ksi)						
T19 1237'6"-1230'	0.450	0.500	A36	1	1	1.05	Mid-Pt	Mid-Pt	Mid-Pt
			(36 ksi)						
T20 1230'-1222'6"	0.450	0.500	A36	1	1	1.05	Mid-Pt	Mid-Pt	Mid-Pt
			(36 ksi)						
T21 1222'6"-1215'	0.450	0.500	A36	1	1	1.05	Mid-Pt	Mid-Pt	Mid-Pt
			(36 ksi)						
T22 1215'-1185'	0.450	0.500	A36	1	1	1.05	Mid-Pt	Mid-Pt	Mid-Pt
			(36 ksi)						
T23 1185'-1155'	0.450	0.500	A36	1	1	1.05	Mid-Pt	Mid-Pt	Mid-Pt
			(36 ksi)						
T24 1155'-1125'	0.450	0.500	A36	1	1	1.05	Mid-Pt	Mid-Pt	Mid-Pt
			(36 ksi)						
T25 1125'-1095'	0.450	0.500	A36	1	1	1.05	Mid-Pt	Mid-Pt	Mid-Pt
			(36 ksi)						
T26 1095'-1065'	0.450	0.500	A36	1	1	1.05	Mid-Pt	Mid-Pt	Mid-Pt
			(36 ksi)						
T27 1065'-1057'6"	0.450	0.500	A36	1	1	1.05	Mid-Pt	Mid-Pt	Mid-Pt
			(36 ksi)						
T28 1057'6"-1050'	0.450	0.500	A36	1	1	1.05	Mid-Pt	Mid-Pt	Mid-Pt
			(36 ksi)						
T29 1050'-1042'6"	0.450	0.500	A36	1	1	1.05	Mid-Pt	Mid-Pt	Mid-Pt
			(36 ksi)						
T30 1042'6"-1035'	0.450	0.500	A36	1	1	1.05	Mid-Pt	Mid-Pt	Mid-Pt
			(36 ksi)						
T31 1035'-1005'	0.450	0.500	A36	1	1	1.05	Mid-Pt	Mid-Pt	Mid-Pt
			(36 ksi)						
T32 1005'-975'	0.450	0.500	A36	1	1	1.05	Mid-Pt	Mid-Pt	Mid-Pt
			(36 ksi)						
T33 975'-945'	0.450	0.500	A36	1	1	1.05	Mid-Pt	Mid-Pt	Mid-Pt
			(36 ksi)						
T34 945'-915'	0.450	0.500	A36	1	1	1.05	Mid-Pt	Mid-Pt	Mid-Pt

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	Client	KLFY	Designed by	M.C.

Tower Elevation	Gusset Area (per face)	Gusset Thickness	Gusset Grade	Adjust. Factor A_f	Adjust. Factor A_r	Weight Mult.	Double Angle Stitch Bolt Spacing Diagonals in	Double Angle Stitch Bolt Spacing Horizontal in	Double Angle Stitch Bolt Spacing Redundants in
ft	ft ²	in							
T35 915'-885'	0.450	0.500	(36 ksi) A36	1	1	1.05	Mid-Pt	Mid-Pt	Mid-Pt
T36 885'-877'6"	0.450	0.500	(36 ksi) A36	1	1	1.05	Mid-Pt	Mid-Pt	Mid-Pt
T37 877'6"-870'	0.450	0.500	(36 ksi) A36	1	1	1.05	Mid-Pt	Mid-Pt	Mid-Pt
T38 870'-862'6"	0.450	0.500	(36 ksi) A36	1	1	1.05	Mid-Pt	Mid-Pt	Mid-Pt
T39 862'6"-855'	0.450	0.500	(36 ksi) A36	1	1	1.05	Mid-Pt	Mid-Pt	Mid-Pt
T40 855'-825'	0.450	0.500	(36 ksi) A36	1	1	1.05	Mid-Pt	Mid-Pt	Mid-Pt
T41 825'-795'	0.450	0.500	(36 ksi) A36	1	1	1.05	Mid-Pt	Mid-Pt	Mid-Pt
T42 795'-765'	0.450	0.500	(36 ksi) A36	1	1	1.05	Mid-Pt	Mid-Pt	Mid-Pt
T43 765'-735'	0.450	0.500	(36 ksi) A36	1	1	1.05	Mid-Pt	Mid-Pt	Mid-Pt
T44 735'-705'	0.450	0.500	(36 ksi) A36	1	1	1.05	Mid-Pt	Mid-Pt	Mid-Pt
T45 705'-675'	0.450	0.500	(36 ksi) A36	1	1	1.05	Mid-Pt	Mid-Pt	Mid-Pt
T46 675'-645'	0.450	0.500	(36 ksi) A36	1	1	1.05	Mid-Pt	Mid-Pt	Mid-Pt
T47 645'-637'6"	0.450	0.500	(36 ksi) A36	1	1	1.05	Mid-Pt	Mid-Pt	Mid-Pt
T48 637'6"-630'	0.450	0.500	(36 ksi) A36	1	1	1.05	Mid-Pt	Mid-Pt	Mid-Pt
T49 630'-622'6"	0.450	0.500	(36 ksi) A36	1	1	1.05	Mid-Pt	Mid-Pt	Mid-Pt
T50 622'6"-615'	0.450	0.500	(36 ksi) A36	1	1	1.05	Mid-Pt	Mid-Pt	Mid-Pt
T51 615'-585'	0.450	0.500	(36 ksi) A36	1	1	1.05	Mid-Pt	Mid-Pt	Mid-Pt
T52 585'-555'	0.450	0.500	(36 ksi) A36	1	1	1.05	Mid-Pt	Mid-Pt	Mid-Pt
T53 555'-525'	0.450	0.500	(36 ksi) A36	1	1	1.05	Mid-Pt	Mid-Pt	Mid-Pt
T54 525'-495'	0.450	0.500	(36 ksi) A36	1	1	1.05	Mid-Pt	Mid-Pt	Mid-Pt
T55 495'-465'	0.450	0.500	(36 ksi) A36	1	1	1.05	Mid-Pt	Mid-Pt	Mid-Pt
T56 465'-435'	0.450	0.500	(36 ksi) A36	1	1	1.05	Mid-Pt	Mid-Pt	Mid-Pt
T57 435'-427'6"	0.450	0.500	(36 ksi) A36	1	1	1.05	Mid-Pt	Mid-Pt	Mid-Pt
T58 427'6"-420'	0.450	0.500	(36 ksi) A36	1	1	1.05	Mid-Pt	Mid-Pt	Mid-Pt
T59 420'-412'6"	0.450	0.500	(36 ksi) A36	1	1	1.05	Third-Pt	Mid-Pt	Mid-Pt
T60 412'6"-405'	0.450	0.500	(36 ksi) A36	1	1	1.05	Third-Pt	Mid-Pt	Mid-Pt
T61 405'-375'	0.450	0.500	(36 ksi) A36	1	1	1.05	Mid-Pt	Mid-Pt	Mid-Pt
T62 375'-345'	0.450	0.500	(36 ksi) A36	1	1	1.05	Mid-Pt	Mid-Pt	Mid-Pt
T63 345'-315'	0.450	0.500	(36 ksi) A36	1	1	1.05	Mid-Pt	Mid-Pt	Mid-Pt

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	Project 1620' GUYED TOWER	Date 11:40:25 11/02/18
	Client KLFY	Designed by M.C.

Tower Elevation	Gusset Area (per face)	Gusset Thickness	Gusset Grade	Adjust. Factor A_f	Adjust. Factor A_r	Weight Mult.	Double Angle Stitch Bolt Spacing Diagonals in	Double Angle Stitch Bolt Spacing Horizontals in	Double Angle Stitch Bolt Spacing Redundants in
ft	ft ²	in							
T64 315'-285'	0.450	0.500	A36 (36 ksi)	1	1	1.05	Mid-Pt	Mid-Pt	Mid-Pt
T65 285'-255'	0.450	0.500	A36 (36 ksi)	1	1	1.05	Mid-Pt	Mid-Pt	Mid-Pt
T66 255'-225'	0.450	0.500	A36 (36 ksi)	1	1	1.05	Mid-Pt	Mid-Pt	Mid-Pt
T67 225'-195'	0.450	0.500	A36 (36 ksi)	1	1	1.05	Mid-Pt	Mid-Pt	Mid-Pt
T68 195'-187'6"	0.450	0.500	A36 (36 ksi)	1	1	1.05	Mid-Pt	Mid-Pt	Mid-Pt
T69 187'6"-180'	0.450	0.500	A36 (36 ksi)	1	1	1.05	Mid-Pt	Mid-Pt	Mid-Pt
T70 180'-172'6"	0.450	0.500	A36 (36 ksi)	1	1	1.05	Mid-Pt	Mid-Pt	Mid-Pt
T71 172'6"-165'	0.450	0.500	A36 (36 ksi)	1	1	1.05	Mid-Pt	Mid-Pt	Mid-Pt
T72 165'-135'	0.450	0.500	A36 (36 ksi)	1	1	1.05	Mid-Pt	Mid-Pt	Mid-Pt
T73 135'-105'	0.450	0.500	A36 (36 ksi)	1	1	1.05	Mid-Pt	Mid-Pt	Mid-Pt
T74 105'-75'	0.450	0.500	A36 (36 ksi)	1	1	1.05	Mid-Pt	Mid-Pt	Mid-Pt
T75 75'-45'	0.450	0.500	A36 (36 ksi)	1	1	1.05	Mid-Pt	Mid-Pt	Mid-Pt
T76 45'-37'6"	0.450	0.500	A36 (36 ksi)	1	1	1.05	Mid-Pt	Mid-Pt	Mid-Pt
T77 37'6"-30'	0.450	0.500	A36 (36 ksi)	1	1	1.05	Mid-Pt	Mid-Pt	Mid-Pt
T78 30'-22'6"	0.450	0.500	A36 (36 ksi)	1	1	1.05	Mid-Pt	Mid-Pt	Mid-Pt
T79 22'6"-15'	0.450	0.500	A36 (36 ksi)	1	1	1.05	Mid-Pt	Mid-Pt	Mid-Pt
T80 15'-0'	0.450	0.500	A36 (36 ksi)	1	1	1.05	Mid-Pt	Mid-Pt	Mid-Pt

Tower Section Geometry (cont'd)

Tower Elevation	Calc K Single Angles	Calc K Solid Rounds	Legs	K Factors ¹							
				X Brace Diags	K Brace Diags	Single Diags	Girts	Horiz.	Sec. Horiz.	Inner Brace	
											X
ft				Y	Y	Y	Y	Y	Y	Y	
T1 1620'-1612'6"	Yes	No	1	1	1	1	1	1	1	1	1
T2 1612'6"-1605'	Yes	No	1	1	1	1	1	1	1	1	1
T3 1605'-1575'	Yes	No	1	1	1	1	1	1	1	1	1
T4 1575'-1545'	Yes	No	1	1	1	1	1	1	1	1	1
T5 1545'-1515'	Yes	No	1	1	1	1	1	1	1	1	1
T6 1515'-1485'	Yes	No	1	1	1	1	1	1	1	1	1

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	Project 1620' GUYED TOWER	Date 11:40:25 11/02/18
	Client KLFY	Designed by M.C.

Tower Elevation	Calc K Single Angles	Calc K Solid Rounds	K Factors ¹								
			Legs	X Brace Diags	K Brace Diags	Single Diags	Girts	Horiz.	Sec. Horiz.	Inner Brace	
				X Y	X Y	X Y	X Y	X Y	X Y	X Y	
T7	Yes	No	1	1	1	1	1	1	1	1	1
1485'-1455'				1	1	1	1	1	1	1	1
T8	Yes	No	1	1	1	1	1	1	1	1	1
1455'-1447'6"				1	1	1	1	1	1	1	1
T9	Yes	No	1	1	1	1	1	1	1	1	1
1447'6"-1440'				1	1	1	1	1	1	1	1
T10	Yes	No	1	1	1	1	1	1	1	1	1
1440'-1432'6"				1	1	1	1	1	1	1	1
T11	Yes	No	1	1	1	1	1	1	1	1	1
1432'6"-1425'				1	1	1	1	1	1	1	1
T12	Yes	No	1	1	1	1	1	1	1	1	1
1425'-1395'				1	1	1	1	1	1	1	1
T13	Yes	No	1	1	1	1	1	1	1	1	1
1395'-1365'				1	1	1	1	1	1	1	1
T14	Yes	No	1	1	1	1	1	1	1	1	1
1365'-1335'				1	1	1	1	1	1	1	1
T15	Yes	No	1	1	1	1	1	1	1	1	1
1335'-1305'				1	1	1	1	1	1	1	1
T16	Yes	No	1	1	1	1	1	1	1	1	1
1305'-1275'				1	1	1	1	1	1	1	1
T17	Yes	No	1	1	1	1	1	1	1	1	1
1275'-1245'				1	1	1	1	1	1	1	1
T18	Yes	No	1	1	1	1	1	1	1	1	1
1245'-1237'6"				1	1	1	1	1	1	1	1
T19	Yes	No	1	1	1	1	1	1	1	1	1
1237'6"-1230'				1	1	1	1	1	1	1	1
T20	Yes	No	1	1	1	1	1	1	1	1	1
1230'-1222'6"				1	1	1	1	1	1	1	1
T21	Yes	No	1	1	1	1	1	1	1	1	1
1222'6"-1215'				1	1	1	1	1	1	1	1
T22	Yes	No	1	1	1	1	1	1	1	1	1
1215'-1185'				1	1	1	1	1	1	1	1
T23	Yes	No	1	1	1	1	1	1	1	1	1
1185'-1155'				1	1	1	1	1	1	1	1
T24	Yes	No	1	1	1	1	1	1	1	1	1
1155'-1125'				1	1	1	1	1	1	1	1
T25	Yes	No	1	1	1	1	1	1	1	1	1
1125'-1095'				1	1	1	1	1	1	1	1
T26	Yes	No	1	1	1	1	1	1	1	1	1
1095'-1065'				1	1	1	1	1	1	1	1
T27	Yes	No	1	1	1	1	1	1	1	1	1
1065'-1057'6"				1	1	1	1	1	1	1	1
T28	Yes	No	1	1	1	1	1	1	1	1	1
1057'6"-1050'				1	1	1	1	1	1	1	1
T29	Yes	No	1	1	1	1	1	1	1	1	1
1050'-1042'6"				1	1	1	1	1	1	1	1
T30	Yes	No	1	1	1	1	1	1	1	1	1
1042'6"-1035'				1	1	1	1	1	1	1	1
T31	Yes	No	1	1	1	1	1	1	1	1	1
1035'-1005'				1	1	1	1	1	1	1	1
T32	Yes	No	1	1	1	1	1	1	1	1	1
1005'-975'				1	1	1	1	1	1	1	1
T33 975'-945'	Yes	No	1	1	1	1	1	1	1	1	1
T34 945'-915'	Yes	No	1	1	1	1	1	1	1	1	1
T35 915'-885'	Yes	No	1	1	1	1	1	1	1	1	1

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	Project 1620' GUYED TOWER	Date 11:40:25 11/02/18
	Client KLFY	Designed by M.C.

Tower Elevation ft	Calc K Single Angles	Calc K Solid Rounds	K Factors ¹								
			Legs	X Brace Diags	K Brace Diags	Single Diags	Girts	Horiz.	Sec. Horiz.	Inner Brace	
			X Y	X Y	X Y	X Y	X Y	X Y	X Y	X Y	
T36 885'-877'6"	Yes	No	1	1	1	1	1	1	1	1	1
T37 877'6"-870'	Yes	No	1	1	1	1	1	1	1	1	1
T38 870'-862'6"	Yes	No	1	1	1	1	1	1	1	1	1
T39 862'6"-855'	Yes	No	1	1	1	1	1	1	1	1	1
T40 855'-825'	Yes	No	1	1	1	1	1	1	1	1	1
T41 825'-795'	Yes	No	1	1	1	1	1	1	1	1	1
T42 795'-765'	Yes	No	1	1	1	1	1	1	1	1	1
T43 765'-735'	Yes	No	1	1	1	1	1	1	1	1	1
T44 735'-705'	Yes	No	1	1	1	1	1	1	1	1	1
T45 705'-675'	Yes	No	1	1	1	1	1	1	1	1	1
T46 675'-645'	Yes	No	1	1	1	1	1	1	1	1	1
T47 645'-637'6"	Yes	No	1	1	1	1	1	1	1	1	1
T48 637'6"-630'	Yes	No	1	1	1	1	1	1	1	1	1
T49 630'-622'6"	Yes	No	1	1	1	1	1	1	1	1	1
T50 622'6"-615'	Yes	No	1	1	1	1	1	1	1	1	1
T51 615'-585'	Yes	No	1	1	1	1	1	1	1	1	1
T52 585'-555'	Yes	No	1	1	1	1	1	1	1	1	1
T53 555'-525'	Yes	No	1	1	1	1	1	1	1	1	1
T54 525'-495'	Yes	No	1	1	1	1	1	1	1	1	1
T55 495'-465'	Yes	No	1	1	1	1	1	1	1	1	1
T56 465'-435'	Yes	No	1	1	1	1	1	1	1	1	1
T57 435'-427'6"	Yes	No	1	1	1	1	1	1	1	1	1
T58 427'6"-420'	Yes	No	1	1	1	1	1	1	1	1	1
T59 420'-412'6"	No	No	1	1	0.9178	1	1	1	1	1	1
T60 412'6"-405'	No	No	1	1	0.9178	1	1	1	1	1	1
T61 405'-375'	Yes	No	1	1	1	1	1	1	1	1	1
T62 375'-345'	Yes	No	1	1	1	1	1	1	1	1	1
T63 345'-315'	Yes	No	1	1	1	1	1	1	1	1	1
T64 315'-285'	Yes	No	1	1	1	1	1	1	1	1	1

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	Project 1620' GUYED TOWER	Date 11:40:25 11/02/18
	Client KLFY	Designed by M.C.

Tower Elevation ft	Calc K Single Angles	Calc K Solid Rounds	K Factors ¹								
			Legs	X Brace Diags	K Brace Diags	Single Diags	Girts	Horiz.	Sec. Horiz.	Inner Brace	
			X Y	X Y	X Y	X Y	X Y	X Y	X Y	X Y	
T65 285'-255'	Yes	No	1	1	1	1	1	1	1	1	1
T66 255'-225'	Yes	No	1	1	1	1	1	1	1	1	1
T67 225'-195'	Yes	No	1	1	1	1	1	1	1	1	1
T68 195'-187'6"	Yes	No	1	1	1	1	1	1	1	1	1
T69 187'6"-180'	Yes	No	1	1	1	1	1	1	1	1	1
T70 180'-172'6"	Yes	No	1	1	1	1	1	1	1	1	1
T71 172'6"-165'	Yes	No	1	1	1	1	1	1	1	1	1
T72 165'-135'	Yes	No	1	1	1	1	1	1	1	1	1
T73 135'-105'	Yes	No	1	1	1	1	1	1	1	1	1
T74 105'-75'	Yes	No	1	1	1	1	1	1	1	1	1
T75 75'-45'	Yes	No	1	1	1	1	1	1	1	1	1
T76 45'-37'6"	Yes	No	1	1	1	1	1	1	1	1	1
T77 37'6"-30'	Yes	No	1	1	1	1	1	1	1	1	1
T78 30'-22'6"	Yes	No	1	1	1	1	1	1	1	1	1
T79 22'6"-15'	Yes	No	1	1	1	1	1	1	1	1	1
T80 15'-0'	Yes	No	1	1	1	1	1	1	1	1	1

¹Note: K factors are applied to member segment lengths. K-braces without inner supporting members will have the K factor in the out-of-plane direction applied to the overall length.

Tower Section Geometry (cont'd)

Tower Elevation ft	Leg Connection Type	Leg		Diagonal		Top Girt		Bottom Girt		Mid Girt		Long Horizontal		Short Horizontal	
		Bolt Size in	No.	Bolt Size in	No.	Bolt Size in	No.	Bolt Size in	No.	Bolt Size in	No.	Bolt Size in	No.	Bolt Size in	No.
T1 1620'-1612'6"	Flange	1.000 A325N	0	0.750 A325N	2	0.750 A325N	2	0.000 A325N	0	0.625 A325N	0	0.750 A325N	2	0.625 A325N	0
T2 1612'6"-1605'	Flange	1.000 A325N	6	0.750 A325N	2	0.750 A325N	2	0.625 A325N	0	0.625 A325N	0	0.750 A325N	2	0.625 A325N	0
T3 1605'-1575'	Flange	1.250 A325N	6	0.750 A325N	2	0.750 A325N	2	0.625 A325N	0	0.625 A325N	0	0.750 A325N	2	0.625 A325N	0
T4 1575'-1545'	Flange	1.250 A325N	6	0.750 A325N	2	0.750 A325N	2	0.625 A325N	0	0.625 A325N	0	0.750 A325N	2	0.625 A325N	0
T5 1545'-1515'	Flange	1.250 A325N	6	0.750 A325N	2	0.750 A325N	2	0.625 A325N	0	0.625 A325N	0	0.750 A325N	2	0.625 A325N	0
T6 1515'-1485'	Flange	1.250 A325N	6	0.750 A325N	2	0.750 A325N	2	0.625 A325N	0	0.625 A325N	0	0.750 A325N	2	0.625 A325N	0
T7 1485'-1455'	Flange	1.250 A325N	6	0.750 A325N	2	0.750 A325N	2	0.625 A325N	0	0.625 A325N	0	0.750 A325N	2	0.625 A325N	0

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Project	1620' GUYED TOWER	Date	11:40:25 11/02/18
Client	KLFY	Designed by	M.C.

Tower Elevation ft	Leg Connection Type	Leg		Diagonal		Top Girt		Bottom Girt		Mid Girt		Long Horizontal		Short Horizontal	
		Bolt Size in	No.	Bolt Size in	No.	Bolt Size in	No.	Bolt Size in	No.	Bolt Size in	No.	Bolt Size in	No.	Bolt Size in	No.
T8	Flange	1.000	0	0.750	2	0.750	2	0.000	0	0.625	0	0.750	2	0.625	0
1455'-1447'6"		A325N		A325N		A325N		A325N		A325N		A325N		A325N	
T9	Flange	1.000	0	0.750	2	0.750	2	0.000	0	0.625	0	0.750	2	0.625	0
1447'6"-1440'		A325N		A325N		A325N		A325N		A325N		A325N		A325N	
T10	Flange	1.000	0	0.750	2	0.750	2	0.000	0	0.625	0	0.750	2	0.625	0
1440'-1432'6"		A325N		A325N		A325N		A325N		A325N		A325N		A325N	
T11	Flange	1.000	6	0.750	2	0.750	2	0.625	0	0.625	0	0.750	2	0.625	0
1432'6"-1425'		A325N		A325N		A325N		A325N		A325N		A325N		A325N	
T12	Flange	1.250	8	0.750	2	0.750	2	0.625	0	0.625	0	0.750	2	0.625	0
1425'-1395'		A325N		A325N		A325N		A325N		A325N		A325N		A325N	
T13	Flange	1.250	8	0.750	2	0.750	2	0.625	0	0.625	0	0.750	2	0.625	0
1395'-1365'		A325N		A325N		A325N		A325N		A325N		A325N		A325N	
T14	Flange	1.250	8	0.750	2	0.750	2	0.625	0	0.625	0	0.750	2	0.625	0
1365'-1335'		A325N		A325N		A325N		A325N		A325N		A325N		A325N	
T15	Flange	1.250	8	0.750	2	0.750	2	0.625	0	0.625	0	0.750	2	0.625	0
1335'-1305'		A325N		A325N		A325N		A325N		A325N		A325N		A325N	
T16	Flange	1.250	8	0.750	2	0.750	2	0.625	0	0.625	0	0.750	2	0.625	0
1305'-1275'		A325N		A325N		A325N		A325N		A325N		A325N		A325N	
T17	Flange	1.250	8	0.750	2	0.750	2	0.625	0	0.625	0	0.750	2	0.625	0
1275'-1245'		A325N		A325N		A325N		A325N		A325N		A325N		A325N	
T18	Flange	1.250	8	0.750	2	0.750	2	0.625	0	0.625	0	0.750	2	0.625	0
1245'-1237'6"		A325N		A325N		A325N		A325N		A325N		A325N		A325N	
T19	Flange	1.250	8	0.750	2	0.750	2	0.625	0	0.625	0	0.750	2	0.625	0
1237'6"-1230'		A325N		A325N		A325N		A325N		A325N		A325N		A325N	
T20	Flange	1.250	8	0.750	2	0.750	2	0.625	0	0.625	0	0.750	2	0.625	0
1230'-1222'6"		A325N		A325N		A325N		A325N		A325N		A325N		A325N	
T21	Flange	1.250	8	0.750	2	0.750	2	0.625	0	0.625	0	0.750	2	0.625	0
1222'6"-1215'		A325N		A325N		A325N		A325N		A325N		A325N		A325N	
T22	Flange	1.250	8	0.750	2	0.750	2	0.625	0	0.625	0	0.750	2	0.625	0
1215'-1185'		A325N		A325N		A325N		A325N		A325N		A325N		A325N	
T23	Flange	1.250	8	0.750	2	0.750	2	0.625	0	0.625	0	0.750	2	0.625	0
1185'-1155'		A325N		A325N		A325N		A325N		A325N		A325N		A325N	
T24	Flange	1.250	0	0.750	2	0.750	2	0.000	0	0.625	0	0.750	2	0.625	0
1155'-1125'		A325N		A325N		A325N		A325N		A325N		A325N		A325N	
T25	Flange	1.250	0	0.750	2	0.750	2	0.000	0	0.625	0	0.750	2	0.625	0
1125'-1095'		A325N		A325N		A325N		A325N		A325N		A325N		A325N	
T26	Flange	1.250	0	0.750	2	0.750	2	0.000	0	0.625	0	0.750	2	0.625	0
1095'-1065'		A325N		A325N		A325N		A325N		A325N		A325N		A325N	
T27	Flange	1.250	8	0.750	2	0.750	2	0.625	0	0.625	0	0.750	2	0.625	0
1065'-1057'6"		A325N		A325N		A325N		A325N		A325N		A325N		A325N	
T28	Flange	1.250	8	0.750	2	0.750	2	0.625	0	0.625	0	0.750	2	0.625	0
1057'6"-1050'		A325N		A325N		A325N		A325N		A325N		A325N		A325N	
T29	Flange	1.250	8	0.750	2	0.750	2	0.625	0	0.625	0	0.750	2	0.625	0
1050'-1042'6"		A325N		A325N		A325N		A325N		A325N		A325N		A325N	
T30	Flange	1.250	8	0.750	2	0.750	2	0.625	0	0.625	0	0.750	2	0.625	0
1042'6"-1035'		A325N		A325N		A325N		A325N		A325N		A325N		A325N	
T31	Flange	1.250	8	0.750	2	0.750	2	0.625	0	0.625	0	0.750	2	0.625	0
1035'-1005'		A325N		A325N		A325N		A325N		A325N		A325N		A325N	
T32	Flange	1.250	8	0.750	2	0.750	2	0.625	0	0.625	0	0.750	2	0.625	0
1005'-975'		A325N		A325N		A325N		A325N		A325N		A325N		A325N	
T33	Flange	1.250	0	0.750	2	0.750	2	0.000	0	0.625	0	0.750	2	0.625	0
975'-945'		A325N		A325N		A325N		A325N		A325N		A325N		A325N	
T34	Flange	1.250	0	0.750	2	0.750	2	0.000	0	0.625	0	0.750	2	0.625	0
945'-915'		A325N		A325N		A325N		A325N		A325N		A325N		A325N	
T35	Flange	1.250	0	0.750	2	0.750	2	0.000	0	0.625	0	0.750	2	0.625	0
915'-885'		A325N		A325N		A325N		A325N		A325N		A325N		A325N	
T36	Flange	1.250	8	0.750	2	0.750	2	0.625	0	0.625	0	0.750	2	0.625	0
885'-877'6"		A325N		A325N		A325N		A325N		A325N		A325N		A325N	

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	Project 1620' GUYED TOWER	Date 11:40:25 11/02/18
	Client KLFY	Designed by M.C.

Tower Elevation ft	Leg Connection Type	Leg		Diagonal		Top Girt		Bottom Girt		Mid Girt		Long Horizontal		Short Horizontal	
		Bolt Size in	No.	Bolt Size in	No.	Bolt Size in	No.	Bolt Size in	No.	Bolt Size in	No.	Bolt Size in	No.	Bolt Size in	No.
T37	Flange	1.250	8	0.750	2	0.750	2	0.625	0	0.625	0	0.750	2	0.625	0
877'6"-870'		A325N		A325N		A325N		A325N		A325N		A325N		A325N	
T38	Flange	1.250	8	0.750	2	0.750	2	0.625	0	0.625	0	0.750	2	0.625	0
870'-862'6"		A325N		A325N		A325N		A325N		A325N		A325N		A325N	
T39	Flange	1.250	8	0.750	2	0.750	2	0.625	0	0.625	0	0.750	2	0.625	0
862'6"-855'		A325N		A325N		A325N		A325N		A325N		A325N		A325N	
T40	Flange	1.250	8	0.750	2	0.750	2	0.625	0	0.625	0	0.750	2	0.625	0
855'-825'		A325N		A325N		A325N		A325N		A325N		A325N		A325N	
T41	Flange	1.250	8	0.750	2	0.750	2	0.625	0	0.625	0	0.750	2	0.625	0
825'-795'		A325N		A325N		A325N		A325N		A325N		A325N		A325N	
T42	Flange	1.250	8	0.750	2	0.750	2	0.625	0	0.625	0	0.750	2	0.625	0
795'-765'		A325N		A325N		A325N		A325N		A325N		A325N		A325N	
T43	Flange	1.250	8	0.750	2	0.750	2	0.625	0	0.625	0	0.750	2	0.625	0
765'-735'		A325N		A325N		A325N		A325N		A325N		A325N		A325N	
T44	Flange	1.250	0	0.750	2	0.750	2	0.000	0	0.625	0	0.750	2	0.625	0
735'-705'		A325N		A325N		A325N		A325N		A325N		A325N		A325N	
T45	Flange	1.250	0	0.750	2	0.750	2	0.000	0	0.625	0	0.750	2	0.625	0
705'-675'		A325N		A325N		A325N		A325N		A325N		A325N		A325N	
T46	Flange	1.250	0	0.750	2	0.750	2	0.000	0	0.625	0	0.750	2	0.625	0
675'-645'		A325N		A325N		A325N		A325N		A325N		A325N		A325N	
T47	Flange	1.250	8	0.750	2	0.750	2	0.625	0	0.625	0	0.750	2	0.625	0
645'-637'6"		A325N		A325N		A325N		A325N		A325N		A325N		A325N	
T48	Flange	1.250	8	0.750	2	0.750	2	0.625	0	0.625	0	0.750	2	0.625	0
637'6"-630'		A325N		A325N		A325N		A325N		A325N		A325N		A325N	
T49	Flange	1.250	8	0.750	2	0.750	2	0.625	0	0.625	0	0.750	2	0.625	0
630'-622'6"		A325N		A325N		A325N		A325N		A325N		A325N		A325N	
T50	Flange	1.250	8	0.750	2	0.750	2	0.625	0	0.625	0	0.750	2	0.625	0
622'6"-615'		A325N		A325N		A325N		A325N		A325N		A325N		A325N	
T51	Flange	1.250	8	0.750	2	0.750	2	0.625	0	0.625	0	0.750	2	0.625	0
615'-585'		A325N		A325N		A325N		A325N		A325N		A325N		A325N	
T52	Flange	1.250	8	0.750	2	0.750	2	0.625	0	0.625	0	0.750	2	0.625	0
585'-555'		A325N		A325N		A325N		A325N		A325N		A325N		A325N	
T53	Flange	1.250	8	0.750	2	0.750	2	0.625	0	0.625	0	0.750	2	0.625	0
555'-525'		A325N		A325N		A325N		A325N		A325N		A325N		A325N	
T54	Flange	1.250	0	0.750	2	0.750	2	0.000	0	0.625	0	0.750	2	0.625	0
525'-495'		A325N		A325N		A325N		A325N		A325N		A325N		A325N	
T55	Flange	1.250	0	0.750	2	0.750	2	0.000	0	0.625	0	0.750	2	0.625	0
495'-465'		A325N		A325N		A325N		A325N		A325N		A325N		A325N	
T56	Flange	1.250	0	0.750	2	0.750	2	0.000	0	0.625	0	0.750	2	0.625	0
465'-435'		A325N		A325N		A325N		A325N		A325N		A325N		A325N	
T57	Flange	1.250	8	0.750	2	0.750	2	0.625	0	0.625	0	0.750	2	0.625	0
435'-427'6"		A325N		A325N		A325N		A325N		A325N		A325N		A325N	
T58	Flange	1.250	8	0.750	2	0.750	2	0.625	0	0.625	0	0.750	2	0.625	0
427'6"-420'		A325N		A325N		A325N		A325N		A325N		A325N		A325N	
T59	Flange	1.250	8	0.750	2	0.750	2	0.625	0	0.625	0	0.750	2	0.625	0
420'-412'6"		A325N		A325N		A325N		A325N		A325N		A325N		A325N	
T60	Flange	1.250	8	0.750	2	0.750	2	0.625	0	0.625	0	0.750	2	0.625	0
412'6"-405'		A325N		A325N		A325N		A325N		A325N		A325N		A325N	
T61	Flange	1.250	8	0.750	2	0.750	2	0.625	0	0.625	0	0.750	2	0.625	0
405'-375'		A325N		A325N		A325N		A325N		A325N		A325N		A325N	
T62	Flange	1.250	8	0.750	2	0.750	2	0.625	0	0.625	0	0.750	2	0.625	0
375'-345'		A325N		A325N		A325N		A325N		A325N		A325N		A325N	
T63	Flange	1.250	8	0.750	2	0.750	2	0.625	0	0.625	0	0.750	2	0.625	0
345'-315'		A325N		A325N		A325N		A325N		A325N		A325N		A325N	
T64	Flange	1.250	0	0.750	2	0.750	2	0.625	0	0.625	0	0.750	2	0.625	0
315'-285'		A325N		A325N		A325N		A325N		A325N		A325N		A325N	
T65	Flange	1.250	0	0.750	2	0.750	2	0.000	0	0.625	0	0.750	2	0.625	0
285'-255'		A325N		A325N		A325N		A325N		A325N		A325N		A325N	

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Tower Elevation ft	Leg Connection Type	Leg		Diagonal		Top Girt		Bottom Girt		Mid Girt		Long Horizontal		Short Horizontal	
		Bolt Size in	No.	Bolt Size in	No.	Bolt Size in	No.	Bolt Size in	No.	Bolt Size in	No.	Bolt Size in	No.	Bolt Size in	No.
T66 255'-225'	Flange	1.250	0	0.750	2	0.750	2	0.000	0	0.625	0	0.750	2	0.625	0
		A325N		A325N		A325N		A325N		A325N		A325N		A325N	
T67 225'-195'	Flange	1.250	8	0.750	2	0.750	2	0.000	0	0.625	0	0.750	2	0.625	0
		A325N		A325N		A325N		A325N		A325N		A325N		A325N	
T68 195'-187'6"	Flange	1.250	8	0.750	2	0.750	2	0.625	0	0.625	0	0.750	2	0.625	0
		A325N		A325N		A325N		A325N		A325N		A325N		A325N	
T69 187'6"-180'	Flange	1.250	8	0.750	2	0.750	2	0.625	0	0.625	0	0.750	2	0.625	0
		A325N		A325N		A325N		A325N		A325N		A325N		A325N	
T70 180'-172'6"	Flange	1.250	8	0.750	2	0.750	2	0.625	0	0.625	0	0.750	2	0.625	0
		A325N		A325N		A325N		A325N		A325N		A325N		A325N	
T71 172'6"-165'	Flange	1.250	8	0.750	2	0.750	2	0.625	0	0.625	0	0.750	2	0.625	0
		A325N		A325N		A325N		A325N		A325N		A325N		A325N	
T72 165'-135'	Flange	1.250	0	0.750	2	0.750	2	0.625	0	0.625	0	0.750	2	0.625	0
		A325N		A325N		A325N		A325N		A325N		A325N		A325N	
T73 135'-105'	Flange	1.250	0	0.750	2	0.750	2	0.000	0	0.625	0	0.750	2	0.625	0
		A325N		A325N		A325N		A325N		A325N		A325N		A325N	
T74 105'-75'	Flange	1.250	8	0.750	2	0.750	4	0.000	0	0.625	0	0.750	2	0.625	0
		A325N		A325N		A325N		A325N		A325N		A325N		A325N	
T75 75'-45'	Flange	1.250	8	0.750	2	0.750	8	0.000	0	0.625	0	0.750	2	0.625	0
		A325N		A325N		A325N		A325N		A325N		A325N		A325N	
T76 45'-37'6"	Flange	1.250	0	0.750	2	0.750	2	0.625	0	0.625	0	0.750	2	0.625	0
		A325N		A325N		A325N		A325N		A325N		A325N		A325N	
T77 37'6"-30'	Flange	1.250	0	1.000	2	1.250	9	0.625	0	0.625	0	1.000	2	0.625	0
		A325N		A325N		A325N		A325N		A325N		A325N		A325N	
T78 30'-22'6"	Flange	1.250	0	0.750	2	0.750	8	0.000	0	0.625	0	0.750	2	0.625	0
		A325N		A325N		A325N		A325N		A325N		A325N		A325N	
T79 22'6"-15'	Flange	1.250	8	0.750	2	0.750	2	0.625	0	0.625	0	0.750	2	0.625	0
		A325N		A325N		A325N		A325N		A325N		A325N		A325N	
T80 15'-0'	Flange	1.250	8	1.000	2	1.250	9	0.625	0	0.625	0	1.000	2	0.625	0
		A325N		A325N		A325N		A325N		A325N		A325N		A325N	

Guy Data

Guy Elevation ft	Guy Grade	Guy Size	Initial Tension K	%	Guy Modulus ksi	Guy Weight plf	L_u ft	Anchor Radius ft	Anchor Azimuth Adj. °	Anchor Elevation ft	End Fitting Efficiency %
1612.5	BS	A 2 3/8	68.800	10%	24000.000	11.850	1931'6"-15/32	1110'	0.0000	28'3"	100%
		B 2 3/8	68.800	10%	24000.000	11.850	"	1110'	0.0000	28'4"-3/16"	100%
		C 2 3/8	68.800	10%	24000.000	11.850	1931'5"-1/2"	1110'	0.0000	24'4"-3/16"	100%
							1934'8"-29/32				
							"				
1440	BS	A 2 5/16	65.400	10%	24000.000	11.240	1792'9"-9/32"	1110'	0.0000	28'3"	100%
		B 2 5/16	65.400	10%	24000.000	11.240	1792'8"-11/32	1110'	0.0000	28'4"-3/16"	100%
		C 2 5/16	65.400	10%	24000.000	11.240	"	1110'	0.0000	24'4"-3/16"	100%
							1795'10"-3/16				
							"				
1230	BS	A 2 1/8	55.400	10%	24000.000	9.490	1632'6"-9/32"	1110'	0.0000	28'3"	100%
		B 2 1/8	55.400	10%	24000.000	9.490	1632'5"-13/32	1110'	0.0000	28'4"-3/16"	100%
		C 2 1/8	55.400	10%	24000.000	9.490	"	1110'	0.0000	24'4"-3/16"	100%
							1635'4"-25/32				
							"				

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	Client	KLFY	Designed by	M.C.

1050	BS	A	2	49.000	10%	24000.000	8.400	1504'11-15/3	1110'	0.0000	28'3"	100%
		B	2	49.000	10%	24000.000	8.400	2"	1110'	0.0000	28'4-3/16"	100%
		C	2	49.000	10%	24000.000	8.400	1504'10-21/3	1110'	0.0000	24'4-3/16"	100%
								2"				
								1507'7-9/32"				
870	BS	A	2 1/8	55.400	10%	24000.000	9.490	1044'8-27/32	625'	0.0000	27'10-13/16"	100%
		B	2 1/8	55.400	10%	24000.000	9.490	"	625'	0.0000	27'11-13/32"	100%
		C	2 1/8	55.400	10%	24000.000	9.490	1044'8-11/32	625'	0.0000	26'1-13/16"	100%
								"				
								1046'1-3/4"				
637.5	BS	A	2	49.000	10%	24000.000	8.400	868'6-11/32"	625'	0.0000	27'10-13/16"	100%
		B	2	49.000	10%	24000.000	8.400	868'5-15/16"	625'	0.0000	27'11-13/32"	100%
		C	2	49.000	10%	24000.000	8.400	869'9-1/16"	625'	0.0000	26'1-13/16"	100%
420	BS	A	1 13/16	40.400	10%	24000.000	6.900	732'7-7/32"	625'	0.0000	27'10-13/16"	100%
		B	1 13/16	40.400	10%	24000.000	6.900	732'6-29/32"	625'	0.0000	27'11-13/32"	100%
		C	1 13/16	40.400	10%	24000.000	6.900	733'6-15/32"	625'	0.0000	26'1-13/16"	100%
195	BS	A	1 1/4	19.200	10%	24000.000	3.280	641'1-11/32"	625'	0.0000	27'10-13/16"	100%
		B	1 1/4	19.200	10%	24000.000	3.280	641'1-3/16"	625'	0.0000	27'11-13/32"	100%
		C	1 1/4	19.200	10%	24000.000	3.280	641'6-27/32"	625'	0.0000	26'1-13/16"	100%

Guy Data(cont'd)

Guy Elevation ft	Mount Type	Torque-Arm Spread ft	Torque-Arm Leg Angle °	Torque-Arm Style	Torque-Arm Grade	Torque-Arm Type	Torque-Arm Size
1612.5	Corner						
1440	Corner						
1230	Corner						
1050	Corner						
870	Corner						
637.5	Corner						
420	Corner						
195	Corner						

Guy Data (cont'd)

Guy Elevation ft	Diagonal Grade	Diagonal Type	Upper Diagonal Size	Lower Diagonal Size	Is Strap.	Pull-Off Grade	Pull-Off Type	Pull-Off Size
1612'6"	A572-50 (50 ksi)	Solid Round			No	A36 (36 ksi)	Double Channel	2C10x30x0.375
1440'	A572-50 (50 ksi)	Solid Round			No	A36 (36 ksi)	Double Channel	2C8x13.75x0.375
1230'	A572-50 (50 ksi)	Solid Round			No	A36 (36 ksi)	Double Channel	2C8x13.75x0.375
1050'	A572-50 (50 ksi)	Solid Round			No	A36 (36 ksi)	Double Channel	2C8x13.75x0.375
870'	A572-50 (50 ksi)	Solid Round			No	A36 (36 ksi)	Double Channel	2C8x13.75x0.375
637'6"	A572-50 (50 ksi)	Solid Round			No	A36 (36 ksi)	Double Channel	2C8x13.75x0.375
420'	A572-50 (50 ksi)	Solid Round			No	A36 (36 ksi)	Double Channel	2C8x13.75x0.375
195'	A572-50 (50 ksi)	Solid Round			No	A36 (36 ksi)	Double Channel	2C8x13.75x0.375

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Guy Data (cont'd)

Guy Elevation ft	Cable Weight A K	Cable Weight B K	Cable Weight C K	Cable Weight D K	Tower Intercept	Tower Intercept	Tower Intercept	Tower Intercept
					A ft	B ft	C ft	D ft
1612.5	22.889	22.888	22.927		283'9-13/32"	283'9-5/32"	284'7-23/32"	
1440	20.151	20.150	20.185		29.1 sec/pulse 247'2-13/16"	29.1 sec/pulse 247'2-9/16"	29.1 sec/pulse 248'3/32"	
1230	15.493	15.492	15.520		27.1 sec/pulse 207'8-29/32"	27.1 sec/pulse 207'8-11/16"	27.2 sec/pulse 208'4-29/32"	
1050	12.642	12.641	12.664		24.9 sec/pulse 179'2-1/16"	24.9 sec/pulse 179'1-29/32"	24.9 sec/pulse 179'9"	
870	9.915	9.914	9.928		23.1 sec/pulse 87'4-9/32"	23.1 sec/pulse 87'4-7/32"	23.1 sec/pulse 87'6-31/32"	
637.5	7.296	7.295	7.306		16.1 sec/pulse 61'6-23/32"	16.1 sec/pulse 61'6-21/32"	16.2 sec/pulse 61'8-11/16"	
420	5.055	5.055	5.061		13.5 sec/pulse 44'5-1/8"	13.5 sec/pulse 44'5-3/32"	13.6 sec/pulse 44'6-13/32"	
195	2.103	2.103	2.104		11.5 sec/pulse 34'8-1/8"	11.5 sec/pulse 34'8-3/32"	11.5 sec/pulse 34'8-21/32"	
					10.2 sec/pulse	10.2 sec/pulse	10.2 sec/pulse	

Guy Data (cont'd)

Guy Elevation ft	Calc K Single Angles	Calc K Solid Rounds	Torque Arm		Pull Off		Diagonal	
			K _x	K _y	K _x	K _y	K _x	K _y
1612.5	No	No			1	1	1	1
1440	No	No			1	1	1	1
1230	No	No			1	1	1	1
1050	No	No			1	1	1	1
870	No	No			1	1	1	1
637.5	No	No			1	1	1	1
420	No	No			1	1	1	1
195	No	No			1	1	1	1

Guy Data (cont'd)

Guy Elevation ft	Torque-Arm				Pull Off				Diagonal			
	Bolt Size in	Number	Net Width Deduct in	U	Bolt Size in	Number	Net Width Deduct in	U	Bolt Size in	Number	Net Width Deduct in	U
1612.5	0.625 A325N	0	0.000	0.75	0.750 A325N	8	0.000	0.75	0.625 A325N	0	0.000	0.75
1440	0.625 A325N	0	0.000	0.75	0.750 A325N	8	0.000	0.75	0.625 A325N	0	0.000	0.75
1230	0.625 A325N	0	0.000	0.75	0.750 A325N	8	0.000	0.75	0.625 A325N	0	0.000	0.75
1050	0.625 A325N	0	0.000	0.75	0.750 A325N	8	0.000	1	0.000 A325N	0	0.000	1

tnxTower TASHJIAN TOWERS CORP. 2765 S. TEMPERANCE AVE. FOWLER, CA. 93625 Phone: (559) 834-4300 FAX: (559) 834-4377	Job LAFAYETTE	Page 28 of 134
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Guy Elevation ft	Torque-Arm				Pull Off				Diagonal			
	Bolt Size in	Number	Net Width Deduct in	U	Bolt Size in	Number	Net Width Deduct in	U	Bolt Size in	Number	Net Width Deduct in	U
870	0.625 A325N	0	0.000	0.75	0.750 A325N	8	0.000	1	0.000 A325N	0	0.000	1
637.5	0.625 A325N	0	0.000	0.75	0.750 A325N	8	0.000	1	0.000 A325N	0	0.000	1
420	0.625 A325N	0	0.000	0.75	0.750 A325N	8	0.000	1	0.000 A325N	0	0.000	1
195	0.625 A325N	0	0.000	0.75	0.750 A325N	8	0.000	1	0.000 A325N	0	0.000	1

Guy Pressures

Guy Elevation ft	Guy Location	z ft	q _z psf	q _z Ice psf	Ice Thickness in
1612.5	A	820'4-1/2"	69.119	3.857	1.379
	B	820'5-3/32"	69.120	3.857	1.379
	C	818'5-3/32"	69.085	3.855	1.379
1440	A	734'1-1/2"	67.522	3.768	1.364
	B	734'2-3/32"	67.523	3.768	1.364
	C	732'2-3/32"	67.484	3.766	1.363
1230	A	629'1-1/2"	65.363	3.647	1.343
	B	629'2-3/32"	65.364	3.647	1.343
	C	627'2-3/32"	65.320	3.645	1.342
1050	A	539'1-1/2"	63.273	3.531	1.322
	B	539'2-3/32"	63.274	3.531	1.322
	C	537'2-3/32"	63.224	3.528	1.322
870	A	448'11-13/32"	60.881	3.397	1.298
	B	448'11-11/16"	60.882	3.397	1.298
	C	448'29/32"	60.856	3.396	1.298
637.5	A	332'8-13/32"	57.159	3.189	1.260
	B	332'8-11/16"	57.160	3.190	1.260
	C	331'9-29/32"	57.127	3.188	1.260
420	A	223'11-13/32"	52.589	2.934	1.211
	B	223'11-11/16"	52.590	2.935	1.211
	C	223'29/32"	52.545	2.932	1.211
195	A	111'5-13/32"	45.403	2.534	1.129
	B	111'5-11/16"	45.406	2.534	1.129
	C	110'6-29/32"	45.328	2.529	1.129

Guy-Tensioning Information

		Temperature At Time Of Tensioning															
Guy Elevation ft	H ft	V ft	0 F		20 F		40 F		60 F		80 F		100 F		120 F		
			Initial Tension K	Intercept ft	Initial Tension K	Intercept ft	Initial Tension K	Intercept ft	Initial Tension K	Intercept ft	Initial Tension K	Intercept ft	Initial Tension K	Intercept ft	Initial Tension K	Intercept ft	
			1612.5	A	1104.23	1584.25	71.877	272.85	70.821	276.51	69.732	280.38	68.800	283.78	67.827	287.43	66.853
	B	1104.23	1584.15	71.877	272.83	70.821	276.49	69.732	280.36	68.800	283.76	67.827	287.41	66.853	291.14	65.950	294.70
	C	1104.23	1588.15	71.866	273.72	70.814	277.37	69.725	281.25	68.800	284.64	67.829	288.29	66.857	292.03	65.957	295.58
1440	A	1104.23	1411.75	68.756	236.24	67.601	239.91	66.477	243.60	65.400	247.23	64.332	250.95	63.333	254.53	62.352	258.14
	B	1104.23	1411.65	68.757	236.22	67.601	239.89	66.477	243.58	65.400	247.21	64.332	250.93	63.333	254.51	62.352	258.12
	C	1104.23	1415.65	68.746	237.02	67.595	240.69	66.473	244.37	65.400	248.01	64.334	251.73	63.339	255.30	62.360	258.92
1230	A	1104.23	1201.75	58.758	196.76	57.587	200.46	56.497	204.02	55.400	207.74	54.380	211.33	53.383	214.95	52.382	218.72
	B	1104.23	1201.65	58.758	196.75	57.588	200.44	56.497	204.01	55.400	207.72	54.380	211.31	53.383	214.93	52.381	218.70
	C	1104.23	1205.65	58.747	197.43	57.580	201.13	56.494	204.69	55.400	208.41	54.383	211.99	53.390	215.61	52.389	219.39

tnxTower TASHJIAN TOWERS CORP. 2765 S. TEMPERANCE AVE. FOWLER, CA. 93625 Phone: (559) 834-4300 FAX: (559) 834-4377	Job LAFAYETTE	Page 29 of 134
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	Client KLFY	Designed by M.C.

Temperature At Time Of Tensioning																	
Guy Elevation ft	H ft	V ft	0 F		20 F		40 F		60 F		80 F		100 F		120 F		
			Initial Tension K	Intercept ft	Initial Tension K	Intercept ft	Initial Tension K	Intercept ft	Initial Tension K	Intercept ft	Initial Tension K	Intercept ft	Initial Tension K	Intercept ft	Initial Tension K	Intercept ft	
1050	A	1104.23	1021.75	52.431	168.19	51.234	171.86	50.063	175.62	49.000	179.17	47.959	182.80	46.932	186.52	45.997	190.04
	B	1104.23	1021.65	52.431	168.18	51.234	171.85	50.063	175.60	49.000	179.16	47.958	182.78	46.932	186.50	45.996	190.03
	C	1104.23	1025.65	52.420	168.77	51.227	172.44	50.059	176.20	49.000	179.75	47.962	183.37	46.937	187.10	46.004	190.62
870	A	619.23	842.10	60.349	80.59	58.640	82.81	56.990	85.06	55.400	87.36	53.869	89.69	52.396	92.05	50.980	94.44
	B	619.23	842.05	60.349	80.59	58.640	82.80	56.990	85.06	55.400	87.35	53.869	89.68	52.395	92.04	50.980	94.43
	C	619.23	843.85	60.336	80.82	58.631	83.03	56.986	85.29	55.400	87.58	53.872	89.91	52.403	92.27	50.990	94.66
637.5	A	619.23	609.60	55.394	54.73	53.169	56.93	51.054	59.19	49.000	61.56	47.055	63.99	45.284	66.37	43.613	68.79
	B	619.23	609.55	55.391	54.73	53.166	56.93	51.051	59.19	49.000	61.56	47.052	63.99	45.281	66.37	43.610	68.79
	C	619.23	611.35	55.456	54.82	53.234	57.02	51.121	59.27	49.000	61.73	47.126	64.07	45.355	66.45	43.684	68.87
420	A	619.23	392.10	47.801	37.71	45.157	39.86	42.690	42.11	40.400	44.43	38.284	46.81	36.337	49.24	34.549	51.71
	B	619.23	392.05	47.802	37.71	45.158	39.86	42.690	42.10	40.400	44.43	38.284	46.81	36.337	49.24	34.549	51.71
	C	619.23	393.85	47.782	37.82	45.145	39.97	42.684	42.21	40.400	44.54	38.289	46.92	36.345	49.35	34.561	51.82
195	A	619.23	167.10	23.824	28.00	22.140	30.11	20.598	32.34	19.200	34.68	17.941	37.09	16.814	39.55	15.808	42.03
	B	619.23	167.05	23.824	28.00	22.140	30.11	20.598	32.34	19.200	34.68	17.941	37.08	16.814	39.54	15.808	42.03
	C	619.23	168.85	23.818	28.04	22.136	30.16	20.596	32.39	19.200	34.72	17.943	37.13	16.816	39.59	15.811	42.08

Feed Line/Linear Appurtenances - Entered As Round Or Flat

Description	Face or Leg	Allow Shield	Exclude From Torque Calculation	Component Type	Placement ft	Face Offset in	Lateral Offset (Frac FW)	#	# Per Row	Clear Spacing in	Width or Diameter in	Perimeter in	Weight plf
4 1/16	C	No	No	Ar (CaAa)	1620' - 10'	-6.000	0.4	1	1	4.060	4.060		4.150
7 3/16"	C	No	No	Ar (CaAa)	1620' - 10'	-6.000	-0.4	1	1	7.240	7.240		7.600
4 1/16	C	No	No	Ar (CaAa)	1552' - 10'	-15.000	0.4	1	1	4.060	4.060		4.150
3 1/8	C	No	No	Ar (CaAa)	950' - 10'	0.000	0	1	1	3.130	3.130		2.760
Safety Line 3/8	A	No	No	Ar (CaAa)	1620' - 10'	-20.000	0	1	1	0.375	0.375		0.220
1 3/4 Rigid Conduit	B	No	No	Ar (CaAa)	1620' - 10'	0.000	0.4	1	1	1.500	1.500		1.000
1 5/8	B	No	No	Ar (CaAa)	960' - 10'	0.000	0	1	1	1.980	1.980		1.040
7/8	B	No	No	Ar (CaAa)	460' - 10'	0.000	0.1	1	1	1.110	1.110		0.540
EW63	B	No	No	Ar (CaAa)	400' - 10'	0.000	-0.1	1	1	1.574	1.574		0.510
CAT5	B	No	No	Ar (CaAa)	180' - 10'	0.000	0.2	2	2	0.250	0.250		0.100
1/4	B	No	No	Ar (CaAa)	16' - 10'	0.000	-0.2	1	1	0.350	0.350		0.060

Feed Line/Linear Appurtenances - Entered As Area

Description	Face or Leg	Allow Shield	Exclude From Torque Calculation	Component Type	Placement ft	Face Offset in	Lateral Offset (Frac FW)	#	C _A A	Weight plf
Climbing Ladder	A	No	No	CaAa (In Face)	1620' - 10'	-20.000	0	1	No	7.900
									Ice	10.600
									1/2"	13.300
									Ice	
Feedline Ladder (Af)	B	No	No	CaAa (In Face)	1620' - 10'	0.000	0	1	No	8.400
									Ice	13.500
									1/2"	18.600
									Ice	
									1" Ice	

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Feed Line/Linear Appurtenances Section Areas

Tower Section	Tower Elevation ft	Face	A_R ft ²	A_F ft ²	C_{AA} In Face ft ²	C_{AA} Out Face ft ²	Weight K
T1	1620'-1612'6"	A	0.000	0.000	2.456	0.000	0.061
		B	0.000	0.000	4.875	0.000	0.070
		C	0.000	0.000	4.665	0.000	0.088
T2	1612'6"-1605'	A	0.000	0.000	2.456	0.000	0.061
		B	0.000	0.000	4.875	0.000	0.070
		C	0.000	0.000	4.665	0.000	0.088
T3	1605'-1575'	A	0.000	0.000	9.825	0.000	0.244
		B	0.000	0.000	19.500	0.000	0.282
		C	0.000	0.000	18.661	0.000	0.352
T4	1575'-1545'	A	0.000	0.000	9.825	0.000	0.244
		B	0.000	0.000	19.500	0.000	0.282
		C	0.000	0.000	20.481	0.000	0.382
T5	1545'-1515'	A	0.000	0.000	9.825	0.000	0.244
		B	0.000	0.000	19.500	0.000	0.282
		C	0.000	0.000	26.462	0.000	0.477
T6	1515'-1485'	A	0.000	0.000	9.825	0.000	0.244
		B	0.000	0.000	19.500	0.000	0.282
		C	0.000	0.000	26.462	0.000	0.477
T7	1485'-1455'	A	0.000	0.000	9.825	0.000	0.244
		B	0.000	0.000	19.500	0.000	0.282
		C	0.000	0.000	26.462	0.000	0.477
T8	1455'-1447'6"	A	0.000	0.000	2.456	0.000	0.061
		B	0.000	0.000	4.875	0.000	0.070
		C	0.000	0.000	6.616	0.000	0.119
T9	1447'6"-1440'	A	0.000	0.000	2.456	0.000	0.061
		B	0.000	0.000	4.875	0.000	0.070
		C	0.000	0.000	6.616	0.000	0.119
T10	1440'-1432'6"	A	0.000	0.000	2.456	0.000	0.061
		B	0.000	0.000	4.875	0.000	0.070
		C	0.000	0.000	6.616	0.000	0.119
T11	1432'6"-1425'	A	0.000	0.000	2.456	0.000	0.061
		B	0.000	0.000	4.875	0.000	0.070
		C	0.000	0.000	6.616	0.000	0.119
T12	1425'-1395'	A	0.000	0.000	9.825	0.000	0.244
		B	0.000	0.000	19.500	0.000	0.282
		C	0.000	0.000	26.462	0.000	0.477
T13	1395'-1365'	A	0.000	0.000	9.825	0.000	0.244
		B	0.000	0.000	19.500	0.000	0.282
		C	0.000	0.000	26.462	0.000	0.477
T14	1365'-1335'	A	0.000	0.000	9.825	0.000	0.244
		B	0.000	0.000	19.500	0.000	0.282
		C	0.000	0.000	26.462	0.000	0.477
T15	1335'-1305'	A	0.000	0.000	9.825	0.000	0.244
		B	0.000	0.000	19.500	0.000	0.282
		C	0.000	0.000	26.462	0.000	0.477
T16	1305'-1275'	A	0.000	0.000	9.825	0.000	0.244
		B	0.000	0.000	19.500	0.000	0.282
		C	0.000	0.000	26.462	0.000	0.477
T17	1275'-1245'	A	0.000	0.000	9.825	0.000	0.244
		B	0.000	0.000	19.500	0.000	0.282
		C	0.000	0.000	26.462	0.000	0.477
T18	1245'-1237'6"	A	0.000	0.000	2.456	0.000	0.061
		B	0.000	0.000	4.875	0.000	0.070
		C	0.000	0.000	6.616	0.000	0.119
T19	1237'6"-1230'	A	0.000	0.000	2.456	0.000	0.061
		B	0.000	0.000	4.875	0.000	0.070
		C	0.000	0.000	6.616	0.000	0.119
T20	1230'-1222'6"	A	0.000	0.000	2.456	0.000	0.061

<p>tnxTower</p> <p>TASHJIAN TOWERS CORP. 2765 S. TEMPERANCE AVE. FOWLER, CA. 93625 Phone: (559) 834-4300 FAX: (559) 834-4377</p>	Job LAFAYETTE	Page 31 of 134
	Project 1620' GUYED TOWER	Date 11:40:25 11/02/18
	Client KLFY	Designed by M.C.

Tower Section	Tower Elevation ft	Face	A_R ft ²	A_F ft ²	C_{AA} In Face ft ²	C_{AA} Out Face ft ²	Weight K
		B	0.000	0.000	4.875	0.000	0.070
		C	0.000	0.000	6.616	0.000	0.119
T21	1222'6"-1215'	A	0.000	0.000	2.456	0.000	0.061
		B	0.000	0.000	4.875	0.000	0.070
		C	0.000	0.000	6.616	0.000	0.119
T22	1215'-1185'	A	0.000	0.000	9.825	0.000	0.244
		B	0.000	0.000	19.500	0.000	0.282
		C	0.000	0.000	26.462	0.000	0.477
T23	1185'-1155'	A	0.000	0.000	9.825	0.000	0.244
		B	0.000	0.000	19.500	0.000	0.282
		C	0.000	0.000	26.462	0.000	0.477
T24	1155'-1125'	A	0.000	0.000	9.825	0.000	0.244
		B	0.000	0.000	19.500	0.000	0.282
		C	0.000	0.000	26.462	0.000	0.477
T25	1125'-1095'	A	0.000	0.000	9.825	0.000	0.244
		B	0.000	0.000	19.500	0.000	0.282
		C	0.000	0.000	26.462	0.000	0.477
T26	1095'-1065'	A	0.000	0.000	9.825	0.000	0.244
		B	0.000	0.000	19.500	0.000	0.282
		C	0.000	0.000	26.462	0.000	0.477
T27	1065'-1057'6"	A	0.000	0.000	2.456	0.000	0.061
		B	0.000	0.000	4.875	0.000	0.070
		C	0.000	0.000	6.616	0.000	0.119
T28	1057'6"-1050'	A	0.000	0.000	2.456	0.000	0.061
		B	0.000	0.000	4.875	0.000	0.070
		C	0.000	0.000	6.616	0.000	0.119
T29	1050'-1042'6"	A	0.000	0.000	2.456	0.000	0.061
		B	0.000	0.000	4.875	0.000	0.070
		C	0.000	0.000	6.616	0.000	0.119
T30	1042'6"-1035'	A	0.000	0.000	2.456	0.000	0.061
		B	0.000	0.000	4.875	0.000	0.070
		C	0.000	0.000	6.616	0.000	0.119
T31	1035'-1005'	A	0.000	0.000	9.825	0.000	0.244
		B	0.000	0.000	19.500	0.000	0.282
		C	0.000	0.000	26.462	0.000	0.477
T32	1005'-975'	A	0.000	0.000	9.825	0.000	0.244
		B	0.000	0.000	19.500	0.000	0.282
		C	0.000	0.000	26.462	0.000	0.477
T33	975'-945'	A	0.000	0.000	9.825	0.000	0.244
		B	0.000	0.000	22.470	0.000	0.298
		C	0.000	0.000	27.763	0.000	0.491
T34	945'-915'	A	0.000	0.000	9.825	0.000	0.244
		B	0.000	0.000	25.440	0.000	0.313
		C	0.000	0.000	34.264	0.000	0.560
T35	915'-885'	A	0.000	0.000	9.825	0.000	0.244
		B	0.000	0.000	25.440	0.000	0.313
		C	0.000	0.000	34.264	0.000	0.560
T36	885'-877'6"	A	0.000	0.000	2.456	0.000	0.061
		B	0.000	0.000	6.360	0.000	0.078
		C	0.000	0.000	8.579	0.000	0.140
T37	877'6"-870'	A	0.000	0.000	2.456	0.000	0.061
		B	0.000	0.000	6.360	0.000	0.078
		C	0.000	0.000	8.584	0.000	0.140
T38	870'-862'6"	A	0.000	0.000	2.456	0.000	0.061
		B	0.000	0.000	6.360	0.000	0.078
		C	0.000	0.000	8.589	0.000	0.140
T39	862'6"-855'	A	0.000	0.000	2.456	0.000	0.061
		B	0.000	0.000	6.360	0.000	0.078
		C	0.000	0.000	8.595	0.000	0.140
T40	855'-825'	A	0.000	0.000	9.825	0.000	0.244
		B	0.000	0.000	25.440	0.000	0.313

tnxTower TASHJIAN TOWERS CORP. 2765 S. TEMPERANCE AVE. FOWLER, CA. 93625 Phone: (559) 834-4300 FAX: (559) 834-4377	Job	LAFAYETTE	Page	32 of 134
	Project	1620' GUYED TOWER	Date	11:40:25 11/02/18
	Client	KLFY	Designed by	M.C.

Tower Section	Tower Elevation ft	Face	A _R ft ²	A _F ft ²	C _{AA} In Face ft ²	C _{AA} Out Face ft ²	Weight K
T41	825'-795'	C	0.000	0.000	34.434	0.000	0.560
		A	0.000	0.000	9.825	0.000	0.244
		B	0.000	0.000	25.440	0.000	0.313
T42	795'-765'	C	0.000	0.000	34.525	0.000	0.560
		A	0.000	0.000	9.825	0.000	0.244
		B	0.000	0.000	25.440	0.000	0.313
T43	765'-735'	C	0.000	0.000	34.619	0.000	0.560
		A	0.000	0.000	9.825	0.000	0.244
		B	0.000	0.000	25.440	0.000	0.313
T44	735'-705'	C	0.000	0.000	34.717	0.000	0.560
		A	0.000	0.000	9.825	0.000	0.244
		B	0.000	0.000	25.440	0.000	0.313
T45	705'-675'	C	0.000	0.000	34.820	0.000	0.560
		A	0.000	0.000	9.825	0.000	0.244
		B	0.000	0.000	25.440	0.000	0.313
T46	675'-645'	C	0.000	0.000	34.927	0.000	0.560
		A	0.000	0.000	9.825	0.000	0.244
		B	0.000	0.000	25.440	0.000	0.313
T47	645'-637'6"	C	0.000	0.000	35.040	0.000	0.560
		A	0.000	0.000	2.456	0.000	0.061
		B	0.000	0.000	6.360	0.000	0.078
T48	637'6"-630'	C	0.000	0.000	8.778	0.000	0.140
		A	0.000	0.000	2.456	0.000	0.061
		B	0.000	0.000	6.360	0.000	0.078
T49	630'-622'6"	C	0.000	0.000	8.786	0.000	0.140
		A	0.000	0.000	2.456	0.000	0.061
		B	0.000	0.000	6.360	0.000	0.078
T50	622'6"-615'	C	0.000	0.000	8.794	0.000	0.140
		A	0.000	0.000	2.456	0.000	0.061
		B	0.000	0.000	6.360	0.000	0.078
T51	615'-585'	C	0.000	0.000	8.801	0.000	0.140
		A	0.000	0.000	9.825	0.000	0.244
		B	0.000	0.000	25.440	0.000	0.313
T52	585'-555'	C	0.000	0.000	35.284	0.000	0.560
		A	0.000	0.000	9.825	0.000	0.244
		B	0.000	0.000	25.440	0.000	0.313
T53	555'-525'	C	0.000	0.000	35.416	0.000	0.560
		A	0.000	0.000	9.825	0.000	0.244
		B	0.000	0.000	25.440	0.000	0.313
T54	525'-495'	C	0.000	0.000	35.557	0.000	0.560
		A	0.000	0.000	9.825	0.000	0.244
		B	0.000	0.000	25.440	0.000	0.313
T55	495'-465'	C	0.000	0.000	35.706	0.000	0.560
		A	0.000	0.000	9.825	0.000	0.244
		B	0.000	0.000	25.440	0.000	0.313
T56	465'-435'	C	0.000	0.000	35.865	0.000	0.560
		A	0.000	0.000	9.825	0.000	0.244
		B	0.000	0.000	28.215	0.000	0.327
T57	435'-427'6"	C	0.000	0.000	36.035	0.000	0.560
		A	0.000	0.000	2.456	0.000	0.061
		B	0.000	0.000	7.193	0.000	0.082
T58	427'6"-420'	C	0.000	0.000	9.037	0.000	0.140
		A	0.000	0.000	2.456	0.000	0.061
		B	0.000	0.000	7.193	0.000	0.082
T59	420'-412'6"	C	0.000	0.000	9.049	0.000	0.140
		A	0.000	0.000	2.456	0.000	0.061
		B	0.000	0.000	7.193	0.000	0.082
T60	412'6"-405'	C	0.000	0.000	9.061	0.000	0.140
		A	0.000	0.000	2.456	0.000	0.061
		B	0.000	0.000	7.193	0.000	0.082
		C	0.000	0.000	9.073	0.000	0.140

tnxTower TASHJIAN TOWERS CORP. 2765 S. TEMPERANCE AVE. FOWLER, CA. 93625 Phone: (559) 834-4300 FAX: (559) 834-4377	Job	LAFAYETTE	Page	33 of 134
	Project	1620' GUYED TOWER	Date	11:40:25 11/02/18
	Client	KLFY	Designed by	M.C.

Tower Section	Tower Elevation ft	Face	A _R ft ²	A _F ft ²	C _A A _A In Face ft ²	C _A A _A Out Face ft ²	Weight K
T61	405'-375'	A	0.000	0.000	9.825	0.000	0.244
		B	0.000	0.000	32.706	0.000	0.342
		C	0.000	0.000	36.417	0.000	0.560
T62	375'-345'	A	0.000	0.000	9.825	0.000	0.244
		B	0.000	0.000	33.493	0.000	0.345
		C	0.000	0.000	36.633	0.000	0.560
T63	345'-315'	A	0.000	0.000	9.825	0.000	0.244
		B	0.000	0.000	33.493	0.000	0.345
		C	0.000	0.000	36.871	0.000	0.560
T64	315'-285'	A	0.000	0.000	9.825	0.000	0.244
		B	0.000	0.000	33.493	0.000	0.345
		C	0.000	0.000	37.133	0.000	0.560
T65	285'-255'	A	0.000	0.000	9.825	0.000	0.244
		B	0.000	0.000	33.493	0.000	0.345
		C	0.000	0.000	37.426	0.000	0.560
T66	255'-225'	A	0.000	0.000	9.825	0.000	0.244
		B	0.000	0.000	33.493	0.000	0.345
		C	0.000	0.000	37.757	0.000	0.560
T67	225'-195'	A	0.000	0.000	9.825	0.000	0.244
		B	0.000	0.000	33.493	0.000	0.345
		C	0.000	0.000	38.138	0.000	0.560
T68	195'-187'6"	A	0.000	0.000	2.456	0.000	0.061
		B	0.000	0.000	8.373	0.000	0.086
		C	0.000	0.000	9.602	0.000	0.140
T69	187'6"-180'	A	0.000	0.000	2.456	0.000	0.061
		B	0.000	0.000	8.373	0.000	0.086
		C	0.000	0.000	9.631	0.000	0.140
T70	180'-172'6"	A	0.000	0.000	2.456	0.000	0.061
		B	0.000	0.000	8.748	0.000	0.088
		C	0.000	0.000	9.661	0.000	0.140
T71	172'6"-165'	A	0.000	0.000	2.456	0.000	0.061
		B	0.000	0.000	8.748	0.000	0.088
		C	0.000	0.000	9.693	0.000	0.140
T72	165'-135'	A	0.000	0.000	9.825	0.000	0.244
		B	0.000	0.000	34.993	0.000	0.351
		C	0.000	0.000	39.091	0.000	0.560
T73	135'-105'	A	0.000	0.000	9.825	0.000	0.244
		B	0.000	0.000	34.993	0.000	0.351
		C	0.000	0.000	39.539	0.000	0.560
T74	105'-75'	A	0.000	0.000	9.825	0.000	0.244
		B	0.000	0.000	34.993	0.000	0.351
		C	0.000	0.000	40.132	0.000	0.560
T75	75'-45'	A	0.000	0.000	9.825	0.000	0.244
		B	0.000	0.000	34.993	0.000	0.351
		C	0.000	0.000	40.999	0.000	0.560
T76	45'-37'6"	A	0.000	0.000	2.456	0.000	0.061
		B	0.000	0.000	8.748	0.000	0.088
		C	0.000	0.000	10.458	0.000	0.140
T77	37'6"-30'	A	0.000	0.000	2.456	0.000	0.061
		B	0.000	0.000	8.748	0.000	0.088
		C	0.000	0.000	10.614	0.000	0.140
T78	30'-22'6"	A	0.000	0.000	2.456	0.000	0.061
		B	0.000	0.000	8.748	0.000	0.088
		C	0.000	0.000	10.836	0.000	0.140
T79	22'6"-15'	A	0.000	0.000	2.456	0.000	0.061
		B	0.000	0.000	8.783	0.000	0.088
		C	0.000	0.000	11.142	0.000	0.140
T80	15'-0'	A	0.000	0.000	1.638	0.000	0.041
		B	0.000	0.000	6.007	0.000	0.059
		C	0.000	0.000	7.563	0.000	0.093

tnxTower TASHJIAN TOWERS CORP. 2765 S. TEMPERANCE AVE. FOWLER, CA. 93625 Phone: (559) 834-4300 FAX: (559) 834-4377	Job	LAFAYETTE	Page	34 of 134
	Project	1620' GUYED TOWER	Date	11:40:25 11/02/18
	Client	KLFY	Designed by	M.C.

Feed Line/Linear Appurtenances Section Areas - With Ice

Tower Section	Tower Elevation ft	Face or Leg	Ice Thickness in	A_R ft ²	A_F ft ²	C_{AA} In Face ft ²	C_{AA} Out Face ft ²	Weight K
T1	1620'-1612'6"	A	1.400	0.000	0.000	10.016	0.000	0.140
		B		0.000	0.000	9.308	0.000	0.215
		C		0.000	0.000	12.675	0.000	0.269
T2	1612'6"-1605'	A	1.400	0.000	0.000	10.016	0.000	0.140
		B		0.000	0.000	9.308	0.000	0.215
		C		0.000	0.000	12.675	0.000	0.269
T3	1605'-1575'	A	1.400	0.000	0.000	40.065	0.000	0.561
		B		0.000	0.000	37.233	0.000	0.859
		C		0.000	0.000	50.700	0.000	1.076
T4	1575'-1545'	A	1.400	0.000	0.000	40.065	0.000	0.561
		B		0.000	0.000	37.233	0.000	0.859
		C		0.000	0.000	55.502	0.000	1.170
T5	1545'-1515'	A	1.400	0.000	0.000	40.065	0.000	0.561
		B		0.000	0.000	37.233	0.000	0.859
		C		0.000	0.000	71.280	0.000	1.481
T6	1515'-1485'	A	1.400	0.000	0.000	40.065	0.000	0.561
		B		0.000	0.000	37.233	0.000	0.859
		C		0.000	0.000	71.280	0.000	1.481
T7	1485'-1455'	A	1.400	0.000	0.000	40.065	0.000	0.561
		B		0.000	0.000	37.233	0.000	0.859
		C		0.000	0.000	71.280	0.000	1.481
T8	1455'-1447'6"	A	1.400	0.000	0.000	10.016	0.000	0.140
		B		0.000	0.000	9.308	0.000	0.215
		C		0.000	0.000	17.820	0.000	0.370
T9	1447'6"-1440'	A	1.400	0.000	0.000	10.016	0.000	0.140
		B		0.000	0.000	9.308	0.000	0.215
		C		0.000	0.000	17.820	0.000	0.370
T10	1440'-1432'6"	A	1.400	0.000	0.000	10.016	0.000	0.140
		B		0.000	0.000	9.308	0.000	0.215
		C		0.000	0.000	17.820	0.000	0.370
T11	1432'6"-1425'	A	1.400	0.000	0.000	10.016	0.000	0.140
		B		0.000	0.000	9.308	0.000	0.215
		C		0.000	0.000	17.820	0.000	0.370
T12	1425'-1395'	A	1.400	0.000	0.000	40.065	0.000	0.561
		B		0.000	0.000	37.233	0.000	0.859
		C		0.000	0.000	71.280	0.000	1.481
T13	1395'-1365'	A	1.400	0.000	0.000	40.065	0.000	0.561
		B		0.000	0.000	37.233	0.000	0.859
		C		0.000	0.000	71.280	0.000	1.481
T14	1365'-1335'	A	1.400	0.000	0.000	40.065	0.000	0.561
		B		0.000	0.000	37.233	0.000	0.859
		C		0.000	0.000	71.280	0.000	1.481
T15	1335'-1305'	A	1.400	0.000	0.000	40.065	0.000	0.561
		B		0.000	0.000	37.233	0.000	0.859
		C		0.000	0.000	71.280	0.000	1.481
T16	1305'-1275'	A	1.400	0.000	0.000	40.065	0.000	0.561
		B		0.000	0.000	37.233	0.000	0.859
		C		0.000	0.000	71.280	0.000	1.481
T17	1275'-1245'	A	1.400	0.000	0.000	40.065	0.000	0.561
		B		0.000	0.000	37.233	0.000	0.859
		C		0.000	0.000	71.280	0.000	1.481
T18	1245'-1237'6"	A	1.400	0.000	0.000	10.016	0.000	0.140
		B		0.000	0.000	9.308	0.000	0.215
		C		0.000	0.000	17.820	0.000	0.370
T19	1237'6"-1230'	A	1.400	0.000	0.000	10.016	0.000	0.140

<p>tnxTower</p> <p>TASHJIAN TOWERS CORP. 2765 S. TEMPERANCE AVE. FOWLER, CA. 93625 Phone: (559) 834-4300 FAX: (559) 834-4377</p>	Job LAFAYETTE	Page 35 of 134
	Project 1620' GUYED TOWER	Date 11:40:25 11/02/18
	Client KLFY	Designed by M.C.

Tower Section	Tower Elevation ft	Face or Leg	Ice Thickness in	A _R ft ²	A _F ft ²	C _{AA} In Face ft ²	C _{AA} Out Face ft ²	Weight K
		B		0.000	0.000	9.308	0.000	0.215
		C		0.000	0.000	17.820	0.000	0.370
T20	1230'-1222'6"	A	1.400	0.000	0.000	10.016	0.000	0.140
		B		0.000	0.000	9.308	0.000	0.215
		C		0.000	0.000	17.820	0.000	0.370
T21	1222'6"-1215'	A	1.400	0.000	0.000	10.016	0.000	0.140
		B		0.000	0.000	9.308	0.000	0.215
		C		0.000	0.000	17.820	0.000	0.370
T22	1215'-1185'	A	1.400	0.000	0.000	40.065	0.000	0.561
		B		0.000	0.000	37.233	0.000	0.859
		C		0.000	0.000	71.280	0.000	1.481
T23	1185'-1155'	A	1.400	0.000	0.000	40.065	0.000	0.561
		B		0.000	0.000	37.233	0.000	0.859
		C		0.000	0.000	71.280	0.000	1.481
T24	1155'-1125'	A	1.400	0.000	0.000	40.065	0.000	0.561
		B		0.000	0.000	37.233	0.000	0.859
		C		0.000	0.000	71.280	0.000	1.481
T25	1125'-1095'	A	1.400	0.000	0.000	40.065	0.000	0.561
		B		0.000	0.000	37.233	0.000	0.859
		C		0.000	0.000	71.280	0.000	1.481
T26	1095'-1065'	A	1.400	0.000	0.000	40.065	0.000	0.561
		B		0.000	0.000	37.233	0.000	0.859
		C		0.000	0.000	71.280	0.000	1.481
T27	1065'-1057'6"	A	1.400	0.000	0.000	10.016	0.000	0.140
		B		0.000	0.000	9.308	0.000	0.215
		C		0.000	0.000	17.820	0.000	0.370
T28	1057'6"-1050'	A	1.400	0.000	0.000	10.016	0.000	0.140
		B		0.000	0.000	9.308	0.000	0.215
		C		0.000	0.000	17.820	0.000	0.370
T29	1050'-1042'6"	A	1.400	0.000	0.000	10.016	0.000	0.140
		B		0.000	0.000	9.308	0.000	0.215
		C		0.000	0.000	17.820	0.000	0.370
T30	1042'6"-1035'	A	1.400	0.000	0.000	10.016	0.000	0.140
		B		0.000	0.000	9.308	0.000	0.215
		C		0.000	0.000	17.820	0.000	0.370
T31	1035'-1005'	A	1.400	0.000	0.000	40.065	0.000	0.561
		B		0.000	0.000	37.233	0.000	0.859
		C		0.000	0.000	71.280	0.000	1.481
T32	1005'-975'	A	1.400	0.000	0.000	40.065	0.000	0.561
		B		0.000	0.000	37.233	0.000	0.859
		C		0.000	0.000	71.280	0.000	1.481
T33	975'-945'	A	1.400	0.000	0.000	40.065	0.000	0.561
		B		0.000	0.000	44.403	0.000	0.962
		C		0.000	0.000	74.245	0.000	1.533
T34	945'-915'	A	1.396	0.000	0.000	39.986	0.000	0.560
		B		0.000	0.000	51.505	0.000	1.062
		C		0.000	0.000	88.983	0.000	1.792
T35	915'-885'	A	1.392	0.000	0.000	39.888	0.000	0.559
		B		0.000	0.000	51.420	0.000	1.059
		C		0.000	0.000	88.873	0.000	1.787
T36	885'-877'6"	A	1.389	0.000	0.000	9.956	0.000	0.140
		B		0.000	0.000	12.841	0.000	0.264
		C		0.000	0.000	22.201	0.000	0.446
T37	877'6"-870'	A	1.388	0.000	0.000	9.950	0.000	0.140
		B		0.000	0.000	12.836	0.000	0.264
		C		0.000	0.000	22.194	0.000	0.446
T38	870'-862'6"	A	1.386	0.000	0.000	9.943	0.000	0.139
		B		0.000	0.000	12.830	0.000	0.264
		C		0.000	0.000	22.186	0.000	0.445
T39	862'6"-855'	A	1.385	0.000	0.000	9.937	0.000	0.139
		B		0.000	0.000	12.825	0.000	0.264

<p style="text-align: center;">tnxTower</p> <p style="text-align: center;">TASHJIAN TOWERS CORP. 2765 S. TEMPERANCE AVE. FOWLER, CA. 93625 Phone: (559) 834-4300 FAX: (559) 834-4377</p>	Job	LAFAYETTE	Page	36 of 134
	Project	1620' GUYED TOWER	Date	11:40:25 11/02/18
	Client	KLFY	Designed by	M.C.

Tower Section	Tower Elevation ft	Face or Leg	Ice Thickness in	A _R ft ²	A _F ft ²	C _{AA} In Face ft ²	C _{AA} Out Face ft ²	Weight K
T40	855'-825'	C	1.382	0.000	0.000	22.179	0.000	0.445
		A		0.000	0.000	39.681	0.000	0.557
		B		0.000	0.000	51.241	0.000	1.053
T41	825'-795'	C	1.377	0.000	0.000	88.643	0.000	1.777
		A		0.000	0.000	39.573	0.000	0.555
		B		0.000	0.000	51.148	0.000	1.049
T42	795'-765'	C	1.372	0.000	0.000	88.523	0.000	1.771
		A		0.000	0.000	39.460	0.000	0.554
		B		0.000	0.000	51.051	0.000	1.046
T43	765'-735'	C	1.367	0.000	0.000	88.398	0.000	1.766
		A		0.000	0.000	39.344	0.000	0.552
		B		0.000	0.000	50.951	0.000	1.043
T44	735'-705'	C	1.361	0.000	0.000	88.269	0.000	1.760
		A		0.000	0.000	39.224	0.000	0.551
		B		0.000	0.000	50.847	0.000	1.039
T45	705'-675'	C	1.355	0.000	0.000	88.136	0.000	1.754
		A		0.000	0.000	39.099	0.000	0.549
		B		0.000	0.000	50.739	0.000	1.035
T46	675'-645'	C	1.349	0.000	0.000	87.997	0.000	1.748
		A		0.000	0.000	38.970	0.000	0.547
		B		0.000	0.000	50.627	0.000	1.032
T47	645'-637'6"	C	1.345	0.000	0.000	87.853	0.000	1.741
		A		0.000	0.000	9.721	0.000	0.137
		B		0.000	0.000	12.639	0.000	0.257
T48	637'6"-630'	C	1.344	0.000	0.000	21.940	0.000	0.434
		A		0.000	0.000	9.713	0.000	0.136
		B		0.000	0.000	12.631	0.000	0.257
T49	630'-622'6"	C	1.342	0.000	0.000	21.930	0.000	0.434
		A		0.000	0.000	9.704	0.000	0.136
		B		0.000	0.000	12.624	0.000	0.257
T50	622'6"-615'	C	1.341	0.000	0.000	21.921	0.000	0.433
		A		0.000	0.000	9.696	0.000	0.136
		B		0.000	0.000	12.616	0.000	0.257
T51	615'-585'	C	1.336	0.000	0.000	21.911	0.000	0.433
		A		0.000	0.000	38.693	0.000	0.544
		B		0.000	0.000	50.388	0.000	1.024
T52	585'-555'	C	1.330	0.000	0.000	87.546	0.000	1.727
		A		0.000	0.000	38.545	0.000	0.542
		B		0.000	0.000	50.260	0.000	1.019
T53	555'-525'	C	1.322	0.000	0.000	87.382	0.000	1.720
		A		0.000	0.000	38.390	0.000	0.540
		B		0.000	0.000	50.126	0.000	1.015
T54	525'-495'	C	1.315	0.000	0.000	87.209	0.000	1.712
		A		0.000	0.000	38.228	0.000	0.538
		B		0.000	0.000	49.986	0.000	1.010
T55	495'-465'	C	1.307	0.000	0.000	87.029	0.000	1.704
		A		0.000	0.000	38.056	0.000	0.536
		B		0.000	0.000	49.837	0.000	1.005
T56	465'-435'	C	1.299	0.000	0.000	86.838	0.000	1.696
		A		0.000	0.000	37.874	0.000	0.534
		B		0.000	0.000	58.948	0.000	1.109
T57	435'-427'6"	C	1.293	0.000	0.000	86.636	0.000	1.687
		A		0.000	0.000	9.439	0.000	0.133
		B		0.000	0.000	15.166	0.000	0.282
T58	427'6"-420'	C	1.291	0.000	0.000	21.626	0.000	0.420
		A		0.000	0.000	9.427	0.000	0.133
		B		0.000	0.000	15.152	0.000	0.281
T59	420'-412'6"	C	1.288	0.000	0.000	21.612	0.000	0.420
		A		0.000	0.000	9.414	0.000	0.133
		B		0.000	0.000	15.138	0.000	0.281
		C		0.000	0.000	21.598	0.000	0.419

<p>tnxTower</p> <p>TASHJIAN TOWERS CORP. 2765 S. TEMPERANCE AVE. FOWLER, CA. 93625 Phone: (559) 834-4300 FAX: (559) 834-4377</p>	Job LAFAYETTE	Page 37 of 134
	Project 1620' GUYED TOWER	Date 11:40:25 11/02/18
	Client KLFY	Designed by M.C.

Tower Section	Tower Elevation ft	Face or Leg	Ice Thickness in	A _R ft ²	A _F ft ²	C _{AA} In Face ft ²	C _{AA} Out Face ft ²	Weight K
T60	412'6"-405'	A	1.286	0.000	0.000	9.402	0.000	0.133
		B		0.000	0.000	15.124	0.000	0.280
		C		0.000	0.000	21.584	0.000	0.418
T61	405'-375'	A	1.280	0.000	0.000	37.476	0.000	0.529
		B		0.000	0.000	70.683	0.000	1.241
		C		0.000	0.000	86.193	0.000	1.668
T62	375'-345'	A	1.270	0.000	0.000	37.255	0.000	0.526
		B		0.000	0.000	72.437	0.000	1.257
		C		0.000	0.000	85.948	0.000	1.657
T63	345'-315'	A	1.259	0.000	0.000	37.018	0.000	0.523
		B		0.000	0.000	72.100	0.000	1.247
		C		0.000	0.000	85.684	0.000	1.645
T64	315'-285'	A	1.247	0.000	0.000	36.760	0.000	0.520
		B		0.000	0.000	71.733	0.000	1.236
		C		0.000	0.000	85.398	0.000	1.633
T65	285'-255'	A	1.234	0.000	0.000	36.478	0.000	0.516
		B		0.000	0.000	71.333	0.000	1.224
		C		0.000	0.000	85.084	0.000	1.619
T66	255'-225'	A	1.219	0.000	0.000	36.165	0.000	0.512
		B		0.000	0.000	70.890	0.000	1.211
		C		0.000	0.000	84.737	0.000	1.604
T67	225'-195'	A	1.203	0.000	0.000	35.816	0.000	0.508
		B		0.000	0.000	70.394	0.000	1.197
		C		0.000	0.000	84.349	0.000	1.588
T68	195'-187'6"	A	1.192	0.000	0.000	8.894	0.000	0.126
		B		0.000	0.000	17.513	0.000	0.297
		C		0.000	0.000	21.020	0.000	0.394
T69	187'6"-180'	A	1.187	0.000	0.000	8.868	0.000	0.126
		B		0.000	0.000	17.476	0.000	0.296
		C		0.000	0.000	20.991	0.000	0.393
T70	180'-172'6"	A	1.182	0.000	0.000	8.841	0.000	0.126
		B		0.000	0.000	21.251	0.000	0.315
		C		0.000	0.000	20.962	0.000	0.392
T71	172'6"-165'	A	1.177	0.000	0.000	8.813	0.000	0.125
		B		0.000	0.000	21.198	0.000	0.314
		C		0.000	0.000	20.931	0.000	0.390
T72	165'-135'	A	1.163	0.000	0.000	34.956	0.000	0.498
		B		0.000	0.000	84.223	0.000	1.243
		C		0.000	0.000	83.393	0.000	1.547
T73	135'-105'	A	1.138	0.000	0.000	34.402	0.000	0.491
		B		0.000	0.000	83.165	0.000	1.218
		C		0.000	0.000	82.777	0.000	1.521
T74	105'-75'	A	1.106	0.000	0.000	33.705	0.000	0.483
		B		0.000	0.000	81.834	0.000	1.187
		C		0.000	0.000	82.003	0.000	1.488
T75	75'-45'	A	1.062	0.000	0.000	32.756	0.000	0.471
		B		0.000	0.000	80.023	0.000	1.145
		C		0.000	0.000	80.949	0.000	1.444
T76	45'-37'6"	A	1.023	0.000	0.000	7.978	0.000	0.115
		B		0.000	0.000	19.603	0.000	0.277
		C		0.000	0.000	20.003	0.000	0.352
T77	37'6"-30'	A	1.002	0.000	0.000	7.868	0.000	0.114
		B		0.000	0.000	19.394	0.000	0.272
		C		0.000	0.000	19.881	0.000	0.347
T78	30'-22'6"	A	0.977	0.000	0.000	7.734	0.000	0.113
		B		0.000	0.000	19.138	0.000	0.267
		C		0.000	0.000	19.732	0.000	0.341
T79	22'6"-15'	A	0.945	0.000	0.000	7.559	0.000	0.111
		B		0.000	0.000	19.029	0.000	0.261
		C		0.000	0.000	19.538	0.000	0.333
T80	15'-0'	A	0.862	0.000	0.000	4.742	0.000	0.070

tnxTower TASHJIAN TOWERS CORP. 2765 S. TEMPERANCE AVE. FOWLER, CA. 93625 Phone: (559) 834-4300 FAX: (559) 834-4377	Job	LAFAYETTE	Page	38 of 134
	Project	1620' GUYED TOWER	Date	11:40:25 11/02/18
	Client	KLFY	Designed by	M.C.

Tower Section	Tower Elevation ft	Face or Leg	Ice Thickness in	A_R ft ²	A_F ft ²	C_{AA} In Face ft ²	C_{AA} Out Face ft ²	Weight K
		B		0.000	0.000	13.005	0.000	0.167
		C		0.000	0.000	12.694	0.000	0.209

Feed Line Center of Pressure

Section	Elevation ft	CP_x in	CP_z in	CP_x Ice in	CP_z Ice in
T1	1620'-1612'6"	2.422	1.897	2.964	2.044
T2	1612'6"-1605'	2.641	2.058	3.124	2.143
T3	1605'-1575'	3.794	2.883	3.770	2.528
T4	1575'-1545'	3.074	3.103	3.102	2.729
T5	1545'-1515'	0.842	3.784	1.026	3.356
T6	1515'-1485'	0.842	3.784	1.026	3.356
T7	1485'-1455'	0.842	3.784	1.026	3.356
T8	1455'-1447'6"	0.815	3.662	1.006	3.292
T9	1447'6"-1440'	0.815	3.664	1.007	3.293
T10	1440'-1432'6"	0.637	2.917	0.887	2.948
T11	1432'6"-1425'	0.815	3.664	1.007	3.293
T12	1425'-1395'	0.835	3.744	1.016	3.320
T13	1395'-1365'	0.835	3.744	1.016	3.320
T14	1365'-1335'	0.835	3.744	1.016	3.320
T15	1335'-1305'	0.835	3.744	1.016	3.320
T16	1305'-1275'	0.822	3.682	1.006	3.285
T17	1275'-1245'	0.823	3.682	1.006	3.285
T18	1245'-1237'6"	0.804	3.605	0.997	3.259
T19	1237'6"-1230'	0.804	3.605	0.997	3.259
T20	1230'-1222'6"	0.631	2.886	0.880	2.924
T21	1222'6"-1215'	0.804	3.605	0.997	3.259
T22	1215'-1185'	0.823	3.682	1.006	3.285
T23	1185'-1155'	0.823	3.682	1.006	3.285
T24	1155'-1125'	0.823	3.682	1.006	3.285
T25	1125'-1095'	0.823	3.682	1.006	3.285
T26	1095'-1065'	0.810	3.621	0.996	3.251
T27	1065'-1057'6"	0.792	3.548	0.987	3.226
T28	1057'6"-1050'	0.792	3.548	0.987	3.226
T29	1050'-1042'6"	0.625	2.854	0.874	2.899
T30	1042'6"-1035'	0.792	3.548	0.987	3.226
T31	1035'-1005'	0.811	3.622	0.997	3.251
T32	1005'-975'	0.811	3.622	0.997	3.251
T33	975'-945'	1.172	3.652	1.511	3.117
T34	945'-915'	1.467	4.852	1.947	3.930
T35	915'-885'	1.467	4.852	1.948	3.930
T36	885'-877'6"	1.425	4.769	1.932	3.902
T37	877'6"-870'	1.421	4.772	1.932	3.902
T38	870'-862'6"	1.135	3.901	1.723	3.533
T39	862'6"-855'	1.412	4.778	1.932	3.902
T40	855'-825'	1.430	4.878	1.949	3.931
T41	825'-795'	1.410	4.892	1.950	3.932
T42	795'-765'	1.389	4.906	1.951	3.932
T43	765'-735'	1.368	4.921	1.951	3.933
T44	735'-705'	1.346	4.936	1.952	3.933
T45	705'-675'	1.323	4.953	1.953	3.934
T46	675'-645'	1.281	4.895	1.936	3.896
T47	645'-637'6"	1.240	4.816	1.920	3.869
T48	637'6"-630'	0.994	3.960	1.714	3.504
T49	630'-622'6"	1.227	4.825	1.921	3.869

tnxTower TASHJIAN TOWERS CORP. 2765 S. TEMPERANCE AVE. FOWLER, CA. 93625 Phone: (559) 834-4300 FAX: (559) 834-4377	Job LAFAYETTE	Page 39 of 134
	Project 1620' GUYED TOWER	Date 11:40:25 11/02/18
	Client KLFY	Designed by M.C.

Section	Elevation	CP _x	CP _z	CP _x	CP _z
	ft	in	in	Ice in	Ice in
T50	622'6"-615'	1.221	4.830	1.921	3.869
T51	615'-585'	1.229	4.932	1.938	3.898
T52	585'-555'	1.201	4.951	1.939	3.899
T53	555'-525'	1.172	4.972	1.940	3.899
T54	525'-495'	1.140	4.994	1.941	3.900
T55	495'-465'	1.107	5.017	1.943	3.901
T56	465'-435'	1.441	4.906	2.681	3.657
T57	435'-427'6"	1.442	4.738	2.775	3.549
T58	427'6"-420"	1.433	4.747	2.776	3.551
T59	420'-412'6"	1.157	3.935	2.483	3.224
T60	412'6"-405'	1.414	4.761	2.775	3.552
T61	405'-375'	1.750	4.363	3.303	2.825
T62	375'-345'	1.772	4.296	3.399	2.683
T63	345'-315'	1.723	4.330	3.397	2.686
T64	315'-285'	1.670	4.367	3.394	2.690
T65	285'-255'	1.610	4.409	3.391	2.695
T66	255'-225'	1.543	4.457	3.387	2.700
T67	225'-195'	1.466	4.511	3.384	2.706
T68	195'-187'6"	1.132	3.721	2.997	2.441
T69	187'6"-180'	1.363	4.487	3.351	2.692
T70	180'-172'6"	1.553	4.498	4.643	2.718
T71	172'6"-165'	1.528	4.516	4.639	2.719
T72	165'-135'	1.488	4.636	4.667	2.743
T73	135'-105'	1.357	4.685	4.648	2.752
T74	105'-75'	1.184	4.749	4.623	2.763
T75	75'-45'	0.934	4.842	4.588	2.779
T76	45'-37'6"	0.682	4.849	4.515	2.772
T77	37'6"-30'	0.524	4.362	4.167	2.601
T78	30'-22'6"	0.399	3.980	3.839	2.439
T79	22'6"-15'	0.383	4.083	4.206	2.559
T80	15'-0'	-0.066	1.263	1.053	0.453

Shielding Factor Ka

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K _a No Ice	K _a Ice
T1	1	4 1/16	1612.50 - 1620.00	1.0000	0.6000
T1	2	7 3/16"	1612.50 - 1620.00	1.0000	0.6000
T1	5	Climbing Ladder	1612.50 - 1620.00	0.6000	0.6000
T1	6	Safety Line 3/8	1612.50 - 1620.00	0.6000	0.6000
T1	7	Feedline Ladder (Af)	1612.50 - 1620.00	0.6000	0.6000
T1	8	1 3/4 Rigid Conduit	1612.50 - 1620.00	0.6000	0.6000
T2	1	4 1/16	1605.00 - 1612.50	1.0000	0.6000
T2	2	7 3/16"	1605.00 - 1612.50	1.0000	0.6000
T2	5	Climbing Ladder	1605.00 - 1612.50	0.6000	0.6000
T2	6	Safety Line 3/8	1605.00 - 1612.50	0.6000	0.6000

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	Project 1620' GUYED TOWER	Date 11:40:25 11/02/18
	Client KLFY	Designed by M.C.

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K _a No Ice	K _a Ice
T2	7	Feedline Ladder (Af)	1612.50 1605.00 - 1612.50	0.6000	0.6000
T2	8	1 3/4 Rigid Conduit	1605.00 - 1612.50	0.6000	0.6000
T3	1	4 1/16	1575.00 - 1605.00	1.0000	0.6000
T3	2	7 3/16"	1575.00 - 1605.00	1.0000	0.6000
T3	5	Climbing Ladder	1575.00 - 1605.00	0.6000	0.6000
T3	6	Safety Line 3/8	1575.00 - 1605.00	0.6000	0.6000
T3	7	Feedline Ladder (Af)	1575.00 - 1605.00	0.6000	0.6000
T3	8	1 3/4 Rigid Conduit	1575.00 - 1605.00	0.6000	0.6000
T4	1	4 1/16	1545.00 - 1575.00	1.0000	0.6000
T4	2	7 3/16"	1545.00 - 1575.00	1.0000	0.6000
T4	3	4 1/16	1545.00 - 1552.00	1.0000	0.6000
T4	5	Climbing Ladder	1545.00 - 1575.00	0.6000	0.6000
T4	6	Safety Line 3/8	1545.00 - 1575.00	0.6000	0.6000
T4	7	Feedline Ladder (Af)	1545.00 - 1575.00	0.6000	0.6000
T4	8	1 3/4 Rigid Conduit	1545.00 - 1575.00	0.6000	0.6000
T5	1	4 1/16	1515.00 - 1545.00	1.0000	0.6000
T5	2	7 3/16"	1515.00 - 1545.00	1.0000	0.6000
T5	3	4 1/16	1515.00 - 1545.00	1.0000	0.6000
T5	5	Climbing Ladder	1515.00 - 1545.00	0.6000	0.6000
T5	6	Safety Line 3/8	1515.00 - 1545.00	0.6000	0.6000
T5	7	Feedline Ladder (Af)	1515.00 - 1545.00	0.6000	0.6000
T5	8	1 3/4 Rigid Conduit	1515.00 - 1545.00	0.6000	0.6000
T6	1	4 1/16	1485.00 - 1515.00	1.0000	0.6000
T6	2	7 3/16"	1485.00 - 1515.00	1.0000	0.6000
T6	3	4 1/16	1485.00 - 1515.00	1.0000	0.6000
T6	5	Climbing Ladder	1485.00 - 1515.00	0.6000	0.6000
T6	6	Safety Line 3/8	1485.00 - 1515.00	0.6000	0.6000
T6	7	Feedline Ladder (Af)	1485.00 - 1515.00	0.6000	0.6000
T6	8	1 3/4 Rigid Conduit	1485.00 - 1515.00	0.6000	0.6000
T7	1	4 1/16	1455.00 - 1485.00	1.0000	0.6000
T7	2	7 3/16"	1455.00 -	1.0000	0.6000

tnxTower TASHJIAN TOWERS CORP. 2765 S. TEMPERANCE AVE. FOWLER, CA. 93625 Phone: (559) 834-4300 FAX: (559) 834-4377	Job LAFAYETTE	Page 41 of 134
	Project 1620' GUYED TOWER	Date 11:40:25 11/02/18
	Client KLFY	Designed by M.C.

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K _a No Ice	K _a Ice
			1485.00		
T7	3	4 1/16	1455.00 - 1485.00	1.0000	0.6000
T7	5	Climbing Ladder	1455.00 - 1485.00	0.6000	0.6000
T7	6	Safety Line 3/8	1455.00 - 1485.00	0.6000	0.6000
T7	7	Feedline Ladder (Af)	1455.00 - 1485.00	0.6000	0.6000
T7	8	1 3/4 Rigid Conduit	1455.00 - 1485.00	0.6000	0.6000
T8	1	4 1/16	1447.50 - 1455.00	1.0000	0.6000
T8	2	7 3/16"	1447.50 - 1455.00	1.0000	0.6000
T8	3	4 1/16	1447.50 - 1455.00	1.0000	0.6000
T8	5	Climbing Ladder	1447.50 - 1455.00	0.6000	0.6000
T8	6	Safety Line 3/8	1447.50 - 1455.00	0.6000	0.6000
T8	7	Feedline Ladder (Af)	1447.50 - 1455.00	0.6000	0.6000
T8	8	1 3/4 Rigid Conduit	1447.50 - 1455.00	0.6000	0.6000
T9	1	4 1/16	1440.00 - 1447.50	1.0000	0.6000
T9	2	7 3/16"	1440.00 - 1447.50	1.0000	0.6000
T9	3	4 1/16	1440.00 - 1447.50	1.0000	0.6000
T9	5	Climbing Ladder	1440.00 - 1447.50	0.6000	0.6000
T9	6	Safety Line 3/8	1440.00 - 1447.50	0.6000	0.6000
T9	7	Feedline Ladder (Af)	1440.00 - 1447.50	0.6000	0.6000
T9	8	1 3/4 Rigid Conduit	1440.00 - 1447.50	0.6000	0.6000
T10	1	4 1/16	1432.50 - 1440.00	1.0000	0.6000
T10	2	7 3/16"	1432.50 - 1440.00	1.0000	0.6000
T10	3	4 1/16	1432.50 - 1440.00	1.0000	0.6000
T10	5	Climbing Ladder	1432.50 - 1440.00	0.6000	0.6000
T10	6	Safety Line 3/8	1432.50 - 1440.00	0.6000	0.6000
T10	7	Feedline Ladder (Af)	1432.50 - 1440.00	0.6000	0.6000
T10	8	1 3/4 Rigid Conduit	1432.50 - 1440.00	0.6000	0.6000
T11	1	4 1/16	1425.00 - 1432.50	1.0000	0.6000
T11	2	7 3/16"	1425.00 - 1432.50	1.0000	0.6000
T11	3	4 1/16	1425.00 - 1432.50	1.0000	0.6000
T11	5	Climbing Ladder	1425.00 - 1432.50	0.6000	0.6000
T11	6	Safety Line 3/8	1425.00 -	0.6000	0.6000

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	Project	1620' GUYED TOWER	Date	11:40:25 11/02/18
	Client	KLFY	Designed by	M.C.

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K _a No Ice	K _a Ice
T11	7	Feedline Ladder (Af)	1432.50 1425.00 - 1432.50	0.6000	0.6000
T11	8	1 3/4 Rigid Conduit	1425.00 - 1432.50	0.6000	0.6000
T12	1	4 1/16	1395.00 - 1425.00	1.0000	0.6000
T12	2	7 3/16"	1395.00 - 1425.00	1.0000	0.6000
T12	3	4 1/16	1395.00 - 1425.00	1.0000	0.6000
T12	5	Climbing Ladder	1395.00 - 1425.00	0.6000	0.6000
T12	6	Safety Line 3/8	1395.00 - 1425.00	0.6000	0.6000
T12	7	Feedline Ladder (Af)	1395.00 - 1425.00	0.6000	0.6000
T12	8	1 3/4 Rigid Conduit	1395.00 - 1425.00	0.6000	0.6000
T13	1	4 1/16	1365.00 - 1395.00	1.0000	0.6000
T13	2	7 3/16"	1365.00 - 1395.00	1.0000	0.6000
T13	3	4 1/16	1365.00 - 1395.00	1.0000	0.6000
T13	5	Climbing Ladder	1365.00 - 1395.00	0.6000	0.6000
T13	6	Safety Line 3/8	1365.00 - 1395.00	0.6000	0.6000
T13	7	Feedline Ladder (Af)	1365.00 - 1395.00	0.6000	0.6000
T13	8	1 3/4 Rigid Conduit	1365.00 - 1395.00	0.6000	0.6000
T14	1	4 1/16	1335.00 - 1365.00	1.0000	0.6000
T14	2	7 3/16"	1335.00 - 1365.00	1.0000	0.6000
T14	3	4 1/16	1335.00 - 1365.00	1.0000	0.6000
T14	5	Climbing Ladder	1335.00 - 1365.00	0.6000	0.6000
T14	6	Safety Line 3/8	1335.00 - 1365.00	0.6000	0.6000
T14	7	Feedline Ladder (Af)	1335.00 - 1365.00	0.6000	0.6000
T14	8	1 3/4 Rigid Conduit	1335.00 - 1365.00	0.6000	0.6000
T15	1	4 1/16	1305.00 - 1335.00	1.0000	0.6000
T15	2	7 3/16"	1305.00 - 1335.00	1.0000	0.6000
T15	3	4 1/16	1305.00 - 1335.00	1.0000	0.6000
T15	5	Climbing Ladder	1305.00 - 1335.00	0.6000	0.6000
T15	6	Safety Line 3/8	1305.00 - 1335.00	0.6000	0.6000
T15	7	Feedline Ladder (Af)	1305.00 - 1335.00	0.6000	0.6000
T15	8	1 3/4 Rigid Conduit	1305.00 - 1335.00	0.6000	0.6000
T16	1	4 1/16	1275.00 -	1.0000	0.6000

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Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K _a No Ice	K _a Ice
T16	2	7 3/16"	1305.00 - 1275.00 - 1305.00	1.0000	0.6000
T16	3	4 1/16	1275.00 - 1305.00	1.0000	0.6000
T16	5	Climbing Ladder	1275.00 - 1305.00	0.6000	0.6000
T16	6	Safety Line 3/8	1275.00 - 1305.00	0.6000	0.6000
T16	7	Feedline Ladder (Af)	1275.00 - 1305.00	0.6000	0.6000
T16	8	1 3/4 Rigid Conduit	1275.00 - 1305.00	0.6000	0.6000
T17	1	4 1/16	1245.00 - 1275.00	1.0000	0.6000
T17	2	7 3/16"	1245.00 - 1275.00	1.0000	0.6000
T17	3	4 1/16	1245.00 - 1275.00	1.0000	0.6000
T17	5	Climbing Ladder	1245.00 - 1275.00	0.6000	0.6000
T17	6	Safety Line 3/8	1245.00 - 1275.00	0.6000	0.6000
T17	7	Feedline Ladder (Af)	1245.00 - 1275.00	0.6000	0.6000
T17	8	1 3/4 Rigid Conduit	1245.00 - 1275.00	0.6000	0.6000
T18	1	4 1/16	1237.50 - 1245.00	1.0000	0.6000
T18	2	7 3/16"	1237.50 - 1245.00	1.0000	0.6000
T18	3	4 1/16	1237.50 - 1245.00	1.0000	0.6000
T18	5	Climbing Ladder	1237.50 - 1245.00	0.6000	0.6000
T18	6	Safety Line 3/8	1237.50 - 1245.00	0.6000	0.6000
T18	7	Feedline Ladder (Af)	1237.50 - 1245.00	0.6000	0.6000
T18	8	1 3/4 Rigid Conduit	1237.50 - 1245.00	0.6000	0.6000
T19	1	4 1/16	1230.00 - 1237.50	1.0000	0.6000
T19	2	7 3/16"	1230.00 - 1237.50	1.0000	0.6000
T19	3	4 1/16	1230.00 - 1237.50	1.0000	0.6000
T19	5	Climbing Ladder	1230.00 - 1237.50	0.6000	0.6000
T19	6	Safety Line 3/8	1230.00 - 1237.50	0.6000	0.6000
T19	7	Feedline Ladder (Af)	1230.00 - 1237.50	0.6000	0.6000
T19	8	1 3/4 Rigid Conduit	1230.00 - 1237.50	0.6000	0.6000
T20	1	4 1/16	1222.50 - 1230.00	1.0000	0.6000
T20	2	7 3/16"	1222.50 - 1230.00	1.0000	0.6000
T20	3	4 1/16	1222.50 - 1230.00	1.0000	0.6000
T20	5	Climbing Ladder	1222.50 -	0.6000	0.6000

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Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K _a No Ice	K _a Ice
T20	6	Safety Line 3/8	1230.00 1222.50 - 1230.00	0.6000	0.6000
T20	7	Feedline Ladder (Af)	1222.50 - 1230.00	0.6000	0.6000
T20	8	1 3/4 Rigid Conduit	1222.50 - 1230.00	0.6000	0.6000
T21	1	4 1/16	1215.00 - 1222.50	1.0000	0.6000
T21	2	7 3/16"	1215.00 - 1222.50	1.0000	0.6000
T21	3	4 1/16	1215.00 - 1222.50	1.0000	0.6000
T21	5	Climbing Ladder	1215.00 - 1222.50	0.6000	0.6000
T21	6	Safety Line 3/8	1215.00 - 1222.50	0.6000	0.6000
T21	7	Feedline Ladder (Af)	1215.00 - 1222.50	0.6000	0.6000
T21	8	1 3/4 Rigid Conduit	1215.00 - 1222.50	0.6000	0.6000
T22	1	4 1/16	1185.00 - 1215.00	1.0000	0.6000
T22	2	7 3/16"	1185.00 - 1215.00	1.0000	0.6000
T22	3	4 1/16	1185.00 - 1215.00	1.0000	0.6000
T22	5	Climbing Ladder	1185.00 - 1215.00	0.6000	0.6000
T22	6	Safety Line 3/8	1185.00 - 1215.00	0.6000	0.6000
T22	7	Feedline Ladder (Af)	1185.00 - 1215.00	0.6000	0.6000
T22	8	1 3/4 Rigid Conduit	1185.00 - 1215.00	0.6000	0.6000
T23	1	4 1/16	1155.00 - 1185.00	1.0000	0.6000
T23	2	7 3/16"	1155.00 - 1185.00	1.0000	0.6000
T23	3	4 1/16	1155.00 - 1185.00	1.0000	0.6000
T23	5	Climbing Ladder	1155.00 - 1185.00	0.6000	0.6000
T23	6	Safety Line 3/8	1155.00 - 1185.00	0.6000	0.6000
T23	7	Feedline Ladder (Af)	1155.00 - 1185.00	0.6000	0.6000
T23	8	1 3/4 Rigid Conduit	1155.00 - 1185.00	0.6000	0.6000
T24	1	4 1/16	1125.00 - 1155.00	1.0000	0.6000
T24	2	7 3/16"	1125.00 - 1155.00	1.0000	0.6000
T24	3	4 1/16	1125.00 - 1155.00	1.0000	0.6000
T24	5	Climbing Ladder	1125.00 - 1155.00	0.6000	0.6000
T24	6	Safety Line 3/8	1125.00 - 1155.00	0.6000	0.6000
T24	7	Feedline Ladder (Af)	1125.00 - 1155.00	0.6000	0.6000
T24	8	1 3/4 Rigid Conduit	1125.00 -	0.6000	0.6000

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Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K _a No Ice	K _a Ice
			1155.00		
T25	1	4 1/16	1095.00 -	1.0000	0.6000
			1125.00		
T25	2	7 3/16"	1095.00 -	1.0000	0.6000
			1125.00		
T25	3	4 1/16	1095.00 -	1.0000	0.6000
			1125.00		
T25	5	Climbing Ladder	1095.00 -	0.6000	0.6000
			1125.00		
T25	6	Safety Line 3/8	1095.00 -	0.6000	0.6000
			1125.00		
T25	7	Feedline Ladder (Af)	1095.00 -	0.6000	0.6000
			1125.00		
T25	8	1 3/4 Rigid Conduit	1095.00 -	0.6000	0.6000
			1125.00		
T26	1	4 1/16	1065.00 -	1.0000	0.6000
			1095.00		
T26	2	7 3/16"	1065.00 -	1.0000	0.6000
			1095.00		
T26	3	4 1/16	1065.00 -	1.0000	0.6000
			1095.00		
T26	5	Climbing Ladder	1065.00 -	0.6000	0.6000
			1095.00		
T26	6	Safety Line 3/8	1065.00 -	0.6000	0.6000
			1095.00		
T26	7	Feedline Ladder (Af)	1065.00 -	0.6000	0.6000
			1095.00		
T26	8	1 3/4 Rigid Conduit	1065.00 -	0.6000	0.6000
			1095.00		
T27	1	4 1/16	1057.50 -	1.0000	0.6000
			1065.00		
T27	2	7 3/16"	1057.50 -	1.0000	0.6000
			1065.00		
T27	3	4 1/16	1057.50 -	1.0000	0.6000
			1065.00		
T27	5	Climbing Ladder	1057.50 -	0.6000	0.6000
			1065.00		
T27	6	Safety Line 3/8	1057.50 -	0.6000	0.6000
			1065.00		
T27	7	Feedline Ladder (Af)	1057.50 -	0.6000	0.6000
			1065.00		
T27	8	1 3/4 Rigid Conduit	1057.50 -	0.6000	0.6000
			1065.00		
T28	1	4 1/16	1050.00 -	1.0000	0.6000
			1057.50		
T28	2	7 3/16"	1050.00 -	1.0000	0.6000
			1057.50		
T28	3	4 1/16	1050.00 -	1.0000	0.6000
			1057.50		
T28	5	Climbing Ladder	1050.00 -	0.6000	0.6000
			1057.50		
T28	6	Safety Line 3/8	1050.00 -	0.6000	0.6000
			1057.50		
T28	7	Feedline Ladder (Af)	1050.00 -	0.6000	0.6000
			1057.50		
T28	8	1 3/4 Rigid Conduit	1050.00 -	0.6000	0.6000
			1057.50		
T29	1	4 1/16	1042.50 -	1.0000	0.6000
			1050.00		
T29	2	7 3/16"	1042.50 -	1.0000	0.6000
			1050.00		
T29	3	4 1/16	1042.50 -	1.0000	0.6000

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Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K _a No Ice	K _a Ice
T29	5	Climbing Ladder	1050.00 1042.50 - 1050.00	0.6000	0.6000
T29	6	Safety Line 3/8	1042.50 - 1050.00	0.6000	0.6000
T29	7	Feedline Ladder (Af)	1042.50 - 1050.00	0.6000	0.6000
T29	8	1 3/4 Rigid Conduit	1042.50 - 1050.00	0.6000	0.6000
T30	1	4 1/16	1035.00 - 1042.50	1.0000	0.6000
T30	2	7 3/16"	1035.00 - 1042.50	1.0000	0.6000
T30	3	4 1/16	1035.00 - 1042.50	1.0000	0.6000
T30	5	Climbing Ladder	1035.00 - 1042.50	0.6000	0.6000
T30	6	Safety Line 3/8	1035.00 - 1042.50	0.6000	0.6000
T30	7	Feedline Ladder (Af)	1035.00 - 1042.50	0.6000	0.6000
T30	8	1 3/4 Rigid Conduit	1035.00 - 1042.50	0.6000	0.6000
T31	1	4 1/16	1005.00 - 1035.00	1.0000	0.6000
T31	2	7 3/16"	1005.00 - 1035.00	1.0000	0.6000
T31	3	4 1/16	1005.00 - 1035.00	1.0000	0.6000
T31	5	Climbing Ladder	1005.00 - 1035.00	0.6000	0.6000
T31	6	Safety Line 3/8	1005.00 - 1035.00	0.6000	0.6000
T31	7	Feedline Ladder (Af)	1005.00 - 1035.00	0.6000	0.6000
T31	8	1 3/4 Rigid Conduit	1005.00 - 1035.00	0.6000	0.6000
T32	1	4 1/16	975.00 - 1005.00	1.0000	0.6000
T32	2	7 3/16"	975.00 - 1005.00	1.0000	0.6000
T32	3	4 1/16	975.00 - 1005.00	1.0000	0.6000
T32	5	Climbing Ladder	975.00 - 1005.00	0.6000	0.6000
T32	6	Safety Line 3/8	975.00 - 1005.00	0.6000	0.6000
T32	7	Feedline Ladder (Af)	975.00 - 1005.00	0.6000	0.6000
T32	8	1 3/4 Rigid Conduit	975.00 - 1005.00	0.6000	0.6000
T33	1	4 1/16	945.00 - 975.00	1.0000	0.6000
T33	2	7 3/16"	945.00 - 975.00	1.0000	0.6000
T33	3	4 1/16	945.00 - 975.00	1.0000	0.6000
T33	4	3 1/8	945.00 - 950.00	1.0000	0.6000
T33	5	Climbing Ladder	945.00 - 975.00	0.6000	0.6000
T33	6	Safety Line 3/8	945.00 -	0.6000	0.6000

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Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K _a No Ice	K _a Ice
			975.00		
T33	7	Feedline Ladder (Af)	945.00 -	0.6000	0.6000
			975.00		
T33	8	1 3/4 Rigid Conduit	945.00 -	0.6000	0.6000
			975.00		
T33	9	1 5/8	945.00 -	0.6000	0.6000
			960.00		
T34	1	4 1/16	915.00 -	1.0000	0.6000
			945.00		
T34	2	7 3/16"	915.00 -	1.0000	0.6000
			945.00		
T34	3	4 1/16	915.00 -	1.0000	0.6000
			945.00		
T34	4	3 1/8	915.00 -	1.0000	0.6000
			945.00		
T34	5	Climbing Ladder	915.00 -	0.6000	0.6000
			945.00		
T34	6	Safety Line 3/8	915.00 -	0.6000	0.6000
			945.00		
T34	7	Feedline Ladder (Af)	915.00 -	0.6000	0.6000
			945.00		
T34	8	1 3/4 Rigid Conduit	915.00 -	0.6000	0.6000
			945.00		
T34	9	1 5/8	915.00 -	0.6000	0.6000
			945.00		
T35	1	4 1/16	885.00 -	1.0000	0.6000
			915.00		
T35	2	7 3/16"	885.00 -	1.0000	0.6000
			915.00		
T35	3	4 1/16	885.00 -	1.0000	0.6000
			915.00		
T35	4	3 1/8	885.00 -	1.0000	0.6000
			915.00		
T35	5	Climbing Ladder	885.00 -	0.6000	0.6000
			915.00		
T35	6	Safety Line 3/8	885.00 -	0.6000	0.6000
			915.00		
T35	7	Feedline Ladder (Af)	885.00 -	0.6000	0.6000
			915.00		
T35	8	1 3/4 Rigid Conduit	885.00 -	0.6000	0.6000
			915.00		
T35	9	1 5/8	885.00 -	0.6000	0.6000
			915.00		
T36	1	4 1/16	877.50 -	1.0000	0.6000
			885.00		
T36	2	7 3/16"	877.50 -	1.0000	0.6000
			885.00		
T36	3	4 1/16	877.50 -	1.0000	0.6000
			885.00		
T36	4	3 1/8	877.50 -	1.0000	0.6000
			885.00		
T36	5	Climbing Ladder	877.50 -	0.6000	0.6000
			885.00		
T36	6	Safety Line 3/8	877.50 -	0.6000	0.6000
			885.00		
T36	7	Feedline Ladder (Af)	877.50 -	0.6000	0.6000
			885.00		
T36	8	1 3/4 Rigid Conduit	877.50 -	0.6000	0.6000
			885.00		
T36	9	1 5/8	877.50 -	0.6000	0.6000
			885.00		
T37	1	4 1/16	870.00 -	1.0000	0.6000

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Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K _a No Ice	K _a Ice
			877.50		
T37	2	7 3/16"	870.00 -	1.0000	0.6000
			877.50		
T37	3	4 1/16	870.00 -	1.0000	0.6000
			877.50		
T37	4	3 1/8	870.00 -	1.0000	0.6000
			877.50		
T37	5	Climbing Ladder	870.00 -	0.6000	0.6000
			877.50		
T37	6	Safety Line 3/8	870.00 -	0.6000	0.6000
			877.50		
T37	7	Feedline Ladder (Af)	870.00 -	0.6000	0.6000
			877.50		
T37	8	1 3/4 Rigid Conduit	870.00 -	0.6000	0.6000
			877.50		
T37	9	1 5/8	870.00 -	0.6000	0.6000
			877.50		
T38	1	4 1/16	862.50 -	1.0000	0.6000
			870.00		
T38	2	7 3/16"	862.50 -	1.0000	0.6000
			870.00		
T38	3	4 1/16	862.50 -	1.0000	0.6000
			870.00		
T38	4	3 1/8	862.50 -	1.0000	0.6000
			870.00		
T38	5	Climbing Ladder	862.50 -	0.6000	0.6000
			870.00		
T38	6	Safety Line 3/8	862.50 -	0.6000	0.6000
			870.00		
T38	7	Feedline Ladder (Af)	862.50 -	0.6000	0.6000
			870.00		
T38	8	1 3/4 Rigid Conduit	862.50 -	0.6000	0.6000
			870.00		
T38	9	1 5/8	862.50 -	0.6000	0.6000
			870.00		
T39	1	4 1/16	855.00 -	1.0000	0.6000
			862.50		
T39	2	7 3/16"	855.00 -	1.0000	0.6000
			862.50		
T39	3	4 1/16	855.00 -	1.0000	0.6000
			862.50		
T39	4	3 1/8	855.00 -	1.0000	0.6000
			862.50		
T39	5	Climbing Ladder	855.00 -	0.6000	0.6000
			862.50		
T39	6	Safety Line 3/8	855.00 -	0.6000	0.6000
			862.50		
T39	7	Feedline Ladder (Af)	855.00 -	0.6000	0.6000
			862.50		
T39	8	1 3/4 Rigid Conduit	855.00 -	0.6000	0.6000
			862.50		
T39	9	1 5/8	855.00 -	0.6000	0.6000
			862.50		
T40	1	4 1/16	825.00 -	1.0000	0.6000
			855.00		
T40	2	7 3/16"	825.00 -	1.0000	0.6000
			855.00		
T40	3	4 1/16	825.00 -	1.0000	0.6000
			855.00		
T40	4	3 1/8	825.00 -	1.0000	0.6000
			855.00		
T40	5	Climbing Ladder	825.00 -	0.6000	0.6000

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	Project 1620' GUYED TOWER	Date 11:40:25 11/02/18
	Client KLFY	Designed by M.C.

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K _a No Ice	K _a Ice
			855.00		
T40	6	Safety Line 3/8	825.00 -	0.6000	0.6000
			855.00		
T40	7	Feedline Ladder (Af)	825.00 -	0.6000	0.6000
			855.00		
T40	8	1 3/4 Rigid Conduit	825.00 -	0.6000	0.6000
			855.00		
T40	9	1 5/8	825.00 -	0.6000	0.6000
			855.00		
T41	1	4 1/16	795.00 -	1.0000	0.6000
			825.00		
T41	2	7 3/16"	795.00 -	1.0000	0.6000
			825.00		
T41	3	4 1/16	795.00 -	1.0000	0.6000
			825.00		
T41	4	3 1/8	795.00 -	1.0000	0.6000
			825.00		
T41	5	Climbing Ladder	795.00 -	0.6000	0.6000
			825.00		
T41	6	Safety Line 3/8	795.00 -	0.6000	0.6000
			825.00		
T41	7	Feedline Ladder (Af)	795.00 -	0.6000	0.6000
			825.00		
T41	8	1 3/4 Rigid Conduit	795.00 -	0.6000	0.6000
			825.00		
T41	9	1 5/8	795.00 -	0.6000	0.6000
			825.00		
T42	1	4 1/16	765.00 -	1.0000	0.6000
			795.00		
T42	2	7 3/16"	765.00 -	1.0000	0.6000
			795.00		
T42	3	4 1/16	765.00 -	1.0000	0.6000
			795.00		
T42	4	3 1/8	765.00 -	1.0000	0.6000
			795.00		
T42	5	Climbing Ladder	765.00 -	0.6000	0.6000
			795.00		
T42	6	Safety Line 3/8	765.00 -	0.6000	0.6000
			795.00		
T42	7	Feedline Ladder (Af)	765.00 -	0.6000	0.6000
			795.00		
T42	8	1 3/4 Rigid Conduit	765.00 -	0.6000	0.6000
			795.00		
T42	9	1 5/8	765.00 -	0.6000	0.6000
			795.00		
T43	1	4 1/16	735.00 -	1.0000	0.6000
			765.00		
T43	2	7 3/16"	735.00 -	1.0000	0.6000
			765.00		
T43	3	4 1/16	735.00 -	1.0000	0.6000
			765.00		
T43	4	3 1/8	735.00 -	1.0000	0.6000
			765.00		
T43	5	Climbing Ladder	735.00 -	0.6000	0.6000
			765.00		
T43	6	Safety Line 3/8	735.00 -	0.6000	0.6000
			765.00		
T43	7	Feedline Ladder (Af)	735.00 -	0.6000	0.6000
			765.00		
T43	8	1 3/4 Rigid Conduit	735.00 -	0.6000	0.6000
			765.00		
T43	9	1 5/8	735.00 -	0.6000	0.6000

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	Project 1620' GUYED TOWER	Date 11:40:25 11/02/18
	Client KLFY	Designed by M.C.

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K _a No Ice	K _a Ice
			765.00		
T44	1	4 1/16	705.00 - 735.00	1.0000	0.6000
T44	2	7 3/16"	705.00 - 735.00	1.0000	0.6000
T44	3	4 1/16	705.00 - 735.00	1.0000	0.6000
T44	4	3 1/8	705.00 - 735.00	1.0000	0.6000
T44	5	Climbing Ladder	705.00 - 735.00	0.6000	0.6000
T44	6	Safety Line 3/8	705.00 - 735.00	0.6000	0.6000
T44	7	Feedline Ladder (Af)	705.00 - 735.00	0.6000	0.6000
T44	8	1 3/4 Rigid Conduit	705.00 - 735.00	0.6000	0.6000
T44	9	1 5/8	705.00 - 735.00	0.6000	0.6000
T45	1	4 1/16	675.00 - 705.00	1.0000	0.6000
T45	2	7 3/16"	675.00 - 705.00	1.0000	0.6000
T45	3	4 1/16	675.00 - 705.00	1.0000	0.6000
T45	4	3 1/8	675.00 - 705.00	1.0000	0.6000
T45	5	Climbing Ladder	675.00 - 705.00	0.6000	0.6000
T45	6	Safety Line 3/8	675.00 - 705.00	0.6000	0.6000
T45	7	Feedline Ladder (Af)	675.00 - 705.00	0.6000	0.6000
T45	8	1 3/4 Rigid Conduit	675.00 - 705.00	0.6000	0.6000
T45	9	1 5/8	675.00 - 705.00	0.6000	0.6000
T46	1	4 1/16	645.00 - 675.00	1.0000	0.6000
T46	2	7 3/16"	645.00 - 675.00	1.0000	0.6000
T46	3	4 1/16	645.00 - 675.00	1.0000	0.6000
T46	4	3 1/8	645.00 - 675.00	1.0000	0.6000
T46	5	Climbing Ladder	645.00 - 675.00	0.6000	0.6000
T46	6	Safety Line 3/8	645.00 - 675.00	0.6000	0.6000
T46	7	Feedline Ladder (Af)	645.00 - 675.00	0.6000	0.6000
T46	8	1 3/4 Rigid Conduit	645.00 - 675.00	0.6000	0.6000
T46	9	1 5/8	645.00 - 675.00	0.6000	0.6000
T47	1	4 1/16	637.50 - 645.00	1.0000	0.6000
T47	2	7 3/16"	637.50 - 645.00	1.0000	0.6000
T47	3	4 1/16	637.50 - 645.00	1.0000	0.6000
T47	4	3 1/8	637.50 -	1.0000	0.6000

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	Project	1620' GUYED TOWER	Date	11:40:25 11/02/18
	Client	KLFY	Designed by	M.C.

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K _a No Ice	K _a Ice
T47	5	Climbing Ladder	645.00 637.50 - 645.00	0.6000	0.6000
T47	6	Safety Line 3/8	637.50 - 645.00	0.6000	0.6000
T47	7	Feedline Ladder (Af)	637.50 - 645.00	0.6000	0.6000
T47	8	1 3/4 Rigid Conduit	637.50 - 645.00	0.6000	0.6000
T47	9	1 5/8	637.50 - 645.00	0.6000	0.6000
T48	1	4 1/16	630.00 - 637.50	1.0000	0.6000
T48	2	7 3/16"	630.00 - 637.50	1.0000	0.6000
T48	3	4 1/16	630.00 - 637.50	1.0000	0.6000
T48	4	3 1/8	630.00 - 637.50	1.0000	0.6000
T48	5	Climbing Ladder	630.00 - 637.50	0.6000	0.6000
T48	6	Safety Line 3/8	630.00 - 637.50	0.6000	0.6000
T48	7	Feedline Ladder (Af)	630.00 - 637.50	0.6000	0.6000
T48	8	1 3/4 Rigid Conduit	630.00 - 637.50	0.6000	0.6000
T48	9	1 5/8	630.00 - 637.50	0.6000	0.6000
T49	1	4 1/16	622.50 - 630.00	1.0000	0.6000
T49	2	7 3/16"	622.50 - 630.00	1.0000	0.6000
T49	3	4 1/16	622.50 - 630.00	1.0000	0.6000
T49	4	3 1/8	622.50 - 630.00	1.0000	0.6000
T49	5	Climbing Ladder	622.50 - 630.00	0.6000	0.6000
T49	6	Safety Line 3/8	622.50 - 630.00	0.6000	0.6000
T49	7	Feedline Ladder (Af)	622.50 - 630.00	0.6000	0.6000
T49	8	1 3/4 Rigid Conduit	622.50 - 630.00	0.6000	0.6000
T49	9	1 5/8	622.50 - 630.00	0.6000	0.6000
T50	1	4 1/16	615.00 - 622.50	1.0000	0.6000
T50	2	7 3/16"	615.00 - 622.50	1.0000	0.6000
T50	3	4 1/16	615.00 - 622.50	1.0000	0.6000
T50	4	3 1/8	615.00 - 622.50	1.0000	0.6000
T50	5	Climbing Ladder	615.00 - 622.50	0.6000	0.6000
T50	6	Safety Line 3/8	615.00 - 622.50	0.6000	0.6000
T50	7	Feedline Ladder (Af)	615.00 - 622.50	0.6000	0.6000
T50	8	1 3/4 Rigid Conduit	615.00 -	0.6000	0.6000

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	Project	1620' GUYED TOWER	Date	11:40:25 11/02/18
	Client	KLFY	Designed by	M.C.

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K _a No Ice	K _a Ice
			622.50		
T50	9	1 5/8	615.00 -	0.6000	0.6000
			622.50		
T51	1	4 1/16	585.00 -	1.0000	0.6000
			615.00		
T51	2	7 3/16"	585.00 -	1.0000	0.6000
			615.00		
T51	3	4 1/16	585.00 -	1.0000	0.6000
			615.00		
T51	4	3 1/8	585.00 -	1.0000	0.6000
			615.00		
T51	5	Climbing Ladder	585.00 -	0.6000	0.6000
			615.00		
T51	6	Safety Line 3/8	585.00 -	0.6000	0.6000
			615.00		
T51	7	Feedline Ladder (Af)	585.00 -	0.6000	0.6000
			615.00		
T51	8	1 3/4 Rigid Conduit	585.00 -	0.6000	0.6000
			615.00		
T51	9	1 5/8	585.00 -	0.6000	0.6000
			615.00		
T52	1	4 1/16	555.00 -	1.0000	0.6000
			585.00		
T52	2	7 3/16"	555.00 -	1.0000	0.6000
			585.00		
T52	3	4 1/16	555.00 -	1.0000	0.6000
			585.00		
T52	4	3 1/8	555.00 -	1.0000	0.6000
			585.00		
T52	5	Climbing Ladder	555.00 -	0.6000	0.6000
			585.00		
T52	6	Safety Line 3/8	555.00 -	0.6000	0.6000
			585.00		
T52	7	Feedline Ladder (Af)	555.00 -	0.6000	0.6000
			585.00		
T52	8	1 3/4 Rigid Conduit	555.00 -	0.6000	0.6000
			585.00		
T52	9	1 5/8	555.00 -	0.6000	0.6000
			585.00		
T53	1	4 1/16	525.00 -	1.0000	0.6000
			555.00		
T53	2	7 3/16"	525.00 -	1.0000	0.6000
			555.00		
T53	3	4 1/16	525.00 -	1.0000	0.6000
			555.00		
T53	4	3 1/8	525.00 -	1.0000	0.6000
			555.00		
T53	5	Climbing Ladder	525.00 -	0.6000	0.6000
			555.00		
T53	6	Safety Line 3/8	525.00 -	0.6000	0.6000
			555.00		
T53	7	Feedline Ladder (Af)	525.00 -	0.6000	0.6000
			555.00		
T53	8	1 3/4 Rigid Conduit	525.00 -	0.6000	0.6000
			555.00		
T53	9	1 5/8	525.00 -	0.6000	0.6000
			555.00		
T54	1	4 1/16	495.00 -	1.0000	0.6000
			525.00		
T54	2	7 3/16"	495.00 -	1.0000	0.6000
			525.00		
T54	3	4 1/16	495.00 -	1.0000	0.6000

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	Project 1620' GUYED TOWER	Date 11:40:25 11/02/18
	Client KLFY	Designed by M.C.

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K _a No Ice	K _a Ice
			525.00		
T54	4	3 1/8	495.00 -	1.0000	0.6000
			525.00		
T54	5	Climbing Ladder	495.00 -	0.6000	0.6000
			525.00		
T54	6	Safety Line 3/8	495.00 -	0.6000	0.6000
			525.00		
T54	7	Feedline Ladder (Af)	495.00 -	0.6000	0.6000
			525.00		
T54	8	1 3/4 Rigid Conduit	495.00 -	0.6000	0.6000
			525.00		
T54	9	1 5/8	495.00 -	0.6000	0.6000
			525.00		
T55	1	4 1/16	465.00 -	1.0000	0.6000
			495.00		
T55	2	7 3/16"	465.00 -	1.0000	0.6000
			495.00		
T55	3	4 1/16	465.00 -	1.0000	0.6000
			495.00		
T55	4	3 1/8	465.00 -	1.0000	0.6000
			495.00		
T55	5	Climbing Ladder	465.00 -	0.6000	0.6000
			495.00		
T55	6	Safety Line 3/8	465.00 -	0.6000	0.6000
			495.00		
T55	7	Feedline Ladder (Af)	465.00 -	0.6000	0.6000
			495.00		
T55	8	1 3/4 Rigid Conduit	465.00 -	0.6000	0.6000
			495.00		
T55	9	1 5/8	465.00 -	0.6000	0.6000
			495.00		
T56	1	4 1/16	435.00 -	1.0000	0.6000
			465.00		
T56	2	7 3/16"	435.00 -	1.0000	0.6000
			465.00		
T56	3	4 1/16	435.00 -	1.0000	0.6000
			465.00		
T56	4	3 1/8	435.00 -	1.0000	0.6000
			465.00		
T56	5	Climbing Ladder	435.00 -	0.6000	0.6000
			465.00		
T56	6	Safety Line 3/8	435.00 -	0.6000	0.6000
			465.00		
T56	7	Feedline Ladder (Af)	435.00 -	0.6000	0.6000
			465.00		
T56	8	1 3/4 Rigid Conduit	435.00 -	0.6000	0.6000
			465.00		
T56	9	1 5/8	435.00 -	0.6000	0.6000
			465.00		
T56	10	7/8	435.00 -	0.6000	0.6000
			460.00		
T57	1	4 1/16	427.50 -	1.0000	0.6000
			435.00		
T57	2	7 3/16"	427.50 -	1.0000	0.6000
			435.00		
T57	3	4 1/16	427.50 -	1.0000	0.6000
			435.00		
T57	4	3 1/8	427.50 -	1.0000	0.6000
			435.00		
T57	5	Climbing Ladder	427.50 -	0.6000	0.6000
			435.00		
T57	6	Safety Line 3/8	427.50 -	0.6000	0.6000

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	Client	KLFY	Designed by	M.C.

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K _a No Ice	K _a Ice
			435.00		
T57	7	Feedline Ladder (Af)	427.50 - 435.00	0.6000	0.6000
T57	8	1 3/4 Rigid Conduit	427.50 - 435.00	0.6000	0.6000
T57	9	1 5/8	427.50 - 435.00	0.6000	0.6000
T57	10	7/8	427.50 - 435.00	0.6000	0.6000
T58	1	4 1/16	420.00 - 427.50	1.0000	0.6000
T58	2	7 3/16"	420.00 - 427.50	1.0000	0.6000
T58	3	4 1/16	420.00 - 427.50	1.0000	0.6000
T58	4	3 1/8	420.00 - 427.50	1.0000	0.6000
T58	5	Climbing Ladder	420.00 - 427.50	0.6000	0.6000
T58	6	Safety Line 3/8	420.00 - 427.50	0.6000	0.6000
T58	7	Feedline Ladder (Af)	420.00 - 427.50	0.6000	0.6000
T58	8	1 3/4 Rigid Conduit	420.00 - 427.50	0.6000	0.6000
T58	9	1 5/8	420.00 - 427.50	0.6000	0.6000
T58	10	7/8	420.00 - 427.50	0.6000	0.6000
T59	1	4 1/16	412.50 - 420.00	1.0000	0.6000
T59	2	7 3/16"	412.50 - 420.00	1.0000	0.6000
T59	3	4 1/16	412.50 - 420.00	1.0000	0.6000
T59	4	3 1/8	412.50 - 420.00	1.0000	0.6000
T59	5	Climbing Ladder	412.50 - 420.00	0.6000	0.6000
T59	6	Safety Line 3/8	412.50 - 420.00	0.6000	0.6000
T59	7	Feedline Ladder (Af)	412.50 - 420.00	0.6000	0.6000
T59	8	1 3/4 Rigid Conduit	412.50 - 420.00	0.6000	0.6000
T59	9	1 5/8	412.50 - 420.00	0.6000	0.6000
T59	10	7/8	412.50 - 420.00	0.6000	0.6000
T60	1	4 1/16	405.00 - 412.50	1.0000	0.6000
T60	2	7 3/16"	405.00 - 412.50	1.0000	0.6000
T60	3	4 1/16	405.00 - 412.50	1.0000	0.6000
T60	4	3 1/8	405.00 - 412.50	1.0000	0.6000
T60	5	Climbing Ladder	405.00 - 412.50	0.6000	0.6000
T60	6	Safety Line 3/8	405.00 - 412.50	0.6000	0.6000
T60	7	Feedline Ladder (Af)	405.00 -	0.6000	0.6000

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	Project	1620' GUYED TOWER	Date	11:40:25 11/02/18
	Client	KLFY	Designed by	M.C.

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K _a No Ice	K _a Ice
			412.50		
T60	8	1 3/4 Rigid Conduit	405.00 -	0.6000	0.6000
			412.50		
T60	9	1 5/8	405.00 -	0.6000	0.6000
			412.50		
T60	10	7/8	405.00 -	0.6000	0.6000
			412.50		
T61	1	4 1/16	375.00 -	1.0000	0.6000
			405.00		
T61	2	7 3/16"	375.00 -	1.0000	0.6000
			405.00		
T61	3	4 1/16	375.00 -	1.0000	0.6000
			405.00		
T61	4	3 1/8	375.00 -	1.0000	0.6000
			405.00		
T61	5	Climbing Ladder	375.00 -	0.6000	0.6000
			405.00		
T61	6	Safety Line 3/8	375.00 -	0.6000	0.6000
			405.00		
T61	7	Feedline Ladder (Af)	375.00 -	0.6000	0.6000
			405.00		
T61	8	1 3/4 Rigid Conduit	375.00 -	0.6000	0.6000
			405.00		
T61	9	1 5/8	375.00 -	0.6000	0.6000
			405.00		
T61	10	7/8	375.00 -	0.6000	0.6000
			405.00		
T61	11	EW63	375.00 -	0.6000	0.6000
			400.00		
T62	1	4 1/16	345.00 -	1.0000	0.6000
			375.00		
T62	2	7 3/16"	345.00 -	1.0000	0.6000
			375.00		
T62	3	4 1/16	345.00 -	1.0000	0.6000
			375.00		
T62	4	3 1/8	345.00 -	1.0000	0.6000
			375.00		
T62	5	Climbing Ladder	345.00 -	0.6000	0.6000
			375.00		
T62	6	Safety Line 3/8	345.00 -	0.6000	0.6000
			375.00		
T62	7	Feedline Ladder (Af)	345.00 -	0.6000	0.6000
			375.00		
T62	8	1 3/4 Rigid Conduit	345.00 -	0.6000	0.6000
			375.00		
T62	9	1 5/8	345.00 -	0.6000	0.6000
			375.00		
T62	10	7/8	345.00 -	0.6000	0.6000
			375.00		
T62	11	EW63	345.00 -	0.6000	0.6000
			375.00		
T63	1	4 1/16	315.00 -	1.0000	0.6000
			345.00		
T63	2	7 3/16"	315.00 -	1.0000	0.6000
			345.00		
T63	3	4 1/16	315.00 -	1.0000	0.6000
			345.00		
T63	4	3 1/8	315.00 -	1.0000	0.6000
			345.00		
T63	5	Climbing Ladder	315.00 -	0.6000	0.6000
			345.00		
T63	6	Safety Line 3/8	315.00 -	0.6000	0.6000

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	Project 1620' GUYED TOWER	Date 11:40:25 11/02/18
	Client KLFY	Designed by M.C.

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K _a No Ice	K _a Ice
T63	7	Feedline Ladder (Af)	345.00 - 315.00	0.6000	0.6000
T63	8	1 3/4 Rigid Conduit	345.00 - 315.00	0.6000	0.6000
T63	9	1 5/8	345.00 - 315.00	0.6000	0.6000
T63	10	7/8	345.00 - 315.00	0.6000	0.6000
T63	11	EW63	345.00 - 315.00	0.6000	0.6000
T64	1	4 1/16	285.00 - 315.00	1.0000	0.6000
T64	2	7 3/16"	285.00 - 315.00	1.0000	0.6000
T64	3	4 1/16	285.00 - 315.00	1.0000	0.6000
T64	4	3 1/8	285.00 - 315.00	1.0000	0.6000
T64	5	Climbing Ladder	285.00 - 315.00	0.6000	0.6000
T64	6	Safety Line 3/8	285.00 - 315.00	0.6000	0.6000
T64	7	Feedline Ladder (Af)	285.00 - 315.00	0.6000	0.6000
T64	8	1 3/4 Rigid Conduit	285.00 - 315.00	0.6000	0.6000
T64	9	1 5/8	285.00 - 315.00	0.6000	0.6000
T64	10	7/8	285.00 - 315.00	0.6000	0.6000
T64	11	EW63	285.00 - 315.00	0.6000	0.6000
T65	1	4 1/16	255.00 - 285.00	1.0000	0.6000
T65	2	7 3/16"	255.00 - 285.00	1.0000	0.6000
T65	3	4 1/16	255.00 - 285.00	1.0000	0.6000
T65	4	3 1/8	255.00 - 285.00	1.0000	0.6000
T65	5	Climbing Ladder	255.00 - 285.00	0.6000	0.6000
T65	6	Safety Line 3/8	255.00 - 285.00	0.6000	0.6000
T65	7	Feedline Ladder (Af)	255.00 - 285.00	0.6000	0.6000
T65	8	1 3/4 Rigid Conduit	255.00 - 285.00	0.6000	0.6000
T65	9	1 5/8	255.00 - 285.00	0.6000	0.6000
T65	10	7/8	255.00 - 285.00	0.6000	0.6000
T65	11	EW63	255.00 - 285.00	0.6000	0.6000
T66	1	4 1/16	225.00 - 255.00	1.0000	0.6000
T66	2	7 3/16"	225.00 - 255.00	1.0000	0.6000
T66	3	4 1/16	225.00 - 255.00	1.0000	0.6000
T66	4	3 1/8	225.00 - 255.00	1.0000	0.6000

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	Project	1620' GUYED TOWER	Date	11:40:25 11/02/18
	Client	KLFY	Designed by	M.C.

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K _a No Ice	K _a Ice
			255.00		
T66	5	Climbing Ladder	225.00 - 255.00	0.6000	0.6000
T66	6	Safety Line 3/8	225.00 - 255.00	0.6000	0.6000
T66	7	Feedline Ladder (Af)	225.00 - 255.00	0.6000	0.6000
T66	8	1 3/4 Rigid Conduit	225.00 - 255.00	0.6000	0.6000
T66	9	1 5/8	225.00 - 255.00	0.6000	0.6000
T66	10	7/8	225.00 - 255.00	0.6000	0.6000
T66	11	EW63	225.00 - 255.00	0.6000	0.6000
T67	1	4 1/16	195.00 - 225.00	1.0000	0.6000
T67	2	7 3/16"	195.00 - 225.00	1.0000	0.6000
T67	3	4 1/16	195.00 - 225.00	1.0000	0.6000
T67	4	3 1/8	195.00 - 225.00	1.0000	0.6000
T67	5	Climbing Ladder	195.00 - 225.00	0.6000	0.6000
T67	6	Safety Line 3/8	195.00 - 225.00	0.6000	0.6000
T67	7	Feedline Ladder (Af)	195.00 - 225.00	0.6000	0.6000
T67	8	1 3/4 Rigid Conduit	195.00 - 225.00	0.6000	0.6000
T67	9	1 5/8	195.00 - 225.00	0.6000	0.6000
T67	10	7/8	195.00 - 225.00	0.6000	0.6000
T67	11	EW63	195.00 - 225.00	0.6000	0.6000
T68	1	4 1/16	187.50 - 195.00	1.0000	0.6000
T68	2	7 3/16"	187.50 - 195.00	1.0000	0.6000
T68	3	4 1/16	187.50 - 195.00	1.0000	0.6000
T68	4	3 1/8	187.50 - 195.00	1.0000	0.6000
T68	5	Climbing Ladder	187.50 - 195.00	0.6000	0.6000
T68	6	Safety Line 3/8	187.50 - 195.00	0.6000	0.6000
T68	7	Feedline Ladder (Af)	187.50 - 195.00	0.6000	0.6000
T68	8	1 3/4 Rigid Conduit	187.50 - 195.00	0.6000	0.6000
T68	9	1 5/8	187.50 - 195.00	0.6000	0.6000
T68	10	7/8	187.50 - 195.00	0.6000	0.6000
T68	11	EW63	187.50 - 195.00	0.6000	0.6000
T69	1	4 1/16	180.00 - 187.50	1.0000	0.6000
T69	2	7 3/16"	180.00 -	1.0000	0.6000

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	Project 1620' GUYED TOWER	Date 11:40:25 11/02/18
	Client KLFY	Designed by M.C.

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K _a No Ice	K _a Ice
			187.50		
T69	3	4 1/16	180.00 -	1.0000	0.6000
			187.50		
T69	4	3 1/8	180.00 -	1.0000	0.6000
			187.50		
T69	5	Climbing Ladder	180.00 -	0.6000	0.6000
			187.50		
T69	6	Safety Line 3/8	180.00 -	0.6000	0.6000
			187.50		
T69	7	Feedline Ladder (Af)	180.00 -	0.6000	0.6000
			187.50		
T69	8	1 3/4 Rigid Conduit	180.00 -	0.6000	0.6000
			187.50		
T69	9	1 5/8	180.00 -	0.6000	0.6000
			187.50		
T69	10	7/8	180.00 -	0.6000	0.6000
			187.50		
T69	11	EW63	180.00 -	0.6000	0.6000
			187.50		
T70	1	4 1/16	172.50 -	1.0000	0.6000
			180.00		
T70	2	7 3/16"	172.50 -	1.0000	0.6000
			180.00		
T70	3	4 1/16	172.50 -	1.0000	0.6000
			180.00		
T70	4	3 1/8	172.50 -	1.0000	0.6000
			180.00		
T70	5	Climbing Ladder	172.50 -	0.6000	0.6000
			180.00		
T70	6	Safety Line 3/8	172.50 -	0.6000	0.6000
			180.00		
T70	7	Feedline Ladder (Af)	172.50 -	0.6000	0.6000
			180.00		
T70	8	1 3/4 Rigid Conduit	172.50 -	0.6000	0.6000
			180.00		
T70	9	1 5/8	172.50 -	0.6000	0.6000
			180.00		
T70	10	7/8	172.50 -	0.6000	0.6000
			180.00		
T70	11	EW63	172.50 -	0.6000	0.6000
			180.00		
T70	12	CAT5	172.50 -	0.6000	0.6000
			180.00		
T71	1	4 1/16	165.00 -	1.0000	0.6000
			172.50		
T71	2	7 3/16"	165.00 -	1.0000	0.6000
			172.50		
T71	3	4 1/16	165.00 -	1.0000	0.6000
			172.50		
T71	4	3 1/8	165.00 -	1.0000	0.6000
			172.50		
T71	5	Climbing Ladder	165.00 -	0.6000	0.6000
			172.50		
T71	6	Safety Line 3/8	165.00 -	0.6000	0.6000
			172.50		
T71	7	Feedline Ladder (Af)	165.00 -	0.6000	0.6000
			172.50		
T71	8	1 3/4 Rigid Conduit	165.00 -	0.6000	0.6000
			172.50		
T71	9	1 5/8	165.00 -	0.6000	0.6000
			172.50		
T71	10	7/8	165.00 -	0.6000	0.6000

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	Project 1620' GUYED TOWER	Date 11:40:25 11/02/18
	Client KLFY	Designed by M.C.

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K _a No Ice	K _a Ice
			172.50		
T71	11	EW63	165.00 - 172.50	0.6000	0.6000
T71	12	CAT5	165.00 - 172.50	0.6000	0.6000
T72	1	4 1/16	135.00 - 165.00	1.0000	0.6000
T72	2	7 3/16"	135.00 - 165.00	1.0000	0.6000
T72	3	4 1/16	135.00 - 165.00	1.0000	0.6000
T72	4	3 1/8	135.00 - 165.00	1.0000	0.6000
T72	5	Climbing Ladder	135.00 - 165.00	0.6000	0.6000
T72	6	Safety Line 3/8	135.00 - 165.00	0.6000	0.6000
T72	7	Feedline Ladder (Af)	135.00 - 165.00	0.6000	0.6000
T72	8	1 3/4 Rigid Conduit	135.00 - 165.00	0.6000	0.6000
T72	9	1 5/8	135.00 - 165.00	0.6000	0.6000
T72	10	7/8	135.00 - 165.00	0.6000	0.6000
T72	11	EW63	135.00 - 165.00	0.6000	0.6000
T72	12	CAT5	135.00 - 165.00	0.6000	0.6000
T73	1	4 1/16	105.00 - 135.00	1.0000	0.6000
T73	2	7 3/16"	105.00 - 135.00	1.0000	0.6000
T73	3	4 1/16	105.00 - 135.00	1.0000	0.6000
T73	4	3 1/8	105.00 - 135.00	1.0000	0.6000
T73	5	Climbing Ladder	105.00 - 135.00	0.6000	0.6000
T73	6	Safety Line 3/8	105.00 - 135.00	0.6000	0.6000
T73	7	Feedline Ladder (Af)	105.00 - 135.00	0.6000	0.6000
T73	8	1 3/4 Rigid Conduit	105.00 - 135.00	0.6000	0.6000
T73	9	1 5/8	105.00 - 135.00	0.6000	0.6000
T73	10	7/8	105.00 - 135.00	0.6000	0.6000
T73	11	EW63	105.00 - 135.00	0.6000	0.6000
T73	12	CAT5	105.00 - 135.00	0.6000	0.6000
T74	1	4 1/16	75.00 - 105.00	1.0000	0.6000
T74	2	7 3/16"	75.00 - 105.00	1.0000	0.6000
T74	3	4 1/16	75.00 - 105.00	1.0000	0.6000
T74	4	3 1/8	75.00 - 105.00	1.0000	0.6000
T74	5	Climbing Ladder	75.00 - 105.00	0.6000	0.6000
T74	6	Safety Line 3/8	75.00 - 105.00	0.6000	0.6000
T74	7	Feedline Ladder (Af)	75.00 - 105.00	0.6000	0.6000
T74	8	1 3/4 Rigid Conduit	75.00 - 105.00	0.6000	0.6000
T74	9	1 5/8	75.00 - 105.00	0.6000	0.6000

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	Project	1620' GUYED TOWER	Date	11:40:25 11/02/18
	Client	KLFY	Designed by	M.C.

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K _a No Ice	K _a Ice
T74	10	7/8	75.00 - 105.00	0.6000	0.6000
T74	11	EW63	75.00 - 105.00	0.6000	0.6000
T74	12	CAT5	75.00 - 105.00	0.6000	0.6000
T75	1	4 1/16	45.00 - 75.00	1.0000	0.6000
T75	2	7 3/16"	45.00 - 75.00	1.0000	0.6000
T75	3	4 1/16	45.00 - 75.00	1.0000	0.6000
T75	4	3 1/8	45.00 - 75.00	1.0000	0.6000
T75	5	Climbing Ladder	45.00 - 75.00	0.6000	0.6000
T75	6	Safety Line 3/8	45.00 - 75.00	0.6000	0.6000
T75	7	Feedline Ladder (Af)	45.00 - 75.00	0.6000	0.6000
T75	8	1 3/4 Rigid Conduit	45.00 - 75.00	0.6000	0.6000
T75	9	1 5/8	45.00 - 75.00	0.6000	0.6000
T75	10	7/8	45.00 - 75.00	0.6000	0.6000
T75	11	EW63	45.00 - 75.00	0.6000	0.6000
T75	12	CAT5	45.00 - 75.00	0.6000	0.6000
T76	1	4 1/16	37.50 - 45.00	1.0000	0.6000
T76	2	7 3/16"	37.50 - 45.00	1.0000	0.6000
T76	3	4 1/16	37.50 - 45.00	1.0000	0.6000
T76	4	3 1/8	37.50 - 45.00	1.0000	0.6000
T76	5	Climbing Ladder	37.50 - 45.00	0.6000	0.6000
T76	6	Safety Line 3/8	37.50 - 45.00	0.6000	0.6000
T76	7	Feedline Ladder (Af)	37.50 - 45.00	0.6000	0.6000
T76	8	1 3/4 Rigid Conduit	37.50 - 45.00	0.6000	0.6000
T76	9	1 5/8	37.50 - 45.00	0.6000	0.6000
T76	10	7/8	37.50 - 45.00	0.6000	0.6000
T76	11	EW63	37.50 - 45.00	0.6000	0.6000
T76	12	CAT5	37.50 - 45.00	0.6000	0.6000
T77	1	4 1/16	30.00 - 37.50	1.0000	0.6000
T77	2	7 3/16"	30.00 - 37.50	1.0000	0.6000
T77	3	4 1/16	30.00 - 37.50	1.0000	0.6000
T77	4	3 1/8	30.00 - 37.50	1.0000	0.6000
T77	5	Climbing Ladder	30.00 - 37.50	0.6000	0.6000
T77	6	Safety Line 3/8	30.00 - 37.50	0.6000	0.6000
T77	7	Feedline Ladder (Af)	30.00 - 37.50	0.6000	0.6000
T77	8	1 3/4 Rigid Conduit	30.00 - 37.50	0.6000	0.6000
T77	9	1 5/8	30.00 - 37.50	0.6000	0.6000
T77	10	7/8	30.00 - 37.50	0.6000	0.6000
T77	11	EW63	30.00 - 37.50	0.6000	0.6000
T77	12	CAT5	30.00 - 37.50	0.6000	0.6000
T78	1	4 1/16	22.50 - 30.00	1.0000	0.6000
T78	2	7 3/16"	22.50 - 30.00	1.0000	0.6000
T78	3	4 1/16	22.50 - 30.00	1.0000	0.6000
T78	4	3 1/8	22.50 - 30.00	1.0000	0.6000
T78	5	Climbing Ladder	22.50 - 30.00	0.6000	0.6000
T78	6	Safety Line 3/8	22.50 - 30.00	0.6000	0.6000
T78	7	Feedline Ladder (Af)	22.50 - 30.00	0.6000	0.6000
T78	8	1 3/4 Rigid Conduit	22.50 - 30.00	0.6000	0.6000
T78	9	1 5/8	22.50 - 30.00	0.6000	0.6000
T78	10	7/8	22.50 - 30.00	0.6000	0.6000
T78	11	EW63	22.50 - 30.00	0.6000	0.6000
T78	12	CAT5	22.50 - 30.00	0.6000	0.6000
T79	1	4 1/16	15.00 - 22.50	1.0000	0.6000
T79	2	7 3/16"	15.00 - 22.50	1.0000	0.6000
T79	3	4 1/16	15.00 - 22.50	1.0000	0.6000
T79	4	3 1/8	15.00 - 22.50	0.6000	0.6000
T79	5	Climbing Ladder	15.00 - 22.50	0.6000	0.6000
T79	6	Safety Line 3/8	15.00 - 22.50	0.6000	0.6000
T79	7	Feedline Ladder (Af)	15.00 - 22.50	0.6000	0.6000
T79	8	1 3/4 Rigid Conduit	15.00 - 22.50	0.6000	0.6000
T79	9	1 5/8	15.00 - 22.50	0.6000	0.6000
T79	10	7/8	15.00 - 22.50	0.6000	0.6000
T79	11	EW63	15.00 - 22.50	0.6000	0.6000

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	Project 1620' GUYED TOWER	Date 11:40:25 11/02/18
	Client KLFY	Designed by M.C.

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K_a No Ice	K_a Ice
T79	12	CAT5	15.00 - 22.50	0.6000	0.6000
T79	13	1/4	15.00 - 16.00	0.6000	0.6000
T80	1	4 1/16	10.00 - 15.00	1.0000	0.3617
T80	2	7 3/16"	10.00 - 15.00	1.0000	0.3617
T80	3	4 1/16	10.00 - 15.00	1.0000	0.3617
T80	4	3 1/8	10.00 - 15.00	0.4838	0.3617
T80	5	Climbing Ladder	10.00 - 15.00	0.4838	0.3617
T80	6	Safety Line 3/8	10.00 - 15.00	0.4838	0.3617
T80	7	Feedline Ladder (Af)	10.00 - 15.00	0.4838	0.3617
T80	8	1 3/4 Rigid Conduit	10.00 - 15.00	0.4838	0.3617
T80	9	1 5/8	10.00 - 15.00	0.4838	0.3617
T80	10	7/8	10.00 - 15.00	0.4838	0.3617
T80	11	EW63	10.00 - 15.00	0.4838	0.3617
T80	12	CAT5	10.00 - 15.00	0.4838	0.3617
T80	13	1/4	10.00 - 15.00	0.4838	0.3617

Force Couples At Top Of Tower - RCA TW-12A10 & TAD-24UDE-5/60-MRST (DIELECTRIC DELTA STAR ANTENNA)

Description	Shear	Vertical	Moment	Torque
	K	K	kip-ft	kip-ft
No Ice	17.400	41.700	794.700	0.000
With Ice	0.000	0.000	0.000	0.000

Discrete Tower Loads

Description	Face or Leg	Offset Type	Offsets: Horz Lateral Vert	Azimuth Adjustment	Placement	$C_A A_A$ Front	$C_A A_A$ Side	Weight	
			ft ft ft	°	ft	ft ²	ft ²	K	
KLPB DIELECTRIC ANTENNA	B	From Leg	4.000	0.0000	1552'	No Ice	16.000	16.000	0.500
			0'			1/2" Ice	22.984	22.984	0.657
			0'			1" Ice	24.200	24.200	0.828
Side Mount Standoff (1)	B	From Leg	4.000	0.0000	1562'	No Ice	4.970	4.970	0.070
			0'			1/2" Ice	6.120	6.120	0.130
			0'			1" Ice	7.270	7.270	0.190
Side Mount Standoff (1)	B	From Leg	4.000	0.0000	1542'	No Ice	4.970	4.970	0.070
			0'			1/2" Ice	6.120	6.120	0.130
			0'			1" Ice	7.270	7.270	0.190
ERI 12 BAY FM ANTENNA	C	From Leg	4.000	0.0000	950'	No Ice	60.200	60.200	0.680
			0'			1/2" Ice	80.300	80.300	2.195
			0'			1" Ice	100.400	100.400	4.389
30' WHIP ANTENNA	B	From Leg	3.000	0.0000	960'	No Ice	7.801	7.801	0.090
			0'			1/2" Ice	12.033	12.033	0.155
			15'			1" Ice	15.083	15.083	0.238
Side Mount Standoff (1)	B	From Leg	2.000	0.0000	960'	No Ice	4.970	4.970	0.070
			0'			1/2" Ice	6.120	6.120	0.130

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	Client KLFY	Designed by M.C.

Description	Face or Leg	Offset Type	Offsets: Horz Lateral Vert	Azimuth Adjustment	Placement	C _{AA} Front	C _{AA} Side	Weight
			ft ft ft	°	ft	ft ²	ft ²	K
PANEL ANTENNA	C	From Leg	2.000 0' 0'	0.0000	180'	1" Ice 7.270 No Ice 5.508	7.270 3.819	0.190 0.060
			0'			1/2" Ice 5.867	4.175	0.097
			0'			1" Ice 6.233	4.529	0.139
GPS	C	None		0.0000	16'	No Ice 0.039	0.039	0.015
						1/2" Ice 0.071	0.071	0.016
						1" Ice 0.113	0.113	0.017

Dishes

Description	Face or Leg	Dish Type	Offset Type	Offsets: Horz Lateral Vert	Azimuth Adjustment	3 dB Beam Width	Elevation	Outside Diameter	Aperture Area	Weight
				ft ft ft	°	°	ft	ft	ft ²	K
10' GRID DISH	B	Grid	From Leg	2.000 0' 0'	0.0000		460'	10.000	No Ice 78.500 1/2" Ice 79.814 1" Ice 81.128	0.418 0.828 1.237
10' RFS DISH	B	Paraboloid w/o Radome	From Leg	2.000 0' 0'	0.0000		400'	10.000	No Ice 78.540 1/2" Ice 79.814 1" Ice 81.088	0.317 0.727 1.136
MICROWAVE DISH	C	Paraboloid w/o Radome	From Face	1.000 -5' 0'	0.0000		180'	4.000	No Ice 12.560 1/2" Ice 13.089 1" Ice 13.618	0.170 0.237 0.304

Tower Pressures - No Ice

$G_H = 0.850$

Section Elevation	z	K _Z	q _z	A _G	F _a	A _F	A _R	A _{leg}	Leg %	C _{AA} In Face	C _{AA} Out Face
ft	ft		psf	ft ²	c	ft ²	ft ²	ft ²		ft ²	ft ²
T1 1620'-1612'6"	1616'3"	2.01	70.48 1	78.125	A B C	14.195 14.195 14.195	6.250 6.250 6.250	6.250	30.57 30.57 30.57	2.456 4.875 4.665	0.000 0.000 0.000
T2 1612'6"-1605'	1608'9"	2.01	70.48 1	78.125	A B C	12.035 12.035 12.035	6.250 6.250 6.250	6.250	34.18 34.18 34.18	2.456 4.875 4.665	0.000 0.000 0.000
T3 1605'-1575'	1590'	2.01	70.48 1	312.500	A B C	22.833 22.833 22.833	25.000 25.000 25.000	25.000	52.26 52.26 52.26	9.825 19.500 18.661	0.000 0.000 0.000
T4 1575'-1545'	1560'	2.01	70.48 1	312.500	A B C	22.833 22.833 22.833	25.000 25.000 25.000	25.000	52.26 52.26 52.26	9.825 19.500 20.481	0.000 0.000 0.000
T5 1545'-1515'	1530'	2.01	70.48 1	312.500	A B	22.833 22.833	25.000 25.000	25.000	52.26 52.26	9.825 19.500	0.000 0.000

tnxTower TASHJIAN TOWERS CORP. 2765 S. TEMPERANCE AVE. FOWLER, CA. 93625 Phone: (559) 834-4300 FAX: (559) 834-4377	Job LAFAYETTE	Page 63 of 134
	Project 1620' GUYED TOWER	Date 11:40:25 11/02/18
	Client KLFY	Designed by M.C.

Section Elevation ft	z ft	K _Z	q _z psf	A _G ft ²	F a c e	A _F ft ²	A _R ft ²	A _{leg} ft ²	Leg %	C _{AA} In Face ft ²	C _{AA} Out Face ft ²
T6 1515'-1485'	1500'	2.01	70.48 1	312.500	C	22.833	25.000		52.26	26.462	0.000
					A	22.833	25.000	25.000	52.26	9.825	0.000
					B	22.833	25.000		52.26	19.500	0.000
					C	22.833	25.000		52.26	26.462	0.000
T7 1485'-1455'	1470'	2.01	70.48 1	312.500	A	22.833	25.000	25.000	52.26	9.825	0.000
					B	22.833	25.000		52.26	19.500	0.000
					C	22.833	25.000		52.26	26.462	0.000
T8 1455'-1447'6"	1451'3"	2.01	70.48 1	78.438	A	6.030	6.875	6.875	53.27	2.456	0.000
					B	6.030	6.875		53.27	4.875	0.000
					C	6.030	6.875		53.27	6.616	0.000
T9 1447'6"-1440'	1443'9"	2.01	70.48 1	78.438	A	6.021	6.875	6.875	53.31	2.456	0.000
					B	6.021	6.875		53.31	4.875	0.000
					C	6.021	6.875		53.31	6.616	0.000
T10 1440'-1432'6"	1436'3"	2.01	70.48 1	78.438	A	10.395	6.875	6.875	39.81	2.456	0.000
					B	10.395	6.875		39.81	4.875	0.000
					C	10.395	6.875		39.81	6.616	0.000
T11 1432'6"-1425'	1428'9"	2.01	70.48 1	78.438	A	6.021	6.875	6.875	53.31	2.456	0.000
					B	6.021	6.875		53.31	4.875	0.000
					C	6.021	6.875		53.31	6.616	0.000
T12 1425'-1395'	1410'	2.01	70.48 1	313.750	A	22.736	27.500	27.500	54.74	9.825	0.000
					B	22.736	27.500		54.74	19.500	0.000
					C	22.736	27.500		54.74	26.462	0.000
T13 1395'-1365'	1380'	2.01	70.48 1	313.750	A	22.736	27.500	27.500	54.74	9.825	0.000
					B	22.736	27.500		54.74	19.500	0.000
					C	22.736	27.500		54.74	26.462	0.000
T14 1365'-1335'	1350'	2.01	70.48 1	313.750	A	22.736	27.500	27.500	54.74	9.825	0.000
					B	22.736	27.500		54.74	19.500	0.000
					C	22.736	27.500		54.74	26.462	0.000
T15 1335'-1305'	1320'	2.01	70.48 1	313.750	A	22.736	27.500	27.500	54.74	9.825	0.000
					B	22.736	27.500		54.74	19.500	0.000
					C	22.736	27.500		54.74	26.462	0.000
T16 1305'-1275'	1290'	2.01	70.48 1	315.000	A	22.647	30.000	30.000	56.98	9.825	0.000
					B	22.647	30.000		56.98	19.500	0.000
					C	22.647	30.000		56.98	26.462	0.000
T17 1275'-1245'	1260'	2.01	70.48 1	315.000	A	22.639	30.000	30.000	56.99	9.825	0.000
					B	22.639	30.000		56.99	19.500	0.000
					C	22.639	30.000		56.99	26.462	0.000
T18 1245'-1237'6"	1241'3"	2.01	70.48 1	78.750	A	5.997	7.500	7.500	55.57	2.456	0.000
					B	5.997	7.500		55.57	4.875	0.000
					C	5.997	7.500		55.57	6.616	0.000
T19 1237'6"-1230'	1233'9"	2.01	70.48 1	78.750	A	5.997	7.500	7.500	55.57	2.456	0.000
					B	5.997	7.500		55.57	4.875	0.000
					C	5.997	7.500		55.57	6.616	0.000
T20 1230'-1222'6"	1226'3"	2.01	70.48 1	78.750	A	10.351	7.500	7.500	42.01	2.456	0.000
					B	10.351	7.500		42.01	4.875	0.000
					C	10.351	7.500		42.01	6.616	0.000
T21 1222'6"-1215'	1218'9"	2.01	70.48 1	78.750	A	5.997	7.500	7.500	55.57	2.456	0.000
					B	5.997	7.500		55.57	4.875	0.000
					C	5.997	7.500		55.57	6.616	0.000
T22 1215'-1185'	1200'	2.01	70.48 1	315.000	A	22.639	30.000	30.000	56.99	9.825	0.000
					B	22.639	30.000		56.99	19.500	0.000
					C	22.639	30.000		56.99	26.462	0.000
T23 1185'-1155'	1170'	2.01	70.48 1	315.000	A	22.639	30.000	30.000	56.99	9.825	0.000
					B	22.639	30.000		56.99	19.500	0.000
					C	22.639	30.000		56.99	26.462	0.000
T24 1155'-1125'	1140'	2.01	70.48 1	315.000	A	22.639	30.000	30.000	56.99	9.825	0.000
					B	22.639	30.000		56.99	19.500	0.000
					C	22.639	30.000		56.99	26.462	0.000
T25 1125'-1095'	1110'	2.01	70.48 1	315.000	A	22.639	30.000	30.000	56.99	9.825	0.000
					B	22.639	30.000		56.99	19.500	0.000

tnxTower TASHJIAN TOWERS CORP. 2765 S. TEMPERANCE AVE. FOWLER, CA. 93625 Phone: (559) 834-4300 FAX: (559) 834-4377	Job LAFAYETTE	Page 64 of 134
	Project 1620' GUYED TOWER	Date 11:40:25 11/02/18
	Client KLFY	Designed by M.C.

Section Elevation	z	K _Z	q _z	A _G	F a c e	A _F	A _R	A _{leg}	Leg %	C _{AA} In Face ft ²	C _{AA} Out Face ft ²
ft	ft		psf	ft ²		ft ²	ft ²	ft ²			
T26 1095'-1065'	1080'	2.01	70.48 1	316.250	C A B C	22.639 22.550 22.550 22.550	30.000 32.500 32.500 32.500		56.99 59.04 59.04 59.04	26.462 9.825 19.500 26.462	0.000 0.000 0.000 0.000
T27 1065'-1057'6"	1061'3"	2.01	70.48 1	79.063	A B C	5.973 5.973 5.973	8.125 8.125 8.125	8.125	57.63 57.63 57.63	2.456 4.875 6.616	0.000 0.000 0.000
T28 1057'6"-1050'	1053'9"	2.01	70.48 1	79.063	A B C	5.973 5.973 5.973	8.125 8.125 8.125	8.125	57.63 57.63 57.63	2.456 4.875 6.616	0.000 0.000 0.000
T29 1050'-1042'6"	1046'3"	2.01	70.48 1	79.063	A B C	10.308 10.308 10.308	8.125 8.125 8.125	8.125	44.08 44.08 44.08	2.456 4.875 6.616	0.000 0.000 0.000
T30 1042'6"-1035'	1038'9"	2.01	70.48 1	79.063	A B C	5.973 5.973 5.973	8.125 8.125 8.125	8.125	57.63 57.63 57.63	2.456 4.875 6.616	0.000 0.000 0.000
T31 1035'-1005'	1020'	2.01	70.48 1	316.250	A B C	22.541 22.541 22.541	32.500 32.500 32.500	32.500	59.05 59.05 59.05	9.825 19.500 26.462	0.000 0.000 0.000
T32 1005'-975'	990'	2.01	70.48 1	316.250	A B C	22.541 22.541 22.541	32.500 32.500 32.500	32.500	59.05 59.05 59.05	9.825 19.500 26.462	0.000 0.000 0.000
T33 975'-945'	960'	2.01	70.48 1	316.250	A B C	22.541 22.541 22.541	32.500 32.500 32.500	32.500	59.05 59.05 59.05	9.825 22.470 27.763	0.000 0.000 0.000
T34 945'-915'	930'	2.01	70.48 1	316.250	A B C	22.541 22.541 22.541	32.500 32.500 32.500	32.500	59.05 59.05 59.05	9.825 25.440 34.264	0.000 0.000 0.000
T35 915'-885'	900'	2.01	70.48 1	316.250	A B C	22.541 22.541 22.541	32.500 32.500 32.500	32.500	59.05 59.05 59.05	9.825 25.440 34.264	0.000 0.000 0.000
T36 885'-877'6"	881'3"	2.001	70.16 9	79.063	A B C	5.973 5.973 5.973	8.125 8.125 8.125	8.125	57.63 57.63 57.63	2.456 6.360 8.579	0.000 0.000 0.000
T37 877'6"-870'	873'9"	1.998	70.04 3	79.063	A B C	5.973 5.973 5.973	8.125 8.125 8.125	8.125	57.63 57.63 57.63	2.456 6.360 8.584	0.000 0.000 0.000
T38 870'-862'6"	866'3"	1.994	69.91 6	79.063	A B C	10.308 10.308 10.308	8.125 8.125 8.125	8.125	44.08 44.08 44.08	2.456 6.360 8.589	0.000 0.000 0.000
T39 862'6"-855'	858'9"	1.99	69.78 8	79.063	A B C	5.973 5.973 5.973	8.125 8.125 8.125	8.125	57.63 57.63 57.63	2.456 6.360 8.595	0.000 0.000 0.000
T40 855'-825'	840'	1.981	69.46 4	316.250	A B C	22.541 22.541 22.541	32.500 32.500 32.500	32.500	59.05 59.05 59.05	9.825 25.440 34.434	0.000 0.000 0.000
T41 825'-795'	810'	1.966	68.93 4	316.250	A B C	22.541 22.541 22.541	32.500 32.500 32.500	32.500	59.05 59.05 59.05	9.825 25.440 34.525	0.000 0.000 0.000
T42 795'-765'	780'	1.95	68.38 9	316.250	A B C	22.541 22.541 22.541	32.500 32.500 32.500	32.500	59.05 59.05 59.05	9.825 25.440 34.619	0.000 0.000 0.000
T43 765'-735'	750'	1.934	67.82 7	316.250	A B C	22.541 22.541 22.541	32.500 32.500 32.500	32.500	59.05 59.05 59.05	9.825 25.440 34.717	0.000 0.000 0.000
T44 735'-705'	720'	1.918	67.24 6	316.250	A B C	22.541 22.541 22.541	32.500 32.500 32.500	32.500	59.05 59.05 59.05	9.825 25.440 34.820	0.000 0.000 0.000
T45 705'-675'	690'	1.901	66.64 6	316.250	A B	22.541 22.541	32.500 32.500	32.500	59.05 59.05	9.825 25.440	0.000 0.000

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	Project 1620' GUYED TOWER	Date 11:40:25 11/02/18
	Client KLFY	Designed by M.C.

Section Elevation	z	K _Z	q _z	A _G	F a c e	A _F	A _R	A _{leg}	Leg %	C _{AA} In Face ft ²	C _{AA} Out Face ft ²
ft	ft		psf	ft ²		ft ²	ft ²	ft ²			
T46 675'-645'	660'	1.883	66.02 6	317.500	C	22.541	32.500		59.05	34.927	0.000
					A	22.453	35.000	35.000	60.92	9.825	0.000
					B	22.453	35.000		60.92	25.440	0.000
					C	22.453	35.000		60.92	35.040	0.000
T47 645'-637'6"	641'3"	1.872	65.62 6	79.375	A	5.949	8.750	8.750	59.53	2.456	0.000
					B	5.949	8.750		59.53	6.360	0.000
					C	5.949	8.750		59.53	8.778	0.000
T48 637'6"-630'	633'9"	1.867	65.46 4	79.375	A	10.264	8.750	8.750	46.02	2.456	0.000
					B	10.264	8.750		46.02	6.360	0.000
					C	10.264	8.750		46.02	8.786	0.000
T49 630'-622'6"	626'3"	1.862	65.30 0	79.375	A	5.949	8.750	8.750	59.53	2.456	0.000
					B	5.949	8.750		59.53	6.360	0.000
					C	5.949	8.750		59.53	8.794	0.000
T50 622'6"-615'	618'9"	1.858	65.13 4	79.375	A	5.949	8.750	8.750	59.53	2.456	0.000
					B	5.949	8.750		59.53	6.360	0.000
					C	5.949	8.750		59.53	8.801	0.000
T51 615'-585'	600'	1.846	64.71 4	317.500	A	22.444	35.000	35.000	60.93	9.825	0.000
					B	22.444	35.000		60.93	25.440	0.000
					C	22.444	35.000		60.93	35.284	0.000
T52 585'-555'	570'	1.826	64.01 9	317.500	A	22.444	35.000	35.000	60.93	9.825	0.000
					B	22.444	35.000		60.93	25.440	0.000
					C	22.444	35.000		60.93	35.416	0.000
T53 555'-525'	540'	1.805	63.29 4	317.500	A	22.444	35.000	35.000	60.93	9.825	0.000
					B	22.444	35.000		60.93	25.440	0.000
					C	22.444	35.000		60.93	35.557	0.000
T54 525'-495'	510'	1.783	62.53 7	317.500	A	22.444	35.000	35.000	60.93	9.825	0.000
					B	22.444	35.000		60.93	25.440	0.000
					C	22.444	35.000		60.93	35.706	0.000
T55 495'-465'	480'	1.761	61.74 4	317.500	A	22.444	35.000	35.000	60.93	9.825	0.000
					B	22.444	35.000		60.93	25.440	0.000
					C	22.444	35.000		60.93	35.865	0.000
T56 465'-435'	450'	1.737	60.91 1	317.500	A	22.444	35.000	35.000	60.93	9.825	0.000
					B	22.444	35.000		60.93	28.215	0.000
					C	22.444	35.000		60.93	36.035	0.000
T57 435'-427'6"	431'3"	1.722	60.36 8	79.688	A	5.933	9.375	9.375	61.24	2.456	0.000
					B	5.933	9.375		61.24	7.193	0.000
					C	5.933	9.375		61.24	9.037	0.000
T58 427'6"-420'	423'9"	1.715	60.14 5	79.688	A	5.924	9.375	9.375	61.28	2.456	0.000
					B	5.924	9.375		61.28	7.193	0.000
					C	5.924	9.375		61.28	9.049	0.000
T59 420'-412'6"	416'3"	1.709	59.91 9	79.688	A	10.221	9.375	9.375	47.84	2.456	0.000
					B	10.221	9.375		47.84	7.193	0.000
					C	10.221	9.375		47.84	9.061	0.000
T60 412'6"-405'	408'9"	1.702	59.69 0	79.688	A	5.924	9.375	9.375	61.28	2.456	0.000
					B	5.924	9.375		61.28	7.193	0.000
					C	5.924	9.375		61.28	9.073	0.000
T61 405'-375'	390'	1.686	59.10 3	318.750	A	22.347	37.500	37.500	62.66	9.825	0.000
					B	22.347	37.500		62.66	32.706	0.000
					C	22.347	37.500		62.66	36.417	0.000
T62 375'-345'	360'	1.657	58.11 6	318.750	A	22.347	37.500	37.500	62.66	9.825	0.000
					B	22.347	37.500		62.66	33.493	0.000
					C	22.347	37.500		62.66	36.633	0.000
T63 345'-315'	330'	1.627	57.06 1	318.750	A	22.347	37.500	37.500	62.66	9.825	0.000
					B	22.347	37.500		62.66	33.493	0.000
					C	22.347	37.500		62.66	36.871	0.000
T64 315'-285'	300'	1.595	55.92 7	318.750	A	22.347	37.500	37.500	62.66	9.825	0.000
					B	22.347	37.500		62.66	33.493	0.000
					C	22.347	37.500		62.66	37.133	0.000
T65 285'-255'	270'	1.56	54.70 0	318.750	A	22.347	37.500	37.500	62.66	9.825	0.000
					B	22.347	37.500		62.66	33.493	0.000

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	Project 1620' GUYED TOWER	Date 11:40:25 11/02/18
	Client KLFY	Designed by M.C.

Section Elevation ft	z ft	K _Z	q _z psf	A _G ft ²	F a c e	A _F ft ²	A _R ft ²	A _{leg} ft ²	Leg %	C _{AA} In Face ft ²	C _{AA} Out Face ft ²
T66 255'-225'	240'	1.522	53.36 1	318.750	C	22.347	37.500		62.66	37.426	0.000
					A	22.347	37.500	37.500	62.66	9.825	0.000
					B	22.347	37.500		62.66	33.493	0.000
					C	22.347	37.500		62.66	37.757	0.000
T67 225'-195'	210'	1.48	51.88 1	318.750	A	22.347	37.500	37.500	62.66	9.825	0.000
					B	22.347	37.500		62.66	33.493	0.000
					C	22.347	37.500		62.66	38.138	0.000
T68 195'-187'6"	191'3"	1.451	50.87 0	79.688	A	10.221	9.375	9.375	47.84	2.456	0.000
					B	10.221	9.375		47.84	8.373	0.000
					C	10.221	9.375		47.84	9.602	0.000
T69 187'6"-180'	183'9"	1.439	50.44 3	79.688	A	5.924	9.375	9.375	61.28	2.456	0.000
					B	5.924	9.375		61.28	8.373	0.000
					C	5.924	9.375		61.28	9.631	0.000
T70 180'-172'6"	176'3"	1.426	50.00 3	79.688	A	5.924	9.375	9.375	61.28	2.456	0.000
					B	5.924	9.375		61.28	8.748	0.000
					C	5.924	9.375		61.28	9.661	0.000
T71 172'6"-165'	168'9"	1.413	49.54 7	79.688	A	5.924	9.375	9.375	61.28	2.456	0.000
					B	5.924	9.375		61.28	8.748	0.000
					C	5.924	9.375		61.28	9.693	0.000
T72 165'-135'	150'	1.378	48.33 3	318.750	A	22.347	37.500	37.500	62.66	9.825	0.000
					B	22.347	37.500		62.66	34.993	0.000
					C	22.347	37.500		62.66	39.091	0.000
T73 135'-105'	120'	1.315	46.11 5	318.750	A	22.347	37.500	37.500	62.66	9.825	0.000
					B	22.347	37.500		62.66	34.993	0.000
					C	22.347	37.500		62.66	39.539	0.000
T74 105'-75'	90'	1.238	43.40 5	318.750	A	22.347	37.500	37.500	62.66	9.825	0.000
					B	22.347	37.500		62.66	34.993	0.000
					C	22.347	37.500		62.66	40.132	0.000
T75 75'-45'	60'	1.137	39.85 4	318.750	A	22.347	37.500	37.500	62.66	9.825	0.000
					B	22.347	37.500		62.66	34.993	0.000
					C	22.347	37.500		62.66	40.999	0.000
T76 45'-37'6"	41'3"	1.05	36.83 1	79.688	A	5.924	9.375	9.375	61.28	2.456	0.000
					B	5.924	9.375		61.28	8.748	0.000
					C	5.924	9.375		61.28	10.458	0.000
T77 37'6"-30'	33'9"	1.007	35.30 7	79.688	A	8.659	9.375	9.375	51.99	2.456	0.000
					B	8.659	9.375		51.99	8.748	0.000
					C	8.659	9.375		51.99	10.614	0.000
T78 30'-22'6"	26'3"	0.955	33.48 8	79.688	A	11.784	9.375	9.375	44.31	2.456	0.000
					B	11.784	9.375		44.31	8.748	0.000
					C	11.784	9.375		44.31	10.836	0.000
T79 22'6"-15'	18'9"	0.89	31.19 8	79.688	A	7.487	9.375	9.375	55.60	2.456	0.000
					B	7.487	9.375		55.60	8.783	0.000
					C	7.487	9.375		55.60	11.142	0.000
T80 15'-0'	7'6"	0.85	29.80 5	84.882	A	23.722	20.091	20.091	45.86	1.638	0.000
					B	23.722	20.091		45.86	6.007	0.000
					C	23.722	20.091		45.86	7.563	0.000

Tower Pressure - With Ice

$G_H = 0.850$

Section Elevation ft	z ft	K _Z	q _z psf	t _z in	A _G ft ²	F a c e	A _F ft ²	A _R ft ²	A _{leg} ft ²	Leg %	C _{AA} In Face ft ²	C _{AA} Out Face ft ²
T1	1616'3"	2.01	3.933	1.400	79.875	A	14.195	16.330	9.750	31.94	10.016	0.000

tnxTower TASHJIAN TOWERS CORP. 2765 S. TEMPERANCE AVE. FOWLER, CA. 93625 Phone: (559) 834-4300 FAX: (559) 834-4377	Job LAFAYETTE	Page 67 of 134
	Project 1620' GUYED TOWER	Date 11:40:25 11/02/18
	Client KLFY	Designed by M.C.

Section Elevation <i>ft</i>	<i>z</i> <i>ft</i>	<i>Kz</i>	<i>qz</i> <i>psf</i>	<i>tz</i> <i>in</i>	<i>AG</i> <i>ft²</i>	<i>F</i> <i>a</i> <i>c</i> <i>e</i>	<i>AF</i> <i>ft²</i>	<i>AR</i> <i>ft²</i>	<i>Aleg</i> <i>ft²</i>	<i>Leg</i> <i>%</i>	<i>CAAI</i> <i>In</i> <i>Face</i> <i>ft²</i>	<i>CAAI</i> <i>Out</i> <i>Face</i> <i>ft²</i>
1620'-1612'6"						B	14.195	16.330		31.94	9.308	0.000
						C	14.195	16.330		31.94	12.675	0.000
T2 1612'6"-1605'	1608'9"	2.01	3.933	1.400	79.875	A	12.035	16.330	9.750	34.37	10.016	0.000
						B	12.035	16.330		34.37	9.308	0.000
						C	12.035	16.330		34.37	12.675	0.000
T3 1605'-1575'	1590'	2.01	3.933	1.400	319.500	A	22.833	64.382	39.000	44.72	40.065	0.000
						B	22.833	64.382		44.72	37.233	0.000
						C	22.833	64.382		44.72	50.700	0.000
T4 1575'-1545'	1560'	2.01	3.933	1.400	319.500	A	22.833	64.382	39.000	44.72	40.065	0.000
						B	22.833	64.382		44.72	37.233	0.000
						C	22.833	64.382		44.72	55.502	0.000
T5 1545'-1515'	1530'	2.01	3.933	1.400	319.500	A	22.833	64.382	39.000	44.72	40.065	0.000
						B	22.833	64.382		44.72	37.233	0.000
						C	22.833	64.382		44.72	71.280	0.000
T6 1515'-1485'	1500'	2.01	3.933	1.400	319.500	A	22.833	64.382	39.000	44.72	40.065	0.000
						B	22.833	64.382		44.72	37.233	0.000
						C	22.833	64.382		44.72	71.280	0.000
T7 1485'-1455'	1470'	2.01	3.933	1.400	319.500	A	22.833	64.382	39.000	44.72	40.065	0.000
						B	22.833	64.382		44.72	37.233	0.000
						C	22.833	64.382		44.72	71.280	0.000
T8 1455'-1447'6"	1451'3"	2.01	3.933	1.400	80.188	A	6.030	16.938	10.375	45.17	10.016	0.000
						B	6.030	16.938		45.17	9.308	0.000
						C	6.030	16.938		45.17	17.820	0.000
T9 1447'6"-1440'	1443'9"	2.01	3.933	1.400	80.188	A	6.021	16.928	10.375	45.21	10.016	0.000
						B	6.021	16.928		45.21	9.308	0.000
						C	6.021	16.928		45.21	17.820	0.000
T10 1440'-1432'6"	1436'3"	2.01	3.933	1.400	80.188	A	10.395	16.928	10.375	37.97	10.016	0.000
						B	10.395	16.928		37.97	9.308	0.000
						C	10.395	16.928		37.97	17.820	0.000
T11 1432'6"-1425'	1428'9"	2.01	3.933	1.400	80.188	A	6.021	16.928	10.375	45.21	10.016	0.000
						B	6.021	16.928		45.21	9.308	0.000
						C	6.021	16.928		45.21	17.820	0.000
T12 1425'-1395'	1410'	2.01	3.933	1.400	320.750	A	22.736	66.773	41.500	46.36	40.065	0.000
						B	22.736	66.773		46.36	37.233	0.000
						C	22.736	66.773		46.36	71.280	0.000
T13 1395'-1365'	1380'	2.01	3.933	1.400	320.750	A	22.736	66.773	41.500	46.36	40.065	0.000
						B	22.736	66.773		46.36	37.233	0.000
						C	22.736	66.773		46.36	71.280	0.000
T14 1365'-1335'	1350'	2.01	3.933	1.400	320.750	A	22.736	66.773	41.500	46.36	40.065	0.000
						B	22.736	66.773		46.36	37.233	0.000
						C	22.736	66.773		46.36	71.280	0.000
T15 1335'-1305'	1320'	2.01	3.933	1.400	320.750	A	22.736	66.773	41.500	46.36	40.065	0.000
						B	22.736	66.773		46.36	37.233	0.000
						C	22.736	66.773		46.36	71.280	0.000
T16 1305'-1275'	1290'	2.01	3.933	1.400	322.000	A	22.647	69.174	44.000	47.92	40.065	0.000
						B	22.647	69.174		47.92	37.233	0.000
						C	22.647	69.174		47.92	71.280	0.000
T17 1275'-1245'	1260'	2.01	3.933	1.400	322.000	A	22.639	69.164	44.000	47.93	40.065	0.000
						B	22.639	69.164		47.93	37.233	0.000
						C	22.639	69.164		47.93	71.280	0.000
T18 1245'-1237'6"	1241'3"	2.01	3.933	1.400	80.500	A	5.997	17.526	11.000	46.76	10.016	0.000
						B	5.997	17.526		46.76	9.308	0.000
						C	5.997	17.526		46.76	17.820	0.000
T19 1237'6"-1230'	1233'9"	2.01	3.933	1.400	80.500	A	5.997	17.526	11.000	46.76	10.016	0.000
						B	5.997	17.526		46.76	9.308	0.000
						C	5.997	17.526		46.76	17.820	0.000
T20 1230'-1222'6"	1226'3"	2.01	3.933	1.400	80.500	A	10.351	17.526	11.000	39.46	10.016	0.000
						B	10.351	17.526		39.46	9.308	0.000
						C	10.351	17.526		39.46	17.820	0.000
T21	1218'9"	2.01	3.933	1.400	80.500	A	5.997	17.526	11.000	46.76	10.016	0.000

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	Project 1620' GUYED TOWER	Date 11:40:25 11/02/18
	Client KLFY	Designed by M.C.

Section Elevation <i>ft</i>	<i>z</i> <i>ft</i>	<i>Kz</i>	<i>qz</i> <i>psf</i>	<i>tz</i> <i>in</i>	<i>AG</i> <i>ft²</i>	<i>F</i> <i>a</i> <i>c</i> <i>e</i>	<i>AF</i> <i>ft²</i>	<i>AR</i> <i>ft²</i>	<i>Aleg</i> <i>ft²</i>	<i>Leg</i> <i>%</i>	<i>CAAI</i> <i>In</i> <i>Face</i> <i>ft²</i>	<i>CAAI</i> <i>Out</i> <i>Face</i> <i>ft²</i>
1222'6"-1215'						B	5.997	17.526		46.76	9.308	0.000
						C	5.997	17.526		46.76	17.820	0.000
T22 1215'-1185'	1200'	2.01	3.933	1.400	322.000	A	22.639	69.164	44.000	47.93	40.065	0.000
						B	22.639	69.164		47.93	37.233	0.000
						C	22.639	69.164		47.93	71.280	0.000
T23 1185'-1155'	1170'	2.01	3.933	1.400	322.000	A	22.639	69.164	44.000	47.93	40.065	0.000
						B	22.639	69.164		47.93	37.233	0.000
						C	22.639	69.164		47.93	71.280	0.000
T24 1155'-1125'	1140'	2.01	3.933	1.400	322.000	A	22.639	69.164	44.000	47.93	40.065	0.000
						B	22.639	69.164		47.93	37.233	0.000
						C	22.639	69.164		47.93	71.280	0.000
T25 1125'-1095'	1110'	2.01	3.933	1.400	322.000	A	22.639	69.164	44.000	47.93	40.065	0.000
						B	22.639	69.164		47.93	37.233	0.000
						C	22.639	69.164		47.93	71.280	0.000
T26 1095'-1065'	1080'	2.01	3.933	1.400	323.250	A	22.550	71.565	46.500	49.41	40.065	0.000
						B	22.550	71.565		49.41	37.233	0.000
						C	22.550	71.565		49.41	71.280	0.000
T27 1065'-1057'6"	1061'3"	2.01	3.933	1.400	80.813	A	5.973	18.124	11.625	48.24	10.016	0.000
						B	5.973	18.124		48.24	9.308	0.000
						C	5.973	18.124		48.24	17.820	0.000
T28 1057'6"-1050'	1053'9"	2.01	3.933	1.400	80.813	A	5.973	18.124	11.625	48.24	10.016	0.000
						B	5.973	18.124		48.24	9.308	0.000
						C	5.973	18.124		48.24	17.820	0.000
T29 1050'-1042'6"	1046'3"	2.01	3.933	1.400	80.813	A	10.308	18.124	11.625	40.89	10.016	0.000
						B	10.308	18.124		40.89	9.308	0.000
						C	10.308	18.124		40.89	17.820	0.000
T30 1042'6"-1035'	1038'9"	2.01	3.933	1.400	80.813	A	5.973	18.124	11.625	48.24	10.016	0.000
						B	5.973	18.124		48.24	9.308	0.000
						C	5.973	18.124		48.24	17.820	0.000
T31 1035'-1005'	1020'	2.01	3.933	1.400	323.250	A	22.541	71.555	46.500	49.42	40.065	0.000
						B	22.541	71.555		49.42	37.233	0.000
						C	22.541	71.555		49.42	71.280	0.000
T32 1005'-975'	990'	2.01	3.933	1.400	323.250	A	22.541	71.555	46.500	49.42	40.065	0.000
						B	22.541	71.555		49.42	37.233	0.000
						C	22.541	71.555		49.42	71.280	0.000
T33 975'-945'	960'	2.01	3.933	1.400	323.250	A	22.541	71.555	46.500	49.42	40.065	0.000
						B	22.541	71.555		49.42	44.403	0.000
						C	22.541	71.555		49.42	74.245	0.000
T34 945'-915'	930'	2.01	3.933	1.396	323.232	A	22.541	71.454	46.464	49.43	39.986	0.000
						B	22.541	71.454		49.43	51.505	0.000
						C	22.541	71.454		49.43	88.983	0.000
T35 915'-885'	900'	2.01	3.933	1.392	323.209	A	22.541	71.326	46.418	49.45	39.888	0.000
						B	22.541	71.326		49.45	51.420	0.000
						C	22.541	71.326		49.45	88.873	0.000
T36 885'-877'6"	881'3"	2.001	3.915	1.389	80.799	A	5.973	18.044	11.597	48.29	9.956	0.000
						B	5.973	18.044		48.29	12.841	0.000
						C	5.973	18.044		48.29	22.201	0.000
T37 877'6"-870'	873'9"	1.998	3.908	1.388	80.797	A	5.973	18.036	11.594	48.29	9.950	0.000
						B	5.973	18.036		48.29	12.836	0.000
						C	5.973	18.036		48.29	22.194	0.000
T38 870'-862'6"	866'3"	1.994	3.901	1.386	80.796	A	10.308	18.027	11.591	40.91	9.943	0.000
						B	10.308	18.027		40.91	12.830	0.000
						C	10.308	18.027		40.91	22.186	0.000
T39 862'6"-855'	858'9"	1.99	3.894	1.385	80.794	A	5.973	18.018	11.588	48.30	9.937	0.000
						B	5.973	18.018		48.30	12.825	0.000
						C	5.973	18.018		48.30	22.179	0.000
T40 855'-825'	840'	1.981	3.876	1.382	323.161	A	22.541	71.059	46.322	49.49	39.681	0.000
						B	22.541	71.059		49.49	51.241	0.000
						C	22.541	71.059		49.49	88.643	0.000
T41 825'-795'	810'	1.966	3.847	1.377	323.136	A	22.541	70.919	46.272	49.51	39.573	0.000

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	Project 1620' GUYED TOWER	Date 11:40:25 11/02/18
	Client KLFY	Designed by M.C.

Section Elevation <i>ft</i>	<i>z</i> <i>ft</i>	<i>Kz</i>	<i>qz</i> <i>psf</i>	<i>tz</i> <i>in</i>	<i>AG</i> <i>ft²</i>	<i>F</i> <i>a</i> <i>c</i> <i>e</i>	<i>AF</i> <i>ft²</i>	<i>AR</i> <i>ft²</i>	<i>Aleg</i> <i>ft²</i>	<i>Leg</i> <i>%</i>	<i>CAAs</i> <i>In</i> <i>Face</i> <i>ft²</i>	<i>CAAs</i> <i>Out</i> <i>Face</i> <i>ft²</i>
T42 795'-765'	780'	1.95	3.816	1.372	323.110	B	22.541	70.919		49.51	51.148	0.000
						C	22.541	70.919		49.51	88.523	0.000
						A	22.541	70.775	46.220	49.53	39.460	0.000
						B	22.541	70.775		49.53	51.051	0.000
T43 765'-735'	750'	1.934	3.785	1.367	323.083	C	22.541	70.775		49.53	88.398	0.000
						A	22.541	70.625	46.166	49.55	39.344	0.000
						B	22.541	70.625		49.55	50.951	0.000
						C	22.541	70.625		49.55	88.269	0.000
T44 735'-705'	720'	1.918	3.752	1.361	323.055	A	22.541	70.469	46.111	49.58	39.224	0.000
						B	22.541	70.469		49.58	50.847	0.000
						C	22.541	70.469		49.58	88.136	0.000
T45 705'-675'	690'	1.901	3.719	1.355	323.026	A	22.541	70.308	46.053	49.60	39.099	0.000
						B	22.541	70.308		49.60	50.739	0.000
						C	22.541	70.308		49.60	87.997	0.000
T46 675'-645'	660'	1.883	3.684	1.349	324.246	A	22.453	72.545	48.493	51.05	38.970	0.000
						B	22.453	72.545		51.05	50.627	0.000
						C	22.453	72.545		51.05	87.853	0.000
T47 645'-637'6"	641'3"	1.872	3.662	1.345	81.057	A	5.949	18.332	12.113	49.89	9.721	0.000
						B	5.949	18.332		49.89	12.639	0.000
						C	5.949	18.332		49.89	21.940	0.000
T48 637'6"-630'	633'9"	1.867	3.653	1.344	81.055	A	10.264	18.321	12.110	42.36	9.713	0.000
						B	10.264	18.321		42.36	12.631	0.000
						C	10.264	18.321		42.36	21.930	0.000
T49 630'-622'6"	626'3"	1.862	3.644	1.342	81.053	A	5.949	18.310	12.106	49.90	9.704	0.000
						B	5.949	18.310		49.90	12.624	0.000
						C	5.949	18.310		49.90	21.921	0.000
T50 622'6"-615'	618'9"	1.858	3.635	1.341	81.051	A	5.949	18.298	12.102	49.91	9.696	0.000
						B	5.949	18.298		49.91	12.616	0.000
						C	5.949	18.298		49.91	21.911	0.000
T51 615'-585'	600'	1.846	3.611	1.336	324.182	A	22.444	72.179	48.365	51.11	38.693	0.000
						B	22.444	72.179		51.11	50.388	0.000
						C	22.444	72.179		51.11	87.546	0.000
T52 585'-555'	570'	1.826	3.572	1.330	324.148	A	22.444	71.989	48.296	51.14	38.545	0.000
						B	22.444	71.989		51.14	50.260	0.000
						C	22.444	71.989		51.14	87.382	0.000
T53 555'-525'	540'	1.805	3.532	1.322	324.112	A	22.444	71.790	48.225	51.18	38.390	0.000
						B	22.444	71.790		51.18	50.126	0.000
						C	22.444	71.790		51.18	87.209	0.000
T54 525'-495'	510'	1.783	3.490	1.315	324.075	A	22.444	71.580	48.149	51.21	38.228	0.000
						B	22.444	71.580		51.21	49.986	0.000
						C	22.444	71.580		51.21	87.029	0.000
T55 495'-465'	480'	1.761	3.445	1.307	324.035	A	22.444	71.359	48.070	51.25	38.056	0.000
						B	22.444	71.359		51.25	49.837	0.000
						C	22.444	71.359		51.25	86.838	0.000
T56 465'-435'	450'	1.737	3.399	1.299	323.993	A	22.444	71.125	47.986	51.28	37.874	0.000
						B	22.444	71.125		51.28	58.948	0.000
						C	22.444	71.125		51.28	86.636	0.000
T57 435'-427'6"	431'3"	1.722	3.369	1.293	81.304	A	5.933	18.569	12.608	51.46	9.439	0.000
						B	5.933	18.569		51.46	15.166	0.000
						C	5.933	18.569		51.46	21.626	0.000
T58 427'6"-420'	423'9"	1.715	3.356	1.291	81.301	A	5.924	18.543	12.602	51.50	9.427	0.000
						B	5.924	18.543		51.50	15.152	0.000
						C	5.924	18.543		51.50	21.612	0.000
T59 420'-412'6"	416'3"	1.709	3.344	1.288	81.298	A	10.221	18.527	12.596	43.82	9.414	0.000
						B	10.221	18.527		43.82	15.138	0.000
						C	10.221	18.527		43.82	21.598	0.000
T60 412'6"-405'	408'9"	1.702	3.331	1.286	81.295	A	5.924	18.511	12.590	51.53	9.402	0.000
						B	5.924	18.511		51.53	15.124	0.000
						C	5.924	18.511		51.53	21.584	0.000
T61 405'-375'	390'	1.686	3.298	1.280	325.151	A	22.347	73.012	50.301	52.75	37.476	0.000

tnxTower TASHJIAN TOWERS CORP. 2765 S. TEMPERANCE AVE. FOWLER, CA. 93625 Phone: (559) 834-4300 FAX: (559) 834-4377	Job LAFAYETTE	Page 70 of 134
	Project 1620' GUYED TOWER	Date 11:40:25 11/02/18
	Client KLFY	Designed by M.C.

Section Elevation	z	Kz	qz	tz	AG	F a c e	AF	AR	Aleg	Leg %	CAAs In Face ft ²	CAAs Out Face ft ²
ft	ft		psf	in	ft ²		ft ²	ft ²	ft ²		ft ²	ft ²
T62 375'-345'	360'	1.657	3.243	1.270	325.100	B	22.347	73.012		52.75	70.683	0.000
						C	22.347	73.012		52.75	86.193	0.000
						A	22.347	72.729	50.199	52.80	37.255	0.000
						B	22.347	72.729		52.80	72.437	0.000
T63 345'-315'	330'	1.627	3.184	1.259	325.045	C	22.347	72.729		52.80	85.948	0.000
						A	22.347	72.424	50.089	52.85	37.018	0.000
						B	22.347	72.424		52.85	72.100	0.000
						C	22.347	72.424		52.85	85.684	0.000
T64 315'-285'	300'	1.595	3.121	1.247	324.985	A	22.347	72.093	49.970	52.91	36.760	0.000
						B	22.347	72.093		52.91	71.733	0.000
						C	22.347	72.093		52.91	85.398	0.000
T65 285'-255'	270'	1.56	3.052	1.234	324.920	A	22.347	71.730	49.839	52.98	36.478	0.000
						B	22.347	71.730		52.98	71.333	0.000
						C	22.347	71.730		52.98	85.084	0.000
T66 255'-225'	240'	1.522	2.978	1.219	324.847	A	22.347	71.329	49.695	53.05	36.165	0.000
						B	22.347	71.329		53.05	70.890	0.000
						C	22.347	71.329		53.05	84.737	0.000
T67 225'-195'	210'	1.48	2.895	1.203	324.766	A	22.347	70.880	49.533	53.13	35.816	0.000
						B	22.347	70.880		53.13	70.394	0.000
						C	22.347	70.880		53.13	84.349	0.000
T68 195'-187'6"	191'3"	1.451	2.839	1.192	81.178	A	10.221	17.842	12.355	44.03	8.894	0.000
						B	10.221	17.842		44.03	17.513	0.000
						C	10.221	17.842		44.03	21.020	0.000
T69 187'6"-180'	183'9"	1.439	2.815	1.187	81.172	A	5.924	17.809	12.343	52.01	8.868	0.000
						B	5.924	17.809		52.01	17.476	0.000
						C	5.924	17.809		52.01	20.991	0.000
T70 180'-172'6"	176'3"	1.426	2.790	1.182	81.165	A	5.924	17.773	12.331	52.03	8.841	0.000
						B	5.924	17.773		52.03	21.251	0.000
						C	5.924	17.773		52.03	20.962	0.000
T71 172'6"-165'	168'9"	1.413	2.765	1.177	81.159	A	5.924	17.737	12.318	52.06	8.813	0.000
						B	5.924	17.737		52.06	21.198	0.000
						C	5.924	17.737		52.06	20.931	0.000
T72 165'-135'	150'	1.378	2.697	1.163	324.567	A	22.347	69.776	49.135	53.34	34.956	0.000
						B	22.347	69.776		53.34	84.223	0.000
						C	22.347	69.776		53.34	83.393	0.000
T73 135'-105'	120'	1.315	2.573	1.138	324.439	A	22.347	69.064	48.878	53.47	34.402	0.000
						B	22.347	69.064		53.47	83.165	0.000
						C	22.347	69.064		53.47	82.777	0.000
T74 105'-75'	90'	1.238	2.422	1.106	324.278	A	22.347	68.169	48.555	53.64	33.705	0.000
						B	22.347	68.169		53.64	81.834	0.000
						C	22.347	68.169		53.64	82.003	0.000
T75 75'-45'	60'	1.137	2.224	1.062	324.058	A	22.347	66.950	48.116	53.88	32.756	0.000
						B	22.347	66.950		53.88	80.023	0.000
						C	22.347	66.950		53.88	80.949	0.000
T76 45'-37'6"	41'3"	1.05	2.055	1.023	80.966	A	5.924	16.638	11.931	52.88	7.978	0.000
						B	5.924	16.638		52.88	19.603	0.000
						C	5.924	16.638		52.88	20.003	0.000
T77 37'6"-30'	33'9"	1.007	1.970	1.002	80.940	A	8.659	16.494	11.881	47.23	7.868	0.000
						B	8.659	16.494		47.23	19.394	0.000
						C	8.659	16.494		47.23	19.881	0.000
T78 30'-22'6"	26'3"	0.955	1.869	0.977	80.909	A	11.784	16.317	11.818	42.06	7.734	0.000
						B	11.784	16.317		42.06	19.138	0.000
						C	11.784	16.317		42.06	19.732	0.000
T79 22'6"-15'	18'9"	0.89	1.741	0.945	80.869	A	7.487	17.269	11.738	47.41	7.559	0.000
						B	7.487	17.269		47.41	19.029	0.000
						C	7.487	17.269		47.41	19.538	0.000
T80 15'-0'	7'6"	0.85	1.663	0.862	87.154	A	23.722	31.906	24.711	44.42	4.742	0.000
						B	23.722	31.906		44.42	13.005	0.000
						C	23.722	31.906		44.42	12.694	0.000

tnxTower TASHJIAN TOWERS CORP. 2765 S. TEMPERANCE AVE. FOWLER, CA. 93625 Phone: (559) 834-4300 FAX: (559) 834-4377	Job	LAFAYETTE	Page	71 of 134
	Project	1620' GUYED TOWER	Date	11:40:25 11/02/18
	Client	KLFY	Designed by	M.C.

Tower Pressure - Service

$G_H = 0.850$

Section Elevation	z	K_z	q_z	A_G	F a c e	A_F	A_R	A_{leg}	Leg %	C_{AA} In Face	C_{AA} Out Face
ft	ft		psf	ft ²		ft ²	ft ²	ft ²		ft ²	ft ²
T1 1620'-1612'6"	1616'3"	2.01	15.73 1	78.125	A	14.195	6.250	6.250	30.57	2.456	0.000
					B	14.195	6.250		30.57	4.875	0.000
					C	14.195	6.250		30.57	4.665	0.000
T2 1612'6"-1605'	1608'9"	2.01	15.73 1	78.125	A	12.035	6.250	6.250	34.18	2.456	0.000
					B	12.035	6.250		34.18	4.875	0.000
					C	12.035	6.250		34.18	4.665	0.000
T3 1605'-1575'	1590'	2.01	15.73 1	312.500	A	22.833	25.000	25.000	52.26	9.825	0.000
					B	22.833	25.000		52.26	19.500	0.000
					C	22.833	25.000		52.26	18.661	0.000
T4 1575'-1545'	1560'	2.01	15.73 1	312.500	A	22.833	25.000	25.000	52.26	9.825	0.000
					B	22.833	25.000		52.26	19.500	0.000
					C	22.833	25.000		52.26	20.481	0.000
T5 1545'-1515'	1530'	2.01	15.73 1	312.500	A	22.833	25.000	25.000	52.26	9.825	0.000
					B	22.833	25.000		52.26	19.500	0.000
					C	22.833	25.000		52.26	26.462	0.000
T6 1515'-1485'	1500'	2.01	15.73 1	312.500	A	22.833	25.000	25.000	52.26	9.825	0.000
					B	22.833	25.000		52.26	19.500	0.000
					C	22.833	25.000		52.26	26.462	0.000
T7 1485'-1455'	1470'	2.01	15.73 1	312.500	A	22.833	25.000	25.000	52.26	9.825	0.000
					B	22.833	25.000		52.26	19.500	0.000
					C	22.833	25.000		52.26	26.462	0.000
T8 1455'-1447'6"	1451'3"	2.01	15.73 1	78.438	A	6.030	6.875	6.875	53.27	2.456	0.000
					B	6.030	6.875		53.27	4.875	0.000
					C	6.030	6.875		53.27	6.616	0.000
T9 1447'6"-1440'	1443'9"	2.01	15.73 1	78.438	A	6.021	6.875	6.875	53.31	2.456	0.000
					B	6.021	6.875		53.31	4.875	0.000
					C	6.021	6.875		53.31	6.616	0.000
T10 1440'-1432'6"	1436'3"	2.01	15.73 1	78.438	A	10.395	6.875	6.875	39.81	2.456	0.000
					B	10.395	6.875		39.81	4.875	0.000
					C	10.395	6.875		39.81	6.616	0.000
T11 1432'6"-1425'	1428'9"	2.01	15.73 1	78.438	A	6.021	6.875	6.875	53.31	2.456	0.000
					B	6.021	6.875		53.31	4.875	0.000
					C	6.021	6.875		53.31	6.616	0.000
T12 1425'-1395'	1410'	2.01	15.73 1	313.750	A	22.736	27.500	27.500	54.74	9.825	0.000
					B	22.736	27.500		54.74	19.500	0.000
					C	22.736	27.500		54.74	26.462	0.000
T13 1395'-1365'	1380'	2.01	15.73 1	313.750	A	22.736	27.500	27.500	54.74	9.825	0.000
					B	22.736	27.500		54.74	19.500	0.000
					C	22.736	27.500		54.74	26.462	0.000
T14 1365'-1335'	1350'	2.01	15.73 1	313.750	A	22.736	27.500	27.500	54.74	9.825	0.000
					B	22.736	27.500		54.74	19.500	0.000
					C	22.736	27.500		54.74	26.462	0.000
T15 1335'-1305'	1320'	2.01	15.73 1	313.750	A	22.736	27.500	27.500	54.74	9.825	0.000
					B	22.736	27.500		54.74	19.500	0.000
					C	22.736	27.500		54.74	26.462	0.000
T16 1305'-1275'	1290'	2.01	15.73 1	315.000	A	22.647	30.000	30.000	56.98	9.825	0.000
					B	22.647	30.000		56.98	19.500	0.000
					C	22.647	30.000		56.98	26.462	0.000
T17 1275'-1245'	1260'	2.01	15.73 1	315.000	A	22.639	30.000	30.000	56.99	9.825	0.000
					B	22.639	30.000		56.99	19.500	0.000

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	Project 1620' GUYED TOWER	Date 11:40:25 11/02/18
	Client KLFY	Designed by M.C.

Section Elevation ft	z ft	K _Z	q _z psf	A _G ft ²	F a c e	A _F ft ²	A _R ft ²	A _{leg} ft ²	Leg %	C _{AA} In Face ft ²	C _{AA} Out Face ft ²
T18 1245'-1237'6"	1241'3"	2.01	15.73 1	78.750	C	22.639	30.000	7.500	56.99	26.462	0.000
					A	5.997	7.500		55.57	2.456	0.000
					B	5.997	7.500		55.57	4.875	0.000
T19 1237'6"-1230'	1233'9"	2.01	15.73 1	78.750	C	5.997	7.500	7.500	55.57	6.616	0.000
					A	5.997	7.500		55.57	2.456	0.000
					B	5.997	7.500		55.57	4.875	0.000
T20 1230'-1222'6"	1226'3"	2.01	15.73 1	78.750	C	5.997	7.500	7.500	55.57	6.616	0.000
					A	10.351	7.500		42.01	2.456	0.000
					B	10.351	7.500		42.01	4.875	0.000
T21 1222'6"-1215'	1218'9"	2.01	15.73 1	78.750	C	10.351	7.500	7.500	42.01	6.616	0.000
					A	5.997	7.500		55.57	2.456	0.000
					B	5.997	7.500		55.57	4.875	0.000
T22 1215'-1185'	1200'	2.01	15.73 1	315.000	C	5.997	7.500	30.000	55.57	6.616	0.000
					A	22.639	30.000		56.99	9.825	0.000
					B	22.639	30.000		56.99	19.500	0.000
T23 1185'-1155'	1170'	2.01	15.73 1	315.000	C	22.639	30.000	30.000	56.99	26.462	0.000
					A	22.639	30.000		56.99	9.825	0.000
					B	22.639	30.000		56.99	19.500	0.000
T24 1155'-1125'	1140'	2.01	15.73 1	315.000	C	22.639	30.000	30.000	56.99	26.462	0.000
					A	22.639	30.000		56.99	9.825	0.000
					B	22.639	30.000		56.99	19.500	0.000
T25 1125'-1095'	1110'	2.01	15.73 1	315.000	C	22.639	30.000	30.000	56.99	26.462	0.000
					A	22.639	30.000		56.99	9.825	0.000
					B	22.639	30.000		56.99	19.500	0.000
T26 1095'-1065'	1080'	2.01	15.73 1	316.250	C	22.639	30.000	32.500	56.99	26.462	0.000
					A	22.550	32.500		59.04	9.825	0.000
					B	22.550	32.500		59.04	19.500	0.000
T27 1065'-1057'6"	1061'3"	2.01	15.73 1	79.063	C	22.550	32.500	8.125	59.04	26.462	0.000
					A	5.973	8.125		57.63	2.456	0.000
					B	5.973	8.125		57.63	4.875	0.000
T28 1057'6"-1050'	1053'9"	2.01	15.73 1	79.063	C	5.973	8.125	8.125	57.63	6.616	0.000
					A	5.973	8.125		57.63	2.456	0.000
					B	5.973	8.125		57.63	4.875	0.000
T29 1050'-1042'6"	1046'3"	2.01	15.73 1	79.063	C	5.973	8.125	8.125	57.63	6.616	0.000
					A	10.308	8.125		44.08	2.456	0.000
					B	10.308	8.125		44.08	4.875	0.000
T30 1042'6"-1035'	1038'9"	2.01	15.73 1	79.063	C	10.308	8.125	8.125	44.08	6.616	0.000
					A	5.973	8.125		57.63	2.456	0.000
					B	5.973	8.125		57.63	4.875	0.000
T31 1035'-1005'	1020'	2.01	15.73 1	316.250	C	5.973	8.125	32.500	57.63	6.616	0.000
					A	22.541	32.500		59.05	9.825	0.000
					B	22.541	32.500		59.05	19.500	0.000
T32 1005'-975'	990'	2.01	15.73 1	316.250	C	22.541	32.500	32.500	59.05	26.462	0.000
					A	22.541	32.500		59.05	9.825	0.000
					B	22.541	32.500		59.05	19.500	0.000
T33 975'-945'	960'	2.01	15.73 1	316.250	C	22.541	32.500	32.500	59.05	26.462	0.000
					A	22.541	32.500		59.05	9.825	0.000
					B	22.541	32.500		59.05	22.470	0.000
T34 945'-915'	930'	2.01	15.73 1	316.250	C	22.541	32.500	32.500	59.05	27.763	0.000
					A	22.541	32.500		59.05	9.825	0.000
					B	22.541	32.500		59.05	25.440	0.000
T35 915'-885'	900'	2.01	15.73 1	316.250	C	22.541	32.500	32.500	59.05	34.264	0.000
					A	22.541	32.500		59.05	9.825	0.000
					B	22.541	32.500		59.05	25.440	0.000
T36 885'-877'6"	881'3"	2.001	15.66 2	79.063	C	22.541	32.500	8.125	59.05	34.264	0.000
					A	5.973	8.125		57.63	2.456	0.000
					B	5.973	8.125		57.63	6.360	0.000
T37 877'6"-870'	873'9"	1.998	15.63 4	79.063	C	5.973	8.125	8.125	57.63	8.579	0.000
					A	5.973	8.125		57.63	2.456	0.000
					B	5.973	8.125		57.63	6.360	0.000

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	Project 1620' GUYED TOWER	Date 11:40:25 11/02/18
	Client KLFY	Designed by M.C.

Section Elevation	z	K _Z	q _z	A _G	F a c e	A _F	A _R	A _{leg}	Leg %	C _{AA} In Face ft ²	C _{AA} Out Face ft ²
ft	ft		psf	ft ²		ft ²	ft ²	ft ²			
T38 870'-862'6"	866'3"	1.994	15.60 5	79.063	C	5.973	8.125	8.125	57.63	8.584	0.000
					A	10.308	8.125		44.08	2.456	0.000
					B	10.308	8.125		44.08	6.360	0.000
T39 862'6"-855'	858'9"	1.99	15.57 7	79.063	A	5.973	8.125	8.125	57.63	2.456	0.000
					B	5.973	8.125		57.63	6.360	0.000
					C	5.973	8.125		57.63	8.595	0.000
T40 855'-825'	840'	1.981	15.50 4	316.250	A	22.541	32.500	32.500	59.05	9.825	0.000
					B	22.541	32.500		59.05	25.440	0.000
					C	22.541	32.500		59.05	34.434	0.000
T41 825'-795'	810'	1.966	15.38 6	316.250	A	22.541	32.500	32.500	59.05	9.825	0.000
					B	22.541	32.500		59.05	25.440	0.000
					C	22.541	32.500		59.05	34.525	0.000
T42 795'-765'	780'	1.95	15.26 4	316.250	A	22.541	32.500	32.500	59.05	9.825	0.000
					B	22.541	32.500		59.05	25.440	0.000
					C	22.541	32.500		59.05	34.619	0.000
T43 765'-735'	750'	1.934	15.13 9	316.250	A	22.541	32.500	32.500	59.05	9.825	0.000
					B	22.541	32.500		59.05	25.440	0.000
					C	22.541	32.500		59.05	34.717	0.000
T44 735'-705'	720'	1.918	15.00 9	316.250	A	22.541	32.500	32.500	59.05	9.825	0.000
					B	22.541	32.500		59.05	25.440	0.000
					C	22.541	32.500		59.05	34.820	0.000
T45 705'-675'	690'	1.901	14.87 5	316.250	A	22.541	32.500	32.500	59.05	9.825	0.000
					B	22.541	32.500		59.05	25.440	0.000
					C	22.541	32.500		59.05	34.927	0.000
T46 675'-645'	660'	1.883	14.73 7	317.500	A	22.453	35.000	35.000	60.92	9.825	0.000
					B	22.453	35.000		60.92	25.440	0.000
					C	22.453	35.000		60.92	35.040	0.000
T47 645'-637'6"	641'3"	1.872	14.64 8	79.375	A	5.949	8.750	8.750	59.53	2.456	0.000
					B	5.949	8.750		59.53	6.360	0.000
					C	5.949	8.750		59.53	8.778	0.000
T48 637'6"-630'	633'9"	1.867	14.61 2	79.375	A	10.264	8.750	8.750	46.02	2.456	0.000
					B	10.264	8.750		46.02	6.360	0.000
					C	10.264	8.750		46.02	8.786	0.000
T49 630'-622'6"	626'3"	1.862	14.57 5	79.375	A	5.949	8.750	8.750	59.53	2.456	0.000
					B	5.949	8.750		59.53	6.360	0.000
					C	5.949	8.750		59.53	8.794	0.000
T50 622'6"-615'	618'9"	1.858	14.53 8	79.375	A	5.949	8.750	8.750	59.53	2.456	0.000
					B	5.949	8.750		59.53	6.360	0.000
					C	5.949	8.750		59.53	8.801	0.000
T51 615'-585'	600'	1.846	14.44 4	317.500	A	22.444	35.000	35.000	60.93	9.825	0.000
					B	22.444	35.000		60.93	25.440	0.000
					C	22.444	35.000		60.93	35.284	0.000
T52 585'-555'	570'	1.826	14.28 9	317.500	A	22.444	35.000	35.000	60.93	9.825	0.000
					B	22.444	35.000		60.93	25.440	0.000
					C	22.444	35.000		60.93	35.416	0.000
T53 555'-525'	540'	1.805	14.12 7	317.500	A	22.444	35.000	35.000	60.93	9.825	0.000
					B	22.444	35.000		60.93	25.440	0.000
					C	22.444	35.000		60.93	35.557	0.000
T54 525'-495'	510'	1.783	13.95 8	317.500	A	22.444	35.000	35.000	60.93	9.825	0.000
					B	22.444	35.000		60.93	25.440	0.000
					C	22.444	35.000		60.93	35.706	0.000
T55 495'-465'	480'	1.761	13.78 1	317.500	A	22.444	35.000	35.000	60.93	9.825	0.000
					B	22.444	35.000		60.93	25.440	0.000
					C	22.444	35.000		60.93	35.865	0.000
T56 465'-435'	450'	1.737	13.59 5	317.500	A	22.444	35.000	35.000	60.93	9.825	0.000
					B	22.444	35.000		60.93	28.215	0.000
					C	22.444	35.000		60.93	36.035	0.000
T57 435'-427'6"	431'3"	1.722	13.47 4	79.688	A	5.933	9.375	9.375	61.24	2.456	0.000
					B	5.933	9.375		61.24	7.193	0.000

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	Project 1620' GUYED TOWER	Date 11:40:25 11/02/18
	Client KLFY	Designed by M.C.

Section Elevation	z	K _Z	q _z	A _G	F a c e	A _F	A _R	A _{leg}	Leg %	C _{AA} In Face ft ²	C _{AA} Out Face ft ²
ft	ft		psf	ft ²		ft ²	ft ²	ft ²			
T58 427'6"-420'	423'9"	1.715	13.42 4	79.688	C	5.933	9.375	9.375	61.24	9.037	0.000
					A	5.924	9.375		61.28	2.456	0.000
					B	5.924	9.375		61.28	7.193	0.000
T59 420'-412'6"	416'3"	1.709	13.37 4	79.688	C	5.924	9.375	9.375	61.28	9.049	0.000
					A	10.221	9.375		47.84	2.456	0.000
					B	10.221	9.375		47.84	7.193	0.000
T60 412'6"-405'	408'9"	1.702	13.32 3	79.688	C	10.221	9.375	9.375	47.84	9.061	0.000
					A	5.924	9.375		61.28	2.456	0.000
					B	5.924	9.375		61.28	7.193	0.000
T61 405'-375'	390'	1.686	13.19 2	318.750	C	5.924	9.375	37.500	61.28	9.073	0.000
					A	22.347	37.500		62.66	9.825	0.000
					B	22.347	37.500		62.66	32.706	0.000
T62 375'-345'	360'	1.657	12.97 1	318.750	C	22.347	37.500	37.500	62.66	36.417	0.000
					A	22.347	37.500		62.66	9.825	0.000
					B	22.347	37.500		62.66	33.493	0.000
T63 345'-315'	330'	1.627	12.73 6	318.750	C	22.347	37.500	37.500	62.66	36.633	0.000
					A	22.347	37.500		62.66	9.825	0.000
					B	22.347	37.500		62.66	33.493	0.000
T64 315'-285'	300'	1.595	12.48 3	318.750	C	22.347	37.500	37.500	62.66	36.871	0.000
					A	22.347	37.500		62.66	9.825	0.000
					B	22.347	37.500		62.66	33.493	0.000
T65 285'-255'	270'	1.56	12.20 9	318.750	C	22.347	37.500	37.500	62.66	37.133	0.000
					A	22.347	37.500		62.66	9.825	0.000
					B	22.347	37.500		62.66	33.493	0.000
T66 255'-225'	240'	1.522	11.91 0	318.750	C	22.347	37.500	37.500	62.66	37.426	0.000
					A	22.347	37.500		62.66	9.825	0.000
					B	22.347	37.500		62.66	33.493	0.000
T67 225'-195'	210'	1.48	11.58 0	318.750	C	22.347	37.500	37.500	62.66	37.757	0.000
					A	22.347	37.500		62.66	9.825	0.000
					B	22.347	37.500		62.66	33.493	0.000
T68 195'-187'6"	191'3"	1.451	11.35 4	79.688	C	22.347	37.500	9.375	62.66	38.138	0.000
					A	10.221	9.375		47.84	2.456	0.000
					B	10.221	9.375		47.84	8.373	0.000
T69 187'6"-180'	183'9"	1.439	11.25 9	79.688	C	10.221	9.375	9.375	47.84	9.602	0.000
					A	5.924	9.375		61.28	2.456	0.000
					B	5.924	9.375		61.28	8.373	0.000
T70 180'-172'6"	176'3"	1.426	11.16 1	79.688	C	5.924	9.375	9.375	61.28	9.631	0.000
					A	5.924	9.375		61.28	2.456	0.000
					B	5.924	9.375		61.28	8.748	0.000
T71 172'6"-165'	168'9"	1.413	11.05 9	79.688	C	5.924	9.375	9.375	61.28	9.661	0.000
					A	5.924	9.375		61.28	2.456	0.000
					B	5.924	9.375		61.28	8.748	0.000
T72 165'-135'	150'	1.378	10.78 8	318.750	C	5.924	9.375	37.500	61.28	9.693	0.000
					A	22.347	37.500		62.66	9.825	0.000
					B	22.347	37.500		62.66	34.993	0.000
T73 135'-105'	120'	1.315	10.29 3	318.750	C	22.347	37.500	37.500	62.66	39.091	0.000
					A	22.347	37.500		62.66	9.825	0.000
					B	22.347	37.500		62.66	34.993	0.000
T74 105'-75'	90'	1.238	9.688	318.750	C	22.347	37.500	37.500	62.66	39.539	0.000
					A	22.347	37.500		62.66	9.825	0.000
					B	22.347	37.500		62.66	34.993	0.000
T75 75'-45'	60'	1.137	8.895	318.750	C	22.347	37.500	37.500	62.66	40.132	0.000
					A	22.347	37.500		62.66	9.825	0.000
					B	22.347	37.500		62.66	34.993	0.000
T76 45'-37'6"	41'3"	1.05	8.221	79.688	C	22.347	37.500	9.375	62.66	40.999	0.000
					A	5.924	9.375		61.28	2.456	0.000
					B	5.924	9.375		61.28	8.748	0.000
T77 37'6"-30'	33'9"	1.007	7.881	79.688	C	5.924	9.375	9.375	61.28	10.458	0.000
					A	8.659	9.375		51.99	2.456	0.000
					B	8.659	9.375		51.99	8.748	0.000

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	Project 1620' GUYED TOWER	Date 11:40:25 11/02/18
	Client KLFY	Designed by M.C.

Section Elevation ft	z ft	K _Z	q _z psf	A _G ft ²	F a c e	A _F ft ²	A _R ft ²	A _{leg} ft ²	Leg %	C _{AA} In Face ft ²	C _{AA} Out Face ft ²
T78 30'-22'6"	26'3"	0.955	7.475	79.688	C	8.659	9.375	9.375	51.99	10.614	0.000
					A	11.784	9.375		44.31	2.456	0.000
					B	11.784	9.375		44.31	8.748	0.000
T79 22'6"-15'	18'9"	0.89	6.963	79.688	C	11.784	9.375	9.375	44.31	10.836	0.000
					A	7.487	9.375		55.60	2.456	0.000
					B	7.487	9.375		55.60	8.783	0.000
T80 15'-0'	7'6"	0.85	6.653	84.882	C	7.487	9.375	20.091	55.60	11.142	0.000
					A	23.722	20.091		45.86	1.638	0.000
					B	23.722	20.091		45.86	6.007	0.000
					C	23.722	20.091		45.86	7.563	0.000

Load Combinations

Comb. No.	Description
1	Dead Only
2	1.2D+1.0W (pattern 1) 0 deg - No Ice+1.0 Guy
3	1.2D+1.0W (pattern 2) 0 deg - No Ice+1.0 Guy
4	1.2D+1.0W (pattern 3) 0 deg - No Ice+1.0 Guy
5	1.2D+1.0W (pattern 4) 0 deg - No Ice+1.0 Guy
6	1.2D+1.0W (pattern 1) 30 deg - No Ice+1.0 Guy
7	1.2D+1.0W (pattern 2) 30 deg - No Ice+1.0 Guy
8	1.2D+1.0W (pattern 3) 30 deg - No Ice+1.0 Guy
9	1.2D+1.0W (pattern 4) 30 deg - No Ice+1.0 Guy
10	1.2D+1.0W (pattern 1) 60 deg - No Ice+1.0 Guy
11	1.2D+1.0W (pattern 2) 60 deg - No Ice+1.0 Guy
12	1.2D+1.0W (pattern 3) 60 deg - No Ice+1.0 Guy
13	1.2D+1.0W (pattern 4) 60 deg - No Ice+1.0 Guy
14	1.2D+1.0W (pattern 1) 90 deg - No Ice+1.0 Guy
15	1.2D+1.0W (pattern 2) 90 deg - No Ice+1.0 Guy
16	1.2D+1.0W (pattern 3) 90 deg - No Ice+1.0 Guy
17	1.2D+1.0W (pattern 4) 90 deg - No Ice+1.0 Guy
18	1.2D+1.0W (pattern 1) 120 deg - No Ice+1.0 Guy
19	1.2D+1.0W (pattern 2) 120 deg - No Ice+1.0 Guy
20	1.2D+1.0W (pattern 3) 120 deg - No Ice+1.0 Guy
21	1.2D+1.0W (pattern 4) 120 deg - No Ice+1.0 Guy
22	1.2D+1.0W (pattern 1) 150 deg - No Ice+1.0 Guy
23	1.2D+1.0W (pattern 2) 150 deg - No Ice+1.0 Guy
24	1.2D+1.0W (pattern 3) 150 deg - No Ice+1.0 Guy
25	1.2D+1.0W (pattern 4) 150 deg - No Ice+1.0 Guy
26	1.2D+1.0W (pattern 1) 180 deg - No Ice+1.0 Guy
27	1.2D+1.0W (pattern 2) 180 deg - No Ice+1.0 Guy
28	1.2D+1.0W (pattern 3) 180 deg - No Ice+1.0 Guy
29	1.2D+1.0W (pattern 4) 180 deg - No Ice+1.0 Guy
30	1.2D+1.0W (pattern 1) 210 deg - No Ice+1.0 Guy
31	1.2D+1.0W (pattern 2) 210 deg - No Ice+1.0 Guy
32	1.2D+1.0W (pattern 3) 210 deg - No Ice+1.0 Guy
33	1.2D+1.0W (pattern 4) 210 deg - No Ice+1.0 Guy
34	1.2D+1.0W (pattern 1) 240 deg - No Ice+1.0 Guy
35	1.2D+1.0W (pattern 2) 240 deg - No Ice+1.0 Guy
36	1.2D+1.0W (pattern 3) 240 deg - No Ice+1.0 Guy
37	1.2D+1.0W (pattern 4) 240 deg - No Ice+1.0 Guy
38	1.2D+1.0W (pattern 1) 270 deg - No Ice+1.0 Guy
39	1.2D+1.0W (pattern 2) 270 deg - No Ice+1.0 Guy
40	1.2D+1.0W (pattern 3) 270 deg - No Ice+1.0 Guy
41	1.2D+1.0W (pattern 4) 270 deg - No Ice+1.0 Guy
42	1.2D+1.0W (pattern 1) 300 deg - No Ice+1.0 Guy

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	Project	1620' GUYED TOWER	Date	11:40:25 11/02/18
	Client	KLFY	Designed by	M.C.

<i>Comb. No.</i>	<i>Description</i>
43	1.2D+1.0W (pattern 2) 300 deg - No Ice+1.0 Guy
44	1.2D+1.0W (pattern 3) 300 deg - No Ice+1.0 Guy
45	1.2D+1.0W (pattern 4) 300 deg - No Ice+1.0 Guy
46	1.2D+1.0W (pattern 1) 330 deg - No Ice+1.0 Guy
47	1.2D+1.0W (pattern 2) 330 deg - No Ice+1.0 Guy
48	1.2D+1.0W (pattern 3) 330 deg - No Ice+1.0 Guy
49	1.2D+1.0W (pattern 4) 330 deg - No Ice+1.0 Guy
50	1.2 Dead+1.0 Ice+1.0 Temp+Guy
51	1.2 Dead+1.0 Wind 0 deg+1.0 Ice+1.0 Temp+1.0 Guy
52	1.2 Dead+1.0 Wind 30 deg+1.0 Ice+1.0 Temp+1.0 Guy
53	1.2 Dead+1.0 Wind 60 deg+1.0 Ice+1.0 Temp+1.0 Guy
54	1.2 Dead+1.0 Wind 90 deg+1.0 Ice+1.0 Temp+1.0 Guy
55	1.2 Dead+1.0 Wind 120 deg+1.0 Ice+1.0 Temp+1.0 Guy
56	1.2 Dead+1.0 Wind 150 deg+1.0 Ice+1.0 Temp+1.0 Guy
57	1.2 Dead+1.0 Wind 180 deg+1.0 Ice+1.0 Temp+1.0 Guy
58	1.2 Dead+1.0 Wind 210 deg+1.0 Ice+1.0 Temp+1.0 Guy
59	1.2 Dead+1.0 Wind 240 deg+1.0 Ice+1.0 Temp+1.0 Guy
60	1.2 Dead+1.0 Wind 270 deg+1.0 Ice+1.0 Temp+1.0 Guy
61	1.2 Dead+1.0 Wind 300 deg+1.0 Ice+1.0 Temp+1.0 Guy
62	1.2 Dead+1.0 Wind 330 deg+1.0 Ice+1.0 Temp+1.0 Guy
63	Dead+Wind 0 deg - Service+Guy
64	Dead+Wind 30 deg - Service+Guy
65	Dead+Wind 60 deg - Service+Guy
66	Dead+Wind 90 deg - Service+Guy
67	Dead+Wind 120 deg - Service+Guy
68	Dead+Wind 150 deg - Service+Guy
69	Dead+Wind 180 deg - Service+Guy
70	Dead+Wind 210 deg - Service+Guy
71	Dead+Wind 240 deg - Service+Guy
72	Dead+Wind 270 deg - Service+Guy
73	Dead+Wind 300 deg - Service+Guy
74	Dead+Wind 330 deg - Service+Guy

Maximum Tower Deflections - Service Wind

<i>Section No.</i>	<i>Elevation ft</i>	<i>Horz. Deflection in</i>	<i>Gov. Load Comb.</i>	<i>Tilt °</i>	<i>Twist °</i>
T1	1620 - 1612.5	6.976	65	0.1827	0.4142
T2	1612.5 - 1605	7.106	65	0.1854	0.4142
T3	1605 - 1575	7.245	65	0.1863	0.4153
T4	1575 - 1545	7.810	65	0.1845	0.4218
T5	1545 - 1515	8.340	65	0.1762	0.4259
T6	1515 - 1485	8.804	65	0.1649	0.4208
T7	1485 - 1455	9.204	65	0.1545	0.4145
T8	1455 - 1447.5	9.570	65	0.1482	0.4088
T9	1447.5 - 1440	9.662	65	0.1477	0.4078
T10	1440 - 1432.5	9.756	65	0.1477	0.4067
T11	1432.5 - 1425	9.861	65	0.1459	0.4068
T12	1425 - 1395	9.964	65	0.1441	0.4069
T13	1395 - 1365	10.346	65	0.1318	0.4069
T14	1365 - 1335	10.651	65	0.1136	0.4060
T15	1335 - 1305	10.846	65	0.0924	0.4037
T16	1305 - 1275	10.920	65	0.0714	0.4002
T17	1275 - 1245	10.901	65	0.0564	0.3966
T18	1245 - 1237.5	10.818	65	0.0467	0.3922
T19	1237.5 - 1230	10.796	65	0.0453	0.3914
T20	1230 - 1222.5	10.773	65	0.0446	0.3905
T21	1222.5 - 1215	10.763	65	0.0428	0.3906

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	Project	1620' GUYED TOWER	Date	11:40:25 11/02/18
	Client	KLFY	Designed by	M.C.

Section No.	Elevation ft	Horz. Deflection in	Gov. Load Comb.	Tilt °	Twist °
T22	1215 - 1185	10.750	65	0.0411	0.3906
T23	1185 - 1155	10.671	65	0.0339	0.3905
T24	1155 - 1125	10.530	65	0.0320	0.3894
T25	1125 - 1095	10.314	65	0.0373	0.3879
T26	1095 - 1065	10.032	65	0.0452	0.3859
T27	1065 - 1057.5	9.707	65	0.0483	0.3832
T28	1057.5 - 1050	9.624	65	0.0483	0.3824
T29	1050 - 1042.5	9.541	65	0.0479	0.3817
T30	1042.5 - 1035	9.469	65	0.0480	0.3817
T31	1035 - 1005	9.397	65	0.0482	0.3817
T32	1005 - 975	9.098	65	0.0507	0.3814
T33	975 - 945	8.766	65	0.0548	0.3856
T34	945 - 915	8.388	65	0.0586	0.3938
T35	915 - 885	7.967	65	0.0594	0.3979
T36	885 - 877.5	7.573	65	0.0547	0.3988
T37	877.5 - 870	7.480	65	0.0524	0.3987
T38	870 - 862.5	7.392	65	0.0496	0.3987
T39	862.5 - 855	7.320	65	0.0480	0.4000
T40	855 - 825	7.253	65	0.0464	0.4013
T41	825 - 795	7.001	65	0.0429	0.4066
T42	795 - 765	6.822	67	0.0432	0.4109
T43	765 - 735	6.692	67	0.0453	0.4162
T44	735 - 705	6.518	67	0.0471	0.4191
T45	705 - 675	6.311	67	0.0464	0.4195
T46	675 - 645	6.127	67	0.0414	0.4183
T47	645 - 637.5	5.983	67	0.0317	0.4160
T48	637.5 - 630	5.959	67	0.0282	0.4153
T49	630 - 622.5	5.952	67	0.0255	0.4161
T50	622.5 - 615	5.955	67	0.0228	0.4170
T51	615 - 585	5.963	67	0.0203	0.4179
T52	585 - 555	6.015	67	0.0133	0.4209
T53	555 - 525	6.088	67	0.0098	0.4234
T54	525 - 495	6.152	67	0.0086	0.4245
T55	495 - 465	6.190	67	0.0079	0.4232
T56	465 - 435	6.210	67	0.0081	0.4205
T57	435 - 427.5	6.234	67	0.0111	0.4141
T58	427.5 - 420	6.243	67	0.0124	0.4121
T59	420 - 412.5	6.255	67	0.0140	0.4103
T60	412.5 - 405	6.286	67	0.0148	0.4099
T61	405 - 375	6.322	67	0.0156	0.4097
T62	375 - 345	6.457	67	0.0138	0.4016
T63	345 - 315	6.542	67	0.0055	0.3911
T64	315 - 285	6.562	67	0.0103	0.3690
T65	285 - 255	6.460	67	0.0274	0.3434
T66	255 - 225	6.220	63	0.0459	0.3157
T67	225 - 195	5.844	63	0.0639	0.2858
T68	195 - 187.5	5.342	63	0.0793	0.2557
T69	187.5 - 180	5.222	63	0.0827	0.2524
T70	180 - 172.5	5.092	63	0.0862	0.2495
T71	172.5 - 165	4.955	63	0.0899	0.2456
T72	165 - 135	4.812	63	0.0938	0.2412
T73	135 - 105	4.169	63	0.1101	0.2084
T74	105 - 75	3.397	63	0.1268	0.1718
T75	75 - 45	2.504	63	0.1418	0.1340
T76	45 - 37.5	1.534	63	0.1534	0.1126
T77	37.5 - 30	1.281	63	0.1556	0.1076
T78	30 - 22.5	1.025	63	0.1575	0.1029
T79	22.5 - 15	0.767	63	0.1591	0.0988
T80	15 - 0	0.508	63	0.1599	0.0921

tnxTower TASHJIAN TOWERS CORP. 2765 S. TEMPERANCE AVE. FOWLER, CA. 93625 Phone: (559) 834-4300 FAX: (559) 834-4377	Job LAFAYETTE	Page 78 of 134
	Project 1620' GUYED TOWER	Date 11:40:25 11/02/18
	Client KLFY	Designed by M.C.

Critical Deflections and Radius of Curvature - Service Wind

<i>Elevation</i>	<i>Appurtenance</i>	<i>Gov. Load Comb.</i>	<i>Deflection in</i>	<i>Tilt °</i>	<i>Twist °</i>	<i>Radius of Curvature ft</i>
1612'6"	Guy	65	7.106	0.1854	0.4142	55852
1562'	Side Mount Standoff (1)	65	8.047	0.1815	0.4244	7842
1552'	KLPB DIELECTRIC ANTENNA	65	8.222	0.1785	0.4257	4742
1542'	Side Mount Standoff (1)	65	8.390	0.1751	0.4257	4145
1440'	Guy	65	9.756	0.1477	0.4067	44043
1230'	Guy	65	10.773	0.0446	0.3905	40666
1050'	Guy	65	9.541	0.0479	0.3817	45586
960'	30' WHIP ANTENNA	65	8.583	0.0569	0.3899	159650
950'	ERI 12 BAY FM ANTENNA	65	8.455	0.0581	0.3926	146516
870'	Guy	65	7.392	0.0496	0.3987	34759
637'6"	Guy	67	5.959	0.0282	0.4153	33876
460'	10' GRID DISH	67	6.213	0.0084	0.4197	411913
420'	Guy	67	6.255	0.0140	0.4103	29991
400'	10' RFS DISH	67	6.346	0.0160	0.4091	597880
195'	Guy	63	5.342	0.0793	0.2557	106354
180'	MICROWAVE DISH	63	5.092	0.0862	0.2495	96801
16'	GPS	63	0.543	0.1598	0.0931	195694

Maximum Tower Deflections - Design Wind

<i>Section No.</i>	<i>Elevation ft</i>	<i>Horz. Deflection in</i>	<i>Gov. Load Comb.</i>	<i>Tilt °</i>	<i>Twist °</i>
T1	1620 - 1612.5	87.070	10	0.3625	1.2163
T2	1612.5 - 1605	86.825	10	0.3744	1.2164
T3	1605 - 1575	86.621	10	0.3798	1.2221
T4	1575 - 1545	85.836	10	0.3892	1.2560
T5	1545 - 1515	84.903	10	0.3867	1.2808
T6	1515 - 1485	83.701	10	0.3832	1.2642
T7	1485 - 1455	82.717	13	0.3902	1.2418
T8	1455 - 1447.5	81.783	13	0.4183	1.2209
T9	1447.5 - 1440	81.568	13	0.4279	1.2169
T10	1440 - 1432.5	81.367	13	0.4392	1.2129
T11	1432.5 - 1425	81.218	13	0.4424	1.2143
T12	1425 - 1395	81.071	13	0.4456	1.2157
T13	1395 - 1365	80.404	13	0.4379	1.2207
T14	1365 - 1335	79.490	13	0.4052	1.2240
T15	1335 - 1305	78.189	13	0.3603	1.2232
T16	1305 - 1275	76.462	13	0.3597	1.2172
T17	1275 - 1245	74.440	13	0.3813	1.2087
T18	1245 - 1237.5	72.249	13	0.3779	1.1964
T19	1237.5 - 1230	71.713	13	0.3719	1.1937
T20	1230 - 1222.5	71.187	13	0.3637	1.1912
T21	1222.5 - 1215	70.717	13	0.3591	1.1924
T22	1215 - 1185	70.253	13	0.3545	1.1937
T23	1185 - 1155	68.357	13	0.3439	1.1980
T24	1155 - 1125	66.313	13	0.3575	1.2003
T25	1125 - 1095	64.049	13	0.3686	1.1991
T26	1095 - 1065	61.731	12	0.3847	1.1954
T27	1065 - 1057.5	59.341	12	0.3904	1.1885
T28	1057.5 - 1050	58.741	12	0.3958	1.1864

<p style="text-align: center;">tnxTower</p> <p style="text-align: center;">TASHJIAN TOWERS CORP. 2765 S. TEMPERANCE AVE. FOWLER, CA. 93625 Phone: (559) 834-4300 FAX: (559) 834-4377</p>	<p>Job</p> <p style="text-align: center;">LAFAYETTE</p>	<p>Page</p> <p style="text-align: center;">79 of 134</p>
	<p>Project</p> <p style="text-align: center;">1620' GUYED TOWER</p>	<p>Date</p> <p style="text-align: center;">11:40:25 11/02/18</p>
	<p>Client</p> <p style="text-align: center;">KLFY</p>	<p>Designed by</p> <p style="text-align: center;">M.C.</p>

Section No.	Elevation ft	Horz. Deflection in	Gov. Load Comb.	Tilt °	Twist °
T29	1050 - 1042.5	58.148	12	0.4023	1.1844
T30	1042.5 - 1035	57.606	12	0.4044	1.1897
T31	1035 - 1005	57.070	12	0.4064	1.1952
T32	1005 - 975	54.896	12	0.3962	1.2183
T33	975 - 945	52.596	12	0.3813	1.2391
T34	945 - 915	50.106	12	0.3936	1.2603
T35	915 - 885	48.301	8	0.3974	1.2641
T36	885 - 877.5	48.084	4	0.3792	1.2712
T37	877.5 - 870	48.122	20	0.3700	1.2719
T38	870 - 862.5	48.168	20	0.3587	1.2726
T39	862.5 - 855	48.278	20	0.3523	1.2796
T40	855 - 825	48.376	20	0.3459	1.2867
T41	825 - 795	48.628	20	0.3333	1.3164
T42	795 - 765	48.539	20	0.3362	1.3422
T43	765 - 735	48.033	20	0.3452	1.3787
T44	735 - 705	47.088	20	0.3508	1.4038
T45	705 - 675	46.130	19	0.3433	1.4171
T46	675 - 645	45.226	19	0.3172	1.4181
T47	645 - 637.5	44.324	19	0.2686	1.4132
T48	637.5 - 630	44.132	19	0.2516	1.4117
T49	630 - 622.5	44.027	19	0.2374	1.4171
T50	622.5 - 615	43.954	19	0.2232	1.4230
T51	615 - 585	43.896	19	0.2099	1.4293
T52	585 - 555	43.697	19	0.1684	1.4516
T53	555 - 525	43.502	19	0.1409	1.4766
T54	525 - 495	43.191	19	0.1208	1.4994
T55	495 - 465	42.957	18	0.1013	1.5112
T56	465 - 435	42.592	18	0.0756	1.5122
T57	435 - 427.5	42.214	18	0.0563	1.4917
T58	427.5 - 420	42.128	18	0.0497	1.4850
T59	420 - 412.5	42.058	18	0.0415	1.4788
T60	412.5 - 405	42.084	18	0.0370	1.4800
T61	405 - 375	42.129	18	0.0325	1.4823
T62	375 - 345	42.263	18	0.0405	1.4595
T63	345 - 315	42.118	18	0.0832	1.4257
T64	315 - 285	41.627	18	0.1526	1.3505
T65	285 - 255	40.477	18	0.2422	1.2606
T66	255 - 225	38.582	18	0.3418	1.1604
T67	225 - 195	35.933	18	0.4387	1.0503
T68	195 - 187.5	32.640	2	0.5227	0.9377
T69	187.5 - 180	31.840	2	0.5418	0.9267
T70	180 - 172.5	30.990	2	0.5608	0.9169
T71	172.5 - 165	30.100	2	0.5811	0.9033
T72	165 - 135	29.174	2	0.6021	0.8878
T73	135 - 105	25.098	2	0.6903	0.7691
T74	105 - 75	20.332	2	0.7786	0.6342
T75	75 - 45	14.925	2	0.8580	0.4928
T76	45 - 37.5	9.120	2	0.9191	0.4138
T77	37.5 - 30	7.613	2	0.9306	0.3951
T78	30 - 22.5	6.092	2	0.9405	0.3776
T79	22.5 - 15	4.558	2	0.9486	0.3622
T80	15 - 0	3.023	2	0.9527	0.3376

Critical Deflections and Radius of Curvature - Design Wind

tnxTower TASHJIAN TOWERS CORP. 2765 S. TEMPERANCE AVE. FOWLER, CA. 93625 Phone: (559) 834-4300 FAX: (559) 834-4377	Job LAFAYETTE	Page 80 of 134
	Project 1620' GUYED TOWER	Date 11:40:25 11/02/18
	Client KLFY	Designed by M.C.

Elevation	Appurtenance	Gov. Load Comb.	Deflection in	Tilt °	Twist °	Radius of Curvature ft
1612'6"	Guy	10	86.825	0.3744	1.2164	13945
1562'	Side Mount Standoff (1)	10	85.459	0.3892	1.2706	11472
1552'	KLPB DIELECTRIC ANTENNA	10	85.143	0.3879	1.2784	6494
1542'	Side Mount Standoff (1)	10	84.796	0.3862	1.2808	5333
1440'	Guy	13	81.367	0.4392	1.2129	10225
1230'	Guy	13	71.187	0.3637	1.1912	9259
1050'	Guy	12	58.148	0.4023	1.1844	9408
960'	30' WHIP ANTENNA	12	51.380	0.3880	1.2510	26279
950'	ERI 12 BAY FM ANTENNA	12	50.538	0.3920	1.2578	21305
870'	Guy	20	48.168	0.3587	1.2726	8530
637'6"	Guy	19	44.132	0.2516	1.4117	6653
460'	10' GRID DISH	18	42.526	0.0704	1.5101	50820
420'	Guy	18	42.058	0.0415	1.4788	5890
400'	10' RFS DISH	18	42.159	0.0307	1.4816	73088
195'	Guy	2	32.640	0.5227	0.9377	21143
180'	MICROWAVE DISH	2	30.990	0.5608	0.9169	17483
16'	GPS	2	3.227	0.9523	0.3411	36524

Bolt Design Data

Section No.	Elevation ft	Component Type	Bolt Grade	Bolt Size in	Number Of Bolts	Maximum Load per Bolt K	Allowable Load per Bolt K	Ratio Load Allowable	Allowable Ratio	Criteria	
T1	1620	Diagonal	A325N	0.750	2	5.212	33.495	0.156	✓	1	Gusset Bearing
		Top Girt	A325N	0.750	2	3.525	33.495	0.105	✓	1	Gusset Bearing
T2	1612.5	Leg	A325N	1.000	6	9.136	54.517	0.168	✓	1	Bolt Tension
		Diagonal	A325N	0.750	2	7.868	39.761	0.198	✓	1	Bolt Shear
		Top Guy	A325N	0.750	8	8.304	39.694	0.209	✓	1	Gusset Bearing
		Pull-Off@1612.5									
T3	1605	Leg	A325N	1.250	6	9.342	87.220	0.107	✓	1	Bolt Tension
		Diagonal	A325N	0.750	2	6.020	20.934	0.288	✓	1	Member Block Shear
		Horizontal	A325N	0.750	2	3.099	20.934	0.148	✓	1	Member Block Shear
		Top Girt	A325N	0.750	2	3.962	20.934	0.189	✓	1	Member Block Shear
T4	1575	Leg	A325N	1.250	6	11.322	87.220	0.130	✓	1	Bolt Tension
		Diagonal	A325N	0.750	2	3.771	15.701	0.240	✓	1	Member Block Shear
		Horizontal	A325N	0.750	2	2.000	15.701	0.127	✓	1	Member Block Shear
		Top Girt	A325N	0.750	2	2.149	15.701	0.137	✓	1	Member Block Shear
T5	1545	Leg	A325N	1.250	6	11.562	87.220	0.133	✓	1	Bolt Tension
		Diagonal	A325N	0.750	2	3.357	15.701	0.214	✓	1	Member Block Shear
		Horizontal	A325N	0.750	2	2.058	15.701	0.131	✓	1	Member Block Shear
		Top Girt	A325N	0.750	2	0.868	15.701	0.055	✓	1	Member Block Shear
T6	1515	Leg	A325N	1.250	6	10.446	87.220	0.120	✓	1	Bolt Tension

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	Project	1620' GUYED TOWER	Date	11:40:25 11/02/18
	Client	KLFY	Designed by	M.C.

Section No.	Elevation ft	Component Type	Bolt Grade	Bolt Size in	Number Of Bolts	Maximum Load per Bolt K	Allowable Load per Bolt K	Ratio Load Allowable	Allowable Ratio	Criteria	
T7	1485	Diagonal	A325N	0.750	2	5.489	15.701	0.350	✓	1	Member Block Shear
		Horizontal	A325N	0.750	2	3.003	15.701	0.191	✓	1	Member Block Shear
		Top Girt	A325N	0.750	2	2.115	15.701	0.135	✓	1	Member Block Shear
		Leg	A325N	1.250	6	14.915	87.220	0.171	✓	1	Bolt Tension
		Diagonal	A325N	0.750	2	7.537	20.934	0.360	✓	1	Member Block Shear
		Horizontal	A325N	0.750	2	4.190	20.934	0.200	✓	1	Member Block Shear
T8	1455	Top Girt	A325N	0.750	2	3.307	20.934	0.158	✓	1	Member Block Shear
		Diagonal	A325N	0.750	2	8.107	31.402	0.258	✓	1	Member Block Shear
T9	1447.5	Top Girt	A325N	0.750	2	4.489	31.402	0.143	✓	1	Member Block Shear
		Diagonal	A325N	0.750	2	8.520	31.402	0.271	✓	1	Member Block Shear
T10	1440	Top Girt	A325N	0.750	2	4.831	31.402	0.154	✓	1	Member Block Shear
		Diagonal	A325N	0.750	2	17.439	39.761	0.439	✓	1	Bolt Shear
T11	1432.5	Top Guy Pull-Off@1440	A325N	0.750	8	8.842	39.694	0.223	✓	1	Gusset Bearing
		Leg	A325N	1.000	6	17.972	54.517	0.330	✓	1	Bolt Tension
		Diagonal	A325N	0.750	2	17.539	39.761	0.441	✓	1	Bolt Shear
T12	1425	Top Girt	A325N	0.750	2	0.173	31.402	0.006	✓	1	Member Block Shear
		Leg	A325N	1.250	8	14.638	87.220	0.168	✓	1	Bolt Tension
		Diagonal	A325N	0.750	2	7.556	31.402	0.241	✓	1	Member Block Shear
		Horizontal	A325N	0.750	2	3.997	31.402	0.127	✓	1	Member Block Shear
T13	1395	Top Girt	A325N	0.750	2	9.253	31.402	0.295	✓	1	Member Block Shear
		Leg	A325N	1.250	8	16.592	87.220	0.190	✓	1	Bolt Tension
		Diagonal	A325N	0.750	2	5.026	20.934	0.240	✓	1	Member Block Shear
		Horizontal	A325N	0.750	2	3.658	20.934	0.175	✓	1	Member Block Shear
T14	1365	Top Girt	A325N	0.750	2	2.867	20.934	0.137	✓	1	Member Block Shear
		Leg	A325N	1.250	8	17.543	87.220	0.201	✓	1	Bolt Tension
		Diagonal	A325N	0.750	2	2.704	15.701	0.172	✓	1	Member Block Shear
		Horizontal	A325N	0.750	2	3.867	15.701	0.246	✓	1	Member Block Shear
T15	1335	Top Girt	A325N	0.750	2	1.444	15.701	0.092	✓	1	Member Block Shear
		Leg	A325N	1.250	8	17.253	87.220	0.198	✓	1	Bolt Tension
		Diagonal	A325N	0.750	2	4.787	15.701	0.305	✓	1	Member Block Shear
		Horizontal	A325N	0.750	2	3.877	15.701	0.247	✓	1	Member Block Shear
		Top Girt	A325N	0.750	2	1.753	15.701	0.112	✓	1	Member Block Shear

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	Project	1620' GUYED TOWER	Date	11:40:25 11/02/18
	Client	KLFY	Designed by	M.C.

Section No.	Elevation ft	Component Type	Bolt Grade	Bolt Size in	Number Of Bolts	Maximum Load per Bolt K	Allowable Load per Bolt K	Ratio Load Allowable	Allowable Ratio	Criteria	
T16	1305	Leg	A325N	1.250	8	16.742	87.220	0.192	✓	1	Bolt Tension
		Diagonal	A325N	0.750	2	7.044	20.934	0.336	✓	1	Member Block Shear
		Horizontal	A325N	0.750	2	3.982	20.934	0.190	✓	1	Member Block Shear
		Top Girt	A325N	0.750	2	2.996	20.934	0.143	✓	1	Member Block Shear
T17	1275	Leg	A325N	1.250	8	19.539	87.220	0.224	✓	1	Bolt Tension
		Diagonal	A325N	0.750	2	9.250	20.934	0.442	✓	1	Member Block Shear
		Horizontal	A325N	0.750	2	5.214	20.934	0.249	✓	1	Member Block Shear
		Top Girt	A325N	0.750	2	4.311	20.934	0.206	✓	1	Member Block Shear
T18	1245	Leg	A325N	1.250	8	20.346	87.220	0.233	✓	1	Bolt Tension
		Diagonal	A325N	0.750	2	9.937	31.402	0.316	✓	1	Member Block Shear
		Top Girt	A325N	0.750	2	5.535	31.402	0.176	✓	1	Member Block Shear
T19	1237.5	Leg	A325N	1.250	8	21.296	87.220	0.244	✓	1	Bolt Tension
		Diagonal	A325N	0.750	2	10.208	31.402	0.325	✓	1	Member Block Shear
		Top Girt	A325N	0.750	2	5.836	31.402	0.186	✓	1	Member Block Shear
T20	1230	Leg	A325N	1.250	8	20.776	87.220	0.238	✓	1	Bolt Tension
		Diagonal	A325N	0.750	2	20.182	39.761	0.508	✓	1	Bolt Shear
		Top Guy Pull-Off@1230	A325N	0.750	8	8.398	39.694	0.212	✓	1	Gusset Bearing
T21	1222.5	Leg	A325N	1.250	8	20.817	87.220	0.239	✓	1	Bolt Tension
		Diagonal	A325N	0.750	2	20.230	39.761	0.509	✓	1	Bolt Shear
		Top Girt	A325N	0.750	2	0.250	31.402	0.008	✓	1	Member Block Shear
T22	1215	Leg	A325N	1.250	8	21.153	87.220	0.243	✓	1	Bolt Tension
		Diagonal	A325N	0.750	2	7.060	31.402	0.225	✓	1	Member Block Shear
		Horizontal	A325N	0.750	2	4.607	31.402	0.147	✓	1	Member Block Shear
		Top Girt	A325N	0.750	2	10.732	31.402	0.342	✓	1	Member Block Shear
T23	1185	Leg	A325N	1.250	8	20.589	87.220	0.236	✓	1	Bolt Tension
		Diagonal	A325N	0.750	2	5.022	20.934	0.240	✓	1	Member Block Shear
		Horizontal	A325N	0.750	2	4.345	20.934	0.208	✓	1	Member Block Shear
		Top Girt	A325N	0.750	2	2.752	20.934	0.131	✓	1	Member Block Shear
T24	1155	Diagonal	A325N	0.750	2	2.910	31.402	0.093	✓	1	Member Block Shear
		Horizontal	A325N	0.750	2	4.314	15.701	0.275	✓	1	Member Block Shear
		Top Girt	A325N	0.750	2	1.584	15.701	0.101	✓	1	Member Block Shear
T25	1125	Diagonal	A325N	0.750	2	5.103	31.402	0.162	✓	1	Member Block Shear

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	Client	KLFY	Designed by	M.C.

Section No.	Elevation ft	Component Type	Bolt Grade	Bolt Size in	Number Of Bolts	Maximum Load per Bolt K	Allowable Load per Bolt K	Ratio Load Allowable	Allowable Ratio	Criteria	
T26	1095	Horizontal	A325N	0.750	2	4.412	31.402	0.140	✓	1	Member Block Shear
		Top Girt	A325N	0.750	2	1.881	31.402	0.060	✓	1	Member Block Shear
		Diagonal	A325N	0.750	2	7.517	31.402	0.239	✓	1	Member Block Shear
		Horizontal	A325N	0.750	2	4.734	20.934	0.226	✓	1	Member Block Shear
T27	1065	Top Girt	A325N	0.750	2	3.268	20.934	0.156	✓	1	Member Block Shear
		Leg	A325N	1.250	8	23.281	87.220	0.267	✓	1	Bolt Tension
		Diagonal	A325N	0.750	2	8.179	31.402	0.260	✓	1	Member Block Shear
T28	1057.5	Top Girt	A325N	0.750	2	4.564	31.402	0.145	✓	1	Member Block Shear
		Leg	A325N	1.250	8	23.836	87.220	0.273	✓	1	Bolt Tension
		Diagonal	A325N	0.750	2	8.389	31.402	0.267	✓	1	Member Block Shear
T29	1050	Top Girt	A325N	0.750	2	4.883	31.402	0.156	✓	1	Member Block Shear
		Leg	A325N	1.250	8	22.315	87.220	0.256	✓	1	Bolt Tension
		Diagonal	A325N	0.750	2	22.791	39.761	0.573	✓	1	Bolt Shear
T30	1042.5	Top Guy Pull-Off@1050	A325N	0.750	8	8.039	39.694	0.203	✓	1	Gusset Bearing
		Leg	A325N	1.250	8	22.362	87.220	0.256	✓	1	Bolt Tension
		Diagonal	A325N	0.750	2	22.927	39.761	0.577	✓	1	Bolt Shear
T31	1035	Top Girt	A325N	0.750	2	0.347	31.402	0.011	✓	1	Member Block Shear
		Leg	A325N	1.250	8	22.698	87.220	0.260	✓	1	Bolt Tension
		Diagonal	A325N	0.750	2	9.094	31.402	0.290	✓	1	Member Block Shear
T32	1005	Horizontal	A325N	0.750	2	4.894	31.402	0.156	✓	1	Member Block Shear
		Top Girt	A325N	0.750	2	12.124	31.402	0.386	✓	1	Member Block Shear
		Leg	A325N	1.250	8	23.961	87.220	0.275	✓	1	Bolt Tension
		Diagonal	A325N	0.750	2	6.952	31.402	0.221	✓	1	Member Block Shear
T33	975	Horizontal	A325N	0.750	2	4.980	20.934	0.238	✓	1	Member Block Shear
		Top Girt	A325N	0.750	2	3.829	20.934	0.183	✓	1	Member Block Shear
		Diagonal	A325N	0.750	2	4.589	15.701	0.292	✓	1	Member Block Shear
		Horizontal	A325N	0.750	2	5.012	15.701	0.319	✓	1	Member Block Shear
T34	945	Top Girt	A325N	0.750	2	2.486	15.701	0.158	✓	1	Member Block Shear
		Diagonal	A325N	0.750	2	6.377	15.701	0.406	✓	1	Member Block Shear
		Horizontal	A325N	0.750	2	4.899	15.701	0.312	✓	1	Member Block Shear
T35	915	Top Girt	A325N	0.750	2	2.988	15.701	0.190	✓	1	Member Block Shear
		Diagonal	A325N	0.750	2	8.465	31.402	0.270	✓	1	Member Block Shear

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Section No.	Elevation ft	Component Type	Bolt Grade	Bolt Size in	Number Of Bolts	Maximum Load per Bolt K	Allowable Load per Bolt K	Ratio Load Allowable	Allowable Ratio	Criteria	
T36	885	Horizontal	A325N	0.750	2	4.960	20.934	0.237	✓	1	Member Block Shear
		Top Girt	A325N	0.750	2	4.140	20.934	0.198	✓	1	Member Block Shear
		Leg	A325N	1.250	8	24.461	87.220	0.280	✓	1	Bolt Tension
		Diagonal	A325N	0.750	2	9.179	31.402	0.292	✓	1	Member Block Shear
T37	877.5	Top Girt	A325N	0.750	2	5.110	31.402	0.163	✓	1	Member Block Shear
		Leg	A325N	1.250	8	25.105	87.220	0.288	✓	1	Bolt Tension
		Diagonal	A325N	0.750	2	9.351	31.402	0.298	✓	1	Member Block Shear
T38	870	Top Girt	A325N	0.750	2	5.418	31.402	0.173	✓	1	Member Block Shear
		Leg	A325N	1.250	8	25.064	87.220	0.287	✓	1	Bolt Tension
		Diagonal	A325N	0.750	2	23.507	39.761	0.591	✓	1	Bolt Shear
T39	862.5	Top Guy Pull-Off@870	A325N	0.750	8	8.236	39.694	0.207	✓	1	Gusset Bearing
		Leg	A325N	1.250	8	25.111	87.220	0.288	✓	1	Bolt Tension
		Diagonal	A325N	0.750	2	23.863	39.761	0.600	✓	1	Bolt Shear
T40	855	Top Girt	A325N	0.750	2	0.391	31.402	0.012	✓	1	Member Block Shear
		Leg	A325N	1.250	8	27.814	87.220	0.319	✓	1	Bolt Tension
		Diagonal	A325N	0.750	2	7.606	31.402	0.242	✓	1	Member Block Shear
T41	825	Horizontal	A325N	0.750	2	5.781	31.402	0.184	✓	1	Member Block Shear
		Top Girt	A325N	0.750	2	12.561	31.402	0.400	✓	1	Member Block Shear
		Leg	A325N	1.250	8	28.241	87.220	0.324	✓	1	Bolt Tension
		Diagonal	A325N	0.750	2	4.948	31.402	0.158	✓	1	Member Block Shear
T42	795	Horizontal	A325N	0.750	2	5.870	20.934	0.280	✓	1	Member Block Shear
		Top Girt	A325N	0.750	2	2.822	20.934	0.135	✓	1	Member Block Shear
		Leg	A325N	1.250	8	28.565	87.220	0.328	✓	1	Bolt Tension
		Diagonal	A325N	0.750	2	2.350	15.701	0.150	✓	1	Member Block Shear
T43	765	Horizontal	A325N	0.750	2	5.938	15.701	0.378	✓	1	Member Block Shear
		Top Girt	A325N	0.750	2	1.229	15.701	0.078	✓	1	Member Block Shear
		Leg	A325N	1.250	8	28.330	87.220	0.325	✓	1	Bolt Tension
		Diagonal	A325N	0.750	2	5.251	15.701	0.334	✓	1	Member Block Shear
T44	735	Horizontal	A325N	0.750	2	5.925	15.701	0.377	✓	1	Member Block Shear
		Top Girt	A325N	0.750	2	1.609	15.701	0.102	✓	1	Member Block Shear
		Diagonal	A325N	0.750	2	7.946	15.701	0.506	✓	1	Member Block Shear
		Horizontal	A325N	0.750	2	5.886	15.701	0.375	✓	1	Member Block Shear

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Section No.	Elevation ft	Component Type	Bolt Grade	Bolt Size in	Number Of Bolts	Maximum Load per Bolt K	Allowable Load per Bolt K	Ratio Load Allowable	Allowable Ratio	Criteria	
T45	705	Top Girt	A325N	0.750	2	3.234	15.701	0.206	✓	1	Member Block Shear
		Diagonal	A325N	0.750	2	10.530	31.402	0.335	✓	1	Member Block Shear
		Horizontal	A325N	0.750	2	6.135	20.934	0.293	✓	1	Member Block Shear
T46	675	Top Girt	A325N	0.750	2	4.826	20.934	0.231	✓	1	Member Block Shear
		Diagonal	A325N	0.750	2	12.940	31.402	0.412	✓	1	Member Block Shear
		Horizontal	A325N	0.750	2	7.090	31.402	0.226	✓	1	Member Block Shear
T47	645	Top Girt	A325N	0.750	2	6.165	31.402	0.196	✓	1	Member Block Shear
		Leg	A325N	1.250	8	34.844	87.220	0.400	✓	1	Bolt Tension
		Diagonal	A325N	0.750	2	12.787	31.402	0.407	✓	1	Member Block Shear
T48	637.5	Top Girt	A325N	0.750	2	7.346	31.402	0.234	✓	1	Member Block Shear
		Leg	A325N	1.250	8	33.387	87.220	0.383	✓	1	Bolt Tension
		Diagonal	A325N	0.750	2	25.194	39.761	0.634	✓	1	Bolt Shear
T49	630	Top Guy Pull-Off@637.5	A325N	0.750	8	8.678	39.694	0.219	✓	1	Gusset Bearing
		Leg	A325N	1.250	8	33.441	87.220	0.383	✓	1	Bolt Tension
		Diagonal	A325N	0.750	2	25.693	39.761	0.646	✓	1	Bolt Shear
T50	622.5	Top Girt	A325N	0.750	2	0.619	31.402	0.020	✓	1	Member Block Shear
		Leg	A325N	1.250	8	35.194	87.220	0.404	✓	1	Bolt Tension
		Diagonal	A325N	0.750	2	8.250	31.402	0.263	✓	1	Member Block Shear
T51	615	Top Girt	A325N	0.750	2	13.555	31.402	0.432	✓	1	Member Block Shear
		Leg	A325N	1.250	8	32.768	87.220	0.376	✓	1	Bolt Tension
		Diagonal	A325N	0.750	2	7.826	31.402	0.249	✓	1	Member Block Shear
T52	585	Horizontal	A325N	0.750	2	7.169	31.402	0.228	✓	1	Member Block Shear
		Top Girt	A325N	0.750	2	4.597	31.402	0.146	✓	1	Member Block Shear
		Leg	A325N	1.250	8	32.227	87.220	0.369	✓	1	Bolt Tension
T53	555	Diagonal	A325N	0.750	2	5.675	20.934	0.271	✓	1	Member Block Shear
		Horizontal	A325N	0.750	2	6.774	20.934	0.324	✓	1	Member Block Shear
		Top Girt	A325N	0.750	2	3.224	20.934	0.154	✓	1	Member Block Shear
T54	525	Leg	A325N	1.250	8	32.237	87.220	0.370	✓	1	Bolt Tension
		Diagonal	A325N	0.750	2	3.495	15.701	0.223	✓	1	Member Block Shear
		Horizontal	A325N	0.750	2	6.700	15.701	0.427	✓	1	Member Block Shear
		Top Girt	A325N	0.750	2	2.000	15.701	0.127	✓	1	Member Block Shear
		Diagonal	A325N	0.750	2	3.287	15.701	0.209	✓	1	Member Block Shear

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Section No.	Elevation ft	Component Type	Bolt Grade	Bolt Size in	Number Of Bolts	Maximum Load per Bolt K	Allowable Load per Bolt K	Ratio Load Allowable	Allowable Ratio	Criteria	
T55	495	Horizontal	A325N	0.750	2	6.779	15.701	0.432	✓	1	Member Block Shear
		Top Girt	A325N	0.750	2	0.981	15.701	0.063	✓	1	Member Block Shear
		Diagonal	A325N	0.750	2	5.603	20.934	0.268	✓	1	Member Block Shear
		Horizontal	A325N	0.750	2	6.979	20.934	0.333	✓	1	Member Block Shear
T56	465	Top Girt	A325N	0.750	2	2.160	20.934	0.103	✓	1	Member Block Shear
		Diagonal	A325N	0.750	2	8.565	31.402	0.273	✓	1	Member Block Shear
		Horizontal	A325N	0.750	2	7.338	31.402	0.234	✓	1	Member Block Shear
T57	435	Top Girt	A325N	0.750	2	3.550	31.402	0.113	✓	1	Member Block Shear
		Leg	A325N	1.250	8	36.072	87.220	0.414	✓	1	Bolt Tension
		Diagonal	A325N	0.750	2	9.297	31.402	0.296	✓	1	Member Block Shear
T58	427.5	Top Girt	A325N	0.750	2	5.060	31.402	0.161	✓	1	Member Block Shear
		Leg	A325N	1.250	8	36.902	87.220	0.423	✓	1	Bolt Tension
		Diagonal	A325N	0.750	2	8.707	31.402	0.277	✓	1	Member Block Shear
T59	420	Top Girt	A325N	0.750	2	5.205	31.402	0.166	✓	1	Member Block Shear
		Leg	A325N	1.250	8	34.139	87.220	0.391	✓	1	Bolt Tension
		Diagonal	A325N	0.750	2	32.008	39.761	0.805	✓	1	Bolt Shear
T60	412.5	Top Guy Pull-Off@420	A325N	0.750	8	9.625	39.694	0.242	✓	1	Gusset Bearing
		Leg	A325N	1.250	8	34.200	87.220	0.392	✓	1	Bolt Tension
		Diagonal	A325N	0.750	2	33.049	39.761	0.831	✓	1	Bolt Shear
T61	405	Top Girt	A325N	0.750	2	1.131	31.402	0.036	✓	1	Member Block Shear
		Leg	A325N	1.250	8	35.886	87.220	0.411	✓	1	Bolt Tension
		Diagonal	A325N	0.750	2	15.102	31.402	0.481	✓	1	Member Block Shear
T62	375	Horizontal	A325N	0.750	2	8.233	31.402	0.262	✓	1	Member Block Shear
		Top Girt	A325N	0.750	2	17.333	31.402	0.552	✓	1	Member Block Shear
		Leg	A325N	1.250	8	39.442	87.220	0.452	✓	1	Bolt Tension
		Diagonal	A325N	0.750	2	12.432	31.402	0.396	✓	1	Member Block Shear
T63	345	Horizontal	A325N	0.750	2	8.198	31.402	0.261	✓	1	Member Block Shear
		Top Girt	A325N	0.750	2	6.979	31.402	0.222	✓	1	Member Block Shear
		Leg	A325N	1.250	8	43.260	87.220	0.496	✓	1	Bolt Tension
		Diagonal	A325N	0.750	2	9.640	15.701	0.614	✓	1	Member Block Shear
		Horizontal	A325N	0.750	2	8.991	20.934	0.430	✓	1	Member Block Shear
		Top Girt	A325N	0.750	2	5.435	20.934	0.260	✓	1	Member Block Shear

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Section No.	Elevation ft	Component Type	Bolt Grade	Bolt Size in	Number Of Bolts	Maximum Load per Bolt K	Allowable Load per Bolt K	Ratio Load Allowable	Allowable Ratio	Criteria
T64	315	Diagonal	A325N	0.750	2	7.011	15.701	0.447 ✓	1	Member Block Shear
		Horizontal	A325N	0.750	2	9.490	15.701	0.604 ✓	1	Member Block Shear
		Top Girt	A325N	0.750	2	3.907	15.701	0.249 ✓	1	Member Block Shear
T65	285	Diagonal	A325N	0.750	2	3.770	15.701	0.240 ✓	1	Member Block Shear
		Horizontal	A325N	0.750	2	9.667	15.701	0.616 ✓	1	Member Block Shear
		Top Girt	A325N	0.750	2	2.085	15.701	0.133 ✓	1	Member Block Shear
T66	255	Diagonal	A325N	0.750	2	5.738	15.701	0.365 ✓	1	Member Block Shear
		Horizontal	A325N	0.750	2	9.661	15.701	0.615 ✓	1	Member Block Shear
		Top Girt	A325N	0.750	2	1.847	15.701	0.118 ✓	1	Member Block Shear
T67	225	Leg	A325N	1.250	8	43.737	87.220	0.501 ✓	1	Bolt Tension
		Diagonal	A325N	0.750	2	8.449	15.701	0.538 ✓	1	Member Block Shear
		Horizontal	A325N	0.750	2	9.435	20.934	0.451 ✓	1	Member Block Shear
		Top Girt	A325N	0.750	2	3.654	20.934	0.175 ✓	1	Member Block Shear
T68	195	Leg	A325N	1.250	8	41.758	87.220	0.479 ✓	1	Bolt Tension
		Diagonal	A325N	0.750	2	26.008	39.761	0.654 ✓	1	Bolt Shear
		Top Guy Pull-Off@195	A325N	0.750	8	7.249	39.694	0.183 ✓	1	Gusset Bearing
T69	187.5	Leg	A325N	1.250	8	41.820	87.220	0.479 ✓	1	Bolt Tension
		Diagonal	A325N	0.750	2	26.769	39.761	0.673 ✓	1	Bolt Shear
		Top Girt	A325N	0.750	2	1.101	31.402	0.035 ✓	1	Member Block Shear
T70	180	Leg	A325N	1.250	8	45.385	87.220	0.520 ✓	1	Bolt Tension
		Diagonal	A325N	0.750	2	5.886	31.402	0.187 ✓	1	Member Block Shear
		Top Girt	A325N	0.750	2	14.011	31.402	0.446 ✓	1	Member Block Shear
T71	172.5	Leg	A325N	1.250	8	46.027	87.220	0.528 ✓	1	Bolt Tension
		Diagonal	A325N	0.750	2	5.543	31.402	0.177 ✓	1	Member Block Shear
		Top Girt	A325N	0.750	2	3.507	31.402	0.112 ✓	1	Member Block Shear
T72	165	Diagonal	A325N	0.750	2	4.639	15.701	0.295 ✓	1	Member Block Shear
		Horizontal	A325N	0.750	2	9.927	20.934	0.474 ✓	1	Member Block Shear
		Top Girt	A325N	0.750	2	2.697	20.934	0.129 ✓	1	Member Block Shear
T73	135	Diagonal	A325N	0.750	2	4.952	15.701	0.315 ✓	1	Member Block Shear
		Horizontal	A325N	0.750	2	10.000	15.701	0.637 ✓	1	Member Block Shear
		Top Girt	A325N	0.750	2	1.549	15.701	0.099 ✓	1	Member Block Shear
T74	105	Leg	A325N	1.250	8	46.899	87.220	0.538 ✓	1	Bolt Tension

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Section No.	Elevation ft	Component Type	Bolt Grade	Bolt Size in	Number Of Bolts	Maximum Load per Bolt K	Allowable Load per Bolt K	Ratio Load Allowable	Allowable Ratio	Criteria	
T75	75	Diagonal	A325N	0.750	2	7.551	15.701	0.481	✓	1	Member Block Shear
		Horizontal	A325N	0.750	2	9.954	15.701	0.634	✓	1	Member Block Shear
		Top Girt	A325N	0.750	4	1.525	14.579	0.105	✓	1	Member Block Shear
		Leg	A325N	1.250	8	44.538	87.220	0.511	✓	1	Bolt Tension
		Diagonal	A325N	0.750	2	10.123	31.402	0.322	✓	1	Member Block Shear
		Horizontal	A325N	0.750	2	9.649	20.934	0.461	✓	1	Member Block Shear
T76	45	Top Girt	A325N	0.750	8	1.177	18.691	0.063	✓	1	Member Block Shear
		Diagonal	A325N	0.750	2	10.679	31.402	0.340	✓	1	Member Block Shear
		Top Girt	A325N	0.750	2	5.907	31.402	0.188	✓	1	Member Block Shear
T77	37.5	Diagonal	A325N	1.000	2	10.759	36.513	0.295	✓	1	Member Block Shear
		Top Girt	A325N	1.250	9	1.381	66.603	0.021	✓	1	Gusset Bearing
T78	30	Diagonal	A325N	0.750	2	14.296	39.761	0.360	✓	1	Bolt Shear
		Top Girt	A325N	0.750	8	1.676	39.694	0.042	✓	1	Gusset Bearing
T79	22.5	Leg	A325N	1.250	8	40.237	87.220	0.461	✓	1	Bolt Tension
		Diagonal	A325N	0.750	2	19.081	39.761	0.480	✓	1	Bolt Shear
		Top Girt	A325N	0.750	2	5.644	31.402	0.180	✓	1	Member Block Shear
T80	15	Leg	A325N	1.250	8	44.389	87.220	0.509	✓	1	Bolt Tension
		Diagonal	A325N	1.000	2	23.568	35.343	0.667	✓	1	Bolt Shear
		Horizontal	A325N	1.000	2	17.963	44.805	0.401	✓	1	Gusset Bearing
		Top Girt	A325N	1.250	9	25.313	66.603	0.380	✓	1	Gusset Bearing

Guy Design Data

Section No.	Elevation ft	Size	Initial Tension K	Breaking Load K	Actual T_u K	Allowable ϕT_n K	Required S.F.	Actual S.F.
T2	1612'6" (A) (2814)	2 3/8 BS	68.800	687.999	226.470	412.800	1.000	1.823 ✓
	1612'6" (B) (2813)	2 3/8 BS	68.800	687.999	226.351	412.800	1.000	1.824 ✓
	1612'6" (C) (2812)	2 3/8 BS	68.800	687.999	226.775	412.800	1.000	1.820 ✓
T10	1440' (A) (2817)	2 5/16 BS	65.400	653.999	214.566	392.400	1.000	1.829 ✓
	1440' (B) (2816)	2 5/16 BS	65.400	653.999	214.583	392.400	1.000	1.829 ✓
	1440' (C) (2815)	2 5/16 BS	65.400	653.999	214.879	392.400	1.000	1.826 ✓
T20	1230' (A)	2 1/8 BS	55.400	554.000	179.297	332.400	1.000	1.854 ✓

tnxTower TASHJIAN TOWERS CORP. 2765 S. TEMPERANCE AVE. FOWLER, CA. 93625 Phone: (559) 834-4300 FAX: (559) 834-4377	Job	LAFAYETTE	Page	89 of 134
	Project	1620' GUYED TOWER	Date	11:40:25 11/02/18
	Client	KLFY	Designed by	M.C.

Section No.	Elevation ft	Size	Initial Tension K	Breaking Load K	Actual T_u K	Allowable ϕT_n K	Required S.F.	Actual S.F.
T29	(2820) 1230' (B)	2 1/8 BS	55.400	554.000	179.293	332.400	1.000	1.854 ✓
	(2819) 1230' (C)	2 1/8 BS	55.400	554.000	179.565	332.400	1.000	1.851 ✓
	(2818) 1050' (A)	2 BS	49.000	490.001	148.169	294.000	1.000	1.984 ✓
	(2823) 1050' (B)	2 BS	49.000	490.001	148.024	294.000	1.000	1.986 ✓
	(2822) 1050' (C)	2 BS	49.000	490.001	148.389	294.000	1.000	1.981 ✓
	(2821)							
T38	870' (A) (2826)	2 1/8 BS	55.400	554.000	179.407	332.400	1.000	1.853 ✓
	870' (B) (2825)	2 1/8 BS	55.400	554.000	179.053	332.400	1.000	1.856 ✓
	870' (C) (2824)	2 1/8 BS	55.400	554.000	179.653	332.400	1.000	1.850 ✓
T48	637'6" (A) (2829)	2 BS	49.000	490.001	143.523	294.000	1.000	2.048 ✓
	637'6" (B) (2828)	2 BS	49.000	490.001	144.262	294.000	1.000	2.038 ✓
	637'6" (C) (2827)	2 BS	49.000	490.001	143.723	294.000	1.000	2.046 ✓
T59	420' (A) (2832)	1 13/16 BS	40.400	404.000	129.199	242.400	1.000	1.876 ✓
	420' (B) (2831)	1 13/16 BS	40.400	404.000	131.405	242.400	1.000	1.845 ✓
	420' (C) (2830)	1 13/16 BS	40.400	404.000	129.263	242.400	1.000	1.875 ✓
T68	195' (A) (2835)	1 1/4 BS	19.200	192.000	64.183	115.200	1.000	1.795 ✓
	195' (B) (2834)	1 1/4 BS	19.200	192.000	64.944	115.200	1.000	1.774 ✓
	195' (C) (2833)	1 1/4 BS	19.200	192.000	64.090	115.200	1.000	1.797 ✓

Compression Checks

Leg Design Data (Compression)

Section No.	Elevation ft	Size	L ft	L_u ft	Kl/r	A in^2	Mast Stability Index	P_u K	ϕP_n K	Ratio $\frac{P_u}{\phi P_n}$
T1	1620 - 1612.5	5	7'6"	7'6"	72.0	19.635	1.00	-108.810	604.822	0.180 ¹
T2	1612.5 - 1605	5	7'6"	7'6"	72.0	19.635	1.00	-164.455	604.822	0.272 ¹
T3	1605 - 1575	5	30'	7'6"	72.0	19.635	1.00	-168.152	604.822	0.278 ¹
T4	1575 - 1545	5	30'	7'6"	72.0	19.635	1.00	-203.790	604.822	0.337 ¹
T5	1545 - 1515	5	30'	7'6"	72.0	19.635	1.00	-209.688	604.822	0.347 ¹
T6	1515 - 1485	5	30'	7'6"	72.0	19.635	1.00	-204.842	604.822	0.339 ¹
T7	1485 - 1455	5	30'	7'6"	72.0	19.635	1.00	-268.464	604.822	0.444 ¹

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	Project	1620' GUYED TOWER		Date	11:40:25 11/02/18
	Client	KLFY		Designed by	M.C.

Section No.	Elevation ft	Size	L ft	L _u ft	Kl/r	A in ²	Mast Stability Index	P _u K	φP _n K	Ratio $\frac{P_u}{\phi P_n}$
T8	1455 - 1447.5	5 1/2	7'6"	7'6"	65.5 K=1.00	23.758	1.00	-292.861	781.596	0.375 ¹
T9	1447.5 - 1440	5 1/2	7'6"	7'6"	65.5 K=1.00	23.758	1.00	-319.276	781.596	0.408 ¹
T10	1440 - 1432.5	5 1/2	7'6"	7'6"	65.5 K=1.00	23.758	1.00	-322.663	781.596	0.413 ¹
T11	1432.5 - 1425	5 1/2	7'6"	7'6"	65.5 K=1.00	23.758	1.00	-323.502	781.596	0.414 ¹
T12	1425 - 1395	5 1/2	30'	7'6"	65.5 K=1.00	23.758	1.00	-351.320	781.596	0.449 ¹
T13	1395 - 1365	5 1/2	30'	7'6"	65.5 K=1.00	23.758	1.00	-398.213	781.596	0.509 ¹
T14	1365 - 1335	5 1/2	30'	7'6"	65.5 K=1.00	23.758	1.00	-421.023	781.596	0.539 ¹
T15	1335 - 1305	5 1/2	30'	7'6"	65.5 K=1.00	23.758	1.00	-422.105	781.596	0.540 ¹
T16	1305 - 1275	6	30'	7'6"	60.0 K=1.00	28.274	1.00	-407.877	977.888	0.417 ¹
T17	1275 - 1245	6	30'	7'6"	60.0 K=1.00	28.274	1.00	-468.926	977.888	0.480 ¹
T18	1245 - 1237.5	6	7'6"	7'6"	60.0 K=1.00	28.274	1.00	-488.314	977.888	0.499 ¹
T19	1237.5 - 1230	6	7'6"	7'6"	60.0 K=1.00	28.274	1.00	-511.092	977.888	0.523 ¹
T20	1230 - 1222.5	6	7'6"	7'6"	60.0 K=1.00	28.274	1.00	-498.626	977.888	0.510 ¹
T21	1222.5 - 1215	6	7'6"	7'6"	60.0 K=1.00	28.274	1.00	-499.612	977.888	0.511 ¹
T22	1215 - 1185	6	30'	7'6"	60.0 K=1.00	28.274	1.00	-531.965	977.888	0.544 ¹
T23	1185 - 1155	6	30'	7'6"	60.0 K=1.00	28.274	1.00	-501.683	977.888	0.513 ¹
T24	1155 - 1125	6	30'	7'6"	60.0 K=1.00	28.274	1.00	-498.194	977.888	0.509 ¹
T25	1125 - 1095	6	30'	7'6"	60.0 K=1.00	28.274	1.00	-509.440	977.888	0.521 ¹
T26	1095 - 1065	6 1/2	30'	7'6"	55.4 K=1.00	33.183	1.00	-546.686	1193.230	0.458 ¹
T27	1065 - 1057.5	6 1/2	7'6"	7'6"	55.4 K=1.00	33.183	1.00	-558.734	1193.230	0.468 ¹
T28	1057.5 - 1050	6 1/2	7'6"	7'6"	55.4 K=1.00	33.183	1.00	-572.065	1193.230	0.479 ¹
T29	1050 - 1042.5	6 1/2	7'6"	7'6"	55.4 K=1.00	33.183	1.00	-535.552	1193.230	0.449 ¹
T30	1042.5 - 1035	6 1/2	7'6"	7'6"	55.4 K=1.00	33.183	1.00	-536.695	1193.230	0.450 ¹
T31	1035 - 1005	6 1/2	30'	7'6"	55.4 K=1.00	33.183	1.00	-563.712	1193.230	0.472 ¹
T32	1005 - 975	6 1/2	30'	7'6"	55.4 K=1.00	33.183	1.00	-575.056	1193.230	0.482 ¹
T33	975 - 945	6 1/2	30'	7'6"	55.4 K=1.00	33.183	1.00	-578.717	1193.230	0.485 ¹
T34	945 - 915	6 1/2	30'	7'6"	55.4 K=1.00	33.183	1.00	-565.650	1193.230	0.474 ¹
T35	915 - 885	6 1/2	30'	7'6"	55.4 K=1.00	33.183	1.00	-572.694	1193.230	0.480 ¹
T36	885 - 877.5	6 1/2	7'6"	7'6"	55.4 K=1.00	33.183	1.00	-587.068	1193.230	0.492 ¹
T37	877.5 - 870	6 1/2	7'6"	7'6"	55.4 K=1.00	33.183	1.00	-602.519	1193.230	0.505 ¹

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	Project	1620' GUYED TOWER	Date	11:40:25 11/02/18
	Client	KLFY	Designed by	M.C.

Section No.	Elevation ft	Size	L ft	L _u ft	Kl/r	A in ²	Mast Stability Index	P _u K	φP _n K	Ratio P _u / φP _n
T38	870 - 862.5	6 1/2	7'6"	7'6"	55.4 K=1.00	33.183	0.98	-601.546	1170.630	0.514 ¹
T39	862.5 - 855	6 1/2	7'6"	7'6"	55.4 K=1.00	33.183	0.98	-602.664	1170.620	0.515 ¹
T40	855 - 825	6 1/2	30'	7'6"	55.4 K=1.00	33.183	0.98	-667.543	1170.450	0.570 ¹
T41	825 - 795	6 1/2	30'	7'6"	55.4 K=1.00	33.183	0.98	-677.774	1170.510	0.579 ¹
T42	795 - 765	6 1/2	30'	7'6"	55.4 K=1.00	33.183	0.98	-685.610	1170.580	0.586 ¹
T43	765 - 735	6 1/2	30'	7'6"	55.4 K=1.00	33.183	0.98	-684.176	1170.410	0.585 ¹
T44	735 - 705	6 1/2	30'	7'6"	55.4 K=1.00	33.183	0.98	-679.638	1170.010	0.581 ¹
T45	705 - 675	6 1/2	30'	7'6"	55.4 K=1.00	33.183	0.98	-708.359	1170.500	0.605 ¹
T46	675 - 645	7	30'	7'6"	51.4 K=1.00	38.485	0.96	-805.551	1373.440	0.587 ¹
T47	645 - 637.5	7	7'6"	7'6"	51.4 K=1.00	38.485	0.96	-836.265	1375.180	0.608 ¹
T48	637.5 - 630	7	7'6"	7'6"	51.4 K=1.00	38.485	0.98	-801.295	1403.000	0.571 ¹
T49	630 - 622.5	7	7'6"	7'6"	51.4 K=1.00	38.485	0.98	-802.584	1402.990	0.572 ¹
T50	622.5 - 615	7	7'6"	7'6"	51.4 K=1.00	38.485	0.98	-844.663	1402.110	0.602 ¹
T51	615 - 585	7	30'	7'6"	51.4 K=1.00	38.485	0.98	-827.826	1401.530	0.591 ¹
T52	585 - 555	7	30'	7'6"	51.4 K=1.00	38.485	0.98	-782.157	1399.730	0.559 ¹
T53	555 - 525	7	30'	7'6"	51.4 K=1.00	38.485	0.98	-773.688	1392.650	0.556 ¹
T54	525 - 495	7	30'	7'6"	51.4 K=1.00	38.485	0.98	-782.826	1392.650	0.562 ¹
T55	495 - 465	7	30'	7'6"	51.4 K=1.00	38.485	0.98	-805.829	1399.470	0.576 ¹
T56	465 - 435	7	30'	7'6"	51.4 K=1.00	38.485	0.98	-847.375	1400.510	0.605 ¹
T57	435 - 427.5	7 1/2	7'6"	7'6"	48.0 K=1.00	44.179	0.96	-865.726	1618.190	0.535 ¹
T58	427.5 - 420	7 1/2	7'6"	7'6"	48.0 K=1.00	44.179	0.96	-885.643	1619.350	0.547 ¹
T59	420 - 412.5	7 1/2	7'6"	7'6"	48.0 K=1.00	44.179	0.95	-819.334	1596.970	0.513 ¹
T60	412.5 - 405	7 1/2	7'6"	7'6"	48.0 K=1.00	44.179	0.95	-820.805	1596.930	0.514 ¹
T61	405 - 375	7 1/2	30'	7'6"	48.0 K=1.00	44.179	0.94	-861.260	1575.120	0.547 ¹
T62	375 - 345	7 1/2	30'	7'6"	48.0 K=1.00	44.179	0.95	-946.613	1600.380	0.591 ¹
T63	345 - 315	7 1/2	30'	7'6"	48.0 K=1.00	44.179	0.96	-1038.230	1606.350	0.646 ¹
T64	315 - 285	7 1/2	30'	7'6"	48.0 K=1.00	44.179	0.96	-1095.810	1609.370	0.681 ¹
T65	285 - 255	7 1/2	30'	7'6"	48.0 K=1.00	44.179	0.96	-1116.250	1609.950	0.693 ¹
T66	255 - 225	7 1/2	30'	7'6"	48.0 K=1.00	44.179	0.96	-1115.510	1609.740	0.693 ¹
T67	225 - 195	7 1/2	30'	7'6"	48.0 K=1.00	44.179	0.96	-1089.460	1607.460	0.678 ¹

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	Project	1620' GUYED TOWER	Date	11:40:25 11/02/18
	Client	KLFY	Designed by	M.C.

Section No.	Elevation ft	Size	L ft	L _u ft	Kl/r	A in ²	Mast Stability Index	P _u K	φP _n K	Ratio $\frac{P_u}{\phi P_n}$
T68	195 - 187.5	7 1/2	7'6"	7'6"	48.0 K=1.00	44.179	1.00	-1002.200	1671.860	0.599 ¹
T69	187.5 - 180	7 1/2	7'6"	7'6"	48.0 K=1.00	44.179	1.00	-1003.670	1671.860	0.600 ¹
T70	180 - 172.5	7 1/2	7'6"	7'6"	48.0 K=1.00	44.179	1.00	-1089.230	1671.880	0.652 ¹
T71	172.5 - 165	7 1/2	7'6"	7'6"	48.0 K=1.00	44.179	1.00	-1104.650	1671.970	0.661 ¹
T72	165 - 135	7 1/2	30'	7'6"	48.0 K=1.00	44.179	1.00	-1146.310	1672.180	0.686 ¹
T73	135 - 105	7 1/2	30'	7'6"	48.0 K=1.00	44.179	1.00	-1154.660	1672.180	0.691 ¹
T74	105 - 75	7 1/2	30'	7'6"	48.0 K=1.00	44.179	1.00	-1149.360	1672.110	0.687 ¹
T75	75 - 45	7 1/2	30'	7'6"	48.0 K=1.00	44.179	1.00	-1114.220	1671.790	0.666 ¹
T76	45 - 37.5	7 1/2	7'6"	7'6"	48.0 K=1.00	44.179	0.99	-1050.590	1671.230	0.629 ¹
T77	37.5 - 30	7 1/2	7'6"	7'6"	48.0 K=1.00	44.179	0.99	-1029.110	1671.040	0.616 ¹
T78	30 - 22.5	7 1/2	7'6"	7'6"	48.0 K=1.00	44.179	0.99	-1001.080	1670.840	0.599 ¹
T79	22.5 - 15	7 1/2	7'6"	7'6"	48.0 K=1.00	44.179	0.99	-965.700	1668.380	0.579 ¹
T80	15 - 0	7 1/2	16'7/8"	5'4-9/32"	34.3 K=1.00	44.179	0.93	-1035.930	1693.970	0.612

¹ P_u / φP_n controls

Leg Bending Design Data (Compression)

Section No.	Elevation ft	Size	M _{ux} kip-ft	φM _{ux} kip-ft	Ratio $\frac{M_{ux}}{\phi M_{nx}}$	M _{uy} kip-ft	φM _{uy} kip-ft	Ratio $\frac{M_{uy}}{\phi M_{ny}}$
T1	1620 - 1612.5	5	0.560	78.125	0.007	0.000	78.125	0.000
T2	1612.5 - 1605	5	0.228	78.125	0.003	0.000	78.125	0.000
T3	1605 - 1575	5	0.145	78.125	0.002	0.000	78.125	0.000
T4	1575 - 1545	5	0.066	78.125	0.001	0.000	78.125	0.000
T5	1545 - 1515	5	0.022	78.125	0.000	0.000	78.125	0.000
T6	1515 - 1485	5	0.012	78.125	0.000	0.000	78.125	0.000
T7	1485 - 1455	5	0.641	78.125	0.008	0.000	78.125	0.000
T8	1455 - 1447.5	5 1/2	0.713	103.984	0.007	0.000	103.984	0.000
T9	1447.5 - 1440	5 1/2	0.452	103.984	0.004	0.000	103.984	0.000
T10	1440 - 1432.5	5 1/2	1.226	103.984	0.012	0.000	103.984	0.000
T11	1432.5 - 1425	5 1/2	0.223	103.984	0.002	0.000	103.984	0.000
T12	1425 - 1395	5 1/2	0.135	103.984	0.001	0.000	103.984	0.000
T13	1395 - 1365	5 1/2	0.140	103.984	0.001	0.000	103.984	0.000
T14	1365 - 1335	5 1/2	0.249	103.984	0.002	0.000	103.984	0.000
T15	1335 - 1305	5 1/2	0.248	103.984	0.002	0.000	103.984	0.000
T16	1305 - 1275	6	0.280	135.000	0.002	0.000	135.000	0.000
T17	1275 - 1245	6	0.998	135.000	0.007	0.000	135.000	0.000
T18	1245 - 1237.5	6	0.967	135.000	0.007	0.000	135.000	0.000
T19	1237.5 - 1230	6	0.695	135.000	0.005	0.000	135.000	0.000
T20	1230 - 1222.5	6	2.224	135.000	0.016	0.000	135.000	0.000
T21	1222.5 - 1215	6	0.407	135.000	0.003	0.000	135.000	0.000
T22	1215 - 1185	6	1.109	135.000	0.008	0.000	135.000	0.000

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	Project	1620' GUYED TOWER	Date	11:40:25 11/02/18
	Client	KLFY	Designed by	M.C.

Section No.	Elevation ft	Size	M_{ux}	ϕM_{rx}	Ratio	M_{uy}	ϕM_{ry}	Ratio
			kip-ft	kip-ft	$\frac{M_{ux}}{\phi M_{rx}}$	kip-ft	kip-ft	$\frac{M_{uy}}{\phi M_{ry}}$
T23	1185 - 1155	6	0.421	135.000	0.003	0.000	135.000	0.000
T24	1155 - 1125	6	0.174	135.000	0.001	0.000	135.000	0.000
T25	1125 - 1095	6	0.426	135.000	0.003	0.000	135.000	0.000
T26	1095 - 1065	6 1/2	0.606	171.641	0.004	0.000	171.641	0.000
T27	1065 - 1057.5	6 1/2	1.107	171.641	0.006	0.000	171.641	0.000
T28	1057.5 - 1050	6 1/2	0.884	171.641	0.005	0.000	171.641	0.000
T29	1050 - 1042.5	6 1/2	2.283	171.641	0.013	0.000	171.641	0.000
T30	1042.5 - 1035	6 1/2	0.904	171.641	0.005	0.000	171.641	0.000
T31	1035 - 1005	6 1/2	1.081	171.641	0.006	0.000	171.641	0.000
T32	1005 - 975	6 1/2	0.218	171.641	0.001	0.000	171.641	0.000
T33	975 - 945	6 1/2	0.444	171.641	0.003	0.000	171.641	0.000
T34	945 - 915	6 1/2	0.261	171.641	0.002	0.000	171.641	0.000
T35	915 - 885	6 1/2	0.546	171.641	0.003	0.000	171.641	0.000
T36	885 - 877.5	6 1/2	1.124	171.641	0.007	0.000	171.641	0.000
T37	877.5 - 870	6 1/2	2.149	171.641	0.013	0.000	171.641	0.000
T38	870 - 862.5	6 1/2	2.593	171.641	0.015	0.000	171.641	0.000
T39	862.5 - 855	6 1/2	1.559	171.641	0.009	0.000	171.641	0.000
T40	855 - 825	6 1/2	0.290	171.641	0.002	0.000	171.641	0.000
T41	825 - 795	6 1/2	0.652	171.641	0.004	0.000	171.641	0.000
T42	795 - 765	6 1/2	0.785	171.641	0.005	0.000	171.641	0.000
T43	765 - 735	6 1/2	0.737	171.641	0.004	0.000	171.641	0.000
T44	735 - 705	6 1/2	0.295	171.641	0.002	0.000	171.641	0.000
T45	705 - 675	6 1/2	0.647	171.641	0.004	0.000	171.641	0.000
T46	675 - 645	7	1.592	214.375	0.007	0.000	214.375	0.000
T47	645 - 637.5	7	2.249	214.375	0.010	0.000	214.375	0.000
T48	637.5 - 630	7	3.645	214.375	0.017	0.000	214.375	0.000
T49	630 - 622.5	7	1.739	214.375	0.008	0.000	214.375	0.000
T50	622.5 - 615	7	1.886	214.375	0.009	0.000	214.375	0.000
T51	615 - 585	7	0.458	214.375	0.002	0.000	214.375	0.000
T52	585 - 555	7	0.341	214.375	0.002	0.000	214.375	0.000
T53	555 - 525	7	0.011	214.375	0.000	0.000	214.375	0.000
T54	525 - 495	7	0.048	214.375	0.000	0.000	214.375	0.000
T55	495 - 465	7	1.132	214.375	0.005	0.000	214.375	0.000
T56	465 - 435	7	0.529	214.375	0.002	0.000	214.375	0.000
T57	435 - 427.5	7 1/2	1.414	263.672	0.005	0.000	263.672	0.000
T58	427.5 - 420	7 1/2	3.131	263.672	0.012	0.000	263.672	0.000
T59	420 - 412.5	7 1/2	3.241	263.672	0.012	0.000	263.672	0.000
T60	412.5 - 405	7 1/2	1.910	263.672	0.007	0.000	263.672	0.000
T61	405 - 375	7 1/2	0.032	263.672	0.000	0.000	263.672	0.000
T62	375 - 345	7 1/2	1.580	263.672	0.006	0.000	263.672	0.000
T63	345 - 315	7 1/2	1.033	263.672	0.004	0.000	263.672	0.000
T64	315 - 285	7 1/2	1.354	263.672	0.005	0.000	263.672	0.000
T65	285 - 255	7 1/2	1.372	263.672	0.005	0.000	263.672	0.000
T66	255 - 225	7 1/2	1.348	263.672	0.005	0.000	263.672	0.000
T67	225 - 195	7 1/2	1.284	263.672	0.005	0.000	263.672	0.000
T68	195 - 187.5	7 1/2	7.084	263.672	0.027	0.000	263.672	0.000
T69	187.5 - 180	7 1/2	3.197	263.672	0.012	0.000	263.672	0.000
T70	180 - 172.5	7 1/2	3.349	263.672	0.013	0.000	263.672	0.000
T71	172.5 - 165	7 1/2	1.033	263.672	0.004	0.000	263.672	0.000
T72	165 - 135	7 1/2	1.325	263.672	0.005	0.000	263.672	0.000
T73	135 - 105	7 1/2	1.336	263.672	0.005	0.000	263.672	0.000
T74	105 - 75	7 1/2	1.282	263.672	0.005	0.000	263.672	0.000
T75	75 - 45	7 1/2	1.215	263.672	0.005	0.000	263.672	0.000
T76	45 - 37.5	7 1/2	0.380	263.672	0.001	0.000	263.672	0.000
T77	37.5 - 30	7 1/2	0.675	263.672	0.003	0.000	263.672	0.000
T78	30 - 22.5	7 1/2	1.961	263.672	0.007	0.000	263.672	0.000
T79	22.5 - 15	7 1/2	4.682	263.672	0.018	0.000	263.672	0.000
T80	15 - 0	7 1/2	35.531	263.672	0.135	0.000	263.672	0.000

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	Client KLFY	Designed by M.C.

Leg Interaction Design Data (Compression)

Section No.	Elevation ft	Size	Ratio	Ratio	Ratio	Comb. Stress Ratio	Allow. Stress Ratio	Criteria
			$\frac{P_u}{\phi P_n}$	$\frac{M_{ux}}{\phi M_{nx}}$	$\frac{M_{uy}}{\phi M_{ny}}$			
T1	1620 - 1612.5	5	0.180	0.007	0.000	0.180 ¹	1.000	4.8.1 ✓
T2	1612.5 - 1605	5	0.272	0.003	0.000	0.272 ¹	1.000	4.8.1 ✓
T3	1605 - 1575	5	0.278	0.002	0.000	0.278 ¹	1.000	4.8.1 ✓
T4	1575 - 1545	5	0.337	0.001	0.000	0.337 ¹	1.000	4.8.1 ✓
T5	1545 - 1515	5	0.347	0.000	0.000	0.347 ¹	1.000	4.8.1 ✓
T6	1515 - 1485	5	0.339	0.000	0.000	0.339 ¹	1.000	4.8.1 ✓
T7	1485 - 1455	5	0.444	0.008	0.000	0.444 ¹	1.000	4.8.1 ✓
T8	1455 - 1447.5	5 1/2	0.375	0.007	0.000	0.375 ¹	1.000	4.8.1 ✓
T9	1447.5 - 1440	5 1/2	0.408	0.004	0.000	0.408 ¹	1.000	4.8.1 ✓
T10	1440 - 1432.5	5 1/2	0.413	0.012	0.000	0.413 ¹	1.000	4.8.1 ✓
T11	1432.5 - 1425	5 1/2	0.414	0.002	0.000	0.414 ¹	1.000	4.8.1 ✓
T12	1425 - 1395	5 1/2	0.449	0.001	0.000	0.449 ¹	1.000	4.8.1 ✓
T13	1395 - 1365	5 1/2	0.509	0.001	0.000	0.509 ¹	1.000	4.8.1 ✓
T14	1365 - 1335	5 1/2	0.539	0.002	0.000	0.539 ¹	1.000	4.8.1 ✓
T15	1335 - 1305	5 1/2	0.540	0.002	0.000	0.540 ¹	1.000	4.8.1 ✓
T16	1305 - 1275	6	0.417	0.002	0.000	0.417 ¹	1.000	4.8.1 ✓
T17	1275 - 1245	6	0.480	0.007	0.000	0.480 ¹	1.000	4.8.1 ✓
T18	1245 - 1237.5	6	0.499	0.007	0.000	0.499 ¹	1.000	4.8.1 ✓
T19	1237.5 - 1230	6	0.523	0.005	0.000	0.523 ¹	1.000	4.8.1 ✓
T20	1230 - 1222.5	6	0.510	0.016	0.000	0.510 ¹	1.000	4.8.1 ✓
T21	1222.5 - 1215	6	0.511	0.003	0.000	0.511 ¹	1.000	4.8.1 ✓
T22	1215 - 1185	6	0.544	0.008	0.000	0.544 ¹	1.000	4.8.1 ✓
T23	1185 - 1155	6	0.513	0.003	0.000	0.513 ¹	1.000	4.8.1 ✓
T24	1155 - 1125	6	0.509	0.001	0.000	0.509 ¹	1.000	4.8.1 ✓

<p>tnxTower</p> <p>TASHJIAN TOWERS CORP. 2765 S. TEMPERANCE AVE. FOWLER, CA. 93625 Phone: (559) 834-4300 FAX: (559) 834-4377</p>	Job LAFAYETTE	Page 95 of 134
	Project 1620' GUYED TOWER	Date 11:40:25 11/02/18
	Client KLFY	Designed by M.C.

Section No.	Elevation ft	Size	Ratio	Ratio	Ratio	Comb. Stress Ratio	Allow. Stress Ratio	Criteria
			$\frac{P_u}{P_n}$	$\frac{M_{ux}}{M_{nx}}$	$\frac{M_{uy}}{M_{ny}}$			
T25	1125 - 1095	6	0.521	0.003	0.000	0.521 ¹	1.000	4.8.1 ✓
T26	1095 - 1065	6 1/2	0.458	0.004	0.000	0.458 ¹	1.000	4.8.1 ✓
T27	1065 - 1057.5	6 1/2	0.468	0.006	0.000	0.468 ¹	1.000	4.8.1 ✓
T28	1057.5 - 1050	6 1/2	0.479	0.005	0.000	0.479 ¹	1.000	4.8.1 ✓
T29	1050 - 1042.5	6 1/2	0.449	0.013	0.000	0.449 ¹	1.000	4.8.1 ✓
T30	1042.5 - 1035	6 1/2	0.450	0.005	0.000	0.450 ¹	1.000	4.8.1 ✓
T31	1035 - 1005	6 1/2	0.472	0.006	0.000	0.472 ¹	1.000	4.8.1 ✓
T32	1005 - 975	6 1/2	0.482	0.001	0.000	0.482 ¹	1.000	4.8.1 ✓
T33	975 - 945	6 1/2	0.485	0.003	0.000	0.485 ¹	1.000	4.8.1 ✓
T34	945 - 915	6 1/2	0.474	0.002	0.000	0.474 ¹	1.000	4.8.1 ✓
T35	915 - 885	6 1/2	0.480	0.003	0.000	0.480 ¹	1.000	4.8.1 ✓
T36	885 - 877.5	6 1/2	0.492	0.007	0.000	0.492 ¹	1.000	4.8.1 ✓
T37	877.5 - 870	6 1/2	0.505	0.013	0.000	0.505 ¹	1.000	4.8.1 ✓
T38	870 - 862.5	6 1/2	0.514	0.015	0.000	0.514 ¹	1.000	4.8.1 ✓
T39	862.5 - 855	6 1/2	0.515	0.009	0.000	0.515 ¹	1.000	4.8.1 ✓
T40	855 - 825	6 1/2	0.570	0.002	0.000	0.570 ¹	1.000	4.8.1 ✓
T41	825 - 795	6 1/2	0.579	0.004	0.000	0.579 ¹	1.000	4.8.1 ✓
T42	795 - 765	6 1/2	0.586	0.005	0.000	0.586 ¹	1.000	4.8.1 ✓
T43	765 - 735	6 1/2	0.585	0.004	0.000	0.585 ¹	1.000	4.8.1 ✓
T44	735 - 705	6 1/2	0.581	0.002	0.000	0.581 ¹	1.000	4.8.1 ✓
T45	705 - 675	6 1/2	0.605	0.004	0.000	0.605 ¹	1.000	4.8.1 ✓
T46	675 - 645	7	0.587	0.007	0.000	0.587 ¹	1.000	4.8.1 ✓
T47	645 - 637.5	7	0.608	0.010	0.000	0.608 ¹	1.000	4.8.1 ✓
T48	637.5 - 630	7	0.571	0.017	0.000	0.571 ¹	1.000	4.8.1 ✓
T49	630 - 622.5	7	0.572	0.008	0.000	0.572 ¹	1.000	4.8.1 ✓
T50	622.5 - 615	7	0.602	0.009	0.000	0.602 ¹	1.000	4.8.1 ✓

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Section No.	Elevation ft	Size	Ratio	Ratio	Ratio	Comb. Stress Ratio	Allow. Stress Ratio	Criteria
			$\frac{P_u}{P_n}$	$\frac{M_{ux}}{M_{nx}}$	$\frac{M_{uy}}{M_{ny}}$			
T51	615 - 585	7	0.591	0.002	0.000	0.591 ¹	1.000	4.8.1 ✓
T52	585 - 555	7	0.559	0.002	0.000	0.559 ¹	1.000	4.8.1 ✓
T53	555 - 525	7	0.556	0.000	0.000	0.556 ¹	1.000	4.8.1 ✓
T54	525 - 495	7	0.562	0.000	0.000	0.562 ¹	1.000	4.8.1 ✓
T55	495 - 465	7	0.576	0.005	0.000	0.576 ¹	1.000	4.8.1 ✓
T56	465 - 435	7	0.605	0.002	0.000	0.605 ¹	1.000	4.8.1 ✓
T57	435 - 427.5	7 1/2	0.535	0.005	0.000	0.535 ¹	1.000	4.8.1 ✓
T58	427.5 - 420	7 1/2	0.547	0.012	0.000	0.547 ¹	1.000	4.8.1 ✓
T59	420 - 412.5	7 1/2	0.513	0.012	0.000	0.513 ¹	1.000	4.8.1 ✓
T60	412.5 - 405	7 1/2	0.514	0.007	0.000	0.514 ¹	1.000	4.8.1 ✓
T61	405 - 375	7 1/2	0.547	0.000	0.000	0.547 ¹	1.000	4.8.1 ✓
T62	375 - 345	7 1/2	0.591	0.006	0.000	0.591 ¹	1.000	4.8.1 ✓
T63	345 - 315	7 1/2	0.646	0.004	0.000	0.646 ¹	1.000	4.8.1 ✓
T64	315 - 285	7 1/2	0.681	0.005	0.000	0.681 ¹	1.000	4.8.1 ✓
T65	285 - 255	7 1/2	0.693	0.005	0.000	0.693 ¹	1.000	4.8.1 ✓
T66	255 - 225	7 1/2	0.693	0.005	0.000	0.693 ¹	1.000	4.8.1 ✓
T67	225 - 195	7 1/2	0.678	0.005	0.000	0.678 ¹	1.000	4.8.1 ✓
T68	195 - 187.5	7 1/2	0.599	0.027	0.000	0.599 ¹	1.000	4.8.1 ✓
T69	187.5 - 180	7 1/2	0.600	0.012	0.000	0.600 ¹	1.000	4.8.1 ✓
T70	180 - 172.5	7 1/2	0.652	0.013	0.000	0.652 ¹	1.000	4.8.1 ✓
T71	172.5 - 165	7 1/2	0.661	0.004	0.000	0.661 ¹	1.000	4.8.1 ✓
T72	165 - 135	7 1/2	0.686	0.005	0.000	0.686 ¹	1.000	4.8.1 ✓
T73	135 - 105	7 1/2	0.691	0.005	0.000	0.691 ¹	1.000	4.8.1 ✓
T74	105 - 75	7 1/2	0.687	0.005	0.000	0.687 ¹	1.000	4.8.1 ✓
T75	75 - 45	7 1/2	0.666	0.005	0.000	0.666 ¹	1.000	4.8.1 ✓
T76	45 - 37.5	7 1/2	0.629	0.001	0.000	0.629 ¹	1.000	4.8.1 ✓

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	Project 1620' GUYED TOWER	Date 11:40:25 11/02/18
	Client KLFY	Designed by M.C.

Section No.	Elevation ft	Size	Ratio $\frac{P_u}{\phi P_n}$	Ratio $\frac{M_{ux}}{\phi M_{nx}}$	Ratio $\frac{M_{uy}}{\phi M_{ny}}$	Comb. Stress Ratio	Allow. Stress Ratio	Criteria
T77	37.5 - 30	7 1/2	0.616	0.003	0.000	0.616 ¹	1.000	4.8.1 ✓
T78	30 - 22.5	7 1/2	0.599	0.007	0.000	0.599 ¹	1.000	4.8.1 ✓
T79	22.5 - 15	7 1/2	0.579	0.018	0.000	0.579 ¹	1.000	4.8.1 ✓
T80	15 - 0	7 1/2	0.612	0.135	0.000	0.663	1.000	4.8.1 ✓

¹ $P_u / \phi P_n$ controls

Diagonal Design Data (Compression)

Section No.	Elevation ft	Size	L ft	L_u ft	Kl/r	A in ²	P_u K	ϕP_n K	Ratio $\frac{P_u}{\phi P_n}$
T1	1620 - 1612.5	2L4x4x3/8x3/8	9'5/32"	8'2-5/32'	79.8 K=1.00	5.720	-11.115	164.682	0.067 ¹
T2	1612.5 - 1605	2L2 1/2x2 1/2x3/8x3/8	9'5/32"	8'2-5/32'	129.4 K=1.00	3.470	-15.735	59.010	0.267 ¹
T3	1605 - 1575	2L 'a' > 46.157 in - 19 2L2 1/2x2 1/2x1/4x3/8	9'5/32"	8'2-5/32'	129.6 K=1.00	2.380	-12.308	40.007	0.308 ¹
T4	1575 - 1545	2L 'a' > 45.922 in - 70 2L2 1/2x2 1/2x3/16x3/8	9'5/32"	8'2-5/32'	129.4 K=1.00	1.800	-7.760	29.959	0.259 ¹
T5	1545 - 1515	2L 'a' > 45.959 in - 121 2L2 1/2x2 1/2x3/16x3/8	9'5/32"	8'2-5/32'	129.4 K=1.00	1.800	-6.930	29.959	0.231 ¹
T6	1515 - 1485	2L 'a' > 45.959 in - 141 2L2 1/2x2 1/2x3/16x3/8	9'5/32"	8'2-5/32'	129.4 K=1.00	1.800	-11.197	29.959	0.374 ¹
T7	1485 - 1455	2L 'a' > 45.959 in - 192 2L2 1/2x2 1/2x1/4x3/8	9'5/32"	8'2-5/32'	129.6 K=1.00	2.380	-15.352	40.007	0.384 ¹
T8	1455 - 1447.5	2L 'a' > 45.922 in - 243 2L2 1/2x2 1/2x3/8x3/8	9'5/32"	8'1-23/32"	128.8 K=1.00	3.470	-16.587	59.553	0.279 ¹
T9	1447.5 - 1440	2L 'a' > 46.022 in - 292 2L2 1/2x2 1/2x3/8x3/8	9'5/32"	8'1-23/32"	128.8 K=1.00	3.470	-17.405	59.553	0.292 ¹
T10	1440 - 1432.5	2L 'a' > 46.022 in - 307 2L2 1/2x2 1/2x3/8x3/8	9'5/32"	8'1-23/32"	128.8 K=1.00	3.470	-34.878	59.553	0.586 ¹
T11	1432.5 - 1425	2L 'a' > 46.022 in - 321 2L2 1/2x2 1/2x3/8x3/8	9'5/32"	8'1-23/32"	128.8 K=1.00	3.470	-35.077	59.553	0.589 ¹
T12	1425 - 1395	2L 'a' > 46.022 in - 334 2L2 1/2x2 1/2x3/8x3/8	9'5/32"	8'1-23/32"	128.8 K=1.00	3.470	-15.515	59.553	0.261 ¹
		2L 'a' > 46.022 in - 382							✓

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Section No.	Elevation ft	Size	L ft	L _u ft	Kl/r	A in ²	P _u K	φP _n K	Ratio $\frac{P_u}{\phi P_n}$
T13	1395 - 1365	2L2 1/2x2 1/2x1/4x3/8	9'5/32"	8'1-23/32"	129.0 K=1.00	2.380	-10.341	40.371	0.256 ¹ ✓
T14	1365 - 1335	2L 'a' > 45.789 in - 433 2L2 1/2x2 1/2x3/16x3/8	9'5/32"	8'1-23/32"	128.8 K=1.00	1.800	-5.637	30.228	0.186 ¹ ✓
T15	1335 - 1305	2L 'a' > 45.826 in - 452 2L2 1/2x2 1/2x3/16x3/8	9'5/32"	8'1-23/32"	128.8 K=1.00	1.800	-9.804	30.228	0.324 ¹ ✓
T16	1305 - 1275	2L 'a' > 45.826 in - 503 2L2 1/2x2 1/2x1/4x3/8	9'5/32"	8'1-1/4"	128.4 K=1.00	2.380	-14.370	40.741	0.353 ¹ ✓
T17	1275 - 1245	2L 'a' > 45.656 in - 555 2L2 1/2x2 1/2x1/4x3/8	9'5/32"	8'1-1/4"	128.4 K=1.00	2.380	-18.782	40.741	0.461 ¹ ✓
T18	1245 - 1237.5	2L 'a' > 45.656 in - 606 2L2 1/2x2 1/2x3/8x3/8	9'5/32"	8'1-1/4"	128.2 K=1.00	3.470	-20.264	60.103	0.337 ¹ ✓
T19	1237.5 - 1230	2L 'a' > 45.888 in - 655 2L2 1/2x2 1/2x3/8x3/8	9'5/32"	8'1-1/4"	128.2 K=1.00	3.470	-20.792	60.103	0.346 ¹ ✓
T20	1230 - 1222.5	2L 'a' > 45.888 in - 670 2L2 1/2x2 1/2x3/8x3/8	9'5/32"	8'1-1/4"	128.2 K=1.00	3.470	-40.364	60.103	0.672 ¹ ✓
T21	1222.5 - 1215	2L 'a' > 45.888 in - 684 2L2 1/2x2 1/2x3/8x3/8	9'5/32"	8'1-1/4"	128.2 K=1.00	3.470	-40.460	60.103	0.673 ¹ ✓
T22	1215 - 1185	2L 'a' > 45.888 in - 697 2L2 1/2x2 1/2x3/8x3/8	9'5/32"	8'1-1/4"	128.2 K=1.00	3.470	-14.541	60.103	0.242 ¹ ✓
T23	1185 - 1155	2L 'a' > 45.888 in - 745 2L2 1/2x2 1/2x1/4x3/8	9'5/32"	8'1-1/4"	128.4 K=1.00	2.380	-10.336	40.741	0.254 ¹ ✓
T24	1155 - 1125	2L 'a' > 45.656 in - 796 2L2 1/2x2 1/2x3/8x3/8	9'5/32"	8'1-1/4"	128.2 K=1.00	3.470	-6.134	60.103	0.102 ¹ ✓
T25	1125 - 1095	2L 'a' > 45.888 in - 847 2L2 1/2x2 1/2x3/8x3/8	9'5/32"	8'1-1/4"	128.2 K=1.00	3.470	-10.614	60.103	0.177 ¹ ✓
T26	1095 - 1065	2L 'a' > 45.888 in - 867 2L2 1/2x2 1/2x3/8x3/8	9'5/32"	8'13/16"	127.6 K=1.00	3.470	-15.375	60.660	0.253 ¹ ✓
T27	1065 - 1057.5	2L 'a' > 45.753 in - 918 2L2 1/2x2 1/2x3/8x3/8	9'5/32"	8'13/16"	127.6 K=1.00	3.470	-16.753	60.660	0.276 ¹ ✓
T28	1057.5 - 1050	2L 'a' > 45.753 in - 967 2L2 1/2x2 1/2x3/8x3/8	9'5/32"	8'13/16"	127.6 K=1.00	3.470	-17.158	60.660	0.283 ¹ ✓
T29	1050 - 1042.5	2L 'a' > 45.753 in - 982 2L2 1/2x2 1/2x3/8x3/8	9'5/32"	8'13/16"	127.6 K=1.00	3.470	-45.581	60.660	0.751 ¹ ✓
T30	1042.5 - 1035	2L 'a' > 45.753 in - 996 2L2 1/2x2 1/2x3/8x3/8	9'5/32"	8'13/16"	127.6 K=1.00	3.470	-45.855	60.660	0.756 ¹ ✓
T31	1035 - 1005	2L 'a' > 45.753 in - 1009 2L2 1/2x2 1/2x3/8x3/8	9'5/32"	8'13/16"	127.6	3.470	-18.612	60.660	0.307 ¹ ✓

tnxTower TASHJIAN TOWERS CORP. 2765 S. TEMPERANCE AVE. FOWLER, CA. 93625 Phone: (559) 834-4300 FAX: (559) 834-4377	Job LAFAYETTE	Page 99 of 134
	Project 1620' GUYED TOWER	Date 11:40:25 11/02/18
	Client KLFY	Designed by M.C.

Section No.	Elevation ft	Size	L ft	L _u ft	Kl/r	A in ²	P _u K	φP _n K	Ratio $\frac{P_u}{\phi P_n}$
					K=1.00				✓
T32	1005 - 975	2L 'a' > 45.753 in - 1057 2L2 1/2x2 1/2x3/8x3/8	9'5/32"	8'13/16"	127.6 K=1.00	3.470	-14.247	60.660	0.235 ¹ ✓
T33	975 - 945	2L 'a' > 45.753 in - 1108 2L2 1/2x2 1/2x3/16x3/8	9'5/32"	8'13/16"	127.6 K=1.00	1.800	-9.414	30.776	0.306 ¹ ✓
T34	945 - 915	2L 'a' > 45.562 in - 1159 2L2 1/2x2 1/2x3/16x3/8	9'5/32"	8'13/16"	127.6 K=1.00	1.800	-12.994	30.776	0.422 ¹ ✓
T35	915 - 885	2L 'a' > 45.562 in - 1182 2L2 1/2x2 1/2x3/8x3/8	9'5/32"	8'13/16"	127.6 K=1.00	3.470	-17.282	60.660	0.285 ¹ ✓
T36	885 - 877.5	2L 'a' > 45.753 in - 1233 2L2 1/2x2 1/2x3/8x3/8	9'5/32"	8'13/16"	127.6 K=1.00	3.470	-18.765	60.660	0.309 ¹ ✓
T37	877.5 - 870	2L 'a' > 45.753 in - 1276 2L2 1/2x2 1/2x3/8x3/8	9'5/32"	8'13/16"	127.6 K=1.00	3.470	-19.094	60.660	0.315 ¹ ✓
T38	870 - 862.5	2L 'a' > 45.753 in - 1291 2L2 1/2x2 1/2x3/8x3/8	9'5/32"	8'13/16"	127.6 K=1.00	3.470	-47.013	60.660	0.775 ¹ ✓
T39	862.5 - 855	2L 'a' > 45.753 in - 1308 2L2 1/2x2 1/2x3/8x3/8	9'5/32"	8'13/16"	127.6 K=1.00	3.470	-47.725	60.660	0.787 ¹ ✓
T40	855 - 825	2L 'a' > 45.753 in - 1321 2L2 1/2x2 1/2x3/8x3/8	9'5/32"	8'13/16"	127.6 K=1.00	3.470	-15.669	60.660	0.258 ¹ ✓
T41	825 - 795	2L 'a' > 45.753 in - 1372 2L2 1/2x2 1/2x3/8x3/8	9'5/32"	8'13/16"	127.6 K=1.00	3.470	-10.260	60.660	0.169 ¹ ✓
T42	795 - 765	2L 'a' > 45.753 in - 1423 2L2 1/2x2 1/2x3/16x3/8	9'5/32"	8'13/16"	127.6 K=1.00	1.800	-4.944	30.776	0.161 ¹ ✓
T43	765 - 735	2L 'a' > 45.562 in - 1442 2L2 1/2x2 1/2x3/16x3/8	9'5/32"	8'13/16"	127.6 K=1.00	1.800	-10.742	30.776	0.349 ¹ ✓
T44	735 - 705	2L 'a' > 45.562 in - 1488 2L2 1/2x2 1/2x3/16x3/8	9'5/32"	8'13/16"	127.6 K=1.00	1.800	-16.129	30.776	0.524 ¹ ✓
T45	705 - 675	2L 'a' > 45.562 in - 1539 2L2 1/2x2 1/2x3/8x3/8	9'5/32"	8'13/16"	127.6 K=1.00	3.470	-21.416	60.660	0.353 ¹ ✓
T46	675 - 645	2L 'a' > 45.753 in - 1590 2L2 1/2x2 1/2x3/8x3/8	9'5/32"	8'3/8"	127.0 K=1.00	3.470	-26.292	61.226	0.429 ¹ ✓
T47	645 - 637.5	2L 'a' > 45.619 in - 1641 2L2 1/2x2 1/2x3/8x3/8	9'5/32"	8'3/8"	127.0 K=1.00	3.470	-25.978	61.226	0.424 ¹ ✓
T48	637.5 - 630	2L 'a' > 45.619 in - 1691 2L2 1/2x2 1/2x3/8x3/8	9'5/32"	8'3/8"	127.0 K=1.00	3.470	-50.389	61.226	0.823 ¹ ✓
T49	630 - 622.5	2L 'a' > 45.619 in - 1710 2L2 1/2x2 1/2x3/8x3/8	9'5/32"	8'3/8"	127.0 K=1.00	3.470	-51.385	61.226	0.839 ¹ ✓

tnxTower TASHJIAN TOWERS CORP. 2765 S. TEMPERANCE AVE. FOWLER, CA. 93625 Phone: (559) 834-4300 FAX: (559) 834-4377	Job LAFAYETTE	Page 100 of 134
	Project 1620' GUYED TOWER	Date 11:40:25 11/02/18
	Client KLFY	Designed by M.C.

Section No.	Elevation ft	Size	L ft	L _u ft	Kl/r	A in ²	P _u K	φP _n K	Ratio $\frac{P_u}{\phi P_n}$
T50	622.5 - 615	2L 'a' > 45.619 in - 1722 2L2 1/2x2 1/2x3/8x3/8	9'5/32"	8'3/8"	127.0 K=1.00	3.470	-16.962	61.226	0.277 ¹ ✓
T51	615 - 585	2L 'a' > 45.619 in - 1735 2L2 1/2x2 1/2x3/8x3/8	9'5/32"	8'3/8"	127.0 K=1.00	3.470	-16.076	61.226	0.263 ¹ ✓
T52	585 - 555	2L 'a' > 45.619 in - 1786 2L2 1/2x2 1/2x1/4x3/8	9'5/32"	8'3/8"	127.2 K=1.00	2.380	-11.662	41.495	0.281 ¹ ✓
T53	555 - 525	2L 'a' > 45.391 in - 1837 2L2 1/2x2 1/2x3/16x3/8	9'5/32"	8'3/8"	127.0 K=1.00	1.800	-7.244	31.056	0.233 ¹ ✓
T54	525 - 495	2L 'a' > 45.429 in - 1888 2L2 1/2x2 1/2x3/16x3/8	9'5/32"	8'3/8"	127.0 K=1.00	1.800	-6.824	31.056	0.220 ¹ ✓
T55	495 - 465	2L 'a' > 45.429 in - 1902 2L2 1/2x2 1/2x1/4x3/8	9'5/32"	8'3/8"	127.2 K=1.00	2.380	-11.519	41.495	0.278 ¹ ✓
T56	465 - 435	2L 'a' > 45.391 in - 1953 2L2 1/2x2 1/2x3/8x3/8	9'5/32"	8'3/8"	127.0 K=1.00	3.470	-17.564	61.226	0.287 ¹ ✓
T57	435 - 427.5	2L 'a' > 45.619 in - 2003 2L2 1/2x2 1/2x3/8x3/8	9'5/32"	7'11-29/ 32"	126.4 K=1.00	3.470	-19.012	61.799	0.308 ¹ ✓
T58	427.5 - 420	2L 'a' > 45.484 in - 2053 2L2 1/2x2 1/2x3/8x3/8	9'5/32"	7'11-29/ 32"	126.4 K=1.00	3.470	-17.820	61.799	0.288 ¹ ✓
T59	420 - 412.5	2L 'a' > 45.484 in - 2068 2L2 1/2x2 1/2x3/8x3/8	9'5/32"	8'5-13/3 2"	123.6 K=0.92	3.470	-64.016	64.912	0.986 ¹ ✓
T60	412.5 - 405	2L2 1/2x2 1/2x3/8x3/8	9'5/32"	8'5-13/3 2"	123.6 K=0.92	3.470	-66.099	64.912	1.018 ¹ ✗
T61	405 - 375	4.8.1 (1.02 CR) - 2100 2L2 1/2x2 1/2x3/8x3/8	9'5/32"	7'11-29/ 32"	126.4 K=1.00	3.470	-30.652	61.799	0.496 ¹ ✓
T62	375 - 345	2L 'a' > 45.484 in - 2148 2L2 1/2x2 1/2x3/8x3/8	9'5/32"	7'11-29/ 32"	126.4 K=1.00	3.470	-25.286	61.799	0.409 ¹ ✓
T63	345 - 315	2L 'a' > 45.484 in - 2202 2L2 1/2x2 1/2x3/16x3/8	9'5/32"	7'11-29/ 32"	126.5 K=1.00	1.800	-19.561	31.339	0.624 ¹ ✓
T64	315 - 285	2L 'a' > 45.297 in - 2253 2L2 1/2x2 1/2x3/16x3/8	9'5/32"	7'11-29/ 32"	126.5 K=1.00	1.800	-14.274	31.339	0.455 ¹ ✓
T65	285 - 255	2L 'a' > 45.297 in - 2304 2L2 1/2x2 1/2x3/16x3/8	9'5/32"	7'11-29/ 32"	126.5 K=1.00	1.800	-7.795	31.339	0.249 ¹ ✓
T66	255 - 225	2L 'a' > 45.297 in - 2355 2L2 1/2x2 1/2x3/16x3/8	9'5/32"	7'11-29/ 32"	126.5 K=1.00	1.800	-11.712	31.339	0.374 ¹ ✓
T67	225 - 195	2L 'a' > 45.297 in - 2366 2L2 1/2x2 1/2x3/16x3/8	9'5/32"	7'11-29/ 32"	126.5 K=1.00	1.800	-17.171	31.339	0.548 ¹ ✓
T68	195 - 187.5	2L 'a' > 45.297 in - 2430 2L2 1/2x2 1/2x3/8x3/8	9'5/32"	7'11-29/ 32"	126.4	3.470	-52.016	61.799	0.842 ¹

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	Project 1620' GUYED TOWER	Date 11:40:25 11/02/18
	Client KLFY	Designed by M.C.

Section No.	Elevation ft	Size	L ft	L _u ft	Kl/r	A in ²	P _u K	φP _n K	Ratio $\frac{P_u}{\phi P_n}$
				32"	K=1.00				✓
T69	187.5 - 180	2L 'a' > 45.484 in - 2474 2L2 1/2x2 1/2x3/8x3/8	9'5/32"	7'11-29/32"	126.4 K=1.00	3.470	-53.538	61.799	0.866 ¹ ✓
T70	180 - 172.5	2L 'a' > 45.484 in - 2487 2L2 1/2x2 1/2x3/8x3/8	9'5/32"	7'11-29/32"	126.4 K=1.00	3.470	-12.254	61.799	0.198 ¹ ✓
T71	172.5 - 165	2L 'a' > 45.484 in - 2498 2L2 1/2x2 1/2x3/8x3/8	9'5/32"	7'11-29/32"	126.4 K=1.00	3.470	-11.527	61.799	0.187 ¹ ✓
T72	165 - 135	2L 'a' > 45.484 in - 2513 2L2 1/2x2 1/2x3/16x3/8	9'5/32"	7'11-29/32"	126.5 K=1.00	1.800	-9.582	31.339	0.306 ¹ ✓
T73	135 - 105	2L 'a' > 45.297 in - 2565 2L2 1/2x2 1/2x3/16x3/8	9'5/32"	7'11-29/32"	126.5 K=1.00	1.800	-10.147	31.339	0.324 ¹ ✓
T74	105 - 75	2L 'a' > 45.297 in - 2576 2L2 1/2x2 1/2x3/16x3/8	9'5/32"	7'11-29/32"	126.5 K=1.00	1.800	-15.340	31.339	0.489 ¹ ✓
T75	75 - 45	2L 'a' > 45.297 in - 2627 2L2 1/2x2 1/2x3/8x3/8	9'5/32"	7'11-29/32"	126.4 K=1.00	3.470	-20.601	61.799	0.333 ¹ ✓
T76	45 - 37.5	2L 'a' > 45.484 in - 2678 2L2 1/2x2 1/2x3/8x3/8	9'5/32"	7'11-29/32"	126.4 K=1.00	3.470	-21.781	61.799	0.352 ¹ ✓
T77	37.5 - 30	2L 'a' > 45.484 in - 2728 2L2 1/2x2 1/2x3/8x3/8	9'5/32"	7'10-13/32"	124.4 K=1.00	3.470	-23.851	63.739	0.374 ¹ ✓
T78	30 - 22.5	2L 'a' > 45.037 in - 2743 2L2 1/2x2 1/2x3/8x3/8	9'5/32"	7'11-29/32"	126.4 K=1.00	3.470	-28.593	61.799	0.463 ¹ ✓
T79	22.5 - 15	2L 'a' > 45.484 in - 2759 2L2 1/2x2 1/2x3/8x3/8	9'5/32"	7'11-29/32"	126.4 K=1.00	3.470	-38.163	61.799	0.618 ¹ ✓
T80	15 - 0	2L 'a' > 45.484 in - 2775 L4x4x1/2	7'1-5/8"	4'11/32"	76.4 K=1.24	3.750	-47.136	110.250	0.428 ¹ ✓

¹ P_u / φP_n controls

Horizontal Design Data (Compression)

Section No.	Elevation ft	Size	L ft	L _u ft	Kl/r	A in ²	P _u K	φP _n K	Ratio $\frac{P_u}{\phi P_n}$
T3	1605 - 1575	2L2 1/2x2 1/2x1/4x3/8	10'	4'6-3/4"	72.3 K=1.00	2.380	-6.065	70.859	0.086 ¹ ✓
T4	1575 - 1545	2L 'a' > 26.218 in - 58 2L2 1/2x2 1/2x3/16x3/8	10'	4'6-3/4"	72.2 K=1.00	1.800	-4.000	52.921	0.076 ¹ ✓
		2L 'a' > 26.126 in - 85							

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	Project 1620' GUYED TOWER	Date 11:40:25 11/02/18
	Client KLFY	Designed by M.C.

Section No.	Elevation ft	Size	L ft	L _u ft	Kl/r	A in ²	P _u K	φP _n K	Ratio $\frac{P_u}{\phi P_n}$
T5	1545 - 1515	2L2 1/2x2 1/2x3/16x3/8	10'	4'6-3/4"	72.2 K=1.00	1.800	-4.116	52.921	0.078 ¹ ✓
T6	1515 - 1485	2L 'a' > 26.126 in - 136 2L2 1/2x2 1/2x3/16x3/8	10'	4'6-3/4"	72.2 K=1.00	1.800	-6.247	52.921	0.118 ¹ ✓
T7	1485 - 1455	2L 'a' > 26.126 in - 190 2L2 1/2x2 1/2x1/4x3/8	10'	4'6-3/4"	72.3 K=1.00	2.380	-8.501	70.859	0.120 ¹ ✓
T12	1425 - 1395	2L 'a' > 26.218 in - 241 2L2 1/2x2 1/2x3/8x3/8	10'	4'6-1/2"	72.4 K=1.00	3.470	-7.605	104.257	0.073 ¹ ✓
T13	1395 - 1365	2L 'a' > 26.436 in - 370 2L2 1/2x2 1/2x1/4x3/8	10'	4'6-1/2"	72.0 K=1.00	2.380	-7.315	70.985	0.103 ¹ ✓
T14	1365 - 1335	2L 'a' > 26.098 in - 397 2L2 1/2x2 1/2x3/16x3/8	10'	4'6-1/2"	71.9 K=1.00	1.800	-7.734	53.012	0.146 ¹ ✓
T15	1335 - 1305	2L 'a' > 26.007 in - 448 2L2 1/2x2 1/2x3/16x3/8	10'	4'6-1/2"	71.9 K=1.00	1.800	-7.754	53.012	0.146 ¹ ✓
T16	1305 - 1275	2L 'a' > 26.007 in - 499 2L2 1/2x2 1/2x1/4x3/8	10'	4'6-1/4"	71.6 K=1.00	2.380	-7.804	71.111	0.110 ¹ ✓
T17	1275 - 1245	2L 'a' > 25.979 in - 553 2L2 1/2x2 1/2x1/4x3/8	10'	4'6-1/4"	71.6 K=1.00	2.380	-10.185	71.111	0.143 ¹ ✓
T22	1215 - 1185	2L 'a' > 25.979 in - 604 2L2 1/2x2 1/2x3/8x3/8	10'	4'6-1/4"	72.0 K=1.00	3.470	-9.214	104.443	0.088 ¹ ✓
T23	1185 - 1155	2L 'a' > 26.314 in - 709 2L2 1/2x2 1/2x1/4x3/8	10'	4'6-1/4"	71.6 K=1.00	2.380	-8.689	71.111	0.122 ¹ ✓
T24	1155 - 1125	2L 'a' > 25.979 in - 760 2L2 1/2x2 1/2x3/16x3/8	10'	4'6-1/4"	71.5 K=1.00	1.800	-8.629	53.102	0.162 ¹ ✓
T25	1125 - 1095	2L 'a' > 25.887 in - 811 2L2 1/2x2 1/2x3/8x3/8	10'	4'6-1/4"	72.0 K=1.00	3.470	-8.824	104.443	0.084 ¹ ✓
T26	1095 - 1065	2L 'a' > 26.314 in - 862 2L2 1/2x2 1/2x1/4x3/8	10'	4'6"	71.3 K=1.00	2.380	-9.469	71.236	0.133 ¹ ✓
T31	1035 - 1005	2L 'a' > 25.859 in - 913 2L2 1/2x2 1/2x3/8x3/8	10'	4'6"	71.7 K=1.00	3.470	-9.764	104.627	0.093 ¹ ✓
T32	1005 - 975	2L 'a' > 26.193 in - 1021 2L2 1/2x2 1/2x1/4x3/8	10'	4'6"	71.3 K=1.00	2.380	-9.960	71.236	0.140 ¹ ✓
T33	975 - 945	2L 'a' > 25.859 in - 1075 2L2 1/2x2 1/2x3/16x3/8	10'	4'6"	71.2 K=1.00	1.800	-10.024	53.192	0.188 ¹ ✓
T34	945 - 915	2L 'a' > 25.768 in - 1126 2L2 1/2x2 1/2x3/16x3/8	10'	4'6"	71.2 K=1.00	1.800	-9.797	53.192	0.184 ¹ ✓
T35	915 - 885	2L 'a' > 25.768 in - 1174 2L2 1/2x2 1/2x1/4x3/8	10'	4'6"	71.3	2.380	-9.919	71.236	0.139 ¹ ✓

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	Project 1620' GUYED TOWER	Date 11:40:25 11/02/18
	Client KLFY	Designed by M.C.

Section No.	Elevation ft	Size	L ft	L _u ft	Kl/r	A in ²	P _u K	φP _n K	Ratio $\frac{P_u}{\phi P_n}$
					K=1.00				✓
T40	855 - 825	2L 'a' > 25.859 in - 1225 2L2 1/2x2 1/2x3/8x3/8	10'	4'6"	71.7 K=1.00	3.470	-11.562	104.627	0.111 ¹ ✓
T41	825 - 795	2L 'a' > 26.193 in - 1336 2L2 1/2x2 1/2x1/4x3/8	10'	4'6"	71.3 K=1.00	2.380	-11.739	71.236	0.165 ¹ ✓
T42	795 - 765	2L 'a' > 25.859 in - 1387 2L2 1/2x2 1/2x3/16x3/8	10'	4'6"	71.2 K=1.00	1.800	-11.875	53.192	0.223 ¹ ✓
T43	765 - 735	2L 'a' > 25.768 in - 1438 2L2 1/2x2 1/2x3/16x3/8	10'	4'6"	71.2 K=1.00	1.800	-11.850	53.192	0.223 ¹ ✓
T44	735 - 705	2L 'a' > 25.768 in - 1489 2L2 1/2x2 1/2x3/16x3/8	10'	4'6"	71.2 K=1.00	1.800	-11.772	53.192	0.221 ¹ ✓
T45	705 - 675	2L 'a' > 25.768 in - 1540 2L2 1/2x2 1/2x1/4x3/8	10'	4'6"	71.3 K=1.00	2.380	-12.269	71.236	0.172 ¹ ✓
T46	675 - 645	2L 'a' > 25.859 in - 1591 2L2 1/2x2 1/2x3/8x3/8	10'	4'5-3/4"	71.4 K=1.00	3.470	-14.662	104.810	0.140 ¹ ✓
T51	615 - 585	2L 'a' > 26.072 in - 1639 2L2 1/2x2 1/2x3/8x3/8	10'	4'5-3/4"	71.4 K=1.00	3.470	-14.338	104.810	0.137 ¹ ✓
T52	585 - 555	2L 'a' > 26.072 in - 1747 2L2 1/2x2 1/2x1/4x3/8	10'	4'5-3/4"	71.0 K=1.00	2.380	-13.547	71.361	0.190 ¹ ✓
T53	555 - 525	2L 'a' > 25.739 in - 1801 2L2 1/2x2 1/2x3/16x3/8	10'	4'5-3/4"	70.9 K=1.00	1.800	-13.401	53.282	0.252 ¹ ✓
T54	525 - 495	2L 'a' > 25.649 in - 1852 2L2 1/2x2 1/2x3/16x3/8	10'	4'5-3/4"	70.9 K=1.00	1.800	-13.559	53.282	0.254 ¹ ✓
T55	495 - 465	2L 'a' > 25.649 in - 1903 2L2 1/2x2 1/2x1/4x3/8	10'	4'5-3/4"	71.0 K=1.00	2.380	-13.957	71.361	0.196 ¹ ✓
T56	465 - 435	2L 'a' > 25.739 in - 1951 2L2 1/2x2 1/2x3/8x3/8	10'	4'5-3/4"	71.4 K=1.00	3.470	-14.677	104.810	0.140 ¹ ✓
T61	405 - 375	2L 'a' > 26.072 in - 2005 2L2 1/2x2 1/2x3/8x3/8	10'	4'5-1/2"	71.0 K=1.00	3.470	-15.484	104.993	0.147 ¹ ✓
T62	375 - 345	2L 'a' > 25.951 in - 2140 2L2 1/2x2 1/2x3/8x3/8	10'	4'5-1/2"	71.0 K=1.00	3.470	-16.396	104.993	0.156 ¹ ✓
T63	345 - 315	2L 'a' > 25.951 in - 2161 2L2 1/2x2 1/2x1/4x3/8	10'	4'5-1/2"	70.6 K=1.00	2.380	-17.983	71.485	0.252 ¹ ✓
T64	315 - 285	2L 'a' > 25.619 in - 2212 2L2 1/2x2 1/2x3/16x3/8	10'	4'5-1/2"	70.5 K=1.00	1.800	-18.980	53.371	0.356 ¹ ✓
T65	285 - 255	2L 'a' > 25.529 in - 2263 2L2 1/2x2 1/2x3/16x3/8	10'	4'5-1/2"	70.5 K=1.00	1.800	-19.334	53.371	0.362 ¹ ✓

tnxTower TASHJIAN TOWERS CORP. 2765 S. TEMPERANCE AVE. FOWLER, CA. 93625 Phone: (559) 834-4300 FAX: (559) 834-4377	Job LAFAYETTE	Page 104 of 134
	Project 1620' GUYED TOWER	Date 11:40:25 11/02/18
	Client KLFY	Designed by M.C.

Section No.	Elevation ft	Size	L ft	L _u ft	Kl/r	A in ²	P _u K	φP _n K	Ratio $\frac{P_u}{\phi P_n}$
T66	255 - 225	2L 'a' > 25.529 in - 2314 2L2 1/2x2 1/2x3/16x3/8	10'	4'5-1/2"	70.5 K=1.00	1.800	-19.321	53.371	0.362 ¹ ✓
T67	225 - 195	2L 'a' > 25.529 in - 2365 2L2 1/2x2 1/2x1/4x3/8	10'	4'5-1/2"	70.6 K=1.00	2.380	-18.870	71.485	0.264 ¹ ✓
T72	165 - 135	2L 'a' > 25.619 in - 2416 2L2 1/2x2 1/2x1/4x3/8	10'	4'5-1/2"	70.6 K=1.00	2.380	-19.855	71.485	0.278 ¹ ✓
T73	135 - 105	2L 'a' > 25.619 in - 2524 2L2 1/2x2 1/2x3/16x3/8	10'	4'5-1/2"	70.5 K=1.00	1.800	-19.999	53.371	0.375 ¹ ✓
T74	105 - 75	2L 'a' > 25.529 in - 2575 2L2 1/2x2 1/2x3/16x3/8	10'	4'5-1/2"	70.5 K=1.00	1.800	-19.907	53.371	0.373 ¹ ✓
T75	75 - 45	2L 'a' > 25.529 in - 2626 2L2 1/2x2 1/2x1/4x3/8 2L 'a' > 25.619 in - 2677	10'	4'5-1/2"	70.6 K=1.00	2.380	-19.299	71.485	0.270 ¹ ✓

¹ P_u / φP_n controls

Top Girt Design Data (Compression)

Section No.	Elevation ft	Size	L ft	L _u ft	Kl/r	A in ²	P _u K	φP _n K	Ratio $\frac{P_u}{\phi P_n}$
T1	1620 - 1612.5	2C10x30x0.375	10'	7'2-1/4"	80.6 K=1.00	17.640	-6.963	406.152	0.017 ¹ ✓
T3	1605 - 1575	2L2 1/2x2 1/2x1/4x3/8	10'	4'6-3/4"	72.3 K=1.00	2.380	-5.525	70.859	0.078 ¹ ✓
T4	1575 - 1545	2L 'a' > 26.218 in - 31 2L2 1/2x2 1/2x3/16x3/8	10'	4'6-3/4"	72.2 K=1.00	1.800	-4.150	52.921	0.078 ¹ ✓
T5	1545 - 1515	2L 'a' > 26.126 in - 82 2L2 1/2x2 1/2x3/16x3/8	10'	4'6-3/4"	72.2 K=1.00	1.800	-2.051	52.921	0.039 ¹ ✓
T6	1515 - 1485	2L 'a' > 26.126 in - 134 2L2 1/2x2 1/2x3/16x3/8	10'	4'6-3/4"	72.2 K=1.00	1.800	-4.505	52.921	0.085 ¹ ✓
T7	1485 - 1455	2L 'a' > 26.126 in - 185 2L2 1/2x2 1/2x1/4x3/8	10'	4'6-3/4"	72.3 K=1.00	2.380	-6.915	70.859	0.098 ¹ ✓
T8	1455 - 1447.5	2L 'a' > 26.218 in - 236 2L2 1/2x2 1/2x3/8x3/8	10'	4'6-3/4"	72.7 K=1.00	3.470	-9.250	104.072	0.089 ¹ ✓
T9	1447.5 - 1440	2L 'a' > 26.557 in - 287 2L2 1/2x2 1/2x3/8x3/8	10'	4'6-1/2"	72.4 K=1.00	3.470	-9.513	104.257	0.091 ¹ ✓
T13	1395 - 1365	2L 'a' > 26.436 in - 302 2L2 1/2x2 1/2x1/4x3/8	10'	4'6-1/2"	72.0 K=1.00	2.380	-5.523	70.985	0.078 ¹ ✓

tnxTower TASHJIAN TOWERS CORP. 2765 S. TEMPERANCE AVE. FOWLER, CA. 93625 Phone: (559) 834-4300 FAX: (559) 834-4377	Job LAFAYETTE	Page 105 of 134
	Project 1620' GUYED TOWER	Date 11:40:25 11/02/18
	Client KLFY	Designed by M.C.

Section No.	Elevation ft	Size	L ft	L _u ft	Kl/r	A in ²	P _u K	φP _n K	Ratio $\frac{P_u}{\phi P_n}$
T14	1365 - 1335	2L 'a' > 26.098 in - 394 2L2 1/2x2 1/2x3/16x3/8	10'	4'6-1/2"	71.9 K=1.00	1.800	-2.639	53.012	0.050 ¹ ✓
T15	1335 - 1305	2L 'a' > 26.007 in - 445 2L2 1/2x2 1/2x3/16x3/8	10'	4'6-1/2"	71.9 K=1.00	1.800	-3.775	53.012	0.071 ¹ ✓
T16	1305 - 1275	2L 'a' > 26.007 in - 497 2L2 1/2x2 1/2x1/4x3/8	10'	4'6-1/2"	72.0 K=1.00	2.380	-6.143	70.985	0.087 ¹ ✓
T17	1275 - 1245	2L 'a' > 26.098 in - 548 2L2 1/2x2 1/2x1/4x3/8	10'	4'6-1/4"	71.6 K=1.00	2.380	-8.417	71.111	0.118 ¹ ✓
T18	1245 - 1237.5	2L 'a' > 25.979 in - 599 2L2 1/2x2 1/2x3/8x3/8	10'	4'6-1/4"	72.0 K=1.00	3.470	-11.105	104.443	0.106 ¹ ✓
T19	1237.5 - 1230	2L 'a' > 26.314 in - 650 2L2 1/2x2 1/2x3/8x3/8	10'	4'6-1/4"	72.0 K=1.00	3.470	-11.100	104.443	0.106 ¹ ✓
T23	1185 - 1155	2L 'a' > 26.314 in - 665 2L2 1/2x2 1/2x1/4x3/8	10'	4'6-1/4"	71.6 K=1.00	2.380	-5.747	71.111	0.081 ¹ ✓
T24	1155 - 1125	2L 'a' > 25.979 in - 757 2L2 1/2x2 1/2x3/16x3/8	10'	4'6-1/4"	71.5 K=1.00	1.800	-3.393	53.102	0.064 ¹ ✓
T25	1125 - 1095	2L 'a' > 25.887 in - 808 2L2 1/2x2 1/2x3/8x3/8	10'	4'6-1/4"	72.0 K=1.00	3.470	-3.562	104.443	0.034 ¹ ✓
T26	1095 - 1065	2L 'a' > 26.314 in - 860 2L2 1/2x2 1/2x1/4x3/8	10'	4'6-1/4"	71.6 K=1.00	2.380	-6.285	71.111	0.088 ¹ ✓
T27	1065 - 1057.5	2L 'a' > 25.979 in - 911 2L2 1/2x2 1/2x3/8x3/8	10'	4'6"	71.7 K=1.00	3.470	-9.154	104.627	0.087 ¹ ✓
T28	1057.5 - 1050	2L 'a' > 26.193 in - 962 2L2 1/2x2 1/2x3/8x3/8	10'	4'6"	71.7 K=1.00	3.470	-8.976	104.627	0.086 ¹ ✓
T32	1005 - 975	2L 'a' > 26.193 in - 977 2L2 1/2x2 1/2x1/4x3/8	10'	4'6"	71.3 K=1.00	2.380	-7.879	71.236	0.111 ¹ ✓
T33	975 - 945	2L 'a' > 25.859 in - 1069 2L2 1/2x2 1/2x3/16x3/8	10'	4'6"	71.2 K=1.00	1.800	-5.300	53.192	0.100 ¹ ✓
T34	945 - 915	2L 'a' > 25.768 in - 1120 2L2 1/2x2 1/2x3/16x3/8	10'	4'6"	71.2 K=1.00	1.800	-5.152	53.192	0.097 ¹ ✓
T35	915 - 885	2L 'a' > 25.768 in - 1173 2L2 1/2x2 1/2x1/4x3/8	10'	4'6"	71.3 K=1.00	2.380	-7.635	71.236	0.107 ¹ ✓
T36	885 - 877.5	2L 'a' > 25.859 in - 1224 2L2 1/2x2 1/2x3/8x3/8	10'	4'6"	71.7 K=1.00	3.470	-10.324	104.627	0.099 ¹ ✓
T37	877.5 - 870	2L 'a' > 26.193 in - 1273 2L2 1/2x2 1/2x3/8x3/8	10'	4'6"	71.7 K=1.00	3.470	-10.044	104.627	0.096 ¹ ✓

tnxTower TASHJIAN TOWERS CORP. 2765 S. TEMPERANCE AVE. FOWLER, CA. 93625 Phone: (559) 834-4300 FAX: (559) 834-4377	Job LAFAYETTE	Page 106 of 134
	Project 1620' GUYED TOWER	Date 11:40:25 11/02/18
	Client KLFY	Designed by M.C.

Section No.	Elevation ft	Size	L ft	L _u ft	Kl/r	A in ²	P _u K	φP _n K	Ratio $\frac{P_u}{\phi P_n}$
T41	825 - 795	2L 'a' > 26.193 in - 1288 2L2 1/2x2 1/2x1/4x3/8	10'	4'6"	71.3 K=1.00	2.380	-5.467	71.236	0.077 ¹ ✓
T42	795 - 765	2L 'a' > 25.859 in - 1382 2L2 1/2x2 1/2x3/16x3/8	10'	4'6"	71.2 K=1.00	1.800	-2.307	53.192	0.043 ¹ ✓
T43	765 - 735	2L 'a' > 25.768 in - 1433 2L2 1/2x2 1/2x3/16x3/8	10'	4'6"	71.2 K=1.00	1.800	-3.662	53.192	0.069 ¹ ✓
T44	735 - 705	2L 'a' > 25.768 in - 1485 2L2 1/2x2 1/2x3/16x3/8	10'	4'6"	71.2 K=1.00	1.800	-6.936	53.192	0.130 ¹ ✓
T45	705 - 675	2L 'a' > 25.768 in - 1534 2L2 1/2x2 1/2x1/4x3/8	10'	4'6"	71.3 K=1.00	2.380	-10.101	71.236	0.142 ¹ ✓
T46	675 - 645	2L 'a' > 25.859 in - 1585 2L2 1/2x2 1/2x3/8x3/8	10'	4'6"	71.7 K=1.00	3.470	-12.556	104.627	0.120 ¹ ✓
T47	645 - 637.5	2L 'a' > 26.193 in - 1636 2L2 1/2x2 1/2x3/8x3/8	10'	4'5-3/4"	71.4 K=1.00	3.470	-13.812	104.810	0.132 ¹ ✓
T51	615 - 585	2L 'a' > 26.072 in - 1687 2L2 1/2x2 1/2x3/8x3/8	10'	4'5-3/4"	71.4 K=1.00	3.470	-8.327	104.810	0.079 ¹ ✓
T52	585 - 555	2L 'a' > 26.072 in - 1745 2L2 1/2x2 1/2x1/4x3/8	10'	4'5-3/4"	71.0 K=1.00	2.380	-6.263	71.361	0.088 ¹ ✓
T53	555 - 525	2L 'a' > 25.739 in - 1796 2L2 1/2x2 1/2x3/16x3/8	10'	4'5-3/4"	70.9 K=1.00	1.800	-3.860	53.282	0.072 ¹ ✓
T54	525 - 495	2L 'a' > 25.649 in - 1847 2L2 1/2x2 1/2x3/16x3/8	10'	4'5-3/4"	70.9 K=1.00	1.800	-1.900	53.282	0.036 ¹ ✓
T55	495 - 465	2L 'a' > 25.649 in - 1897 2L2 1/2x2 1/2x1/4x3/8	10'	4'5-3/4"	71.0 K=1.00	2.380	-4.668	71.361	0.065 ¹ ✓
T56	465 - 435	2L 'a' > 25.739 in - 1948 2L2 1/2x2 1/2x3/8x3/8	10'	4'5-3/4"	71.4 K=1.00	3.470	-7.592	104.810	0.072 ¹ ✓
T57	435 - 427.5	2L 'a' > 26.072 in - 1999 2L2 1/2x2 1/2x3/8x3/8	10'	4'5-3/4"	71.4 K=1.00	3.470	-10.670	104.810	0.102 ¹ ✓
T58	427.5 - 420	2L 'a' > 26.072 in - 2050 2L2 1/2x2 1/2x3/8x3/8	10'	4'5-1/2"	71.0 K=1.00	3.470	-9.054	104.993	0.086 ¹ ✓
T60	412.5 - 405	2L 'a' > 25.951 in - 2065 2L2 1/2x2 1/2x3/8x3/8	10'	4'8-1/4"	74.7 K=1.00	3.470	-0.241	102.938	0.002 ¹ ✓
T62	375 - 345	2L 'a' > 27.285 in - 2083 2L2 1/2x2 1/2x3/8x3/8	10'	4'5-1/2"	71.0 K=1.00	3.470	-13.768	104.993	0.131 ¹ ✓
T63	345 - 315	2L 'a' > 25.951 in - 2160 2L2 1/2x2 1/2x1/4x3/8	10'	4'5-1/2"	70.6 K=1.00	2.380	-10.624	71.485	0.149 ¹ ✓
		2L 'a' > 25.619 in - 2211							✓

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	Project 1620' GUYED TOWER	Date 11:40:25 11/02/18
	Client KLFY	Designed by M.C.

Section No.	Elevation ft	Size	L ft	L _u ft	Kl/r	A in ²	P _u K	φP _n K	Ratio $\frac{P_u}{\phi P_n}$
T64	315 - 285	2L2 1/2x2 1/2x3/16x3/8	10'	4'5-1/2"	70.5 K=1.00	1.800	-7.838	53.371	0.147 ¹ ✓
T65	285 - 255	2L 'a' > 25.529 in - 2262 2L2 1/2x2 1/2x3/16x3/8	10'	4'5-1/2"	70.5 K=1.00	1.800	-4.301	53.371	0.081 ¹ ✓
T66	255 - 225	2L 'a' > 25.529 in - 2313 2L2 1/2x2 1/2x3/16x3/8	10'	4'5-1/2"	70.5 K=1.00	1.800	-3.980	53.371	0.075 ¹ ✓
T67	225 - 195	2L 'a' > 25.529 in - 2362 2L2 1/2x2 1/2x1/4x3/8	10'	4'5-1/2"	70.6 K=1.00	2.380	-7.707	71.485	0.108 ¹ ✓
T69	187.5 - 180	2L 'a' > 25.619 in - 2413 2L2 1/2x2 1/2x3/8x3/8	10'	4'5-1/2"	71.0 K=1.00	3.470	-0.613	104.993	0.006 ¹ ✓
T71	172.5 - 165	2L 'a' > 25.951 in - 2467 2L2 1/2x2 1/2x3/8x3/8	10'	4'5-1/2"	71.0 K=1.00	3.470	-5.767	104.993	0.055 ¹ ✓
T72	165 - 135	2L 'a' > 25.951 in - 2508 2L2 1/2x2 1/2x1/4x3/8	10'	4'5-1/2"	70.6 K=1.00	2.380	-5.158	71.485	0.072 ¹ ✓
T73	135 - 105	2L 'a' > 25.619 in - 2523 2L2 1/2x2 1/2x3/16x3/8	10'	4'5-1/2"	70.5 K=1.00	1.800	-3.629	53.371	0.068 ¹ ✓
T74	105 - 75	2L 'a' > 25.529 in - 2573 2L2 1/2x2 1/2x3/16x3/8	10'	4'3-1/4"	67.6 K=1.00	1.800	-6.698	54.144	0.124 ¹ ✓
T75	75 - 45	2L 'a' > 24.456 in - 2623 2L2 1/2x2 1/2x1/4x3/8	10'	3'10-3/4"	61.7 K=1.00	2.380	-9.906	74.593	0.133 ¹ ✓
T76	45 - 37.5	2L 'a' > 22.387 in - 2674 2L2 1/2x2 1/2x3/8x3/8	10'	4'5-1/2"	71.0 K=1.00	3.470	-12.017	104.993	0.114 ¹ ✓
T77	37.5 - 30	2L 'a' > 25.951 in - 2725 2C6x13x0.375	10'	4'8-1/4"	64.3 K=1.00	7.660	-12.634	199.694	0.063 ¹ ✓
T78	30 - 22.5	2C10x30x0.375	10'	4'8-1/4"	52.5 K=1.00	17.640	-12.442	494.246	0.025 ¹ ✓

¹ P_u / φP_n controls

Redundant Vertical Design Data (Compression)

Section No.	Elevation ft	Size	L ft	L _u ft	Kl/r	A in ²	P _u K	φP _n K	Ratio $\frac{P_u}{\phi P_n}$
T79	22.5 - 15	2L2 1/2x2 1/2x3/8x3/8	7'6"	7'6"	119.5 K=1.00	3.470	-0.408	68.806	0.006 ¹ ✓
		2L 'a' > 43.655 in - 2774							

¹ P_u / φP_n controls

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Inner Bracing Design Data (Compression)

Section No.	Elevation ft	Size	L ft	L _u ft	Kl/r	A in ²	P _u K	φP _n K	Ratio $\frac{P_u}{\phi P_n}$
T2	1612.5 - 1605	2L2x2 1/2x1/4x3/8	5'	5'	101.4 K=1.00	2.130	-0.025	51.912	0.000 ¹
T3	1605 - 1575	2L2x2 1/2x1/4x3/8	5'	5'	101.4 K=1.00	2.130	-0.096	51.912	0.002 ¹
T4	1575 - 1545	2L2x2 1/2x1/4x3/8	5'	5'	101.4 K=1.00	2.130	-0.072	51.912	0.001 ¹
T5	1545 - 1515	2L2x2 1/2x1/4x3/8	5'	5'	101.4 K=1.00	2.130	-0.036	51.912	0.001 ¹
T6	1515 - 1485	2L2x2 1/2x1/4x3/8	5'	5'	101.4 K=1.00	2.130	-0.078	51.912	0.002 ¹
T7	1485 - 1455	2L2x2 1/2x1/4x3/8	5'	5'	101.4 K=1.00	2.130	-0.120	51.912	0.002 ¹
T8	1455 - 1447.5	2L2x2 1/2x1/4x3/8	5'	5'	101.4 K=1.00	2.130	-0.160	51.912	0.003 ¹
T9	1447.5 - 1440	2L2x2 1/2x1/4x3/8	5'	5'	101.4 K=1.00	2.130	-0.165	51.912	0.003 ¹
T10	1440 - 1432.5	2L2x2 1/2x1/4x3/8	5'	5'	101.4 K=1.00	2.130	-0.015	51.912	0.000 ¹
T12	1425 - 1395	2L2x2 1/2x1/4x3/8	5'	5'	101.4 K=1.00	2.130	-0.023	51.912	0.000 ¹
T13	1395 - 1365	2L2x2 1/2x1/4x3/8	5'	5'	101.4 K=1.00	2.130	-0.096	51.912	0.002 ¹
T14	1365 - 1335	2L2x2 1/2x1/4x3/8	5'	5'	101.4 K=1.00	2.130	-0.046	51.912	0.001 ¹
T15	1335 - 1305	2L2x2 1/2x1/4x3/8	5'	5'	101.4 K=1.00	2.130	-0.065	51.912	0.001 ¹
T16	1305 - 1275	2L2x2 1/2x1/4x3/8	5'	5'	101.4 K=1.00	2.130	-0.106	51.912	0.002 ¹
T17	1275 - 1245	2L2x2 1/2x1/4x3/8	5'	5'	101.4 K=1.00	2.130	-0.146	51.912	0.003 ¹
T18	1245 - 1237.5	2L2x2 1/2x1/4x3/8	5'	5'	101.4 K=1.00	2.130	-0.192	51.912	0.004 ¹
T19	1237.5 - 1230	2L2x2 1/2x1/4x3/8	5'	5'	101.4 K=1.00	2.130	-0.192	51.912	0.004 ¹
T20	1230 - 1222.5	2L2x2 1/2x1/4x3/8	5'	5'	101.4 K=1.00	2.130	-0.027	51.912	0.001 ¹
T22	1215 - 1185	2L2x2 1/2x1/4x3/8	5'	5'	101.4 K=1.00	2.130	-0.031	51.912	0.001 ¹
T23	1185 - 1155	2L2x2 1/2x1/4x3/8	5'	5'	101.4 K=1.00	2.130	-0.100	51.912	0.002 ¹
T24	1155 - 1125	2L2x2 1/2x1/4x3/8	5'	5'	101.4 K=1.00	2.130	-0.059	51.912	0.001 ¹
T25	1125 - 1095	2L2x2 1/2x1/4x3/8	5'	5'	101.4 K=1.00	2.130	-0.062	51.912	0.001 ¹
T26	1095 - 1065	2L2x2 1/2x1/4x3/8	5'	5'	101.4 K=1.00	2.130	-0.109	51.912	0.002 ¹
T27	1065 - 1057.5	2L2x2 1/2x1/4x3/8	5'	5'	101.4 K=1.00	2.130	-0.159	51.912	0.003 ¹

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Section No.	Elevation ft	Size	L ft	L _u ft	Kl/r	A in ²	P _u K	φP _n K	Ratio $\frac{P_u}{\phi P_n}$
T28	1057.5 - 1050	2L2x2 1/2x1/4x3/8	5'	5'	101.4 K=1.00	2.130	-0.155	51.912	0.003 ¹
T29	1050 - 1042.5	2L2x2 1/2x1/4x3/8	5'	5'	101.4 K=1.00	2.130	-0.022	51.912	0.000 ¹
T31	1035 - 1005	2L2x2 1/2x1/4x3/8	5'	5'	101.4 K=1.00	2.130	-0.033	51.912	0.001 ¹
T32	1005 - 975	2L2x2 1/2x1/4x3/8	5'	5'	101.4 K=1.00	2.130	-0.136	51.912	0.003 ¹
T33	975 - 945	2L2x2 1/2x1/4x3/8	5'	5'	101.4 K=1.00	2.130	-0.092	51.912	0.002 ¹
T34	945 - 915	2L2x2 1/2x1/4x3/8	5'	5'	101.4 K=1.00	2.130	-0.089	51.912	0.002 ¹
T35	915 - 885	2L2x2 1/2x1/4x3/8	5'	5'	101.4 K=1.00	2.130	-0.132	51.912	0.003 ¹
T36	885 - 877.5	2L2x2 1/2x1/4x3/8	5'	5'	101.4 K=1.00	2.130	-0.179	51.912	0.003 ¹
T37	877.5 - 870	2L2x2 1/2x1/4x3/8	5'	5'	101.4 K=1.00	2.130	-0.174	51.912	0.003 ¹
T38	870 - 862.5	2L2x2 1/2x1/4x3/8	5'	5'	101.4 K=1.00	2.130	-0.019	51.912	0.000 ¹
T40	855 - 825	2L2x2 1/2x1/4x3/8	5'	5'	101.4 K=1.00	2.130	-0.023	51.912	0.000 ¹
T41	825 - 795	2L2x2 1/2x1/4x3/8	5'	5'	101.4 K=1.00	2.130	-0.095	51.912	0.002 ¹
T42	795 - 765	2L2x2 1/2x1/4x3/8	5'	5'	101.4 K=1.00	2.130	-0.040	51.912	0.001 ¹
T43	765 - 735	2L2x2 1/2x1/4x3/8	5'	5'	101.4 K=1.00	2.130	-0.063	51.912	0.001 ¹
T44	735 - 705	2L2x2 1/2x1/4x3/8	5'	5'	101.4 K=1.00	2.130	-0.120	51.912	0.002 ¹
T45	705 - 675	2L2x2 1/2x1/4x3/8	5'	5'	101.4 K=1.00	2.130	-0.175	51.912	0.003 ¹
T46	675 - 645	2L2x2 1/2x1/4x3/8	5'	5'	101.4 K=1.00	2.130	-0.217	51.912	0.004 ¹
T47	645 - 637.5	2L2x2 1/2x1/4x3/8	5'	5'	101.4 K=1.00	2.130	-0.239	51.912	0.005 ¹
T48	637.5 - 630	2L2x2 1/2x1/4x3/8	5'	5'	101.4 K=1.00	2.130	-0.035	51.912	0.001 ¹
T50	622.5 - 615	2L2x2 1/2x1/4x3/8	5'	5'	101.4 K=1.00	2.130	-0.023	51.912	0.000 ¹
T51	615 - 585	2L2x2 1/2x1/4x3/8	5'	5'	101.4 K=1.00	2.130	-0.144	51.912	0.003 ¹
T52	585 - 555	2L2x2 1/2x1/4x3/8	5'	5'	101.4 K=1.00	2.130	-0.108	51.912	0.002 ¹
T53	555 - 525	2L2x2 1/2x1/4x3/8	5'	5'	101.4 K=1.00	2.130	-0.067	51.912	0.001 ¹
T54	525 - 495	2L2x2 1/2x1/4x3/8	5'	5'	101.4 K=1.00	2.130	-0.033	51.912	0.001 ¹
T55	495 - 465	2L2x2 1/2x1/4x3/8	5'	5'	101.4 K=1.00	2.130	-0.081	51.912	0.002 ¹
T56	465 - 435	2L2x2 1/2x1/4x3/8	5'	5'	101.4 K=1.00	2.130	-0.132	51.912	0.003 ¹

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Section No.	Elevation ft	Size	L ft	L _u ft	Kl/r	A in ²	P _u K	φP _n K	Ratio $\frac{P_u}{\phi P_n}$
T57	435 - 427.5	2L2x2 1/2x1/4x3/8	5'	5'	101.4 K=1.00	2.130	-0.185	51.912	0.004 ¹
T58	427.5 - 420	2L2x2 1/2x1/4x3/8	5'	5'	101.4 K=1.00	2.130	-0.157	51.912	0.003 ¹
T59	420 - 412.5	2L2x2 1/2x1/4x3/8	5'	5'	101.4 K=1.00	2.130	-0.026	51.912	0.000 ¹
T61	405 - 375	2L2x2 1/2x1/4x3/8	5'	5'	101.4 K=1.00	2.130	-0.046	51.912	0.001 ¹
T62	375 - 345	2L2x2 1/2x1/4x3/8	5'	5'	101.4 K=1.00	2.130	-0.238	51.912	0.005 ¹
T63	345 - 315	2L2x2 1/2x1/4x3/8	5'	5'	101.4 K=1.00	2.130	-0.184	51.912	0.004 ¹
T64	315 - 285	2L2x2 1/2x1/4x3/8	5'	5'	101.4 K=1.00	2.130	-0.136	51.912	0.003 ¹
T65	285 - 255	2L2x2 1/2x1/4x3/8	5'	5'	101.4 K=1.00	2.130	-0.074	51.912	0.001 ¹
T66	255 - 225	2L2x2 1/2x1/4x3/8	5'	5'	101.4 K=1.00	2.130	-0.069	51.912	0.001 ¹
T67	225 - 195	2L2x2 1/2x1/4x3/8	5'	5'	101.4 K=1.00	2.130	-0.133	51.912	0.003 ¹
T68	195 - 187.5	2L2x2 1/2x1/4x3/8	5'	5'	101.4 K=1.00	2.130	-0.032	51.912	0.001 ¹
T71	172.5 - 165	2L2x2 1/2x1/4x3/8	5'	5'	101.4 K=1.00	2.130	-0.100	51.912	0.002 ¹
T72	165 - 135	2L2x2 1/2x1/4x3/8	5'	5'	101.4 K=1.00	2.130	-0.089	51.912	0.002 ¹
T73	135 - 105	2L2x2 1/2x1/4x3/8	5'	5'	101.4 K=1.00	2.130	-0.063	51.912	0.001 ¹
T74	105 - 75	2L2x2 1/2x1/4x3/8	5'	5'	101.4 K=1.00	2.130	-0.116	51.912	0.002 ¹
T75	75 - 45	2L2x2 1/2x1/4x3/8	5'	5'	101.4 K=1.00	2.130	-0.172	51.912	0.003 ¹
T76	45 - 37.5	2L2x2 1/2x1/4x3/8	5'	5'	101.4 K=1.00	2.130	-0.208	51.912	0.004 ¹
T77	37.5 - 30	2L2x2 1/2x1/4x3/8	5'	5'	101.4 K=1.00	2.130	-0.219	51.912	0.004 ¹
T78	30 - 22.5	L3x3x1/4	5'	5'	110.7 K=1.09	1.440	-0.216	31.873	0.007 ¹

¹ P_u / φP_n controls

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Tension Checks

Leg Design Data (Tension)

Section No.	Elevation <i>ft</i>	Size	<i>L</i> <i>ft</i>	<i>L_u</i> <i>ft</i>	<i>Kl/r</i>	<i>A</i> <i>in²</i>	<i>P_u</i> <i>K</i>	ϕP_n <i>K</i>	Ratio $\frac{P_u}{\phi P_n}$
T1	1620 - 1612.5	5	7'6"	7'6"	72.0	19.635	73.978	883.573	0.084 ¹

¹ $P_u / \phi P_n$ controls

Leg Bending Design Data (Tension)

Section No.	Elevation <i>ft</i>	Size	<i>M_{ux}</i> <i>kip-ft</i>	ϕM_{nx} <i>kip-ft</i>	Ratio $\frac{M_{ux}}{\phi M_{nx}}$	<i>M_{uy}</i> <i>kip-ft</i>	ϕM_{ny} <i>kip-ft</i>	Ratio $\frac{M_{uy}}{\phi M_{ny}}$
T1	1620 - 1612.5	5	0.000	78.125	0.000	0.000	78.125	0.000

Leg Interaction Design Data (Tension)

Section No.	Elevation <i>ft</i>	Size	Ratio $\frac{P_u}{\phi P_n}$	Ratio $\frac{M_{ux}}{\phi M_{nx}}$	Ratio $\frac{M_{uy}}{\phi M_{ny}}$	Comb. Stress Ratio	Allow. Stress Ratio	Criteria
T1	1620 - 1612.5	5	0.084	0.000	0.000	0.084 ¹	1.000	4.8.1 ✓

¹ $P_u / \phi P_n$ controls

Diagonal Design Data (Tension)

Section No.	Elevation <i>ft</i>	Size	<i>L</i> <i>ft</i>	<i>L_u</i> <i>ft</i>	<i>Kl/r</i>	<i>A</i> <i>in²</i>	<i>P_u</i> <i>K</i>	ϕP_n <i>K</i>	Ratio $\frac{P_u}{\phi P_n}$
T1	1620 - 1612.5	2L4x4x3/8x3/8	9'5/32"	8'2-5/32'	84.3	3.798	10.424	165.205	0.063 ¹
T2	1612.5 - 1605	2L2 1/2x2 1/2x3/8x3/8	9'5/32"	8'2-5/32'	137.7	2.110	11.483	91.799	0.125 ¹
T3	1605 - 1575	2L 'a' > 46.157 in - 20 2L2 1/2x2 1/2x1/4x3/8	9'5/32"	8'2-5/32'	134.8	1.457	12.041	63.374	0.190 ¹
T4	1575 - 1545	2L 'a' > 45.922 in - 71 2L2 1/2x2 1/2x3/16x3/8	9'5/32"	8'2-5/32'	133.2	1.104	7.542	48.020	0.157 ¹
T5	1545 - 1515	2L 'a' > 45.959 in - 122 2L2 1/2x2 1/2x3/16x3/8	9'5/32"	8'2-5/32'	133.2	1.104	6.713	48.020	0.140 ¹

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Section No.	Elevation ft	Size	L ft	L _u ft	Kl/r	A in ²	P _u K	φP _n K	Ratio $\frac{P_u}{\phi P_n}$
T6	1515 - 1485	2L 'a' > 45.959 in - 140 2L2 1/2x2 1/2x3/16x3/8	9'5/32"	8'2-5/32'	133.2	1.104	10.979	48.020	0.229 ¹ ✓
T7	1485 - 1455	2L 'a' > 45.959 in - 191 2L2 1/2x2 1/2x1/4x3/8	9'5/32"	8'2-5/32'	134.8	1.457	15.074	63.374	0.238 ¹ ✓
T8	1455 - 1447.5	2L 'a' > 45.922 in - 242 2L2 1/2x2 1/2x3/8x3/8	9'5/32"	8'1-23/3 2"	137.1	2.110	16.215	91.799	0.177 ¹ ✓
T9	1447.5 - 1440	2L 'a' > 46.022 in - 291 2L2 1/2x2 1/2x3/8x3/8	9'5/32"	8'1-23/3 2"	137.1	2.110	17.041	91.799	0.186 ¹ ✓
T12	1425 - 1395	2L 'a' > 46.022 in - 306 2L2 1/2x2 1/2x3/8x3/8	9'5/32"	8'1-23/3 2"	137.1	2.110	15.113	91.799	0.165 ¹ ✓
T13	1395 - 1365	2L 'a' > 46.022 in - 383 2L2 1/2x2 1/2x1/4x3/8	9'5/32"	8'1-23/3 2"	134.2	1.457	10.052	63.374	0.159 ¹ ✓
T14	1365 - 1335	2L 'a' > 45.789 in - 434 2L2 1/2x2 1/2x3/16x3/8	9'5/32"	8'1-23/3 2"	132.7	1.104	5.408	48.020	0.113 ¹ ✓
T15	1335 - 1305	2L 'a' > 45.826 in - 453 2L2 1/2x2 1/2x3/16x3/8	9'5/32"	8'1-23/3 2"	132.7	1.104	9.574	48.020	0.199 ¹ ✓
T16	1305 - 1275	2L 'a' > 45.826 in - 504 2L2 1/2x2 1/2x1/4x3/8	9'5/32"	8'1-1/4"	133.6	1.457	14.088	63.374	0.222 ¹ ✓
T17	1275 - 1245	2L 'a' > 45.656 in - 554 2L2 1/2x2 1/2x1/4x3/8	9'5/32"	8'1-1/4"	133.6	1.457	18.500	63.374	0.292 ¹ ✓
T18	1245 - 1237.5	2L 'a' > 45.656 in - 605 2L2 1/2x2 1/2x3/8x3/8	9'5/32"	8'1-1/4"	136.5	2.110	19.874	91.799	0.216 ¹ ✓
T19	1237.5 - 1230	2L 'a' > 45.888 in - 654 2L2 1/2x2 1/2x3/8x3/8	9'5/32"	8'1-1/4"	136.5	2.110	20.416	91.799	0.222 ¹ ✓
T22	1215 - 1185	2L 'a' > 45.888 in - 669 2L2 1/2x2 1/2x3/8x3/8	9'5/32"	8'1-1/4"	136.5	2.110	14.120	91.799	0.154 ¹ ✓
T23	1185 - 1155	2L 'a' > 45.888 in - 746 2L2 1/2x2 1/2x1/4x3/8	9'5/32"	8'1-1/4"	133.6	1.457	10.044	63.374	0.158 ¹ ✓
T24	1155 - 1125	2L 'a' > 45.656 in - 797 2L2 1/2x2 1/2x3/8x3/8	9'5/32"	8'1-1/4"	136.5	2.110	5.820	91.799	0.063 ¹ ✓
T25	1125 - 1095	2L 'a' > 45.888 in - 848 2L2 1/2x2 1/2x3/8x3/8	9'5/32"	8'1-1/4"	136.5	2.110	10.206	91.799	0.111 ¹ ✓
T26	1095 - 1065	2L 'a' > 45.888 in - 866 2L2 1/2x2 1/2x3/8x3/8	9'5/32"	8'13/16"	135.9	2.110	15.035	91.799	0.164 ¹ ✓
T27	1065 - 1057.5	2L 'a' > 45.753 in - 917 2L2 1/2x2 1/2x3/8x3/8	9'5/32"	8'13/16"	135.9	2.110	16.358	91.799	0.178 ¹ ✓

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Section No.	Elevation ft	Size	L ft	L _u ft	Kl/r	A in ²	P _u K	φP _n K	Ratio $\frac{P_u}{\phi P_n}$
T28	1057.5 - 1050	2L 'a' > 45.753 in - 966 2L2 1/2x2 1/2x3/8x3/8	9'5/32"	8'13/16"	135.9	2.110	16.777	91.799	0.183 ¹ ✓
T31	1035 - 1005	2L 'a' > 45.753 in - 981 2L2 1/2x2 1/2x3/8x3/8	9'5/32"	8'13/16"	135.9	2.110	18.188	91.799	0.198 ¹ ✓
T32	1005 - 975	2L 'a' > 45.753 in - 1058 2L2 1/2x2 1/2x3/8x3/8	9'5/32"	8'13/16"	135.9	2.110	13.903	91.799	0.151 ¹ ✓
T33	975 - 945	2L 'a' > 45.753 in - 1109 2L2 1/2x2 1/2x3/16x3/8	9'5/32"	8'13/16"	131.5	1.104	9.179	48.020	0.191 ¹ ✓
T34	945 - 915	2L 'a' > 45.562 in - 1160 2L2 1/2x2 1/2x3/16x3/8	9'5/32"	8'13/16"	131.5	1.104	12.753	48.020	0.266 ¹ ✓
T35	915 - 885	2L 'a' > 45.562 in - 1181 2L2 1/2x2 1/2x3/8x3/8	9'5/32"	8'13/16"	135.9	2.110	16.929	91.799	0.184 ¹ ✓
T36	885 - 877.5	2L 'a' > 45.753 in - 1232 2L2 1/2x2 1/2x3/8x3/8	9'5/32"	8'13/16"	135.9	2.110	18.359	91.799	0.200 ¹ ✓
T37	877.5 - 870	2L 'a' > 45.753 in - 1277 2L2 1/2x2 1/2x3/8x3/8	9'5/32"	8'13/16"	135.9	2.110	18.702	91.799	0.204 ¹ ✓
T40	855 - 825	2L 'a' > 45.753 in - 1292 2L2 1/2x2 1/2x3/8x3/8	9'5/32"	8'13/16"	135.9	2.110	15.213	91.799	0.166 ¹ ✓
T41	825 - 795	2L 'a' > 45.753 in - 1371 2L2 1/2x2 1/2x3/8x3/8	9'5/32"	8'13/16"	135.9	2.110	9.897	91.799	0.108 ¹ ✓
T42	795 - 765	2L 'a' > 45.753 in - 1422 2L2 1/2x2 1/2x3/16x3/8	9'5/32"	8'13/16"	131.5	1.104	4.699	48.020	0.098 ¹ ✓
T43	765 - 735	2L 'a' > 45.562 in - 1443 2L2 1/2x2 1/2x3/16x3/8	9'5/32"	8'13/16"	131.5	1.104	10.503	48.020	0.219 ¹ ✓
T44	735 - 705	2L 'a' > 45.562 in - 1487 2L2 1/2x2 1/2x3/16x3/8	9'5/32"	8'13/16"	131.5	1.104	15.893	48.020	0.331 ¹ ✓
T45	705 - 675	2L 'a' > 45.562 in - 1538 2L2 1/2x2 1/2x3/8x3/8	9'5/32"	8'13/16"	135.9	2.110	21.060	91.799	0.229 ¹ ✓
T46	675 - 645	2L 'a' > 45.753 in - 1589 2L2 1/2x2 1/2x3/8x3/8	9'5/32"	8'3/8"	135.3	2.110	25.880	91.799	0.282 ¹ ✓
T47	645 - 637.5	2L 'a' > 45.619 in - 1640 2L2 1/2x2 1/2x3/8x3/8	9'5/32"	8'3/8"	135.3	2.110	25.575	91.799	0.279 ¹ ✓
T50	622.5 - 615	2L 'a' > 45.619 in - 1690 2L2 1/2x2 1/2x3/8x3/8	9'5/32"	8'3/8"	135.3	2.110	16.500	91.799	0.180 ¹ ✓
T51	615 - 585	2L 'a' > 45.619 in - 1734 2L2 1/2x2 1/2x3/8x3/8	9'5/32"	8'3/8"	135.3	2.110	15.652	91.799	0.170 ¹ ✓
		2L 'a' > 45.619 in - 1785							✓

tnxTower TASHJIAN TOWERS CORP. 2765 S. TEMPERANCE AVE. FOWLER, CA. 93625 Phone: (559) 834-4300 FAX: (559) 834-4377	Job LAFAYETTE	Page 114 of 134
	Project 1620' GUYED TOWER	Date 11:40:25 11/02/18
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Section No.	Elevation ft	Size	L ft	L _u ft	Kl/r	A in ²	P _u K	φP _n K	Ratio $\frac{P_u}{\phi P_n}$
T52	585 - 555	2L2 1/2x2 1/2x1/4x3/8	9'5/32"	8'3/8"	132.5	1.457	11.349	63.374	0.179 ¹ ✓
T53	555 - 525	2L 'a' > 45.391 in - 1836 2L2 1/2x2 1/2x3/16x3/8	9'5/32"	8'3/8"	130.9	1.104	6.991	48.020	0.146 ¹ ✓
T54	525 - 495	2L 'a' > 45.429 in - 1887 2L2 1/2x2 1/2x3/16x3/8	9'5/32"	8'3/8"	130.9	1.104	6.574	48.020	0.137 ¹ ✓
T55	495 - 465	2L 'a' > 45.429 in - 1901 2L2 1/2x2 1/2x1/4x3/8	9'5/32"	8'3/8"	132.5	1.457	11.207	63.374	0.177 ¹ ✓
T56	465 - 435	2L 'a' > 45.391 in - 1952 2L2 1/2x2 1/2x3/8x3/8	9'5/32"	8'3/8"	135.3	2.110	17.131	91.799	0.187 ¹ ✓
T57	435 - 427.5	2L 'a' > 45.619 in - 2004 2L2 1/2x2 1/2x3/8x3/8	9'5/32"	7'11-29/32"	134.7	2.110	18.593	91.799	0.203 ¹ ✓
T58	427.5 - 420	2L 'a' > 45.484 in - 2054 2L2 1/2x2 1/2x3/8x3/8	9'5/32"	7'11-29/32"	134.7	2.110	17.413	91.799	0.190 ¹ ✓
T60	412.5 - 405	2L 'a' > 45.484 in - 2069 2L2 1/2x2 1/2x3/8x3/8	9'5/32"	8'5-13/32"	134.7	2.110	0.704	91.799	0.008 ¹ ✓
T61	405 - 375	4.8.1 (1.02 CR) - 2100 2L2 1/2x2 1/2x3/8x3/8	9'5/32"	7'11-29/32"	134.7	2.110	30.204	91.799	0.329 ¹ ✓
T62	375 - 345	2L 'a' > 45.484 in - 2149 2L2 1/2x2 1/2x3/8x3/8	9'5/32"	7'11-29/32"	134.7	2.110	24.864	91.799	0.271 ¹ ✓
T63	345 - 315	2L 'a' > 45.484 in - 2201 2L2 1/2x2 1/2x3/16x3/8	9'5/32"	7'11-29/32"	130.3	1.104	19.280	48.020	0.402 ¹ ✓
T64	315 - 285	2L 'a' > 45.297 in - 2252 2L2 1/2x2 1/2x3/16x3/8	9'5/32"	7'11-29/32"	130.3	1.104	14.023	48.020	0.292 ¹ ✓
T65	285 - 255	2L 'a' > 45.297 in - 2303 2L2 1/2x2 1/2x3/16x3/8	9'5/32"	7'11-29/32"	130.3	1.104	7.540	48.020	0.157 ¹ ✓
T66	255 - 225	2L 'a' > 45.297 in - 2354 2L2 1/2x2 1/2x3/16x3/8	9'5/32"	7'11-29/32"	130.3	1.104	11.476	48.020	0.239 ¹ ✓
T67	225 - 195	2L 'a' > 45.297 in - 2367 2L2 1/2x2 1/2x3/16x3/8	9'5/32"	7'11-29/32"	130.3	1.104	16.898	48.020	0.352 ¹ ✓
T70	180 - 172.5	2L 'a' > 45.297 in - 2429 2L2 1/2x2 1/2x3/8x3/8	9'5/32"	7'11-29/32"	134.7	2.110	11.772	91.799	0.128 ¹ ✓
T71	172.5 - 165	2L 'a' > 45.484 in - 2499 2L2 1/2x2 1/2x3/8x3/8	9'5/32"	7'11-29/32"	134.7	2.110	11.086	91.799	0.121 ¹ ✓
T72	165 - 135	2L 'a' > 45.484 in - 2514 2L2 1/2x2 1/2x3/16x3/8	9'5/32"	7'11-29/32"	130.3	1.104	9.279	48.020	0.193 ¹ ✓
T73	135 - 105	2L 'a' > 45.297 in - 2564 2L2 1/2x2 1/2x3/16x3/8	9'5/32"	7'11-29/32"	130.3	1.104	9.904	48.020	0.206 ¹ ✓

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	Project 1620' GUYED TOWER	Date 11:40:25 11/02/18
	Client KLFY	Designed by M.C.

Section No.	Elevation ft	Size	L ft	L _u ft	Kl/r	A in ²	P _u K	φP _n K	Ratio $\frac{P_u}{\phi P_n}$
				32"					✓
T74	105 - 75	2L 'a' > 45.297 in - 2577 2L2 1/2x2 1/2x3/16x3/8	9'5/32"	7'11-29/32"	130.3	1.104	15.101	48.020	0.314 ¹ ✓
T75	75 - 45	2L 'a' > 45.297 in - 2628 2L2 1/2x2 1/2x3/8x3/8	9'5/32"	7'11-29/32"	134.7	2.110	20.245	91.799	0.221 ¹ ✓
T76	45 - 37.5	2L 'a' > 45.484 in - 2679 2L2 1/2x2 1/2x3/8x3/8	9'5/32"	7'11-29/32"	134.7	2.110	21.359	91.799	0.233 ¹ ✓
T77	37.5 - 30	2L 'a' > 45.484 in - 2729 2L2 1/2x2 1/2x3/8x3/8	9'5/32"	7'10-13/32"	134.7	1.970	21.519	85.681	0.251 ¹ ✓
T78	30 - 22.5	2L 'a' > 45.037 in - 2744 2L2 1/2x2 1/2x3/8x3/8	9'5/32"	7'11-29/32"	134.7	2.110	18.294	91.799	0.199 ¹ ✓
T79	22.5 - 15	2L 'a' > 45.484 in - 2759 2L2 1/2x2 1/2x3/8x3/8	9'5/32"	7'11-29/32"	134.7	2.110	14.874	91.799	0.162 ¹ ✓
		2L 'a' > 45.484 in - 2775							✓

¹ P_u / φP_n controls

Horizontal Design Data (Tension)

Section No.	Elevation ft	Size	L ft	L _u ft	Kl/r	A in ²	P _u K	φP _n K	Ratio $\frac{P_u}{\phi P_n}$
T3	1605 - 1575	2L2 1/2x2 1/2x1/4x3/8	10'	4'6-3/4"	74.8	1.457	6.198	63.374	0.098 ¹ ✓
T4	1575 - 1545	2L 'a' > 26.218 in - 58 2L2 1/2x2 1/2x3/16x3/8	10'	4'6-3/4"	73.9	1.104	4.000	48.020	0.083 ¹ ✓
T5	1545 - 1515	2L 'a' > 26.126 in - 88 2L2 1/2x2 1/2x3/16x3/8	10'	4'6-3/4"	73.9	1.104	4.116	48.020	0.086 ¹ ✓
T6	1515 - 1485	2L 'a' > 26.126 in - 139 2L2 1/2x2 1/2x3/16x3/8	10'	4'6-3/4"	73.9	1.104	6.007	48.020	0.125 ¹ ✓
T7	1485 - 1455	2L 'a' > 26.126 in - 190 2L2 1/2x2 1/2x1/4x3/8	10'	4'6-3/4"	74.8	1.457	8.381	63.374	0.132 ¹ ✓
T12	1425 - 1395	2L 'a' > 26.218 in - 241 2L2 1/2x2 1/2x3/8x3/8	10'	4'6-1/2"	76.0	2.110	7.993	91.799	0.087 ¹ ✓
T13	1395 - 1365	2L 'a' > 26.436 in - 370 2L2 1/2x2 1/2x1/4x3/8	10'	4'6-1/2"	74.4	1.457	7.315	63.374	0.115 ¹ ✓
T14	1365 - 1335	2L 'a' > 26.098 in - 400 2L2 1/2x2 1/2x3/16x3/8	10'	4'6-1/2"	73.6	1.104	7.734	48.020	0.161 ¹ ✓

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	Project 1620' GUYED TOWER	Date 11:40:25 11/02/18
	Client KLFY	Designed by M.C.

Section No.	Elevation ft	Size	L ft	L _u ft	Kl/r	A in ²	P _u K	φP _n K	Ratio $\frac{P_u}{\phi P_n}$
T15	1335 - 1305	2L 'a' > 26.007 in - 451 2L2 1/2x2 1/2x3/16x3/8	10'	4'6-1/2"	73.6	1.104	7.754	48.020	0.161 ¹ ✓
T16	1305 - 1275	2L 'a' > 26.007 in - 502 2L2 1/2x2 1/2x1/4x3/8	10'	4'6-1/4"	74.1	1.457	7.964	63.374	0.126 ¹ ✓
T17	1275 - 1245	2L 'a' > 25.979 in - 553 2L2 1/2x2 1/2x1/4x3/8	10'	4'6-1/4"	74.1	1.457	10.428	63.374	0.165 ¹ ✓
T22	1215 - 1185	2L 'a' > 25.979 in - 604 2L2 1/2x2 1/2x3/8x3/8	10'	4'6-1/4"	75.7	2.110	9.214	91.799	0.100 ¹ ✓
T23	1185 - 1155	2L 'a' > 26.314 in - 709 2L2 1/2x2 1/2x1/4x3/8	10'	4'6-1/4"	74.1	1.457	8.689	63.374	0.137 ¹ ✓
T24	1155 - 1125	2L 'a' > 25.979 in - 766 2L2 1/2x2 1/2x3/16x3/8	10'	4'6-1/4"	73.3	1.104	8.629	48.020	0.180 ¹ ✓
T25	1125 - 1095	2L 'a' > 25.887 in - 811 2L2 1/2x2 1/2x3/8x3/8	10'	4'6-1/4"	75.7	2.110	8.824	91.799	0.096 ¹ ✓
T26	1095 - 1065	2L 'a' > 26.314 in - 868 2L2 1/2x2 1/2x1/4x3/8	10'	4'6"	73.8	1.457	9.469	63.374	0.149 ¹ ✓
T31	1035 - 1005	2L 'a' > 25.859 in - 913 2L2 1/2x2 1/2x3/8x3/8	10'	4'6"	75.4	2.110	9.787	91.799	0.107 ¹ ✓
T32	1005 - 975	2L 'a' > 26.193 in - 1045 2L2 1/2x2 1/2x1/4x3/8	10'	4'6"	73.8	1.457	9.960	63.374	0.157 ¹ ✓
T33	975 - 945	2L 'a' > 25.859 in - 1078 2L2 1/2x2 1/2x3/16x3/8	10'	4'6"	72.9	1.104	10.024	48.020	0.209 ¹ ✓
T34	945 - 915	2L 'a' > 25.768 in - 1129 2L2 1/2x2 1/2x3/16x3/8	10'	4'6"	72.9	1.104	9.797	48.020	0.204 ¹ ✓
T35	915 - 885	2L 'a' > 25.768 in - 1174 2L2 1/2x2 1/2x1/4x3/8	10'	4'6"	73.8	1.457	9.919	63.374	0.157 ¹ ✓
T40	855 - 825	2L 'a' > 25.859 in - 1225 2L2 1/2x2 1/2x3/8x3/8	10'	4'6"	75.4	2.110	11.562	91.799	0.126 ¹ ✓
T41	825 - 795	2L 'a' > 26.193 in - 1336 2L2 1/2x2 1/2x1/4x3/8	10'	4'6"	73.8	1.457	11.739	63.374	0.185 ¹ ✓
T42	795 - 765	2L 'a' > 25.859 in - 1387 2L2 1/2x2 1/2x3/16x3/8	10'	4'6"	72.9	1.104	11.875	48.020	0.247 ¹ ✓
T43	765 - 735	2L 'a' > 25.768 in - 1438 2L2 1/2x2 1/2x3/16x3/8	10'	4'6"	72.9	1.104	11.850	48.020	0.247 ¹ ✓
T44	735 - 705	2L 'a' > 25.768 in - 1492 2L2 1/2x2 1/2x3/16x3/8	10'	4'6"	72.9	1.104	11.772	48.020	0.245 ¹ ✓
		2L 'a' > 25.768 in - 1543							✓

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	Client KLFY	Designed by M.C.

Section No.	Elevation ft	Size	L ft	L _u ft	Kl/r	A in ²	P _u K	φP _n K	Ratio $\frac{P_u}{\phi P_n}$
T45	705 - 675	2L2 1/2x2 1/2x1/4x3/8	10'	4'6"	73.8	1.457	12.269	63.374	0.194 ¹ ✓
T46	675 - 645	2L 'a' > 25.859 in - 1591 2L2 1/2x2 1/2x3/8x3/8	10'	4'5-3/4"	75.0	2.110	14.180	91.799	0.154 ¹ ✓
T51	615 - 585	2L 'a' > 26.072 in - 1639 2L2 1/2x2 1/2x3/8x3/8	10'	4'5-3/4"	75.0	2.110	14.338	91.799	0.156 ¹ ✓
T52	585 - 555	2L 'a' > 26.072 in - 1747 2L2 1/2x2 1/2x1/4x3/8	10'	4'5-3/4"	73.5	1.457	13.547	63.374	0.214 ¹ ✓
T53	555 - 525	2L 'a' > 25.739 in - 1804 2L2 1/2x2 1/2x3/16x3/8	10'	4'5-3/4"	72.6	1.104	13.401	48.020	0.279 ¹ ✓
T54	525 - 495	2L 'a' > 25.649 in - 1852 2L2 1/2x2 1/2x3/16x3/8	10'	4'5-3/4"	72.6	1.104	13.559	48.020	0.282 ¹ ✓
T55	495 - 465	2L 'a' > 25.649 in - 1903 2L2 1/2x2 1/2x1/4x3/8	10'	4'5-3/4"	73.5	1.457	13.957	63.374	0.220 ¹ ✓
T56	465 - 435	2L 'a' > 25.739 in - 1951 2L2 1/2x2 1/2x3/8x3/8	10'	4'5-3/4"	75.0	2.110	14.677	91.799	0.160 ¹ ✓
T61	405 - 375	2L 'a' > 26.072 in - 2008 2L2 1/2x2 1/2x3/8x3/8	10'	4'5-1/2"	74.7	2.110	16.466	91.799	0.179 ¹ ✓
T62	375 - 345	2L 'a' > 25.951 in - 2140 2L2 1/2x2 1/2x3/8x3/8	10'	4'5-1/2"	74.7	2.110	16.396	91.799	0.179 ¹ ✓
T63	345 - 315	2L 'a' > 25.951 in - 2164 2L2 1/2x2 1/2x1/4x3/8	10'	4'5-1/2"	73.1	1.457	17.983	63.374	0.284 ¹ ✓
T64	315 - 285	2L 'a' > 25.619 in - 2212 2L2 1/2x2 1/2x3/16x3/8	10'	4'5-1/2"	72.3	1.104	18.980	48.020	0.395 ¹ ✓
T65	285 - 255	2L 'a' > 25.529 in - 2263 2L2 1/2x2 1/2x3/16x3/8	10'	4'5-1/2"	72.3	1.104	19.334	48.020	0.403 ¹ ✓
T66	255 - 225	2L 'a' > 25.529 in - 2314 2L2 1/2x2 1/2x3/16x3/8	10'	4'5-1/2"	72.3	1.104	19.321	48.020	0.402 ¹ ✓
T67	225 - 195	2L 'a' > 25.529 in - 2368 2L2 1/2x2 1/2x1/4x3/8	10'	4'5-1/2"	73.1	1.457	18.870	63.374	0.298 ¹ ✓
T72	165 - 135	2L 'a' > 25.619 in - 2416 2L2 1/2x2 1/2x1/4x3/8	10'	4'5-1/2"	73.1	1.457	19.855	63.374	0.313 ¹ ✓
T73	135 - 105	2L 'a' > 25.619 in - 2524 2L2 1/2x2 1/2x3/16x3/8	10'	4'5-1/2"	72.3	1.104	19.999	48.020	0.416 ¹ ✓
T74	105 - 75	2L 'a' > 25.529 in - 2575 2L2 1/2x2 1/2x3/16x3/8	10'	4'5-1/2"	72.3	1.104	19.907	48.020	0.415 ¹ ✓
T75	75 - 45	2L 'a' > 25.529 in - 2632 2L2 1/2x2 1/2x1/4x3/8	10'	4'5-1/2"	73.1	1.457	19.299	63.374	0.305 ¹ ✓

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Section No.	Elevation ft	Size	L ft	L _u ft	Kl/r	A in ²	P _u K	φP _n K	Ratio $\frac{P_u}{\phi P_n}$
T80	15 - 0	2L 'a' > 25.619 in - 2683 2L4x4x1/2x3/8	3'4"	2'1-1/2"	26.6	4.781	35.926	207.984	0.173 ¹ ✓
		2L 'a' > 12.259 in - 2794							✓

¹ P_u / φP_n controls

Top Girt Design Data (Tension)

Section No.	Elevation ft	Size	L ft	L _u ft	Kl/r	A in ²	P _u K	φP _n K	Ratio $\frac{P_u}{\phi P_n}$
T1	1620 - 1612.5	2C10x30x0.375	10'	7'2-1/4"	80.6	12.347	7.050	537.081	0.013 ¹ ✓
T3	1605 - 1575	2L2 1/2x2 1/2x1/4x3/8	10'	4'6-3/4"	74.8	1.457	7.925	63.374	0.125 ¹ ✓
T4	1575 - 1545	2L 'a' > 26.218 in - 31 2L2 1/2x2 1/2x3/16x3/8	10'	4'6-3/4"	73.9	1.104	4.299	48.020	0.090 ¹ ✓
T5	1545 - 1515	2L 'a' > 26.126 in - 82 2L2 1/2x2 1/2x3/16x3/8	10'	4'6-3/4"	73.9	1.104	1.736	48.020	0.036 ¹ ✓
T6	1515 - 1485	2L 'a' > 26.126 in - 134 2L2 1/2x2 1/2x3/16x3/8	10'	4'6-3/4"	73.9	1.104	4.231	48.020	0.088 ¹ ✓
T7	1485 - 1455	2L 'a' > 26.126 in - 185 2L2 1/2x2 1/2x1/4x3/8	10'	4'6-3/4"	74.8	1.457	6.614	63.374	0.104 ¹ ✓
T8	1455 - 1447.5	2L 'a' > 26.218 in - 236 2L2 1/2x2 1/2x3/8x3/8	10'	4'6-3/4"	76.4	2.110	8.977	91.799	0.098 ¹ ✓
T9	1447.5 - 1440	2L 'a' > 26.557 in - 287 2L2 1/2x2 1/2x3/8x3/8	10'	4'6-1/2"	76.0	2.110	9.663	91.799	0.105 ¹ ✓
T11	1432.5 - 1425	2L 'a' > 26.436 in - 302 2L2 1/2x2 1/2x3/8x3/8	10'	4'6-1/2"	76.0	2.110	0.346	91.799	0.004 ¹ ✓
T12	1425 - 1395	2L 'a' > 26.436 in - 322 2L2 1/2x2 1/2x3/8x3/8	10'	4'6-1/2"	76.0	2.110	18.506	91.799	0.202 ¹ ✓
T13	1395 - 1365	2L 'a' > 26.436 in - 343 2L2 1/2x2 1/2x1/4x3/8	10'	4'6-1/2"	74.4	1.457	5.735	63.374	0.090 ¹ ✓
T14	1365 - 1335	2L 'a' > 26.098 in - 394 2L2 1/2x2 1/2x3/16x3/8	10'	4'6-1/2"	73.6	1.104	2.887	48.020	0.060 ¹ ✓
T15	1335 - 1305	2L 'a' > 26.007 in - 445 2L2 1/2x2 1/2x3/16x3/8	10'	4'6-1/2"	73.6	1.104	3.506	48.020	0.073 ¹ ✓
		2L 'a' > 26.007 in - 497							✓

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Section No.	Elevation ft	Size	L ft	L _u ft	Kl/r	A in ²	P _u K	φP _n K	Ratio $\frac{P_u}{\phi P_n}$
T16	1305 - 1275	2L2 1/2x2 1/2x1/4x3/8	10'	4'6-1/2"	74.4	1.457	5.992	63.374	0.095 ¹ ✓
T17	1275 - 1245	2L 'a' > 26.098 in - 548 2L2 1/2x2 1/2x1/4x3/8	10'	4'6-1/4"	74.1	1.457	8.622	63.374	0.136 ¹ ✓
T18	1245 - 1237.5	2L 'a' > 25.979 in - 599 2L2 1/2x2 1/2x3/8x3/8	10'	4'6-1/4"	75.7	2.110	11.070	91.799	0.121 ¹ ✓
T19	1237.5 - 1230	2L 'a' > 26.314 in - 650 2L2 1/2x2 1/2x3/8x3/8	10'	4'6-1/4"	75.7	2.110	11.672	91.799	0.127 ¹ ✓
T21	1222.5 - 1215	2L 'a' > 26.314 in - 665 2L2 1/2x2 1/2x3/8x3/8	10'	4'6-1/4"	75.7	2.110	0.501	91.799	0.005 ¹ ✓
T22	1215 - 1185	2L 'a' > 26.314 in - 682 2L2 1/2x2 1/2x3/8x3/8	10'	4'6-1/4"	75.7	2.110	21.464	91.799	0.234 ¹ ✓
T23	1185 - 1155	2L 'a' > 26.314 in - 706 2L2 1/2x2 1/2x1/4x3/8	10'	4'6-1/4"	74.1	1.457	5.503	63.374	0.087 ¹ ✓
T24	1155 - 1125	2L 'a' > 25.979 in - 757 2L2 1/2x2 1/2x3/16x3/8	10'	4'6-1/4"	73.3	1.104	3.168	48.020	0.066 ¹ ✓
T25	1125 - 1095	2L 'a' > 25.887 in - 808 2L2 1/2x2 1/2x3/8x3/8	10'	4'6-1/4"	75.7	2.110	3.762	91.799	0.041 ¹ ✓
T26	1095 - 1065	2L 'a' > 26.314 in - 860 2L2 1/2x2 1/2x1/4x3/8	10'	4'6-1/4"	74.1	1.457	6.536	63.374	0.103 ¹ ✓
T27	1065 - 1057.5	2L 'a' > 25.979 in - 911 2L2 1/2x2 1/2x3/8x3/8	10'	4'6"	75.4	2.110	9.129	91.799	0.099 ¹ ✓
T28	1057.5 - 1050	2L 'a' > 26.193 in - 962 2L2 1/2x2 1/2x3/8x3/8	10'	4'6"	75.4	2.110	9.767	91.799	0.106 ¹ ✓
T30	1042.5 - 1035	2L 'a' > 26.193 in - 977 2L2 1/2x2 1/2x3/8x3/8	10'	4'6"	75.4	2.110	0.695	91.799	0.008 ¹ ✓
T31	1035 - 1005	2L 'a' > 26.193 in - 994 2L2 1/2x2 1/2x3/8x3/8	10'	4'6"	75.4	2.110	24.249	91.799	0.264 ¹ ✓
T32	1005 - 975	2L 'a' > 26.193 in - 1018 2L2 1/2x2 1/2x1/4x3/8	10'	4'6"	73.8	1.457	7.657	63.374	0.121 ¹ ✓
T33	975 - 945	2L 'a' > 25.859 in - 1069 2L2 1/2x2 1/2x3/16x3/8	10'	4'6"	72.9	1.104	4.973	48.020	0.104 ¹ ✓
T34	945 - 915	2L 'a' > 25.768 in - 1120 2L2 1/2x2 1/2x3/16x3/8	10'	4'6"	72.9	1.104	5.976	48.020	0.124 ¹ ✓
T35	915 - 885	2L 'a' > 25.768 in - 1173 2L2 1/2x2 1/2x1/4x3/8	10'	4'6"	73.8	1.457	8.281	63.374	0.131 ¹ ✓
T36	885 - 877.5	2L 'a' > 25.859 in - 1224 2L2 1/2x2 1/2x3/8x3/8	10'	4'6"	75.4	2.110	10.220	91.799	0.111 ¹ ✓

tnxTower TASHJIAN TOWERS CORP. 2765 S. TEMPERANCE AVE. FOWLER, CA. 93625 Phone: (559) 834-4300 FAX: (559) 834-4377	Job LAFAYETTE	Page 120 of 134
	Project 1620' GUYED TOWER	Date 11:40:25 11/02/18
	Client KLFY	Designed by M.C.

Section No.	Elevation ft	Size	L ft	L _u ft	Kl/r	A in ²	P _u K	φP _n K	Ratio $\frac{P_u}{\phi P_n}$
T37	877.5 - 870	2L 'a' > 26.193 in - 1273 2L2 1/2x2 1/2x3/8x3/8	10'	4'6"	75.4	2.110	10.836	91.799	0.118 ¹ ✓
T39	862.5 - 855	2L 'a' > 26.193 in - 1288 2L2 1/2x2 1/2x3/8x3/8	10'	4'6"	75.4	2.110	0.783	91.799	0.009 ¹ ✓
T40	855 - 825	2L 'a' > 26.193 in - 1306 2L2 1/2x2 1/2x3/8x3/8	10'	4'6"	75.4	2.110	25.123	91.799	0.274 ¹ ✓
T41	825 - 795	2L 'a' > 26.193 in - 1331 2L2 1/2x2 1/2x1/4x3/8	10'	4'6"	73.8	1.457	5.643	63.374	0.089 ¹ ✓
T42	795 - 765	2L 'a' > 25.859 in - 1382 2L2 1/2x2 1/2x3/16x3/8	10'	4'6"	72.9	1.104	2.458	48.020	0.051 ¹ ✓
T43	765 - 735	2L 'a' > 25.768 in - 1433 2L2 1/2x2 1/2x3/16x3/8	10'	4'6"	72.9	1.104	3.218	48.020	0.067 ¹ ✓
T44	735 - 705	2L 'a' > 25.768 in - 1485 2L2 1/2x2 1/2x3/16x3/8	10'	4'6"	72.9	1.104	6.468	48.020	0.135 ¹ ✓
T45	705 - 675	2L 'a' > 25.768 in - 1534 2L2 1/2x2 1/2x1/4x3/8	10'	4'6"	73.8	1.457	9.652	63.374	0.152 ¹ ✓
T46	675 - 645	2L 'a' > 25.859 in - 1585 2L2 1/2x2 1/2x3/8x3/8	10'	4'6"	75.4	2.110	12.330	91.799	0.134 ¹ ✓
T47	645 - 637.5	2L 'a' > 26.193 in - 1636 2L2 1/2x2 1/2x3/8x3/8	10'	4'5-3/4"	75.0	2.110	14.692	91.799	0.160 ¹ ✓
T49	630 - 622.5	2L 'a' > 26.072 in - 1687 2L2 1/2x2 1/2x3/8x3/8	10'	4'5-3/4"	75.0	2.110	1.238	91.799	0.013 ¹ ✓
T50	622.5 - 615	2L 'a' > 26.072 in - 1705 2L2 1/2x2 1/2x3/8x3/8	10'	4'5-3/4"	75.0	2.110	27.109	91.799	0.295 ¹ ✓
T51	615 - 585	2L 'a' > 26.072 in - 1730 2L2 1/2x2 1/2x3/8x3/8	10'	4'5-3/4"	75.0	2.110	9.194	91.799	0.100 ¹ ✓
T52	585 - 555	2L 'a' > 26.072 in - 1745 2L2 1/2x2 1/2x1/4x3/8	10'	4'5-3/4"	73.5	1.457	6.448	63.374	0.102 ¹ ✓
T53	555 - 525	2L 'a' > 25.739 in - 1796 2L2 1/2x2 1/2x3/16x3/8	10'	4'5-3/4"	72.6	1.104	3.999	48.020	0.083 ¹ ✓
T54	525 - 495	2L 'a' > 25.649 in - 1847 2L2 1/2x2 1/2x3/16x3/8	10'	4'5-3/4"	72.6	1.104	1.963	48.020	0.041 ¹ ✓
T55	495 - 465	2L 'a' > 25.649 in - 1899 2L2 1/2x2 1/2x1/4x3/8	10'	4'5-3/4"	73.5	1.457	4.319	63.374	0.068 ¹ ✓
T56	465 - 435	2L 'a' > 25.739 in - 1948 2L2 1/2x2 1/2x3/8x3/8	10'	4'5-3/4"	75.0	2.110	7.100	91.799	0.077 ¹ ✓

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	Project 1620' GUYED TOWER	Date 11:40:25 11/02/18
	Client KLFY	Designed by M.C.

Section No.	Elevation ft	Size	L ft	L _u ft	Kl/r	A in ²	P _u K	φP _n K	Ratio $\frac{P_u}{\phi P_n}$
T57	435 - 427.5	2L 'a' > 26.072 in - 1999 2L2 1/2x2 1/2x3/8x3/8	10'	4'5-3/4"	75.0	2.110	10.120	91.799	0.110 ¹ ✓
T58	427.5 - 420	2L 'a' > 26.072 in - 2050 2L2 1/2x2 1/2x3/8x3/8	10'	4'5-1/2"	74.7	2.110	10.409	91.799	0.113 ¹ ✓
T60	412.5 - 405	2L 'a' > 25.951 in - 2065 2L2 1/2x2 1/2x3/8x3/8	10'	4'8-1/4"	74.7	2.110	2.262	91.799	0.025 ¹ ✓
T61	405 - 375	2L 'a' > 27.285 in - 2083 2L2 1/2x2 1/2x3/8x3/8	10'	4'5-1/2"	74.7	2.110	34.667	91.799	0.378 ¹ ✓
T62	375 - 345	2L 'a' > 25.951 in - 2108 2L2 1/2x2 1/2x3/8x3/8	10'	4'5-1/2"	74.7	2.110	13.958	91.799	0.152 ¹ ✓
T63	345 - 315	2L 'a' > 25.951 in - 2160 2L2 1/2x2 1/2x1/4x3/8	10'	4'5-1/2"	73.1	1.457	10.869	63.374	0.172 ¹ ✓
T64	315 - 285	2L 'a' > 25.619 in - 2211 2L2 1/2x2 1/2x3/16x3/8	10'	4'5-1/2"	72.3	1.104	7.814	48.020	0.163 ¹ ✓
T65	285 - 255	2L 'a' > 25.529 in - 2262 2L2 1/2x2 1/2x3/16x3/8	10'	4'5-1/2"	72.3	1.104	4.171	48.020	0.087 ¹ ✓
T66	255 - 225	2L 'a' > 25.529 in - 2313 2L2 1/2x2 1/2x3/16x3/8	10'	4'5-1/2"	72.3	1.104	3.694	48.020	0.077 ¹ ✓
T67	225 - 195	2L 'a' > 25.529 in - 2362 2L2 1/2x2 1/2x1/4x3/8	10'	4'5-1/2"	73.1	1.457	7.308	63.374	0.115 ¹ ✓
T69	187.5 - 180	2L 'a' > 25.619 in - 2413 2L2 1/2x2 1/2x3/8x3/8	10'	4'5-1/2"	74.7	2.110	2.202	91.799	0.024 ¹ ✓
T70	180 - 172.5	2L 'a' > 25.951 in - 2467 2L2 1/2x2 1/2x3/8x3/8	10'	4'5-1/2"	74.7	2.110	28.022	91.799	0.305 ¹ ✓
T71	172.5 - 165	2L 'a' > 25.951 in - 2493 2L2 1/2x2 1/2x3/8x3/8	10'	4'5-1/2"	74.7	2.110	7.014	91.799	0.076 ¹ ✓
T72	165 - 135	2L 'a' > 25.951 in - 2508 2L2 1/2x2 1/2x1/4x3/8	10'	4'5-1/2"	73.1	1.457	5.394	63.374	0.085 ¹ ✓
T73	135 - 105	2L 'a' > 25.619 in - 2523 2L2 1/2x2 1/2x3/16x3/8	10'	4'5-1/2"	72.3	1.104	3.097	48.020	0.065 ¹ ✓
T74	105 - 75	2L 'a' > 25.529 in - 2574 2L2 1/2x2 1/2x3/16x3/8	10'	4'3-1/4"	72.3	1.104	6.100	48.020	0.127 ¹ ✓
T75	75 - 45	2L 'a' > 24.456 in - 2623 2L2 1/2x2 1/2x1/4x3/8	10'	3'10-3/4"	73.1	1.457	9.420	63.374	0.149 ¹ ✓
T76	45 - 37.5	2L 'a' > 22.387 in - 2674 2L2 1/2x2 1/2x3/8x3/8	10'	4'5-1/2"	74.7	2.110	11.814	91.799	0.129 ¹ ✓
		2L 'a' > 25.951 in - 2725							✓

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	Project 1620' GUYED TOWER	Date 11:40:25 11/02/18
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Section No.	Elevation ft	Size	L ft	L _u ft	Kl/r	A in ²	P _u K	φP _n K	Ratio $\frac{P_u}{\phi P_n}$
T77	37.5 - 30	2C6x13x0.375	10'	4'8-1/4"	64.3	4.844	12.432	210.700	0.059 ¹
T78	30 - 22.5	2C10x30x0.375	10'	4'8-1/4"	52.5	12.347	13.408	537.081	0.025 ¹
T79	22.5 - 15	2L2 1/2x2 1/2x3/8x3/8	10'	6'9-5/8"	74.7	2.110	11.289	91.799	0.123 ¹
T80	15 - 0	2L 'a' > 25.951 in - 2770 213x13x3/4x1/2	10'	6'5-3/4"	20.2	26.859	227.816	1168.380	0.195 ¹

¹ P_u / φP_n controls

Inner Bracing Design Data (Tension)

Section No.	Elevation ft	Size	L ft	L _u ft	Kl/r	A in ²	P _u K	φP _n K	Ratio $\frac{P_u}{\phi P_n}$
T2	1612.5 - 1605	2L2x2 1/2x1/4x3/8	5'	5'	101.4	2.130	0.078	69.012	0.001 ¹
T3	1605 - 1575	2L2x2 1/2x1/4x3/8	5'	5'	101.4	2.130	0.096	69.012	0.001 ¹
T4	1575 - 1545	2L2x2 1/2x1/4x3/8	5'	5'	101.4	2.130	0.072	69.012	0.001 ¹
T5	1545 - 1515	2L2x2 1/2x1/4x3/8	5'	5'	101.4	2.130	0.036	69.012	0.001 ¹
T6	1515 - 1485	2L2x2 1/2x1/4x3/8	5'	5'	101.4	2.130	0.078	69.012	0.001 ¹
T7	1485 - 1455	2L2x2 1/2x1/4x3/8	5'	5'	101.4	2.130	0.120	69.012	0.002 ¹
T8	1455 - 1447.5	2L2x2 1/2x1/4x3/8	5'	5'	101.4	2.130	0.160	69.012	0.002 ¹
T9	1447.5 - 1440	2L2x2 1/2x1/4x3/8	5'	5'	101.4	2.130	0.165	69.012	0.002 ¹
T10	1440 - 1432.5	2L2x2 1/2x1/4x3/8	5'	5'	101.4	2.130	0.006	69.012	0.000 ¹
T12	1425 - 1395	2L2x2 1/2x1/4x3/8	5'	5'	101.4	2.130	0.033	69.012	0.000 ¹
T13	1395 - 1365	2L2x2 1/2x1/4x3/8	5'	5'	101.4	2.130	0.096	69.012	0.001 ¹
T14	1365 - 1335	2L2x2 1/2x1/4x3/8	5'	5'	101.4	2.130	0.046	69.012	0.001 ¹
T15	1335 - 1305	2L2x2 1/2x1/4x3/8	5'	5'	101.4	2.130	0.065	69.012	0.001 ¹
T16	1305 - 1275	2L2x2 1/2x1/4x3/8	5'	5'	101.4	2.130	0.106	69.012	0.002 ¹
T17	1275 - 1245	2L2x2 1/2x1/4x3/8	5'	5'	101.4	2.130	0.146	69.012	0.002 ¹
T18	1245 - 1237.5	2L2x2 1/2x1/4x3/8	5'	5'	101.4	2.130	0.192	69.012	0.003 ¹
T19	1237.5 - 1230	2L2x2 1/2x1/4x3/8	5'	5'	101.4	2.130	0.192	69.012	0.003 ¹

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	Project 1620' GUYED TOWER	Date 11:40:25 11/02/18
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Section No.	Elevation ft	Size	L ft	L _u ft	Kl/r	A in ²	P _u K	φP _n K	Ratio $\frac{P_u}{\phi P_n}$
T20	1230 - 1222.5	2L2x2 1/2x1/4x3/8	5'	5'	101.4	2.130	0.011	69.012	0.000 ¹
T22	1215 - 1185	2L2x2 1/2x1/4x3/8	5'	5'	101.4	2.130	0.033	69.012	0.000 ¹
T23	1185 - 1155	2L2x2 1/2x1/4x3/8	5'	5'	101.4	2.130	0.100	69.012	0.001 ¹
T24	1155 - 1125	2L2x2 1/2x1/4x3/8	5'	5'	101.4	2.130	0.059	69.012	0.001 ¹
T25	1125 - 1095	2L2x2 1/2x1/4x3/8	5'	5'	101.4	2.130	0.062	69.012	0.001 ¹
T26	1095 - 1065	2L2x2 1/2x1/4x3/8	5'	5'	101.4	2.130	0.109	69.012	0.002 ¹
T27	1065 - 1057.5	2L2x2 1/2x1/4x3/8	5'	5'	101.4	2.130	0.159	69.012	0.002 ¹
T28	1057.5 - 1050	2L2x2 1/2x1/4x3/8	5'	5'	101.4	2.130	0.155	69.012	0.002 ¹
T29	1050 - 1042.5	2L2x2 1/2x1/4x3/8	5'	5'	101.4	2.130	0.012	69.012	0.000 ¹
T31	1035 - 1005	2L2x2 1/2x1/4x3/8	5'	5'	101.4	2.130	0.037	69.012	0.001 ¹
T32	1005 - 975	2L2x2 1/2x1/4x3/8	5'	5'	101.4	2.130	0.136	69.012	0.002 ¹
T33	975 - 945	2L2x2 1/2x1/4x3/8	5'	5'	101.4	2.130	0.092	69.012	0.001 ¹
T34	945 - 915	2L2x2 1/2x1/4x3/8	5'	5'	101.4	2.130	0.089	69.012	0.001 ¹
T35	915 - 885	2L2x2 1/2x1/4x3/8	5'	5'	101.4	2.130	0.132	69.012	0.002 ¹
T36	885 - 877.5	2L2x2 1/2x1/4x3/8	5'	5'	101.4	2.130	0.179	69.012	0.003 ¹
T37	877.5 - 870	2L2x2 1/2x1/4x3/8	5'	5'	101.4	2.130	0.174	69.012	0.003 ¹
T38	870 - 862.5	2L2x2 1/2x1/4x3/8	5'	5'	101.4	2.130	0.015	69.012	0.000 ¹
T40	855 - 825	2L2x2 1/2x1/4x3/8	5'	5'	101.4	2.130	0.043	69.012	0.001 ¹
T41	825 - 795	2L2x2 1/2x1/4x3/8	5'	5'	101.4	2.130	0.095	69.012	0.001 ¹
T42	795 - 765	2L2x2 1/2x1/4x3/8	5'	5'	101.4	2.130	0.040	69.012	0.001 ¹
T43	765 - 735	2L2x2 1/2x1/4x3/8	5'	5'	101.4	2.130	0.063	69.012	0.001 ¹
T44	735 - 705	2L2x2 1/2x1/4x3/8	5'	5'	101.4	2.130	0.120	69.012	0.002 ¹
T45	705 - 675	2L2x2 1/2x1/4x3/8	5'	5'	101.4	2.130	0.175	69.012	0.003 ¹
T46	675 - 645	2L2x2 1/2x1/4x3/8	5'	5'	101.4	2.130	0.217	69.012	0.003 ¹
T47	645 - 637.5	2L2x2 1/2x1/4x3/8	5'	5'	101.4	2.130	0.239	69.012	0.003 ¹
T48	637.5 - 630	2L2x2 1/2x1/4x3/8	5'	5'	101.4	2.130	0.036	69.012	0.001 ¹

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	Project 1620' GUYED TOWER	Date 11:40:25 11/02/18
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Section No.	Elevation ft	Size	L ft	L _u ft	Kl/r	A in ²	P _u K	φP _n K	Ratio $\frac{P_u}{\phi P_n}$
T50	622.5 - 615	2L2x2 1/2x1/4x3/8	5'	5'	101.4	2.130	0.053	69.012	0.001 ¹
T51	615 - 585	2L2x2 1/2x1/4x3/8	5'	5'	101.4	2.130	0.144	69.012	0.002 ¹
T52	585 - 555	2L2x2 1/2x1/4x3/8	5'	5'	101.4	2.130	0.108	69.012	0.002 ¹
T53	555 - 525	2L2x2 1/2x1/4x3/8	5'	5'	101.4	2.130	0.067	69.012	0.001 ¹
T54	525 - 495	2L2x2 1/2x1/4x3/8	5'	5'	101.4	2.130	0.033	69.012	0.000 ¹
T55	495 - 465	2L2x2 1/2x1/4x3/8	5'	5'	101.4	2.130	0.081	69.012	0.001 ¹
T56	465 - 435	2L2x2 1/2x1/4x3/8	5'	5'	101.4	2.130	0.132	69.012	0.002 ¹
T57	435 - 427.5	2L2x2 1/2x1/4x3/8	5'	5'	101.4	2.130	0.185	69.012	0.003 ¹
T58	427.5 - 420	2L2x2 1/2x1/4x3/8	5'	5'	101.4	2.130	0.157	69.012	0.002 ¹
T59	420 - 412.5	2L2x2 1/2x1/4x3/8	5'	5'	101.4	2.130	0.027	69.012	0.000 ¹
T61	405 - 375	2L2x2 1/2x1/4x3/8	5'	5'	101.4	2.130	0.072	69.012	0.001 ¹
T62	375 - 345	2L2x2 1/2x1/4x3/8	5'	5'	101.4	2.130	0.238	69.012	0.003 ¹
T63	345 - 315	2L2x2 1/2x1/4x3/8	5'	5'	101.4	2.130	0.184	69.012	0.003 ¹
T64	315 - 285	2L2x2 1/2x1/4x3/8	5'	5'	101.4	2.130	0.136	69.012	0.002 ¹
T65	285 - 255	2L2x2 1/2x1/4x3/8	5'	5'	101.4	2.130	0.074	69.012	0.001 ¹
T66	255 - 225	2L2x2 1/2x1/4x3/8	5'	5'	101.4	2.130	0.069	69.012	0.001 ¹
T67	225 - 195	2L2x2 1/2x1/4x3/8	5'	5'	101.4	2.130	0.133	69.012	0.002 ¹
T68	195 - 187.5	2L2x2 1/2x1/4x3/8	5'	5'	101.4	2.130	0.038	69.012	0.001 ¹
T70	180 - 172.5	2L2x2 1/2x1/4x3/8	5'	5'	101.4	2.130	0.026	69.012	0.000 ¹
T71	172.5 - 165	2L2x2 1/2x1/4x3/8	5'	5'	101.4	2.130	0.100	69.012	0.001 ¹
T72	165 - 135	2L2x2 1/2x1/4x3/8	5'	5'	101.4	2.130	0.089	69.012	0.001 ¹
T73	135 - 105	2L2x2 1/2x1/4x3/8	5'	5'	101.4	2.130	0.063	69.012	0.001 ¹
T74	105 - 75	2L2x2 1/2x1/4x3/8	5'	5'	101.4	2.130	0.116	69.012	0.002 ¹
T75	75 - 45	2L2x2 1/2x1/4x3/8	5'	5'	101.4	2.130	0.172	69.012	0.002 ¹
T76	45 - 37.5	2L2x2 1/2x1/4x3/8	5'	5'	101.4	2.130	0.208	69.012	0.003 ¹
T77	37.5 - 30	2L2x2 1/2x1/4x3/8	5'	5'	101.4	2.130	0.219	69.012	0.003 ¹

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	Client KLFY	Designed by M.C.

Section No.	Elevation ft	Size	L ft	L _u ft	Kl/r	A in ²	P _u K	φP _n K	Ratio $\frac{P_u}{\phi P_n}$
T78	30 - 22.5	L3x3x1/4	5'	5'	64.5	1.440	0.216	46.656	0.005 ¹ ✓
T79	22.5 - 15	L3x3x1/4	5'	5'	64.5	1.440	1.239	46.656	0.027 ¹ ✓

¹ P_u / φP_n controls

Top Guy Pull-Off Design Data (Tension)

Section No.	Elevation ft	Size	L ft	L _u ft	Kl/r	A in ²	P _u K	φP _n K	Ratio $\frac{P_u}{\phi P_n}$
T2	1612.5 - 1605	2C10x30x0.375	10'	4'9-1/2"	53.7	12.347	66.434	537.081	0.124 ¹ ✓
T10	1440 - 1432.5	2C8x13.75x0.375	10'	9'6-1/2"	118.9	5.662	70.734	246.311	0.287 ¹ ✓
T20	1230 - 1222.5	2C8x13.75x0.375	10'	9'6"	118.4	5.662	67.183	246.311	0.273 ¹ ✓
T29	1050 - 1042.5	2C8x13.75x0.375	10'	9'5-1/2"	117.9	8.080	64.311	261.792	0.246 ¹ ✓
T38	870 - 862.5	2C8x13.75x0.375	10'	9'5-1/2"	117.9	8.080	65.886	261.792	0.252 ¹ ✓
T48	637.5 - 630	2C8x13.75x0.375	10'	9'5"	117.4	8.080	69.426	261.792	0.265 ¹ ✓
T59	420 - 412.5	2C8x13.75x0.375	10'	9'4-1/2"	116.8	8.080	76.997	261.792	0.294 ¹ ✓
T68	195 - 187.5	2C8x13.75x0.375	10'	9'4-1/2"	116.8	8.080	57.993	261.792	0.222 ¹ ✓

¹ P_u / φP_n controls

Section Capacity Table

Section No.	Elevation ft	Component Type	Size	Critical Element	P K	φP _{allow} K	% Capacity	Pass Fail
T1	1620 - 1612.5	Leg	5	2	-108.810	604.822	18.0	Pass
		Diagonal	2L4x4x3/8x3/8	10	-11.115	164.682	6.7	Pass
		Top Girt	2C10x30x0.375	5	-6.963	406.152	15.6 (b) 1.7	Pass
T2	1612.5 - 1605	Leg	5	13	-164.455	604.822	27.2	Pass
		Diagonal	2L2 1/2x2 1/2x3/8x3/8	19	-15.735	59.010	26.7	Pass
		Inner Bracing	2L2x2 1/2x1/4x3/8	25	0.078	69.012	0.2	Pass
		Guy A@1612.5	2 3/8	2814	226.470	412.800	54.9	Pass
		Guy B@1612.5	2 3/8	2813	226.351	412.800	54.8	Pass
		Guy C@1612.5	2 3/8	2812	226.775	412.800	54.9	Pass
Top Guy	2C10x30x0.375	17	66.434	537.081	12.4	Pass		

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	Project 1620' GUYED TOWER	Date 11:40:25 11/02/18
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Section No.	Elevation ft	Component Type	Size	Critical Element	P K	ϕP_{allow} K	% Capacity	Pass Fail
		Pull-Off@1612.5					20.9 (b)	
T3	1605 - 1575	Leg	5	28	-168.152	604.822	27.8	Pass
		Diagonal	2L2 1/2x2 1/2x1/4x3/8	70	-12.308	40.007	30.8	Pass
		Horizontal	2L2 1/2x2 1/2x1/4x3/8	58	6.198	63.374	9.8	Pass
		Top Girt	2L2 1/2x2 1/2x1/4x3/8	31	7.925	63.374	12.5	Pass
							14.8 (b)	
		Inner Bracing	2L2x2 1/2x1/4x3/8	45	-0.011	51.912	0.2	Pass
T4	1575 - 1545	Leg	5	80	-203.790	604.822	33.7	Pass
		Diagonal	2L2 1/2x2 1/2x3/16x3/8	121	-7.760	29.959	25.9	Pass
		Horizontal	2L2 1/2x2 1/2x3/16x3/8	97	4.000	48.020	8.3	Pass
		Top Girt	2L2 1/2x2 1/2x3/16x3/8	82	4.299	48.020	9.0	Pass
							12.7 (b)	
		Inner Bracing	2L2x2 1/2x1/4x3/8	96	0.004	69.012	0.2	Pass
T5	1545 - 1515	Leg	5	131	-209.688	604.822	34.7	Pass
		Diagonal	2L2 1/2x2 1/2x3/16x3/8	141	-6.930	29.959	23.1	Pass
		Horizontal	2L2 1/2x2 1/2x3/16x3/8	151	4.116	48.020	8.6	Pass
		Top Girt	2L2 1/2x2 1/2x3/16x3/8	134	-2.051	52.921	3.9	Pass
							13.1 (b)	
		Inner Bracing	2L2x2 1/2x1/4x3/8	147	-0.009	51.912	0.2	Pass
T6	1515 - 1485	Leg	5	182	-204.842	604.822	33.9	Pass
		Diagonal	2L2 1/2x2 1/2x3/16x3/8	192	-11.197	29.959	37.4	Pass
		Horizontal	2L2 1/2x2 1/2x3/16x3/8	190	6.007	48.020	12.5	Pass
		Top Girt	2L2 1/2x2 1/2x3/16x3/8	185	4.231	48.020	8.8	Pass
							19.1 (b)	
		Inner Bracing	2L2x2 1/2x1/4x3/8	198	-0.016	51.912	0.2	Pass
T7	1485 - 1455	Leg	5	233	-268.464	604.822	44.4	Pass
		Diagonal	2L2 1/2x2 1/2x1/4x3/8	243	-15.352	40.007	38.4	Pass
		Horizontal	2L2 1/2x2 1/2x1/4x3/8	241	8.381	63.374	13.2	Pass
		Top Girt	2L2 1/2x2 1/2x1/4x3/8	236	6.614	63.374	10.4	Pass
							20.0 (b)	
		Inner Bracing	2L2x2 1/2x1/4x3/8	280	-0.120	51.912	0.2	Pass
T8	1455 - 1447.5	Leg	5 1/2	284	-292.861	781.596	37.5	Pass
		Diagonal	2L2 1/2x2 1/2x3/8x3/8	292	-16.587	59.553	27.9	Pass
		Top Girt	2L2 1/2x2 1/2x3/8x3/8	287	8.977	91.799	9.8	Pass
							14.3 (b)	
		Inner Bracing	2L2x2 1/2x1/4x3/8	295	-0.160	51.912	0.3	Pass
T9	1447.5 - 1440	Leg	5 1/2	299	-319.276	781.596	40.8	Pass
		Diagonal	2L2 1/2x2 1/2x3/8x3/8	307	-17.405	59.553	29.2	Pass
		Top Girt	2L2 1/2x2 1/2x3/8x3/8	302	9.663	91.799	10.5	Pass
							15.4 (b)	
		Inner Bracing	2L2x2 1/2x1/4x3/8	310	-0.165	51.912	0.3	Pass
T10	1440 - 1432.5	Leg	5 1/2	314	-322.663	781.596	41.3	Pass
		Diagonal	2L2 1/2x2 1/2x3/8x3/8	321	-34.878	59.553	58.6	Pass
		Inner Bracing	2L2x2 1/2x1/4x3/8	330	-0.015	51.912	0.2	Pass
		Guy A@1440	2 5/16	2817	214.566	392.400	54.7	Pass
		Guy B@1440	2 5/16	2816	214.583	392.400	54.7	Pass
		Guy C@1440	2 5/16	2815	214.879	392.400	54.8	Pass
		Top Guy	2C8x13.75x0.375	317	70.734	246.311	28.7	Pass
		Pull-Off@1440						
T11	1432.5 - 1425	Leg	5 1/2	332	-323.502	781.596	41.4	Pass
		Diagonal	2L2 1/2x2 1/2x3/8x3/8	334	-35.077	59.553	58.9	Pass
		Top Girt	2L2 1/2x2 1/2x3/8x3/8	322	0.346	91.799	0.4	Pass
							0.6 (b)	
T12	1425 - 1395	Leg	5 1/2	341	-351.320	781.596	44.9	Pass
		Diagonal	2L2 1/2x2 1/2x3/8x3/8	382	-15.515	59.553	26.1	Pass
		Horizontal	2L2 1/2x2 1/2x3/8x3/8	370	7.993	91.799	8.7	Pass

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Section No.	Elevation ft	Component Type	Size	Critical Element	P K	ϕP_{allow} K	% Capacity	Pass Fail
T13	1395 - 1365	Top Girt	2L2 1/2x2 1/2x3/8x3/8	343	18.506	91.799	12.7 (b) 20.2	Pass
		Inner Bracing	2L2x2 1/2x1/4x3/8	369	-0.020	51.912	29.5 (b) 0.2	Pass
		Leg	5 1/2	392	-398.213	781.596	50.9	Pass
		Diagonal	2L2 1/2x2 1/2x1/4x3/8	433	-10.341	40.371	25.6	Pass
		Horizontal	2L2 1/2x2 1/2x1/4x3/8	412	7.315	63.374	11.5	Pass
T14	1365 - 1335	Top Girt	2L2 1/2x2 1/2x1/4x3/8	394	5.735	63.374	17.5 (b) 9.0	Pass
		Inner Bracing	2L2x2 1/2x1/4x3/8	432	-0.013	51.912	13.7 (b) 0.2	Pass
		Leg	5 1/2	443	-421.023	781.596	53.9	Pass
		Diagonal	2L2 1/2x2 1/2x3/16x3/8	452	-5.637	30.228	18.6	Pass
		Horizontal	2L2 1/2x2 1/2x3/16x3/8	460	7.734	48.020	16.1	Pass
T15	1335 - 1305	Top Girt	2L2 1/2x2 1/2x3/16x3/8	445	2.887	48.020	24.6 (b) 6.0	Pass
		Inner Bracing	2L2x2 1/2x1/4x3/8	483	-0.004	51.912	9.2 (b) 0.2	Pass
		Leg	5 1/2	494	-422.105	781.596	54.0	Pass
		Diagonal	2L2 1/2x2 1/2x3/16x3/8	503	-9.804	30.228	32.4	Pass
		Horizontal	2L2 1/2x2 1/2x3/16x3/8	511	7.754	48.020	16.1	Pass
T16	1305 - 1275	Top Girt	2L2 1/2x2 1/2x3/16x3/8	497	3.506	48.020	24.7 (b) 7.3	Pass
		Inner Bracing	2L2x2 1/2x1/4x3/8	510	-0.014	51.912	11.2 (b) 0.2	Pass
		Leg	6	545	-407.877	977.888	41.7	Pass
		Diagonal	2L2 1/2x2 1/2x1/4x3/8	555	-14.370	40.741	35.3	Pass
		Horizontal	2L2 1/2x2 1/2x1/4x3/8	553	7.964	63.374	12.6	Pass
T17	1275 - 1245	Top Girt	2L2 1/2x2 1/2x1/4x3/8	548	5.992	63.374	19.0 (b) 9.5	Pass
		Inner Bracing	2L2x2 1/2x1/4x3/8	592	-0.106	51.912	14.3 (b) 0.2	Pass
		Leg	6	596	-468.926	977.888	48.0	Pass
		Diagonal	2L2 1/2x2 1/2x1/4x3/8	606	-18.782	40.741	46.1	Pass
		Horizontal	2L2 1/2x2 1/2x1/4x3/8	604	10.428	63.374	16.5	Pass
T18	1245 - 1237.5	Top Girt	2L2 1/2x2 1/2x1/4x3/8	599	8.622	63.374	24.9 (b) 13.6	Pass
		Inner Bracing	2L2x2 1/2x1/4x3/8	643	-0.146	51.912	20.6 (b) 0.3	Pass
		Leg	6	647	-488.314	977.888	49.9	Pass
		Diagonal	2L2 1/2x2 1/2x3/8x3/8	655	-20.264	60.103	33.7	Pass
		Top Girt	2L2 1/2x2 1/2x3/8x3/8	650	11.070	91.799	12.1	Pass
T19	1237.5 - 1230	Top Girt	2L2 1/2x2 1/2x3/8x3/8	659	-0.192	51.912	17.6 (b) 0.4	Pass
		Inner Bracing	2L2x2 1/2x1/4x3/8	662	-511.092	977.888	52.3	Pass
		Leg	6	670	-20.792	60.103	34.6	Pass
		Diagonal	2L2 1/2x2 1/2x3/8x3/8	665	11.672	91.799	12.7	Pass
T20	1230 - 1222.5	Top Girt	2L2 1/2x2 1/2x3/8x3/8	665	11.672	91.799	12.7	Pass
		Inner Bracing	2L2x2 1/2x1/4x3/8	673	-0.192	51.912	18.6 (b) 0.4	Pass
		Leg	6	677	-498.626	977.888	51.0	Pass
		Diagonal	2L2 1/2x2 1/2x3/8x3/8	684	-40.364	60.103	67.2	Pass
		Inner Bracing	2L2x2 1/2x1/4x3/8	691	-0.027	51.912	0.2	Pass
		Guy A@1230	2 1/8	2820	179.297	332.400	53.9	Pass
		Guy B@1230	2 1/8	2819	179.293	332.400	53.9	Pass
T21	1222.5 - 1215	Guy C@1230	2 1/8	2818	179.565	332.400	54.0	Pass
		Top Guy	2C8x13.75x0.375	680	67.183	246.311	27.3	Pass
		Pull-Off@1230						
		Leg	6	695	-499.612	977.888	51.1	Pass
		Diagonal	2L2 1/2x2 1/2x3/8x3/8	697	-40.460	60.103	67.3	Pass
		Top Girt	2L2 1/2x2 1/2x3/8x3/8	682	0.501	91.799	0.5	Pass

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Section No.	Elevation ft	Component Type	Size	Critical Element	P K	ϕP_{allow} K	% Capacity	Pass Fail
T22	1215 - 1185	Leg	6	704	-531.965	977.888	54.4	Pass
		Diagonal	2L2 1/2x2 1/2x3/8x3/8	745	-14.541	60.103	24.2	Pass
		Horizontal	2L2 1/2x2 1/2x3/8x3/8	709	9.214	91.799	10.0	Pass
		Top Girt	2L2 1/2x2 1/2x3/8x3/8	706	21.464	91.799	14.7 (b) 23.4	Pass
T23	1185 - 1155	Inner Bracing	2L2x2 1/2x1/4x3/8	744	-0.023	51.912	0.2	Pass
		Leg	6	754	-501.683	977.888	51.3	Pass
		Diagonal	2L2 1/2x2 1/2x1/4x3/8	796	-10.336	40.741	25.4	Pass
		Horizontal	2L2 1/2x2 1/2x1/4x3/8	778	8.689	63.374	13.7	Pass
T24	1155 - 1125	Top Girt	2L2 1/2x2 1/2x1/4x3/8	757	5.503	63.374	8.7	Pass
		Inner Bracing	2L2x2 1/2x1/4x3/8	804	-0.100	51.912	0.2	Pass
		Leg	6	805	-498.194	977.888	50.9	Pass
		Diagonal	2L2 1/2x2 1/2x3/8x3/8	847	-6.134	60.103	10.2	Pass
T25	1125 - 1095	Horizontal	2L2 1/2x2 1/2x3/16x3/8	811	8.629	48.020	18.0	Pass
		Top Girt	2L2 1/2x2 1/2x3/16x3/8	808	3.168	48.020	6.6	Pass
		Inner Bracing	2L2x2 1/2x1/4x3/8	855	-0.059	51.912	0.2	Pass
		Leg	6	856	-509.440	977.888	52.1	Pass
T26	1095 - 1065	Diagonal	2L2 1/2x2 1/2x3/8x3/8	867	-10.614	60.103	17.7	Pass
		Horizontal	2L2 1/2x2 1/2x3/8x3/8	874	8.824	91.799	9.6	Pass
		Top Girt	2L2 1/2x2 1/2x3/8x3/8	860	3.762	91.799	4.1	Pass
		Inner Bracing	2L2x2 1/2x1/4x3/8	906	-0.049	51.912	0.2	Pass
T27	1065 - 1057.5	Leg	6 1/2	907	-546.686	1193.230	45.8	Pass
		Diagonal	2L2 1/2x2 1/2x3/8x3/8	918	-15.375	60.660	25.3	Pass
		Horizontal	2L2 1/2x2 1/2x1/4x3/8	913	9.469	63.374	14.9	Pass
		Top Girt	2L2 1/2x2 1/2x1/4x3/8	911	6.536	63.374	10.3	Pass
T28	1057.5 - 1050	Inner Bracing	2L2x2 1/2x1/4x3/8	955	-0.109	51.912	0.2	Pass
		Leg	6 1/2	958	-558.734	1193.230	46.8	Pass
		Diagonal	2L2 1/2x2 1/2x3/8x3/8	967	-16.753	60.660	27.6	Pass
		Top Girt	2L2 1/2x2 1/2x3/8x3/8	962	9.129	91.799	9.9	Pass
T29	1050 - 1042.5	Inner Bracing	2L2x2 1/2x1/4x3/8	970	-0.159	51.912	0.3	Pass
		Leg	6 1/2	973	-572.065	1193.230	47.9	Pass
		Diagonal	2L2 1/2x2 1/2x3/8x3/8	982	-17.158	60.660	28.3	Pass
		Top Girt	2L2 1/2x2 1/2x3/8x3/8	977	9.767	91.799	10.6	Pass
T30	1042.5 - 1035	Inner Bracing	2L2x2 1/2x1/4x3/8	985	-0.155	51.912	0.3	Pass
		Leg	6 1/2	989	-535.552	1193.230	44.9	Pass
		Diagonal	2L2 1/2x2 1/2x3/8x3/8	996	-45.581	60.660	75.1	Pass
		Inner Bracing	2L2x2 1/2x1/4x3/8	1003	-0.022	51.912	0.2	Pass
		Guy A@1050	2	2823	148.169	294.000	50.4	Pass
		Guy B@1050	2	2822	148.024	294.000	50.3	Pass
		Guy C@1050	2	2821	148.389	294.000	50.5	Pass
Top Guy Pull-Off@1050	2C8x13.75x0.375	992	64.311	261.792	24.6	Pass		
T31	1035 - 1005	Leg	6 1/2	1007	-536.695	1193.230	45.0	Pass
		Diagonal	2L2 1/2x2 1/2x3/8x3/8	1009	-45.855	60.660	75.6	Pass
		Horizontal	2L2 1/2x2 1/2x3/8x3/8	994	0.695	91.799	0.8	Pass
							1.1 (b)	
							47.2	Pass
							30.7	Pass
							10.7	Pass
							15.6 (b)	

tnxTower TASHJIAN TOWERS CORP. 2765 S. TEMPERANCE AVE. FOWLER, CA. 93625 Phone: (559) 834-4300 FAX: (559) 834-4377	Job LAFAYETTE	Page 129 of 134
	Project 1620' GUYED TOWER	Date 11:40:25 11/02/18
	Client KLFY	Designed by M.C.

Section No.	Elevation ft	Component Type	Size	Critical Element	P K	ϕP_{allow} K	% Capacity	Pass Fail					
T32	1005 - 975	Top Girt	2L2 1/2x2 1/2x3/8x3/8	1018	24.249	91.799	26.4	Pass					
		Inner Bracing	2L2x2 1/2x1/4x3/8	6 1/2	1064	-0.033	51.912	38.6 (b)	0.2	Pass			
								Leg	1068	-575.056	1193.230	48.2	Pass
								Diagonal	1108	-14.247	60.660	23.5	Pass
								Horizontal	1087	9.960	63.374	15.7	Pass
T33	975 - 945	Top Girt	2L2 1/2x2 1/2x1/4x3/8	1069	7.657	63.374	23.8 (b)	12.1	Pass				
		Inner Bracing	2L2x2 1/2x1/4x3/8	6 1/2	1116	-0.136	51.912	18.3 (b)	0.3	Pass			
								Leg	1119	-578.717	1193.230	48.5	Pass
								Diagonal	1159	-9.414	30.776	30.6	Pass
								Horizontal	1138	10.024	48.020	20.9	Pass
T34	945 - 915	Top Girt	2L2 1/2x2 1/2x3/16x3/8	1120	4.973	48.020	31.9 (b)	10.4	Pass				
		Inner Bracing	2L2x2 1/2x1/4x3/8	6 1/2	1132	-0.015	51.912	15.8 (b)	0.2	Pass			
								Leg	1168	-565.650	1193.230	47.4	Pass
								Diagonal	1182	-12.994	30.776	42.2	Pass
								Horizontal	1174	9.797	48.020	20.4	Pass
T35	915 - 885	Top Girt	2L2 1/2x2 1/2x3/16x3/8	1173	5.976	48.020	31.2 (b)	12.4	Pass				
		Inner Bracing	2L2x2 1/2x1/4x3/8	6 1/2	1183	-0.022	51.912	19.0 (b)	0.2	Pass			
								Leg	1220	-572.694	1193.230	48.0	Pass
								Diagonal	1233	-17.282	60.660	28.5	Pass
								Horizontal	1225	9.919	63.374	15.7	Pass
T36	885 - 877.5	Top Girt	2L2 1/2x2 1/2x1/4x3/8	1224	8.281	63.374	23.7 (b)	13.1	Pass				
		Inner Bracing	2L2x2 1/2x1/4x3/8	6 1/2	1269	-0.132	51.912	19.8 (b)	0.3	Pass			
								Leg	1271	-587.068	1193.230	49.2	Pass
								Diagonal	1276	-18.765	60.660	30.9	Pass
								Top Girt	1273	10.220	91.799	11.1	Pass
T37	877.5 - 870	Top Girt	2L2 1/2x2 1/2x3/8x3/8	1282	-0.179	51.912	16.3 (b)	0.3	Pass				
		Inner Bracing	2L2x2 1/2x1/4x3/8	6 1/2	1286	-602.519	1193.230	50.5	Pass				
								Leg	1291	-19.094	60.660	31.5	Pass
								Diagonal	1291	-19.094	60.660	31.5	Pass
								Top Girt	1288	10.836	91.799	11.8	Pass
T38	870 - 862.5	Top Girt	2L2 1/2x2 1/2x3/8x3/8	1288	10.836	91.799	11.8	Pass					
		Inner Bracing	2L2x2 1/2x1/4x3/8	6 1/2	1297	-0.174	51.912	17.3 (b)	0.3	Pass			
								Leg	1300	-601.546	1170.630	51.4	Pass
								Diagonal	1308	-47.013	60.660	77.5	Pass
								Inner Bracing	1317	-0.015	51.912	0.2	Pass
		Guy A@870	2 1/8	2826	179.407	332.400	54.0	Pass					
		Guy B@870	2 1/8	2825	179.053	332.400	53.9	Pass					
		Guy C@870	2 1/8	2824	179.653	332.400	54.0	Pass					
Top Guy	2C8x13.75x0.375	1303	65.886	261.792	25.2	Pass							
T39	862.5 - 855	Pull-Off@870											
		Leg	6 1/2	1318	-602.664	1170.620	51.5	Pass					
		Diagonal	2L2 1/2x2 1/2x3/8x3/8	1321	-47.725	60.660	78.7	Pass					
T40	855 - 825	Top Girt	2L2 1/2x2 1/2x3/8x3/8	1306	0.783	91.799	0.9	Pass					
		Inner Bracing	2L2x2 1/2x1/4x3/8	6 1/2	1329	-667.543	1170.450	1.2 (b)	57.0	Pass			
								Leg	1372	-15.669	60.660	25.8	Pass
								Diagonal	1372	-15.669	60.660	25.8	Pass
								Horizontal	1336	11.562	91.799	12.6	Pass
Top Girt	2L2 1/2x2 1/2x3/8x3/8	1331	25.123	91.799	18.4 (b)	27.4	Pass						
T41	825 - 795	Inner Bracing	2L2x2 1/2x1/4x3/8	1366	-0.023	51.912	40.0 (b)	0.2	Pass				
		Leg	6 1/2	1380	-677.774	1170.510	57.9	Pass					

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Section No.	Elevation ft	Component Type	Size	Critical Element	P K	ϕP_{allow} K	% Capacity	Pass Fail	
T42	795 - 765	Diagonal	2L2 1/2x2 1/2x3/8x3/8	1423	-10.260	60.660	16.9	Pass	
		Horizontal	2L2 1/2x2 1/2x1/4x3/8	1387	11.739	63.374	18.5	Pass	
		Top Girt	2L2 1/2x2 1/2x1/4x3/8	1382	5.643	63.374	28.0 (b) 8.9	Pass	
		Inner Bracing Leg	2L2x2 1/2x1/4x3/8 6 1/2	1417 1431	-0.012 -685.610	51.912 1170.580	0.2 58.6	Pass Pass	
		Diagonal	2L2 1/2x2 1/2x3/16x3/8	1442	-4.944	30.776	16.1	Pass	
		Horizontal	2L2 1/2x2 1/2x3/16x3/8	1438	11.875	48.020	24.7	Pass	
		Top Girt	2L2 1/2x2 1/2x3/16x3/8	1433	2.458	48.020	37.8 (b) 5.1	Pass	
		Inner Bracing Leg	2L2x2 1/2x1/4x3/8 6 1/2	1468 1482	-0.002 -684.176	51.912 1170.410	0.2 58.5	Pass Pass	
		Diagonal	2L2 1/2x2 1/2x3/16x3/8	1488	-10.742	30.776	34.9	Pass	
		Horizontal	2L2 1/2x2 1/2x3/16x3/8	1504	11.850	48.020	24.7	Pass	
T43	765 - 735	Top Girt	2L2 1/2x2 1/2x3/16x3/8	1485	-3.662	53.192	37.7 (b) 6.9	Pass	
		Inner Bracing Leg	2L2x2 1/2x1/4x3/8 6 1/2	1528 1533	-0.062 -679.638	51.912 1170.010	0.2 58.1	Pass Pass	
		Diagonal	2L2 1/2x2 1/2x3/16x3/8	1539	-16.129	30.776	52.4	Pass	
		Horizontal	2L2 1/2x2 1/2x3/16x3/8	1555	11.772	48.020	24.5	Pass	
		Top Girt	2L2 1/2x2 1/2x3/16x3/8	1534	6.468	48.020	37.5 (b) 13.5	Pass	
		Inner Bracing Leg	2L2x2 1/2x1/4x3/8 6 1/2	1579 1584	-0.120 -708.359	51.912 1170.500	0.2 60.5	Pass Pass	
		Diagonal	2L2 1/2x2 1/2x3/8x3/8	1590	-21.416	60.660	35.3	Pass	
		Horizontal	2L2 1/2x2 1/2x1/4x3/8	1591	12.269	63.374	19.4	Pass	
		Top Girt	2L2 1/2x2 1/2x1/4x3/8	1585	9.652	63.374	29.3 (b) 15.2	Pass	
		T44	735 - 705	Inner Bracing Leg	2L2x2 1/2x1/4x3/8 6 1/2	1579 1584	-0.120 -708.359	51.912 1170.500	0.2 60.5
Diagonal	2L2 1/2x2 1/2x3/8x3/8			1590	-21.416	60.660	35.3	Pass	
Horizontal	2L2 1/2x2 1/2x1/4x3/8			1591	12.269	63.374	19.4	Pass	
Top Girt	2L2 1/2x2 1/2x1/4x3/8			1585	9.652	63.374	23.1 (b) 15.2	Pass	
Inner Bracing Leg	2L2x2 1/2x1/4x3/8 7			1630 1634	-0.175 -805.551	51.912 1373.440	0.3 58.7	Pass Pass	
Diagonal	2L2 1/2x2 1/2x3/8x3/8			1641	-26.292	61.226	42.9	Pass	
Horizontal	2L2 1/2x2 1/2x3/8x3/8			1639	14.180	91.799	15.4	Pass	
Top Girt	2L2 1/2x2 1/2x3/8x3/8			1636	12.330	91.799	22.6 (b) 13.4	Pass	
Inner Bracing Leg	2L2x2 1/2x1/4x3/8 7			1681 1685	-0.217 -836.265	51.912 1375.180	0.4 60.8	Pass Pass	
Diagonal	2L2 1/2x2 1/2x3/8x3/8			1691	-25.978	61.226	42.4	Pass	
T45	705 - 675	Top Girt	2L2 1/2x2 1/2x3/8x3/8	1687	14.692	91.799	16.0	Pass	
		Inner Bracing Leg	2L2x2 1/2x1/4x3/8 7	1696 1699	-0.239 -801.295	51.912 1403.000	0.5 57.1	Pass Pass	
		Diagonal	2L2 1/2x2 1/2x3/8x3/8	1710	-50.389	61.226	82.3	Pass	
		Inner Bracing	2L2x2 1/2x1/4x3/8	1716	-0.034	51.912	0.2	Pass	
		Guy A@637.5	2	2829	143.523	294.000	48.8	Pass	
		Guy B@637.5	2	2828	144.262	294.000	49.1	Pass	
		Guy C@637.5	2	2827	143.723	294.000	48.9	Pass	
		Top Guy	2C8x13.75x0.375	1704	69.426	261.792	26.5	Pass	
		Pull-Off@637.5							
		T49	630 - 622.5	Leg	7	1717	-802.584	1402.990	57.2
Diagonal	2L2 1/2x2 1/2x3/8x3/8			1722	-51.385	61.226	83.9	Pass	
Top Girt	2L2 1/2x2 1/2x3/8x3/8			1705	1.238	91.799	1.3	Pass	
T50	622.5 - 615	Leg	7	1726	-844.663	1402.110	60.2	Pass	
		Diagonal	2L2 1/2x2 1/2x3/8x3/8	1735	-16.962	61.226	27.7	Pass	
		Top Girt	2L2 1/2x2 1/2x3/8x3/8	1730	27.109	91.799	29.5	Pass	

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	Client KLFY	Designed by M.C.

Section No.	Elevation ft	Component Type	Size	Critical Element	P K	ϕP_{allow} K	% Capacity	Pass Fail
							43.2 (b)	
T51	615 - 585	Inner Bracing	2L2x2 1/2x1/4x3/8	1740	0.052	69.012	0.2	Pass
		Leg	7	1741	-827.826	1401.530	59.1	Pass
		Diagonal	2L2 1/2x2 1/2x3/8x3/8	1786	-16.076	61.226	26.3	Pass
		Horizontal	2L2 1/2x2 1/2x3/8x3/8	1747	14.338	91.799	15.6	Pass
		Top Girt	2L2 1/2x2 1/2x3/8x3/8	1745	9.194	91.799	10.0	Pass
							22.8 (b)	
							14.6 (b)	
T52	585 - 555	Inner Bracing	2L2x2 1/2x1/4x3/8	1790	-0.144	51.912	0.3	Pass
		Leg	7	1794	-782.157	1399.730	55.9	Pass
		Diagonal	2L2 1/2x2 1/2x1/4x3/8	1837	-11.662	41.495	28.1	Pass
		Horizontal	2L2 1/2x2 1/2x1/4x3/8	1816	13.547	63.374	21.4	Pass
		Top Girt	2L2 1/2x2 1/2x1/4x3/8	1796	6.448	63.374	10.2	Pass
							32.4 (b)	
							15.4 (b)	
T53	555 - 525	Inner Bracing	2L2x2 1/2x1/4x3/8	1840	-0.108	51.912	0.2	Pass
		Leg	7	1845	-773.688	1392.650	55.6	Pass
		Diagonal	2L2 1/2x2 1/2x3/16x3/8	1888	-7.244	31.056	23.3	Pass
		Horizontal	2L2 1/2x2 1/2x3/16x3/8	1852	13.401	48.020	27.9	Pass
		Top Girt	2L2 1/2x2 1/2x3/16x3/8	1847	3.999	48.020	8.3	Pass
							42.7 (b)	
							12.7 (b)	
T54	525 - 495	Inner Bracing	2L2x2 1/2x1/4x3/8	1884	-0.004	51.912	0.2	Pass
		Leg	7	1896	-782.826	1392.650	56.2	Pass
		Diagonal	2L2 1/2x2 1/2x3/16x3/8	1902	-6.824	31.056	22.0	Pass
		Horizontal	2L2 1/2x2 1/2x3/16x3/8	1903	13.559	48.020	28.2	Pass
		Top Girt	2L2 1/2x2 1/2x3/16x3/8	1899	1.963	48.020	4.1	Pass
							43.2 (b)	
							6.3 (b)	
T55	495 - 465	Inner Bracing	2L2x2 1/2x1/4x3/8	1911	-0.008	51.912	0.2	Pass
		Leg	7	1945	-805.829	1399.470	57.6	Pass
		Diagonal	2L2 1/2x2 1/2x1/4x3/8	1953	-11.519	41.495	27.8	Pass
		Horizontal	2L2 1/2x2 1/2x1/4x3/8	1951	13.957	63.374	22.0	Pass
		Top Girt	2L2 1/2x2 1/2x1/4x3/8	1948	4.319	63.374	6.8	Pass
							33.3 (b)	
							10.3 (b)	
T56	465 - 435	Inner Bracing	2L2x2 1/2x1/4x3/8	1995	-0.081	51.912	0.2	Pass
		Leg	7	1998	-847.375	1400.510	60.5	Pass
		Diagonal	2L2 1/2x2 1/2x3/8x3/8	2003	-17.564	61.226	28.7	Pass
		Horizontal	2L2 1/2x2 1/2x3/8x3/8	2017	14.677	91.799	16.0	Pass
		Top Girt	2L2 1/2x2 1/2x3/8x3/8	1999	7.100	91.799	7.7	Pass
							23.4 (b)	
							11.3 (b)	
T57	435 - 427.5	Inner Bracing	2L2x2 1/2x1/4x3/8	2046	-0.132	51.912	0.3	Pass
		Leg	7 1/2	2049	-865.726	1618.190	53.5	Pass
		Diagonal	2L2 1/2x2 1/2x3/8x3/8	2053	-19.012	61.799	30.8	Pass
		Top Girt	2L2 1/2x2 1/2x3/8x3/8	2050	10.120	91.799	11.0	Pass
							16.1 (b)	
T58	427.5 - 420	Inner Bracing	2L2x2 1/2x1/4x3/8	2059	-0.185	51.912	0.4	Pass
		Leg	7 1/2	2064	-885.643	1619.350	54.7	Pass
		Diagonal	2L2 1/2x2 1/2x3/8x3/8	2068	-17.820	61.799	28.8	Pass
		Top Girt	2L2 1/2x2 1/2x3/8x3/8	2065	10.409	91.799	11.3	Pass
							16.6 (b)	
T59	420 - 412.5	Inner Bracing	2L2x2 1/2x1/4x3/8	2076	-0.157	51.912	0.3	Pass
		Leg	7 1/2	2077	-819.334	1596.970	51.3	Pass
		Diagonal	2L2 1/2x2 1/2x3/8x3/8	2088	-64.016	64.912	98.6	Pass
		Inner Bracing	2L2x2 1/2x1/4x3/8	2092	-0.026	51.912	0.2	Pass
		Guy A@420	1 13/16	2832	129.199	242.400	53.3	Pass
		Guy B@420	1 13/16	2831	131.405	242.400	54.2	Pass
		Guy C@420	1 13/16	2830	129.263	242.400	53.3	Pass
Top Guy	2C8x13.75x0.375	2082	76.997	261.792	29.4	Pass		

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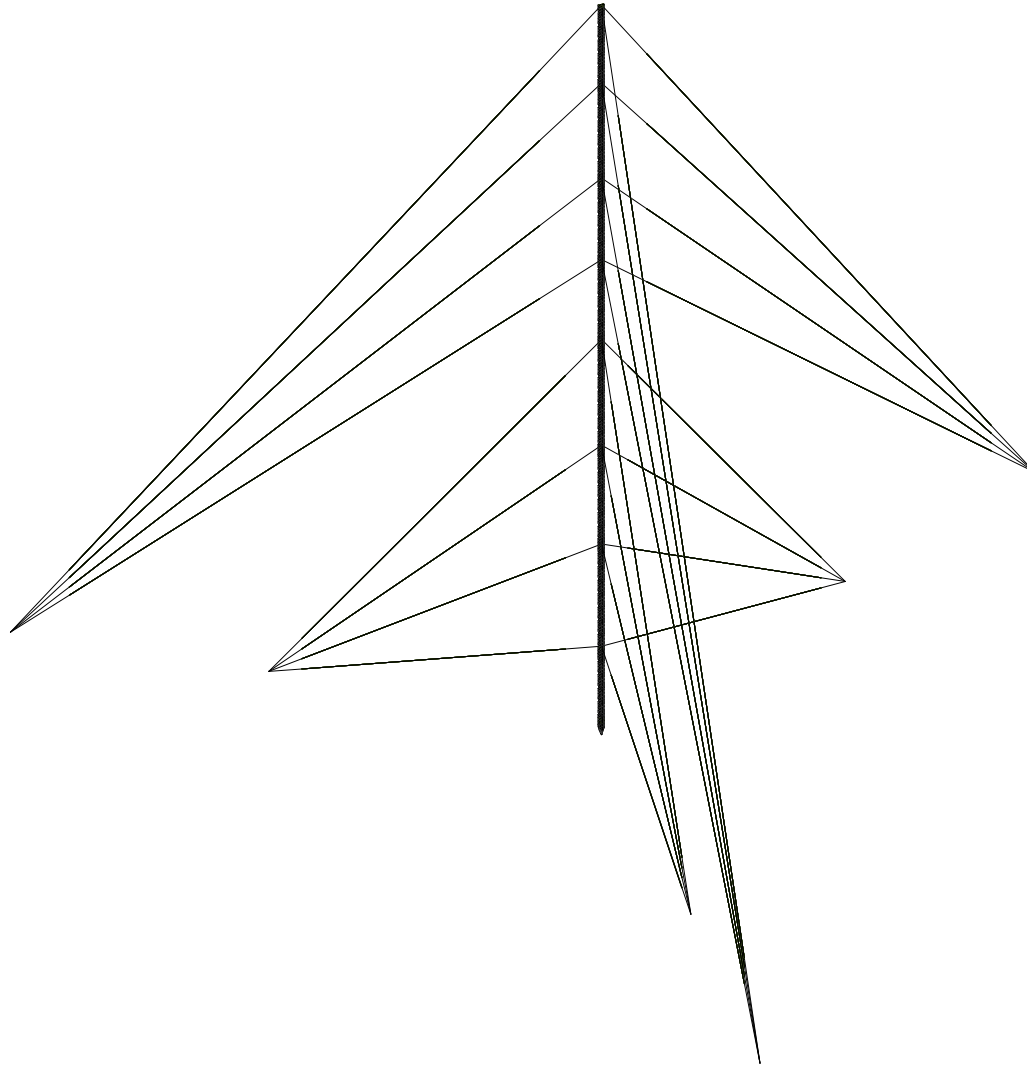
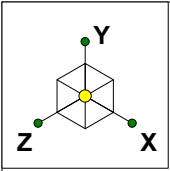
Section No.	Elevation ft	Component Type	Size	Critical Element	P K	ϕP_{allow} K	% Capacity	Pass Fail
T60	412.5 - 405	Pull-Off@420						
		Leg	7 1/2	2095	-820.805	1596.930	51.4	Pass
		Diagonal	2L2 1/2x2 1/2x3/8x3/8	2100	-66.099	64.912	101.8	Fail X
		Top Girt	2L2 1/2x2 1/2x3/8x3/8	2083	2.262	91.799	2.5	Pass
						3.6 (b)		
T61	405 - 375	Leg	7 1/2	2105	-861.260	1575.120	54.7	Pass
		Diagonal	2L2 1/2x2 1/2x3/8x3/8	2148	-30.652	61.799	49.6	Pass
		Horizontal	2L2 1/2x2 1/2x3/8x3/8	2140	16.466	91.799	17.9	Pass
		Top Girt	2L2 1/2x2 1/2x3/8x3/8	2108	34.667	91.799	37.8	Pass
								55.2 (b)
T62	375 - 345	Inner Bracing	2L2x2 1/2x1/4x3/8	2133	-0.043	51.912	0.2	Pass
		Leg	7 1/2	2156	-946.613	1600.380	59.1	Pass
		Diagonal	2L2 1/2x2 1/2x3/8x3/8	2202	-25.286	61.799	40.9	Pass
		Horizontal	2L2 1/2x2 1/2x3/8x3/8	2173	16.396	91.799	17.9	Pass
		Top Girt	2L2 1/2x2 1/2x3/8x3/8	2160	13.958	91.799	15.2	Pass
						22.2 (b)		
T63	345 - 315	Inner Bracing	2L2x2 1/2x1/4x3/8	2205	-0.238	51.912	0.5	Pass
		Leg	7 1/2	2207	-1038.230	1606.350	64.6	Pass
		Diagonal	2L2 1/2x2 1/2x3/16x3/8	2253	-19.561	31.339	62.4	Pass
		Horizontal	2L2 1/2x2 1/2x1/4x3/8	2212	17.983	63.374	28.4	Pass
		Top Girt	2L2 1/2x2 1/2x1/4x3/8	2211	10.869	63.374	17.2	Pass
						43.0 (b)		
T64	315 - 285	Inner Bracing	2L2x2 1/2x1/4x3/8	2255	-0.184	51.912	0.4	Pass
		Leg	7 1/2	2258	-1095.810	1609.370	68.1	Pass
		Diagonal	2L2 1/2x2 1/2x3/16x3/8	2304	-14.274	31.339	45.5	Pass
		Horizontal	2L2 1/2x2 1/2x3/16x3/8	2263	18.980	48.020	39.5	Pass
		Top Girt	2L2 1/2x2 1/2x3/16x3/8	2262	7.814	48.020	16.3	Pass
						60.4 (b)		
T65	285 - 255	Inner Bracing	2L2x2 1/2x1/4x3/8	2306	-0.136	51.912	0.3	Pass
		Leg	7 1/2	2309	-1116.250	1609.950	69.3	Pass
		Diagonal	2L2 1/2x2 1/2x3/16x3/8	2355	-7.795	31.339	24.9	Pass
		Horizontal	2L2 1/2x2 1/2x3/16x3/8	2314	19.334	48.020	40.3	Pass
		Top Girt	2L2 1/2x2 1/2x3/16x3/8	2313	4.171	48.020	8.7	Pass
						61.6 (b)		
T66	255 - 225	Inner Bracing	2L2x2 1/2x1/4x3/8	2358	-0.074	51.912	0.2	Pass
		Leg	7 1/2	2360	-1115.510	1609.740	69.3	Pass
		Diagonal	2L2 1/2x2 1/2x3/16x3/8	2366	-11.712	31.339	37.4	Pass
		Horizontal	2L2 1/2x2 1/2x3/16x3/8	2377	19.321	48.020	40.2	Pass
		Top Girt	2L2 1/2x2 1/2x3/16x3/8	2362	3.694	48.020	7.7	Pass
						61.5 (b)		
T67	225 - 195	Inner Bracing	2L2x2 1/2x1/4x3/8	2376	-0.016	51.912	0.2	Pass
		Leg	7 1/2	2411	-1089.460	1607.460	67.8	Pass
		Diagonal	2L2 1/2x2 1/2x3/16x3/8	2430	-17.171	31.339	54.8	Pass
		Horizontal	2L2 1/2x2 1/2x1/4x3/8	2416	18.870	63.374	29.8	Pass
		Top Girt	2L2 1/2x2 1/2x1/4x3/8	2413	7.308	63.374	11.5	Pass
						45.1 (b)		
T68	195 - 187.5	Inner Bracing	2L2x2 1/2x1/4x3/8	2458	-0.133	51.912	0.3	Pass
		Leg	7 1/2	2461	-1002.200	1671.860	59.9	Pass
		Diagonal	2L2 1/2x2 1/2x3/8x3/8	2474	-52.016	61.799	84.2	Pass
		Inner Bracing	2L2x2 1/2x1/4x3/8	2478	-0.031	51.912	0.2	Pass
		Guy A@195	1 1/4	2835	64.183	115.200	55.7	Pass
		Guy B@195	1 1/4	2834	64.944	115.200	56.4	Pass
		Guy C@195	1 1/4	2833	64.090	115.200	55.6	Pass
Top Guy	2C8x13.75x0.375	2464	57.993	261.792	22.2	Pass		

tnxTower TASHJIAN TOWERS CORP. 2765 S. TEMPERANCE AVE. FOWLER, CA. 93625 Phone: (559) 834-4300 FAX: (559) 834-4377	Job LAFAYETTE	Page 133 of 134
	Project 1620' GUYED TOWER	Date 11:40:25 11/02/18
	Client KLFY	Designed by M.C.

Section No.	Elevation ft	Component Type	Size	Critical Element	P K	ϕP_{allow} K	% Capacity	Pass Fail
T69	187.5 - 180	Pull-Off@195						
		Leg	7 1/2	2479	-1003.670	1671.860	60.0	Pass
		Diagonal	2L2 1/2x2 1/2x3/8x3/8	2487	-53.538	61.799	86.6	Pass
T70	180 - 172.5	Top Girt	2L2 1/2x2 1/2x3/8x3/8	2467	2.202	91.799	2.4	Pass
							3.5 (b)	
		Leg	7 1/2	2488	-1089.230	1671.880	65.2	Pass
T71	172.5 - 165	Diagonal	2L2 1/2x2 1/2x3/8x3/8	2498	-12.254	61.799	19.8	Pass
		Top Girt	2L2 1/2x2 1/2x3/8x3/8	2493	28.022	91.799	30.5	Pass
							44.6 (b)	
T72	165 - 135	Inner Bracing	2L2x2 1/2x1/4x3/8	2502	0.025	69.012	0.2	Pass
		Leg	7 1/2	2503	-1104.650	1671.970	66.1	Pass
		Diagonal	2L2 1/2x2 1/2x3/8x3/8	2513	-11.527	61.799	18.7	Pass
T73	135 - 105	Top Girt	2L2 1/2x2 1/2x3/8x3/8	2508	7.014	91.799	7.6	Pass
							11.2 (b)	
		Inner Bracing	2L2x2 1/2x1/4x3/8	2516	-0.100	51.912	0.2	Pass
T74	105 - 75	Leg	7 1/2	2518	-1146.310	1672.180	68.6	Pass
		Diagonal	2L2 1/2x2 1/2x3/16x3/8	2565	-9.582	31.339	30.6	Pass
		Horizontal	2L2 1/2x2 1/2x1/4x3/8	2524	19.855	63.374	31.3	Pass
T75	75 - 45	Top Girt	2L2 1/2x2 1/2x1/4x3/8	2523	5.394	63.374	8.5	Pass
							12.9 (b)	
		Inner Bracing	2L2x2 1/2x1/4x3/8	2559	-0.004	51.912	0.2	Pass
T76	45 - 37.5	Leg	7 1/2	2569	-1154.660	1672.180	69.1	Pass
		Diagonal	2L2 1/2x2 1/2x3/16x3/8	2576	-10.147	31.339	32.4	Pass
		Horizontal	2L2 1/2x2 1/2x3/16x3/8	2575	19.999	48.020	41.6	Pass
T77	37.5 - 30	Top Girt	2L2 1/2x2 1/2x3/16x3/8	2573	-3.629	53.371	6.8	Pass
							9.9 (b)	
		Inner Bracing	2L2x2 1/2x1/4x3/8	2586	-0.013	51.912	0.2	Pass
T78	30 - 22.5	Leg	7 1/2	2620	-1149.360	1672.110	68.7	Pass
		Diagonal	2L2 1/2x2 1/2x3/16x3/8	2627	-15.340	31.339	48.9	Pass
		Horizontal	2L2 1/2x2 1/2x3/16x3/8	2644	19.907	48.020	41.5	Pass
T79	22.5 - 15	Top Girt	2L2 1/2x2 1/2x3/16x3/8	2623	6.100	48.020	12.7	Pass
							63.4 (b)	
		Inner Bracing	2L2x2 1/2x1/4x3/8	2668	-0.116	51.912	0.2	Pass
T80	15 - 0	Leg	7 1/2	2671	-1114.220	1671.790	66.6	Pass
		Diagonal	2L2 1/2x2 1/2x3/8x3/8	2678	-20.601	61.799	33.3	Pass
		Horizontal	2L2 1/2x2 1/2x1/4x3/8	2695	19.299	63.374	30.5	Pass
T81	15 - 0	Top Girt	2L2 1/2x2 1/2x1/4x3/8	2674	9.420	63.374	14.9	Pass
							46.1 (b)	
		Inner Bracing	2L2x2 1/2x1/4x3/8	2719	-0.172	51.912	0.3	Pass
T82	15 - 0	Leg	7 1/2	2722	-1050.590	1671.230	62.9	Pass
		Diagonal	2L2 1/2x2 1/2x3/8x3/8	2728	-21.781	61.799	35.2	Pass
		Top Girt	2L2 1/2x2 1/2x3/8x3/8	2725	11.814	91.799	12.9	Pass
T83	15 - 0						18.8 (b)	
		Inner Bracing	2L2x2 1/2x1/4x3/8	2734	-0.208	51.912	0.4	Pass
		Leg	7 1/2	2737	-1029.110	1671.040	61.6	Pass
T84	15 - 0	Diagonal	2L2 1/2x2 1/2x3/8x3/8	2743	-23.851	63.739	37.4	Pass
		Top Girt	2C6x13x0.375	2740	-12.634	199.694	6.3	Pass
		Inner Bracing	2L2x2 1/2x1/4x3/8	2751	-0.219	51.912	0.4	Pass
T85	15 - 0	Leg	7 1/2	2752	-1001.080	1670.840	59.9	Pass
		Diagonal	2L2 1/2x2 1/2x3/8x3/8	2759	-28.593	61.799	46.3	Pass
		Top Girt	2C10x30x0.375	2755	13.349	537.081	9.7	Pass
T86	15 - 0	Inner Bracing	L3x3x1/4	2764	-0.216	31.873	0.7	Pass
		Leg	7 1/2	2768	-965.700	1668.380	57.9	Pass
		Diagonal	2L2 1/2x2 1/2x3/8x3/8	2775	-38.163	61.799	61.8	Pass
T87	15 - 0	Top Girt	2L2 1/2x2 1/2x3/8x3/8	2770	11.289	91.799	12.3	Pass
							18.0 (b)	
		Redund Vert Bracing	2L2 1/2x2 1/2x3/8x3/8	2774	-0.408	68.806	0.6	Pass
T88	15 - 0	Inner Bracing	L3x3x1/4	2787	1.239	46.656	2.7	Pass
		Leg	7 1/2	2791	-1035.930	1693.970	66.3	Pass

tnxTower TASHJIAN TOWERS CORP. 2765 S. TEMPERANCE AVE. FOWLER, CA. 93625 Phone: (559) 834-4300 FAX: (559) 834-4377	Job	LAFAYETTE	Page	134 of 134
	Project	1620' GUYED TOWER	Date	11:40:25 11/02/18
	Client	KLFY	Designed by	M.C.

Section No.	Elevation ft	Component Type	Size	Critical Element	P K	ϕP_{allow} K	% Capacity	Pass Fail
		Diagonal	L4x4x1/2	2798	-47.136	110.250	42.8	Pass
		Horizontal	2L4x4x1/2x3/8	2794	35.926	207.984	66.7 (b) 17.3	Pass
		Top Girt	213x13x3/4x1/2	2773	227.816	1168.380	40.1 (b) 19.5	Pass
							38.0 (b)	
							Summary	
						Leg (T65)	69.3	Pass
						Diagonal (T60)	101.8	Fail X
						Horizontal (T73)	63.7	Pass
						Top Girt (T61)	55.2	Pass
						Redund Vert Bracing (T79)	0.6	Pass
						Inner Bracing (T79)	2.7	Pass
						Guy A (T68)	55.7	Pass
						Guy B (T68)	56.4	Pass
						Guy C (T68)	55.6	Pass
						Top Guy Pull-Off (T59)	29.4	Pass
						Bolt Checks	83.1	Pass
						RATING =	101.8	Fail X

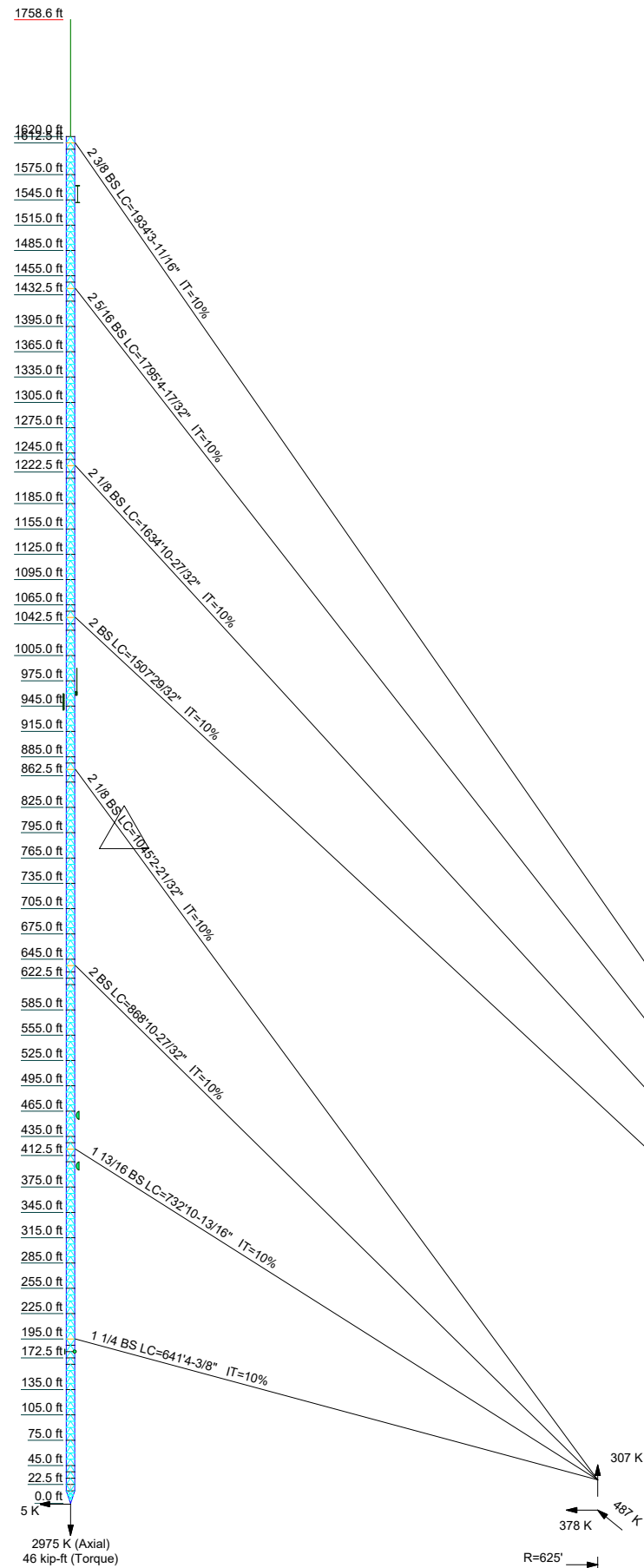


TASHJIAN TOWERS CORP.
M.C.
1620' GUYED TOWER

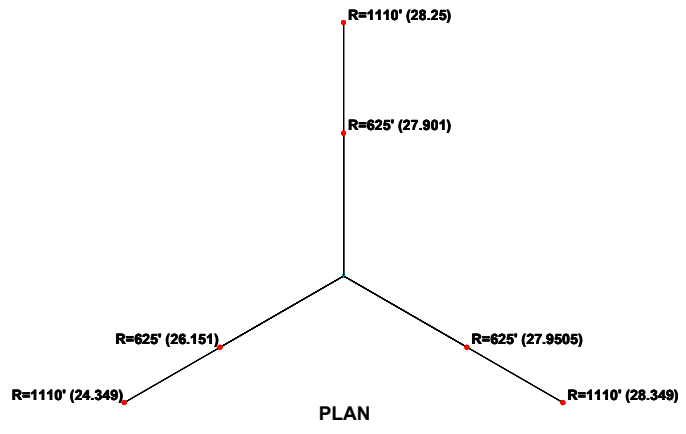
LAFAYETTE

SK - 4
Nov 2, 2018 at 11:10 AM
1620' GUYED TOWER (1) - LAFAYETTE.rt3

Section	SR 5	SR 5 1/2	SR 6	SR 6 1/2	SR 7	SR 7 1/2
Legs	A572-50					
Leg Grade	A36					
Diagonals	C	C	C	D	B	D
Diagonal Grade	N.A.					
Top Girts	C	C	C	C	C	C
Horizontals	C	C	C	C	C	C
Red. Verticals	N.A.					
Inner Bracing	C	C	C	C	C	C
Top Guy Pull-Offs	N.A.					
Face Width (ft)	10					
# Panels @ (ft)	214 @ 7.5					
Weight (K)	802.3	802.3	802.3	802.3	802.3	802.3



ALL REACTIONS ARE FACTORED



DESIGNED APPURTENANCE LOADING

TYPE	ELEVATION	TYPE	ELEVATION
Side Mount Standoff (1)	1562	10' GRID DISH	460
KL PB DIELECTRIC ANTENNA	1552	10' RFS DISH	400
Side Mount Standoff (1)	1542	PANEL ANTENNA	180
30' WHIP ANTENNA	960	MICROWAVE DISH	180
Side Mount Standoff (1)	960	GPS	16
ERI 12 BAY FM ANTENNA	950		

SYMBOL LIST

MARK	SIZE	MARK	SIZE
A	2L4x4x3/8x3/8	H	2C6x13x0.375
B	2L2 1/2x2 1/2x3/8x3/8	I	213x13x3/4x1/2
C	2L2 1/2x2 1/2x1/4x3/8	J	2L4x4x1/2x3/8
D	2L2 1/2x2 1/2x3/16x3/8	K	L3x3x1/4
E	L4x4x1/2	L	2C8x13.75x0.375
F	2C10x30x0.375	M	3 @ 5
G	N.A.		

MATERIAL STRENGTH

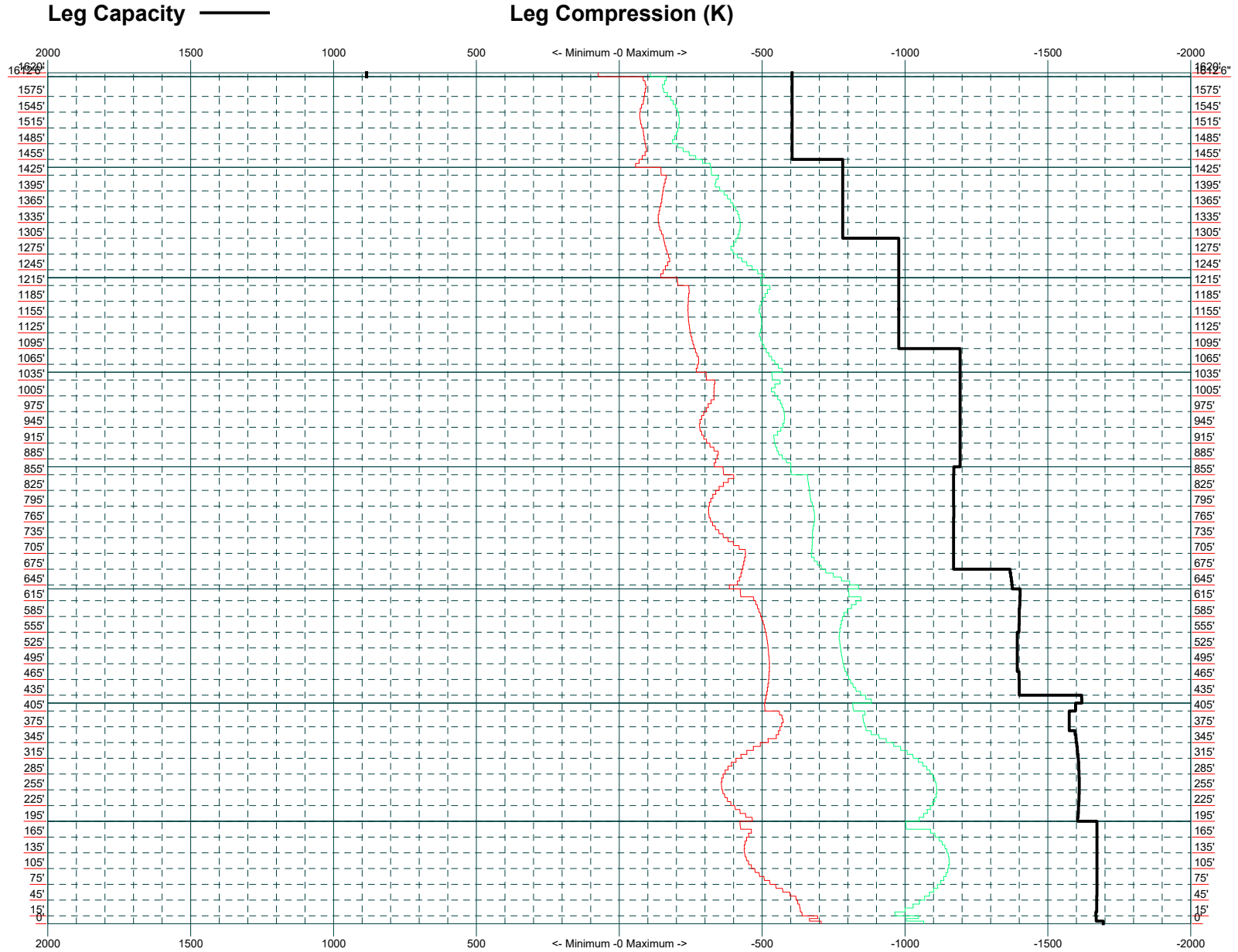
GRADE	Fy	Fu	GRADE	Fy	Fu
A572-50	50 ksi	65 ksi	A36	36 ksi	58 ksi

TOWER DESIGN NOTES

- Tower designed for Exposure C to the TIA-222-H Standard.
- Tower designed for a 127 mph basic wind in accordance with the TIA-222-H Standard.
- Tower is also designed for a 30 mph basic wind with 1.00 in ice. Ice is considered to increase in thickness with height.
- Deflections are based upon a 60 mph wind.
- Tower Risk Category II.
- Topographic Category 1 with Crest Height of 0'
- Force Couples (top of tower)
- RCA TW-12A10_TAD-24UDE-5/60-MRST (DIELECTRIC DELTA STAR ANTENNA)
A: 41.700 K, H: 17.400 K, M: 794.700 kip-ft
Service-A: 41.700 K, H: 3.900 K, M: 177.400 kip-ft
- TOWER RATING: 101.8%

TASHJIAN TOWERS CORP.		
2765 S. TEMPERANCE AVE.		
FOWLER, CA. 93625		
Phone: (559) 834-4300		
FAX: (559) 834-4377		
Job: LAFAYETTE	Project: 1620' GUYED TOWER	
Client: KLFY	Drawn by: M.C.	App'd:
Code: TIA-222-H	Date: 11/02/18	Scale: NTS
Path: z:\karr\ERI\1620' GUYED TOWER (1) - LAFAYETTE.en	Dwg No. E-1	

TIA-222-H - 127 mph/30 mph 1.000 in Ice Exposure C



TASHJIAN TOWERS CORP.		Job: LAFAYETTE	
2765 S. TEMPERANCE AVE.		Project: 1620' GUYED TOWER	
FOWLER, CA. 93625	Client: KLFY	Drawn by: M.C.	App'd:
Phone: (559) 834-4300	Code: TIA-222-H	Date: 11/02/18	Scale: NTS
FAX: (559) 834-4377	Path: Z:\kari\ERI\1620' GUYED TOWER (1) - LAFAYETTE.eri	Dwg No. E-3	

Vx

Vz

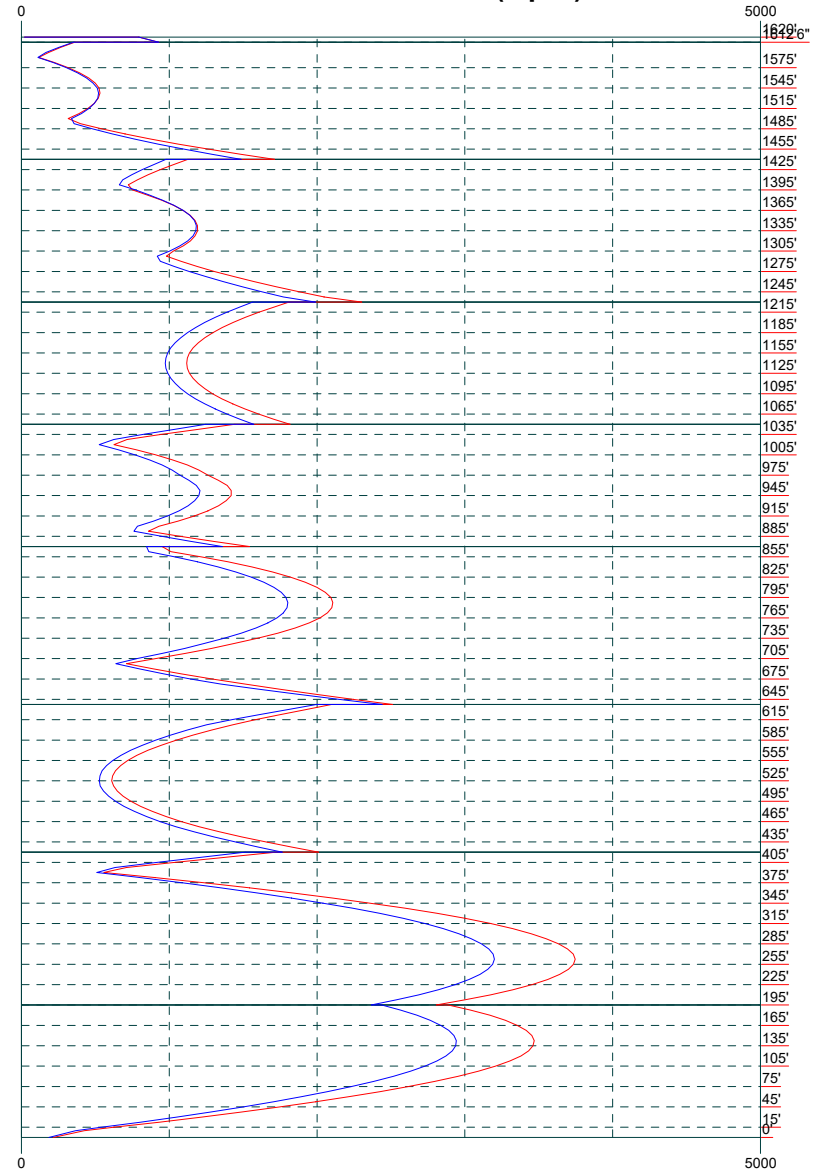
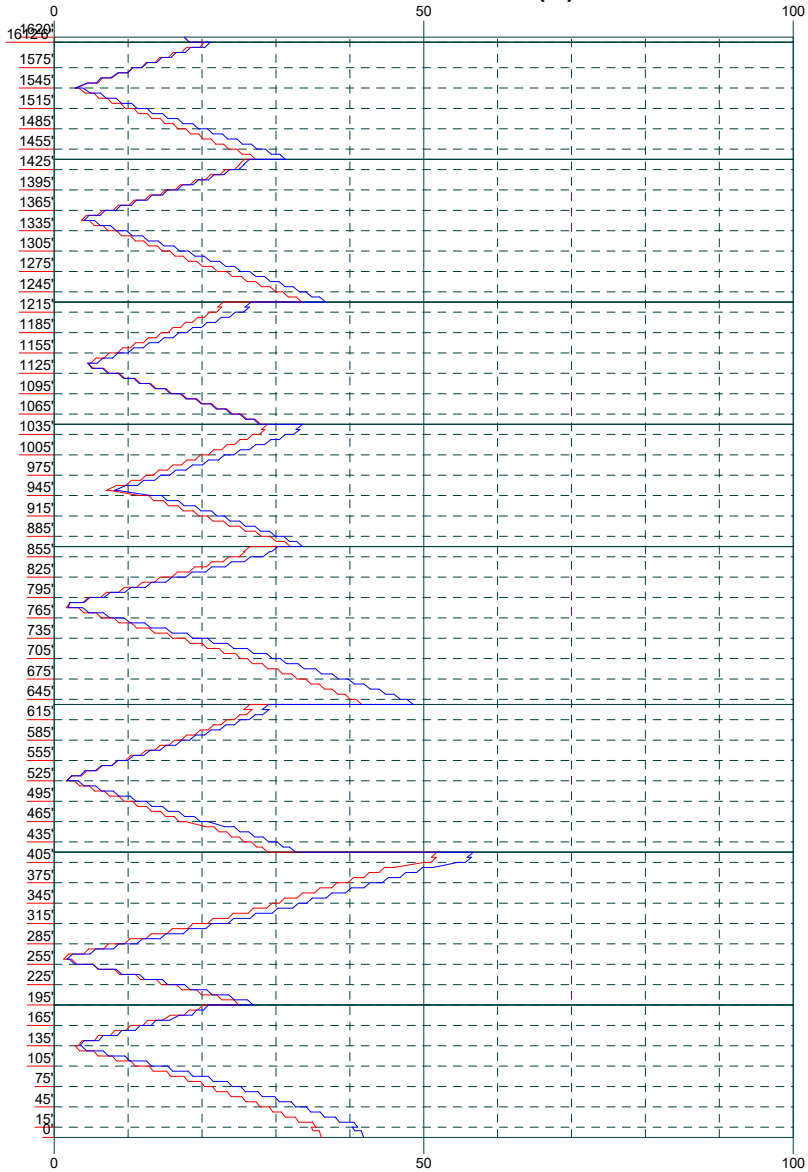
Mx

Mz

Global Mast Shear (K)

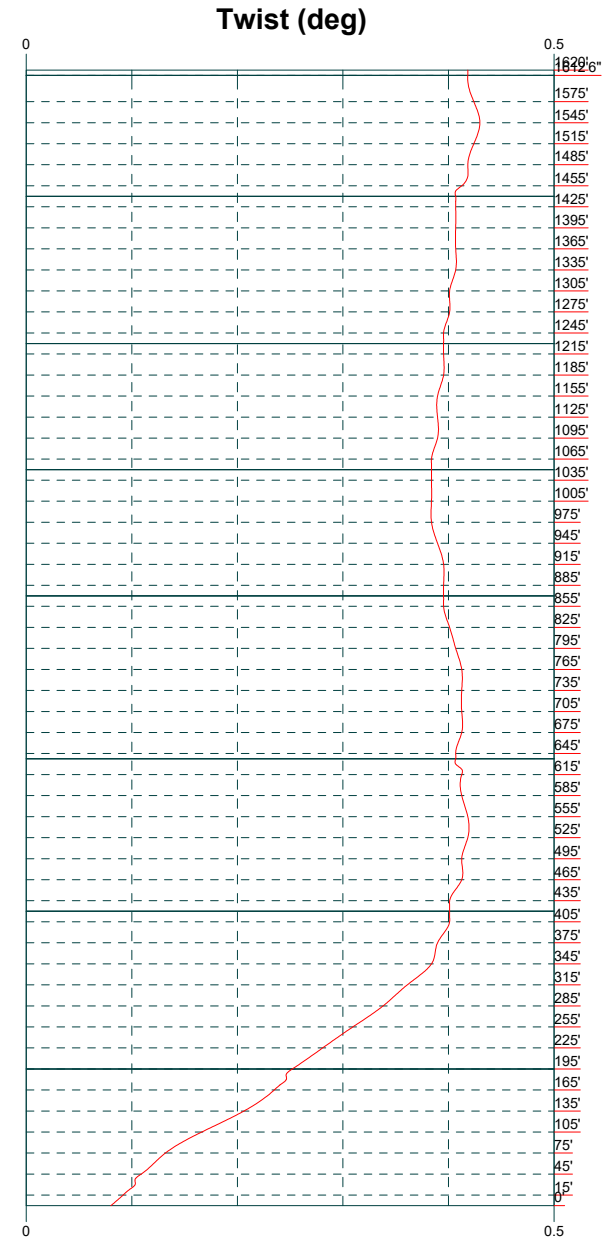
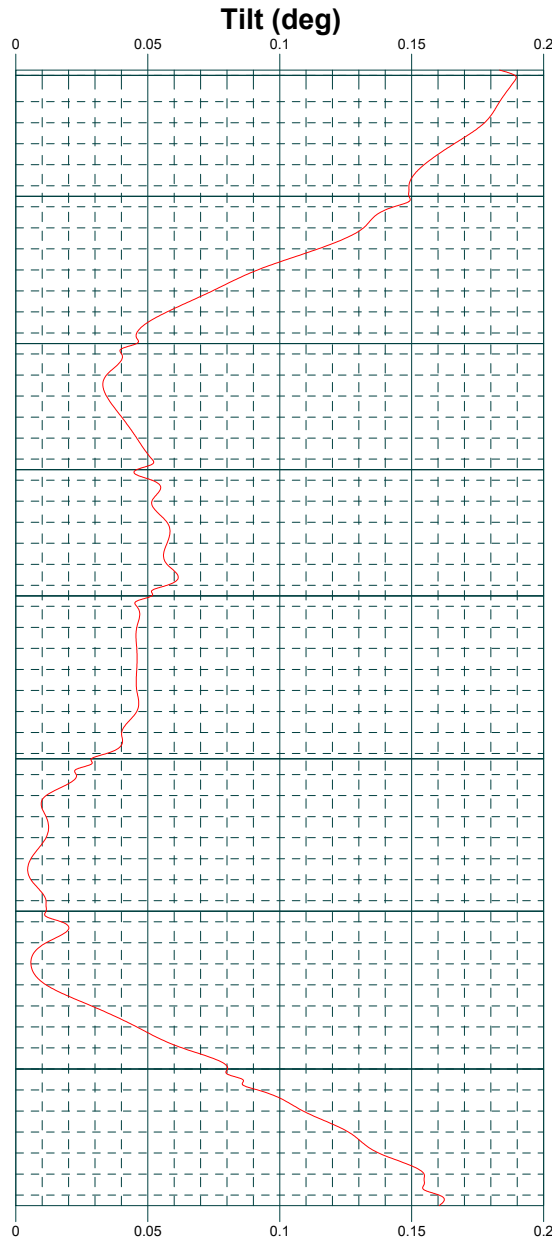
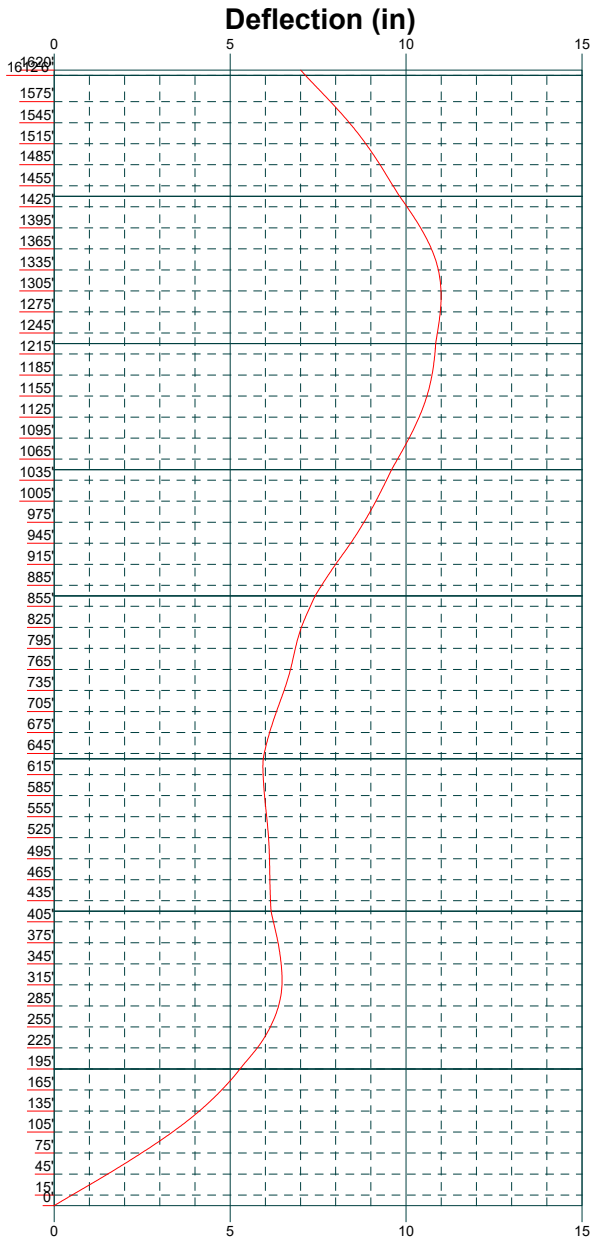
Global Mast Moment (kip-ft)

Elevation (ft)



TASHJIAN TOWERS CORP.		Job: LAFAYETTE	
2765 S. TEMPERANCE AVE.		Project: 1620' GUYED TOWER	
FOWLER, CA. 93625		Client: KLFY	Drawn by: M.C.
Phone: (559) 834-4300		Code: TIA-222-H	Date: 11/02/18
FAX: (559) 834-4377		Path: Z:\kari\ERI\1620' GUYED TOWER (1) - LAFAYETTE.eri	Scale: NTS
			Dwg No. E-4

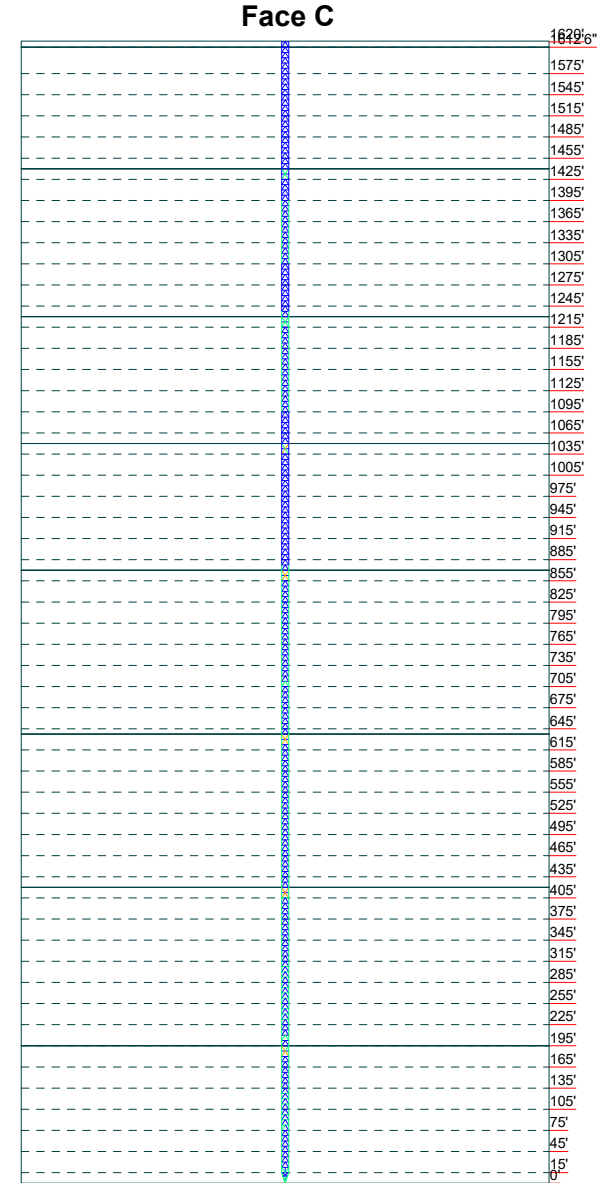
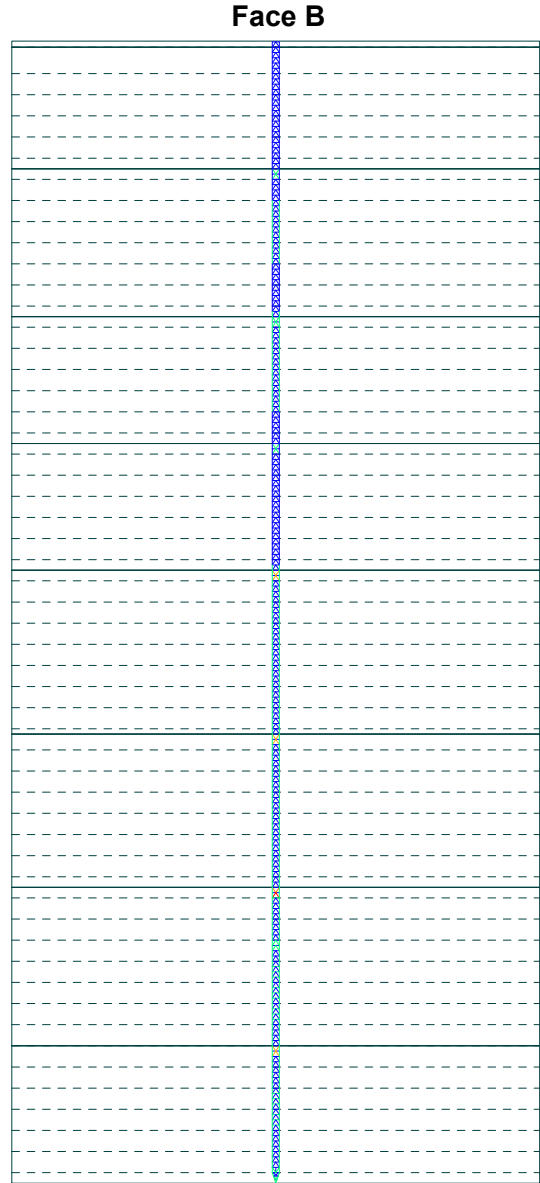
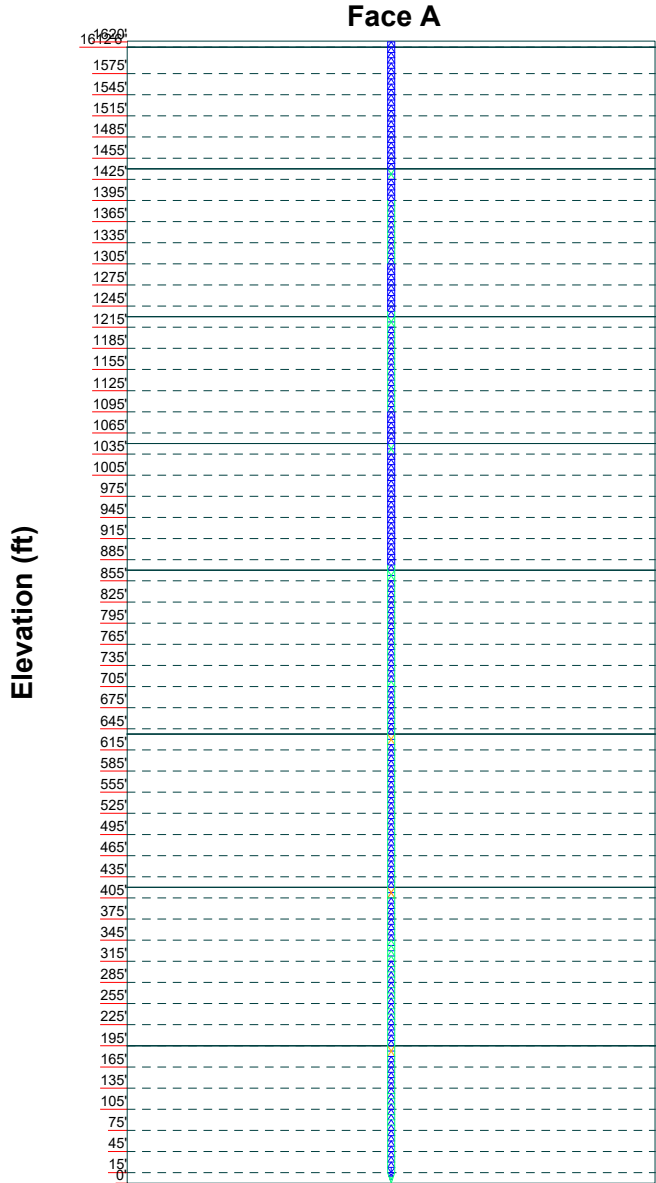
Elevation (ft)



TASHJIAN TOWERS CORP.		Job: LAFAYETTE	
2765 S. TEMPERANCE AVE.		Project: 1620' GUYED TOWER	
FOWLER, CA. 93625		Client: KLFY	Drawn by: M.C.
Phone: (559) 834-4300		Code: TIA-222-H	Date: 11/02/18
FAX: (559) 834-4377		Path: Z:\kari\ERI\1620' GUYED TOWER (1) - LAFAYETTE.eri	Scale: NTS
			Dwg No. E-5

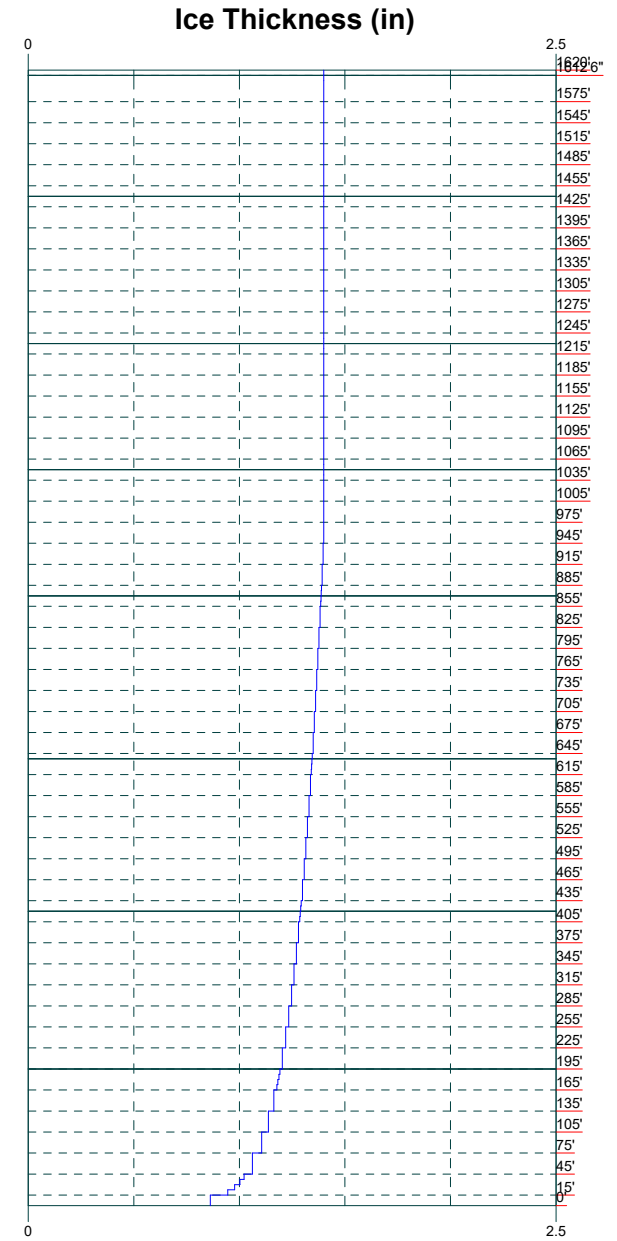
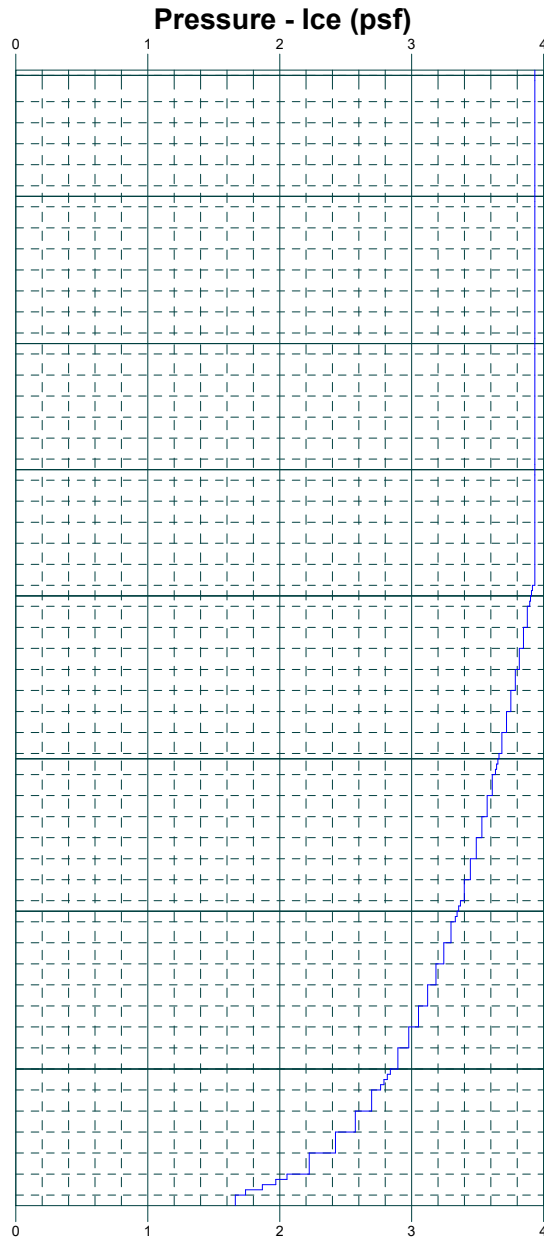
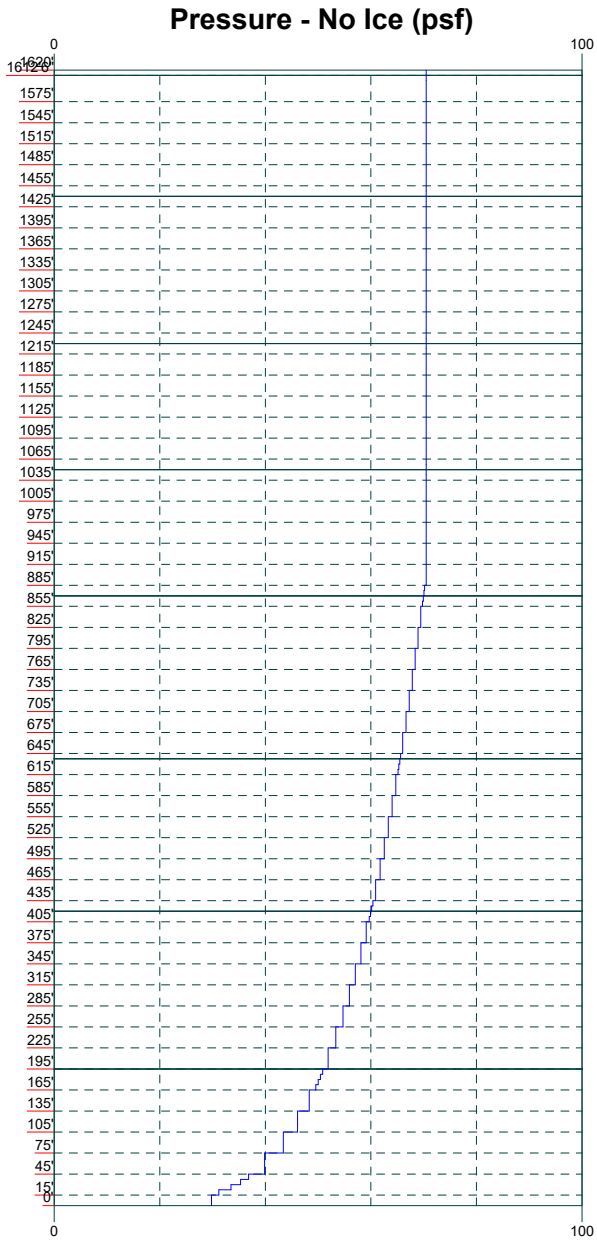
Stress Distribution Chart 0' - 1620'

■ > 100%
 ■ 90%-100%
 ■ 75%-90%
 ■ 50%-75%
 ■ < 50% Overstress



TASHJIAN TOWERS CORP.		Job: LAFAYETTE	
2765 S. TEMPERANCE AVE.		Project: 1620' GUYED TOWER	
FOWLER, CA. 93625	Client: KLFY	Drawn by: M.C.	App'd:
Phone: (559) 834-4300	Code: TIA-222-H	Date: 11/02/18	Scale: NTS
FAX: (559) 834-4377	Path: Z:\Karl\ERI\1620' GUYED TOWER (1) - LAFAYETTE.eri	Dwg No. E-8	

Wind Pressures and Ice Thickness
TIA-222-H - 127 mph/30 mph 1.000 in Ice Exposure C



TASHJIAN TOWERS CORP.		Job: LAFAYETTE	
2765 S. TEMPERANCE AVE.		Project: 1620' GUYED TOWER	
FOWLER, CA. 93625	Phone: (559) 834-4300	Drawn by: M.C.	App'd:
FAX: (559) 834-4377		Code: TIA-222-H	Date: 11/02/18
		Path: Z:\kari\ERI\1620' GUYED TOWER (1) - LAFAYETTE.eri	Scale: NTS
			Dwg No. E-9