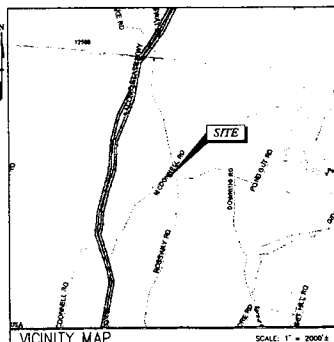


EXHIBIT E

NEXTEL OF NEW YORK INC.

DBA NEXTEL COMMUNICATIONS

SITE NUMBER:
NY-2296



OWNERS CONSENT

THE UNDERSIGNED OWNER OF PROPERTY HEREON STATES THAT HE IS FAMILIAR WITH THIS MAP, ITS CONTENTS, AND ITS LEGEND AND HEREBY CONSENTS TO ALL SET TERMS AND CONDITIONS AS STATED HEREON.

SIGNED ON _____
SIGNATURE _____

SITE NAME:	LAGRANGE ORTH
SITE NUMBER:	NY-2296
SITE ADDRESS:	CON-ED TOWER L-17 POUGHKEEPSIE ROAD LAGRANGE, NY
PROPERTY OWNER:	CONSOLIDATED EDISON CO. OF NEW YORK 4 NEW YORK PL. ROOM 211 NEW YORK, NY 10003
APPLICANT:	NEXTEL OF NEW YORK INC. DBA NEXTEL COMMUNICATIONS ONE NORTH BROADWAY WHITE PLAINS, NEW YORK 10601
JURISDICTION:	VILL OF LAGRANGE
CURRENT ZONING:	80. RESIDENTIAL
SECTION, BLOCK & LOT:	SECTION 8562, BLOCK 01, LOT 208007
QUADRANGLE MAP:	PLEASANT VALLEY
COUNTY:	DUTCHESS
DECLINATION:	13 1/2° E
LATITUDE (NAD 27):	41° 47' 21" N
LONGITUDE (NAD 27):	73° 48' 27" W

PROJECT INDEX

NEXTEL CONTACT:	NUCK WHITE (914) 448-4380
ZONING CONTACT:	SUE BELLON (914) 421-2771
SITE CONTACT:	ROB FLOCK (REAL ESTATE) (212) 460-4089
TOWN OF LAGRANGE:	RON CHARLTON (CONSTRUCTION REP) (914) 489-6660
ELECTRIC COMP.:	CENTRAL HUDSON GAS AND ELECTRIC TOWN EASTWOOD (914) 452-2300
TELEPHONE COMPANY:	VERIZON (914) 850-7100

PROJECT CONTACTS

INSTALLATION OF SIX (6) PANEL ANTENNAS MOUNTED ON THE EXISTING TRANSFORMER TOWER AND A 200 LB UNMOUNTED EQUIPMENT SHELF AT GRADE.

PROJECT DESCRIPTION

SHEET NO.	DESCRIPTION	REV NO.	RELEASE DATE
T-1	TITLE SHEET	0	12/10/01
C-1	PLOT PLAN	0	12/10/01
C-2	PARTIAL SITE PLAN, SETBACK MAP & AC/CE	0	12/10/01
C-3	SITE DETAIL PLAN & DETAILS	7	12/10/01
C-4	FOUNDATION PLAN, DETAILS & NOTES	1	12/10/01
E-1	ELEVATION & DETAILS	7	12/10/01
E-2	ANTENNA MOUNT & DETAILS	1	12/10/01
E-3	ELECTRICAL PLAN, ELEVATION & NOTES	1	12/10/01
E-4	ELECTRICAL DETAILS	1	12/10/01
E-5	GROUNDING PLAN, DETAILS & NOTES	1	12/10/01

SHEET INDEX

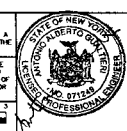
THIS SET OF PLANS SHALL NOT BE UTILIZED AS CONSTRUCTION DOCUMENTS UNTIL ALL ITEMS OF CONCERN HAVE BEEN ADDRESSED AND EACH OF THE DRAWINGS HAS BEEN REVISED AND ISSUED FOR CONSTRUCTION.

APPROVAL BOX

UNAUTHORISED ALTERATION OR ADDITION TO A DOCUMENT BEARING THE SEAL OF A LICENSED PROFESSIONAL ENGINEER OR LAND SURVEYOR IS A VIOLATION OF SECTION 2209 SUBSECTION 2 OF THE NEW YORK STATE EDUCATION LAW.

COPIES OF THIS DOCUMENT WITHOUT A FACSIMILE OF THE SIGNATURE AND AN ORIGINAL EMBOSSED SEAL OF ORIGINAL STAMP IN BLUE OR RED INK OF THE PROFESSIONAL ENGINEER OR LAND SURVEYOR SHALL NOT BE CONSIDERED VALID COPIES.

ORIGINAL SIZE IN INCHES



TECTONIC ENGINEERING CONSULTANTS P.C.

840 LITTLE BROWN ROAD
NEW BRUNSWICK, NEW JERSEY 07033
(908) 987-8850

NEXTEL

PROJECT NUMBER 1170.2296

DRAWN BY JAC

NO.	DATE	ISSUE
0	6/12/00	FOR COMMENT
1	7/18/00	FOR APPROVAL
2	7/19/00	PER COMMENTS
3	8/13/00	REVISED ANTENNA HEIGHT
4	11/30/00	PER TOWN'S COMMENTS
5	7/11/01	ADDED APPROVAL BOX
6	8/22/01	PER TOWN'S COMMENT
7	10/2/01	PER LAWYER'S COMMENT
8	12/3/01	FOR REVIEW
9	12/10/01	FOR PERMIT

RELEASED BY Andy Ratto DATE 12/14/01

APPROVALS

CONSTRUCTION DATE: _____
LEASING DATE: _____
RF DATE: _____
ZONING DATE: _____
OWNER DATE: _____
NETWORK ENG. DATE: _____

NY-2296
LAGRANGE NORTH
CON-ED TOWER L-17
ROSSWAY ROAD
LAGRANGE, NY
12569

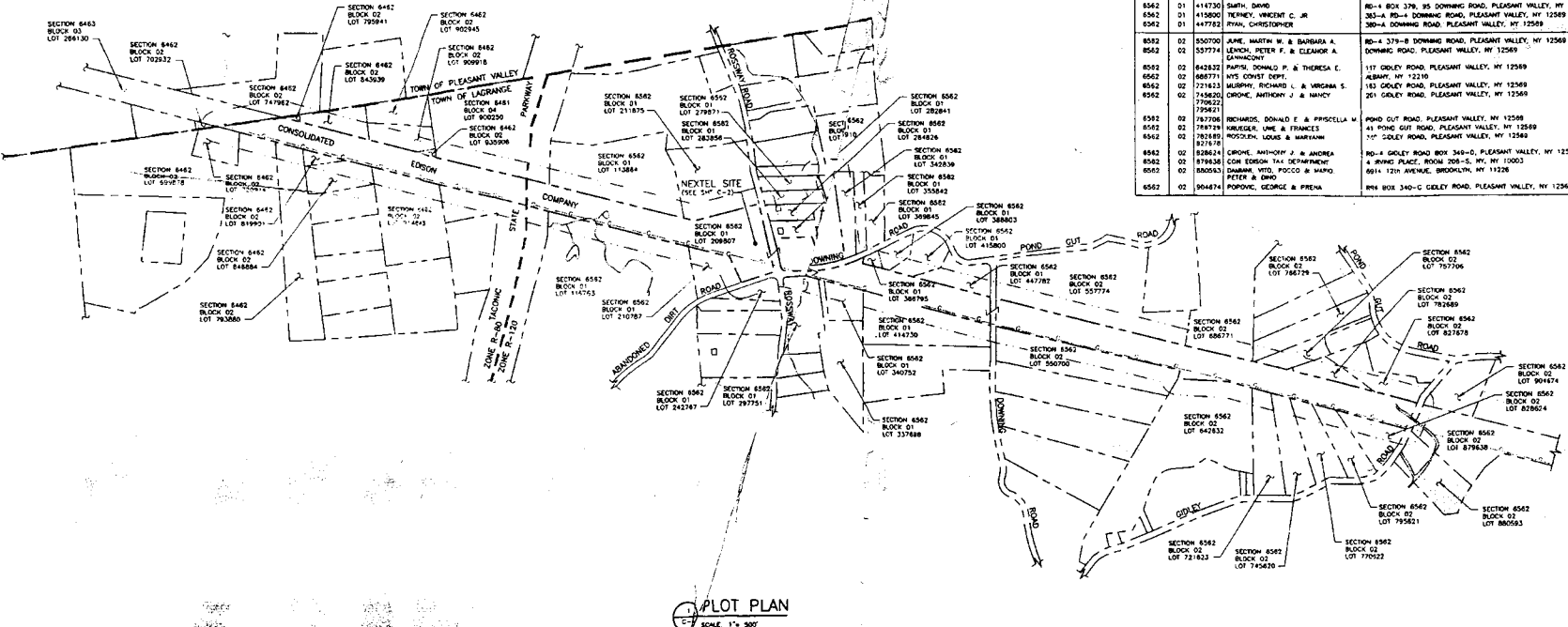
NEXTEL OF NEW YORK INC.
DBA NEXTEL COMMUNICATIONS
ONE NORTH BROADWAY
WHITE PLAINS, NEW YORK 10601
OFFICE: (914) 421-2600
FAX: (914) 421-2700

SHEET TITLE

TITLE SHEET

SHEET NUMBER

T-1



PLOT PLAN
SCALE 1" = 300'

LIST OF ADJOINING PROPERTY OWNERS				
SECTION	BLOCK	LOT	OWNER	ADDRESS
8461	04	800230	NY'S TACONIC PARKWAY	NO ADDRESS ON FILE (PER ASSESSOR)
8462	02	747962	STRAHL, DONALD R.	2145 HOFFMEYER DRIVE, SCHENECTADY, NY 12309
		782862	(SAME AS ABOVE)	(SAME AS ABOVE)
		819001		
		819039		
		845884		
		802745		
		808116		
		814643		
		835306		
8462	02	894978	WOODRUFF, GW	1 CORPORATE DRIVE, SHELTON, CT 06484
		702332		
		729914		
8463	03	786130	CONSOLIDATED EDSON CO.	4 MYING PLACE, NY, NY 10003
8562	01	113584	COUNTY SQUARE	630 PLEASANTVILLE AVENUE, NEW ROCHELLE, NY 10801
8562	01	118783		
8562	01	211075	MARTINS, A.	30 CHASE DRIVE, FISHKILL, NY 12524
8562	01	212787	HANSEL, ROBERT E.	485 CHESTNUT AVENUE, HAWAIIAN, NY 12543
8562	01	242787	DAUGHERS COUNTY COMMISSIONER OF FINANCE	22 MARKET STREET, POUQUOKEEPS, NY 12601
8562	01	278871	LILLEY, KENNETH W. JR.	427 WATERBURY HILL ROAD, LAGRANGEVILLE, NY 12540
8562	01	283841	BAVLOS, VICTOR P.	425 PLEASANT ROAD, PLEASANT VALLEY, NY 12569
8562	01	283856	BARRACK, DONALD A.	1806 CLINTON AVENUE, BAYSHIRE, NY 11706
8562	01	284828	GATTO, RICHARD	457 ROSSWAY ROAD, PLEASANT VALLEY, NY 12569
8562	01	297751	MORAN, ROBERT	203 DOWNING ROAD, PLEASANT VALLEY, NY 12569
8562	01	342839	PERINO, W. DAVID	102 CONNING ROAD, PLEASANT VALLEY, NY 12569
8562	01	337889	PRINCIPALLY, WAYNE	185 DOWNING ROAD, PLEASANT VALLEY, NY 12569
8562	01	340752	MITCHELL, JIMET	181 DOWNING ROAD, PLEASANT VALLEY, NY 12569
8562	01	348410	THE ESTATE BUILDERS INC.	P.O. BOX 229, BEACON, NY 12508
8562	01	358402	NORTON, OMO	P.O. BOX 184, PLEASANT VALLEY, NY 12569
8562	01	368725	STABLE, WILLIAM P.	88-4 BOX 385 AA, DOWNING ROAD, PLEASANT VALLEY, NY 12569
8562	01	369045	PACONA, PAUL	365-A DOWNING ROAD, PLEASANT VALLEY, NY 12569
8562	01	369803	DOWNING, WILSON S.	182 DOWNING ROAD, PLEASANT VALLEY, NY 12569
8562	01	417330	SMITH, DAVID	80-4 BOX 379, 85 DOWNING ROAD, PLEASANT VALLEY, NY 12569
8562	01	418000	TERNEY, VINCENT C. JR.	80-4 BOX 379, 85 DOWNING ROAD, PLEASANT VALLEY, NY 12569
8562	01	447782	RYAN, CHRISTOPHER	380-A DOWNING ROAD, PLEASANT VALLEY, NY 12569
8562	02	550700	JAME, MARTIN W. & BARBARA A.	80-4 379-B DOWNING ROAD, PLEASANT VALLEY, NY 12569
8562	02	557774	LEACH, PETER F. & ELEANOR A. GAYMOND	DOWNING ROAD, PLEASANT VALLEY, NY 12569
8562	02	642832	PAPPA, DONALD P. & THERESA E.	117 GIDLEY ROAD, PLEASANT VALLEY, NY 12569
8562	02	688771	NY'S COAST DRIVE	ALBANY, NY 12210
8562	02	721433	MURPHY, RICHARD L. & VIRGINIA S.	183 GIDLEY ROAD, PLEASANT VALLEY, NY 12569
8562	02	758820	CRONE, ANTHONY J. & NANCY	261 GIDLEY ROAD, PLEASANT VALLEY, NY 12569
8562	02	779821		
8562	02	787786	REICHSTE, DONALD E. & PFFSTELLA W.	POND CUT ROAD, PLEASANT VALLEY, NY 12569
8562	02	787789	MURKIN, LUNE & FRANCES	41 POND CUT ROAD, PLEASANT VALLEY, NY 12569
8562	02	787899	MOSELEN, LOUIS & MARIANNA	107 GIDLEY ROAD, PLEASANT VALLEY, NY 12569
8562	02	828424	CRONE, KATHOFF J. & ANDREA	80-4 GIDLEY ROAD BOX 348-D, PLEASANT VALLEY, NY 12569
8562	02	878438	COB EDSON TAX DEPARTMENT	4 MYING PLACE, ROOM 308-S, NY, NY 10003
8562	02	880563	DANAHY, VITO, POCO & MAPO	6814 12TH AVENUE, BROOKLYN, NY 11228
8562	02	904874	PORONIC, GEORGE & PRENA	804 BOX 340-C GIDLEY ROAD, PLEASANT VALLEY, NY 12569

TECTONIC ENGINEERING CONSULTANTS P.C.

858 LITTLE BRITAIN ROAD
NEW HAVEN, NEW YORK 12553
(845) 587-6858

NEXTEL

PROJECT NUMBER: 1170-2296 DRAWN BY: JMC

NO.	DATE	ISSUE
1	8/12/00	FOR COMMENT
2	7/18/00	FOR APPROVAL
3	11/30/00	PER TOWN'S COMMENTS
4	7/11/01	ADDED APPROVAL BOX
5	8/22/01	PER TOWN'S COMMENTS
6	12/23/01	FOR REVIEW
7	12/10/01	FOR PERMIT

RELEASED BY: Deth, Poth DATE: 12/4/01

APPROVALS	
CONSTRUCTION	DATE
LEASING	DATE
RF	DATE
ZONING	DATE
OWNER	DATE
NETWORK ENG.	DATE

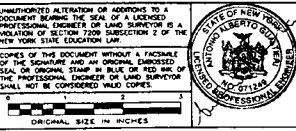
NY-2296
LAGRANGE NORTH
CON-ED TOWER L-17
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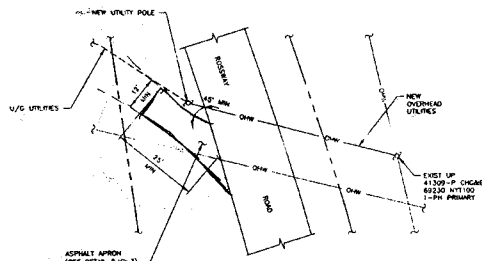
NEXTEL OF NEW YORK INC.
DBA NEXTEL COMMUNICATIONS
ONE NORTH BROADWAY
WHITE PLAINS, NEW YORK 10601
OFFICE: (914) 421-2600
FAX: (914) 421-2700

PLOT PLAN

SHEET NUMBER

C-1





3
C-2

ENLARGEMENT PLAN

SCALE: 1" = 20'



1. TOPOGRAPHY BASED ON A PARTIAL SURVEY OF EXISTING ENGINEERING CONSULTANTS' DATA, PERFORMED FOR THE CITY, COMMUNICATIONS, DATED 7/3/00.
2. EXIST BUILDINGS, TOWER LOCATION AND ELEVATIONS BASED ON CHICAGO TRANSPORTATION LANE PLAN A PROJECT, DATED 12/11/81, AND THE CITY OF CHICAGO STONE & WEBSTER ENGINEERING CORPORATION DESIGN JANUARY, 1985.
3. PROPERTY LINES SHOWN ARE BASED ON TOWER LOCATION DATA MAPS.
4. NORTH INDICATED BY AN ARROW.
5. ALL EXISTING BUILDINGS WOODED AREAS, SHADE THEIR LARGER THAN 1/2" DIAMETER AT THREE FEET ABOVE THE GROUNDLINE AND ALL OTHER SHOWN FEATURES HAVE BEEN SHOWN WITHIN THE LIMITS OF SURVEILLANCE. THERE ARE NO OTHER SHOWN FEATURES WITHIN THE LIMITS OF SURVEILLANCE. PLEASE NOTE THAT THERE ARE NO OTHER SHOWN FEATURES WITHIN THE LIMITS OF SURVEILLANCE.
6. THE PROPOSED FACILITY IS UNIMPAIRED AND THEREFORE DOES NOT REQUIRE A MEANS OF WATER SUPPLY OR SEWER DISPOSAL.
7. THE PROPOSED FACILITY WILL BE LOCATED IN EXCESS OF 100 FEET TO THE PROPOSED FACILITY. ONE 100 WATT LIGHT FIXTURE WILL OPERATE BY MOTION DETECTION IS PROPOSED AS SECURITY LIGHTING ON THE EXTERIOR OF THE BUILDING.
8. THE PROPOSED FACILITY WILL NOT BE LOCATED IN ANY SENSITIVE AREAS, INCLUDING WATER RUNOFF AND WILL THEREFORE NOT IMPACT THE EXISTING STORM WATER DRAINAGE SYSTEM.
9. THE PROPOSED FACILITY DOES NOT INCLUDE OUTSIDE STORAGE OF ANY HAZARDOUS MATERIALS.
10. THE PROPOSED FACILITY WILL BE LOCATED IN AN AREA OF LOW FLOOD RISK.
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TOWN OF LACHANCE ZONING DISTRICT: P-120 (RESIDENTIAL)		PERMITTED	EXISTING	PROPOSED
MINIMUM LOT AREA	120,000 SF	1,407,088 SF	NO CHANGE	
MINIMUM WIDTH OF LOT ALONG BUILDING LINE	100 FT	952 FT	NO CHANGE	
MINIMUM WIDTH OF LOT AT ANY POINT	100 FT	250 FT	NO CHANGE	
MINIMUM DEPTH OF LOT	100 FT	250 FT	NO CHANGE	
MINIMUM DEPTH OF LOT ALONG BUILDING LINE	100 FT	800 FT	NO CHANGE	
MINIMUM LOT FRONTAGE ON COUNTY OR STATE HIGHWAY*	225 FT	250 FT	NO CHANGE	
SETBACKS FROM:				
CENTERLINE OF STATE HIGHWAY, COUNTY ROAD*	120 FT	2,066 FT	2,673 FT	
CENTERLINE OF TOWN ROAD*	80 FT	148 FT	171 FT	
RIGHT-OF-WAY LINE OF STATE HIGHWAY, COUNTY ROAD*	90 FT	1,884 FT	1,884 FT	
RIGHT-OF-WAY LINE OF TOWN ROAD*	50 FT	158 FT	158 FT	
MINIMUM SETBACK FROM ALL OTHER STRUCTURES ON ADJACENT PROPERTIES	20 FT	251 FT	289 FT	
PROPERTY LINE	40 FT	110 FT	151 FT	
MAXIMUM LOT COVERAGE BY BUILDINGS AS PERCENT OF LOT AREA	10%	N/A	0.51%	
MAXIMUM FLOOR AREA OF BUILDINGS AS PERCENT OF LOT AREA	20%	N/A	0.01%	
MAXIMUM TOTAL LOT COVERAGE AS PERCENT OF LOT AREA (BUILDING STRUCTURE, DRIVEWAY, DRIVEWAY DRIVEWAY, DRIVEWAY)	15% </td <td>0.05%</td> <td>0.07%</td>	0.05%	0.07%	
MAXIMUM NUMBER OF STORIES OF A BUILDING	3 STORIES	N/A	1 STORY	
MAXIMUM HEIGHT OF BUILDING OR STRUCTURE	35 FT	106 FT 8"	106 FT 8"	
(*/NOT APPLICABLE)				
* RAILROAD RIGHT-OF-WAY				
* BOYS' SCOUTS OF AMERICA				
* FISHING STATE PARK				
* FISHING RESIDENTIAL USE				

	PROPERTY LINE
	ADJACENT PROPERTY LINE
	EAST CONTOUR
	EAST INDEX CONTOUR
	EAST FENCE
	CHANNEL FENCE
	SALT FENCE
	EAST TREE LINE
	EAST OVERHEAD UTILITY
	NOW OVERHEAD UTILITY
	U/U UTILITIES
	EAST DART ACCESS DRIVE
	GAS LINE
	EAST ROCK WALL
	EAST WATERWAY
	MUNICIPAL BOUNDARY
	ZONING BOUNDARY
	EAST UTILITY POLE
	HIGH UTILITY POLE
	EAST TRANSMISSION TOWER
	EAST BUILDING

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0 1 2
ORIGINAL SIZE IN INCHES



956 LITTLE BRITAIN ROAD
NEW WINDSOR, NEW YORK 12553
(516) 957-0056

PROJECT NUMBER	DRAWN BY
1-22-2000	

NO.	DATE	ISSUE
-	8/12/00	FOR COMMENT
1	7/18/00	FOR APPROVAL
2	7/19/00	PER COMMENTS
3	8/13/00	REVISED ANTENNA HEIGHT
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6	8/22/01	PER TOWN'S COMMENTS
7	12/3/01	FOR REVIEW
8	12/10/01	FOR PERMIT

RELEASED BY	DATE
<i>Hutch. Bette</i>	<i>12/10/01</i>

CONSTRUCTION _____ DATE _____
LEASING _____ DATE _____
RF _____ DATE _____
ZONING _____ DATE _____
OWNER _____ DATE _____
NETWORK ENG _____ DATE _____

NY-2296
LAGRANGE NORTH
CON-ED TOWER L-17
ROSSWAY ROAD
LAGRANGE, NY
12569

NEXTEL OF NEW YORK INC.
DBA NEXTEL COMMUNICATIONS
ONE NORTH BROADWAY
WHITE PLAINS, NEW YORK 10601
OFFICE: (914) 421-2600
FAX: (914) 421-2700

PARTIAL SITE PLAN,
SETBACK MAP & NOTES

SHEET NUMBER

C-2

[illegible][illegible]

TEEL, FABRICATE AND ERECT STRUCTURAL STEEL IN ACCORDANCE WITH THE LATEST AISC CODES AND THE LATEST AISC SPECIFICATIONS FOR STEEL BUILDINGS, AND OTHER CODES, STANDARDS, AND SPECIFICATIONS SPECIFICALLY AS EXPLICITLY REQUIRED HEREIN.

(A) ALL GRADE 80 BOLTED STEEL, ROOF PURLINS, AND U BOLTS SHALL BE GALVANIZED AFTER FABRICATION.

(B) ALL STEEL BRACING TYPE, END PLATES, AND CONNECTIONS SHALL CONFORM TO THE REQUIREMENTS OF THE AISC AND SPECIFICATION.

(C) STRUCTURAL BOLTS SHALL CONFORM TO THE LATEST AISC STEEL HIGH STRENGTH BOLTS AND NUTS, AND SHALL BE PROVIDED WITH THE FOLLOWING HARDNESS REQUIREMENTS:

(1) MINIMUM 30 HRC FOR THE REACTION PLATES OF BRACES, BRACING STRUTS, ETC., ARE NOT SHOWN ON THE DRAWINGS THE CONNECTIONS SHALL BE DESIGNED TO SUPPORT THE FULLY DEVELOPED STRENGTH OF THE BOLTS.

(2) MINIMUM 32 HRC FOR THE END PLATES OF BRACES, BRACING STRUTS, ETC., ARE NOT SHOWN ON FIG. 2, MINOR DETAIL OF THE AISC MANUAL OF STEEL CONSTRUCTION, 13TH EDITION, PART 10, CONNECTIONS.

(3) MINIMUM 3/16" PLATE E70-X8 WELD SHALL APPLY UNLESS NOTED OTHERWISE.

(4) MINIMUM 1/2" DIA. ZINC BOLTS SHALL APPLY UNLESS NOTED OTHERWISE.

(5) MINIMUM SIZE OF ARC WELDS SHALL BE 1/8x3/4" UNLESS NOTED OTHERWISE.

(6) ALL WELDED JOINTS SHALL BE FULL PENETRATION WELDS.

(7) ALL HOLES FOR BOLTS SHALL BE 1/16" HIGHER THAN THE BOLT DIAMETER WITH AN EDGE DISTANCE OF AT LEAST 1 1/2 TIMES THE BOLT DIAMETER AND A MINIMUM OF 1 1/2" FROM THE END OF THE MEMBER.

(8) ALL HOLES SHALL BE DRILLED OR REAMED TO REMOVE ALL BURRS AND IMPROVED FOR WELDING OR LOCK HITS.

3. SURFACE PREPARATION AND MISCELLANEOUS STEEL TO THE ENGINEER FOR APPROVAL, AND INCORPORATE ALL COMMENTS PRIOR TO FABRICATION.

CONTRACTOR SHALL COMPLY WITH THE LATEST AISC CODE FOR PROCEDURES, SPECIFICATIONS, AND STANDARDS FOR STRUCTURAL STEEL FABRICATION, WELDING, ALL WELDERS AND WELDING PROCEDURES SHALL BE QUALIFIED IN ACCORDANCE WITH THE AISC AND THE AISC CODE OF QUALITY CERTIFICATION.

4. FABRICATION SHALL CONFORM TO FEDERAL SPECIFICATION FF-353, GROUP F, CLASS 3, AS MANUFACTURED BY THE FOLLOWING STEEL FABRICATIONS OR IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.

ALL EXTERIOR BOLTS, ANCHORS AND MISCELLANEOUS HARDWARE SHALL BE GALVANIZED AFTER FABRICATION. ALL COATINGS (HOT-DIP OR RICH BROWN STEEL HARDWARE), UNLESS OTHERWISE NOTED.

ROUND AND SQUARE HOLLOW STRUCTURAL SECTIONS (HSS) SHALL CONFORM TO ASTM SPECIFICATION A500, GRADE B, HOT-DIP GALVANIZED (HOT-DIP OR RICH BROWN STEEL HARDWARE), UNLESS OTHERWISE NOTED.

ALL STEEL MATERIALS SHALL BE GALVANIZED AFTER FABRICATION IN ACCORDANCE WITH ASTM A593 (THE "HOT-DIP GALVANIZED" COATING ON IRON AND STEEL PRODUCTS), UNLESS OTHERWISE NOTED.

DAMAGED GALVANIZED SURFACES SHALL BE REPAIRED BY COLD GALVANIZING IN ACCORDANCE WITH ASTM A593.

ALL MATERIALS TO BE USED FOR THE FOLLOWING SITUATIONS ON NONCORROSION MATERIALS OR CONDITIONS SHALL BE REFERRED TO THE FOLLOWER PRIOR TO REMOVAL FROM THE PROJECT:

CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONCENTRICITY AND BE FULLY PREPARED TO FABRICATE AND ERECT OF ANY MATERIAL, AND UNUSUAL CONDITIONS SHALL BE REPORTED TO THE ENGINEER IMMEDIATELY.

GRATING SHALL BE 1/4" THICK, FASTENED WELDED STEEL, BUT GRATING WITH 1 1/8" DIA. BEARING BARS AT 1 1/4" DIA. SPACED TO SUPPORTING MEMBERS WITH SADDLE-TYPE CLIPS AT 2' C/C. AND BARS TO BE 1/2" DIA. SPACED TO SUPPORTING MEMBERS.

HAMMER DRILLS ARE NOT TO BE USED WHEN DRILLING HOLES FOR SLEVE OR ANCHOR BOLTS.

EXPLOIT ANCHOR ASSEMBLY SHALL CONSIST OF A STAINLESS STEEL FLEXIBLE ANCHOR ROD, ANCHOR PLATE, AND ANCHOR BOLT. THE ANCHOR PLATE SHALL BE 1/2" THICK AND AN EXPLOIT ANCHOR BOLT SHALL BE 1/2" DIA. UNLESS OTHERWISE NOTED.

ALL BOLTS TO BE USED IN THE FIELD SHALL BE PLUNGED & DRILLED, NO HOT BURNING SHALL BE ALLOWED.

DESIGN AND ERECT OF STRUCTURAL STEEL, SHALL CONFORM TO THE DESIGN AND ERECT OF STEEL CONSTRUCTION SPECIFICATION FOR THE DESIGN OF STRUCTURAL STEEL BUILDINGS.

CONTRACTOR SHALL CONFORM TO THE FOLLOWING TO AISC AND "CARBON STEEL, BOLTS AND STUDS, 60,000 PSI TENSILE STRENGTH, UNLESS OTHERWISE NOTED."

STEEL PIPE SHALL CONFORM TO ASTM A500, "CARBON STEEL PIPE, 60,000 PSI TENSILE STRENGTH, UNLESS OTHERWISE NOTED."

BEAMLESS CARBON STEEL STRUCTURAL TUBES, COLUMNS OR, OR NEW AISC SPECIFICATION, 13TH EDITION, PART 10, CONNECTIONS, UNLESS OTHERWISE NOTED.

PIPE OR (A) GRADE B, PIPE STEEL INDICATED ARE NORMAL, ACTUAL OUTSIDE DIAMETER SHALL BE USED FOR ALL DIMENSIONS.

ALL STEEL MATERIALS SHALL BE GALVANIZED AFTER FABRICATION IN ACCORDANCE WITH ASTM A593 (THE "HOT-DIP GALVANIZED" COATING ON IRON AND STEEL PRODUCTS), UNLESS OTHERWISE NOTED.

PIPES USED FOR FENCE POSTS, RAILS, AND GATE FRAMES SHALL CONFORM TO THE FOLLOWING STEEL, UNLESS OTHERWISE NOTED:

STEEL SHALL BE 1/2" DIA. UNLESS OTHERWISE NOTED.

FOR FENCE STRUCTURES, PIPE SHALL BE GALVANIZED ARE NORMAL, ACTUAL OUTSIDE DIAMETER SHALL BE USED FOR ALL DIMENSIONS.

SLEVE ANCHOR SHALL CONFORM TO FEDERAL SPECIFICATION FF-353, GROUP F, CLASS 3, AS MANUFACTURED BY THE FOLLOWING STEEL FABRICATIONS OR IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.

MINIMUM EMBEDMENT SHALL BE THREE (3) INCHES.

FOUNDATION

SCALE: 1/4" = 1'-0"

SECTION

SCALE: 3/4" = 1'-0"

[illegible]

1. ALL EXPOSURES SHALL BE DEWATERED BY BLOWING, MAPPING, ETC. IN A MANNER THAT WILL PREVENT SOIL LOSS. EXPOSURES SHALL BE PROTECTED FROM SURFACE WATER SHALL BE DRAINED AWAY FROM EXPOSURES BY MEANS OF DITCHES, DRAINAGE DITCHES, OR OTHER SUITABLE METHODS.
2. COMPACT EXPOSURES FOR FOUNDATIONS, UTILITY ETC. SHALL BE LIMITED TO 4 FEET IN DEPTH UNLESS SHORING AND BRACING IS USED. TRENCH BRACING SHALL BE SUFFICIENT TO MAINTAIN WALLS CONFORMING WITH THE LATEST OSHA REQUIREMENTS.
3. BACKFILL SHALL BE PLACED IN MAXIMUM LOOSE LIFT THICKNESSES OF 8 INCHES AND COMPACTED WITH SUITABLE COMPACTION EQUIPMENT. ALL TALL SHALL BE CONNECTED TO AT LEAST 3% OF MAXIMUM DRY DENSITY PER ACTH 0157. IN COMPACTED AREAS WHERE THE MAXIMUM DRY DENSITY IS PLACED, TALL SHALL BE PLACED IN MAXIMUM 4 INCH LOOSE LIFT AND COMPACTED TO THE PREDETERMINED DRY DENSITY.
4. ALL TALL SHALL BE CLEAN AND FREE OF LARGE ROCKS, NO ORGANIC MATERIAL SHALL BE PERMITTED.
5. TEMPORARY CONDUIT CONTROL STRUCTURES SHALL BE INSTALLED AS REQUIRED AFTER THE SITE IS RECOVERED.
6. ALL AREAS DESTROYED BY ON-SITE GRADING THAT WILL NOT BE RECONSTRUCTED UPON SHALL BE ESTABLISHED WITH PERMANENT VEGETATION.
7. ALL DISTURBED AREAS THAT WILL NOT BE GRADED UNDER ACTIVE CONSTRUCTION OR WHICH WILL BE LEFT UNGRADED SHALL BE SEEDING OR ESTABLISHED BY TEMPORARY SEEDING OR MULCHING AS PER SPECIFICATIONS.
8. ALL AREAS SHALL BE GRADED TO DRAIN WATER AWAY FROM THE TOWER AND SHELTER.

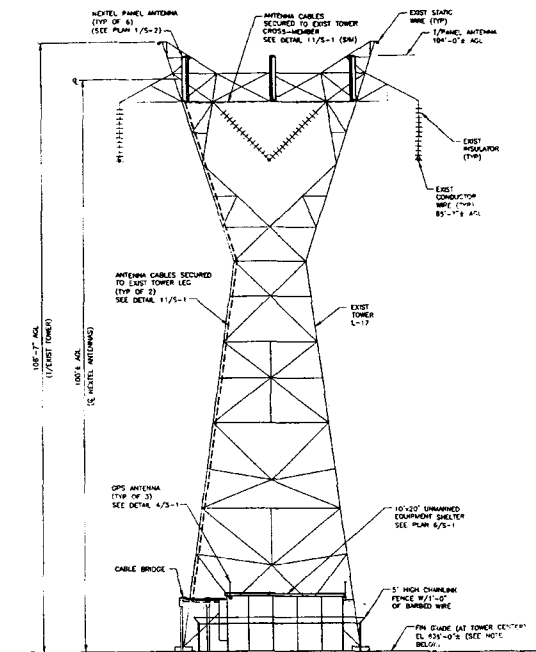
1. ANTHESS SHALL BE TYPE AND QUANTITY AS SHOWN ON SHEET S-2
2. THE ANTHESS SUPPORTS HAVE BEEN DESIGNED TO CONFORM TO THE FOLLOWING CRITERIA:
ASTM/AISC/JEED-221-1988 STANDARD FOR 75 WPM
ASTM/AISC/JEED-221-1988 STANDARD FOR 85 WPM PLUS 1/2" RADIAL ICE
ACI-308-90 DESIGN LOADS OF 40 WPM PLUS 1/2" RADIAL ICE
ACI-308-90 DESIGN LOADS OF 30 WPM PLUS 1/2" RADIAL ICE
NEC-CODING-DEVELOPMENT - 110 WITH WIND-NO ICE
3. UNLESSRULS SHALL BE FORMED STEEL CHANNEL, STRUTTING MANUFACTURED BY THE U.S. COIL CO. OR EQUIVALENT. UNLESSRULS SHALL BE 1.5"x1.5" 8-1/2 LBS/LIN. UNLESSRULS OTHERWIS, AND SHALL BE HOT-DIP GALVANIZED.
4. WHENEVER RENDS RADIAL OF ANTHESS CABLES SHALL BE IN ACCORDANCE WITH THE DESIGN RECOMMENDATIONS OF THE FOUNDATION SURVIVAL S-2.
5. CONTRACTOR TO VERIFY ALL REQUIRED LENGTHS OF MATERIAL FURNISH TO ORDERING MANUFACTURER.
6. ALL RETIEHED COIL SUPPORT MEMBERS ARE MANUFACTURED BY MICROTECH, (800) 747-2733.
7. ALL ANTHESS MOUNTS SHALL BE INSTALLED WITH DOUBLE NUTS AND SHALL BE INSTALLED TO SAG OUT.
8. CONTRACTOR TO SAC COG CABLE AT BOTH ENDS WITH ANTHESS DESIGNATION AS SHOWN IN ANTHESS CATALOG, SCHEDULE, SHEET S-2.

SHELTER NOTES

1. DESIGN AND CONSTRUCTION OF THE SHELTER SHALL BE IN ACCORDANCE WITH THE NEW YORK STATE UNIFORM FIRE PREVENTION BUILDING CODE.
2. THE SHELTER SHALL BE CONSTRUCTED OF STEEL FRAMING AND INSULATION PROVIDED BY UNITED STRUCTURES, 2220 VESTAL ROAD, P.O. BOX 1127, VESTAL, NY 13850.
3. THE FOUNDATION INDICATED IS DESIGNED FOR A MAXIMUM ALLOWABLE SOIL BEARING CAPACITY OF 3000 PSF. THE WEIGHT OF THE ITEMS MAY BE REDUCED IF THE BEARING CAPACITY OF THE FOUNDATION SURROUNDING IS FOUND TO BE GREATER THAN THIS VALUE, AS DETERMINED BY A LICENSED STRUCTURAL ENGINEER.

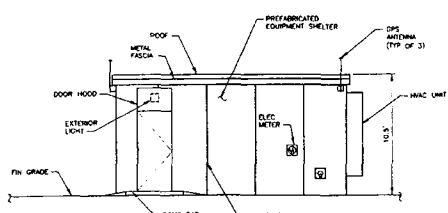
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C-4

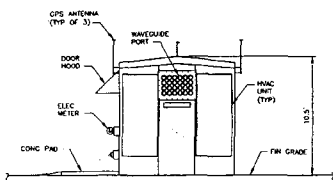


ELEVATION NOTE:
ELEVATION OF EXISTING GRADE AT CENTER OF TOWER HAS BEEN ASSIGNED AS EL 538'-0\"/>

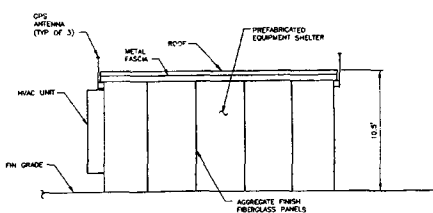
1 ELEVATION
SCALE: 1" = 10'



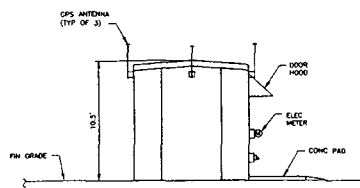
7 FRONT ELEVATION
SCALE: 1" = 5'



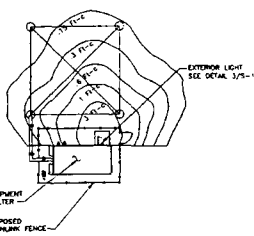
8 SIDE ELEVATION
SCALE: 1" = 5'



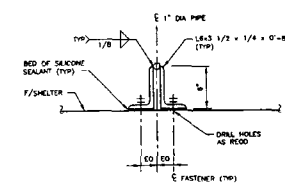
9 REAR ELEVATION
SCALE: 1" = 5'



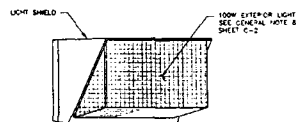
10 SIDE ELEVATION
SCALE: 1" = 5'



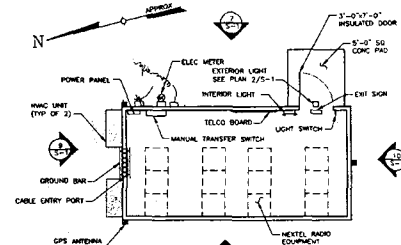
2 LIGHTING PLAN
SCALE: 1" = 20'



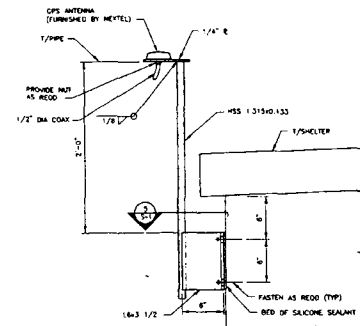
3 SECTION
SCALE: 1 1/2" = 1'-0"



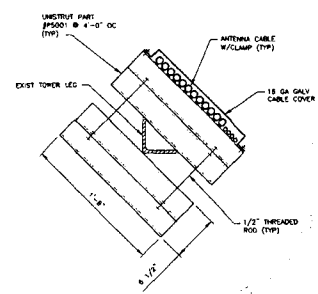
5 DETAIL
SCALE: 1 1/2" = 1'-0"



6 PLAN
SCALE: 1" = 5'



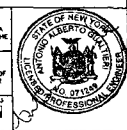
4 GPS ANTENNA MOUNT
SCALE: 1 1/2" = 1'-0"



11 DETAIL
SCALE: 1 1/2" = 1'-0"

- NOTES:**
1. INSTALL UNISTRUTS TO EXISTING TOWER LEG AT LOCATIONS THAT DO NOT INTERFERE WITH EXISTING BRACING MEMBERS.
2. ANTENNA CABLE & HANGER TO BE PAINTED TO MATCH COLOR OF EXIST TOWER.

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TECTONIC ENGINEERING CONSULTANTS P.C.

985 LITTLE BRITAIN ROAD
NEW BRONX, NEW YORK 10330
(646) 647-8854

NEXTEL

PROJECT NUMBER: 1170-2255 DRAWN BY: JAC

NO.	DATE	REVISION
1	8/12/00	FOR COMMENT
2	1/16/00	FOR APPROVAL
3	8/13/00	REVISED ANTENNA HEIGHT
4	11/30/00	FOR TOWER'S COMMENTS
5	7/11/01	ADDED APPROVAL BOX
6	8/22/01	FOR TOWER'S COMMENTS
7	12/3/01	FOR REVIEW
8	12/10/01	FOR PERMIT

RELEASED BY: JAC DATE: 12/10/01

APPROVALS

CONSTRUCTION: _____ DATE: _____
LEASING: _____ DATE: _____
RF: _____ DATE: _____
ZONING: _____ DATE: _____
OWNER: _____ DATE: _____
NETWORK ENG: _____ DATE: _____

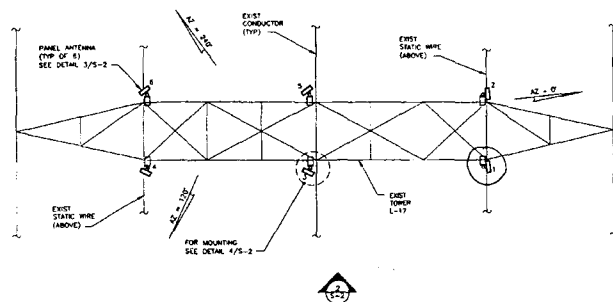
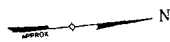
NY-2296
LAGRANGE NORTH
CON-ED TOWER L-17
ROSSWAY ROAD
LAGRANGE, NY
12569

NEXTEL OF NEW YORK, INC.
ORA NEXTEL COMMUNICATIONS
ONE NORTH BROADWAY
WHITE PLAINS, NEW YORK 10601
OFFICE: (914) 421-2800
FAX: (914) 421-2700

ELEVATION & DETAILS

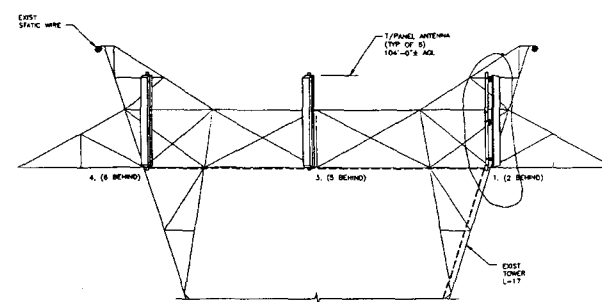
SHEET NUMBER

S-1



NOTE:
CONTRACTOR TO ADJUST ANTENNA MOUNTING LOCATIONS TO
AVOID EXISTING DIAGONAL MEMBERS AND GUSSET PLATES

1 ANTENNA PLAN
SCALE: 1" = 5'



2 ELEVATION
SCALE: 1" = 5'

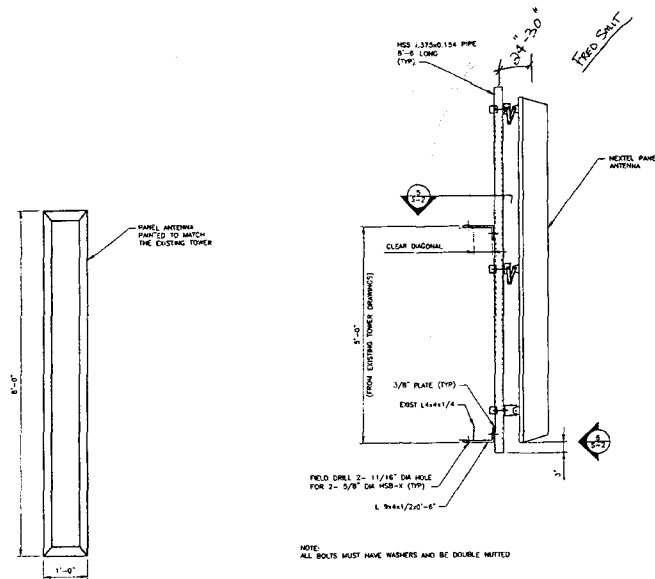
ANTENNA DATA			
ANTENNA SPECIFICATIONS			
SECTION	MODEL	QTY	AZIMUTH
1	FORM-09-XXXX-2	2	0°
2	FORM-09-XXXX-2	2	120°
3	FORM-09-XXXX-2	2	240°
EWS WIRELESS ANTENNA			
HEIGHT	84"		
WIDTH	12"		
DEPTH	7"		
WEIGHT	36 LBS		
WIND AREA (C/A)	8.0 SF		

ALL ANTENNAS TO BE MOUNTED ON DOWN-TILT BRACKETS

COAX CABLE SCHEDULE			
COAX RUN	COAX SIZE	MIN BEND RADIUS	
SECTOR ANTENNAS			
0 TO 150 FEET	7/8" LDF5-50A CABLE	15'	
150 TO 220 FEET	1 1/4" LDF6-50A CABLE	20'	
> 220 FEET	1 5/8" LDF7-50A CABLE	25'	
GPS ANTENNAS			
0 TO 250 FEET	1/2" LDF4-50A CABLE	15'	
> 250 FEET	7/8" LDF5-50A CABLE	15'	

ANTENNA AND COAXIAL SCHEDULE					
SECTOR	ANTENNA #	MECHANICAL DOWN TILT	AZIMUTH	ANTENNA H. HEIGHT (AFL)	COAXIAL CABLE COLOR MARK
1	1	0°	0°	100'	1 RED ⁽⁺⁾
1	2	0°	0°	100'	1 RED ⁽⁺⁾
2	3	0°	120°	100'	2 RED ⁽⁺⁾
2	4	0°	120°	100'	2 GREEN ⁽⁺⁾
3	5	0°	240°	100'	3 RED ⁽⁺⁾
3	6	0°	240°	100'	3 GREEN ⁽⁺⁾
PRIMARY GPS	-	-	-	12'	1 YELLOW
SECONDARY GPS	-	-	-	12'	2 YELLOW
SPARE GPS	-	-	-	12'	3 YELLOW

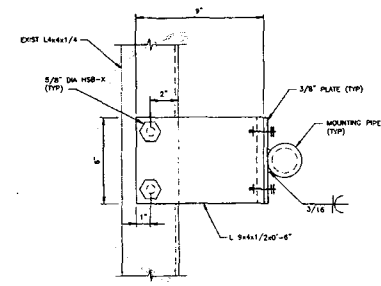
(+) NOTE THAT ANTENNAS HAVE 4 CABLES EACH



NOTE:
ALL BOLTS MUST HAVE WASHERS AND BE DOUBLE NUTTED

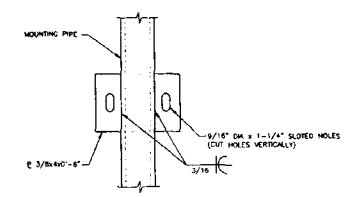
3 DETAIL
SCALE: 3/4" = 1'-0"

4 ANTENNA MTG DETAIL
SCALE: 3/4" = 1'-0"



NOTE:
ANTENNA NOT SHOWN FOR CLARITY

5 SECTION
SCALE: 3/4" = 1'-0"

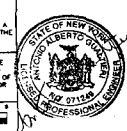


NOTE:
ANTENNA NOT SHOWN FOR CLARITY

6 DETAIL
SCALE: 3/4" = 1'-0"

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CONSULTANTS P.C.

505 LITTLE BRIDGE ROAD
NEW BRUNSWICK, NEW YORK 07102
(908) 387-8888

NEXTEL

PROJECT NUMBER: 1170.2296
DRAWN BY: JMB
NO. DATE ISSUE
- 12/3/01 FOR REVIEW
1 12/10/01 FOR PERMIT

RELEASED BY: [Signature]
DATE: 12/10/01

APPROVALS

CONSTRUCTION DATE: _____
LEASING DATE: _____
RF DATE: _____
ZONING DATE: _____
OWNER DATE: _____
NETWORK ENG. DATE: _____

NY-2296
LAGRANGE NORTH
CON-ED TOWER L-17
ROSSWAY ROAD
LAGRANGE, NY
12569

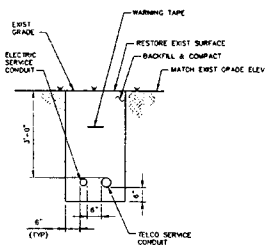
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ONE NORTH BROADWAY
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FAX: (914) 421-2700

SHEET TITLE

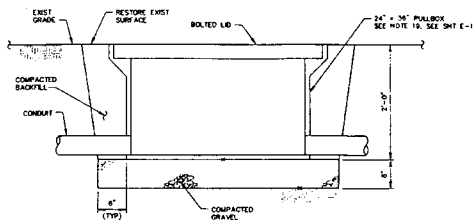
ANTENNA MOUNT
& DETAILS

SHEET NUMBER

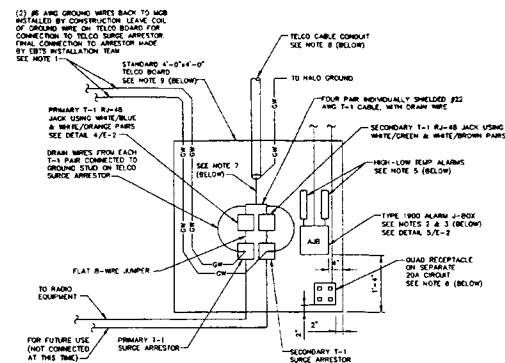
S-2



DETAIL
E-1
SCALE: 1/2" = 1'-0"

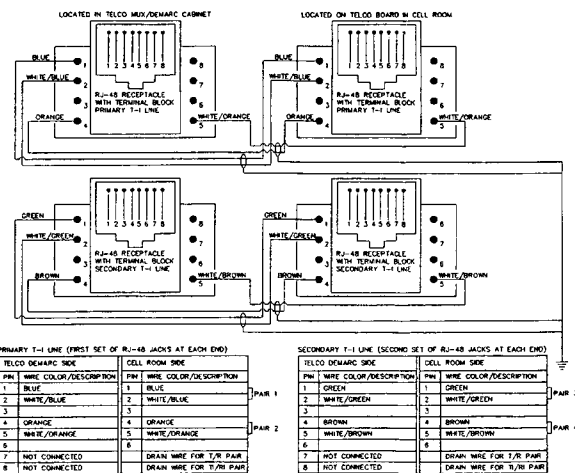


DETAIL
E-2
SCALE: 1" = 1'-0"

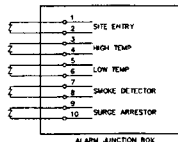


- NOTES:**
1. LEAVE 5-7 FEET OF WIRE FOR NEXTEL.
 2. USE RED & GREEN PAIR FOR ALARM.
 3. LEAVE YELLOW & BLACK FOR SPARES.
 4. CONTRACTOR TO PROTECT TEMP ALARMS FROM HVAC UNITS.
 5. LABEL ALL WIRES.
 6. DO NOT GROUND TO OUTLET COVERS.
 7. FAN OUT CABLE AS IT ENTERS THE CONDUIT TO BOTH RJ-45 JACKS. WIRE PER 4/E-2.
 8. FOUR PAIR EXTENDED DEMARC CABLE WILL SUPPORT TWO 1-1 CIRCUITS.
 9. TELCO BOARD IS 8'-0" WIDE. SEE NOTE 1.

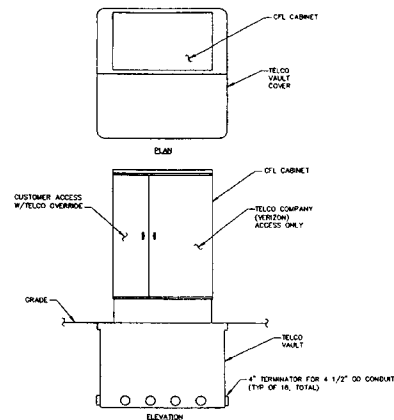
TELCO BOARD ELEVATION
E-3
SCALE: 3/4" = 1'-0"



WIRING DETAIL
E-4
SCALE: 3/4" = 1'-0"



ALARM DIAGRAM
E-5
SCALE: NTS

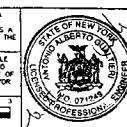


CFL CABINET & VAULT
E-6
SCALE: 1/2" = 1'-0"

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ORIGINAL SIZE IN INCHES



TECTONIC ENGINEERING
CONSULTANTS P.C.

855 LITTLE BAYVIEW ROAD
NEW BRIDGE, NEW YORK 10953
(845) 587-6806

NEXTEL

PROJECT NUMBER: 1170.2296
DRAWN BY: RMB

NO. DATE ISSUE
1 12/3/01 FOR REVIEW
2 12/10/01 FOR PERMIT

RELEASED BY: [Signature]
DATE: [Signature]

APPROVALS

CONSTRUCTION: DATE: _____
LEASING: DATE: _____
RF: DATE: _____
ZONING: DATE: _____
OWNER: DATE: _____
NETWORK ENG: DATE: _____

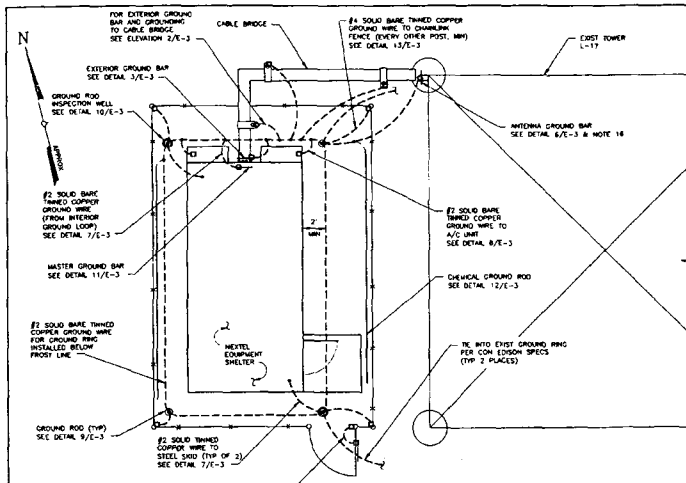
NY-2296
LAGRANGE NORTH
CON-ED TOWER L-17
ROSSWAY ROAD
LAGRANGE, NY
12569

NEXTEL OF NEW YORK INC.
ONE NEXTEL COMMUNICATIONS
ONE NORTH BROADWAY
WHITE PLAINS, NEW YORK 10601
OFFICE: (914) 421-2600
FAX: (914) 421-2700

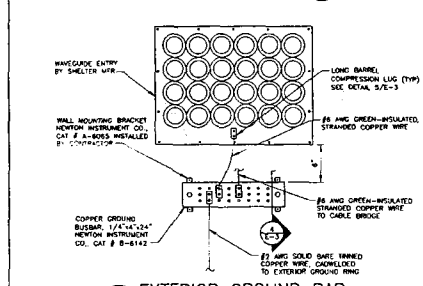
SHEET TITLE
ELECTRICAL DETAILS

SHEET NUMBER

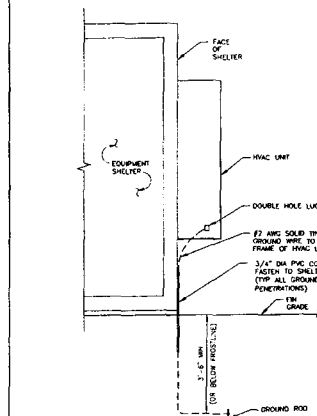
E-2



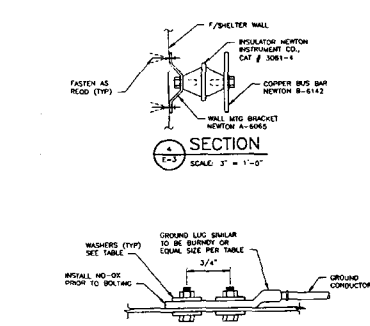
GROUNDING PLAN
SCALE: 1" = 5'



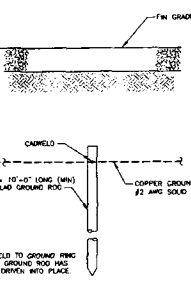
EXTERIOR GROUND BAR
SCALE: NONE



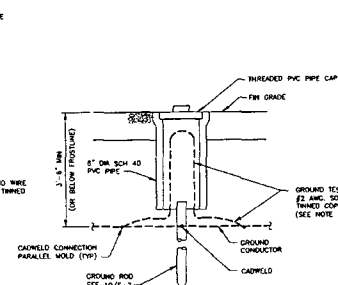
HVAC UNIT GROUND
SCALE: 1/2" = 1'-0"



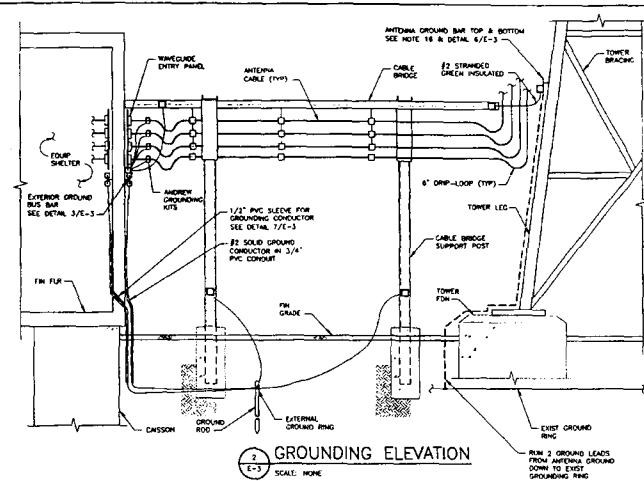
LUG GROUND CONNECTION
SCALE: NONE



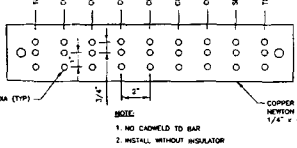
GROUND ROD
SCALE: 1" = 5'-0"



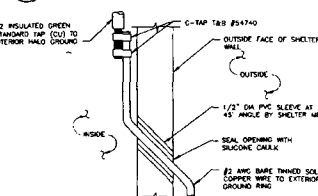
GROUND INSPECTION WELL
SCALE: 1" = 5'-0"



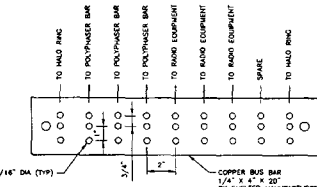
GROUNDING ELEVATION
SCALE: NONE



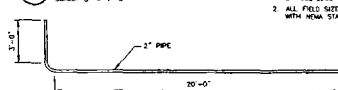
ANTENNA GROUND BAR DETAIL
SCALE: 3" = 1'-0"



WALL GROUND PENETRATION
SCALE: NONE

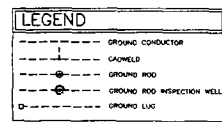


MASTER GROUND BAR
SCALE: 3" = 1'-0"



FENCE CORNER
SCALE: NONE

- ### GROUNDING NOTES
- CONTRACTOR SHALL INSTALL ALL GROUNDING IN ACCORDANCE WITH NEXTEL'S SITE GROUNDING SPECIFICATIONS, LATEST EDITION.
 - INTERIOR GROUNDING TO BE PROVIDED BY PREFABRICATED SHELTER MANUFACTURER.
 - ALL UNDERGROUND CONDUITS/CONDUCTORS SHALL BE #2 AWG THINNED SOLID COPPER WIRES BURNED BELOW PROTECTION AND MUST BE EXTERNALLY WELDED.
 - GROUNDING RODS SHALL BE STAINLESS STEEL OR COPPER-CLAD STEEL 5/8" DIA. X 10'-0" LONG BURNED WITH TOP OF THE ROD BURNED BELOW PROTECTION. GROUND RODS SHALL BE EXTERNALLY WELDED TO UNDERGROUND GROUNDING LOOP.
 - AVOID DISRUPTION OF EXISTING GROUNDING SYSTEM. REPAIR ANY DAMAGE TO THE SATISFACTION OF OWNER.
 - ALL ABOVE GROUND CONNECTORS SHALL BE CABLED, BOLT CLAMP, OR SPLIT BOLT CONNECTORS. CRAMP CONNECTORS SHALL NOT BE USED ON SOLID CONDUCTORS. CLAMPS MUST BE USED FOR FENCE AND HANDRAIL CONNECTION.
 - ALL GROUNDING CONNECTIONS TO THE GROUND BAR OR GROUND PLATE, INTAKE AND EXHAUST EXHAUST, A/C UNIT AND CABLE BRIDGE SHALL BE MADE WITH TWO-HOLE LONG-BURIED THREE COMPRESSION LUGS (BURNED OR EQUAL). ALL LUGS ATTACHED TO BUSHES USING BOLTS, NUTS AND LOCK WASHERS.
 - ALL WIRE CONNECTORS SHALL BE THREE-CLAMP C-TAP COMPRESSION THOMAS & BETTS (#5474) CHANGE OR EQUIVALENT.
 - ALL CONNECTORS SHALL BE CRAFTED USING HYDRAULIC CRAMPING TOOLS, 128 ITEM # OR EQUIVALENT.
 - ALL CONNECTORS SHALL BE MADE TO BARE METAL. ALL PAINTED SURFACES SHALL BE FIELD TO ENSURE PROPER CONTACT. NO WASHERS ARE ALLOWED BETWEEN RODS BEING GROUNDING. ALL CONNECTIONS ARE TO HAVE AN ANTI-OXIDIZING AGENT APPLIED PRIOR TO INSTALLATION.
 - FOR CONNECTION TO ALUMINUM FASCIA AND ALUMINUM CRANEL GUARD, ALUMINUM CONDUCTORS SHALL BE USED WITH APPROVED MECHANICAL CONNECTIONS BETWEEN ALUMINUM GROUND AND COPPER. ALL ALUMINUM CONDUCTORS SHALL BE TWO SIZES GREATER THAN THE SPECIFIED COPPER SIZE.
 - WHERE ANY GROUNDING CONDUCTOR PASSES THROUGH METAL CONDUIT, BOTH ENDS OF CONDUIT SHALL BE GROUNDING.
 - ALL BONDS SHALL BE AT SHALLOW AS POSSIBLE WITH NO TURN SHORTER THAN AN 8" RICH MINIMUM RADIUS.
 - GROUNDING RESISTANCE SHALL NOT EXCEED 5.0 OHMS. THE TEST WILL CONSIST OF THE THREE-PHASE FULL-LOAD HEAVY TEST METHOD USING THE PROBE WALL BRIDGE. EARTH TESTER (FISHER F5020-2 OR EQUIVALENT). AT NO TIME IS THE A/C CLAMP-ON GROUND RESISTANCE TESTER TO BE USED. NO CLAMP-ON THE LOOP AND NOT THE SYSTEM.
 - GROUNDING CONNECTIONS TO ANTENNA WAVE SHALL BE MADE WITH HEAVY DUTY GROUND CLAMPS SIMILAR TO THOMAS & BETTS OR APPROVED EQUAL.
 - ANTENNA CABLE RESSAL TO PROVIDE GROUNDING BUS BAR AT BOTTOM & TOP OF TOWER FOR ANTENNA CABLE GROUNDING. DOWNWARD LEADS FROM GROUNDING MUST BE USED.
 - CPS ANTENNA MOUNTS GROUNDING TO ESB WITH ONE #6 WIRE EACH. CPS CABLES SHALL HAVE ONE GROUNDING SHIELDING AS THE HANDRAILS AND DOWN CONDUCTORS TO THE EXTERIOR GROUND BAR.
 - WALLGUIDE PORT AND BRIDGE ARE TO BE GROUNDING TO THE ESB WITH #8 SOLID WIRE CONNECTIONS AND GROUNDING LUG-SCREWS. SCREWED MECHANICAL CONNECTIONS WITH STANDSTAYS AND NUTS AND BRIDGES.
 - CONTRACTOR SHALL LOCATE AND PRESERVE EXISTING THE EXISTING GROUND RING.
 - THE CONTRACTOR IS TO CONTACT THE DISTRIBUTOR, KIRITAN CORP. (800) 579-8281, A MEMBER OF P&S GROUP PRIOR TO EXPECTED INSTALLATION DATE TO ARRANGE FOR SHIPPING AND RECEIVING OF CHEMICAL GROUNDING SYSTEM. THE SITE NAME, NUMBER AND PROJECT ADDRESS MUST BE OPEN TO KIRITAN CORP.
 - SOA RESISTANCE TEST MUST BE PERFORMED BY DAN DEVELOPMENT, INC. (DIME LABORATORY), AT (518) 481-2949.
 - TECTONIC TAKES NO RESPONSIBILITY OR LIABILITY FOR GROUNDING ON THIS SITE. THIS IS A STANDARD GROUNDING SYSTEM SHOWN PER NEXTEL DESIGN.



185 LITTLE BROWN ROAD
NEW BRUNSWICK, NEW YORK 11753
(845) 367-8458

NEXTEL

PROJECT NUMBER: 1170.2295
ISSUED BY: RUS
NO. DATE ISSUE
1 12/1/01 FOR REVIEW
1 12/10/01 FOR PERMIT

RELEASED BY: Larry Bots
DATE: 1/1/01

APPROVALS
CONSTRUCTION: DATE: _____
LEASING: DATE: _____
RS: DATE: _____
ZONING: DATE: _____
OWNER: DATE: _____
NETWORK ENG: DATE: _____

NY-2296
LAGRANGE NORTH
CON-ED TOWER L-17
ROSSWAY ROAD
LAGRANGE, NY
12569

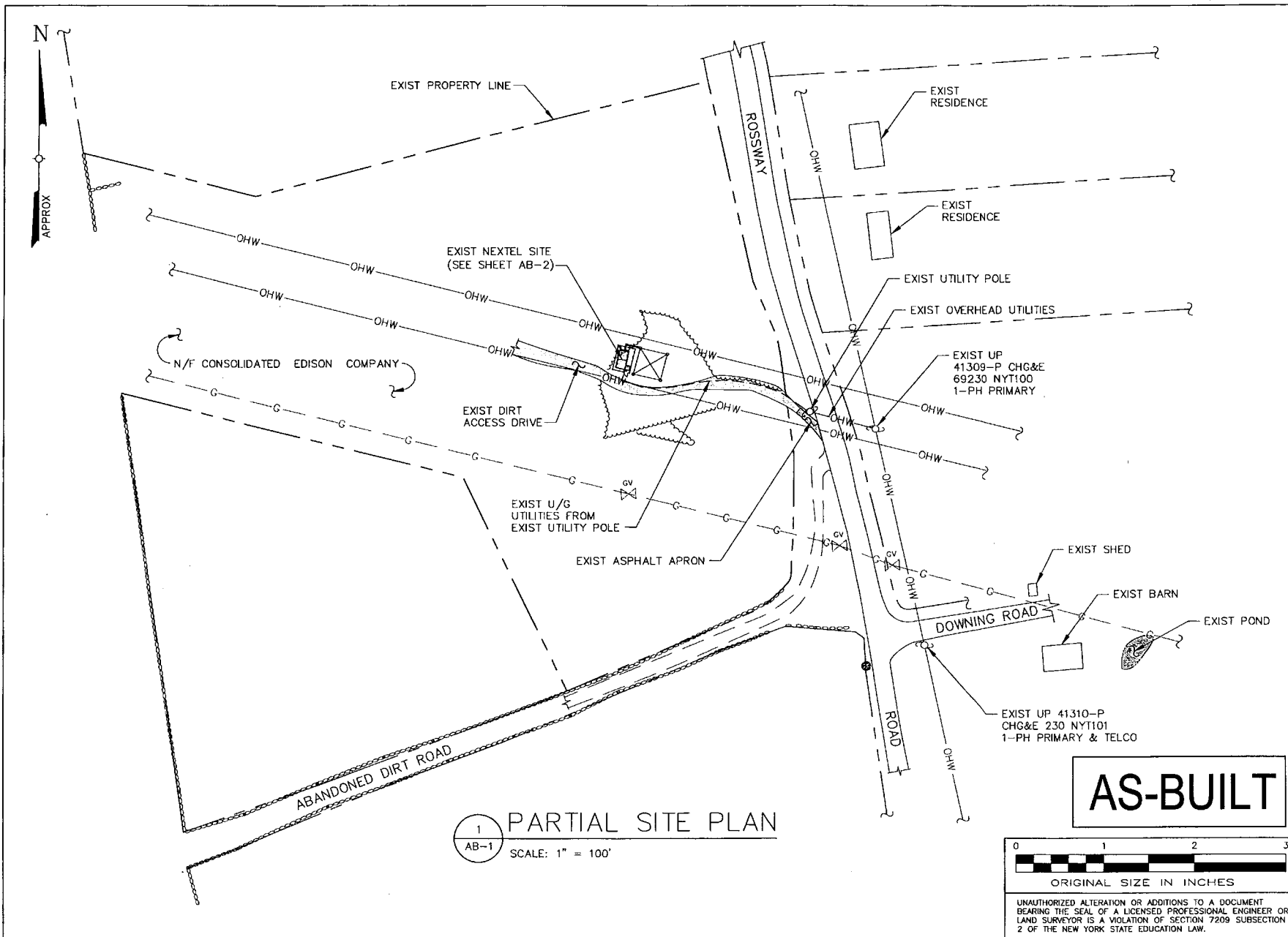
NEXTEL OF NEW YORK, INC.
DBA NEXTEL COMMUNICATIONS
ONE NORTH BROADWAY
WHITE PLAINS, NEW YORK 10601
OFFICE: (914) 421-2800
FAX: (914) 421-2700

GROUNDING PLAN,
DETAILS & NOTES

SHEET NUMBER
E-3



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ORIGINAL SIZE IN INCHES



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Consultants P.C.

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Newburgh, NY 12550
Phone: (845) 567-6656
Fax: (845) 567-8703

NEXTEL

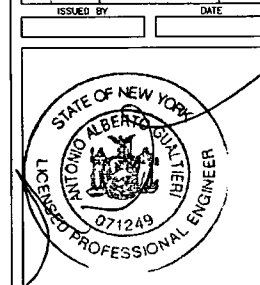
APPROVALS

OWNPOINT _____
LANDLORD _____
RF _____
CONSTRUCTION _____

PROJECT NUMBER 1170.2296 DESIGNED BY TN

REV	DATE	REVISION	DRAWN BY
1	1/28/09	AS BUILT	RWB
2	3/5/09	REVISED CALLOUT	LH

ISSUED BY _____ DATE _____



SITE INFORMATION

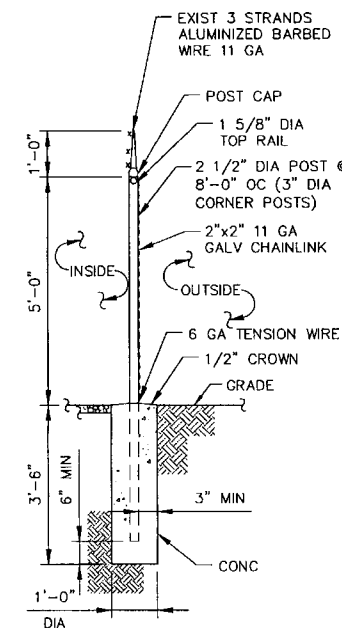
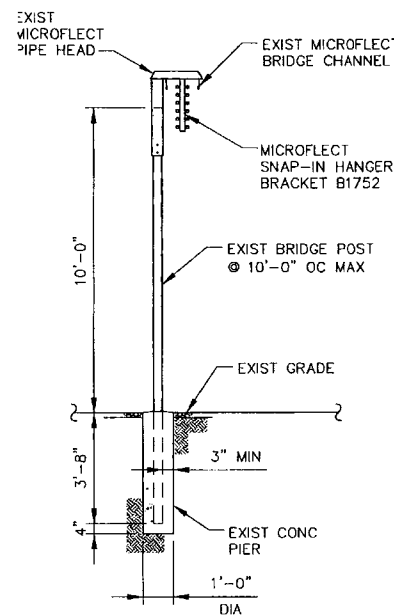
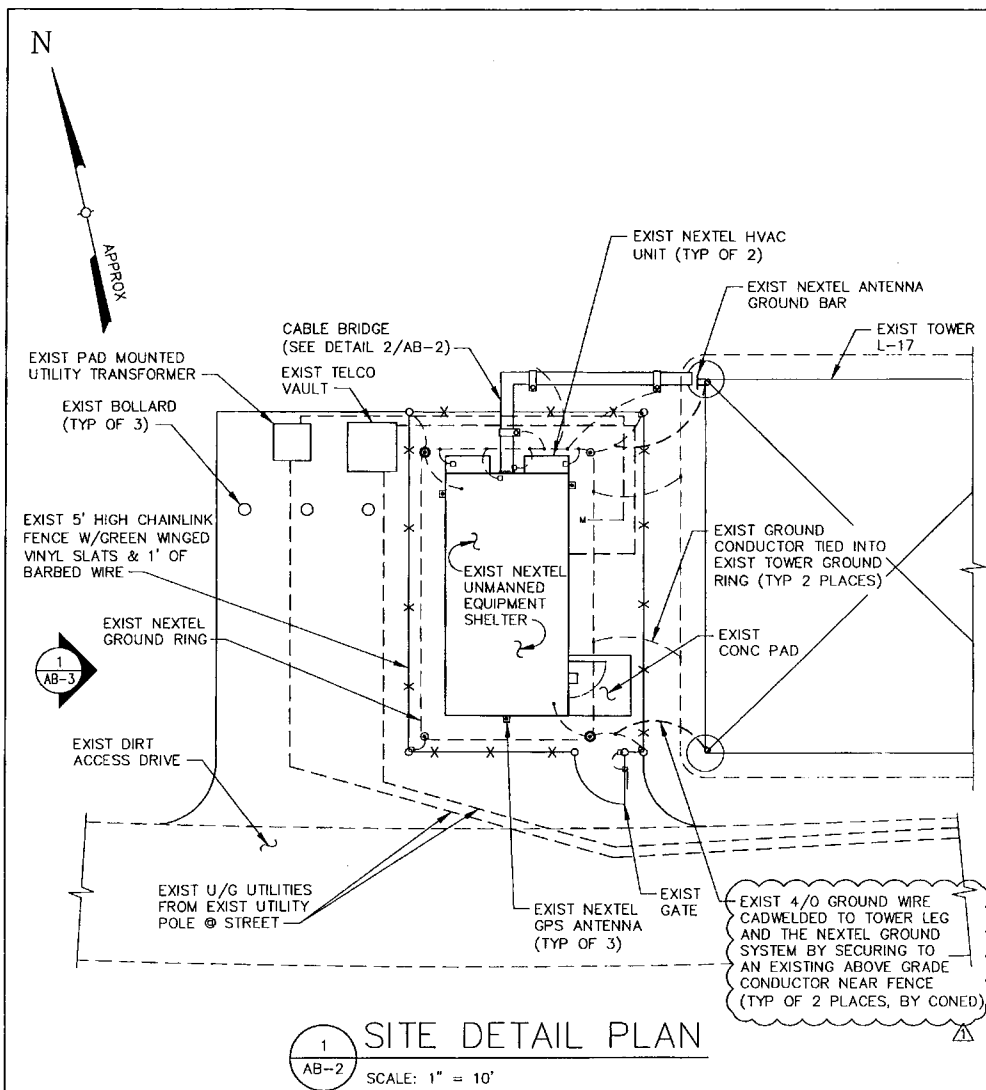
NY-2296
LAGRANGE NORTH
CON-ED TOWER L-17
ROSSWAY ROAD
LAGRANGE, NY
12569

4216.MASTER TASK - 13.18
SHEET TITLE

SITE PLAN

SHEET NUMBER

AB-1



AS-BUILT



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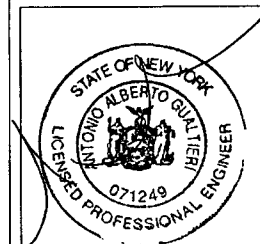
TECTONIC Engineering & Surveying Consultants P.C.

1278 Route 300
Newburgh, NY 12550
Phone: (845) 567-6656
Fax: (845) 567-8703

NEXTEL

APPROVALS			
OWNER	DESIGNED BY		
LANDLORD	1170.2286	TN	
RF	CONSTRUCTION		
REV	DATE	REVISION	DRAWN BY
1	1/28/09	AS BUILT	RMB
2	3/5/09	REVISED CALLOUT	LH

ISSUED BY DATE



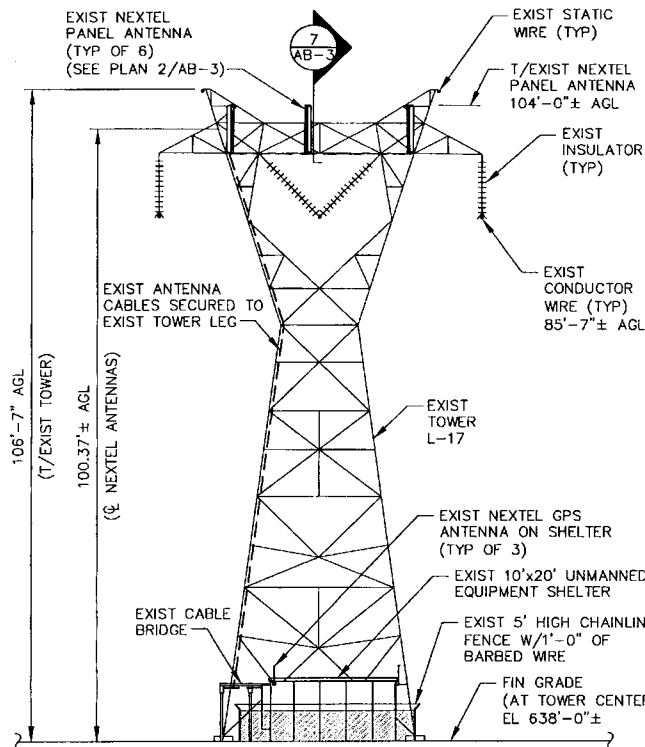
NY-2296
LAGRANGE NORTH
CON-ED TOWER L-17
ROSSWAY ROAD
LAGRANGE, NY
12569

4216 MASTER TASK - 13.18
SHEET TITLE

SITE DETAIL PLAN
& DETAILS

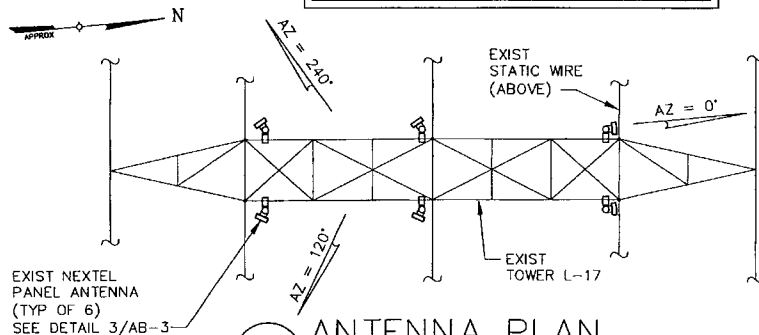
SHEET NUMBER

AB-2

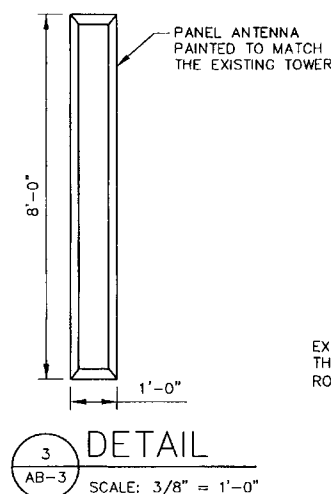


1
AB-3
ELEVATION
SCALE: 1" = 20'

NO REINFORCEMENT TO THE TOWER WAS REQUIRED FOR THIS AS-BUILT CONDITION AS PER A STRUCTURAL ANALYSIS PERFORMED BY TECTONIC ENGINEERING, DATED 8/24/00.

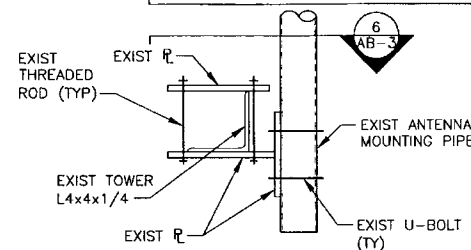


2
AB-3
ANTENNA PLAN
SCALE: 1" = 10'

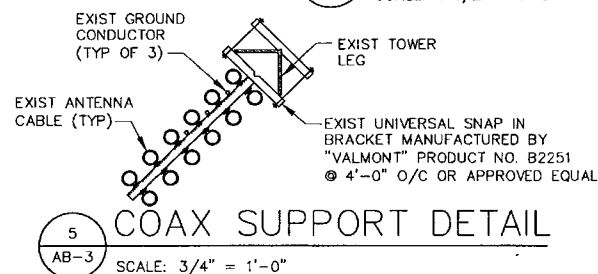


ANTENNA DATA

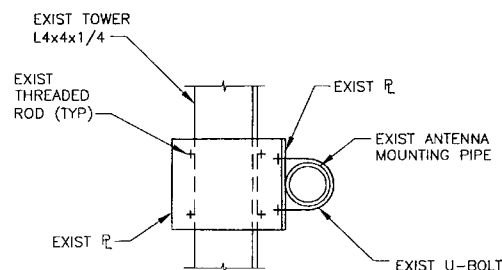
ANTENNA SPECIFICATIONS					
SECTOR	MODEL	ANT. QTY	CABLE SIZE	CABLE QTY	AZIMUTH
ALPHA	FQ90-09-XXXX-2	2	7/8"	4	0°
BETA	FQ90-09-XXXX-2	2	7/8"	4	120°
GAMMA	FQ90-09-XXXX-2	2	7/8"	4	240°
EMS WIRELESS ANTENNA		FQ90-09-XXXX-2			
HEIGHT		96"			
WIDTH		12"			
DEPTH		7"			
WEIGHT		36 LBS			
WIND AREA		8.0 SF			



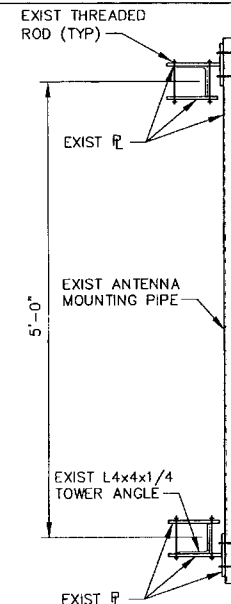
4
AB-3
DETAIL
SCALE: 1 1/2" = 1'-0"



5
AB-3
COAX SUPPORT DETAIL
SCALE: 3/4" = 1'-0"

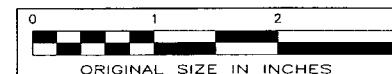


6
AB-3
SECTION
SCALE: 1 1/2" = 1'-0"



7
AB-3
SECTION
SCALE: 3/4" = 1'-0"

AS-BUILT



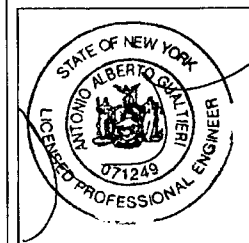
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Newburgh, NY 12550
Phone: (845) 567-6856
Fax: (845) 567-6703

NEXTEL

APPROVALS	
OWNPOINT	
LANDLORD	
RF	
CONSTRUCTION	
PROJECT NUMBER	DESIGNED BY
1170.2296	TH
REV	DATE
1/28/09	AS BUILT
3/5/09	REVISED CALLOUT
DRAWN	BY
RWB	LH
ISSUED BY	DATE



NY-2296
LAGRANGE NORTH
CON-ED TOWER L-17
ROSSWAY ROAD
LAGRANGE, NY
12569

4216.MASTER TASK - 13.18

ELEVATION &
ANTENNA PLAN

AB-3

Rob Gaudioso
Snyder & Snyder
94 White Plains Road
Tarrytown, NY 10591

June 5, 2000

**RE: W.O. 1170.2296
NEXTEL SITE NY-2296, LAGRANGE NORTH
EXISTING CON-ED TRANSMISSION TOWER L-17
LAGRANGE, NY
STRUCTURAL DESIGN REQUIREMENTS**

Dear Rob:

The existing Con-Edison transmission tower L-17 is a single-circuit 0°-3° suspension tower, similar to several other transmission towers on the L-line. The tower was designed by Con-Ed, based on their standard specifications.

The design of electrical transmission towers is governed by the National Electrical Safety Code (NESC) and ASCE 10 "Design of Latticed Steel Transmission Towers". Additional design constraints are imposed by the electrical utility to accommodate local conditions.

The design of the antenna supports is governed by ANSI/TIA/EIA-222-F-1996 "Structural Standards for Steel Antenna Towers and Antenna Supporting Structures". This standard specifies that a basic wind speed of 75 mph be used for the design of these structures in Dutchess County. This is equivalent to the wind pressure specified by the New York State Uniform Fire Prevention and Building Code, which is based on a wind speed of only 75 mph.

The proposed antennas will be attached directly to the tower structure. The proposed antenna attachment is designed in accordance with the above national standard, which exceeds the requirements of the New York State code.

Please contact me if you require any further information.

Sincerely,
TECTONIC ENGINEERING CONSULTANTS P.C.



Jeffrey B. Kirby, P.E.
Chief Structural Engineer

file jk142/Nextel/2296StrDesign

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Mountainville, NY (800) 829-6531

TECTONIC Engineering & Surveying Consultants P.C.
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Newburgh, NY 12550

(845) 567-6656 FAX: (845) 567-8703
www.tectonicengineering.com

Robert Shuman, P.E.
Central Engineering
Consolidated Edison Company of NY, Inc.
4 Irving Place - Room 1428
New York, NY 10003
(212) 460-2932

December 12, 2008

**RE: TECTONIC W.O. 4216.MASTER, TASK 13.18
NEXTEL INSTALLATION AT CON-ED TOWER L-017
ROSSWAY ROAD, LAGRANGE, NY
STRUCTURAL EVALUATION LETTER- REVISION 1**

Mr. Shuman,

Our structural analysis report for this transmission tower, dated August 24, 2000, was based on the installation of the following coax cables by Nextel:

Original Coax Specifications per the Structural Report

(24) 7/8" Cables installed on 3 separate tower legs (8 per leg)

OD/cable: 1.09"

Weight/cable: 0.33 lbs/ft

Projected Width: 8.72 in/ft (per leg)

Total WT (97' length): 256 lb/leg

Based on a limited visual inspection by Tectonic at the referenced site on 9/11/08, Nextel's installation on the tower consists of the following:

Existing Conditions

(12) 7/8" Cable stacked on a tower leg

OD/cable: 1.09"

Weight/cable: 0.33 lbs/ft

Projected Width (stacked): 6.54 in/ft

Total WT (for 97' length): 384 lbs

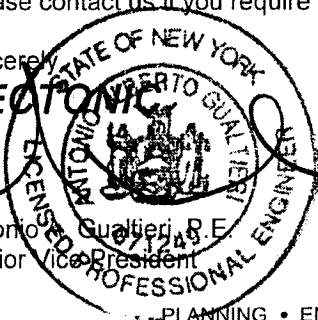
The installed coax configuration outlined above shows a 2.18 in/ft decrease in the projected width and a 1.32 lbs/ft (total of 128 lb) increase in weight on the leg. Based on the tower geometry, size and the fact that the maximum stressed member (member 481, x-arm at elevation 96-106) is only at 78% of its actual allowable capacity, it is our professional opinion that the tower has adequate reserve capacity to support Nextel's installation in its existing configuration. No structural problems for the tower are anticipated and no modifications are necessary.

Please contact us if you require any additional information.

Sincerely,

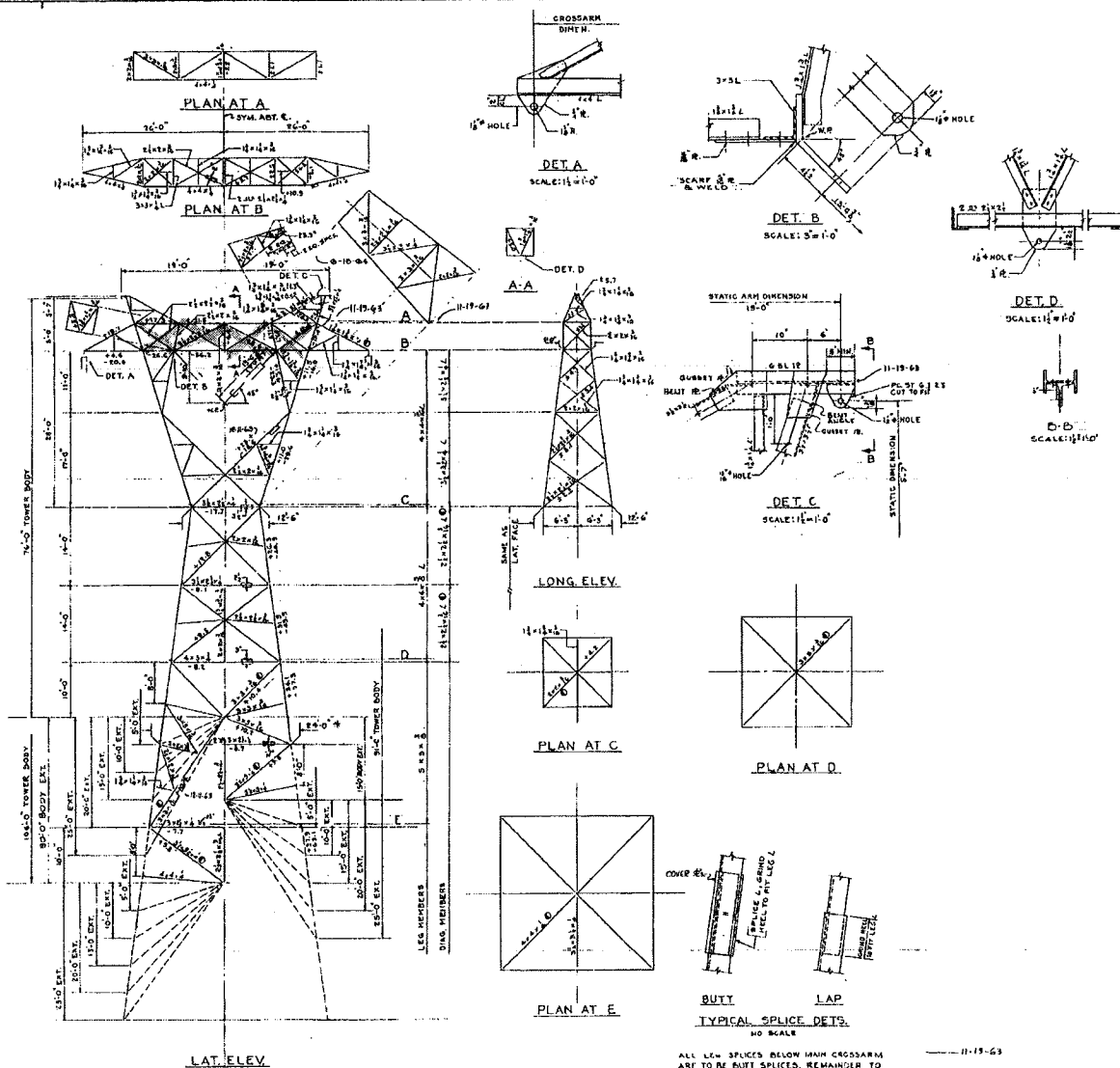
TECTONIC

Antonio Gualtieri, P.E.
Senior Vice President



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GENERAL NOTES:
GUSSET PLATE TO BE 3" THICK MINIMUM FOR 3" BOLTS / 1/2" THICK FOR 1" BOLTS.
ALL STEEL TO BE A36 STEEL, EXCEPT AS NOTED.
ALL STEEL TO BE HOT DIP GALVANIZED IN ACCORDANCE WITH THE LATEST EDITIONS OF THE AISC SPECIFICATION AND BEFORE
ASSEMBLY.
ALL JOINTS TO BE CONTINUOUS.
ALL JOINTS TO BE WELDED, WITHOUT STITCHES TO HAVE ONE
BOLT COUNTS OTHERS TO HAVE A MINIMUM OF TWO BOLT COUNTS.
FOR TOWER BRACES, HAVING THREE OR MORE BOLTS, THE CENTER OF THE
DISTANCE OF AND HOLE SHALL BE LOCATED ACCORDING TO THE FOLLOWING
FOR LENGTHS, 12" TO 18", NO. 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143, 144, 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155, 156, 157, 158, 159, 160, 161, 162, 163, 164, 165, 166, 167, 168, 169, 170, 171, 172, 173, 174, 175, 176, 177, 178, 179, 180, 181, 182, 183, 184, 185, 186, 187, 188, 189, 190, 191, 192, 193, 194, 195, 196, 197, 198, 199, 200, 201, 202, 203, 204, 205, 206, 207, 208, 209, 210, 211, 212, 213, 214, 215, 216, 217, 218, 219, 220, 221, 222, 223, 224, 225, 226, 227, 228, 229, 230, 231, 232, 233, 234, 235, 236, 237, 238, 239, 240, 241, 242, 243, 244, 245, 246, 247, 248, 249, 250, 251, 252, 253, 254, 255, 256, 257, 258, 259, 260, 261, 262, 263, 264, 265, 266, 267, 268, 269, 270, 271, 272, 273, 274, 275, 276, 277, 278, 279, 280, 281, 282, 283, 284, 285, 286, 287, 288, 289, 290, 291, 292, 293, 294, 295, 296, 297, 298, 299, 300, 301, 302, 303, 304, 305, 306, 307, 308, 309, 310, 311, 312, 313, 314, 315, 316, 317, 318, 319, 320, 321, 322, 323, 324, 325, 326, 327, 328, 329, 330, 331, 332, 333, 334, 335, 336, 337, 338, 339, 340, 341, 342, 343, 344, 345, 346, 347, 348, 349, 350, 351, 352, 353, 354, 355, 356, 357, 358, 359, 360, 361, 362, 363, 364, 365, 366, 367, 368, 369, 370, 371, 372, 373, 374, 375, 376, 377, 378, 379, 380, 381, 382, 383, 384, 385, 386, 387, 388, 389, 390, 391, 392, 393, 394, 395, 396, 397, 398, 399, 400, 401, 402, 403, 404, 405, 406, 407, 408, 409, 410, 411, 412, 413, 414, 415, 416, 417, 418, 419, 420, 421, 422, 423, 424, 425, 426, 427, 428, 429, 430, 431, 432, 433, 434, 435, 436, 437, 438, 439, 440, 441, 442, 443, 444, 445, 446, 447, 448, 449, 450, 451, 452, 453, 454, 455, 456, 457, 458, 459, 460, 461, 462, 463, 464, 465, 466, 467, 468, 469, 470, 471, 472, 473, 474, 475, 476, 477, 478, 479, 480, 481, 482, 483, 484, 485, 486, 487, 488, 489, 490, 491, 492, 493, 494, 495, 496, 497, 498, 499, 500, 501, 502, 503, 504, 505, 506, 507, 508, 509, 510, 511, 512, 513, 514, 515, 516, 517, 518, 519, 520, 521, 522, 523, 524, 525, 526, 527, 528, 529, 530, 531, 532, 533, 534, 535, 536, 537, 538, 539, 540, 541, 542, 543, 544, 545, 546, 547, 548, 549, 550, 551, 552, 553, 554, 555, 556, 557, 558, 559, 560, 561, 562, 563, 564, 565, 566, 567, 568, 569, 570, 571, 572, 573, 574, 575, 576, 577, 578, 579, 580, 581, 582, 583, 584, 585, 586, 587, 588, 589, 590, 591, 592, 593, 594, 595, 596, 597, 598, 599, 600, 601, 602, 603, 604, 605, 606, 607, 608, 609, 610, 611, 612, 613, 614, 615, 616, 617, 618, 619, 620, 621, 622, 623, 624, 625, 626, 627, 628, 629, 630, 631, 632, 633, 634, 635, 636, 637, 638, 639, 640, 641, 642, 643, 644, 645, 646, 647, 648, 649, 650, 651, 652, 653, 654, 655, 656, 657, 658, 659, 660, 661, 662, 663, 664, 665, 666, 667, 668, 669, 670, 671, 672, 673, 674, 675, 676, 677, 678, 679, 680, 681, 682, 683, 684, 685, 686, 687, 688, 689, 690, 691, 692, 693, 694, 695, 696, 697, 698, 699, 700, 701, 702, 703, 704, 705, 706, 707, 708, 709, 710, 711, 712, 713, 714, 715, 716, 717, 718, 719, 720, 721, 722, 723, 724, 725, 726, 727, 728, 729, 730, 731, 732, 733, 734, 735, 736, 737, 738, 739, 740, 741, 742, 743, 744, 745, 746, 747, 748, 749, 750, 751, 752, 753, 754, 755, 756, 757, 758, 759, 760, 761, 762, 763, 764, 765, 766, 767, 768, 769, 770, 771, 772, 773, 774, 775, 776, 777, 778, 779, 780, 781, 782, 783, 784, 785, 786, 787, 788, 789, 790, 791, 792, 793, 794, 795, 796, 797, 798, 799, 800, 801, 802, 803, 804, 805, 806, 807, 808, 809, 810, 811, 812, 813, 814, 815, 816, 817, 818, 819, 820, 821, 822, 823, 824, 825, 826, 827, 828, 829, 830, 831, 832, 833, 834, 835, 836, 837, 838, 839, 840, 841, 842, 843, 844, 845, 846, 847, 848, 849, 850, 851, 852, 853, 854, 855, 856, 857, 858, 859, 860, 861, 862, 863, 864, 865, 866, 867, 868, 869, 870, 871, 872, 873, 874, 875, 876, 877, 878, 879, 880, 881, 882, 883, 884, 885, 886, 887, 888, 889, 890, 891, 892, 893, 894, 895, 896, 897, 898, 899, 900, 901, 902, 903, 904, 905, 906, 907, 908, 909, 910, 911, 912, 913, 914, 915, 916, 917, 918, 919, 920, 921, 922, 923, 924, 925, 926, 927, 928, 929, 930, 931, 932, 933, 934, 935, 936, 937, 938, 939, 940, 941, 942, 943, 944, 945, 946, 947, 948, 949, 950, 951, 952, 953, 954, 955, 956, 957, 958, 959, 960, 961, 962, 963, 964, 965, 966, 967, 968, 969, 970, 971, 972, 973, 974, 975, 976, 977, 978, 979, 980, 981, 982, 983, 984, 985, 986, 987, 988, 989, 990, 991, 992, 993, 994, 995, 996, 997, 998, 999, 1000.

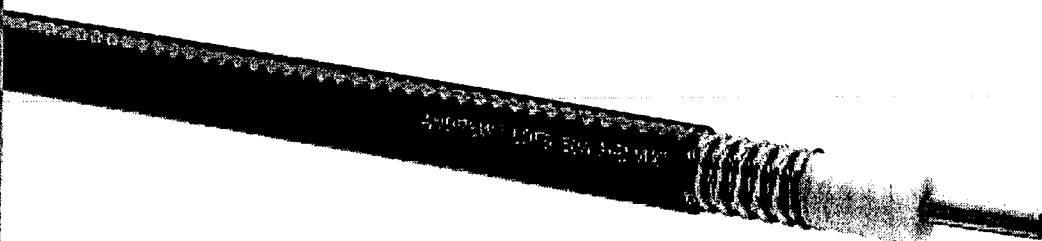
NOTES:
SCALE: 1/4" = 1'-0" EXCEPT AS NOTED.
EXCEPT AS NOTED, ALL DIMENSIONS ARE IN FEET AND INCHES.
STRESS ANALYSIS, E.O. 11502 A & E.O. 11508A
CONCRETE FORMS, E.O. 11514 A
ALL STRESSES SHOWN ARE ULTIMATE (X=1.0).
DIMENSION MUST BE HELD BY FABRICATOR.
TOWER EXTENSIONS, E.O. 11501 A
TYPE ET 0" TO 3"

APPROVED	DESIGNED FOR EDITION, NUMBER 10
TANGENT TOWER OUTLINE & DETAILS	
3450 OVERHEAD TRANSMISSION LINE PLEASANT VALLEY SUBSTATION TO CONNECTICUT STATE LINE	
CONSOLIDATED EDISON COMPANY OF N. Y., INC.	
DATE 8-13-63	DWG. NO. E.O. 11300A
LAST REV. 3-29-65	REV. 3

NO.	REVISION	DATE	BY	CHKD.	APP'D.
1	REVISED	8-13-63	J. H. HARRIS	J. H. HARRIS	J. H. HARRIS
2	REVISED	8-13-63	J. H. HARRIS	J. H. HARRIS	J. H. HARRIS
3	REVISED	8-13-63	J. H. HARRIS	J. H. HARRIS	J. H. HARRIS
4	REVISED	8-13-63	J. H. HARRIS	J. H. HARRIS	J. H. HARRIS
5	REVISED	8-13-63	J. H. HARRIS	J. H. HARRIS	J. H. HARRIS
6	REVISED	8-13-63	J. H. HARRIS	J. H. HARRIS	J. H. HARRIS
7	REVISED	8-13-63	J. H. HARRIS	J. H. HARRIS	J. H. HARRIS
8	REVISED	8-13-63	J. H. HARRIS	J. H. HARRIS	J. H. HARRIS
9	REVISED	8-13-63	J. H. HARRIS	J. H. HARRIS	J. H. HARRIS
10	REVISED	8-13-63	J. H. HARRIS	J. H. HARRIS	J. H. HARRIS

NO.	DATE	REVISIONS	BY	DATE	REVISIONS	BY	DATE	REVISIONS	BY
1	10/10/55			10/10/55			10/10/55		
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3	10/10/55			10/10/55			10/10/55		
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59	10/10/55			10/10/55			10/10/55		
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62	10/10/55			10/10/55			10/10/55		
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64	10/10/55			10/10/55			10/10/55		
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95	10/10/55			10/10/55			10/10/55		
96	10/10/55			10/10/55			10/10/55		
97	10/10/55			10/10/55			10/10/55		
98	10/10/55			10/10/55			10/10/55		
99	10/10/55			10/10/55			10/10/55		
100	10/10/55			10/10/55			10/10/55		

7/8" Foam Dielectric, LDF Series – 50-ohm



LDF5-50A

Description	Type No.
Cable Ordering Information	
Standard Cable	
7/8" Standard Cable, Standard Jacket	LDF5-50A
Fire Retardant Cable	
7/8" Fire Retardant Jacket (CATVR)	LDF5RN-50A
Low VSWR and Specialized Cables	
7/8" Low VSWR, specify operating band	LDF5P-50A-(**)

** Insert suffix number from "Low VSWR Specifications" table, page 508.

Characteristics

Electrical	
Impedance, ohms	50 ± 1
Maximum Frequency, GHz	5.0
Velocity, percent	89
Peak Power Rating, kW	91
dc Resistance, ohms/1000 ft (1000 m)	
Inner	0.32 (1.05)
Outer	0.36 (1.18)
dc Breakdown, volts	6000
Jacket Spark, volts RMS	8000
Capacitance, pF/ft (m)	22.8 (75.0)
Inductance, pH/ft (m)	0.057 (0.187)
Mechanical	
Outer Conductor	Copper
Inner Conductor	Copper
Diameter over Jacket, in (mm)	1.09 (28)
Diameter over Copper Outer Conductor, in (mm)	0.98 (24.9)
Diameter Inner Conductor, in (mm)	0.355 (9.0)
Nominal Inside Transverse Dimensions, cm	2.11
Minimum Bending Radius, in (mm)	10 (250)
Number of Bends, minimum (typical)	15 (50)
Bending Moment, lb-ft (N·m)	12 (16.3)
Cable Weight, lb/ft (kg/m)	0.33 (0.49)
Tensile Strength, lb (kg)	325 (147)
Flat Plate Crush Strength, lb/in (kg/mm)	80 (1.4)

* A 75-ohm 7/8" diameter cable is available. Contact Andrew for further information.

Attenuation and Average Power

Frequency MHz	Attenuation dB/100 ft	Attenuation dB/100 m	Average Power, kW
0.5	0.025	0.081	91.0
1	0.035	0.115	78.6
1.5	0.043	0.141	64.1
2	0.050	0.163	55.5
10	0.112	0.366	24.6
20	0.159	0.521	17.3
30	0.195	0.641	14.1
50	0.254	0.833	10.8
88	0.340	1.12	8.08
100	0.364	1.19	7.56
108	0.378	1.24	7.26
150	0.449	1.47	6.12
174	0.486	1.59	5.66
200	0.523	1.72	5.26
300	0.649	2.13	4.24
400	0.758	2.49	3.63
450	0.808	2.65	3.41
500	0.855	2.81	3.22
512	0.866	2.84	3.17
600	0.945	3.10	2.91
700	1.03	3.37	2.67
800	1.11	3.63	2.48
824	1.13	3.69	2.44
894	1.18	3.87	2.34
960	1.23	4.02	2.24
1000	1.25	4.12	2.19
1250	1.42	4.67	1.93
1500	1.58	5.18	1.74
1700	1.70	5.56	1.62
1800	1.75	5.75	1.57
2000	1.86	6.11	1.48
2100	1.92	6.29	1.44
2200	1.97	6.46	1.40
2300	2.02	6.63	1.36
3000	2.37	7.76	1.16
3400	2.55	8.37	1.08
4000	2.81	9.23	0.978
5000	3.23	10.6	0.853

Standard Conditions:

For Attenuation, VSWR 1.0, ambient temperature 20°C (68°F).

For Average Power, VSWR 1.0, ambient temperature 40°C (104°F), inner conductor temperature 100°C (212°F); no solar loading.

STRUCTURAL DESIGN CALCULATIONS
LEAD SHEET
W.O. 3722.2296 (CON EDISON TOWER L-17)

Nextel

PURPOSE

Design the extension of an existing antenna mount for a single Nextel antenna on Con Ed Tower L-17.

REFERENCES

- ANSI/EIA/TIA-222-F-1996 "Structural Standards for Steel Antenna Towers and Antenna Supporting Structures"
 American Institute of Steel Construction "Manual of Steel Construction: Allowable Stress Design, 9th Edition", 1989.
 "Purchase and Test Manual No. 6 – Section 21, Lattice Steel Transmission Towers", EO-1018-1, dated 6/21/76.
 "Con-Edison Transmission System – P.C.S. Antenna / Cellular Installation Procedure", dated 5/00.
 "Structural Analysis Report, Nextel: Lagrange North, Existing 106'-7" Con-Edison Tower L-17", by Tectonic, W.O. 1170.2296, dated 8/24/00.

ASSUMPTIONS

1. Because of sparsely spaced members, the no ice condition governs the design.

PROCEDURE

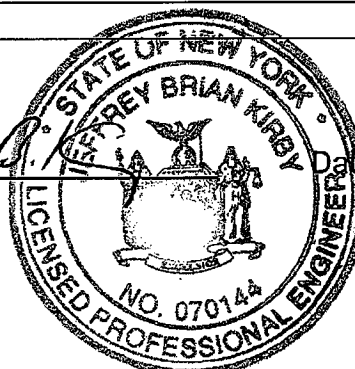
1. Calculate wind load on the proposed antennas and mount based on TIA/EIA.
2. Set up and apply loads to RISA-3D model, using geometry provided in Tectonic drawings, looking at wind acting from multiple directions.
3. Perform spot checks of RISA-3D capacity calculations to ensure model accuracy.
4. Redesign structural members or connections as necessary if they are not adequate to support their maximum loads.

RESULTS/CONCLUSIONS

See drawing for details.

DRAWING COORDINATION

Dwg No	Date	Title	Checked By:
AD-1	2/24/04	Addendum	<i>J.B.K.</i>

Reviewed By: *J.B.K.*Date: 2/24/04

TECTONIC

Mountainville, NY
Albany, NY
Cincinnati, OH
Hartford, CT
Northborough, MA
Richmond, VA
(800) 829-6531

JOB 3722.2296
SHEET NO. 1 OF 1
CALCULATED BY RSD DATE 2/11/04
CHECKED BY JPK DATE 2/23/04
SCALE

- CALCULATE LOAD ON ANTENNA & MOUNT, PER TIA/EIA

LOCATION: LAGRANGE, NY, $V = 70$ MPH (ORANGE COUNTY, TIA/EIA)
 $= 75$ MPH (90 MPH 3-5, BCNYS) $\leftarrow$ CONTROLS

$$Z = 97', K_z = \left(\frac{97}{123}\right)^{2.7} = 1.36, G_H = 0.65 + \frac{0.60}{\left(\frac{16.58}{33}\right)^{1.7}} = 1.16$$

$$q_z G_H = 0.00256 (K_z)^2 \left(\frac{V}{15}\right)^2 (G_H) = 22.7 \text{ psf}$$

$$C_{AA} \text{ (ANTENNA-ENS FQ90-09)} = 1.43 (8 \text{ ft})^2 = 11.4 \text{ ft}^2 \left(\begin{matrix} 65\# \text{ TOP SUPP / FQ90} \\ 130\# \text{ MIDDLE SUPP} \end{matrix} \right)$$

$$C_{AA} \text{ (MTG PIPE)} = 1.20 \left(\frac{3.75}{12}\right) (8.5') = 2.0 \text{ ft}^2 (53\#/\text{ft})$$

$$C_{AA} \text{ (ANGLE SUPP)} = 1.4 \left(\frac{5}{12}\right) (3') = 1.8 \text{ ft}^2 (13.6\#/\text{ft})$$

$$C_{AA} \text{ (DIAGONAL BRCE)} = 2.0 \left(\frac{2}{12}\right) (5.5') = 1.8 \text{ ft}^2 (7.4\#/\text{ft})$$

$$C_{AA} \text{ (HORIZ DIA BRCE)} = 1.53 \left(\frac{3}{12}\right) (3.2') = 1.2 \text{ ft}^2 (8.5\#/\text{ft})$$

APPLY ABOVE LOADS TO RISA MODEL (SEE ATTACHED)

MEMBER CAPACITIES HAVE BEEN CHECKED IN RISA-3D

SPOT CHECKS: M_6 : AXIAL = 0.452^k FROM RISA, $L = 3.2'$, $r_2 = 0.585"$

$$b/t = 3' / 0.25" = 12 < \frac{76}{\sqrt{36}} = 12.66, Q = 1, K/r = 1.0 (3.2') (12) / 0.25" = 65.6 \rightarrow 66$$

$$F_a = 16.84 \text{ ksi} \left(\frac{1}{2} \right) (1.44 \text{ in}^2) = 32.3^k$$

$$\frac{0.452^k}{32.3^k} = 0.014 - \text{MATCHES RISA}$$

TECTONIC

Mountainville, NY
Albany, NY
Cincinnati, OH
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Richmond, VA
(800) 829-6531

JOB

3722.2296

SHEET NO.

2

OF

CALCULATED BY

RSD

DATE

2/11/04

CHECKED BY

JRK

DATE

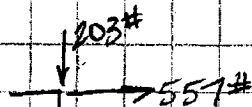
2/23/04

SCALE

$$M_1: M_{max} = 0.569^k, 2" \text{ STD PIPE}, F_b = 0.66(35^k)(1/3) = 30.8^k$$

$$f_b = \frac{0.569^k(12)}{0.561 \text{ in}^2} = 12.06^k, \frac{12.06}{30.8} = 0.392 - \text{SIMILAR TO P18 (0.394)}$$

-CHECK EXISTING ANGLE, PER CON-ED CRITERIA
MAXIMUM REACTIONS



EXIST $4 \times 4 \times 1/4$, $L = 7.91'$, $C_{MAX} (\text{PER TBC MAX 1.9}) = 2.94^k$

ASSUME $A_n = 0.75 A_g = 0.75(1.94 \text{ in}^2) = 1.46 \text{ in}^2$

$T_{MAX} = 13.21^k$ ← WILL GOVERN BY INSPECTIONS
 $T_{MAX} = 9.66^k$ (LEFT WIND) CON-ED EMERGENCY ICE
USE →

INCREASE REACTIONS BY FACTOR OF 1.25 TO COMPARATIVELY CHECK

$$f_b = \frac{(1.25(557^k)(1/3(7.91'))^2(1/3(7.91'))}{7.91'} (12) = 41.0^k$$

$$1.05 \text{ in}^3 (1000)$$

$$b = 4 - 0.25/2 = 3.875"$$

$$f_a = \frac{9.66^k}{1.46 \text{ in}^2} = 6.6^k$$

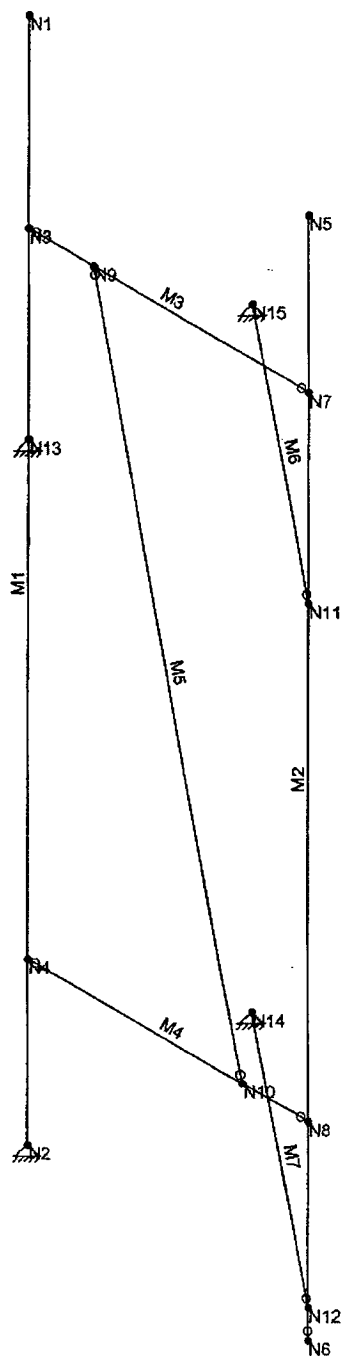
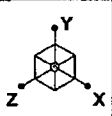
$$M_e = \frac{0.66(29000)(3.875)(0.25)}{(7.91 \times 12)^2} \left[\sqrt{1 + \frac{0.81(7.91 \times 12)^2(0.25)^2}{3.875^4}} \right] \pm 1$$

$$M_e = 88.45^k$$

$$M_{yc} = 1.05 \text{ in}^3 (36^k) = 37.8^k$$

$$M_b = 37.8^k \left(1 - \frac{37.8}{4(88.45)} \right) \frac{1}{322} + \frac{6.6}{76}$$

$$= 33.76^k, f_b = \frac{33.76^k}{1.05 \text{ in}^3} = 32.2^k = \frac{0.62}{1.00} \text{ OK}$$



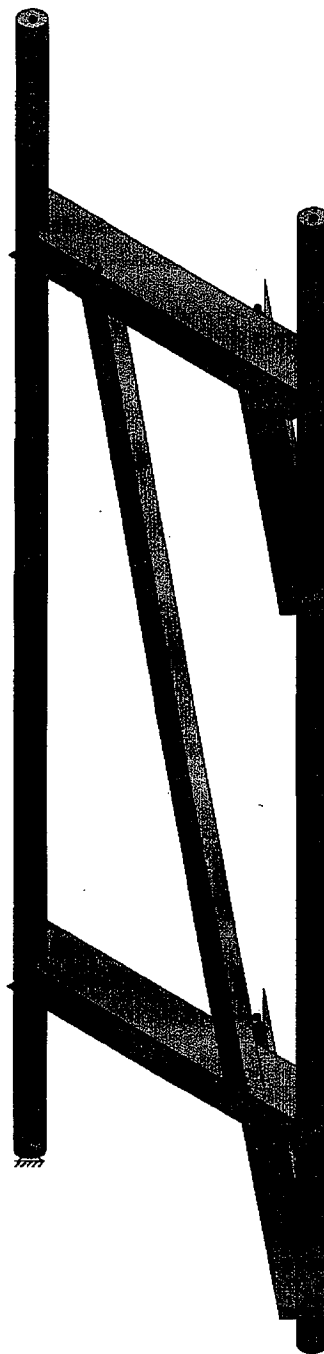
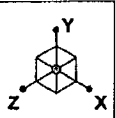
Solution: Envelope

Tectonic Engineering

mach410

Feb 11, 2004 at 10:31 AM

LagrangeNorth-AntMount.r3d



Solution: Envelope

Tectonic Engineering

mach410

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LagrangeNorth-AntMount.r3d

Company : Tectonic Engineering
 Designer : mach410
 Job Number :

Feb 11, 2004
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Joint Coordinates and Temperatures

	Label	X [ft]	Y [ft]	Z [ft]	Temp [F]	Detach From Diaphragm
1	N1	0	8.5	0	0	
2	N2	0	0	0	0	
3	N3	0	6.917	0	0	
4	N4	0	1.417	0	0	
5	N5	2.5	8.25	0	0	
6	N6	2.5	-25	0	0	
7	N7	2.5	6.917	0	0	
8	N8	2.5	1.417	0	0	
9	N9	0.5833	6.91667	0	0	
10	N10	1.916667	1.41667	0	0	
11	N11	2.5	5.333334	0	0	
12	N12	2.5	0	0	0	
13	N13	0	5.333	0	0	
14	N14	0	0	-2	0	
15	N15	0	5.333	-2	0	

Basic Load Cases

	BLC Description	Category	X Gravity	Y Gravity	Z Gravity	Joint	Point	Distribut.	Area (...)	Surface (Plate)
1	Mount Dead Load	DL		-1.15						
2	Antenna Dead Load	DL				2	1			
3	Wind Load (+X)	WL+X				2	1	7		
4	Wind Load (+Z)	WL+Z				2	1	7		

Member Primary Data

	Label	I Joint	J Joint	K Joint	Rotate(deg)	Section/Shape	Design List	Type	Material	Design Rules
1	M1	N1	N2			PIPE 2.0	Pipe	Beam	A53 B	Typical
2	M2	N5	N6			PIPE 2.0	Pipe	Beam	A53 B	Typical
3	M3	N3	N7			L5X3X4	Single Angle	Beam	A36	Typical
4	M4	N4	N8			L5X3X4	Single Angle	Beam	A36	Typical
5	M5	N9	N10			L2X2X4	Single Angle	Beam	A36	Typical
6	M6	N15	N11			L3X3X4	Single Angle	Beam	A36	Typical
7	M7	N14	N12			L3X3X4	Single Angle	Beam	A36	Typical

Member Advanced Data

	Label	I Release	J Release	I Offset[in]	J Offset[in]	T/C Only	Physical	TOM	Inactive
1	M1						Yes		
2	M2		BenPIN				Yes		
3	M3	BenPIN	BenPIN				Yes		
4	M4	BenPIN	BenPIN				Yes		
5	M5	BenPIN	BenPIN				Yes		
6	M6		BenPIN				Yes		
7	M7		BenPIN				Yes		

Hot Rolled Steel Properties

	Label	E [ksi]	G [ksi]	Nu	Therm (1E5 F)	Density[k/ft^3]	Yield[ksi]
1	A36	29000	11154	.3	.65	.49	36
2	A572 50	29000	11154	.3	.65	.49	50
3	A992	29000	11154	.3	.65	.49	50
4	A500 42	29000	11154	.3	.65	.49	42
5	A500 46	29000	11154	.3	.65	.49	46

Company : Tectonic Engineering
 Designer : mach410
 Job Number :

Feb 11, 2004
 10:30 AM
 Checked By: _____

Hot Rolled Steel Properties (Continued)

	Label	E [ksi]	G [ksi]	Nu	Therm (1E5 F)	Density [k/ft^3]	Yield [ksi]
6	A53 B	29000	11154	3	.65	.49	35

Hot Rolled Steel Section Sets

	Label	Shape	Design List	Type	Material	Design Rules	A [in2]	Iyy [in4]	Izz [in4]	J [in4]
1	HR1A	W5X16	Wide Flange	Beam	A36	Typical	4.68	7.51	21.3	.19

Load Combinations

	Description	Sol.	PDelta	SRSS	BLC Factor	BLC Factor	BLC Factor	BLC Factor	BLC Factor	BLC Factor	BLC Factor	BLC Factor	BLC Factor	BLC Factor	BLC Factor
1	D+W (+X)	Yes			DL	1	3	1							
2	D+W (-X)	Yes			DL	1	3	-1							
3	D+W (+Z)	Yes			DL	1	4	1							
4	D+W (-Z)	Yes			DL	1	4	-1							
5	D+W (+X,+Z)	Yes			DL	1	3	.707	4	.707					
6	D+W (+X,-Z)	Yes			DL	1	3	.707	4	-.707					
7	D+W (-X,+Z)	Yes			DL	1	3	-.707	4	.707					
8	D+W (-X,-Z)	Yes			DL	1	3	-.707	4	-.707					

Joint Boundary Conditions

	Joint Label	X [k/in]	Y [k/in]	Z [k/in]	X Rot. [k-ft/rad]	Y Rot. [k-ft/rad]	Z Rot. [k-ft/rad]
1	N2	Reaction	Reaction	Reaction			
2	N13	Reaction	Reaction	Reaction			
3	N14	Reaction	Reaction	Reaction			
4	N15	Reaction	Reaction	Reaction			
5	N3						
6	N7					Fixed	
7	N4						
8	N8						
9	N1					Fixed	

Hot Rolled Steel Design Parameters

	Label	Shape	Length [ft]	Lby [ft]	Lbz [ft]	Lcomp top	Lcomp bot	Kyy	Kzz	Cm-yy	Cm-zz	Cb	y sway	z sway
1	M1	PIPE 2.0	8.5	Segment	Segment	Segment	Segment	1	1	1	1	1		
2	M2	PIPE 2.0	8.5	Segment	Segment	Segment	Segment	1	1	1	1	1		
3	M3	L5X3X4	2.5					1	1	1	1	1		
4	M4	L5X3X4	2.5					1	1	1	1	1		
5	M5	L2X2X4	5.659	Segment	Segment	Segment	Segment	1	1	1	1	1		
6	M6	L3X3X4	3.202	Segment	Segment	Segment	Segment	1	1	1	1	1		
7	M7	L3X3X4	3.202	Segment	Segment	Segment	Segment	1	1	1	1	1		

Global

Display Sections for Member Calcs	5
Max Internal Sections for Member Calcs	9%
Include Shear Deformation	Yes
Include Warping	Yes
Area Load Mesh (in^2)	144
Merge Tolerance (in)	.12
P-Delta Analysis Tolerance	0.50%
Vertical Axis	Y

Global, Continued

Hot Rolled Steel Code	AISC: ASD 9th
Cold Formed Steel Code	ASIS 99: ASD
NDS Wood Code	NDS 91: ASD
NDS Temperature	< 100F
Concrete Code	ACI 1999

Number of Shear Regions	4
Region Spacing Increment (in)	4
Biaxial Column Method	Exact Integration
Parre Beta Factor (PCA)	.65
Concrete Stress Block	Rectangular
Use Cracked Sections	Yes
Bad Framing Warnings	No
Unused Force Warnings	Yes

Envelope Joint Displacements

	Joint		X [in]	lc	Y [in]	lc	Z [in]	lc	X Rotation ...	lc	Y Rotation ...	lc	Z Rotation [...]	lc
1	N1	max	.286	6	0	6	.043	3	1.232e-3	3	0	1	3.905e-3	7
2		min	-.134	7	0	7	-.045	4	-1.294e-3	4	0	1	-8.076e-3	6
3	N2	max	0	6	0	7	0	3	5.116e-5	4	0	1	2.501e-3	7
4		min	0	7	0	6	0	4	-3.741e-5	3	0	1	-1.116e-4	6
5	N3	max	.133	6	0	6	.019	3	1.205e-3	3	0	1	3.887e-3	7
6		min	-.059	7	0	7	-.02	4	-1.268e-3	4	0	1	-8.058e-3	6
7	N4	max	-.003	6	0	7	.001	4	1.268e-4	4	0	1	8.905e-4	1
8		min	-.033	7	0	6	-.001	3	-1.238e-4	3	0	1	-6.758e-4	2
9	N5	max	.14	1	.007	7	.237	3	4.645e-3	3	0	1	1.826e-3	8
10		min	-.04	2	-.066	6	-.357	4	-6.617e-3	4	0	1	-3.527e-3	5
11	N6	max	-.027	5	.008	7	.051	8	0	1	0	6	0	1
12		min	-.041	8	-.066	6	.034	5	0	1	0	7	0	1
13	N7	max	.133	6	.007	7	.17	7	4.199e-3	3	0	1	1.604e-3	4
14		min	-.06	7	-.066	6	-.259	6	-6.171e-3	4	0	1	-1.805e-3	5
15	N8	max	-.003	6	.008	7	.061	7	1.065e-3	7	0	6	8.161e-4	7
16		min	-.033	7	-.066	6	-.017	6	-3.113e-3	6	0	7	-2.424e-3	6
17	N9	max	.133	6	0	7	.053	3	1.876e-3	3	8.272e-3	6	1.896e-4	7
18		min	-.059	7	-.017	6	-.076	4	-2.349e-3	4	-5.172e-3	7	-2.288e-3	6
19	N10	max	-.003	6	.007	7	.048	7	8.234e-4	7	6.277e-4	6	1.863e-4	7
20		min	-.033	7	-.05	6	-.012	6	-2.427e-3	6	-1.975e-3	7	-2.247e-3	6
21	N11	max	.134	6	.007	7	.116	7	2.267e-3	3	0	6	-1.566e-4	8
22		min	-.093	7	-.066	6	-.168	6	-4.274e-3	4	0	7	-1.529e-3	5
23	N12	max	-.026	5	.008	7	.047	2	1.085e-3	7	0	6	-2.424e-4	3
24		min	-.037	8	-.066	6	.033	1	-3.144e-3	6	0	7	-1.352e-3	4
25	N13	max	0	6	0	6	0	3	6.634e-4	3	0	1	1.509e-3	7
26		min	0	7	0	7	0	4	-6.933e-4	4	0	1	-4.683e-3	6
27	N14	max	0	3	0	4	0	3	5.189e-4	3	-1.015e-3	1	4.98e-4	7
28		min	0	4	0	7	0	4	-1.543e-3	4	-1.574e-3	2	-3.386e-3	6
29	N15	max	0	3	0	6	0	3	8.36e-4	3	5.679e-3	6	8.229e-4	7
30		min	0	4	0	7	0	4	-1.868e-3	4	-3.912e-3	7	-3.727e-3	6

Envelope Joint Reactions

	Joint		X [k]	lc	Y [k]	lc	Z [k]	lc	MX [k-ft]	lc	MY [k-ft]	lc	MZ [k-ft]	lc
1	N2	max	.24	7	-.018	6	.013	4	0	1	0	1	0	1
2		min	-.13	6	-.018	7	-.014	3	0	1	0	1	0	1
3	N13	max	.447	7	.203	7	.087	4	0	1	0	1	0	1
4		min	-.557	6	.203	6	-.086	3	0	1	0	1	0	1
5	N14	max	.138	4	.009	7	.124	4	0	1	0	1	0	1

Company : Tectonic Engineering
 Designer : mach410
 Job Number :

Feb 11, 2004

10:30 AM

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Envelope Joint Reactions (Continued)

	Joint		X [k]	lc	Y [k]	lc	Z [k]	lc	MX [k-ft]	lc	MY [k-ft]	lc	MZ [k-ft]	lc
6		min	-136	3	.009	4	-123	3	0	1	0	1	0	1
7	N15	max	.346	4	.009	7	.29	4	0	1	0	1	0	1
8		min	-.348	3	.009	6	-.292	3	0	1	0	1	0	1
9	Totals:	max	.514	2	.202	7	.514	4						
10		min	-.514	1	.202	6	-.514	3						

Envelope Drift Report

Story	Joint	X-Drift [in]	lc	Ht [%]	Joint	Y-Drift [in]	lc	Ht [%]	Joint	Z-Drift [in]	lc	Ht [%]
No Data to Print ...												

Envelope Member Section Forces

	Member	Sec		Axial[k]	lc	y Shear[k]	lc	z Shear[k]	lc	Torque[k-ft]	lc	y-y Mome...	lc	z-z Moment[k...	lc
1	M6	1	max	.452	4	.009	7	.014	6	0	1	0	1	0	1
2		min	-.454	3	.009	6	-.014	7	0	1	0	1	0	1	
3		2	max	.447	4	.005	7	.007	6	0	1	.002	6	.002	7
4		min	-.45	3	.005	6	-.007	7	0	1	-.01	7	-.01	6	
5		3	max	.443	4	0	1	0	1	0	1	.003	6	.003	7
6		min	-.445	3	0	1	0	1	0	1	-.013	7	-.013	6	
7		4	max	.439	4	-.005	7	.007	7	0	1	.002	6	.002	7
8			min	-.441	3	-.005	6	-.007	6	0	1	-.01	7	-.01	6
9		5	max	.435	4	-.009	7	.014	7	0	1	0	1	0	1
10			min	-.437	3	-.009	6	-.014	6	0	1	0	1	0	1
11	M4	1	max	.415	7	-.04	6	.021	4	.004	6	0	1	0	1
12		min	-.308	6	-.04	7	-.022	3	.002	7	0	1	0	1	
13		2	max	.409	7	-.045	6	.013	4	.004	6	.019	4	.029	3
14		min	-.302	6	-.045	7	-.013	3	-.002	7	0	3	.021	4	
15		3	max	.403	7	-.05	6	.004	4	.004	6	.034	4	.058	3
16		min	-.296	6	-.05	7	-.005	3	-.002	7	.004	3	.047	4	
17		4	max	.397	7	-.054	6	.004	3	.004	6	.046	4	.089	3
18			min	-.29	6	-.054	7	-.004	4	-.002	7	.015	3	.078	4
19		5	max	.322	7	.154	7	.033	3	.004	6	0	1	0	1
20			min	-.323	6	.154	6	-.034	4	-.001	7	0	1	0	1
21	M3	1	max	.24	7	.189	7	.034	4	.006	4	0	1	0	1
22		min	-.347	6	.189	6	-.033	3	-.004	3	0	1	0	1	
23		2	max	.274	7	-.05	6	.004	4	.007	4	-.022	4	-.094	3
24		min	-.272	6	-.05	7	-.004	3	-.004	3	-.053	3	-.105	4	
25		3	max	.268	7	-.055	6	.005	3	.007	4	-.011	4	-.064	3
26		min	-.266	6	-.055	7	-.004	4	-.004	3	-.041	3	-.075	4	
27		4	max	.262	7	-.059	6	.013	3	.007	4	-.004	4	-.032	3
28			min	-.26	6	-.059	7	-.013	4	-.004	3	-.024	3	-.04	4
29		5	max	.256	7	-.064	6	.022	3	.007	4	0	1	0	1
30			min	-.254	6	-.064	7	-.021	4	-.004	3	0	1	0	1
31	M5	1	max	-.235	2	.023	2	.021	4	0	3	0	1	0	1
32		min	-.245	1	-.018	1	-.021	3	-.002	4	0	1	0	1	
33		2	max	-.232	2	.011	2	.01	4	0	3	.02	6	.02	5
34		min	-.237	1	-.009	1	-.01	3	-.002	4	-.024	7	-.024	8	
35		3	max	-.23	6	0	1	0	1	0	3	.027	6	.027	5
36		min	-.23	7	0	1	0	1	-.002	4	-.032	7	-.032	8	
37		4	max	-.222	1	.009	1	.01	3	0	3	.02	6	.02	5
38			min	-.227	2	-.011	2	-.01	4	-.002	4	-.024	7	-.024	8
39		5	max	-.215	1	.018	1	.021	3	0	3	0	1	0	1
40			min	-.225	2	-.023	2	-.021	4	-.002	4	0	1	0	1
41	M1	1	max	0	1	0	1	0	1	0	1	0	1	0	1
42		min	0	1	0	1	0	1	0	1	0	1	0	1	

Company : Tectonic Engineering
 Designer : mach410
 Job Number :

Feb 11, 2004

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Envelope Member Section Forces (Continued)

	Member	Sec		Axial[k]	lc	y Shear[k]	lc	z Shear[k]	lc	Torque[k-ft]	lc	y-y Mome...	lc	z-z Moment[k...	lc
43		2	max	.198	7	.248	7	.045	4	0	1	.037	4	.196	6
44			min	.198	6	-.355	6	-.045	3	0	1	-.034	3	-.139	7
45		3	max	.004	7	.194	6	.03	3	0	1	.05	4	.355	6
46			min	.004	6	-.191	7	-.031	4	0	1	-.048	3	-.19	7
47		4	max	.013	7	.186	6	.019	3	0	1	.004	3	.207	7
48			min	.013	6	-.183	7	-.02	4	0	1	-.004	4	-.049	6
49		5	max	-.018	6	.24	7	.013	4	0	1	0	1	0	1
50			min	-.018	7	-.13	6	-.014	3	0	1	0	1	0	1
51	M7	1	max	.185	4	.009	7	.014	6	0	1	0	1	0	1
52			min	-.183	3	.009	4	-.014	7	0	1	0	1	0	1
53		2	max	.181	4	.005	7	.007	6	0	1	.002	6	.002	7
54			min	-.179	3	.005	4	-.007	7	0	1	-.01	7	-.01	6
55		3	max	.177	4	0	1	0	1	0	1	.003	6	.003	7
56			min	-.174	3	0	1	0	1	0	1	-.013	7	-.013	6
57		4	max	.173	4	-.005	7	.007	7	0	1	.002	6	.002	7
58			min	-.17	3	-.005	4	-.007	6	0	1	-.01	7	-.01	6
59		5	max	.168	4	-.009	7	.014	7	0	1	0	1	0	1
60			min	-.166	3	-.009	4	-.014	6	0	1	0	1	0	1
61	M2	1	max	.009	1	.065	2	.065	4	0	1	0	1	0	1
62			min	.009	5	-.065	1	-.065	3	0	1	0	1	0	1
63		2	max	.082	7	.211	4	.097	4	0	1	.16	4	.168	3
64			min	.082	6	-.213	3	-.098	3	0	1	-.163	3	-.167	4
65		3	max	.112	7	.135	3	.067	3	0	1	.029	4	.175	7
66			min	.112	6	-.135	4	-.066	4	0	1	-.031	3	-.173	6
67		4	max	.127	7	.161	7	.014	3	0	1	.012	3	.161	6
68			min	.127	6	-.161	6	-.013	4	0	1	-.012	4	-.158	7
69		5	max	-.009	5	.065	1	.065	3	0	1	0	1	0	1
70			min	-.009	1	-.065	2	-.065	4	0	1	0	1	0	1

Envelope Member Section Stresses

	Member	Sec		Axial[ksi]	lc	y Shear...	lc	z Shear...	lc	y-Top[ksi]	lc	y-Bot[ksi]	lc	z-Top[ksi]	lc	z-Bot[ksi]	lc	
1	M1	1	max	0	1	0	1	0	1	0	1	0	1	0	1	0	1	
2		min	0	1	0	1	0	1	0	1	0	1	0	1	0	1		
3		2	max	.184	7	.308	7	.056	4	2.968	7	4.204	6	.784	4	.728	3	
4		min	.184	6	-.44	6	-.055	3	-4.204	6	-2.968	7	-.728	3	-.784	4		
5		3	max	.004	7	.241	6	.037	3	4.073	7	7.609	6	1.066	4	1.023	3	
6		min	.004	6	-.237	7	-.038	4	-7.609	6	-4.073	7	-1.023	3	-1.066	4		
7		4	max	.012	7	.231	6	.023	3	1.047	6	4.432	7	.086	3	.089	4	
8		min	.012	6	-.227	7	-.025	4	-4.432	7	-1.047	6	-.089	4	-.086	3		
9		5	max	-.017	6	.297	7	.016	4	0	1	0	1	0	1	0	1	
10		min	-.017	7	-.161	6	-.017	3	0	1	0	1	0	1	0	1		
11		M2	1	max	.008	1	.081	2	.081	4	0	1	0	1	0	1	0	1
12			min	.008	5	-.081	1	-.081	3	0	1	0	1	0	1	0	1	
13	2		max	.076	7	.262	4	.121	4	3.573	4	3.603	3	3.425	4	3.489	3	
14	min		.076	6	-.264	3	-.121	3	-3.603	3	-3.573	4	-3.489	3	-3.425	4		
15		3	max	.104	7	.168	3	.083	3	3.695	6	3.752	7	.624	4	.667	3	
16		min	.104	6	-.168	4	-.081	4	-3.752	7	-3.695	6	-.667	3	-.624	4		
17		4	max	.118	7	.2	7	.018	3	3.387	7	3.442	6	.263	3	.261	4	
18		min	.118	6	-.2	6	-.016	4	-3.442	6	-3.387	7	-.261	4	-.263	3		
19		5	max	-.008	5	.081	1	.081	3	0	1	0	1	0	1	0	1	
20		min	-.008	1	-.081	2	-.081	4	0	1	0	1	0	1	0	1		
21		M3	1	max	.124	7	.181	7	.054	4	0	1	0	1	0	1	0	1
22			min	-.179	6	.181	6	-.053	3	0	1	0	1	0	1	0	1	
23	2		max	.141	7	-.048	6	.007	4	.655	4	-.123	3	-.863	4	.029	3	
24	min		.14	6	-.048	7	-.006	3	.586	3	-.138	4	.2019	3	.012	4		
25		3	max	.138	7	-.052	6	.007	3	.466	4	-.083	3	-.424	4	.023	3	

Company : Tectonic Engineering
 Designer : mach410
 Job Number :

Feb 11, 2004

10:30 AM

Checked By: _____

Envelope Member Section Stresses (Continued)

Member	Sec		Axial[ksl]	lc	v	Shear...	lc	z	Shear...	lc	v	Top[ksl]	lc	v	Bot[ksl]	lc	z	Top[ksl]	lc	z	Bot[ksl]	lc
26		min	-137	6	-052	7	-007	4	396	3	-098	4	-1.977	3	.006	4						
27	4	max	.135	7	-057	6	.021	3	.247	4	-.042	3	-.136	4	.013	3						
28		min	-134	6	-057	7	-.02	4	.201	3	-.052	4	-.904	3	.002	4						
29	5	max	.132	7	-.061	6	.034	3	0	1	0	1	0	1	0	1						
30		min	-131	6	-.061	7	-.034	4	0	1	0	1	0	1	0	1						
31	M4	1	max	.214	7	-.039	6	.034	4	0	1	0	1	0	1	0	1					
32		min	-.159	6	-.039	7	-.034	3	0	1	0	1	0	1	0	1						
33	2	max	.211	7	-.043	6	.02	4	-.132	4	.038	3	.735	4	0	3						
34		min	-.156	6	-.043	7	-.021	3	-.178	3	.028	4	-.033	3	-.011	4						
35	3	max	.208	7	-.048	6	.007	4	-.293	4	.076	3	1.318	4	-.002	3						
36		min	-.153	6	-.048	7	-.007	3	-.362	3	.062	4	.165	3	-.019	4						
37	4	max	.204	7	-.052	6	.006	3	-.483	4	.116	3	1.75	4	-.009	3						
38		min	-.149	6	-.052	7	-.007	4	-.552	3	.102	4	.593	3	-.025	4						
39	5	max	.166	7	.148	7	.053	3	0	1	0	1	0	1	0	1						
40		min	-.167	6	.148	6	-.054	4	0	1	0	1	0	1	0	1						
41	M5	1	max	-.251	2	.055	2	.05	4	0	1	0	1	0	1	0	1					
42		min	-.261	1	-.043	1	-.05	3	0	1	0	1	0	1	0	1						
43	2	max	-.248	2	.027	2	.025	4	.343	8	.343	8	2.226	6	0	6						
44		min	-.253	1	-.021	1	-.025	3	-.29	5	-.29	5	-2.634	7	0	7						
45	3	max	-.245	6	0	1	0	1	.458	8	.458	8	2.968	6	0	6						
46		min	-.245	7	0	1	0	1	-.387	5	-.387	5	-3.512	7	0	7						
47	4	max	-.237	1	.021	1	.025	3	.343	8	.343	8	2.226	6	0	6						
48		min	-.242	2	-.027	2	-.025	4	-.29	5	-.29	5	-2.634	7	0	7						
49	5	max	-.229	1	.043	1	.05	3	0	1	0	1	0	1	0	1						
50		min	-.24	2	-.055	2	-.05	4	0	1	0	1	0	1	0	1						
51	M6	1	max	.314	4	.014	7	.022	6	0	1	0	1	0	1	0	1					
52		min	-.315	3	.014	6	-.022	7	0	1	0	1	0	1	0	1						
53	2	max	.311	4	.007	7	.011	6	.059	6	.059	6	.092	6	0	6						
54		min	-.312	3	.007	6	-.011	7	-.012	7	-.012	7	-.463	7	0	7						
55	3	max	.308	4	0	1	0	1	.079	6	.079	6	.123	6	0	6						
56		min	-.309	3	0	1	0	1	-.016	7	-.016	7	-.617	7	0	7						
57	4	max	.305	4	-.007	7	.011	7	.059	6	.059	6	.092	6	0	6						
58		min	-.306	3	-.007	6	-.011	6	-.012	7	-.012	7	-.463	7	0	7						
59	5	max	.302	4	-.014	7	.022	7	0	1	0	1	0	1	0	1						
60		min	-.303	3	-.014	6	-.022	6	0	1	0	1	0	1	0	1						
61	M7	1	max	.129	4	.014	7	.022	6	0	1	0	1	0	1	0	1					
62		min	-.127	3	.014	4	-.022	7	0	1	0	1	0	1	0	1						
63	2	max	.126	4	.007	7	.011	6	.059	6	.059	6	.092	6	0	6						
64		min	-.124	3	.007	4	-.011	7	-.012	7	-.012	7	-.463	7	0	7						
65	3	max	.123	4	0	1	0	1	.079	6	.079	6	.123	6	0	6						
66		min	-.121	3	0	1	0	1	-.016	7	-.016	7	-.617	7	0	7						
67	4	max	.12	4	-.007	7	.011	7	.059	6	.059	6	.092	6	0	6						
68		min	-.118	3	-.007	4	-.011	6	-.012	7	-.012	7	-.463	7	0	7						
69	5	max	.117	4	-.014	7	.022	7	0	1	0	1	0	1	0	1						
70		min	-.115	3	-.014	4	-.022	6	0	1	0	1	0	1	0	1						

Envelope Member Section Deflections

	Member	Sec		x [in]	lc	y [in]	lc	z [in]	lc	x Rotate [r...	lc	(n) L/y Ratio	lc	(n) L/z Ratio	lc
1	M1	1	max	0	7	.134	7	.045	4	0	1	764.005	7	2286.027	4
2			min	0	6	-.286	6	-.043	3	0	1	356.612	6	2397.547	3
3		2	max	0	7	.035	7	.012	4	0	1	2954.519	7	8407.673	4
4			min	0	6	-.081	6	-.012	3	0	1	1262.032	6	8782.468	3
5		3	max	0	6	.034	6	.005	3	0	1	2965.876	6	NC	3
6			min	0	7	-.002	7	-.005	4	0	1	NC	7	NC	4
7		4	max	0	6	.032	7	.002	3	0	1	3153.883	7	NC	3
8			min	0	7	.014	6	-.003	4	0	1	7439.903	6	NC	4

Company : Tectonic Engineering
 Designer : mach410
 Job Number :

Feb 11, 2004
 10:30 AM
 Checked By: _____

Envelope Member Section Deflections (Continued)

	Member	Sec		x [in]	lc	y [in]	lc	z [in]	lc	x Rotate [r]	lc	(n) L/y Ratio	lc	(n) L/z Ratio	lc
9		5	max	0	1	0	1	0	1	0	1	NC	1	NC	1
10			min	0	1	0	1	0	1	0	1	NC	1	NC	1
11	M2	1	max	.066	6	.04	2	.357	4	0	1	NC	2	249.581	4
12			min	-.007	7	-.14	1	-.237	3	0	1	606.096	1	583.675	3
13		2	max	.066	6	.079	7	.21	6	0	1	2210.436	7	397.864	6
14			min	-.007	7	-.136	6	-.14	7	0	1	2268.455	6	1014.46	7
15		3	max	.066	6	.087	7	.112	6	0	1	1898.108	7	644.97	6
16			min	-.008	7	-.102	6	-.093	7	0	1	1964.154	6	1901.4	7
17		4	max	.066	6	.04	7	.034	6	0	1	NC	7	1274.73	6
18			min	-.008	7	-.012	6	-.067	7	0	1	NC	6	3690.173	7
19		5	max	.066	6	.041	8	-.034	5	0	1	NC	8	NC	5
20			min	-.008	7	.027	5	-.051	8	0	1	NC	6	NC	8
21	M3	1	max	.133	6	0	6	.019	3	1.205e-3	3	NC	6	NC	3
22			min	-.059	7	0	7	-.02	4	1.268e-3	4	NC	7	NC	4
23		2	max	.133	6	.001	7	.055	3	1.926e-3	3	NC	7	NC	3
24			min	-.059	7	-.018	6	-.08	4	2.432e-3	4	NC	6	NC	4
25		3	max	.133	6	.003	7	.092	3	2.684e-3	3	NC	7	NC	3
26			min	-.059	7	-.034	6	-.138	4	3.676e-3	4	NC	6	NC	4
27		4	max	.133	6	.005	7	.131	7	3.441e-3	3	5789.373	7	255.666	7
28			min	-.06	7	-.05	6	-.199	6	4.924e-3	4	NC	6	NC	6
29		5	max	.133	6	.007	7	.17	7	4.199e-3	3	3972.09	7	191.74	7
30			min	-.06	7	-.066	6	-.258	6	5.171e-3	4	NC	6	NC	6
31	M4	1	max	-.003	6	0	7	.001	4	1.268e-4	4	NC	7	NC	4
32			min	-.033	7	0	6	-.001	3	1.238e-4	3	NC	6	NC	3
33		2	max	-.003	6	.002	7	.015	7	2.091e-4	7	NC	7	NC	7
34			min	-.033	7	-.016	6	-.004	6	7.299e-4	6	1858.667	6	6603.865	6
35		3	max	-.003	6	.005	7	.031	7	5.064e-4	7	NC	7	NC	7
36			min	-.033	7	-.032	6	-.008	6	1.551e-3	6	925.824	6	3343.533	6
37		4	max	-.003	6	.007	7	.047	7	8.036e-4	7	NC	7	NC	7
38			min	-.033	7	-.049	6	-.012	6	2.372e-3	6	613.201	6	2267.253	6
39		5	max	-.003	6	.008	7	.061	7	1.065e-3	7	NC	7	NC	7
40			min	-.033	7	-.066	6	-.017	6	3.113e-3	6	454.442	6	1665.668	6
41	M5	1	max	.047	6	.125	6	.053	3	5.363e-3	7	NC	6	NC	3
42			min	.015	7	-.058	7	-.076	4	8.488e-3	6	NC	7	NC	4
43		2	max	.047	6	.097	6	.062	3	4.551e-3	7	9876.805	6	5632.061	3
44			min	-.015	7	-.061	7	-.07	4	6.661e-3	6	7005.373	7	5632.061	4
45		3	max	.048	6	.065	6	.064	3	3.738e-3	7	7037.223	6	4012.844	3
46			min	-.015	7	-.058	7	-.058	4	4.835e-3	6	4991.328	7	4012.844	4
47		4	max	.048	6	.027	6	.057	7	2.926e-3	7	9876.805	6	7966.14	7
48			min	-.014	7	-.047	7	-.036	6	3.008e-3	6	7005.373	7	7966.14	6
49		5	max	.048	6	-.015	6	.048	7	2.113e-3	7	NC	6	NC	7
50			min	-.014	7	-.031	7	-.012	6	1.182e-3	6	NC	7	NC	6
51	M6	1	max	0	1	0	1	0	1	1.081e-3	7	NC	1	NC	1
52			min	0	1	0	1	0	1	-3.701e-3	6	NC	1	NC	1
53		2	max	0	3	.002	7	.038	7	1.081e-3	7	NC	7	NC	7
54			min	0	4	-.017	6	-.054	6	-3.701e-3	6	NC	6	NC	6
55		3	max	0	3	.003	7	.075	7	1.081e-3	7	NC	7	NC	7
56			min	0	4	-.033	6	-.108	6	-3.701e-3	6	NC	6	NC	6
57		4	max	0	3	.005	7	.112	7	1.081e-3	7	7184.864	7	NC	7
58			min	0	4	-.05	6	-.161	6	-3.701e-3	6	NC	6	NC	6
59		5	max	0	3	.007	7	.149	7	1.081e-3	7	5135.182	7	NC	7
60			min	0	4	-.066	6	-.214	6	-3.701e-3	6	NC	6	NC	6
61	M7	1	max	0	1	0	1	0	1	5.556e-4	7	NC	1	NC	1
62			min	0	1	0	1	0	1	-3.159e-3	6	NC	1	NC	1
63		2	max	0	3	.002	7	.015	2	5.556e-4	7	NC	7	NC	2
64			min	0	4	-.017	6	.01	1	-3.159e-3	6	NC	6	3766.07	1
65		3	max	0	3	.003	7	.03	2	5.556e-4	7	NC	7	NC	2

Company : Tectonic Engineering
 Designer : mach410
 Job Number :

Feb 11, 2004
 10:30 AM
 Checked By: _____

Envelope Member Section Deflections (Continued)

Member	Sec		x [in]	lc	y [in]	lc	z [in]	lc	x Rotate [r...	lc	(n) L/y Ratio	lc	(n) L/z Ratio	lc
66		min	0	4	-.033	6	.021	1	-3.159e-3	6	NC	6	1869.442	1
67	4	max	0	3	.005	7	.045	2	5.556e-4	7	7026.643	7	NC	2
68		min	0	4	-.05	6	.031	1	-3.159e-3	6	NC	6	1235.28	1
69	5	max	0	3	.008	7	.06	2	5.556e-4	7	5027.305	7	NC	2
70		min	0	4	-.066	6	.042	1	-3.159e-3	6	NC	6	919.11	1

Envelope Member Section Torsion

Member	Sec		Torque[k-ft]	lc	Torsion Sh...	lc	y-y Warp S...	lc	z-z Warp S...	lc	z-Top War...	lc	z-Bot War...	lc
1	M1	1	max	0	1	0	1	NC	NC	NC	NC	NC	NC	NC
2		min	0	1	0	1	NC	NC	NC	NC	NC	NC	NC	NC
3		2	max	0	1	0	1	NC	NC	NC	NC	NC	NC	NC
4		min	0	1	0	1	NC	NC	NC	NC	NC	NC	NC	NC
5		3	max	0	1	0	1	NC	NC	NC	NC	NC	NC	NC
6		min	0	1	0	1	NC	NC	NC	NC	NC	NC	NC	NC
7		4	max	0	1	0	1	NC	NC	NC	NC	NC	NC	NC
8		min	0	1	0	1	NC	NC	NC	NC	NC	NC	NC	NC
9		5	max	0	1	0	1	NC	NC	NC	NC	NC	NC	NC
10		min	0	1	0	1	NC	NC	NC	NC	NC	NC	NC	NC
11	M2	1	max	0	1	0	1	NC	NC	NC	NC	NC	NC	NC
12		min	0	1	0	1	NC	NC	NC	NC	NC	NC	NC	NC
13		2	max	0	1	0	1	NC	NC	NC	NC	NC	NC	NC
14		min	0	1	0	1	NC	NC	NC	NC	NC	NC	NC	NC
15		3	max	0	1	0	1	NC	NC	NC	NC	NC	NC	NC
16		min	0	1	0	1	NC	NC	NC	NC	NC	NC	NC	NC
17		4	max	0	1	0	1	NC	NC	NC	NC	NC	NC	NC
18		min	0	1	0	1	NC	NC	NC	NC	NC	NC	NC	NC
19		5	max	0	1	0	1	NC	NC	NC	NC	NC	NC	NC
20		min	0	1	0	1	NC	NC	NC	NC	NC	NC	NC	NC
21	M3	1	max	.006	4	.431	4	NC	NC	NC	NC	NC	NC	NC
22		min	-.004	3	-.267	3	NC	NC	NC	NC	NC	NC	NC	NC
23		2	max	.007	4	.463	4	NC	NC	NC	NC	NC	NC	NC
24		min	-.004	3	-.282	3	NC	NC	NC	NC	NC	NC	NC	NC
25		3	max	.007	4	.463	4	NC	NC	NC	NC	NC	NC	NC
26		min	-.004	3	-.282	3	NC	NC	NC	NC	NC	NC	NC	NC
27		4	max	.007	4	.463	4	NC	NC	NC	NC	NC	NC	NC
28		min	-.004	3	-.282	3	NC	NC	NC	NC	NC	NC	NC	NC
29		5	max	.007	4	.463	4	NC	NC	NC	NC	NC	NC	NC
30		min	-.004	3	-.282	3	NC	NC	NC	NC	NC	NC	NC	NC
31	M4	1	max	.004	6	.305	6	NC	NC	NC	NC	NC	NC	NC
32		min	-.002	7	-.111	7	NC	NC	NC	NC	NC	NC	NC	NC
33		2	max	.004	6	.305	6	NC	NC	NC	NC	NC	NC	NC
34		min	-.002	7	-.111	7	NC	NC	NC	NC	NC	NC	NC	NC
35		3	max	.004	6	.305	6	NC	NC	NC	NC	NC	NC	NC
36		min	-.002	7	-.111	7	NC	NC	NC	NC	NC	NC	NC	NC
37		4	max	.004	6	.305	6	NC	NC	NC	NC	NC	NC	NC
38		min	-.002	7	-.111	7	NC	NC	NC	NC	NC	NC	NC	NC
39		5	max	.004	6	.273	6	NC	NC	NC	NC	NC	NC	NC
40		min	-.001	7	-.096	7	NC	NC	NC	NC	NC	NC	NC	NC
41	M5	1	max	0	3	.137	3	NC	NC	NC	NC	NC	NC	NC
42		min	-.002	4	-.304	4	NC	NC	NC	NC	NC	NC	NC	NC
43		2	max	0	3	.137	3	NC	NC	NC	NC	NC	NC	NC
44		min	-.002	4	-.304	4	NC	NC	NC	NC	NC	NC	NC	NC
45		3	max	0	3	.137	3	NC	NC	NC	NC	NC	NC	NC
46		min	-.002	4	-.304	4	NC	NC	NC	NC	NC	NC	NC	NC
47		4	max	0	3	.137	3	NC	NC	NC	NC	NC	NC	NC
48		min	-.002	4	-.304	4	NC	NC	NC	NC	NC	NC	NC	NC

Envelope Member Section Torsion (Continued)

Member	Sec	Torque[k-ft]	lc	Torsion Sh...	lc	y-y Warp S...	lc	z-z Warp S...	lc	z-Top War...	lc	z-Bot War...	lc
49	5	max	0	3	.137	3	NC		NC		NC		NC
50		min	-.002	4	-.304	4	NC		NC		NC		NC
51	M6	1	max	0	1	0	1	NC		NC		NC	
52		min	0	1	0	1	NC		NC		NC		NC
53		2	max	0	1	0	1	NC		NC		NC	
54		min	0	1	0	1	NC		NC		NC		NC
55		3	max	0	1	0	1	NC		NC		NC	
56		min	0	1	0	1	NC		NC		NC		NC
57		4	max	0	1	0	1	NC		NC		NC	
58		min	0	1	0	1	NC		NC		NC		NC
59		5	max	0	1	0	1	NC		NC		NC	
60		min	0	1	0	1	NC		NC		NC		NC
61	M7	1	max	0	1	0	1	NC		NC		NC	
62		min	0	1	0	1	NC		NC		NC		NC
63		2	max	0	1	0	1	NC		NC		NC	
64		min	0	1	0	1	NC		NC		NC		NC
65		3	max	0	1	0	1	NC		NC		NC	
66		min	0	1	0	1	NC		NC		NC		NC
67		4	max	0	1	0	1	NC		NC		NC	
68		min	0	1	0	1	NC		NC		NC		NC
69		5	max	0	1	0	1	NC		NC		NC	
70		min	0	1	0	1	NC		NC		NC		NC

Envelope ASD Steel Code Checks

	Memb...	Shape	Code ...	Loc[ft]	lc	Shear Ch...	Loc...	lc	Fa [ksi]	Ft [k...	Fb y-y [ksi]	Fb z.....	C...	C...	ASD...	
1	M1	PIPE...	.394	3.188	6	.024	3.0...	6	22.729	27.9...	30.792	30.7...	1	1	1	H2-1
2	M2	PIPE...	.291	2.922	3	.016	2.8...	3	22.728	27.9...	30.792	30.7...	1	1	1	H1-3
3	M3	L5X3...	.006	0	6	.032	0	y 4	25.007	28.7...	- Code check based on z-z Axia...					H2-1
4	M4	L5X3...	.009	0	7	.022	1.9...	y 6	25.007	28.7...	- Code check based on z-z Axia...					H1-1
5	M5	L2X2...	.009	0	1	.018	5.6...	z 4	6.6	28.7...	- Code check based on z-z Axia...					H2-1
6	M6	L3X3...	.014	0	4	.001	3.2...	z 7	22.594	28.7...	- Code check based on z-z Axia...					H1-1
7	M7	L3X3...	.006	0	4	.001	0	z 7	22.594	28.7...	- Code check based on z-z Axia...					H1-1

Material Takeoff

	Material	Size	Pieces	Length[ft]	Weight[K]
1	Hot Rolled Steel				
2	A36	L2X2X4	1	5.7	0
3	A36	L3X3X4	2	6.4	0
4	A36	L5X3X4	2	5	0
5	A53 B	PIPE 2.0	2	17	0
6	Total HR Steel		7	34.1	1

RSA/Frequencies

No Response Spectra/Frequency Results Available...

Mode Shapes

Joint Label	X Translation	Y Translation	Z Translation	X Rotation	Y Rotation	Z Rotation
No Mode Shape Results Available...						

NEXTEL: LAGRANGE NORTH
W.O. 1170.2296
EXISTING 106'-7" CON-EDISON TOWER L-17
LAGRANGE, NY
STRUCTURAL ANALYSIS REPORT
AUGUST 24, 2000

TECTONIC ENGINEERING
CONSULTANTS P.C.

ENGINEERS • SURVEYORS • CONSTRUCTION MANAGERS

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1.0 INTRODUCTION

The Consolidated Edison (Con-Edison) electric transmission tower no. L-17 is located off Rossway Road in Lagrange, NY. The tower was designed as a part of the 345kV single-circuit Pleasant Valley Substation to Connecticut State Line transmission system. Nextel anticipates installing six (6) panel antennas on this tower in the near future.

Tectonic Engineering Consultants, P.C. has performed a structural analysis of the tower. The analysis was to verify the adequacy of the tower for supporting the proposed antennas in accordance with Con-Edison requirements.

1.1 Information Provided

For the purpose of the analysis, Tectonic was furnished with the following Con-Edison drawings:

1. 345kV Overhead Transmission Line, Pleasant Valley Substation to Connecticut State Line – Tangent Tower Outline & Details, drawing No. EO-11300A, dated 3/29/65.
2. 345kV Overhead Transmission Line, Pleasant Valley Substation to Connecticut State Line – Tangent Tower Extension Outlines, drawing No. EO-11301A, dated 1/12/65.
3. Overhead Transmission Line, Pleasant Valley Substation to Connecticut State Line, 1963 Construction – Tower Schedule (from STA 0+00 to STA 938+20), drawing No. EO-11374A, dated 1/8/65.
4. Overhead Transmission Line, Pleasant Valley Substation to Connecticut State Line, 1963 Construction – Plan & Profile (from STA 196+40 to STA 235+55), drawing No. EO-11381A, dated 1/8/65.
5. Purchase and Test Manual No. 6 – Section 21, Lattice Steel Transmission Towers, EO-1018-1, dated 6/21/76.
6. Con-Edison Transmission System – P.C.S. Antenna/Cellular Installation Procedure, dated May 2000 (2 pages).

2.0 ORIGINAL TOWER DESIGN

2.1 Tower Structure

The tower was designed by Stone and Webster Engineering Corp. for Con-

Edison in 1963, and was designated as a Type ET 0°-3° suspension tower. It is a four-legged, self-supporting square tower. The existing tower L-17 has a total height of 106'-7". It consists of a 91'-7" high body with 15' long extensions on all four (4) legs.

The tower is approximately 30'-8" wide at the base, and tapers uniformly to a width of 12'-6" at the tower waist at the 48' level. The tower supports a horizontal conductor configuration with a cross arm at the 96'-0" level, which extends to a total width of 52'-0". V-string insulators are used on the middle phase conductor. The shield wire peaks at the top have a total width of 38'-0".

The tower utilizes steel angles for all members. All connections are bolted.

A diagram of the structure is presented in Figure 1, attached.

2.2 Loading Criteria

The original design was based on Con-Edison design specifications which provide tower strengths that equal or surpass the requirements of the National Electrical Safety Code for Grade "B" construction. The tower was designed to support two (2) shield wires and three (3) conductors. The types and sizes of the shield wires and conductors used in the original design were not identified in the Con-Ed drawings.

2.3 Tower Foundation

According to the Con-Edison drawings, the tower is supported on a rock foundation, but no details of the existing tower foundation were made available.

3.0 EXISTING CONFIGURATION

According to the Con-Edison drawings provided, the existing tower was installed at a line angle of 0°, a wind span of 1448' and a weight span of approximately 1610'. The tower is supporting the following:

Shield Wire:

9/16", 7 No. 5 AWG Alumoweld (2 positions)
Diameter = 0.546 in, Weight = 0.525 lb/ft

Conductor:

2156 KCM 89/19 ACSR Bluebird (3 positions)
Diameter = 1.76 in, Weight = 2.51 lb/ft

4.0 PROPOSED INSTALLATION

Nextel is proposing to install the following items on the tower:

- 6 EMS FQ90-09 panel antennas, mounted on the cross arm at approximately the 97' level (antenna centerline)
- 24 7/8" diameter cables strapped in approximately equal sized bundles on three (3) tower legs to the antennas

5.0 STRUCTURAL ANALYSIS

5.1 Current Loading Criteria

The design of electrical transmission line structures is governed by the National Electrical Safety Code (NESC) and ANSI/ASCE 10 (1991) "Design of Latticed Steel Transmission Towers". Additional design constraints are imposed by the electrical utilities to account for special design considerations.

The design of antenna supports is governed by ANSI/TIA/EIA-222-F-1996 "Structural Standards for Steel Antenna Towers and Antenna Supporting Structures". From this document, a basic wind speed of 70 mph applies to Orange County, NY where the tower is located. Ice loads have been established based on a 0.5" radial ice thickness in accordance with industry standard practice. A reduced wind speed of 61 mph is used in conjunction with this ice load.

The loading conditions considered in our analysis of the tower include the wind perpendicular (90°) to the shield wires and the conductors. The loading conditions considered including all the applicable code requirements and the requirements stipulated by the utility, are summarized as follows:

Loading Condition (LC)	Pressure (psf)		Radial Ice (in)		Overload Factors		
	Wire	Tower	Wire	Tower	Wind	Weight	Wire Tension
A. Con-Ed Standard	4	13	0.5	0	2.54	1.27	1.65
B. Con-Ed Emergency Ice	8	20	1.0	0	1.0	1.0	1.0
C. Con-Ed Hurricane	30	50	0	0	1.0	1.0	1.0
Note: Wind force on tower is calculated based on 1.5 times the net projected area of one tower face.							

The Con-Edison Stringing & Sagging condition and Climbing condition were not evaluated in the analysis, because they are not affected by the proposed

antenna installation.

The provisions of ANSI/TIA/EIA-222-F-1996 were used for the design of proposed antenna installation. The wind and ice loads stipulated by ANSI/TIA/EIA-222-F-1996 are overly conservative for the evaluation of the existing transmission line tower. Therefore, these loads were not considered in our analysis of the tower.

5.2 Procedure

The tower has been analyzed with a general purpose, three-dimensional structural analysis program, using the dimensions, member sizes and material properties indicated in the Con-Edison drawing. The analysis included the following:

1. Analysis of the tower with the existing conductors and shield wires described in Section 3.0 as well as the proposed Nextel antennas and cables, using Con-Edison loading criteria summarized above.
2. Analysis of the tower with the existing conductors and shield wires described in Section 3.0, using Con-Edison loading criteria summarized above.

The total loads on the tower under different load cases are listed in the following table:

LC	Conductor (lbs)		Shield Wire (lbs)		Tower (lbs)	Proposed Installation (lbs)	
	Wind	Weight	Wind	Weight	Wind	Wind	Weight
1 (1A)	3569	8392	2183	2742	9880	2868	2666
2 (1B)	3800	9914	2708	4281	5980	2625	3109
3 (1C)	6371	4041	1977	845	14960	7098	1156
4 (2A)	3569	8392	2183	2742	9880	0	0
5 (2B)	3800	9914	2708	4281	5980	0	0
6 (2C)	6371	4041	1977	845	14960	0	0

5.3 Assumptions

Several assumptions were made in order to perform the analysis. Each of these is considered by Tectonic to be both reasonable and consistent with current standards of practice.

1. Redundant members which are not intended to carry loads are not included in the model.

2. Tower member sizes and material properties are as indicated on the Con-Edison drawings.
3. Details of connections are not modeled. Connections are assumed as pin connections.
4. The wind loads applied to the tower due to the antenna installation are conservatively based on the full projected area of all antennas in all loading cases.
5. The tower and foundations were constructed according to the approved plans, and the connection of the tower to its foundation is considered as pinned.

5.4 Results

Of the Con-Edison loading requirements, our analysis shows that the Con-Edison hurricane loading condition (110 mph wind) is the most severe, therefore resulting in maximum member forces in the tower. Details of the critical member forces in terms of their capacity are summarized in the following table:

Elevation (ft)	Member Type	Existing Condition		Proposed Condition	
		Compression	Tension	Compression	Tension
		%	%	%	%
0-25	Leg	66	27	70	29
		2	24	2	26
25-40	Leg	56	28	60	30
			26		29
40 -68	Leg	69	30	73	32
			27		29
68- 96	Leg	38	19	39	20
	Bracing (face 100-200)	20	4	21	4
	Bracing (face 100-400)	68	32	72	34
96 - 106	Leg	29	2	29	2
	Bracing	19	2	20	2
	Shield Wire Peak	4	7	4	7
	X-Arm Bot. Sect.	49	6	50	7
	X-Arm Top Sect.	6	6	7	6
	X-arm (96-101)	75	38	78	39

Details of all member forces are included in the computer analysis output attached to this report.

Connection capacities have not been evaluated since detailed information was not provided. However, based on the results of our analysis, we expect that the connection capacities will be adequate.

The foundation reactions are summarized as follows:

	<u>Existing Condition</u>	<u>Proposed</u>
Maximum uplift per leg	40.0 kips	42.6 kips
Maximum download per leg	55.1 kips	58.7 kips
Max. shear per leg (transverse)	11.1 kips	12.0 kips
Max. shear per leg (longitudinal)	7.9 kips	8.4 kips

6.0 CONCLUSIONS AND RECOMMENDATIONS

As a result of our analysis, we conclude that the existing tower has sufficient capacity to support the proposed installation. No structural problems for the tower are anticipated, and no modifications are necessary.

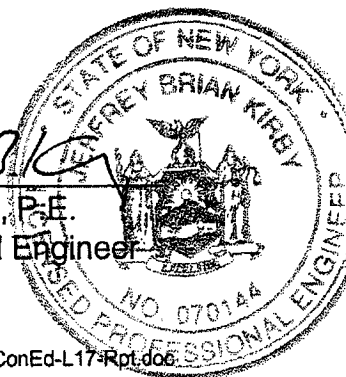
Since no information on the existing tower foundation or site soil conditions was available, comparison of the foundation reactions from our analysis to the actual capacities of the existing tower foundation was not possible. However, based on the results of our analysis, we expect that the foundation is adequate for supporting the proposed installation.

The clearance requirements for the proposed installation have not been evaluated, since no information on the length of existing insulator strings and the hardware was made available. However, the proposed antennas will be flush mounted on the cross arm and the cables will be installed inside the tower legs. Therefore, the proposed installation will have very minor effect on the clearance requirements.

Any further changes to the antenna configuration or other appurtenances should be reviewed with respect to their effect on structural loads prior to implementation.

Prepared by: Quan He Fan
Quan He Fan
Staff Structural Engineer

Reviewed by: Jeffrey B. Kirby
Jeffrey B. Kirby, P.E.
Chief Structural Engineer



Date: 8/24/00

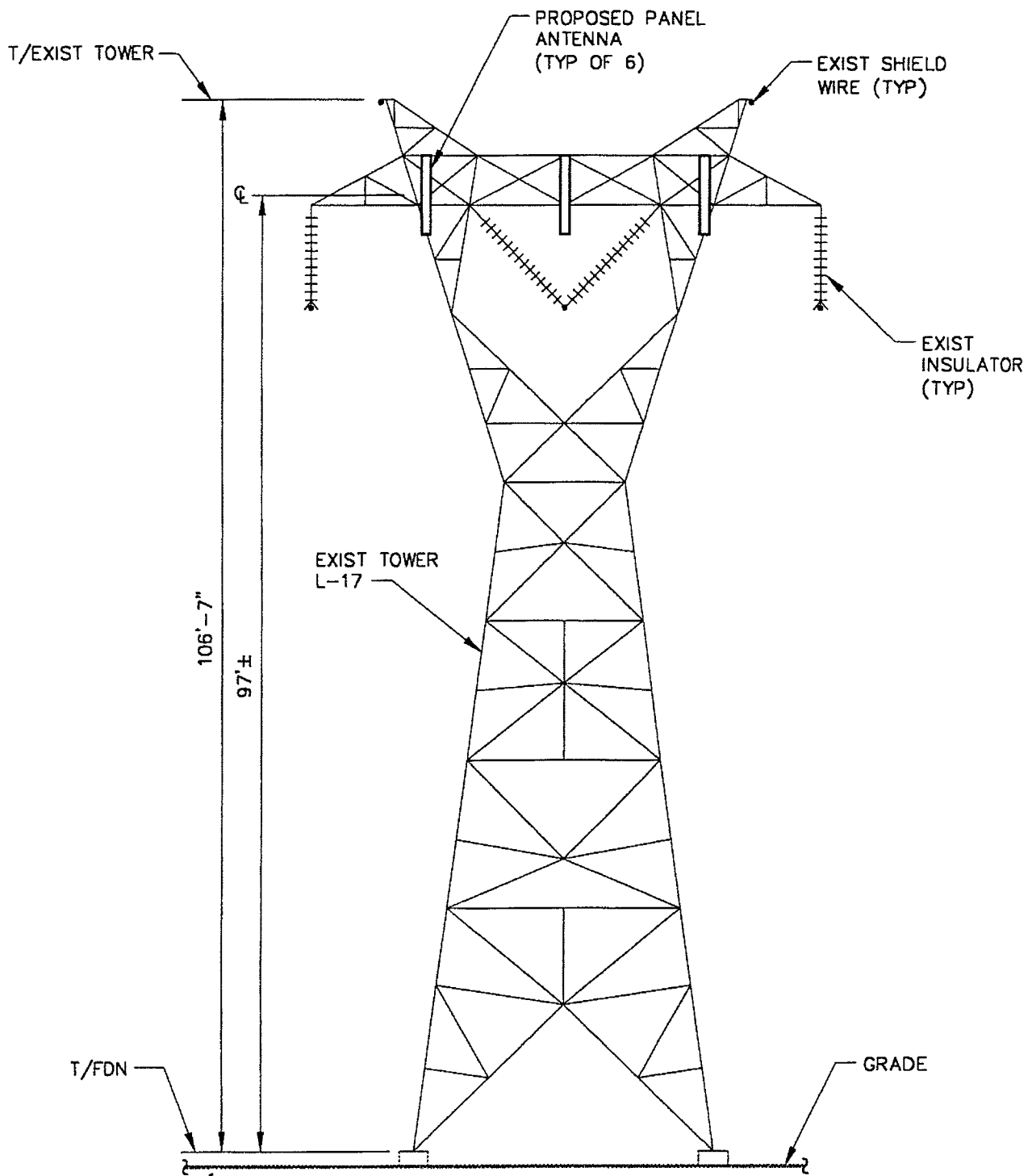


FIGURE 1

SUMMARY OF RESULTS

SUMMARY OF MEMBER CAPACITY

Member Elevation	Member Type	STAAD Member Number	Member Size	Area (in^2)	Steel Type	Con-Ed Member Force		Member Capacity		EXISTING CONDITION				PROPOSED CONDITION			
						Compression	Tension	Compression	Tension	Compression		Tension		Compression		Tension	
						(kips)	(kips)	(kips)	(kips)	Force (k)	%	Force (k)	%	Force (k)	%	Force (k)	%
0-25	Leg	112	L5X5X3/8	3.61	A36	65.1	37.9	85.03	116.8	56.09	66	32.02	27	59.77	70	34.08	29
		111	L5X5X3/8	3.61		65.1	37.9	90.18	118.8	55.78	62	32.2	28	59.46	66	34.26	29
		1112	L3X3X3/16	1.09			9.8		35.3			8.56	24			9.34	26
		11100	L31/2*3*1/4	1.56			9.8		50.5			8.96	18			9.73	19
		1111	L31/2*3*1/4	1.56		N/A	N/A	5.81	50.5	0.1	2	0.1	0	0.1	2	0.1	0
25-40	Leg	100	L5X5X3/8	3.61	A36	57.5	34.1	107.6	116.8	50.6	47	32.4	28	53.9	50	34.4	29
		101	L5X5X3/8	3.61		57.5	34.1	90.2	116.8	50.5	56	32.5	28	53.7	60	34.5	30
		1100	L3X3X3/16	1.09			10.2	9.0	35.3			9.2	26			10.1	28
		1101	L3X3X3/16	1.09			10.4	5.1	35.3			7.1	20			7.8	22
40-68	Leg	102	L4X4X3/8	2.86	A36	49.3	31.9	64.9	92.5	45.0	69	27.8	30	47.7	73	29.6	32
		103	L4X4X3/8	2.86		44.9	26.3	64.9	92.5	40.4	62	22.2	24	42.8	66	23.8	26
		1102	L2 1/2X2 1/2X3/16	0.90			9.5	2.9	29.1			6.9	24			7.5	28
		1103	L2 1/2X2 1/2X3/16	0.90			12.8	3.7	29.1			7.9	27			8.4	29
68-96	Leg	104	L4X4X5/16	2.40	A36	29.6	11.0	63.9	77.7	24.0	38	14.4	19	25.2	39	15.5	20
		105	L4X4X5/16	2.40		29.6	11.0	63.9	77.7	22.9	36	13.7	18	24.0	38	14.7	19
		106	L4X4X5/16	2.40		16.0	11.5	65.4	77.7	21.0	32	5.5	7	21.6	33	5.8	7
		107	L4X4X5/16	2.40		16.0	11.5	65.4	77.7	20.6	32	5.4	7	21.2	32	5.7	7
	Bracing FACE 100-200	1104	L2 1/2X2 1/2X3/16	0.90		2.2	2.2	6.6	29.1	0.3	5	0.1	0	0.3	5	0.1	0
		1105	L2 1/2X2 1/2X3/16	0.90		3.1	3.1	8.1	29.1	1.6	20	1.2	4	1.7	21	1.3	4
	Bracing FACE 100-400	1106	L13/4X13/4X3/16	0.62		3.6	3.6	5.1	20.1	0.2	4	0.2	1	0.2	4	0.2	1
		1107	L13/4X13/4X3/16	0.62		4.7	4.7	6.1	20.1	0.7	12	0.3	1	0.8	12	0.3	1
		21 & 2104	L31/2X31/2X1/4	1.69		18.6	23.4	24.6	54.7	16.8	68	15.1	28	17.6	72	16.2	30
		2105	L31/2X21/2X1/4	1.44		23.3	15.5	29.2	46.6	13.5	46	15.0	32	14.3	49	15.8	34
96-106	Leg	108	L31/2X31/2X1/4	1.69	A36	12.4	12.4	41.6	54.7	11.9	29	1.2	2	12.2	29	1.3	2
		109	L31/2X31/2X1/4	1.69		5.0	5.0	41.6	54.7	4.7	11	0.3	1	4.7	11	0.3	1
	Bracing	1108	L2X2X3/16	0.71		1.1	1.1	10.8	23.0	2.1	19	0.4	2	2.1	20	0.4	2
		23	L31/2X31/2X1/4	1.69		4.2	4.2	37.7	54.7	1.6	4	4.1	7	1.6	4	4.1	7
	X-Arm Bot. Sect.	3	L2X2X3/16	0.71		6.3	6.3	5.5	23.0	2.7	49	1.5	6	2.7	50	1.6	7
		2	L2X2X3/16	0.71		6.3	6.3	10.6	23.0	1.6	15	0.0	0	1.6	15	0.1	0
	X-Arm Top Sect.	15	L3X3X3/16	1.09		N/A	N/A	9.0	35.3	0.6	6	0.6	2	0.6	7	0.7	2
		13	L3X3X3/16	1.09		N/A	N/A	21.6	35.3	0.5	2	2.0	6	0.5	2	2.1	6
	X-arm (96-101)	481	L2 1/2X2 1/2X3/16	0.90		12.6	12.6	15.2	29.2	11.5	75	11.0	38	11.9	78	11.5	39
		485	L2 1/2X2 1/2X3/16	0.90		12.6	12.6	10.3	29.2	7.5	72	7.5	26	7.9	76	7.9	27

LOAD CALCULATIONS

CONDUCTOR LOAD CALCULATIONS

(Con-Edison Tower L-17)

Loading Condition 1: Con-Ed Standard

Wind Pressure = 4.0 psf Radial Ice = 0.5 inch

Overload Factors:

Vertical OLF = 1.27 Transverse OLF = 2.54

Wire Tension OLF = 1.65

Conductor Data:

Conductor Type: 2156 KCM 89/19 ACSR (Bluebird)

Conductor Diameter: 1.76 in Weight: 2.51 lb/ft

Conductor Tension: lb Conductor Bundle: 1

Shield Wire Data:

Shield Wire Type: 9/16", 7/5 A.W.G. Alumoweld

Shield Wire Dia.: 0.546 in Weight: 0.525 lb/ft

Shield Wire Tension: lb

Design Weight and Wind Span:

Wind Span: 1448 ft Weight Span: 1610 ft

Force on Conductor:

Transverse Force = 3384 lb OR 2.337 lb/ft

Vertical Force = 7955 lb OR 4.941 lb/ft

Resultant Force = 5.466 lb/ft

NESC Constant (Table 251-1, P. 152): 0.30 lb/ft

Final Transverse Force (Incl. NESC Constant) =

3569 lb

Final Vertical Force (Incl. NESC Constant) =

8392 lb

Force on Shield Wire:

Transverse Force = 1895 lb OR 1.309 lb/ft

Vertical Force = 2380 lb OR 1.478 lb/ft

Resultant Force = 1.974 lb/ft

NESC Constant (Table 251-1, P. 152): 0.30 lb/ft

Final Transverse Force (Incl. NESC Constant) =

2183 lb

Final Vertical Force (Incl. NESC Constant) =

2742 lb

Force on TowerWind: $F = 13 \text{ psf} \times (1.5 \times \text{Projected Area of 1 Face}) \times (\text{OLF} = 2.54)$ Weight: $W = \text{Self Weight} \times (\text{OLF} = 1.27)$ **Force on Antennas, Cables and Mounts**Wind: $F = 4 \text{ psf} \times (\text{Projected Area w/ Ice}) \times (\text{Shape Factor: 1.3 for Round, 1.6 for Flat}) \times (\text{OLF} = 2.54)$ Weight: $W = \text{Self Weight} \times (\text{OLF} = 1.27)$ **NOTE:** Ice on tower need not be considered.

CONDUCTOR LOAD CALCULATIONS

(Con-Edison Tower L-17)

Loading Condition 2: Con-Ed Emergency Ice

Wind Pressure = 8.0 psf Radial Ice = 1.0 inch

Overload Factors:

Vertical OLF = 1.00 Transverse OLF = 1.00

Wire Tension OLF = 1.00

Conductor Data:

Conductor Type: 2156 KCM 89/19 ACSR (Bluebird)

Conductor Diameter: 1.76 in Weight: 2.51 lb/ft

Conductor Tension: lb Conductor Bundle: 1

Shield Wire Data:

Shield Wire Type: 9/16", 7/5 A.W.G Alumoweld

Shield Wire Dia.: 0.546 in Weight: 0.525 lb/ft

Shield Wire Tension: lb

Design Weight and Wind Span:

Wind Span: 1448 ft Weight Span: 1610 ft

Force on Conductor:

Transverse Force = 3630 lb OR 2.507 lb/ft

Vertical Force = 9470 lb OR 5.882 lb/ft

Resultant Force = 6.394 lb/ft

NESC Constant (Table 251-1, P. 152): 0.30 lb/ft

Final Transverse Force (Incl. NESC Constant) =

3800 lb

Final Vertical Force (Incl. NESC Constant) =

9914 lb

Force on Shield Wire:

Transverse Force = 2458 lb OR 1.697 lb/ft

Vertical Force = 3886 lb OR 2.414 lb/ft

Resultant Force = 2.951 lb/ft

NESC Constant (Table 251-1, P. 152): 0.30 lb/ft

Final Transverse Force (Incl. NESC Constant) =

2708 lb

Final Vertical Force (Incl. NESC Constant) =

4281 lb

Force on TowerWind: $F = 20 \text{ psf} \times (1.5 \times \text{Projected Area of 1 Face}) \times (\text{OLF} = 1.0)$ Weight: $W = \text{Self Weight} \times (\text{OLF} = 1.0)$ **Force on Antennas, Cables and Mounts**Wind: $F = 8 \text{ psf} \times (\text{Projected Area w/ Ice}) \times (\text{Shape Factor: 1.3 for Round, 1.6 for Flat}) \times (\text{OLF} = 1.0)$ Weight: $W = \text{Self Weight} \times (\text{OLF} = 1.0)$ **NOTE:** Ice on tower need not be considered.

CONDUCTOR LOAD CALCULATIONS

(Con-Edison Tower L-17)

Loading Condition 3: Con-Ed Hurricane

Wind Pressure = 30.0 psf Radial Ice = 0.0 inch

Overload Factors:

Vertical OLF = 1.00 Transverse OLF = 1.00

Wire Tension OLF = 1.00

Conductor Data:

Conductor Type: 2156 KCM 89/19 ACSR (Bluebird)

Conductor Diameter: 1.76 in Weight: 2.51 lb/ft

Conductor Tension: lb Conductor Bundle: 1

Shield Wire Data:

Shield Wire Type: 9/16", 7/5 A.W.G. Alumoweld

Shield Wire Dia.: 0.546 in Weight: 0.525 lb/ft

Shield Wire Tension: lb

Design Weight and Wind Span:

Wind Span: 1448 ft Weight Span: 1610 ft

Force on Conductor:

Transverse Force = 6371 lb OR 4.400 lb/ft

Vertical Force = 4041 lb OR 2.510 lb/ft

Resultant Force = 5.066 lb/ft

NESC Constant (Table 251-1, P. 152): 0.00 lb/ft

Final Transverse Force (Incl. NESC Constant) =

6371 lb

Final Vertical Force (Incl. NESC Constant) =

4041 lb

Force on Shield Wire:

Transverse Force = 1977 lb OR 1.365 lb/ft

Vertical Force = 845 lb OR 0.525 lb/ft

Resultant Force = 1.462 lb/ft

NESC Constant (Table 251-1, P. 152): 0.00 lb/ft

Final Transverse Force (Incl. NESC Constant) =

1977 lb

Final Vertical Force (Incl. NESC Constant) =

845 lb

Force on Tower

Wind: $F = 50 \text{ psf} \times (1.5 \times \text{Projected Area of 1 Face}) \times (\text{OLF} = 1.0)$

Weight: $W = \text{Self Weight} \times (\text{OLF} = 1.0)$

Force on Antennas, Cables and Mounts

Wind: $F = 30 \text{ psf} \times (\text{Projected Area}) \times (\text{Shape Factor: 1.3 for Round, 1.6 for Flat}) \times (\text{OLF} = 1.0)$

Weight: $W = \text{Self Weight} \times (\text{OLF} = 1.0)$

CON-EDISON TOWER L-17

Vee-string insulator

	Insulator A	Insulator B
SWINGING LINK		
Length	.00	.00
Horizontal Projection	.00	.00
Vertical Projection	.00	.00

Insulator

Length	13.90	13.90
Horizontal Projection	9.83	9.83
Vertical Projection	9.83	9.83

Load case 1; BETA = .0; PHI = .0; THETA = .0

APPLIED LOADS ON V-STRING		EFFECT ON CROSSARM INSULATOR A INSULATOR B		INSULATOR STRING TENSION	
Transverse	3569.00	5980.50	-2411.50	INSULATOR A	8457.70
Vertical	8392.00	5980.50	2411.50		
Longitudinal	.00	.00	.00	INSULATOR B	3410.38
MOMENT	---	.00	.00		
RESULTANT	9119.40	---	---		

Load case 2; BETA = .0; PHI = .0; THETA = .0

APPLIED LOADS ON V-STRING		EFFECT ON CROSSARM INSULATOR A INSULATOR B		INSULATOR STRING TENSION	
Transverse	3800.00	6857.00	-3057.00	INSULATOR A	9697.26
Vertical	9914.00	6857.00	3057.00		
Longitudinal	.00	.00	.00	INSULATOR B	4323.25
MOMENT	---	.00	.00		
RESULTANT	10617.32	---	---		

Load case 3; BETA = .0; PHI = .0; THETA = .0

APPLIED LOADS ON V-STRING		EFFECT ON CROSSARM INSULATOR A INSULATOR B		INSULATOR STRING TENSION	
Transverse	6371.00	6371.00	.00	INSULATOR A	7544.49
Vertical	4041.00	4041.00	.00		
Longitudinal	.00	.00	.00	INSULATOR B	.00
MOMENT	---	.00	.00		
RESULTANT	7544.49	---	---		

WIND FORCE ON TOWER

LC1 = CON ED STANDARD .5" ICE			
WIND PR.=	13	PSF	
FACOR=	1.5		
O.L.F=	2.54		
WT .F=	1.27		
Radial ice =	0.50	inch	

NOT CONSIDERED

Tower Sections:

Section	Section Height	qz Wind Pressure (lb/ft^2)	total projected area FT ^2	Total Fx KIPS	
7	10.00	13.00	13.96	0.69	TOP
6	11.00	13.00	15.79	0.78	
5	17.00	13.00	24.66	1.22	
4	14.00	13.00	27.05	1.34	
3	14.00	13.00	26.23	1.30	
2	15.00	13.00	36.95	1.83	BOTTOM
1	25.00	13.00	54.84	2.72	
106.00			199	9.88	kips

SECTION	Z	FX TOTAL KIPS	Num. of Joints	FX Per Joint KIPS	MOMENT DUE FX K.F
	106.00				
7	101.00	0.69	6	0.12	69.82
6	90.50	0.78	8	0.21	70.78
5	76.50	1.22	8	0.25	93.43
4	61.00	1.34	8	0.32	81.74
3	47.00	1.30	8	0.33	61.06
2	32.50	1.83	8	0.39	59.48
1	12.50	2.72	8	0.57	33.95
			8	0.34	
				2.41	
TOTAL		9.88		9.88	470.27

WIND FORCE ON TOWER

LC2 = EMERGENCY ICE			
WIND PR.=	20	PSF	
FACOR=	1.5		
O.L.F=	1		
WT.F=	1		
Radial Ice =	1.00	inch	

NOT CONSIDERED

NO ICE
AREA

Tower Sections:

Section	section height (ft.)	qz Wind Pressure (lb/ft^2)	total projected area FT ^2	Total Fx KIPS	
7	10.00	20.00	13.96	0.42	TOP
6	11.00	20.00	15.79	0.47	
5	17.00	20.00	24.66	0.74	
4	14.00	20.00	27.05	0.81	
3	14.00	20.00	26.23	0.79	
2	15.00	20.00	36.95	1.11	BOTTOM
1	25.00	20.00	54.84	1.65	
	106.00		199	5.98	kips

SECTION	Z	FX TOTAL KIPS	Num. of Joints	FX Per Joint KIPS	MOMENT DUE FX K.F
	106.00				
7.0	101.00	0.42	6	0.07	42.29
6.0	90.50	0.47	8	0.13	42.87
5.0	76.50	0.74	8	0.15	56.59
4.0	61.00	0.81	8	0.19	49.51
3.0	47.00	0.79	8	0.20	36.98
2.0	32.50	1.11	8	0.24	36.03
1.0	12.50	1.65	8	0.34	
			8	0.21	
				1.46	
TOTAL		5.98		5.98	

WIND FORCE ON TOWER

LC3 =HURRICANE			CON ED STANDARD
WIND PR.=	50	PSF	
FACOR=	1.5		
O.L.F=	1		
WT .F=	1		
Radial ice =	0.00	inch	

Tower Sections: NO ICE AREA

Section	section height (ft.)	qz Wind Pressure (lb/ft^2)	total projected area FT ^2	Total Fx KIPS	
7	10	50.00	13.96	1.05	TOP
6	11	50.00	15.79	1.18	
5	17	50.00	24.66	1.85	
4	14	50.00	27.05	2.03	
3	14	50.00	26.23	1.97	
2	15	50.00	36.95	2.77	BOTTOM
1	25	50.00	54.84	4.11	
106.00			199.48	14.96	kips

SECTION	Z	FX TOTAL KIPS	Num. of Joints	FX Per Joint KIPS	MOMENT DUE FX K.F
7	106.00	1.05	6	0.17	105.72
6	90.50	1.18	8	0.32	107.17
5	76.50	1.85	8	0.38	141.48
4	61.00	2.03	8	0.48	123.77
3	47.00	1.97	8	0.50	92.46
2	32.50	2.77	8	0.59	90.07
1	12.50	4.11	8	0.86	51.42
			8	0.51	
				3.65	
TOTAL		14.96		14.96	

WIND FORCE ON ANTENNAS & MOUNT .5" ICE

.5" ICE

LOAD CASE 1													TOTAL	TOTAL
Item	Load	Z	Wt		Wt	Wind	Shape	Aa	qz	Total	Total		Wt	FX
Appurtenance Type	Condition	(ft.)	Each (lbs.)	QTY	OLF	OLF	Factor	(sf)	Pressure (lb/ft^2)	Weight (lbs.)	F (lbs.)		(lbs.)	(lbs.)
FQ90-09-XXXX-2 & MOUNT PIPE	standard	97.00	182.63	1	1.27	2.54	1.60	11.79	4.00	231.9	192		231.94	191.6
Totals=										232	192		231.9	192

force per leg / antenna

FX	0.192	kips
FY	0.232	kips

WIND FORCE ON ANTENNAS & MOUNT 1" ICE

1" ICE

LOAD CASE 2													TOTAL	TOTAL
Item	Load	Z	Wt		Wt	Wind	Shape	Aa	Wind	Total	Total		Wt	FX
Appurtenance Type	Condition	(ft.)	Each (lbs.)	QTY	OLF	OLF	Factor	(sf)	Pressure (lb/ft^2)	Weight (lbs.)	F (lbs.)		(lbs.)	(lbs.)
FQ90-09-XXXX-2 & MOUNT PIPE	emergency ice	97.00	260.61	1	1	1	1.60	13.27	8.00	260.6	170		260.61	169.9
Totals=										261	170		260.6	170

force per leg / antenna

FX	0.042	kips
FY	0.065	kips

WIND FORCE ON ANTENNAS & MOUNT NO ICE

0" ICE

LOAD CASE 3													TOTAL	TOTAL
Item	Load	Z	Wt		Wt	Wind	Shape	Aa	Wind	Total	Total		Wt	FX
Appurtenance Type	Condition	(ft.)	Each (lbs.)	QTY	OLF	OLF	Factor	(sf)	Pressure (lb/ft^2)	Weight (lbs.)	F (lbs.)		(lbs.)	(lbs.)
FQ90-09-XXXX-2 & MOUNT PIPE	Extreme wind	97.00	96.64	1	1	1	1.60	10.33	30.00	96.6	496		96.64	496.0
Totals=										97	496		96.6	496

force per leg / antenna

FX	0.124	kips
FY	0.024	kips

CON -ED L-17 TOWER
W.O 1170.2296
BY:AMR HAFEZ
8/24/2000

WIND FORCE ON CABLES 1/2 " ICE

0.5 ICE

LOAD CASE 1													TOTAL	TOTAL
Item	Load	Z	Wt		Wt	Wind	Shape	Aa	Wind	Total	Total		Wt	FX
Appurtenance Type	Condition	(ft.)	Each	QTY	OLF	OLF	Factor	(sf)	Pressure	Weight	F		PER LEG	PER LEG
CABLES	standard	48.50	334.55	1	1.27	2.54	1.30	43.33	4.00	424.9	572		424.88	572.3
Totals=										425	572		424.9	572

per joint /per leg

FX	0.082	kips
FY	0.061	kips

1.275
1.275 OK

1.717
1.717 OK

WIND FORCE ON CABLES 1" ICE

1" ICE

LOAD CASE 2													TOTAL	TOTAL
Item	Load	Z	Wt		Wt	Wind	Shape	Aa	Wind	Total	Total		Wt	FX
Appurtenance Type	Condition	(ft.)	Each	QTY	OLF	OLF	Factor	(sf)	Pressure	Weight	F		PER LEG	PER LEG
CABLES	emergency	48.50	515.07	1	1	1	1.30	51.41	8.00	515.1	535		515.07	534.7
Totals=										515	535		515.1	535

per joint /per leg

FX	0.076	kips
FY	0.074	kips

WIND FORCE ON CABLES NO ICE

0" ICE

LOAD CASE 3													TOTAL	TOTAL
Item	Load	Z	Wt		Wt	Wind	Shape	Aa	Wind	Total	Total		Wt	FX
Appurtenance Type	Condition	(ft.)	Each	QTY	OLF	OLF	Factor	(sf)	Pressure	Weight	F		PER LEG	PER LEG
CABLES	Extreme wind	48.50	192.06	1	1	1	1.30	35.24	30.00	192.1	1374		192.06	1374.5
Totals=										192	1374		192.1	1374

per joint /per leg

FX	0.196	kips
FY	0.027	kips

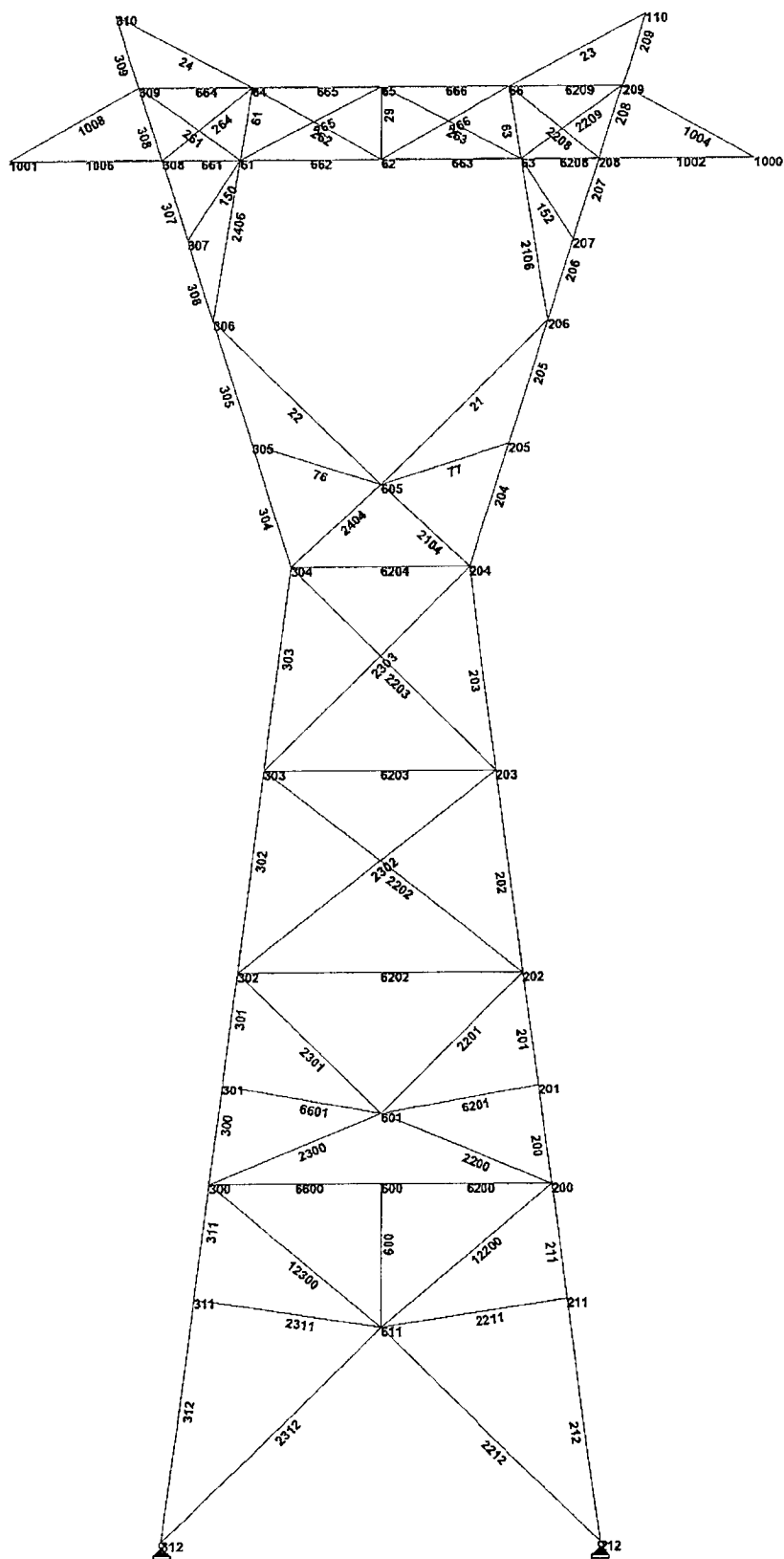
TOWER ANALYSIS MODEL AND OUTPUT

Job No 1170.2296	Sheet No 1	Rev
Part		
Ref		
By AH	Date 23-Aug-00	Chd QF
File 2296L17.std	Date/Time 22-Aug-2000 17:07	

Software licensed to Tectonic Engineering

Job Title **JOINT & MEMBER NUMBERS (FACE 200 -300)**

Client **NEXTEL COMMUNICATIONS**



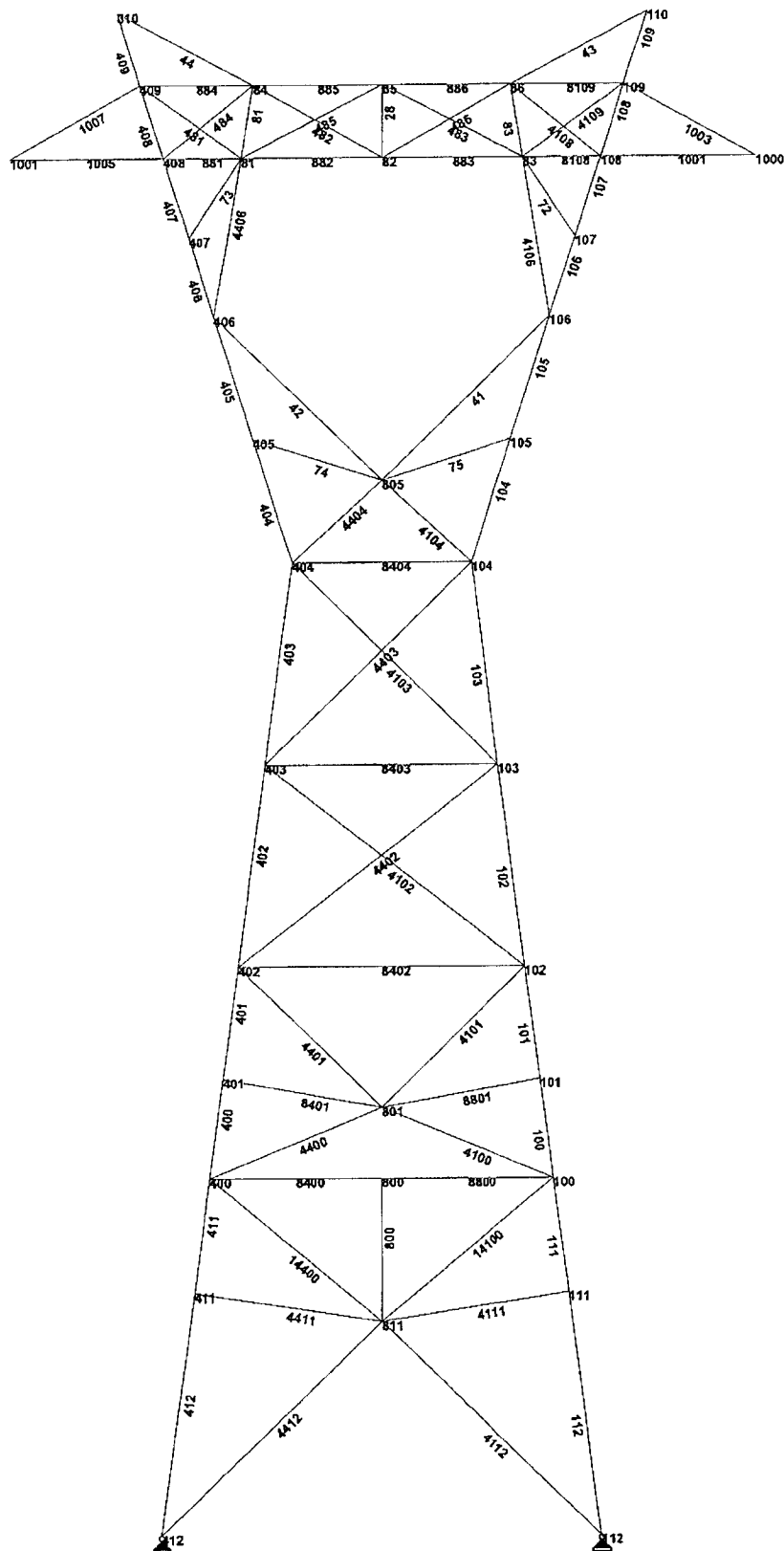


Software licensed to Tectonic Engineering

Job No 1170.2296	Sheet No 2	Rev
Part		
Ref		
By AH	Date 23-Aug-00	Chd QH
File 2296L17.std	Date/Time 22-Aug-2000 17:07	

Job Title **JOINT & MEMBER NUMBERS (FACE 100 - 400)**

Client **NEXTEL COMMUNICATIONS**





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Job No
1170.2296

Sheet No
3

Rev

Part

Job Title **JOINT & MEMBER NUMBERS (FACE 300 - 400)**

Ref

By **AH**

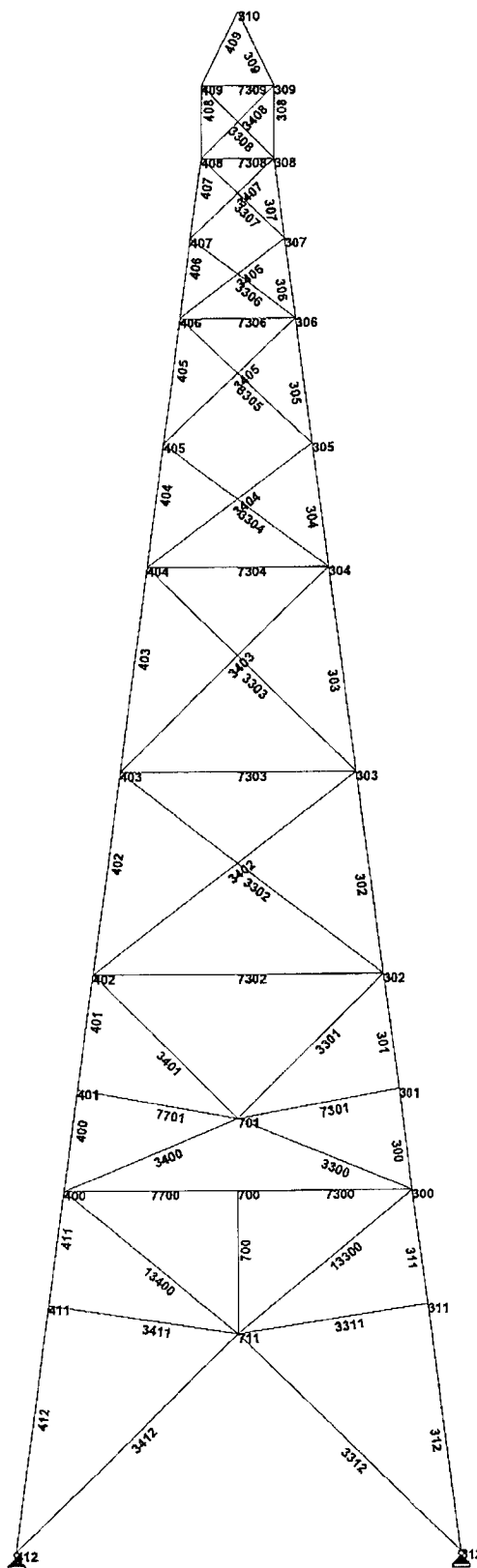
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Chd **QH**

Client **NEXTEL COMMUNICATIONS**

File **2296L17.std**

Date/Time **22-Aug-2000 17:07**



Y
Z-X



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Job No
1170.2296

Sheet No
4

Rev

Job Title **JOINT & MEMBER NUMBERS (FACE 100 -200)**

Part

Ref

By **AH**

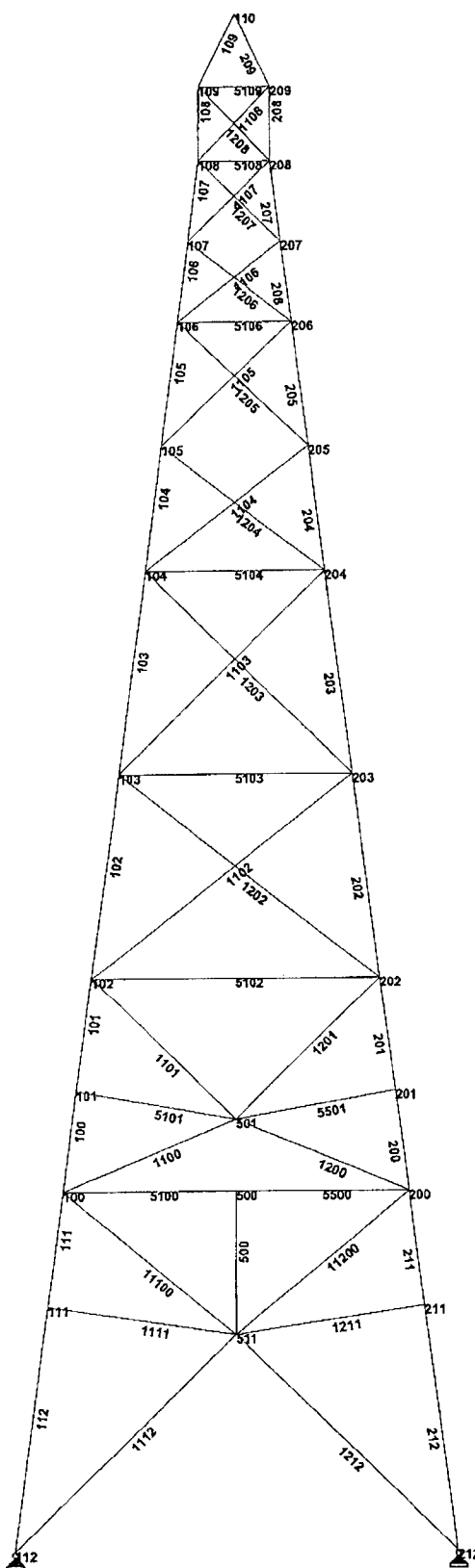
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Chd **QH**

Client **NEXTEL COMMUNICATIONS**

File **2296L17.std**

Date/Time **22-Aug-2000 17:07**



Y
Z-X

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*****
*                                     *
*      STAAD/Pro                     *
*      Version 2000      Build 1007  *
*      Proprietary Program of        *
*      RESEARCH ENGINEERS, Inc.      *
*      Date=      AUG 22, 2000       *
*      Time=      14: 6:41           *
*                                     *
*      USER ID: Tectonic Engineering *
*****

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1. STAAD SPACE CON ED L-17
2. START JOB INFORMATION
3. *
4. END JOB INFORMATION
5. *ENGINEER AMR HAFEZ
6. *DATE 8/21/00
7. *W.O 1170.2296
8. SET NL 6
9. UNIT INCHES KIP
10. CONSTANTS
11. INPUT WIDTH 72
12. *BY AMR HAFEZ
13. *LEG100
14. UNIT FEET KIP
15. JOINT COORDINATES
16. 61 2.5 76 9.833; 62 2.5 76 0; 63 2.5 76 -9.833; 64 2.5 81 8.978
17. 65 2.5 81 0; 66 2.5 81 -8.978; 81 -2.5 76 9.833; 82 -2.5 76 0
18. 83 -2.5 76 -9.833; 84 -2.5 81 8.978; 85 -2.5 81 0; 86 -2.5 81 -8.978
19. 100 -12.001 5 -12.001; 101 -11.065 12 -11.065; 102 -9.995 20 -9.995
20. 103 -8.123 34 -8.123; 104 -6.25 48 -6.25; 105 -5.112 56.5 -8.99
21. 106 -3.973 65 -11.73; 107 -3.237 70.5 -13.504; 108 -2.5 76 -15.277
22. 109 -2.5 81 -16.888; 110 0 86 -18.5; 111 -13.071 -3 -13.071
23. 112 -15.344 -20 -15.344; 200 12.001 5 -12.001; 201 11.065 12 -11.065
24. 202 9.995 20 -9.995; 203 8.123 34 -8.123; 204 6.25 48 -6.25
25. 205 5.112 56.5 -8.99; 206 3.973 65 -11.73; 207 3.237 70.5 -13.504
26. 208 2.5 76 -15.277; 209 2.5 81 -16.888; 211 13.071 -3 -13.071
27. 212 15.344 -20 -15.344; 300 12.001 5 12.001; 301 11.065 12 11.065
28. 302 9.995 20 9.995; 303 8.123 34 8.123; 304 6.25 48 6.25
29. 305 5.112 56.5 8.99; 306 3.973 65 11.73; 307 3.237 70.5 13.504
30. 308 2.5 76 15.277; 309 2.5 81 16.888; 310 0 86 18.5
31. 311 13.071 -3 13.071; 312 15.344 -20 15.344; 400 -12.001 5 12.001
32. 401 -11.065 12 11.065; 402 -9.995 20 9.995; 403 -8.123 34 8.123
33. 404 -6.25 48 6.25; 405 -5.112 56.5 8.99; 406 -3.973 65 11.73
34. 407 -3.237 70.5 13.504; 408 -2.5 76 15.277; 409 -2.5 81 16.888
35. 411 -13.071 -3 13.071; 412 -15.344 -20 15.344; 500 0 5 -12.001
36. 501 0 10 -11.33; 511 0 -5 -13.472; 600 12.001 5 0; 601 11.33 10 0
37. 605 5.491 53.667 0; 611 13.472 -5 0; 700 0 5 12.001; 701 0 10 11.33
38. 711 0 -5 13.472; 800 -12.001 5 0; 801 -11.33 10 0; 805 -5.491 53.667 0
39. 811 -13.472 -5 0; 1000 0 76 -26; 1001 0 76 26; 1003 0 76 -9.833
40. 1004 0 76 9.833
42. MEMBER INCIDENCES

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CON ED L-17

-- PAGE NO. 2

43. 1 108 63; 2 83 208; 3 83 62; 4 63 82; 5 82 61; 6 62 81; 7 81 308
44. 8 61 408; 9 81 1004; 10 83 1003; 11 82 62; 13 86 209; 14 86 66
45. 15 86 65; 17 85 65; 19 65 84; 20 84 64; 21 605 206; 22 605 306
46. 23 66 110; 24 64 310; 28 85 82; 29 65 62; 30 805 306; 31 605 406
47. 32 805 206; 33 605 106; 34 1003 86; 35 1003 66; 36 1004 84; 37 1004 64
48. 38 1003 108; 39 1003 208; 40 1004 308; 41 805 106; 42 805 406
49. 43 86 110; 44 84 310; 52 404 204; 53 104 304; 54 403 203; 55 103 303
50. 56 102 302; 57 202 402; 58 84 309; 61 61 64; 63 63 66; 70 206 83
51. 71 106 63; 72 107 83; 73 407 81; 74 805 405; 75 805 105; 76 605 305
52. 77 605 205; 78 406 61; 79 306 81; 81 81 84; 83 83 86; 90 801 501
53. 91 501 601; 92 601 701; 93 701 801; 94 501 701; 100 100 101
54. 101 101 102; 102 102 103; 103 103 104; 104 104 105; 105 105 106
55. 106 106 107; 107 107 108; 108 108 109; 109 109 110; 111 111 100
56. 112 112 111; 141 1004 408; 142 805 205; 143 605 105; 144 805 305
57. 145 605 405; 146 805 204; 147 605 104; 148 805 304; 149 605 404
58. 150 307 61; 151 61 407; 152 207 63; 153 83 207; 154 701 501
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66. 406 406 407; 407 407 408; 408 408 409; 409 409 310; 411 411 400
67. 412 412 411; 481 81 409; 482 82 84; 483 83 85; 484 84 408; 485 85 81
68. 486 86 82; 500 500 511; 600 600 611; 661 61 308; 662 62 61; 663 63 62
69. 664 64 309; 665 65 64; 666 66 65; 700 700 711; 800 800 811; 881 81 408
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71. 1002 1000 208; 1003 1000 109; 1004 1000 209; 1005 1001 408
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73. 1102 102 203; 1103 103 204; 1104 104 205; 1105 105 206; 1106 106 207
74. 1107 107 208; 1108 108 209; 1111 111 511; 1112 112 511; 1200 200 501
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78. 2203 203 304; 2208 208 66; 2209 209 63; 2211 211 611; 2212 212 611
79. 2300 300 601; 2301 601 302; 2302 302 203; 2303 303 204; 2311 311 611
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81. 3302 302 403; 3303 303 404; 3304 304 405; 3305 305 406; 3306 306 407
82. 3307 307 408; 3308 308 409; 3311 311 711; 3312 312 711; 3400 400 701
83. 3401 701 402; 3402 402 303; 3403 403 304; 3404 404 305; 3405 405 306
84. 3406 406 307; 3407 407 308; 3408 408 309; 3411 411 711; 3412 412 711
85. 4100 100 801; 4101 801 102; 4102 102 403; 4103 103 404; 4104 104 805
86. 4106 106 83; 4108 108 86; 4109 109 83; 4111 111 811; 4112 112 811
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92. 6600 600 300; 6601 601 301; 7300 300 700; 7301 301 701; 7302 302 402
93. 7303 303 403; 7304 304 404; 7306 306 406; 7308 308 408; 7309 309 409
94. 7700 700 400; 7701 701 401; 8108 108 83; 8109 109 86; 8400 400 800
95. 8401 401 801; 8402 402 102; 8403 403 103; 8404 404 104; 8800 800 100
96. 8801 801 101; 8802 1003 63; 8803 1004 61; 11100 100 511; 11200 200 511
97. 12200 200 611; 12300 300 611; 13300 300 711; 13400 400 711
98. 14100 100 811; 14400 400 811; 14401 800 500; 14402 500 600

CON ED L-17

-- PAGE NO. 3

99. 14403 600 700; 14404 800 700; 14405 700 500; 14406 811 511
100. 14407 511 611; 14408 611 711; 14409 711 811; 14410 511 711
101. *
102. *
103. *
104. *
105. *HORIZ
106. *
107. *VERTICAL
108. *
109. *1009 1002 1003; 1010 1002 1004
110. START USER TABLE
111. TABLE 1
112. UNIT INCHES KIP
113. ANGLE
114. L1751752
115. 1.75 1.75 0.125 0.343 0 0
116. L1751753
117. 1.75 1.75 0.125 0.537 0 0
118. L1751754
119. 1.75 1.75 0.333 0.772 0 0
120. END
121. UNIT INCHES KIP
122. MEMBER PROPERTY AMERICAN
123. *LEGS
124. 100 200 300 400 TABLE ST L50506
125. 101 201 301 401 TABLE ST L50506
126. 102 202 302 402 TABLE ST L40406
127. 103 203 303 403 TABLE ST L40406
128. 104 204 304 404 TABLE ST L40405
129. 105 205 305 405 TABLE ST L40405
130. 106 206 306 406 TABLE ST L40405
131. 107 207 307 407 TABLE ST L40405
132. 108 208 308 408 TABLE ST L40405
133. 109 209 309 409 TABLE ST L40405
134. *DIAGONALS FACE 100-200 _400-300
135. 1100 1200 3300 3400 TABLE ST L30303
136. 1101 1201 3301 3401 TABLE ST L30303
137. 1102 1202 3302 3402 TABLE ST L25253
138. 1103 1203 3303 3403 TABLE ST L25253
139. 1104 1204 3304 3404 TABLE ST L25253
140. 1105 1205 3305 3405 TABLE ST L25253
141. 1106 1206 3306 3406 UPTABLE 1 L1751753
142. 1107 1207 3307 3407 UPTABLE 1 L1751753
143. 1108 1208 3308 3408 TABLE ST L20203
144. *DIAGONALS FACE 100-400 _200-300
145. 2200 2300 4100 4400 TABLE ST L30303
146. 2201 2301 4101 4401 TABLE ST L30303
147. 2202 2302 4102 4402 TABLE ST L25253
148. 2203 2303 4103 4403 TABLE ST L25253
149. *
150. 2104 2404 4104 4404 TABLE ST L35354
151. 21 22 41 42 TABLE ST L35354
152. 2106 2406 4106 4406 TABLE ST L35354
153. 61 63 81 83 TABLE ST L25253
154. 23 24 43 44 TABLE ST L35354

CON ED L-17

-- PAGE NO. 4

155. *
156. *FACE 100 -400 _200-300 LEVEL 108 MEMBERS
157. 2208 4108 TABLE ST L25253
158. 263 483 TABLE ST L25253
159. 262 482 TABLE ST L25253
160. 261 481 TABLE ST L25253
161. 2209 4109 TABLE ST L25253
162. 266 486 TABLE ST L25253
163. 265 485 TABLE ST L25253
164. 264 484 TABLE ST L25253
165. *
166. *HORIZONTAL
167. *FACE 100- 200 _FACE 300-400 HORIZ
168. 5101 7301 TABLE ST L30303
169. 5501 7701 TABLE ST L30303
170. * *
171. 5102 7302 TABLE ST L40304
172. 5103 7303 TABLE ST L40304
173. 5104 7304 TABLE ST L40304
174. *
175. 5106 7306 TABLE ST L20203
176. 5108 7308 TABLE ST L20203
177. 5109 7309 UPTABLE 1 L1751753
178. *5110 7310 UPTABLE 1 L1751753
179. *5111 7311 UPTABLE 1 L1751753
180. *FACE 100-400 _200-300 HPRIZ
181. 6201 8401 TABLE ST L30303
182. 6601 8801 TABLE ST L30303
183. * *
184. 6202 8402 TABLE ST L40304
185. 6203 8403 TABLE ST L40304
186. 6204 8404 TABLE ST L40304
187. * *
188. 6208 8108 TABLE ST L40404
189. 663 883 TABLE ST L40404
190. 662 882 TABLE ST L40404
191. 661 881 TABLE ST L40404
192. 6209 8109 TABLE ST L40404
193. 666 886 TABLE ST L40404
194. 665 885 TABLE ST L40404
195. 664 884 TABLE ST L40404
196. *6210
197. *8110 UPTABLE 1 L1751753
198. *6310 UPTABLE 1 L1751753
199. *8410
200. *ARM MEMBERS
201. 1001 1005 TABLE ST L40404
202. 1002 1006 TABLE ST L40404
203. *1003 1007 UPTABLE 1 L1751754
204. *1004 1008 UPTABLE 1 L1751754
205. 1003 1007 TABLE ST L20203
206. 1004 1008 TABLE ST L20203
207. *MID WIRE
208. *1009 1010 PRIS .115 0 0 0 0 0 0 0 0
209. *DUMMY
210. *PLAN 108

CON ED L-17

-- PAGE NO. 5

211. 14401 TO 14410 TABLE ST L20203
212. 1 TABLE ST L20203
213. 2 TABLE ST L20203
214. 3 TABLE ST L25203
215. 4 TABLE ST L25203
216. 5 TABLE ST L25203
217. 6 TABLE ST L25203
218. 7 TABLE ST L20203
219. 8 TABLE ST L20203
220. 9 TABLE ST L30304
221. 10 TABLE ST L30304
222. 11 TABLE SD L25254
223. 8802 TABLE ST L30304
224. 8803 TABLE ST L30304
225. *PLAN 109
226. 13 TABLE ST L30303
227. 14 TABLE ST L20203
228. 15 TABLE ST L30303
229. 17 UPTABLE 1 L1751753
230. 19 TABLE ST L30303
231. 20 TABLE ST L20203
232. 58 TABLE ST L30303
233. *
234. *VERTICAL PLAN
235. 28 TABLE ST L20203
236. 29 TABLE ST L20203
237. *
238. 30 TO 33 TABLE ST L20203
239. 34 TO 37 TABLE ST L20203
240. 38 TO 40 141 UPTABLE 1 L1751752
241. *
242. 52 TO 57 TABLE ST L20203
243. 90 TO 94 TABLE ST L20203
244. 142 TO 145 UPTABLE 1 L1751752
245. 146 TO 149 UPTABLE 1 L1751752
246. 70 TO 79 UPTABLE 1 L1751752
247. 150 TO 154 UPTABLE 1 L1751752
248. *L17EXT
249. 112 TABLE ST L50506
250. 111 TABLE ST L50506
251. 212 TABLE ST L50506
252. 211 TABLE ST L50506
253. 312 TABLE ST L50506
254. 311 TABLE ST L50506
255. 412 TABLE ST L50506
256. 411 TABLE ST L50506
257. *
258. 1112 TABLE ST L30303
259. 1212 TABLE ST L30303
260. 2212 TABLE ST L30303
261. 2312 TABLE ST L30303
262. 3312 TABLE ST L30303
263. 3412 TABLE ST L30303
264. 4412 TABLE ST L30303
265. 4112 TABLE ST L30303
266. *

CON ED L-17

-- PAGE NO. 6

267. 1111 TABLE ST L35304
268. 1211 TABLE ST L35304
269. 2211 TABLE ST L35304
270. 2311 TABLE ST L35304
271. 3311 TABLE ST L35304
272. 3411 TABLE ST L35304
273. 4411 TABLE ST L35304
274. 4111 TABLE ST L35304
275. *
276. 11100 TABLE ST L35304
277. 11200 TABLE ST L35304
278. 12200 TABLE ST L35304
279. 12300 TABLE ST L35304
280. 13300 TABLE ST L35304
281. 13400 TABLE ST L35304
282. 14400 TABLE ST L35304
283. 14100 TABLE ST L35304
284. *
285. *HORIZ
286. 5100 TABLE SD L30254
287. 5500 TABLE SD L30254
288. 6200 TABLE SD L30254
289. 6600 TABLE SD L30254
290. 7300 TABLE SD L30254
291. 7700 TABLE SD L30254
292. 8400 TABLE SD L30254
293. 8800 TABLE SD L30254
294. *
295. *VERTICAL
296. 800 TABLE ST L35304
297. 600 TABLE ST L35304
298. 700 TABLE ST L35304
299. 500 TABLE ST L35304
300. SUPPORTS
301. 112 212 312 412 PINNED
302. *
303. CONSTANTS
304. E STEEL MEMB 1 TO 11 13 TO 15 17 19 TO 24 28 TO 44 52 TO 58 61 63 70 -
305. 71 TO 79 81 83 90 TO 94 100 TO 109 111 112 141 TO 154 200 TO 209 211 -
306. 212 261 TO 266 300 TO 309 311 312 400 TO 409 411 412 481 TO 486 500 -
307. 600 661 TO 666 700 800 881 TO 886 1001 TO 1008 1100 TO 1108 1111 1112 -
308. 1200 TO 1208 1211 1212 2104 2106 2200 TO 2203 2208 2209 2211 2212 2300 -
309. 2301 TO 2303 2311 2312 2404 2406 3300 TO 3308 3311 3312 3400 TO 3408 -
310. 3411 3412 4100 TO 4104 4106 4108 4109 4111 4112 4400 TO 4404 4406 4411 -
311. 4412 5100 TO 5104 5106 5108 5109 5500 5501 6200 TO 6204 6208 6209 6600 -
312. 6601 7300 TO 7304 7306 7308 7309 7700 7701 8108 8109 8400 TO 8404 8800 -
313. 8801 TO 8803 11100 11200 12200 12300 13300 13400 14100 14400 14401 -
314. TO 14410
315. DENSITY STEEL MEMB 1 TO 11 13 TO 15 17 19 TO 24 28 TO 44 52 TO 58 61 -
316. 63 70 TO 79 81 83 90 TO 94 100 TO 109 111 112 141 TO 154 200 TO 209 -
317. 211 212 261 TO 266 300 TO 309 311 312 400 TO 409 411 412 481 TO 486 -
318. 500 600 661 TO 666 700 800 881 TO 886 1001 TO 1008 1100 TO 1108 1111 -
319. 1112 1200 TO 1208 1211 1212 2104 2106 2200 TO 2203 2208 2209 2211 2212 -
320. 2300 TO 2303 2311 2312 2404 2406 3300 TO 3308 3311 3312 3400 TO 3408 -
321. 3411 3412 4100 TO 4104 4106 4108 4109 4111 4112 4400 TO 4404 4406 4411 -
322. 4412 5100 TO 5104 5106 5108 5109 5500 5501 6200 TO 6204 6208 6209 6600 -

CON ED L-17

-- PAGE NO. 7

323. 6601 7300 TO 7304 7306 7308 7309 7700 7701 8108 8109 8400 TO 8404 8800 -
324. 8801 TO 8803 11100 11200 12200 12300 13300 13400 14100 14400 14401 -
325. TO 14410
326. POISSON STEEL MEMB 1 TO 11 13 TO 15 17 19 TO 24 28 TO 44 52 TO 58 61 -
327. 63 70 TO 79 81 83 90 TO 94 100 TO 109 111 112 141 TO 154 200 TO 209 -
328. 211 212 261 TO 266 300 TO 309 311 312 400 TO 409 411 412 481 TO 486 -
329. 500 600 661 TO 666 700 800 881 TO 886 1001 TO 1008 1100 TO 1108 1111 -
330. 1112 1200 TO 1208 1211 1212 2104 2106 2200 TO 2203 2208 2209 2211 2212 -
331. 2300 TO 2303 2311 2312 2404 2406 3300 TO 3308 3311 3312 3400 TO 3408 -
332. 3411 3412 4100 TO 4104 4106 4108 4109 4111 4112 4400 TO 4404 4406 4411 -
333. 4412 5100 TO 5104 5106 5108 5109 5500 5501 6200 TO 6204 6208 6209 6600 -
334. 6601 7300 TO 7304 7306 7308 7309 7700 7701 8108 8109 8400 TO 8404 8800 -
335. 8801 TO 8803 11100 11200 12200 12300 13300 13400 14100 14400 14401 -
336. TO 14410
337. *
338. *
339. MEMBER TRUSS
340. 1100 1200 3300 3400
341. MEMBER TRUSS
342. 2200 2300 4100 4400
343. MEMBER TRUSS
344. 1101 1201 3301 3401
345. MEMBER TRUSS
346. 2201 2301 4101 4401
347. MEMBER TRUSS
348. 1102 1202 3302 3402
349. MEMBER TRUSS
350. 1103 1203 3303 3403
351. MEMBER TRUSS
352. 2202 2302 4102 4402
353. MEMBER TRUSS
354. 2203 2303 4103 4403
355. MEMBER TRUSS
356. 52 53 56 57
357. *
358. MEMBER TRUSS
359. 1112 1212 2212 2312 3312 3412 4112 4412
360. MEMBER TRUSS
361. 11100 11200 12200 12300 13300 13400 14100 14400
362. *
363. UNIT FEET KIP
364. MEMBER TENSION
365. 1100 1200 3300 3400
366. MEMBER TENSION
367. 1101 1201 3301 3401
368. MEMBER TENSION
369. 2200 2300 4100 4400
370. MEMBER TENSION
371. 2201 2301 4101 4401
372. MEMBER TENSION
373. 1102 1202 3302 3402
374. MEMBER TENSION
375. 1103 1203 3303 3403
376. MEMBER TENSION
377. 2202 2302 4102 4402
378. MEMBER TENSION

CON ED L-17

-- PAGE NO. 8

379. 2203 2303 4103 4403
 380. MEMBER TENSION
 381. 52 53 56 57
 382. MEMBER TENSION
 383. 1112 1212 2212 2312 3312 3412 4112 4412
 384. MEMBER TENSION
 385. 11100 11200 12200 12300 13300 13400 14100 14400
 386. *
 387. LOAD 1 / CONED STANDARD / DIRECTION A
 388. SELFWEIGHT Y -1.397
 389. * WIND ON TOWER
 390. JOINT LOAD
 391. 110 310 FZ 0.12
 392. 108 208 308 408 FZ 0.21
 393. 106 206 306 406 FZ 0.25
 394. 104 204 304 404 FZ 0.32
 395. 103 203 303 403 FZ 0.33
 396. 102 202 302 402 FZ 0.39
 397. 100 200 300 400 FZ 0.57
 398. 112 212 312 412 FZ 0.34
 399. *
 400. *JOINT LOAD
 401. 110 310 FZ 2.18 FY -2.74
 402. 1000 1001 FZ 3.57 FY -8.39
 403. 1003 FZ 5.98 FY -5.98
 404. 1004 FZ -2.411 FY -2.411
 405. *
 406. *WIND ON ANTENNA
 407. 109 209 85 65 409 309 FZ 0.096 FY -0.116
 408. 108 208 82 62 408 308 FZ 0.096 FY -0.116
 409. *CABLES LEG 100 400 300
 410. 109 409 309 FZ 0.082 FY -0.061
 411. 108 408 308 FZ 0.082 FY -0.061
 412. 106 406 306 FZ 0.082 FY -0.061
 413. 104 404 304 FZ 0.082 FY -0.061
 414. 103 403 303 FZ 0.082 FY -0.061
 415. 102 402 302 FZ 0.082 FY -0.061
 416. 100 400 300 FZ 0.082 FY -0.061
 418. PERFORM ANALYSIS

PROBLEM STATISTICS

 NUMBER OF JOINTS/MEMBER+ELEMENTS/SUPPORTS = 80/ 300/ 4
 ORIGINAL/FINAL BAND-WIDTH = 79/ 18
 TOTAL PRIMARY LOAD CASES = 1, TOTAL DEGREES OF FREEDOM = 468
 SIZE OF STIFFNESS MATRIX = 53352 DOUBLE PREC. WORDS
 REQD/AVAIL. DISK SPACE = 12.70/ 3776.3 MB, EXMEM = 141.4 MB

++ Processing Element Stiffness Matrix. 14: 6:41
 ++ Processing Global Stiffness Matrix. 14: 6:41
 ++ Processing Triangular Factorization. 14: 6:41
 ++ Calculating Joint Displacements. 14: 6:41
 ++ Processing Element Stiffness Matrix. 14: 6:41

CON ED L-17

-- PAGE NO. 9

++ Processing Global Stiffness Matrix. 14: 6:41
++ Processing Triangular Factorization. 14: 6:41
++ Calculating Joint Displacements. 14: 6:41
++ Calculating Member Forces. 14: 6:41

419. PERFORM ANALYSIS

++ Processing Element Stiffness Matrix. 14: 6:41
++ Processing Global Stiffness Matrix. 14: 6:41
++ Processing Triangular Factorization. 14: 6:41
++ Calculating Joint Displacements. 14: 6:41
++ Processing Element Stiffness Matrix. 14: 6:41
++ Processing Global Stiffness Matrix. 14: 6:41
++ Processing Triangular Factorization. 14: 6:41
++ Calculating Joint Displacements. 14: 6:41
++ Calculating Member Forces. 14: 6:41

420. PERFORM ANALYSIS

++ Processing Element Stiffness Matrix. 14: 6:41
++ Processing Global Stiffness Matrix. 14: 6:41
++ Processing Triangular Factorization. 14: 6:41
++ Calculating Joint Displacements. 14: 6:41
++ Processing Element Stiffness Matrix. 14: 6:41
++ Processing Global Stiffness Matrix. 14: 6:41
++ Processing Triangular Factorization. 14: 6:41
++ Calculating Joint Displacements. 14: 6:42
++ Calculating Member Forces. 14: 6:42

421. PERFORM ANALYSIS

++ Processing Element Stiffness Matrix. 14: 6:42
++ Processing Global Stiffness Matrix. 14: 6:42
++ Processing Triangular Factorization. 14: 6:42
++ Calculating Joint Displacements. 14: 6:42
++ Processing Element Stiffness Matrix. 14: 6:42
++ Processing Global Stiffness Matrix. 14: 6:42
++ Processing Triangular Factorization. 14: 6:42
++ Calculating Joint Displacements. 14: 6:42
++ Calculating Member Forces. 14: 6:42

422. PERFORM ANALYSIS

++ Processing Element Stiffness Matrix. 14: 6:42
++ Processing Global Stiffness Matrix. 14: 6:42
++ Processing Triangular Factorization. 14: 6:42
++ Calculating Joint Displacements. 14: 6:42
++ Processing Element Stiffness Matrix. 14: 6:42
++ Processing Global Stiffness Matrix. 14: 6:42
++ Processing Triangular Factorization. 14: 6:42
++ Calculating Joint Displacements. 14: 6:42
++ Calculating Member Forces. 14: 6:42

423. PERFORM ANALYSIS

++ Processing Element Stiffness Matrix. 14: 6:42
++ Processing Global Stiffness Matrix. 14: 6:42
++ Processing Triangular Factorization. 14: 6:42
++ Calculating Joint Displacements. 14: 6:42
++ Processing Element Stiffness Matrix. 14: 6:42
++ Processing Global Stiffness Matrix. 14: 6:42

CON ED L-17

-- PAGE NO. 10

++ Processing Triangular Factorization. 14: 6:42
++ Calculating Joint Displacements. 14: 6:42
++ Calculating Member Forces. 14: 6:42

424. CHANGE
425. MEMBER TENSION
426. 1100 1200 3300 3400
427. MEMBER TENSION
428. 1101 1201 3301 3401
429. MEMBER TENSION
430. 2200 2300 4100 4400
431. MEMBER TENSION
432. 2201 2301 4101 4401
433. MEMBER TENSION
434. 1102 1202 3302 3402
435. MEMBER TENSION
436. 1103 1203 3303 3403
437. MEMBER TENSION
438. 2202 2302 4102 4402
439. MEMBER TENSION
440. 2203 2303 4103 4403
441. MEMBER TENSION
442. 52 53 56 57
443. MEMBER TENSION
444. 1112 1212 2212 2312 3312 3412 4112 4412
445. MEMBER TENSION
446. 11100 11200 12200 12300 13300 13400 14100 14400
447. LOAD 2 /CON ED EMERGENCY ICE /DIRECTION A
448. SELFWEIGHT Y -1.1
449. * WIND ON TOWER
450. JOINT LOAD
451. 110 310 FZ 0.07
452. 108 208 308 408 FZ 0.13
453. 106 206 306 406 FZ 0.15
454. 104 204 304 404 FZ 0.19
455. 103 203 303 403 FZ 0.2
456. 102 202 302 402 FZ 0.24
457. 100 200 300 400 FZ 0.34
458. 112 212 312 412 FZ 0.21
459. *
460. *JOINT LOAD
461. 110 310 FZ 2.71 FY -4.28
462. 1000 1001 FZ 3.8 FY -9.91
463. 1003 FZ 6.857 FY -6.857
464. 1004 FZ -3.057 FY -3.057
465. *WIND ON ANTENNA
466. 109 209 85 65 409 309 FZ 0.021 FY -0.033
467. 108 208 82 62 408 308 FZ 0.021 FY -0.033
468. *CABLES LEG 100 400 300
469. 109 409 309 FZ 0.076 FY -0.074
470. 108 408 308 FZ 0.076 FY -0.074
471. 106 406 306 FZ 0.076 FY -0.074
472. 104 404 304 FZ 0.076 FY -0.074
473. 103 403 303 FZ 0.076 FY -0.074
474. 102 402 302 FZ 0.076 FY -0.074
475. 100 400 300 FZ 0.076 FY -0.074
477. *

CON ED L-17

-- PAGE NO. 11

478. PERFORM ANALYSIS

++ Processing Element Stiffness Matrix.	14: 6:42
++ Processing Global Stiffness Matrix.	14: 6:42
++ Processing Triangular Factorization.	14: 6:42
++ Calculating Joint Displacements.	14: 6:42
++ Processing Element Stiffness Matrix.	14: 6:42
++ Processing Global Stiffness Matrix.	14: 6:42
++ Processing Triangular Factorization.	14: 6:42
++ Calculating Joint Displacements.	14: 6:42
++ Calculating Member Forces.	14: 6:42

479. PERFORM ANALYSIS

++ Processing Element Stiffness Matrix.	14: 6:42
++ Processing Global Stiffness Matrix.	14: 6:42
++ Processing Triangular Factorization.	14: 6:42
++ Calculating Joint Displacements.	14: 6:42
++ Processing Element Stiffness Matrix.	14: 6:42
++ Processing Global Stiffness Matrix.	14: 6:42
++ Processing Triangular Factorization.	14: 6:42
++ Calculating Joint Displacements.	14: 6:42
++ Calculating Member Forces.	14: 6:42

480. PERFORM ANALYSIS

++ Processing Element Stiffness Matrix.	14: 6:42
++ Processing Global Stiffness Matrix.	14: 6:42
++ Processing Triangular Factorization.	14: 6:42
++ Calculating Joint Displacements.	14: 6:42
++ Processing Element Stiffness Matrix.	14: 6:42
++ Processing Global Stiffness Matrix.	14: 6:42
++ Processing Triangular Factorization.	14: 6:42
++ Calculating Joint Displacements.	14: 6:43
++ Calculating Member Forces.	14: 6:43

481. PERFORM ANALYSIS

++ Processing Element Stiffness Matrix.	14: 6:43
++ Processing Global Stiffness Matrix.	14: 6:43
++ Processing Triangular Factorization.	14: 6:43
++ Calculating Joint Displacements.	14: 6:43
++ Processing Element Stiffness Matrix.	14: 6:43
++ Processing Global Stiffness Matrix.	14: 6:43
++ Processing Triangular Factorization.	14: 6:43
++ Calculating Joint Displacements.	14: 6:43
++ Calculating Member Forces.	14: 6:43

482. PERFORM ANALYSIS

++ Processing Element Stiffness Matrix.	14: 6:43
++ Processing Global Stiffness Matrix.	14: 6:43
++ Processing Triangular Factorization.	14: 6:43
++ Calculating Joint Displacements.	14: 6:43
++ Processing Element Stiffness Matrix.	14: 6:43
++ Processing Global Stiffness Matrix.	14: 6:43
++ Processing Triangular Factorization.	14: 6:43
++ Calculating Joint Displacements.	14: 6:43
++ Calculating Member Forces.	14: 6:43

483. PERFORM ANALYSIS

CON ED L-17

-- PAGE NO. 12

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++ Processing Element Stiffness Matrix.      14: 6:43
++ Processing Global Stiffness Matrix.      14: 6:43
++ Processing Triangular Factorization.      14: 6:43
++ Calculating Joint Displacements.          14: 6:43
++ Processing Element Stiffness Matrix.      14: 6:43
++ Processing Global Stiffness Matrix.      14: 6:43
++ Processing Triangular Factorization.      14: 6:43
++ Calculating Joint Displacements.          14: 6:43
++ Calculating Member Forces.               14: 6:43

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484. CHANGE
485. MEMBER TENSION
486. 1100 1200 3300 3400
487. MEMBER TENSION
488. 1101 1201 3301 3401
489. MEMBER TENSION
490. 2200 2300 4100 4400
491. MEMBER TENSION
492. 2201 2301 4101 4401
493. MEMBER TENSION
494. 1102 1202 3302 3402
495. MEMBER TENSION
496. 1103 1203 3303 3403
497. MEMBER TENSION
498. 2202 2302 4102 4402
499. MEMBER TENSION
500. 2203 2303 4103 4403
501. MEMBER TENSION
502. 52 53 56 57
503. MEMBER TENSION
504. 1112 1212 2212 2312 3312 3412 4112 4412
505. MEMBER TENSION
506. 11100 11200 12200 12300 13300 13400 14100 14400
507. LOAD 3 /CON-ED HURRICANE / DIRECTION A
508. SELFWEIGHT Y -1.1
509. * WIND ON TOWER
510. JOINT LOAD
511. 110 310 FZ 0.17
512. 108 208 308 408 FZ 0.32
513. 106 206 306 406 FZ 0.38
514. 104 204 304 404 FZ 0.48
515. 103 203 303 403 FZ 0.5
516. 102 202 302 402 FZ 0.59
517. 100 200 300 400 FZ 0.86
518. 112 212 312 412 FZ 0.51
519. *
520. *JOINT LOAD
521. 110 310 FZ 1.98 FY -0.85
522. 1000 1001 FZ 6.37 FY -4.04
523. 1003 FZ 6.371 FY -4.041
524. 1004 FZ 0 FY 0
525. *
526. *WIND ON ANTENNA
527. 109 209 85 65 409 309 FZ 0.062 FY -0.012
528. 108 208 82 62 408 308 FZ 0.062 FY -0.012
529. *CABLES LEG 100 400 300

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CON ED L-17

-- PAGE NO. 13

530. 109 409 309 FZ 0.076 FY -0.074
531. 108 408 308 FZ 0.076 FY -0.074
532. 106 406 306 FZ 0.076 FY -0.074
533. 104 404 304 FZ 0.076 FY -0.074
534. 103 403 303 FZ 0.076 FY -0.074
535. 102 402 302 FZ 0.076 FY -0.074
536. 100 400 300 FZ 0.076 FY -0.074
538. *

539. PERFORM ANALYSIS

++ Processing Element Stiffness Matrix.	14: 6:43
++ Processing Global Stiffness Matrix.	14: 6:43
++ Processing Triangular Factorization.	14: 6:43
++ Calculating Joint Displacements.	14: 6:43
++ Processing Element Stiffness Matrix.	14: 6:43
++ Processing Global Stiffness Matrix.	14: 6:43
++ Processing Triangular Factorization.	14: 6:43
++ Calculating Joint Displacements.	14: 6:43
++ Calculating Member Forces.	14: 6:43

540. PERFORM ANALYSIS

++ Processing Element Stiffness Matrix.	14: 6:43
++ Processing Global Stiffness Matrix.	14: 6:43
++ Processing Triangular Factorization.	14: 6:43
++ Calculating Joint Displacements.	14: 6:43
++ Processing Element Stiffness Matrix.	14: 6:43
++ Processing Global Stiffness Matrix.	14: 6:43
++ Processing Triangular Factorization.	14: 6:43
++ Calculating Joint Displacements.	14: 6:43
++ Calculating Member Forces.	14: 6:43

541. PERFORM ANALYSIS

++ Processing Element Stiffness Matrix.	14: 6:43
++ Processing Global Stiffness Matrix.	14: 6:43
++ Processing Triangular Factorization.	14: 6:43
++ Calculating Joint Displacements.	14: 6:43
++ Processing Element Stiffness Matrix.	14: 6:44
++ Processing Global Stiffness Matrix.	14: 6:44
++ Processing Triangular Factorization.	14: 6:44
++ Calculating Joint Displacements.	14: 6:44
++ Calculating Member Forces.	14: 6:44

542. PERFORM ANALYSIS

++ Processing Element Stiffness Matrix.	14: 6:44
++ Processing Global Stiffness Matrix.	14: 6:44
++ Processing Triangular Factorization.	14: 6:44
++ Calculating Joint Displacements.	14: 6:44
++ Processing Element Stiffness Matrix.	14: 6:44
++ Processing Global Stiffness Matrix.	14: 6:44
++ Processing Triangular Factorization.	14: 6:44
++ Calculating Joint Displacements.	14: 6:44
++ Calculating Member Forces.	14: 6:44

543. PERFORM ANALYSIS

++ Processing Element Stiffness Matrix.	14: 6:44
++ Processing Global Stiffness Matrix.	14: 6:44

CON ED L-17

-- PAGE NO. 14

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++ Processing Triangular Factorization.      14: 6:44
++ Calculating Joint Displacements.           14: 6:44
++ Processing Element Stiffness Matrix.      14: 6:44
++ Processing Global Stiffness Matrix.       14: 6:44
++ Processing Triangular Factorization.      14: 6:44
++ Calculating Joint Displacements.           14: 6:44
++ Calculating Member Forces.                14: 6:44

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544. PERFORM ANALYSIS

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++ Processing Element Stiffness Matrix.      14: 6:44
++ Processing Global Stiffness Matrix.       14: 6:44
++ Processing Triangular Factorization.      14: 6:44
++ Calculating Joint Displacements.           14: 6:44
++ Processing Element Stiffness Matrix.      14: 6:44
++ Processing Global Stiffness Matrix.       14: 6:44
++ Processing Triangular Factorization.      14: 6:44
++ Calculating Joint Displacements.           14: 6:44
++ Calculating Member Forces.                14: 6:44

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545. CHANGE

546. MEMBER TENSION

547. 1100 1200 3300 3400

548. MEMBER TENSION

549. 1101 1201 3301 3401

550. MEMBER TENSION

551. 2200 2300 4100 4400

552. MEMBER TENSION

553. 2201 2301 4101 4401

554. MEMBER TENSION

555. 1102 1202 3302 3402

556. MEMBER TENSION

557. 1103 1203 3303 3403

558. MEMBER TENSION

559. 2202 2302 4102 4402

560. MEMBER TENSION

561. 2203 2303 4103 4403

562. MEMBER TENSION

563. 52 53 56 57

564. MEMBER TENSION

565. 1112 1212 2212 2312 3312 3412 4112 4412

566. MEMBER TENSION

567. 11100 11200 12200 12300 13300 13400 14100 14400

568. *****

569. *EXISTING CONDITION

570. LOAD 4 / CONED STANDARD / DIRECTION A

571. SELFWEIGHT Y -1.397

572. * WIND ON TOWER

573. JOINT LOAD

574. 110 310 FZ 0.12

575. 108 208 308 408 FZ 0.21

576. 106 206 306 406 FZ 0.25

577. 104 204 304 404 FZ 0.32

578. 103 203 303 403 FZ 0.33

579. 102 202 302 402 FZ 0.39

580. 100 200 300 400 FZ 0.57

581. 112 212 312 412 FZ 0.34

582. *

CON ED L-17

-- PAGE NO. 15

583. *JOINT LOAD

584. 110 310 FZ 2.18 FY -2.74

585. 1000 1001 FZ 3.57 FY -8.39

586. 1003 FZ 5.98 FY -5.98

587. 1004 FZ -2.411 FY -2.411

588. PERFORM ANALYSIS

++ Processing Element Stiffness Matrix.	14: 6:45
++ Processing Global Stiffness Matrix.	14: 6:45
++ Processing Triangular Factorization.	14: 6:45
++ Calculating Joint Displacements.	14: 6:45
++ Processing Element Stiffness Matrix.	14: 6:45
++ Processing Global Stiffness Matrix.	14: 6:45
++ Processing Triangular Factorization.	14: 6:45
++ Calculating Joint Displacements.	14: 6:45
++ Calculating Member Forces.	14: 6:45

589. PERFORM ANALYSIS

++ Processing Element Stiffness Matrix.	14: 6:45
++ Processing Global Stiffness Matrix.	14: 6:45
++ Processing Triangular Factorization.	14: 6:45
++ Calculating Joint Displacements.	14: 6:45
++ Processing Element Stiffness Matrix.	14: 6:45
++ Processing Global Stiffness Matrix.	14: 6:45
++ Processing Triangular Factorization.	14: 6:45
++ Calculating Joint Displacements.	14: 6:45
++ Calculating Member Forces.	14: 6:45

590. PERFORM ANALYSIS

++ Processing Element Stiffness Matrix.	14: 6:45
++ Processing Global Stiffness Matrix.	14: 6:45
++ Processing Triangular Factorization.	14: 6:45
++ Calculating Joint Displacements.	14: 6:45
++ Processing Element Stiffness Matrix.	14: 6:46
++ Processing Global Stiffness Matrix.	14: 6:46
++ Processing Triangular Factorization.	14: 6:46
++ Calculating Joint Displacements.	14: 6:46
++ Calculating Member Forces.	14: 6:46

591. PERFORM ANALYSIS

++ Processing Element Stiffness Matrix.	14: 6:46
++ Processing Global Stiffness Matrix.	14: 6:46
++ Processing Triangular Factorization.	14: 6:46
++ Calculating Joint Displacements.	14: 6:46
++ Processing Element Stiffness Matrix.	14: 6:46
++ Processing Global Stiffness Matrix.	14: 6:46
++ Processing Triangular Factorization.	14: 6:46
++ Calculating Joint Displacements.	14: 6:46
++ Calculating Member Forces.	14: 6:46

592. PERFORM ANALYSIS

++ Processing Element Stiffness Matrix.	14: 6:46
++ Processing Global Stiffness Matrix.	14: 6:46
++ Processing Triangular Factorization.	14: 6:46
++ Calculating Joint Displacements.	14: 6:46
++ Processing Element Stiffness Matrix.	14: 6:46

CON ED L-17

-- PAGE NO. 16

++ Processing Global Stiffness Matrix. 14: 6:46
++ Processing Triangular Factorization. 14: 6:46
++ Calculating Joint Displacements. 14: 6:46
++ Calculating Member Forces. 14: 6:46

593. PERFORM ANALYSIS

++ Processing Element Stiffness Matrix. 14: 6:46
++ Processing Global Stiffness Matrix. 14: 6:46
++ Processing Triangular Factorization. 14: 6:46
++ Calculating Joint Displacements. 14: 6:46
++ Processing Element Stiffness Matrix. 14: 6:46
++ Processing Global Stiffness Matrix. 14: 6:46
++ Processing Triangular Factorization. 14: 6:46
++ Calculating Joint Displacements. 14: 6:46
++ Calculating Member Forces. 14: 6:46

594. CHANGE

595. MEMBER TENSION

596. 1100 1200 3300 3400

597. MEMBER TENSION

598. 1101 1201 3301 3401

599. MEMBER TENSION

600. 2200 2300 4100 4400

601. MEMBER TENSION

602. 2201 2301 4101 4401

603. MEMBER TENSION

604. 1102 1202 3302 3402

605. MEMBER TENSION

606. 1103 1203 3303 3403

607. MEMBER TENSION

608. 2202 2302 4102 4402

609. MEMBER TENSION

610. 2203 2303 4103 4403

611. MEMBER TENSION

612. 52 53 56 57

613. MEMBER TENSION

614. 1112 1212 2212 2312 3312 3412 4112 4412

615. MEMBER TENSION

616. 11100 11200 12200 12300 13300 13400 14100 14400

617. *

618. LOAD 5 /CON ED EMERGENCY ICE /DIRECTION A

619. SELFWEIGHT Y -1.1

620. * WIND ON TOWER

621. JOINT LOAD

622. 110 310 FZ 0.07

623. 108 208 308 408 FZ 0.13

624. 106 206 306 406 FZ 0.15

625. 104 204 304 404 FZ 0.19

626. 103 203 303 403 FZ 0.2

627. 102 202 302 402 FZ 0.24

628. 100 200 300 400 FZ 0.34

629. 112 212 312 412 FZ 0.21

630. *

631. *JOINT LOAD

632. 110 310 FZ 2.71 FY -4.28

633. 1000 1001 FZ 3.8 FY -9.91

634. 1003 FZ 6.857 FY -6.857

CON ED L-17

-- PAGE NO. 17

635. 1004 FZ -3.057 FY -3.057

636. *

637. PERFORM ANALYSIS

++ Processing Element Stiffness Matrix.	14: 6:46
++ Processing Global Stiffness Matrix.	14: 6:46
++ Processing Triangular Factorization.	14: 6:46
++ Calculating Joint Displacements.	14: 6:46
++ Processing Element Stiffness Matrix.	14: 6:46
++ Processing Global Stiffness Matrix.	14: 6:46
++ Processing Triangular Factorization.	14: 6:46
++ Calculating Joint Displacements.	14: 6:46
++ Calculating Member Forces.	14: 6:46

638. PERFORM ANALYSIS

++ Processing Element Stiffness Matrix.	14: 6:46
++ Processing Global Stiffness Matrix.	14: 6:47
++ Processing Triangular Factorization.	14: 6:47
++ Calculating Joint Displacements.	14: 6:47
++ Processing Element Stiffness Matrix.	14: 6:47
++ Processing Global Stiffness Matrix.	14: 6:47
++ Processing Triangular Factorization.	14: 6:47
++ Calculating Joint Displacements.	14: 6:47
++ Calculating Member Forces.	14: 6:47

639. PERFORM ANALYSIS

++ Processing Element Stiffness Matrix.	14: 6:47
++ Processing Global Stiffness Matrix.	14: 6:47
++ Processing Triangular Factorization.	14: 6:47
++ Calculating Joint Displacements.	14: 6:47
++ Processing Element Stiffness Matrix.	14: 6:47
++ Processing Global Stiffness Matrix.	14: 6:47
++ Processing Triangular Factorization.	14: 6:47
++ Calculating Joint Displacements.	14: 6:47
++ Calculating Member Forces.	14: 6:47

640. PERFORM ANALYSIS

++ Processing Element Stiffness Matrix.	14: 6:47
++ Processing Global Stiffness Matrix.	14: 6:47
++ Processing Triangular Factorization.	14: 6:47
++ Calculating Joint Displacements.	14: 6:47
++ Processing Element Stiffness Matrix.	14: 6:47
++ Processing Global Stiffness Matrix.	14: 6:47
++ Processing Triangular Factorization.	14: 6:47
++ Calculating Joint Displacements.	14: 6:47
++ Calculating Member Forces.	14: 6:47

641. PERFORM ANALYSIS

++ Processing Element Stiffness Matrix.	14: 6:47
++ Processing Global Stiffness Matrix.	14: 6:47
++ Processing Triangular Factorization.	14: 6:47
++ Calculating Joint Displacements.	14: 6:47
++ Processing Element Stiffness Matrix.	14: 6:47
++ Processing Global Stiffness Matrix.	14: 6:47
++ Processing Triangular Factorization.	14: 6:47
++ Calculating Joint Displacements.	14: 6:47

CON ED L-17

-- PAGE NO. 18

++ Calculating Member Forces. 14: 6:47

642. PERFORM ANALYSIS

++ Processing Element Stiffness Matrix. 14: 6:47
++ Processing Global Stiffness Matrix. 14: 6:47
++ Processing Triangular Factorization. 14: 6:47
++ Calculating Joint Displacements. 14: 6:47
++ Processing Element Stiffness Matrix. 14: 6:47
++ Processing Global Stiffness Matrix. 14: 6:47
++ Processing Triangular Factorization. 14: 6:47
++ Calculating Joint Displacements. 14: 6:47
++ Calculating Member Forces. 14: 6:47

643. CHANGE

644. MEMBER TENSION

645. 1100 1200 3300 3400

646. MEMBER TENSION

647. 1101 1201 3301 3401

648. MEMBER TENSION

649. 2200 2300 4100 4400

650. MEMBER TENSION

651. 2201 2301 4101 4401

652. MEMBER TENSION

653. 1102 1202 3302 3402

654. MEMBER TENSION

655. 1103 1203 3303 3403

656. MEMBER TENSION

657. 2202 2302 4102 4402

658. MEMBER TENSION

659. 2203 2303 4103 4403

660. MEMBER TENSION

661. 52 53 56 57

662. MEMBER TENSION

663. 1112 1212 2212 2312 3312 3412 4112 4412

664. MEMBER TENSION

665. 11100 11200 12200 12300 13300 13400 14100 14400

666. LOAD 6 /CON-ED HURRICANE / DIRECTION A

667. SELFWEIGHT Y -1.1

668. * WIND ON TOWER

669. JOINT LOAD

670. 110 310 FZ 0.17

671. 108 208 308 408 FZ 0.32

672. 106 206 306 406 FZ 0.38

673. 104 204 304 404 FZ 0.48

674. 103 203 303 403 FZ 0.5

675. 102 202 302 402 FZ 0.59

676. 100 200 300 400 FZ 0.86

677. 112 212 312 412 FZ 0.51

678. *

679. *

680. *JOINT LOAD

681. 110 310 FZ 1.98 FY -0.85

682. 1000 1001 FZ 6.37 FY -4.04

683. 1003 FZ 6.371 FY -4.041

684. 1004 FZ 0 FY 0

685. PERFORM ANALYSIS

CON ED L-17

-- PAGE NO. 19

++ Processing Element Stiffness Matrix.	14: 6:47
++ Processing Global Stiffness Matrix.	14: 6:47
++ Processing Triangular Factorization.	14: 6:47
++ Calculating Joint Displacements.	14: 6:47
++ Processing Element Stiffness Matrix.	14: 6:47
++ Processing Global Stiffness Matrix.	14: 6:47
++ Processing Triangular Factorization.	14: 6:47
++ Calculating Joint Displacements.	14: 6:48
++ Calculating Member Forces.	14: 6:48

686. PERFORM ANALYSIS

++ Processing Element Stiffness Matrix.	14: 6:48
++ Processing Global Stiffness Matrix.	14: 6:48
++ Processing Triangular Factorization.	14: 6:48
++ Calculating Joint Displacements.	14: 6:48
++ Processing Element Stiffness Matrix.	14: 6:48
++ Processing Global Stiffness Matrix.	14: 6:48
++ Processing Triangular Factorization.	14: 6:48
++ Calculating Joint Displacements.	14: 6:48
++ Calculating Member Forces.	14: 6:48

687. PERFORM ANALYSIS

++ Processing Element Stiffness Matrix.	14: 6:48
++ Processing Global Stiffness Matrix.	14: 6:48
++ Processing Triangular Factorization.	14: 6:48
++ Calculating Joint Displacements.	14: 6:48
++ Processing Element Stiffness Matrix.	14: 6:48
++ Processing Global Stiffness Matrix.	14: 6:48
++ Processing Triangular Factorization.	14: 6:48
++ Calculating Joint Displacements.	14: 6:48
++ Calculating Member Forces.	14: 6:48

688. PERFORM ANALYSIS

++ Processing Element Stiffness Matrix.	14: 6:48
++ Processing Global Stiffness Matrix.	14: 6:48
++ Processing Triangular Factorization.	14: 6:48
++ Calculating Joint Displacements.	14: 6:48
++ Processing Element Stiffness Matrix.	14: 6:48
++ Processing Global Stiffness Matrix.	14: 6:48
++ Processing Triangular Factorization.	14: 6:48
++ Calculating Joint Displacements.	14: 6:48
++ Calculating Member Forces.	14: 6:48

689. PERFORM ANALYSIS

++ Processing Element Stiffness Matrix.	14: 6:48
++ Processing Global Stiffness Matrix.	14: 6:48
++ Processing Triangular Factorization.	14: 6:48
++ Calculating Joint Displacements.	14: 6:48
++ Processing Element Stiffness Matrix.	14: 6:48
++ Processing Global Stiffness Matrix.	14: 6:48
++ Processing Triangular Factorization.	14: 6:48
++ Calculating Joint Displacements.	14: 6:48
++ Calculating Member Forces.	14: 6:48

690. PERFORM ANALYSIS

++ Processing Element Stiffness Matrix.	14: 6:48
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CON ED L-17

-- PAGE NO. 20

++ Processing Global Stiffness Matrix.	14: 6:48
++ Processing Triangular Factorization.	14: 6:48
++ Calculating Joint Displacements.	14: 6:48
++ Processing Element Stiffness Matrix.	14: 6:48
++ Processing Global Stiffness Matrix.	14: 6:48
++ Processing Triangular Factorization.	14: 6:48
++ Calculating Joint Displacements.	14: 6:48
++ Calculating Member Forces.	14: 6:48

691. CHANGE

692. LOAD LIST 1 TO 6

693. PRINT SUPPORT REACTION

CON ED L-17

-- PAGE NO. 21

SUPPORT REACTIONS -UNIT KIP FEET STRUCTURE TYPE = SPACE

JOINT	LOAD	FORCE-X	FORCE-Y	FORCE-Z	MOM-X	MOM-Y	MOM Z
112	1	-4.09	-21.56	-7.24	0.00	0.00	0.00
	2	-3.71	-19.24	-5.91	0.00	0.00	0.00
	3	-8.40	-42.61	-11.97	0.00	0.00	0.00
	4	-3.44	-18.26	-6.24	0.00	0.00	0.00
	5	-3.34	-17.34	-5.21	0.00	0.00	0.00
	6	-7.85	-39.85	-11.11	0.00	0.00	0.00
212	1	4.03	-21.30	-6.94	0.00	0.00	0.00
	2	3.65	-19.02	-5.63	0.00	0.00	0.00
	3	8.34	-42.41	-11.69	0.00	0.00	0.00
	4	3.45	-18.33	-6.25	0.00	0.00	0.00
	5	3.35	-17.41	-5.22	0.00	0.00	0.00
	6	7.86	-39.95	-11.13	0.00	0.00	0.00
312	1	-6.45	48.36	-6.79	0.00	0.00	0.00
	2	-6.31	47.29	-6.52	0.00	0.00	0.00
	3	-7.78	58.32	-8.30	0.00	0.00	0.00
	4	-5.88	44.14	-6.23	0.00	0.00	0.00
	5	-5.98	44.82	-6.19	0.00	0.00	0.00
	6	-7.36	55.12	-7.87	0.00	0.00	0.00
412	1	6.51	48.81	-6.86	0.00	0.00	0.00
	2	6.37	47.73	-6.58	0.00	0.00	0.00
	3	7.84	58.74	-8.36	0.00	0.00	0.00
	4	5.87	44.07	-6.22	0.00	0.00	0.00
	5	5.97	44.74	-6.18	0.00	0.00	0.00
	6	7.34	55.02	-7.86	0.00	0.00	0.00

***** END OF LATEST ANALYSIS RESULT *****

695. *****

696. *LEGS

697. LOAD LIST 1 TO 3

698. PRINT MAXFORCE ENVELOPE LIST 112 212 312 412

CON ED L-17

-- PAGE NO. 22

MEMBER FORCE ENVELOPE

ALL UNITS ARE KIP FEET

MAX AND MIN FORCE VALUES AMONGST ALL SECTION LOCATIONS

MEMB	FY/ FZ	DIST	LD	MZ/ MY	DIST	LD	FX	DIST	LD
112 MAX	0.02	0.00	1	0.12	17.30	1			
	0.00	0.00	3	0.04	17.30	3	14.79 T	0.00	2
MIN	-0.03	17.30	1	-0.06	5.77	1			
	0.00	17.30	1	0.00	0.00	1	33.96 T	17.30	3
212 MAX	0.02	0.00	1	0.12	17.30	1			
	0.00	0.00	1	0.00	0.00	2	14.89 T	0.00	2
MIN	-0.03	17.30	1	-0.06	5.77	1			
	0.00	17.30	3	-0.04	17.30	3	34.08 T	17.30	3
312 MAX	0.02	0.00	1	0.13	17.30	1			
	0.00	0.00	1	0.06	17.30	1	59.35 C	0.00	3
MIN	-0.03	17.30	1	-0.06	5.77	1			
	0.00	17.30	2	0.00	0.00	3	47.90 C	17.30	2
412 MAX	0.02	0.00	1	0.12	17.30	1			
	0.00	0.00	2	0.00	0.00	2	59.77 C	0.00	3
MIN	-0.03	17.30	1	-0.06	5.77	1			
	-0.01	17.30	1	-0.10	17.30	1	48.34 C	17.30	2

***** END OF FORCE ENVELOPE FROM INTERNAL STORAGE *****

699. LOAD LIST 1 TO 3

700. PRINT MAXFORCE ENVELOPE LIST 111 211 311 411

CON ED L-17

-- PAGE NO. 23

MEMBER FORCE ENVELOPE

ALL UNITS ARE KIP FEET

MAX AND MIN FORCE VALUES AMONGST ALL SECTION LOCATIONS

MEMB		FY/ FZ	DIST	LD	MZ/ MY	DIST	LD		FX	DIST	LD
111	MAX	0.02	0.00	3	0.02	8.14	1				
		-0.04	0.00	2	0.05	0.00	3	15.10 T	0.00	2	
	MIN	-0.02	8.14	1	-0.06	7.46	3				
		-0.06	8.14	3	-0.44	8.14	3	34.14 T	8.14	3	
211	MAX	0.02	0.00	3	0.02	8.14	1				
		0.06	0.00	3	0.42	8.14	3	15.19 T	0.00	2	
	MIN	-0.02	8.14	1	-0.06	7.46	3				
		0.03	8.14	2	-0.05	0.00	3	34.26 T	8.14	3	
311	MAX	-0.01	0.00	2	0.15	8.14	1				
		-0.01	0.00	2	0.05	0.00	1	59.04 C	0.00	3	
	MIN	-0.04	8.14	1	-0.06	0.00	3				
		-0.02	8.14	3	-0.15	8.14	3	47.71 C	8.14	2	
411	MAX	-0.01	0.00	2	0.15	8.14	1				
		0.03	0.00	3	0.19	8.14	3	59.46 C	0.00	3	
	MIN	-0.04	8.14	1	-0.06	0.00	3				
		0.02	8.14	2	-0.09	0.00	1	48.15 C	8.14	2	

***** END OF FORCE ENVELOPE FROM INTERNAL STORAGE *****

701. *

702. LOAD LIST 1 TO 3

703. PRINT MAXFORCE ENVELOPE LIST 100 200 300 400 101 201 301 401

CON ED L-17

-- PAGE NO. 24

MEMBER FORCE ENVELOPE

ALL UNITS ARE KIP FEET

MAX AND MIN FORCE VALUES AMONGST ALL SECTION LOCATIONS

MEMB		FY/ FZ	DIST DIST	LD LD	MZ/ MY	DIST DIST	LD LD	FX	DIST	LD
100	MAX	-0.06	0.00	2	0.44	7.12	3			
		0.26	0.00	3	1.36	7.12	3	15.24 T	0.00	2
	MIN	-0.11	7.12	3	-0.30	0.00	3			
		0.17	7.12	2	-0.46	0.00	3	34.23 T	7.12	3
200	MAX	-0.05	0.00	2	0.42	7.12	3			
		-0.15	0.00	2	0.44	0.00	3	15.39 T	0.00	2
	MIN	-0.11	7.12	3	-0.29	0.00	3			
		-0.24	7.12	3	-1.31	7.12	3	34.40 T	7.12	3
300	MAX	0.03	0.00	3	-0.05	0.00	2			
		-0.03	0.00	2	-0.12	0.00	2	53.57 C	0.00	3
	MIN	0.00	7.12	1	-0.19	7.12	3			
		-0.04	7.12	3	-0.51	7.12	3	44.38 C	7.12	1
400	MAX	0.03	0.00	3	-0.04	0.00	2			
		0.03	0.00	3	0.49	7.12	3	53.85 C	0.00	3
	MIN	0.00	7.12	1	-0.20	7.12	3			
		0.02	7.12	2	0.17	0.00	2	44.69 C	7.12	1
101	MAX	0.07	0.00	3	0.45	0.00	3			
		-0.15	0.00	2	1.41	0.00	3	15.35 T	0.00	2
	MIN	0.01	8.14	1	-0.01	8.14	3			
		-0.24	8.14	3	-0.54	8.14	3	34.35 T	8.14	3
201	MAX	0.06	0.00	3	0.43	0.00	3			
		0.23	0.00	3	0.51	8.14	3	15.50 T	0.00	2
	MIN	0.01	8.14	1	0.00	8.14	3			
		0.14	8.14	2	-1.35	0.00	3	34.52 T	8.14	3
301	MAX	-0.04	0.00	2	0.33	8.14	1			
		0.10	0.00	3	0.28	8.14	3	53.44 C	0.00	3
	MIN	-0.08	8.14	1	-0.22	0.00	3			
		0.06	8.14	2	-0.49	0.00	3	44.19 C	8.14	1
401	MAX	-0.05	0.00	2	0.35	8.14	1			
		-0.06	0.00	2	0.47	0.00	3	53.72 C	0.00	3
	MIN	-0.08	8.14	1	-0.24	0.00	3			
		-0.09	8.14	3	-0.25	8.14	3	44.50 C	8.14	1

CON ED L-17

-- PAGE NO. 25

***** END OF FORCE ENVELOPE FROM INTERNAL STORAGE *****

704. *

705. LOAD LIST 1 TO 3

706. PRINT MAXFORCE ENVELOPE LIST 102 202 302 402 103 203 303 403

CON ED L-17

-- PAGE NO. 26

MEMBER FORCE ENVELOPE

ALL UNITS ARE KIP FEET

MAX AND MIN FORCE VALUES AMONGST ALL SECTION LOCATIONS

MEMB		FY/ FZ	DIST DIST	LD LD	MZ/ MY	DIST DIST	LD LD	FX	DIST	LD
102	MAX	-0.01	0.00	2	0.28	14.25	1			
		0.05	0.00	3	0.20	14.25	3	12.62 T	0.00	2
	MIN	-0.05	14.25	1	-0.22	0.00	3			
		0.03	14.25	2	-0.46	0.00	3	29.25 T	14.25	3
202	MAX	-0.01	0.00	2	0.28	14.25	1			
		-0.03	0.00	2	0.44	0.00	3	12.91 T	0.00	2
	MIN	-0.05	14.25	1	-0.22	0.00	3			
		-0.04	14.25	3	-0.19	14.25	3	29.56 T	14.25	3
302	MAX	0.00	0.00	3	0.23	14.25	1			
		-0.02	0.00	2	0.22	0.00	3	47.60 C	0.00	3
	MIN	-0.04	14.25	1	-0.08	0.00	1			
		-0.02	14.25	3	-0.14	14.25	3	39.95 C	14.25	1
402	MAX	0.00	0.00	3	0.22	14.25	1			
		0.02	0.00	3	0.11	14.25	3	47.65 C	0.00	3
	MIN	-0.04	14.25	1	-0.07	0.00	1			
		0.01	14.25	2	-0.19	0.00	3	40.02 C	14.25	1
103	MAX	0.01	0.00	3	0.10	14.25	1			
		-0.01	0.00	2	0.21	0.00	3	9.25 T	0.00	2
	MIN	-0.03	14.25	1	-0.08	2.37	1			
		-0.02	14.25	3	-0.09	14.25	3	23.32 T	14.25	3
203	MAX	0.01	0.00	3	0.11	14.25	1			
		0.02	0.00	3	0.08	14.25	3	9.69 T	0.00	2
	MIN	-0.03	14.25	1	-0.08	2.37	1			
		0.01	14.25	2	-0.20	0.00	3	23.79 T	14.25	3
303	MAX	0.00	0.00	2	0.13	14.25	1			
		0.02	0.00	3	0.06	14.25	3	42.75 C	0.00	3
	MIN	-0.04	14.25	1	-0.15	0.00	1			
		0.01	14.25	2	-0.15	0.00	3	36.47 C	14.25	1
403	MAX	0.00	0.00	2	0.13	14.25	1			
		-0.01	0.00	2	0.13	0.00	3	42.63 C	0.00	3
	MIN	-0.04	14.25	1	-0.15	0.00	1			
		-0.01	14.25	3	-0.06	14.25	3	36.36 C	14.25	1

CON ED L-17

-- PAGE NO. 27

***** END OF FORCE ENVELOPE FROM INTERNAL STORAGE *****

707. *

708. LOAD LIST 1 TO 3

709. PRINT MAXFORCE ENVELOPE LIST 104 204 304 404 105 205 305 405 -

CON ED L-17

-- PAGE NO. 28

MEMBER FORCE ENVELOPE

ALL UNITS ARE KIP FEET

MAX AND MIN FORCE VALUES AMONGST ALL SECTION LOCATIONS

MEMB	FY/ FZ	DIST	LD	MZ/ MY	DIST	LD	FX	DIST	LD
710. 106 206 306 406 107 207 307 407									
104 MAX	0.02	0.00	3	0.04	9.00	1			
	0.01	0.00	1	0.05	9.00	1	3.71 T	0.00	2
MIN	-0.02	9.00	1	-0.01	6.00	3			
	0.00	9.00	3	-0.05	0.00	1	15.07 T	9.00	3
204 MAX	0.02	0.00	3	0.05	9.00	1			
	0.00	0.00	3	0.05	0.00	1	4.01 T	0.00	2
MIN	-0.02	9.00	1	-0.01	5.25	3			
	-0.01	9.00	1	-0.05	9.00	1	15.45 T	9.00	3
304 MAX	0.00	0.00	1	0.12	9.00	1			
	0.03	0.00	1	0.11	9.00	1	25.19 C	0.00	2
MIN	-0.03	9.00	1	-0.01	0.00	3			
	0.02	9.00	2	-0.13	0.00	1	23.77 C	9.00	1
404 MAX	0.00	0.00	1	0.12	9.00	1			
	-0.02	0.00	2	0.13	0.00	1	24.85 C	0.00	2
MIN	-0.03	9.00	1	-0.01	0.00	2			
	-0.03	9.00	1	-0.11	9.00	1	23.42 C	9.00	1
105 MAX	0.04	0.00	1	0.02	0.00	1			
	0.05	0.00	3	0.38	9.00	3	3.42 T	0.00	2
MIN	0.01	9.00	1	-0.20	9.00	2			
	0.04	9.00	2	-0.09	0.00	1	14.17 T	9.00	3
205 MAX	0.04	0.00	1	0.03	0.00	1			
	-0.04	0.00	2	0.09	0.00	1	3.82 T	0.00	2
MIN	0.01	9.00	3	-0.20	9.00	2			
	-0.05	9.00	3	-0.39	9.00	3	14.71 T	9.00	3
305 MAX	0.03	0.00	1	0.10	0.00	1			
	-0.01	0.00	1	-0.01	0.00	2	24.02 C	0.00	2
MIN	-0.01	9.00	3	0.00	7.50	1			
	-0.02	9.00	3	-0.20	9.00	3	22.59 C	9.00	1
405 MAX	0.03	0.00	1	0.10	0.00	1			
	0.02	0.00	3	0.21	9.00	3	23.55 C	0.00	2
MIN	-0.01	9.00	3	0.00	7.50	1			
	0.01	9.00	1	0.00	0.00	2	22.12 C	9.00	1

CON ED L-17

-- PAGE NO. 29

106	MAX	-0.04	0.00	1	0.20	5.83	3			
		-0.03	0.00	1	0.24	0.00	3	21.59 C	0.00	2
	MIN	-0.08	5.83	3	-0.19	0.00	3			
		-0.06	5.83	3	-0.09	5.83	3	17.39 C	5.83	3
206	MAX	-0.04	0.00	1	0.20	5.83	3			
		0.07	0.00	3	0.13	5.83	3	21.26 C	0.00	2
	MIN	-0.08	5.83	3	-0.20	0.00	3			
		0.04	5.83	1	-0.26	0.00	3	17.07 C	5.83	3
306	MAX	0.08	0.00	3	0.23	0.00	3			
		0.09	0.00	3	0.18	5.83	3	5.59 C	0.00	2
	MIN	0.03	5.83	2	-0.18	5.83	3			
		0.07	5.83	2	-0.33	0.00	3	5.55 T	5.83	3
406	MAX	0.08	0.00	3	0.23	0.00	3			
		-0.07	0.00	2	0.35	0.00	3	5.61 C	0.00	2
	MIN	0.03	5.83	2	-0.18	5.83	3			
		-0.09	5.83	3	-0.21	5.83	3	5.80 T	5.83	3
107	MAX	0.03	0.00	3	0.19	0.00	3			
		-0.02	0.00	3	-0.04	0.00	2	21.18 C	0.00	2
	MIN	0.00	5.83	1	0.07	5.83	3			
		-0.03	5.83	2	-0.24	5.83	2	17.02 C	5.83	3
207	MAX	0.03	0.00	3	0.20	0.00	3			
		0.02	0.00	2	0.19	5.83	2	20.67 C	0.00	2
	MIN	0.00	5.83	1	0.06	5.83	3			
		0.00	5.83	3	0.09	0.00	1	16.51 C	5.83	3
307	MAX	-0.03	0.00	1	0.12	5.83	2			
		-0.02	0.00	3	0.16	0.00	3	5.51 C	0.00	2
	MIN	-0.05	5.83	3	-0.17	0.00	3			
		-0.03	5.83	2	-0.05	5.83	2	5.46 T	5.83	3
407	MAX	-0.03	0.00	1	0.11	5.83	2			
		0.04	0.00	2	0.06	5.83	2	5.46 C	0.00	2
	MIN	-0.05	5.83	3	-0.17	0.00	3			
		0.02	5.83	3	-0.18	0.00	3	5.72 T	5.83	3

***** END OF FORCE ENVELOPE FROM INTERNAL STORAGE *****

711. *

712. LOAD LIST 1 TO 3

713. PRINT MAXFORCE ENVELOPE LIST 108 208 308 408 109 209 309 409

CON ED L-17

-- PAGE NO. 30

MEMBER FORCE ENVELOPE

ALL UNITS ARE KIP FEET

MAX AND MIN FORCE VALUES AMONGST ALL SECTION LOCATIONS

MEMB		FY/ FZ	DIST DIST	LD LD	MZ/ MY	DIST DIST	LD LD		FX	DIST	LD
108	MAX	0.07	0.00	2	0.18	0.00	2				
		0.06	0.00	2	0.08	5.25	2	12.16 C	0.00	2	
	MIN	0.05	5.25	3	-0.17	5.25	2				
		0.05	5.25	3	-0.24	0.00	2	8.28 C	5.25	3	
208	MAX	0.07	0.00	2	0.16	0.00	2				
		-0.05	0.00	1	0.20	0.00	2	12.00 C	0.00	2	
	MIN	0.05	5.25	1	-0.16	5.25	2				
		-0.05	5.25	2	-0.08	5.25	3	7.86 C	5.25	3	
308	MAX	0.00	0.00	2	0.08	5.25	3				
		0.01	0.00	2	0.04	0.00	3	6.45 C	0.00	2	
	MIN	-0.04	5.25	3	-0.11	0.00	3				
		-0.01	5.25	3	-0.05	0.00	2	0.92 T	5.25	3	
408	MAX	0.01	0.00	2	0.05	5.25	3				
		0.00	0.00	3	0.09	0.00	2	5.91 C	0.00	2	
	MIN	-0.03	5.25	3	-0.09	0.00	3				
		-0.02	5.25	2	-0.04	5.25	2	1.34 T	5.25	3	
109	MAX	0.02	0.00	3	0.01	0.00	3				
		0.00	0.00	3	0.14	0.00	2	1.95 C	0.00	2	
	MIN	-0.02	5.82	1	-0.02	2.91	1				
		-0.02	5.82	2	0.05	5.82	2	0.04 C	5.82	3	
209	MAX	0.02	0.00	1	0.01	0.00	3				
		0.00	0.00	2	-0.05	0.00	1	2.23 C	0.00	2	
	MIN	-0.02	5.82	1	-0.02	2.91	1				
		-0.01	5.82	1	-0.10	5.82	1	0.31 T	5.82	3	
309	MAX	0.02	0.00	1	0.01	5.82	3				
		0.03	0.00	3	0.12	5.82	1	4.72 C	0.00	2	
	MIN	-0.02	5.82	1	-0.02	2.91	1				
		0.02	5.82	2	-0.10	0.00	3	1.86 C	5.82	3	
409	MAX	0.01	0.00	1	0.03	5.82	3				
		0.01	0.00	2	0.01	0.00	3	3.52 C	0.00	2	
	MIN	-0.02	5.82	1	-0.02	1.94	1				
		0.00	5.82	3	-0.07	0.00	2	1.00 C	5.82	3	

***** END OF FORCE ENVELOPE FROM INTERNAL STORAGE *****

714. *

715. *DIAGONALS (BOTTOM FACE)

716. *

717. LOAD LIST 1 TO 3

718. PRINT MAXFORCE ENVELOPE LIST 1112 1212 2212 2312 3312 3412 4412 4112

CON ED L-17

-- PAGE NO. 32

MEMBER FORCE ENVELOPE

ALL UNITS ARE KIP FEET

MAX AND MIN FORCE VALUES AMONGST ALL SECTION LOCATIONS

MEMB		FY/ FZ	DIST DIST	LD LD	MZ/ MY	DIST DIST	LD LD	FX	DIST	LD
1112	MAX	0.04	0.00	1	0.00	0.00	1			
		0.00	0.00	1	0.00	0.00	1	1.82 T	0.00	2
	MIN	-0.04	21.54	1	0.00	21.54	3			
		0.00	21.54	3	0.00	21.54	3	4.44 T	21.54	3
1212	MAX	0.04	0.00	1	0.00	0.00	1			
		0.00	0.00	1	0.00	0.00	1	1.77 T	0.00	2
	MIN	-0.04	21.54	1	0.00	21.54	3			
		0.00	21.54	3	0.00	21.54	3	4.39 T	21.54	3
2212	MAX	0.04	0.00	1	0.00	0.00	1			
		0.00	0.00	1	0.00	0.00	1	4.60 T	0.00	2
	MIN	-0.04	21.54	1	0.00	21.54	3			
		0.00	21.54	3	0.00	21.54	3	8.94 T	21.54	3
2312	MAX	0.00	0.00	1	0.00	0.00	1			
		0.00	0.00	1	0.00	0.00	1	0.00	0.00	1
	MIN	0.00	21.54	3	0.00	21.54	3			
		0.00	21.54	3	0.00	21.54	3	0.00	21.54	3
3312	MAX	0.00	0.00	1	0.00	0.00	1			
		0.00	0.00	1	0.00	0.00	1	0.00	0.00	1
	MIN	0.00	21.54	3	0.00	21.54	3			
		0.00	21.54	3	0.00	21.54	3	0.00	21.54	3
3412	MAX	0.00	0.00	1	0.00	0.00	1			
		0.00	0.00	1	0.00	0.00	1	0.00	0.00	1
	MIN	0.00	21.54	3	0.00	21.54	3			
		0.00	21.54	3	0.00	21.54	3	0.00	21.54	3
4412	MAX	0.00	0.00	1	0.00	0.00	1			
		0.00	0.00	1	0.00	0.00	1	0.00	0.00	1
	MIN	0.00	21.54	3	0.00	21.54	3			
		0.00	21.54	3	0.00	21.54	3	0.00	21.54	3
4112	MAX	0.04	0.00	1	0.00	0.00	1			
		0.00	0.00	1	0.00	0.00	1	5.00 T	0.00	2
	MIN	-0.04	21.54	1	0.00	21.54	3			
		0.00	21.54	3	0.00	21.54	3	9.34 T	21.54	3

CON ED L-17

-- PAGE NO. 33

***** END OF FORCE ENVELOPE FROM INTERNAL STORAGE *****

719. *

720. LOAD LIST 1 TO 3

721. PRINT MAXFORCE ENVELOPE LIST 1111 1211 2211 2311 3311 3411 4411 4111

CON ED L-17

-- PAGE NO. 34

MEMBER FORCE ENVELOPE

ALL UNITS ARE KIP FEET

MAX AND MIN FORCE VALUES AMONGST ALL SECTION LOCATIONS

MEMB	FY/ FZ	DIST	LD	MZ/ MY	DIST	LD	FX	DIST	LD
1111 MAX	0.05	0.00	1	0.11	0.00	1			
	-0.01	0.00	2	0.04	0.00	1	0.03 C	13.23	1
MIN	-0.05	13.23	1	-0.06	6.61	1			
	-0.01	13.23	1	-0.11	13.23	1	0.00 C	0.00	3
1211 MAX	0.05	0.00	1	0.11	0.00	1			
	0.01	0.00	1	0.11	13.23	1	0.03 C	13.23	1
MIN	-0.05	13.23	1	-0.06	6.61	1			
	0.01	13.23	2	-0.04	0.00	1	0.00 C	0.00	3
2211 MAX	0.05	0.00	1	0.10	0.00	1			
	-0.01	0.00	2	0.04	0.00	1	0.10 C	13.23	3
MIN	-0.05	13.23	1	-0.06	6.61	1			
	-0.01	13.23	1	-0.06	13.23	1	0.06 C	0.00	2
2311 MAX	0.05	0.00	1	0.14	0.00	1			
	0.01	0.00	1	0.05	13.23	1	0.06 C	13.23	1
MIN	-0.04	13.23	1	-0.05	7.72	1			
	0.00	13.23	3	-0.03	0.00	1	0.03 C	0.00	2
3311 MAX	0.05	0.00	1	0.13	0.00	1			
	-0.01	0.00	3	0.03	0.00	1	0.03 C	13.23	1
MIN	-0.05	13.23	1	-0.05	6.61	1			
	-0.01	13.23	1	-0.09	13.23	1	0.00 T	0.00	3
3411 MAX	0.05	0.00	1	0.13	0.00	1			
	0.01	0.00	1	0.09	13.23	1	0.02 C	13.23	1
MIN	-0.05	13.23	1	-0.06	6.61	1			
	0.01	13.23	3	-0.03	0.00	1	0.01 T	0.00	3
4411 MAX	0.05	0.00	1	0.14	0.00	1			
	0.00	0.00	3	0.03	0.00	1	0.07 C	13.23	1
MIN	-0.04	13.23	1	-0.05	7.72	1			
	-0.01	13.23	1	-0.05	13.23	1	0.04 C	0.00	2
4111 MAX	0.05	0.00	1	0.10	0.00	1			
	0.01	0.00	1	0.06	13.23	1	0.10 C	13.23	3
MIN	-0.05	13.23	1	-0.06	6.61	1			
	0.01	13.23	2	-0.04	0.00	1	0.07 C	0.00	2

CON ED L-17

-- PAGE NO. 35

***** END OF FORCE ENVELOPE FROM INTERNAL STORAGE *****

722. *

723. LOAD LIST 1 TO 3

724. PRINT MAXFORCE ENVELOPE LIST 11100 11200 12200 12300 13300 13400 -

CON ED L-17

-- PAGE NO. 36

MEMBER FORCE ENVELOPE

ALL UNITS ARE KIP FEET

MAX AND MIN FORCE VALUES AMONGST ALL SECTION LOCATIONS

MEMB		FY/ FZ	DIST	LD	MZ/ MY	DIST	LD		FX	DIST	LD
725. 14400	14100										
11100	MAX	0.04	0.00	1	0.00	0.00	1				
		0.00	0.00	1	0.00	0.00	1	2.44 T	15.69	2	
	MIN	-0.04	15.69	1	0.00	15.69	3				
		0.00	15.69	3	0.00	15.69	3	5.28 T	0.00	3	
11200	MAX	0.04	0.00	1	0.00	0.00	1				
		0.00	0.00	1	0.00	0.00	1	2.43 T	15.69	2	
	MIN	-0.04	15.69	1	0.00	15.69	3				
		0.00	15.69	3	0.00	15.69	3	5.28 T	0.00	3	
12200	MAX	0.04	0.00	1	0.00	0.00	1				
		0.00	0.00	1	0.00	0.00	1	0.75 T	15.69	2	
	MIN	-0.04	15.69	1	0.00	15.69	3				
		0.00	15.69	3	0.00	15.69	3	1.19 T	0.00	3	
12300	MAX	0.04	0.00	1	0.00	0.00	1				
		0.00	0.00	1	0.00	0.00	1	5.02 T	15.69	2	
	MIN	-0.04	15.69	1	0.00	15.69	3				
		0.00	15.69	3	0.00	15.69	3	9.36 T	0.00	3	
13300	MAX	0.04	0.00	1	0.00	0.00	1				
		0.00	0.00	1	0.00	0.00	1	0.39 T	15.69	3	
	MIN	-0.04	15.69	1	0.00	15.69	3				
		0.00	15.69	3	0.00	15.69	3	0.58 T	0.00	1	
13400	MAX	0.04	0.00	1	0.00	0.00	1				
		0.00	0.00	1	0.00	0.00	1	0.35 T	15.69	3	
	MIN	-0.04	15.69	1	0.00	15.69	3				
		0.00	15.69	3	0.00	15.69	3	0.52 T	0.00	1	
14400	MAX	0.04	0.00	1	0.00	0.00	1				
		0.00	0.00	1	0.00	0.00	1	5.39 T	15.69	2	
	MIN	-0.04	15.69	1	0.00	15.69	3				
		0.00	15.69	3	0.00	15.69	3	9.73 T	0.00	3	
14100	MAX	0.04	0.00	1	0.00	0.00	1				
		0.00	0.00	1	0.00	0.00	1	0.82 T	15.69	2	
	MIN	-0.04	15.69	1	0.00	15.69	3				
		0.00	15.69	3	0.00	15.69	3	1.26 T	0.00	3	

CON ED L-17

-- PAGE NO. 37

***** END OF FORCE ENVELOPE FROM INTERNAL STORAGE *****

726. *

727. LOAD LIST 1 TO 3

728. PRINT MAXFORCE ENVELOPE LIST 1100 1200 3300 3400 2200 2300 4100 -

CON ED L-17

-- PAGE NO. 38

MEMBER FORCE ENVELOPE

ALL UNITS ARE KIP FEET

MAX AND MIN FORCE VALUES AMONGST ALL SECTION LOCATIONS

MEMB	FY/ FZ	DIST	LD	MZ/ MY	DIST	LD	FX	DIST	LD
729. 4400	1101 1201 3301 3401 2201 2301 4101 4401								
1100 MAX	0.03	0.00	1	0.00	0.00	1			
	0.00	0.00	1	0.00	0.00	1	0.63 T	0.00	2
MIN	-0.03	13.02	1	0.00	13.02	3			
	0.00	13.02	3	0.00	13.02	3	1.58 T	13.02	3
1200 MAX	0.03	0.00	1	0.00	0.00	1			
	0.00	0.00	1	0.00	0.00	1	0.61 T	0.00	2
MIN	-0.03	13.02	1	0.00	13.02	3			
	0.00	13.02	3	0.00	13.02	3	1.57 T	13.02	3
3300 MAX	0.00	0.00	1	0.00	0.00	1			
	0.00	0.00	1	0.00	0.00	1	0.00	0.00	1
MIN	0.00	13.02	3	0.00	13.02	3			
	0.00	13.02	3	0.00	13.02	3	0.00	13.02	3
3400 MAX	0.00	0.00	1	0.00	0.00	1			
	0.00	0.00	1	0.00	0.00	1	0.00	0.00	1
MIN	0.00	13.02	3	0.00	13.02	3			
	0.00	13.02	3	0.00	13.02	3	0.00	13.02	3
2200 MAX	0.03	0.00	1	0.00	0.00	1			
	0.00	0.00	1	0.00	0.00	1	5.21 T	0.00	2
MIN	-0.03	13.02	1	0.00	13.02	3			
	0.00	13.02	3	0.00	13.02	3	9.65 T	13.02	3
2300 MAX	0.03	0.00	1	0.00	0.00	1			
	0.00	0.00	1	0.00	0.00	1	1.67 T	0.00	2
MIN	-0.03	13.02	1	0.00	13.02	3			
	0.00	13.02	3	0.00	13.02	3	3.33 T	13.02	3
4100 MAX	0.03	0.00	1	0.00	0.00	1			
	0.00	0.00	1	0.00	0.00	1	5.64 T	0.00	2
MIN	-0.03	13.02	1	0.00	13.02	3			
	0.00	13.02	3	0.00	13.02	3	10.09 T	13.02	3
4400 MAX	0.03	0.00	1	0.00	0.00	1			
	0.00	0.00	1	0.00	0.00	1	1.84 T	0.00	2
MIN	-0.03	13.02	1	0.00	13.02	3			
	0.00	13.02	3	0.00	13.02	3	3.50 T	13.02	3

CON ED L-17

-- PAGE NO. 39

1101	MAX	0.03	0.00	1	0.00	0.00	1			
		0.00	0.00	1	0.00	0.00	1	0.45 T	0.00	2
	MIN	-0.03	14.20	1	0.00	14.20	3			
		0.00	14.20	3	0.00	14.20	3	0.98 T	14.20	3
1201	MAX	0.03	0.00	1	0.00	0.00	1			
		0.00	0.00	1	0.00	0.00	1	0.49 T	0.00	2
	MIN	-0.03	14.20	1	0.00	14.20	3			
		0.00	14.20	3	0.00	14.20	3	1.02 T	14.20	3
3301	MAX	0.03	0.00	1	0.00	0.00	1			
		0.00	0.00	1	0.00	0.00	1	0.13 T	0.00	2
	MIN	-0.03	14.20	1	0.00	14.20	3			
		0.00	14.20	3	0.00	14.20	3	0.22 T	14.20	1
3401	MAX	0.03	0.00	1	0.00	0.00	1			
		0.00	0.00	1	0.00	0.00	1	0.12 T	0.00	2
	MIN	-0.03	14.20	1	0.00	14.20	3			
		0.00	14.20	3	0.00	14.20	3	0.20 T	14.20	1
2201	MAX	0.00	0.00	1	0.00	0.00	1			
		0.00	0.00	1	0.00	0.00	1	0.00	0.00	1
	MIN	0.00	14.20	3	0.00	14.20	3			
		0.00	14.20	3	0.00	14.20	3	0.00	14.20	3
2301	MAX	0.03	0.00	1	0.00	0.00	1			
		0.00	0.00	1	0.00	0.00	1	4.07 T	0.00	2
	MIN	-0.03	14.20	1	0.00	14.20	3			
		0.00	14.20	3	0.00	14.20	3	7.46 T	14.20	3
4101	MAX	0.00	0.00	1	0.00	0.00	1			
		0.00	0.00	1	0.00	0.00	1	0.00	0.00	1
	MIN	0.00	14.20	3	0.00	14.20	3			
		0.00	14.20	3	0.00	14.20	3	0.00	14.20	3
4401	MAX	0.03	0.00	1	0.00	0.00	1			
		0.00	0.00	1	0.00	0.00	1	4.41 T	0.00	2
	MIN	-0.03	14.20	1	0.00	14.20	3			
		0.00	14.20	3	0.00	14.20	3	7.80 T	14.20	3

***** END OF FORCE ENVELOPE FROM INTERNAL STORAGE *****

730. *

731. LOAD LIST 1 TO 3

732. PRINT MAXFORCE ENVELOPE LIST 1102 1202 3302 3402 1103 1203 3303 3403 -

CON ED L-17

-- PAGE NO. 40

MEMBER FORCE ENVELOPE

ALL UNITS ARE KIP FEET

MAX AND MIN FORCE VALUES AMONGST ALL SECTION LOCATIONS

MEMB		FY/ FZ	DIST	LD	MZ/ MY	DIST	LD				
733.	2202	2302	4102	4402	-						
734.	2203	2303	4103	4403							
1102	MAX	0.04	0.00	1	0.00	0.00	1				
		0.00	0.00	1	0.00	0.00	1	1.13 T	0.00	2	
	MIN	-0.04	22.97	1	0.00	22.97	3				
		0.00	22.97	3	0.00	22.97	3	2.62 T	22.97	3	
1202	MAX	0.04	0.00	1	0.00	0.00	1				
		0.00	0.00	1	0.00	0.00	1	1.10 T	0.00	2	
	MIN	-0.04	22.97	1	0.00	22.97	3				
		0.00	22.97	3	0.00	22.97	3	2.60 T	22.97	3	
3302	MAX	0.00	0.00	1	0.00	0.00	1				
		0.00	0.00	1	0.00	0.00	1	0.00	0.00	1	
	MIN	0.00	22.97	3	0.00	22.97	3				
		0.00	22.97	3	0.00	22.97	3	0.00	22.97	3	
3402	MAX	0.00	0.00	1	0.00	0.00	1				
		0.00	0.00	1	0.00	0.00	1	0.00	0.00	1	
	MIN	0.00	22.97	3	0.00	22.97	3				
		0.00	22.97	3	0.00	22.97	3	0.00	22.97	3	
1103	MAX	0.03	0.00	1	0.00	0.00	1				
		0.00	0.00	1	0.00	0.00	1	1.15 T	0.00	2	
	MIN	-0.03	20.15	1	0.00	20.15	3				
		0.00	20.15	3	0.00	20.15	3	2.93 T	20.15	3	
1203	MAX	0.03	0.00	1	0.00	0.00	1				
		0.00	0.00	1	0.00	0.00	1	1.12 T	0.00	2	
	MIN	-0.03	20.15	1	0.00	20.15	3				
		0.00	20.15	3	0.00	20.15	3	2.89 T	20.15	3	
3303	MAX	0.00	0.00	1	0.00	0.00	1				
		0.00	0.00	1	0.00	0.00	1	0.00	0.00	1	
	MIN	0.00	20.15	3	0.00	20.15	3				
		0.00	20.15	3	0.00	20.15	3	0.00	20.15	3	
3403	MAX	0.00	0.00	1	0.00	0.00	1				
		0.00	0.00	1	0.00	0.00	1	0.00	0.00	1	
	MIN	0.00	20.15	3	0.00	20.15	3				
		0.00	20.15	3	0.00	20.15	3	0.00	20.15	3	

CON ED L-17

-- PAGE NO. 41

2202	MAX	0.04	0.00	1	0.00	0.00	1			
		0.00	0.00	1	0.00	0.00	1	4.15 T	0.00	2
	MIN	-0.04	22.97	1	0.00	22.97	3			
		0.00	22.97	3	0.00	22.97	3	7.19 T	22.97	3
2302	MAX	0.00	0.00	1	0.00	0.00	1			
		0.00	0.00	1	0.00	0.00	1	0.00	0.00	1
	MIN	0.00	22.97	3	0.00	22.97	3			
		0.00	22.97	3	0.00	22.97	3	0.00	22.97	3
4102	MAX	0.04	0.00	1	0.00	0.00	1			
		0.00	0.00	1	0.00	0.00	1	4.43 T	0.00	2
	MIN	-0.04	22.97	1	0.00	22.97	3			
		0.00	22.97	3	0.00	22.97	3	7.46 T	22.97	3
4402	MAX	0.00	0.00	1	0.00	0.00	1			
		0.00	0.00	1	0.00	0.00	1	0.00	0.00	1
	MIN	0.00	22.97	3	0.00	22.97	3			
		0.00	22.97	3	0.00	22.97	3	0.00	22.97	3
2203	MAX	0.03	0.00	1	0.00	0.00	1			
		0.00	0.00	1	0.00	0.00	1	4.96 T	0.00	2
	MIN	-0.03	20.15	1	0.00	20.15	3			
		0.00	20.15	3	0.00	20.15	3	8.17 T	20.15	3
2303	MAX	0.00	0.00	1	0.00	0.00	1			
		0.00	0.00	1	0.00	0.00	1	0.00	0.00	1
	MIN	0.00	20.15	3	0.00	20.15	3			
		0.00	20.15	3	0.00	20.15	3	0.00	20.15	3
4103	MAX	0.03	0.00	1	0.00	0.00	1			
		0.00	0.00	1	0.00	0.00	1	5.22 T	0.00	2
	MIN	-0.03	20.15	1	0.00	20.15	3			
		0.00	20.15	3	0.00	20.15	3	8.44 T	20.15	3
4403	MAX	0.00	0.00	1	0.00	0.00	1			
		0.00	0.00	1	0.00	0.00	1	0.00	0.00	1
	MIN	0.00	20.15	3	0.00	20.15	3			
		0.00	20.15	3	0.00	20.15	3	0.00	20.15	3

***** END OF FORCE ENVELOPE FROM INTERNAL STORAGE *****

735. *

736. *DIAGONALS FACE 100-200 _400-300

737. *

738. LOAD LIST 1 TO 3

739. PRINT MAXFORCE ENVELOPE LIST 1104 1204 3304 3404 1105 1205 3305 3405

CON ED L-17

-- PAGE NO. 42

MEMBER FORCE ENVELOPE

ALL UNITS ARE KIP FEET

MAX AND MIN FORCE VALUES AMONGST ALL SECTION LOCATIONS

MEMB		FY/ FZ	DIST DIST	LD LD	MZ/ MY	DIST DIST	LD LD	FX	DIST	LD
1104	MAX	0.03	0.00	1	0.06	0.00	1			
		0.00	0.00	1	0.03	14.45	1	0.23 C	0.00	3
	MIN	-0.02	14.45	1	-0.03	7.23	1			
		0.00	14.45	2	-0.02	0.00	1	0.13 C	14.45	1
1204	MAX	0.03	0.00	1	0.06	0.00	1			
		0.00	0.00	2	0.02	0.00	1	0.33 C	0.00	3
	MIN	-0.02	14.45	1	-0.03	7.23	1			
		0.00	14.45	1	-0.02	14.45	1	0.18 C	14.45	1
3304	MAX	0.03	0.00	1	0.07	0.00	1			
		0.00	0.00	1	0.02	14.45	1	0.01 T	0.00	2
	MIN	-0.02	14.45	1	-0.03	7.23	1			
		0.00	14.45	2	-0.01	0.00	1	0.10 T	14.45	3
3404	MAX	0.03	0.00	1	0.07	0.00	1			
		0.00	0.00	2	0.01	0.00	1	0.06 C	0.00	2
	MIN	-0.02	14.45	1	-0.03	7.23	1			
		0.00	14.45	1	-0.02	14.45	1	0.01 T	14.45	3
1105	MAX	0.02	0.00	1	0.04	12.74	1			
		0.00	0.00	3	0.06	12.74	3	0.49 T	0.00	2
	MIN	-0.02	12.74	1	-0.03	6.37	1			
		0.00	12.74	2	0.01	0.00	3	1.28 T	12.74	3
1205	MAX	0.02	0.00	1	0.04	12.74	1			
		0.00	0.00	2	-0.01	0.00	3	0.40 T	0.00	2
	MIN	-0.02	12.74	1	-0.03	6.37	1			
		0.00	12.74	3	-0.06	12.74	3	1.13 T	12.74	3
3305	MAX	0.02	0.00	1	0.05	0.00	1			
		0.00	0.00	1	0.01	0.00	1	1.53 C	0.00	3
	MIN	-0.02	12.74	1	-0.02	6.37	1			
		0.00	12.74	3	-0.01	12.74	3	1.35 C	12.74	1
3405	MAX	0.02	0.00	1	0.05	0.00	1			
		0.00	0.00	3	0.01	12.74	3	1.67 C	0.00	3
	MIN	-0.02	12.74	1	-0.02	6.37	1			
		0.00	12.74	1	-0.01	0.00	1	1.46 C	12.74	1

CON ED L-17

-- PAGE NO. 43

***** END OF FORCE ENVELOPE FROM INTERNAL STORAGE *****

740. *

741. LOAD LIST 1 TO 3

742. PRINT MAXFORCE ENVELOPE LIST 1106 1206 3306 3406 1107 1207 3307 3407

CON ED L-17

-- PAGE NO. 44

MEMBER FORCE ENVELOPE

ALL UNITS ARE KIP FEET

MAX AND MIN FORCE VALUES AMONGST ALL SECTION LOCATIONS

MEMB		FY/ FZ	DIST DIST	LD LD	MZ/ MY	DIST DIST	LD LD	FX	DIST	LD
1106	MAX	0.01	0.00	1	0.02	0.00	1			
		0.00	0.00	1	0.01	0.00	3	0.11 T	0.00	1
	MIN	-0.01	9.24	1	-0.01	5.39	1			
		0.00	9.24	3	0.00	9.24	3	0.17 T	9.24	3
1206	MAX	0.01	0.00	1	0.02	0.00	1			
		0.00	0.00	3	0.00	9.24	3	0.20 T	0.00	1
	MIN	-0.01	9.24	1	-0.01	5.39	1			
		0.00	9.24	2	0.00	0.00	1	0.24 T	9.24	3
3306	MAX	0.01	0.00	1	0.01	9.24	1			
		0.00	0.00	3	0.00	9.24	3	0.13 C	0.00	3
	MIN	-0.01	9.24	1	-0.01	4.62	1			
		0.00	9.24	1	0.00	0.00	3	0.10 C	9.24	2
3406	MAX	0.01	0.00	1	0.01	9.24	3			
		0.00	0.00	1	0.00	0.00	3	0.21 C	0.00	3
	MIN	-0.01	9.24	1	-0.01	4.62	1			
		0.00	9.24	3	0.00	9.24	1	0.09 C	9.24	2
1107	MAX	0.01	0.00	1	0.01	0.00	1			
		0.00	0.00	3	0.00	0.00	1	0.38 C	0.00	2
	MIN	0.00	8.14	1	0.00	4.75	1			
		0.00	8.14	1	-0.01	8.14	2	0.34 C	8.14	1
1207	MAX	0.01	0.00	1	0.01	0.00	1			
		0.00	0.00	1	0.01	8.14	2	0.75 C	0.00	2
	MIN	0.00	8.14	1	0.00	4.75	1			
		0.00	8.14	3	0.00	0.00	1	0.67 C	8.14	1
3307	MAX	0.01	0.00	1	0.01	0.00	1			
		0.00	0.00	3	0.01	0.00	1	0.00 T	0.00	2
	MIN	-0.01	8.14	1	0.00	4.07	1			
		0.00	8.14	1	0.00	8.14	2	0.20 T	8.14	3
3407	MAX	0.01	0.00	1	0.01	0.00	1			
		0.00	0.00	1	0.00	8.14	2	0.09 C	0.00	2
	MIN	-0.01	8.14	1	0.00	4.07	1			
		0.00	8.14	3	-0.01	0.00	1	0.27 T	8.14	3

CON ED L-17

-- PAGE NO. 45

***** END OF FORCE ENVELOPE FROM INTERNAL STORAGE *****

743. *

744. LOAD LIST 1 TO 3

745. PRINT MAXFORCE ENVELOPE LIST 1108 1208 3308 3408

CON ED L-17

-- PAGE NO. 46

MEMBER FORCE ENVELOPE

ALL UNITS ARE KIP FEET

MAX AND MIN FORCE VALUES AMONGST ALL SECTION LOCATIONS

MEMB		FY/ FZ	DIST	LD	MZ/ MY	DIST	LD	FX	DIST	LD
1108	MAX	0.01	0.00	1	0.01	0.00	1			
		0.01	0.00	3	0.02	7.25	3	2.12 C	0.00	2
	MIN	-0.01	7.25	1	-0.01	3.63	1			
		0.01	7.25	1	-0.02	0.00	3	1.34 C	7.25	3
1208	MAX	0.01	0.00	1	0.01	0.00	1			
		0.00	0.00	3	0.02	0.00	2	1.85 C	0.00	2
	MIN	-0.01	7.25	1	-0.01	3.63	1			
		-0.01	7.25	2	-0.02	7.25	2	1.49 C	7.25	3
3308	MAX	0.01	0.00	1	0.01	7.25	1			
		0.00	0.00	2	0.01	0.00	3	0.43 C	0.00	2
	MIN	-0.01	7.25	1	-0.01	3.63	1			
		0.00	7.25	3	0.00	7.25	3	0.41 T	7.25	3
3408	MAX	0.01	0.00	1	0.01	7.25	1			
		0.00	0.00	3	0.01	7.25	3	1.24 C	0.00	2
	MIN	-0.01	7.25	1	-0.01	3.63	1			
		0.00	7.25	1	-0.02	0.00	3	0.16 C	7.25	3

***** END OF FORCE ENVELOPE FROM INTERNAL STORAGE *****

746. *

747. *DIAGONALS FACE 100-400200 -300

748. *

749. LOAD LIST 1 TO 3

750. PRINT MAXFORCE ENVELOPE LIST 21 22 41 42 2104 2404 4104 4404

CON ED L-17

-- PAGE NO. 47

MEMBER FORCE ENVELOPE

ALL UNITS ARE KIP FEET

MAX AND MIN FORCE VALUES AMONGST ALL SECTION LOCATIONS

MEMB		FY/ FZ	DIST DIST	LD LD	MZ/ MY	DIST DIST	LD LD	FX	DIST	LD
21	MAX	0.06	0.00	1	0.16	0.00	1			
		-0.01	0.00	3	0.06	0.00	1	14.78 C	0.00	3
	MIN	-0.04	16.38	1	-0.10	9.56	1			
		-0.01	16.38	1	-0.04	16.38	2	10.85 C	16.38	1
22	MAX	0.05	0.00	1	0.16	0.00	1			
		0.00	0.00	1	-0.02	16.38	2	8.67 T	0.00	2
	MIN	-0.05	16.38	1	-0.04	8.19	1			
		0.00	16.38	3	-0.05	0.00	1	13.80 T	16.38	3
41	MAX	0.06	0.00	1	0.16	0.00	1			
		0.01	0.00	1	0.04	16.38	3	14.79 C	0.00	3
	MIN	-0.04	16.38	1	-0.10	9.56	1			
		0.01	16.38	3	-0.06	0.00	1	10.91 C	16.38	1
42	MAX	0.05	0.00	1	0.16	0.00	1			
		0.00	0.00	3	0.05	0.00	1	8.46 T	0.00	2
	MIN	-0.05	16.38	1	-0.04	8.19	1			
		0.00	16.38	1	0.02	16.38	2	13.67 T	16.38	3
2104	MAX	0.02	0.00	1	0.05	8.47	1			
		0.02	0.00	1	0.11	8.47	1	10.03 T	0.00	2
	MIN	-0.03	8.47	1	-0.03	3.53	1			
		0.01	8.47	2	-0.05	0.00	1	16.15 T	8.47	3
2404	MAX	0.02	0.00	1	0.05	8.47	1			
		-0.01	0.00	2	0.05	0.00	1	17.63 C	0.00	3
	MIN	-0.03	8.47	1	-0.01	4.24	1			
		-0.02	8.47	1	-0.11	8.47	1	13.11 C	8.47	1
4104	MAX	0.02	0.00	1	0.05	8.47	1			
		-0.02	0.00	2	0.05	0.00	1	9.86 T	0.00	2
	MIN	-0.03	8.47	1	-0.03	3.53	1			
		-0.02	8.47	1	-0.11	8.47	1	16.02 T	8.47	3
4404	MAX	0.02	0.00	1	0.05	8.47	1			
		0.02	0.00	1	0.10	8.47	1	17.63 C	0.00	3
	MIN	-0.03	8.47	1	-0.01	4.24	1			
		0.01	8.47	2	-0.05	0.00	1	13.14 C	8.47	1

CON ED L-17

-- PAGE NO. 48

***** END OF FORCE ENVELOPE FROM INTERNAL STORAGE *****

751. *

752. LOAD LIST 1 TO 3

753. PRINT MAXFORCE ENVELOPE LIST 2106 2406 4106 4406

CON ED L-17

-- PAGE NO. 49

MEMBER FORCE ENVELOPE

ALL UNITS ARE KIP FEET

MAX AND MIN FORCE VALUES AMONGST ALL SECTION LOCATIONS

MEMB	FY/ FZ	DIST	LD	MZ/ MY	DIST	LD	FX	DIST	LD
2106 MAX	0.02	0.00	3	0.04	0.00	3			
	0.01	0.00	2	0.13	11.26	2	11.72 T	0.00	1
MIN	0.00	11.26	1	-0.05	11.26	3			
	0.01	11.26	3	-0.03	0.00	2	15.84 T	11.26	3
2406 MAX	0.00	0.00	1	0.10	11.26	3			
	0.00	0.00	3	0.06	11.26	3	14.26 C	0.00	3
MIN	-0.02	11.26	3	-0.05	0.00	3			
	0.00	11.26	2	0.01	11.26	2	9.17 C	11.26	2
4106 MAX	0.02	0.00	3	0.05	0.00	3			
	-0.01	0.00	3	0.03	0.00	2	11.38 T	0.00	1
MIN	0.00	11.26	1	-0.06	11.26	3			
	-0.01	11.26	2	-0.12	11.26	2	15.39 T	11.26	3
4406 MAX	0.00	0.00	1	0.11	11.26	3			
	0.00	0.00	2	0.00	11.26	2	14.03 C	0.00	3
MIN	-0.02	11.26	3	-0.05	0.00	3			
	0.00	11.26	3	-0.06	11.26	3	8.75 C	11.26	2

***** END OF FORCE ENVELOPE FROM INTERNAL STORAGE *****

754. *

755. LOAD LIST 1 TO 3

756. PRINT MAXFORCE ENVELOPE LIST 23 24 43 44 61 63 81 83

CON ED L-17

-- PAGE NO. 50

MEMBER FORCE ENVELOPE

ALL UNITS ARE KIP FEET

MAX AND MIN FORCE VALUES AMONGST ALL SECTION LOCATIONS

MEMB	FY/ FZ	DIST	LD	MZ/ MY	DIST	LD	FX	DIST	LD
23 MAX	0.04	0.00	1	0.07	11.04	1			
	0.00	0.00	2	0.01	0.00	3	1.63 C	0.00	3
MIN	-0.04	11.04	1	-0.05	5.52	1			
	0.00	11.04	3	-0.01	11.04	3	0.64 C	11.04	2
24 MAX	0.04	0.00	1	0.10	0.00	1			
	0.00	0.00	1	0.02	0.00	2	2.49 T	0.00	3
MIN	-0.03	11.04	1	-0.04	6.44	1			
	0.00	11.04	2	0.00	11.04	3	4.09 T	11.04	2
43 MAX	0.04	0.00	1	0.07	11.04	1			
	0.00	0.00	2	0.02	11.04	2	1.23 C	0.00	2
MIN	-0.04	11.04	1	-0.05	5.52	1			
	0.00	11.04	3	-0.02	0.00	2	0.94 C	11.04	3
44 MAX	0.04	0.00	1	0.10	0.00	1			
	-0.01	0.00	3	0.09	0.00	2	0.86 T	0.00	3
MIN	-0.04	11.04	1	-0.04	6.44	1			
	-0.01	11.04	2	-0.06	11.04	2	1.79 T	11.04	2
61 MAX	0.01	0.00	3	0.03	0.00	3			
	-0.02	0.00	2	0.07	0.00	3	8.00 C	0.00	3
MIN	0.00	5.07	1	-0.02	5.07	3			
	-0.02	5.07	3	-0.03	5.07	1	5.24 C	5.07	2
63 MAX	-0.01	0.00	1	0.02	5.07	3			
	0.00	0.00	1	0.04	0.00	3	5.48 T	0.00	1
MIN	-0.01	5.07	3	-0.04	0.00	3			
	-0.01	5.07	3	-0.01	5.07	3	8.21 T	5.07	3
81 MAX	0.01	0.00	3	0.03	0.00	3			
	0.02	0.00	3	0.04	5.07	3	7.59 C	0.00	3
MIN	0.00	5.07	1	-0.02	5.07	3			
	0.02	5.07	2	-0.06	0.00	3	4.99 C	5.07	2
83 MAX	-0.01	0.00	1	0.03	5.07	3			
	0.00	0.00	3	0.01	0.00	1	5.37 T	0.00	1
MIN	-0.02	5.07	3	-0.04	0.00	3			
	0.00	5.07	1	-0.02	5.07	1	8.00 T	5.07	3

CON ED L-17

-- PAGE NO. 51

***** END OF FORCE ENVELOPE FROM INTERNAL STORAGE *****

757. * LEVEL 76 TO 81 DIAGONAL

758. LOAD LIST 1 TO 3

759. PRINT MAXFORCE ENVELOPE LIST 4109 4108 2209 2208

CON ED L-17

-- PAGE NO. 52

MEMBER FORCE ENVELOPE

ALL UNITS ARE KIP FEET

MAX AND MIN FORCE VALUES AMONGST ALL SECTION LOCATIONS

MEMB		FY/ FZ	DIST DIST	LD LD	MZ/ MY	DIST DIST	LD LD		FX	DIST	LD
4109	MAX	0.01	0.00	1	0.03	8.65	1				
		0.01	0.00	2	0.03	8.65	2	9.83 T	8.65	1	
	MIN	-0.02	8.65	1	-0.01	3.60	1				
		0.00	8.65	3	-0.02	0.00	2	11.45 T	0.00	3	
4108	MAX	0.02	0.00	1	0.03	0.00	1				
		0.00	0.00	2	0.03	0.00	3	11.91 C	0.00	3	
	MIN	-0.01	8.04	1	-0.01	4.69	1				
		-0.01	8.04	3	-0.02	8.04	3	10.73 C	8.04	1	
2209	MAX	0.01	0.00	1	0.04	8.65	1				
		0.00	0.00	3	0.02	0.00	2	9.47 T	8.65	1	
	MIN	-0.02	8.65	1	-0.01	3.60	1				
		-0.01	8.65	2	-0.03	8.65	2	11.17 T	0.00	3	
2208	MAX	0.02	0.00	1	0.03	0.00	1				
		0.01	0.00	2	0.02	8.04	2	11.36 C	0.00	3	
	MIN	-0.01	8.04	1	-0.01	4.69	1				
		0.00	8.04	3	-0.02	0.00	2	10.24 C	8.04	1	

***** END OF FORCE ENVELOPE FROM INTERNAL STORAGE *****

761. *****

762. PRINT MAXFORCE ENVELOPE LIST 261 264 481 484 2208 2209 4108 4109

CON ED L-17

-- PAGE NO. 53

MEMBER FORCE ENVELOPE

ALL UNITS ARE KIP FEET

MAX AND MIN FORCE VALUES AMONGST ALL SECTION LOCATIONS

MEMB		FY/ FZ	DIST DIST	LD LD	MZ/ MY	DIST DIST	LD LD	FX	DIST	LD
261	MAX	0.02	0.00	1	0.03	0.00	1			
		0.01	0.00	2	0.02	8.65	2	8.06 C	0.00	3
	MIN	-0.01	8.65	1	-0.01	5.04	1			
		0.00	8.65	3	-0.04	0.00	2	4.04 C	8.65	1
264	MAX	0.01	0.00	1	0.03	8.04	1			
		0.00	0.00	3	0.01	0.00	2	2.33 T	8.04	2
	MIN	-0.01	8.04	1	-0.01	3.35	1			
		0.00	8.04	2	-0.02	8.04	2	7.09 T	0.00	3
481	MAX	0.02	0.00	1	0.03	0.00	1			
		0.00	0.00	3	0.05	0.00	2	8.05 C	0.00	3
	MIN	-0.01	8.65	1	-0.01	5.04	1			
		-0.01	8.65	2	-0.02	8.65	2	3.91 C	8.65	2
484	MAX	0.01	0.00	1	0.03	8.04	1			
		0.00	0.00	1	0.01	8.04	1	2.58 T	8.04	2
	MIN	-0.01	8.04	1	-0.01	3.35	1			
		0.00	8.04	3	-0.01	0.00	1	7.39 T	0.00	3
2208	MAX	0.02	0.00	1	0.03	0.00	1			
		0.01	0.00	2	0.02	8.04	2	11.36 C	0.00	3
	MIN	-0.01	8.04	1	-0.01	4.69	1			
		0.00	8.04	3	-0.02	0.00	2	10.24 C	8.04	1
2209	MAX	0.01	0.00	1	0.04	8.65	1			
		0.00	0.00	3	0.02	0.00	2	9.47 T	8.65	1
	MIN	-0.02	8.65	1	-0.01	3.60	1			
		-0.01	8.65	2	-0.03	8.65	2	11.17 T	0.00	3
4108	MAX	0.02	0.00	1	0.03	0.00	1			
		0.00	0.00	2	0.03	0.00	3	11.91 C	0.00	3
	MIN	-0.01	8.04	1	-0.01	4.69	1			
		-0.01	8.04	3	-0.02	8.04	3	10.73 C	8.04	1
4109	MAX	0.01	0.00	1	0.03	8.65	1			
		0.01	0.00	2	0.03	8.65	2	9.83 T	8.65	1
	MIN	-0.02	8.65	1	-0.01	3.60	1			
		0.00	8.65	3	-0.02	0.00	2	11.45 T	0.00	3

CON ED L-17

-- PAGE NO. 54

***** END OF FORCE ENVELOPE FROM INTERNAL STORAGE *****

763. LOAD LIST 1 TO 3

764. PRINT MAXFORCE ENVELOPE LIST 485 482 262 265 263 266 483 486

CON ED L-17

-- PAGE NO. 55

MEMBER FORCE ENVELOPE

ALL UNITS ARE KIP FEET

MAX AND MIN FORCE VALUES AMONGST ALL SECTION LOCATIONS

MEMB		FY/ FZ	DIST	LD	MZ/ MY	DIST	LD	FX	DIST	LD
485	MAX	0.02	0.00	1	0.05	11.03	3			
		0.00	0.00	3	0.01	11.03	3	7.72 C	11.03	3
	MIN	-0.02	11.03	1	-0.01	5.52	1			
		0.00	11.03	2	0.00	0.00	1	5.65 C	0.00	1
482	MAX	0.02	0.00	1	0.04	10.28	1			
		0.00	0.00	3	0.01	0.00	1	6.29 T	0.00	1
	MIN	-0.02	10.28	1	-0.01	5.14	1			
		0.00	10.28	1	-0.01	10.28	1	7.77 T	10.28	3
262	MAX	0.02	0.00	1	0.04	10.28	1			
		0.00	0.00	3	0.01	10.28	3	6.32 T	0.00	1
	MIN	-0.02	10.28	1	-0.01	5.14	1			
		0.00	10.28	2	-0.02	0.00	3	7.85 T	10.28	3
265	MAX	0.02	0.00	1	0.05	11.03	3			
		0.00	0.00	2	0.02	0.00	3	7.85 C	11.03	3
	MIN	-0.02	11.03	1	-0.01	5.52	1			
		0.00	11.03	3	-0.01	11.03	3	5.73 C	0.00	1
263	MAX	0.02	0.00	1	0.05	11.03	1			
		0.00	0.00	1	0.03	0.00	2	5.72 T	0.00	1
	MIN	-0.02	11.03	1	-0.03	4.60	1			
		0.00	11.03	2	-0.01	11.03	2	7.70 T	11.03	3
266	MAX	0.02	0.00	1	0.03	0.00	1			
		0.00	0.00	2	0.00	0.00	1	7.28 C	10.28	3
	MIN	-0.02	10.28	1	-0.02	5.14	1			
		0.00	10.28	1	-0.01	10.28	1	5.00 C	0.00	1
483	MAX	0.02	0.00	1	0.05	11.03	1			
		0.00	0.00	3	0.00	11.03	3	5.70 T	0.00	1
	MIN	-0.02	11.03	1	-0.03	4.60	1			
		0.00	11.03	1	-0.02	0.00	3	7.62 T	11.03	3
486	MAX	0.02	0.00	1	0.03	0.00	1			
		0.00	0.00	1	0.02	10.28	1	7.22 C	10.28	3
	MIN	-0.02	10.28	1	-0.02	5.14	1			
		0.00	10.28	2	-0.02	0.00	1	5.00 C	0.00	1

CON ED L-17

-- PAGE NO. 56

***** END OF FORCE ENVELOPE FROM INTERNAL STORAGE *****

765. *HORIZ AT 100

766. LOAD LIST 1 TO 3

767. PRINT MAXFORCE ENVELOPE LIST 5100 5500 6200 6600 7300 7700 8400 8800

CON ED L-17

-- PAGE NO. 57

MEMBER FORCE ENVELOPE

ALL UNITS ARE KIP FEET

MAX AND MIN FORCE VALUES AMONGST ALL SECTION LOCATIONS

MEMB		FY/ FZ	DIST DIST	LD LD	MZ/ MY	DIST DIST	LD LD	FX	DIST	LD
5100	MAX	0.08	0.00	1	0.15	0.00	1			
		0.01	0.00	3	0.05	12.00	3	6.02 C	0.00	3
	MIN	-0.07	12.00	1	-0.08	6.00	1			
		0.00	12.00	2	-0.04	0.00	3	2.80 C	12.00	2
5500	MAX	0.07	0.00	1	0.15	12.00	1			
		0.00	0.00	2	0.05	0.00	3	5.99 C	0.00	3
	MIN	-0.08	12.00	1	-0.08	6.00	1			
		-0.01	12.00	3	-0.04	12.00	3	2.77 C	12.00	2
6200	MAX	0.08	0.00	1	0.19	0.00	1			
		0.01	0.00	3	0.03	12.00	3	9.95 C	0.00	3
	MIN	-0.07	12.00	1	-0.07	6.00	1			
		0.00	12.00	2	-0.04	0.00	3	5.40 C	12.00	2
6600	MAX	0.07	0.00	1	0.19	12.00	1			
		0.00	0.00	2	0.03	0.00	3	9.97 C	0.00	3
	MIN	-0.08	12.00	1	-0.08	5.00	1			
		-0.01	12.00	3	-0.04	12.00	3	5.42 C	12.00	2
7300	MAX	0.07	0.00	1	0.16	12.00	1			
		0.01	0.00	3	0.04	12.00	3	0.48 C	0.00	1
	MIN	-0.08	12.00	1	-0.08	6.00	1			
		0.00	12.00	2	-0.03	0.00	3	0.35 C	12.00	3
7700	MAX	0.08	0.00	1	0.16	0.00	1			
		0.00	0.00	2	0.04	0.00	3	0.45 C	0.00	1
	MIN	-0.07	12.00	1	-0.08	6.00	1			
		-0.01	12.00	3	-0.03	12.00	3	0.32 C	12.00	3
8400	MAX	0.08	0.00	1	0.19	0.00	1			
		0.01	0.00	3	0.03	12.00	3	10.42 C	0.00	3
	MIN	-0.07	12.00	1	-0.08	7.00	1			
		0.00	12.00	2	-0.04	0.00	3	5.87 C	12.00	2
8800	MAX	0.07	0.00	1	0.19	12.00	1			
		0.00	0.00	2	0.03	0.00	3	10.46 C	0.00	3
	MIN	-0.08	12.00	1	-0.07	5.00	1			
		-0.01	12.00	3	-0.05	12.00	3	5.91 C	12.00	2

CON ED L-17

-- PAGE NO. 58

***** END OF FORCE ENVELOPE FROM INTERNAL STORAGE *****

768. *VERTICALAT 811

769. LOAD LIST 1 TO 3

770. PRINT MAXFORCE ENVELOPE LIST 800 600 700 500

CON ED L-17

-- PAGE NO. 59

MEMBER FORCE ENVELOPE

ALL UNITS ARE KIP FEET

MAX AND MIN FORCE VALUES AMONGST ALL SECTION LOCATIONS

MEMB	FY/ FZ	DIST	LD	MZ/ MY	DIST	LD	FX	DIST	LD
800 MAX	0.03	0.00	1	0.12	0.00	1			
	0.00	0.00	2	0.03	0.00	3	0.27 C	10.11	1
MIN	0.01	10.11	3	-0.13	10.11	1			
	-0.01	10.11	3	-0.04	10.11	3	0.15 C	0.00	3
600 MAX	0.03	0.00	1	0.12	0.00	1			
	0.01	0.00	3	0.04	10.11	3	0.28 C	10.11	1
MIN	0.01	10.11	3	-0.13	10.11	1			
	0.00	10.11	2	-0.03	0.00	3	0.15 C	0.00	3
700 MAX	0.06	0.00	1	0.26	0.00	1			
	0.00	0.00	3	0.00	0.00	1	0.34 C	10.11	1
MIN	0.04	10.11	2	-0.30	10.11	1			
	0.00	10.11	1	0.00	10.11	1	0.21 C	0.00	2
500 MAX	0.06	0.00	1	0.26	0.00	1			
	0.00	0.00	3	0.00	10.11	3	0.33 C	10.11	1
MIN	0.04	10.11	3	-0.30	10.11	1			
	0.00	10.11	1	0.00	0.00	3	0.19 C	0.00	3

***** END OF FORCE ENVELOPE FROM INTERNAL STORAGE *****

771. *HORIZ PLAN AT 109 JOINT

772. LOAD LIST 1 TO 3

773. PRINT MAXFORCE ENVELOPE LIST 13 15 19 58

CON ED L-17

-- PAGE NO. 60

MEMBER FORCE ENVELOPE

ALL UNITS ARE KIP FEET

MAX AND MIN FORCE VALUES AMONGST ALL SECTION LOCATIONS

MEMB		FY/ FZ	DIST	LD	MZ/ MY	DIST	LD		FX	DIST	LD
13	MAX	0.02	0.00	1	0.05	9.36	1				
		0.00	0.00	2	0.01	9.36	1	0.51 C	0.00	3	
	MIN	-0.03	9.36	1	-0.02	3.90	1				
		0.00	9.36	3	-0.01	0.00	2	0.56 T	9.36	2	
15	MAX	0.03	0.00	1	0.04	10.28	1				
		0.00	0.00	3	0.02	0.00	2	0.61 C	0.00	3	
	MIN	-0.03	10.28	1	-0.03	5.14	1				
		0.00	10.28	2	-0.03	10.28	2	0.38 C	10.28	2	
19	MAX	0.02	0.00	1	0.07	10.28	1				
		0.01	0.00	2	0.05	10.28	2	0.54 T	0.00	1	
	MIN	-0.03	10.28	1	-0.02	4.28	1				
		0.00	10.28	3	-0.04	0.00	2	0.66 T	10.28	3	
58	MAX	0.03	0.00	1	0.04	0.00	1				
		-0.01	0.00	3	0.04	0.00	2	1.47 T	0.00	3	
	MIN	-0.02	9.36	1	-0.02	4.68	1				
		-0.01	9.36	2	-0.03	9.36	2	2.05 T	9.36	2	

***** END OF FORCE ENVELOPE FROM INTERNAL STORAGE *****

774. *HORIZ PLAN AT 108 JOINT

775. *LOAD LIST 1 TO 3

776. PRINT MAXFORCE ENVELOPE LIST 1 TO 8

CON ED L-17

-- PAGE NO. 61

MEMBER FORCE ENVELOPE

ALL UNITS ARE KIP FEET

MAX AND MIN FORCE VALUES AMONGST ALL SECTION LOCATIONS

MEMB	FY/ FZ	DIST	LD	MZ/ MY	DIST	LD	FX	DIST	LD
1 MAX	0.01	0.00	1	0.02	0.00	1			
	0.00	0.00	1	0.01	0.00	2	0.28 C	0.00	2
MIN	-0.01	7.39	1	-0.01	3.70	1			
	0.00	7.39	2	-0.02	7.39	2	0.08 T	7.39	3
2 MAX	0.01	0.00	1	0.02	7.39	1			
	0.00	0.00	2	0.01	7.39	3	0.69 C	0.00	2
MIN	-0.01	7.39	1	-0.01	3.08	1			
	0.00	7.39	1	-0.02	0.00	2	0.00 T	7.39	3
3 MAX	0.02	0.00	1	0.04	11.03	1			
	0.00	0.00	2	0.01	11.03	2	0.37 T	0.00	2
MIN	-0.02	11.03	1	-0.02	5.52	1			
	0.00	11.03	3	-0.02	0.00	2	1.58 T	11.03	3
4 MAX	0.02	0.00	1	0.04	11.03	1			
	0.00	0.00	3	0.02	0.00	2	0.09 C	0.00	2
MIN	-0.02	11.03	1	-0.02	5.52	1			
	0.00	11.03	2	-0.01	11.03	2	0.94 T	11.03	3
5 MAX	0.02	0.00	1	0.04	11.03	1			
	0.00	0.00	2	0.02	11.03	2	2.26 C	0.00	2
MIN	-0.02	11.03	1	-0.02	5.52	1			
	0.00	11.03	3	-0.01	0.00	2	1.76 C	11.03	3
6 MAX	0.02	0.00	1	0.04	11.03	1			
	0.00	0.00	3	0.01	0.00	2	2.73 C	0.00	2
MIN	-0.02	11.03	1	-0.02	5.52	1			
	0.00	11.03	2	-0.02	11.03	2	2.34 C	11.03	1
7 MAX	0.01	0.00	1	0.02	0.00	1			
	0.00	0.00	3	0.01	0.00	2	1.61 C	0.00	2
MIN	-0.01	7.39	1	-0.01	3.70	1			
	0.00	7.39	2	0.00	7.39	2	1.15 C	7.39	3
8 MAX	0.01	0.00	1	0.02	0.00	1			
	0.00	0.00	2	0.00	7.39	2	1.07 C	0.00	2
MIN	-0.01	7.39	1	-0.01	3.70	1			
	0.00	7.39	3	-0.01	0.00	2	0.60 C	7.39	3

***** END OF FORCE ENVELOPE FROM INTERNAL STORAGE *****

777. *****

778. *HORIZONTAL

779. *HORIZONTAL LEVEL 76*FACE 100 -400 _200-300

780. LOAD LIST 1 TO 3

781. PRINT MAXFORCE ENVELOPE LIST 661 TO 663 881 TO 883 6208 8108

CON ED L-17

-- PAGE NO. 63

MEMBER FORCE ENVELOPE

ALL UNITS ARE KIP FEET

MAX AND MIN FORCE VALUES AMONGST ALL SECTION LOCATIONS

MEMB		FY/ FZ	DIST DIST	LD LD	MZ/ MY	DIST DIST	LD LD	FX	DIST	LD
661	MAX	0.06	0.00	3	0.13	0.00	3			
		0.05	0.00	2	0.06	5.44	2	9.37 C	0.00	2
	MIN	-0.01	5.44	1	-0.07	5.44	3			
		0.01	5.44	3	-0.19	0.00	2	5.98 C	5.44	3
662	MAX	0.04	0.00	1	0.19	9.83	3			
		0.02	0.00	2	0.14	9.83	2	7.59 C	0.00	2
	MIN	-0.05	9.83	1	-0.01	4.10	1			
		0.01	9.83	3	-0.08	0.00	2	6.18 C	9.83	3
663	MAX	0.02	0.00	1	0.14	9.83	1			
		-0.02	0.00	3	0.17	0.00	2	0.12 T	0.00	2
	MIN	-0.07	9.83	1	-0.14	1.64	3			
		-0.03	9.83	2	-0.08	9.83	2	3.57 T	9.83	3
881	MAX	0.06	0.00	3	0.13	0.00	3			
		-0.02	0.00	3	0.23	0.00	2	10.02 C	0.00	2
	MIN	-0.01	5.44	1	-0.07	5.44	3			
		-0.06	5.44	2	-0.08	5.44	2	6.79 C	5.44	3
882	MAX	0.04	0.00	1	0.19	9.83	3			
		-0.01	0.00	3	0.07	0.00	2	8.22 C	0.00	2
	MIN	-0.05	9.83	1	-0.01	4.10	1			
		-0.02	9.83	2	-0.12	9.83	2	6.78 C	9.83	3
883	MAX	0.02	0.00	1	0.14	9.83	1			
		0.03	0.00	2	0.08	9.83	2	0.31 T	0.00	2
	MIN	-0.07	9.83	1	-0.14	1.64	3			
		0.02	9.83	3	-0.18	0.00	2	4.01 T	9.83	3
6208	MAX	0.07	0.00	3	0.18	0.00	3			
		-0.05	0.00	3	0.08	0.00	2	3.24 C	0.00	2
	MIN	0.02	5.44	1	-0.08	5.44	3			
		-0.07	5.44	2	-0.28	5.44	2	0.81 T	5.44	3
8108	MAX	0.07	0.00	3	0.18	0.00	3			
		0.07	0.00	2	0.29	5.44	2	3.09 C	0.00	2
	MIN	0.02	5.44	1	-0.09	5.44	3			
		0.05	5.44	3	-0.10	0.00	2	1.25 T	5.44	3

CON ED L-17

-- PAGE NO. 64

***** END OF FORCE ENVELOPE FROM INTERNAL STORAGE *****

782. *HORIZONTAL LEVEL 81*FACE 100 -400 _200-300

783. LOAD LIST 1 TO 3

784. PRINT MAXFORCE ENVELOPE LIST 664 TO 666 884 TO 886 6209 8109

CON ED L-17

-- PAGE NO. 65

MEMBER FORCE ENVELOPE

ALL UNITS ARE KIP FEET

MAX AND MIN FORCE VALUES AMONGST ALL SECTION LOCATIONS

MEMB	FY/ FZ	DIST	LD	MZ/ MY	DIST	LD	FX	DIST	LD
664 MAX	0.04	0.00	1	0.10	0.00	3			
	-0.01	0.00	1	0.08	0.00	2	8.56 T	0.00	3
MIN	-0.03	7.91	1	-0.02	5.93	3			
	-0.01	7.91	3	-0.05	7.91	3	11.82 T	7.91	2
665 MAX	0.03	0.00	1	0.15	8.98	1			
	0.02	0.00	2	0.11	8.98	2	8.19 T	0.00	3
MIN	-0.05	8.98	1	-0.01	2.99	1			
	0.01	8.98	3	-0.09	0.00	2	10.92 T	8.98	2
666 MAX	0.04	0.00	1	0.07	8.98	1			
	0.00	0.00	3	0.04	0.00	2	4.52 C	0.00	3
MIN	-0.05	8.98	1	-0.06	2.99	3			
	-0.01	8.98	2	-0.08	8.98	2	1.09 T	8.98	2
884 MAX	0.05	0.00	1	0.12	0.00	3			
	0.00	0.00	3	0.08	0.00	2	9.66 T	0.00	3
MIN	-0.02	7.91	1	-0.03	6.59	3			
	-0.01	7.91	2	-0.03	7.91	2	13.21 T	7.91	2
885 MAX	0.03	0.00	1	0.15	8.98	3			
	0.03	0.00	2	0.15	8.98	2	8.69 T	0.00	3
MIN	-0.05	8.98	1	-0.01	2.99	1			
	0.01	8.98	3	-0.12	0.00	2	11.56 T	8.98	2
886 MAX	0.03	0.00	1	0.08	8.98	1			
	0.00	0.00	3	0.06	0.00	2	4.94 C	0.00	3
MIN	-0.05	8.98	1	-0.06	2.99	3			
	-0.02	8.98	2	-0.11	8.98	2	0.96 T	8.98	2
6209 MAX	0.05	0.00	1	0.10	0.00	3			
	0.00	0.00	1	0.02	0.00	2	2.24 C	0.00	3
MIN	-0.02	7.91	1	-0.06	6.59	3			
	-0.01	7.91	3	-0.03	7.91	3	4.00 T	7.91	2
8109 MAX	0.05	0.00	1	0.11	0.00	3			
	0.01	0.00	2	0.05	7.91	2	2.94 C	0.00	3
MIN	-0.02	7.91	1	-0.07	7.25	3			
	0.00	7.91	3	-0.05	0.00	2	3.96 T	7.91	2

CON ED L-17

-- PAGE NO. 66

***** END OF FORCE ENVELOPE FROM INTERNAL STORAGE *****

785. *

786. *FACE 100- 200 _FACE 300-400 HORIZ

787. LOAD LIST 1 TO 3

788. PRINT MAXFORCE ENVELOPE LIST 5101 5501 7301 7701

CON ED L-17

-- PAGE NO. 67

MEMBER FORCE ENVELOPE

ALL UNITS ARE KIP FEET

MAX AND MIN FORCE VALUES AMONGST ALL SECTION LOCATIONS

MEMB		FY/ FZ	DIST	LD	MZ/ MY	DIST	LD	FX	DIST	LD
5101	MAX	0.03	0.00	1	0.06	0.00	1			
		-0.05	0.00	2	0.19	0.00	1	0.10 T	11.25	2
	MIN	-0.03	11.25	1	-0.03	5.62	1			
		-0.06	11.25	1	-0.46	11.25	1	0.18 T	0.00	3
5501	MAX	0.03	0.00	1	0.06	11.25	1			
		0.06	0.00	1	0.19	11.25	1	0.09 T	0.00	2
	MIN	-0.03	11.25	1	-0.03	5.62	1			
		0.05	11.25	2	-0.46	0.00	1	0.17 T	11.25	3
7301	MAX	0.03	0.00	1	0.08	0.00	1			
		-0.04	0.00	3	0.18	0.00	1	0.09 C	11.25	3
	MIN	-0.02	11.25	1	-0.03	6.56	1			
		-0.06	11.25	1	-0.44	11.25	1	0.07 C	0.00	2
7701	MAX	0.02	0.00	1	0.07	11.25	1			
		0.06	0.00	1	0.18	11.25	1	0.08 C	0.00	3
	MIN	-0.03	11.25	1	-0.03	4.69	1			
		0.04	11.25	3	-0.44	0.00	1	0.05 C	11.25	2

***** END OF FORCE ENVELOPE FROM INTERNAL STORAGE *****

789. LOAD LIST 1 TO 3

790. PRINT MAXFORCE ENVELOPE LIST 5102 7302

CON ED L-17

-- PAGE NO. 68

MEMBER FORCE ENVELOPE

ALL UNITS ARE KIP FEET

MAX AND MIN FORCE VALUES AMONGST ALL SECTION LOCATIONS

MEMB		FY/ FZ	DIST DIST	LD LD	MZ/ MY	DIST DIST	LD LD	FX	DIST	LD
5102	MAX	0.08	0.00	1	0.26	19.99	1			
		0.00	0.00	1	0.00	19.99	2	2.80 C	0.00	3
	MIN	-0.08	19.99	1	-0.14	10.00	1			
		0.00	19.99	3	-0.01	0.00	3	1.34 C	19.99	2
7302	MAX	0.08	0.00	1	0.26	0.00	1			
		0.00	0.00	1	0.01	19.99	3	0.18 C	0.00	1
	MIN	-0.08	19.99	1	-0.14	10.00	1			
		0.00	19.99	3	0.00	0.00	1	0.13 C	19.99	3

***** END OF FORCE ENVELOPE FROM INTERNAL STORAGE *****

791. LOAD LIST 1 TO 3

792. PRINT MAXFORCE ENVELOPE LIST 5103 7303

CON ED L-17

-- PAGE NO. 69

MEMBER FORCE ENVELOPE

ALL UNITS ARE KIP FEET

MAX AND MIN FORCE VALUES AMONGST ALL SECTION LOCATIONS

MEMB		FY/ FZ	DIST	LD	MZ/ MY	DIST	LD			
5103	MAX	0.07	0.00	1	0.16	16.25	1			
		0.00	0.00	3	0.00	16.25	2	3.16 C	0.00	3
	MIN	-0.07	16.25	1	-0.11	8.12	1			
		0.00	16.25	2	0.00	0.00	3	1.24 C	16.25	2
7303	MAX	0.07	0.00	1	0.16	0.00	1			
		0.00	0.00	1	0.00	16.25	3	0.44 T	0.00	2
	MIN	-0.06	16.25	1	-0.11	8.12	1			
		0.00	16.25	3	0.00	0.00	2	0.83 T	16.25	3

***** END OF FORCE ENVELOPE FROM INTERNAL STORAGE *****

793. LOAD LIST 1 TO 3

794. PRINT MAXFORCE ENVELOPE LIST 5104 7304

CON ED L-17

-- PAGE NO. 70

MEMBER FORCE ENVELOPE

ALL UNITS ARE KIP FEET

MAX AND MIN FORCE VALUES AMONGST ALL SECTION LOCATIONS

MEMB		FY/ FZ	DIST	LD	MZ/ MY	DIST	LD		FX	DIST	LD
5104	MAX	0.05	0.00	1	0.10	0.00	1				
		0.00	0.00	3	0.00	12.50	2		3.03 C	0.00	3
	MIN	-0.05	12.50	1	-0.05	6.25	1				
		0.00	12.50	1	-0.01	0.00	3		1.38 C	12.50	2
7304	MAX	0.05	0.00	1	0.11	0.00	1				
		0.00	0.00	3	0.01	12.50	3		0.85 T	0.00	1
	MIN	-0.05	12.50	1	-0.05	6.25	1				
		0.00	12.50	1	0.01	0.00	1		1.07 T	12.50	3

***** END OF FORCE ENVELOPE FROM INTERNAL STORAGE *****

795. LOAD LIST 1 TO 3

796. PRINT MAXFORCE ENVELOPE LIST 5106 7306

CON ED L-17

-- PAGE NO. 71

MEMBER FORCE ENVELOPE

ALL UNITS ARE KIP FEET

MAX AND MIN FORCE VALUES AMONGST ALL SECTION LOCATIONS

MEMB		FY/ FZ	DIST	LD	MZ/ MY	DIST	LD			
5106	MAX	0.01	0.00	1	0.02	0.00	1			
		0.00	0.00	1	0.00	0.00	1	0.38 T	0.00	3
	MIN	-0.01	7.95	1	-0.01	3.97	1			
		0.00	7.95	3	0.00	7.95	3	0.62 T	7.95	2
7306	MAX	0.01	0.00	1	0.02	7.95	1			
		0.00	0.00	3	0.02	0.00	3	0.08 C	0.00	3
	MIN	-0.01	7.95	1	-0.01	3.97	1			
		0.00	7.95	2	0.01	7.95	2	0.32 T	7.95	2

***** END OF FORCE ENVELOPE FROM INTERNAL STORAGE *****

797. LOAD LIST 1 TO 3

798. PRINT MAXFORCE ENVELOPE LIST 5108 7308

CON ED L-17

-- PAGE NO. 72

MEMBER FORCE ENVELOPE

ALL UNITS ARE KIP FEET

MAX AND MIN FORCE VALUES AMONGST ALL SECTION LOCATIONS

MEMB		FY/ FZ	DIST	LD	MZ/ MY	DIST	LD	FX	DIST	LD
5108	MAX	0.01	0.00	1	0.00	5.00	1			
		0.00	0.00	3	0.00	0.00	2	0.62 C	0.00	3
	MIN	-0.01	5.00	1	-0.01	2.50	1			
		0.00	5.00	2	0.00	0.00	3	0.40 T	5.00	2
7308	MAX	0.01	0.00	1	0.01	5.00	1			
		0.00	0.00	2	0.01	5.00	2	1.21 T	0.00	3
	MIN	-0.01	5.00	1	-0.01	2.50	1			
		0.00	5.00	1	0.00	0.00	3	1.81 T	5.00	2

***** END OF FORCE ENVELOPE FROM INTERNAL STORAGE *****

799. LOAD LIST 1 TO 3

800. PRINT MAXFORCE ENVELOPE LIST 5109 7309

CON ED L-17

-- PAGE NO. 73

MEMBER FORCE ENVELOPE

ALL UNITS ARE KIP FEET

MAX AND MIN FORCE VALUES AMONGST ALL SECTION LOCATIONS

MEMB		FY/ FZ	DIST	LD	MZ/ MY	DIST	LD	FX	DIST	LD
5109	MAX	0.01	0.00	1	0.00	0.00	1			
		0.00	0.00	3	0.00	5.00	3	0.53 C	0.00	1
	MIN	0.00	5.00	1	0.00	2.50	1			
		0.00	5.00	2	0.00	0.00	3	0.02 C	5.00	3
7309	MAX	0.01	0.00	1	0.00	0.00	1			
		0.00	0.00	2	0.01	5.00	2	0.91 C	0.00	1
	MIN	0.00	5.00	1	0.00	2.50	1			
		0.00	5.00	3	-0.01	0.00	2	0.73 C	5.00	2

***** END OF FORCE ENVELOPE FROM INTERNAL STORAGE *****

801. *HORIZONTAL

802. *FACE 100-400 _200-300 HPRIZ

803. LOAD LIST 1 TO 3

804. PRINT MAXFORCE ENVELOPE LIST 6201 6601 8401 8801

CON ED L-17

-- PAGE NO. 74

MEMBER FORCE ENVELOPE

ALL UNITS ARE KIP FEET

MAX AND MIN FORCE VALUES AMONGST ALL SECTION LOCATIONS

MEMB		FY/ FZ	DIST	LD	MZ/ MY	DIST	LD	FX	DIST	LD
6201	MAX	0.02	0.00	1	0.07	11.25	3			
		-0.03	0.00	2	0.19	0.00	1	0.51 C	11.25	3
	MIN	-0.03	11.25	1	-0.04	3.75	3			
		-0.04	11.25	1	-0.29	11.25	1	0.33 C	0.00	2
6601	MAX	0.03	0.00	1	0.07	0.00	3			
		0.04	0.00	1	0.18	11.25	1	0.04 T	0.00	1
	MIN	-0.03	11.25	1	-0.02	5.62	1			
		0.03	11.25	2	-0.29	0.00	1	0.10 T	11.25	3
8401	MAX	0.03	0.00	1	0.07	11.25	3			
		-0.03	0.00	2	0.18	0.00	1	0.03 T	11.25	1
	MIN	-0.03	11.25	1	-0.02	5.62	1			
		-0.04	11.25	1	-0.29	11.25	1	0.09 T	0.00	3
8801	MAX	0.03	0.00	1	0.07	0.00	3			
		0.04	0.00	1	0.20	11.25	1	0.53 C	0.00	3
	MIN	-0.02	11.25	1	-0.04	7.50	3			
		0.03	11.25	2	-0.29	0.00	1	0.35 C	11.25	2

***** END OF FORCE ENVELOPE FROM INTERNAL STORAGE *****

805. LOAD LIST 1 TO 3

806. PRINT MAXFORCE ENVELOPE LIST 6202 8402

CON ED L-17

-- PAGE NO. 75

MEMBER FORCE ENVELOPE

ALL UNITS ARE KIP FEET

MAX AND MIN FORCE VALUES AMONGST ALL SECTION LOCATIONS

MEMB		FY/ FZ	DIST	LD	MZ/ MY	DIST	LD		FX	DIST	LD
6202	MAX	0.07	0.00	1	0.32	19.99	1				
		0.00	0.00	2	0.01	0.00	3	5.45 C	0.00	3	
	MIN	-0.09	19.99	1	-0.15	8.33	1				
		0.00	19.99	3	-0.01	19.99	3	3.09 C	19.99	2	
8402	MAX	0.09	0.00	1	0.33	0.00	1				
		0.00	0.00	3	0.01	19.99	3	5.71 C	0.00	3	
	MIN	-0.07	19.99	1	-0.15	11.66	1				
		0.00	19.99	2	0.00	0.00	3	3.35 C	19.99	2	

***** END OF FORCE ENVELOPE FROM INTERNAL STORAGE *****

807. LOAD LIST 1 TO 3

808. PRINT MAXFORCE ENVELOPE LIST 6203 8403

CON ED L-17

-- PAGE NO. 76

MEMBER FORCE ENVELOPE

ALL UNITS ARE KIP FEET

MAX AND MIN FORCE VALUES AMONGST ALL SECTION LOCATIONS

MEMB		FY/ FZ	DIST	LD	MZ/ MY	DIST	LD	FX	DIST	LD
6203	MAX	0.06	0.00	1	0.17	16.25	1			
		0.00	0.00	3	0.00	16.25	3	4.77 C	0.00	3
	MIN	-0.07	16.25	1	-0.11	8.12	1			
		0.00	16.25	2	0.00	0.00	3	2.88 C	16.25	2
8403	MAX	0.07	0.00	1	0.17	0.00	1			
		0.00	0.00	2	0.00	0.00	3	5.01 C	0.00	3
	MIN	-0.06	16.25	1	-0.11	8.12	1			
		0.00	16.25	3	0.00	16.25	3	3.12 C	16.25	2

***** END OF FORCE ENVELOPE FROM INTERNAL STORAGE *****

809. LOAD LIST 1 TO 3

810. PRINT MAXFORCE ENVELOPE LIST 6204 8404

CON ED L-17

-- PAGE NO. 77

MEMBER FORCE ENVELOPE

ALL UNITS ARE KIP FEET

MAX AND MIN FORCE VALUES AMONGST ALL SECTION LOCATIONS

MEMB		FY/ FZ	DIST	LD	MZ/ MY	DIST	LD		FX	DIST	LD
6204	MAX	0.05	0.00	1	0.13	12.50	1				
		0.00	0.00	1	0.02	0.00	3	5.36 C	0.00	1	
	MIN	-0.06	12.50	1	-0.05	5.21	1				
		0.00	12.50	3	-0.02	12.50	3	4.84 C	12.50	3	
8404	MAX	0.06	0.00	1	0.14	0.00	1				
		0.00	0.00	3	0.02	12.50	3	5.45 C	0.00	1	
	MIN	-0.04	12.50	1	-0.05	7.29	1				
		0.00	12.50	1	-0.02	0.00	3	4.95 C	12.50	3	

***** END OF FORCE ENVELOPE FROM INTERNAL STORAGE *****

811. *

812. *

813. *ARM MEMBERS

814. LOAD LIST 1 TO 3

815. PRINT MAXFORCE ENVELOPE LIST 1001 1002 1005 1006

CON ED L-17

-- PAGE NO. 78

MEMBER FORCE ENVELOPE

ALL UNITS ARE KIP FEET

MAX AND MIN FORCE VALUES AMONGST ALL SECTION LOCATIONS

MEMB		FY/ FZ	DIST	LD	MZ/ MY	DIST	LD				
1001	MAX	0.03	0.00	1	0.25	11.01	1				
		-0.01	0.00	3	0.04	0.00	2	11.19	C	0.00	2
	MIN	-0.08	11.01	1	-0.06	2.75	1				
		-0.01	11.01	2	-0.07	11.01	2	7.09	C	11.01	3
1002	MAX	0.03	0.00	1	0.25	11.01	1				
		0.01	0.00	2	0.06	11.01	2	11.36	C	0.00	2
	MIN	-0.08	11.01	1	-0.06	2.75	1				
		0.01	11.01	3	-0.04	0.00	2	7.13	C	11.01	3
1005	MAX	0.03	0.00	1	0.20	11.01	1				
		0.01	0.00	2	0.06	11.01	2	7.28	C	0.00	2
	MIN	-0.07	11.01	1	-0.07	3.67	1				
		0.00	11.01	3	-0.04	0.00	2	0.54	C	11.01	3
1006	MAX	0.03	0.00	1	0.21	11.01	1				
		0.00	0.00	3	0.04	0.00	2	7.48	C	0.00	2
	MIN	-0.07	11.01	1	-0.07	3.67	3				
		-0.01	11.01	2	-0.05	11.01	2	0.62	C	11.01	3

***** END OF FORCE ENVELOPE FROM INTERNAL STORAGE *****

816. *

817. LOAD LIST 1 TO 3

818. PRINT MAXFORCE ENVELOPE LIST 1003 1004 1007 1008

CON ED L-17

-- PAGE NO. 79

MEMBER FORCE ENVELOPE

ALL UNITS ARE KIP FEET

MAX AND MIN FORCE VALUES AMONGST ALL SECTION LOCATIONS

MEMB		FY/ FZ	DIST	LD	MZ/ MY	DIST	LD		FX	DIST	LD
1003	MAX	0.01	0.00	1	0.04	10.69	1				
		0.00	0.00	2	0.00	10.69	3	4.37 T	0.00	3	
	MIN	-0.02	10.69	1	-0.01	4.45	1				
		0.00	10.69	3	0.00	0.00	2	10.58 T	10.69	2	
1004	MAX	0.01	0.00	1	0.04	10.69	1				
		0.00	0.00	3	0.00	0.00	2	4.40 T	0.00	3	
	MIN	-0.02	10.69	1	-0.01	4.45	1				
		0.00	10.69	2	0.00	10.69	2	10.75 T	10.69	2	
1007	MAX	0.01	0.00	1	0.04	10.69	1				
		0.00	0.00	3	0.01	10.69	3	4.36 T	0.00	3	
	MIN	-0.02	10.69	1	-0.01	4.45	1				
		0.00	10.69	2	0.00	0.00	3	10.57 T	10.69	2	
1008	MAX	0.01	0.00	1	0.04	10.69	1				
		0.00	0.00	2	0.00	10.69	2	4.44 T	0.00	3	
	MIN	-0.02	10.69	1	-0.01	4.45	1				
		0.00	10.69	3	0.00	0.00	2	10.77 T	10.69	2	

***** END OF FORCE ENVELOPE FROM INTERNAL STORAGE *****

819. *HORIZ BRACE AT C-C \$ D-D

820. LOAD LIST 1 TO 3

821. PRINT MAXFORCE ENVELOPE LIST 52 53 56 57

CON ED L-17

-- PAGE NO. 80

MEMBER FORCE ENVELOPE

ALL UNITS ARE KIP FEET

MAX AND MIN FORCE VALUES AMONGST ALL SECTION LOCATIONS

MEMB		FY/ FZ	DIST	LD	MZ/ MY	DIST	LD	FX	DIST	LD
52	MAX	0.00	0.00	1	0.00	0.00	1			
		0.00	0.00	1	0.00	0.00	1	0.00	0.00	1
	MIN	0.00	17.68	3	0.00	17.68	3			
		0.00	17.68	3	0.00	17.68	3	0.00	17.68	3
53	MAX	0.00	0.00	1	0.00	0.00	1			
		0.00	0.00	1	0.00	0.00	1	0.00	0.00	1
	MIN	0.00	17.68	3	0.00	17.68	3			
		0.00	17.68	3	0.00	17.68	3	0.00	17.68	3
56	MAX	0.00	0.00	1	0.00	0.00	1			
		0.00	0.00	1	0.00	0.00	1	0.00	0.00	1
	MIN	0.00	28.27	3	0.00	28.27	3			
		0.00	28.27	3	0.00	28.27	3	0.00	28.27	3
57	MAX	0.00	0.00	1	0.00	0.00	1			
		0.00	0.00	1	0.00	0.00	1	0.00	0.00	1
	MIN	0.00	28.27	3	0.00	28.27	3			
		0.00	28.27	3	0.00	28.27	3	0.00	28.27	3

***** END OF FORCE ENVELOPE FROM INTERNAL STORAGE *****

822. LOAD LIST 1 TO 3

823. PRINT MAXFORCE ENVELOPE LIST 1 TO 8

CON ED L-17

-- PAGE NO. 81

MEMBER FORCE ENVELOPE

ALL UNITS ARE KIP FEET

MAX AND MIN FORCE VALUES AMONGST ALL SECTION LOCATIONS

MEMB	FY/ FZ	DIST	LD	MZ/ MY	DIST	LD	FX	DIST	LD
1 MAX	0.01	0.00	1	0.02	0.00	1			
	0.00	0.00	1	0.01	0.00	2	0.28 C	0.00	2
MIN	-0.01	7.39	1	-0.01	3.70	1			
	0.00	7.39	2	-0.02	7.39	2	0.08 T	7.39	3
2 MAX	0.01	0.00	1	0.02	7.39	1			
	0.00	0.00	2	0.01	7.39	3	0.69 C	0.00	2
MIN	-0.01	7.39	1	-0.01	3.08	1			
	0.00	7.39	1	-0.02	0.00	2	0.00 T	7.39	3
3 MAX	0.02	0.00	1	0.04	11.03	1			
	0.00	0.00	2	0.01	11.03	2	0.37 T	0.00	2
MIN	-0.02	11.03	1	-0.02	5.52	1			
	0.00	11.03	3	-0.02	0.00	2	1.58 T	11.03	3
4 MAX	0.02	0.00	1	0.04	11.03	1			
	0.00	0.00	3	0.02	0.00	2	0.09 C	0.00	2
MIN	-0.02	11.03	1	-0.02	5.52	1			
	0.00	11.03	2	-0.01	11.03	2	0.94 T	11.03	3
5 MAX	0.02	0.00	1	0.04	11.03	1			
	0.00	0.00	2	0.02	11.03	2	2.26 C	0.00	2
MIN	-0.02	11.03	1	-0.02	5.52	1			
	0.00	11.03	3	-0.01	0.00	2	1.76 C	11.03	3
6 MAX	0.02	0.00	1	0.04	11.03	1			
	0.00	0.00	3	0.01	0.00	2	2.73 C	0.00	2
MIN	-0.02	11.03	1	-0.02	5.52	1			
	0.00	11.03	2	-0.02	11.03	2	2.34 C	11.03	1
7 MAX	0.01	0.00	1	0.02	0.00	1			
	0.00	0.00	3	0.01	0.00	2	1.61 C	0.00	2
MIN	-0.01	7.39	1	-0.01	3.70	1			
	0.00	7.39	2	0.00	7.39	2	1.15 C	7.39	3
8 MAX	0.01	0.00	1	0.02	0.00	1			
	0.00	0.00	2	0.00	7.39	2	1.07 C	0.00	2
MIN	-0.01	7.39	1	-0.01	3.70	1			
	0.00	7.39	3	-0.01	0.00	2	0.60 C	7.39	3

***** END OF FORCE ENVELOPE FROM INTERNAL STORAGE *****

824. *****

825. *****

826. *****

827. *EXISTING CONDITION

828. *LEGS

829. LOAD LIST 4 TO 6

830. PRINT MAXFORCE ENVELOPE LIST 112 212 312 412

CON ED L-17

-- PAGE NO. 83

MEMBER FORCE ENVELOPE

ALL UNITS ARE KIP FEET

MAX AND MIN FORCE VALUES AMONGST ALL SECTION LOCATIONS

MEMB	FY/ FZ	DIST	LD	MZ/ MY	DIST	LD	FX	DIST	LD
112 MAX	0.02	0.00	4	0.12	17.30	4			
	0.00	0.00	6	0.04	17.30	6	13.51 T	0.00	5
MIN	-0.03	17.30	4	-0.07	5.77	4			
	0.00	17.30	4	0.00	0.00	6	31.92 T	17.30	6
212 MAX	0.02	0.00	4	0.12	17.30	4			
	0.00	0.00	4	0.00	0.00	4	13.59 T	0.00	5
MIN	-0.03	17.30	4	-0.07	5.77	4			
	0.00	17.30	6	-0.04	17.30	6	32.02 T	17.30	6
312 MAX	0.02	0.00	4	0.12	17.30	4			
	0.00	0.00	4	0.08	17.30	4	56.09 C	0.00	6
MIN	-0.03	17.30	4	-0.06	5.77	4			
	0.00	17.30	5	0.00	0.00	6	44.63 C	17.30	4
412 MAX	0.02	0.00	4	0.13	17.30	4			
	0.00	0.00	5	0.00	0.00	4	56.00 C	0.00	6
MIN	-0.03	17.30	4	-0.06	5.77	4			
	0.00	17.30	4	-0.08	17.30	4	44.56 C	17.30	4

***** END OF FORCE ENVELOPE FROM INTERNAL STORAGE *****

831. LOAD LIST 4 TO 6

832. PRINT MAXFORCE ENVELOPE LIST 111 211 311 411

CON ED L-17

-- PAGE NO. 84

MEMBER FORCE ENVELOPE

ALL UNITS ARE KIP FEET

MAX AND MIN FORCE VALUES AMONGST ALL SECTION LOCATIONS

MEMB	FY/ FZ	DIST	LD	MZ/ MY	DIST	LD	FX	DIST	LD
111 MAX	0.02	0.00	6	0.03	8.14	4			
	-0.03	0.00	5	0.05	0.00	6	13.81 T	0.00	5
MIN	-0.02	8.14	4	-0.05	6.78	6			
	-0.05	8.14	6	-0.40	8.14	6	32.10 T	8.14	6
211 MAX	0.02	0.00	6	0.03	8.14	4			
	0.05	0.00	6	0.40	8.14	6	13.89 T	0.00	5
MIN	-0.02	8.14	4	-0.05	6.78	6			
	0.03	8.14	5	-0.05	0.00	6	32.20 T	8.14	6
311 MAX	-0.01	0.00	5	0.15	8.14	4			
	-0.02	0.00	5	0.07	0.00	4	55.78 C	0.00	6
MIN	-0.04	8.14	4	-0.06	0.00	6			
	-0.03	8.14	6	-0.16	8.14	6	44.39 C	8.14	4
411 MAX	-0.01	0.00	5	0.15	8.14	4			
	0.03	0.00	6	0.15	8.14	6	55.68 C	0.00	6
MIN	-0.04	8.14	4	-0.06	0.00	6			
	0.02	8.14	5	-0.07	0.00	4	44.32 C	8.14	4

***** END OF FORCE ENVELOPE FROM INTERNAL STORAGE *****

833. *

834. LOAD LIST 4 TO 6

835. PRINT MAXFORCE ENVELOPE LIST 100 200 300 400 101 201 301 401

CON ED L-17

-- PAGE NO. 85

MEMBER FORCE ENVELOPE

ALL UNITS ARE KIP FEET

MAX AND MIN FORCE VALUES AMONGST ALL SECTION LOCATIONS

MEMB		FY/ FZ	DIST DIST	LD LD	MZ/ MY	DIST DIST	LD LD	FX	DIST	LD
100	MAX	-0.05	0.00	5	0.40	7.12	6			
		0.23	0.00	6	1.25	7.12	6	14.03 T	0.00	5
	MIN	-0.11	7.12	6	-0.28	0.00	6			
		0.15	7.12	5	-0.42	0.00	6	32.24 T	7.12	6
200	MAX	-0.05	0.00	5	0.40	7.12	6			
		-0.15	0.00	5	0.42	0.00	6	14.13 T	0.00	5
	MIN	-0.11	7.12	6	-0.28	0.00	6			
		-0.23	7.12	6	-1.25	7.12	6	32.36 T	7.12	6
300	MAX	0.03	0.00	6	-0.04	0.00	5			
		-0.02	0.00	5	-0.13	0.00	5	50.61 C	0.00	6
	MIN	0.00	7.12	4	-0.18	7.12	6			
		-0.03	7.12	6	-0.47	7.12	6	40.41 C	7.12	4
400	MAX	0.03	0.00	6	-0.05	0.00	5			
		0.04	0.00	6	0.47	7.12	6	50.49 C	0.00	6
	MIN	0.00	7.12	4	-0.18	7.12	6			
		0.02	7.12	5	0.13	0.00	5	40.33 C	7.12	4
101	MAX	0.06	0.00	6	0.41	0.00	6			
		-0.13	0.00	5	1.29	0.00	6	14.15 T	0.00	5
	MIN	0.00	8.14	4	0.01	8.14	6			
		-0.22	8.14	6	-0.49	8.14	6	32.36 T	8.14	6
201	MAX	0.06	0.00	6	0.41	0.00	6			
		0.22	0.00	6	0.49	8.14	6	14.24 T	0.00	5
	MIN	0.00	8.14	4	0.01	8.14	6			
		0.13	8.14	5	-1.29	0.00	6	32.48 T	8.14	6
301	MAX	-0.04	0.00	5	0.33	8.14	4			
		0.09	0.00	6	0.25	8.14	6	50.48 C	0.00	6
	MIN	-0.08	8.14	4	-0.22	0.00	6			
		0.05	8.14	5	-0.45	0.00	6	40.23 C	8.14	4
401	MAX	-0.04	0.00	5	0.33	8.14	4			
		-0.05	0.00	5	0.46	0.00	6	50.36 C	0.00	6
	MIN	-0.08	8.14	4	-0.22	0.00	6			
		-0.09	8.14	6	-0.25	8.14	6	40.15 C	8.14	4

CON ED L-17

-- PAGE NO. 86

***** END OF FORCE ENVELOPE FROM INTERNAL STORAGE *****

836. *

837. LOAD LIST 4 TO 6

838. PRINT MAXFORCE ENVELOPE LIST 102 202 302 402 103 203 303 403

CON ED L-17

-- PAGE NO. 87

MEMBER FORCE ENVELOPE

ALL UNITS ARE KIP FEET

MAX AND MIN FORCE VALUES AMONGST ALL SECTION LOCATIONS

MEMB		FY/ FZ	DIST DIST	LD LD	MZ/ MY	DIST DIST	LD LD	FX	DIST	LD
102	MAX	-0.01	0.00	5	0.28	14.25	4			
		0.04	0.00	6	0.18	14.25	6	11.68 T	0.00	4
	MIN	-0.05	14.25	4	-0.21	0.00	6			
		0.03	14.25	5	-0.42	0.00	6	27.63 T	14.25	6
202	MAX	-0.01	0.00	5	0.28	14.25	4			
		-0.03	0.00	5	0.42	0.00	6	11.76 T	0.00	4
	MIN	-0.05	14.25	4	-0.21	0.00	6			
		-0.04	14.25	6	-0.18	14.25	6	27.75 T	14.25	6
302	MAX	0.00	0.00	6	0.23	14.25	4			
		-0.01	0.00	5	0.19	0.00	6	44.96 C	0.00	6
	MIN	-0.04	14.25	4	-0.08	0.00	4			
		-0.02	14.25	6	-0.12	14.25	6	36.36 C	14.25	4
402	MAX	0.00	0.00	6	0.23	14.25	4			
		0.02	0.00	6	0.11	14.25	6	44.84 C	0.00	6
	MIN	-0.04	14.25	4	-0.08	0.00	4			
		0.01	14.25	5	-0.19	0.00	6	36.27 C	14.25	4
103	MAX	0.01	0.00	6	0.11	14.25	4			
		-0.01	0.00	5	0.19	0.00	6	8.53 T	0.00	4
	MIN	-0.03	14.25	4	-0.08	2.37	4			
		-0.02	14.25	6	-0.08	14.25	6	22.08 T	14.25	6
203	MAX	0.01	0.00	6	0.11	14.25	4			
		0.02	0.00	6	0.08	14.25	6	8.62 T	0.00	4
	MIN	-0.03	14.25	4	-0.08	2.37	4			
		0.01	14.25	5	-0.19	0.00	6	22.20 T	14.25	6
303	MAX	0.00	0.00	5	0.13	14.25	4			
		0.01	0.00	6	0.07	14.25	6	40.37 C	0.00	6
	MIN	-0.04	14.25	4	-0.15	0.00	4			
		0.01	14.25	4	-0.13	0.00	6	33.19 C	14.25	4
403	MAX	0.00	0.00	5	0.13	14.25	4			
		-0.01	0.00	5	0.13	0.00	6	40.26 C	0.00	6
	MIN	-0.04	14.25	4	-0.15	0.00	4			
		-0.01	14.25	6	-0.05	14.25	6	33.11 C	14.25	4

CON ED L-17

-- PAGE NO. 88

***** END OF FORCE ENVELOPE FROM INTERNAL STORAGE *****

839. *

840. LOAD LIST 4 TO 6

841. PRINT MAXFORCE ENVELOPE LIST 104 204 304 404 105 205 305 405 106 206 -

CON ED L-17

-- PAGE NO. 89

MEMBER FORCE ENVELOPE

ALL UNITS ARE KIP FEET

MAX AND MIN FORCE VALUES AMONGST ALL SECTION LOCATIONS

MEMB	FY/ FZ	DIST	LD	MZ/ MY	DIST	LD	FX	DIST	LD
842.	306	406	107	207	307	407			
104	MAX	0.02	0.00	6	0.05	9.00	4		
		0.01	0.00	4	0.05	9.00	4	3.37 T	0.00 5
	MIN	-0.02	9.00	4	-0.01	5.25	6		
		0.00	9.00	6	-0.06	0.00	4	14.25 T	9.00 6
204	MAX	0.02	0.00	6	0.05	9.00	4		
		0.00	0.00	6	0.06	0.00	4	3.45 T	0.00 5
	MIN	-0.02	9.00	4	-0.01	5.25	6		
		-0.01	9.00	4	-0.05	9.00	4	14.40 T	9.00 6
304	MAX	0.00	0.00	4	0.11	9.00	4		
		0.03	0.00	4	0.11	9.00	4	24.01 C	0.00 5
	MIN	-0.03	9.00	4	-0.01	0.00	6		
		0.02	9.00	5	-0.12	0.00	4	21.56 C	9.00 4
404	MAX	0.00	0.00	4	0.11	9.00	4		
		-0.02	0.00	5	0.12	0.00	4	23.85 C	0.00 5
	MIN	-0.03	9.00	4	-0.01	0.75	4		
		-0.03	9.00	4	-0.11	9.00	4	21.41 C	9.00 4
105	MAX	0.04	0.00	4	0.03	0.00	4		
		0.05	0.00	6	0.36	9.00	6	3.11 T	0.00 5
	MIN	0.01	9.00	4	-0.19	9.00	5		
		0.04	9.00	5	-0.08	0.00	4	13.41 T	9.00 6
205	MAX	0.04	0.00	4	0.03	0.00	4		
		-0.04	0.00	5	0.09	0.00	4	3.29 T	0.00 5
	MIN	0.01	9.00	4	-0.19	9.00	5		
		-0.05	9.00	6	-0.37	9.00	6	13.72 T	9.00 6
305	MAX	0.03	0.00	4	0.09	0.00	4		
		-0.01	0.00	4	-0.01	0.00	5	22.92 C	0.00 5
	MIN	-0.01	9.00	6	-0.01	7.50	4		
		-0.02	9.00	6	-0.19	9.00	6	20.50 C	9.00 4
405	MAX	0.03	0.00	4	0.09	0.00	4		
		0.02	0.00	6	0.20	9.00	6	22.57 C	0.00 5
	MIN	-0.01	9.00	6	0.00	6.75	4		
		0.01	9.00	4	0.01	0.00	5	20.20 C	9.00 4

CON ED L-17

-- PAGE NO. 90

106	MAX	-0.03	0.00	4	0.19	5.83	6			
		-0.03	0.00	4	0.22	0.00	6	21.02 C	0.00	5
	MIN	-0.07	5.83	6	-0.18	0.00	6			
		-0.05	5.83	6	-0.08	5.83	6	16.66 C	5.83	6
206	MAX	-0.04	0.00	4	0.19	5.83	6			
		0.06	0.00	6	0.12	5.83	6	20.78 C	0.00	5
	MIN	-0.07	5.83	6	-0.18	0.00	6			
		0.04	5.83	4	-0.24	0.00	6	16.43 C	5.83	6
306	MAX	0.08	0.00	6	0.22	0.00	6			
		0.08	0.00	6	0.17	5.83	6	5.63 C	0.00	5
	MIN	0.03	5.83	4	-0.17	5.83	6			
		0.07	5.83	4	-0.32	0.00	6	5.26 T	5.83	6
406	MAX	0.08	0.00	6	0.23	0.00	6			
		-0.07	0.00	4	0.33	0.00	6	5.65 C	0.00	5
	MIN	0.03	5.83	5	-0.18	5.83	6			
		-0.09	5.83	6	-0.20	5.83	6	5.49 T	5.83	6
107	MAX	0.03	0.00	6	0.18	0.00	6			
		-0.02	0.00	6	-0.04	0.00	4	20.62 C	0.00	5
	MIN	-0.01	5.83	4	0.07	5.83	6			
		-0.03	5.83	5	-0.24	5.83	5	16.30 C	5.83	6
207	MAX	0.03	0.00	6	0.19	0.00	6			
		0.02	0.00	5	0.18	5.83	5	20.21 C	0.00	5
	MIN	-0.01	5.83	4	0.06	5.83	6			
		0.00	5.83	6	0.08	0.00	4	15.90 C	5.83	6
307	MAX	-0.03	0.00	4	0.12	5.83	5			
		-0.01	0.00	6	0.15	0.00	6	5.54 C	0.00	5
	MIN	-0.05	5.83	6	-0.16	0.00	6			
		-0.03	5.83	5	-0.05	5.83	5	5.17 T	5.83	6
407	MAX	-0.02	0.00	4	0.11	5.83	5			
		0.03	0.00	5	0.06	5.83	5	5.50 C	0.00	5
	MIN	-0.05	5.83	6	-0.17	0.00	6			
		0.02	5.83	6	-0.17	0.00	6	5.42 T	5.83	6

***** END OF FORCE ENVELOPE FROM INTERNAL STORAGE *****

843. *

844. LOAD LIST 4 TO 6

845. PRINT MAXFORCE ENVELOPE LIST 108 208 308 408 109 209 309 409

CON ED L-17

-- PAGE NO. 91

MEMBER FORCE ENVELOPE

ALL UNITS ARE KIP FEET

MAX AND MIN FORCE VALUES AMONGST ALL SECTION LOCATIONS

MEMB		FY/ FZ	DIST DIST	LD LD	MZ/ MY	DIST DIST	LD LD	FX	DIST	LD
108	MAX	0.07	0.00	5	0.17	0.00	5			
		0.06	0.00	5	0.08	5.25	5	11.90 C	0.00	5
	MIN	0.05	5.25	4	-0.17	5.25	5			
		0.05	5.25	6	-0.24	0.00	5	7.94 C	5.25	6
208	MAX	0.07	0.00	5	0.16	0.00	5			
		-0.05	0.00	4	0.19	0.00	5	11.79 C	0.00	5
	MIN	0.04	5.25	4	-0.16	5.25	5			
		-0.05	5.25	5	-0.08	5.25	6	7.59 C	5.25	6
308	MAX	0.00	0.00	4	0.07	5.25	6			
		0.01	0.00	4	0.04	0.00	6	6.46 C	0.00	5
	MIN	-0.04	5.25	6	-0.10	0.00	6			
		-0.01	5.25	6	-0.05	0.00	5	0.79 T	5.25	6
408	MAX	0.01	0.00	5	0.05	5.25	6			
		0.00	0.00	6	0.09	0.00	5	5.93 C	0.00	5
	MIN	-0.03	5.25	6	-0.09	0.00	6			
		-0.02	5.25	5	-0.04	5.25	5	1.20 T	5.25	6
109	MAX	0.02	0.00	6	0.01	0.00	6			
		0.00	0.00	6	0.14	0.00	5	1.94 C	0.00	5
	MIN	-0.02	5.82	4	-0.02	2.42	4			
		-0.02	5.82	5	0.05	5.82	5	0.03 C	5.82	6
209	MAX	0.02	0.00	4	0.01	0.00	6			
		0.00	0.00	5	-0.05	0.00	4	2.24 C	0.00	5
	MIN	-0.02	5.82	4	-0.02	2.91	4			
		-0.01	5.82	4	-0.10	5.82	4	0.30 T	5.82	6
309	MAX	0.02	0.00	4	0.01	5.82	6			
		0.03	0.00	6	0.12	5.82	4	4.71 C	0.00	5
	MIN	-0.02	5.82	4	-0.02	2.91	4			
		0.02	5.82	5	-0.10	0.00	6	1.84 C	5.82	6
409	MAX	0.01	0.00	4	0.03	5.82	6			
		0.01	0.00	5	0.01	0.00	6	3.53 C	0.00	5
	MIN	-0.02	5.82	4	-0.02	1.94	4			
		-0.01	5.82	6	-0.07	0.00	5	1.02 C	5.82	6

CON ED L-17

-- PAGE NO. 92

***** END OF FORCE ENVELOPE FROM INTERNAL STORAGE *****

846. *

847. *DIAGONALS (BOTTOM FACE)

848. *

849. LOAD LIST 4 TO 6

850. PRINT MAXFORCE ENVELOPE LIST 1112 1212 2212 2312 3312 3412 4412 4112

CON ED L-17

-- PAGE NO. 93

MEMBER FORCE ENVELOPE

ALL UNITS ARE KIP FEET

MAX AND MIN FORCE VALUES AMONGST ALL SECTION LOCATIONS

MEMB	FY/ FZ	DIST	LD	MZ/ MY	DIST	LD	FX	DIST	LD
1112 MAX	0.04	0.00	4	0.00	0.00	4			
	0.00	0.00	4	0.00	0.00	4	1.58 T	0.00	4
MIN	-0.04	21.54	4	0.00	21.54	6			
	0.00	21.54	6	0.00	21.54	6	4.14 T	21.54	6
1212 MAX	0.04	0.00	4	0.00	0.00	4			
	0.00	0.00	4	0.00	0.00	4	1.58 T	0.00	4
MIN	-0.04	21.54	4	0.00	21.54	6			
	0.00	21.54	6	0.00	21.54	6	4.14 T	21.54	6
2212 MAX	0.04	0.00	4	0.00	0.00	4			
	0.00	0.00	4	0.00	0.00	4	4.28 T	0.00	5
MIN	-0.04	21.54	4	0.00	21.54	6			
	0.00	21.54	6	0.00	21.54	6	8.56 T	21.54	6
2312 MAX	0.00	0.00	4	0.00	0.00	4			
	0.00	0.00	4	0.00	0.00	4	0.00	0.00	4
MIN	0.00	21.54	6	0.00	21.54	6			
	0.00	21.54	6	0.00	21.54	6	0.00	21.54	6
3312 MAX	0.00	0.00	4	0.00	0.00	4			
	0.00	0.00	4	0.00	0.00	4	0.00	0.00	4
MIN	0.00	21.54	6	0.00	21.54	6			
	0.00	21.54	6	0.00	21.54	6	0.00	21.54	6
3412 MAX	0.00	0.00	4	0.00	0.00	4			
	0.00	0.00	4	0.00	0.00	4	0.00	0.00	4
MIN	0.00	21.54	6	0.00	21.54	6			
	0.00	21.54	6	0.00	21.54	6	0.00	21.54	6
4412 MAX	0.00	0.00	4	0.00	0.00	4			
	0.00	0.00	4	0.00	0.00	4	0.00	0.00	4
MIN	0.00	21.54	6	0.00	21.54	6			
	0.00	21.54	6	0.00	21.54	6	0.00	21.54	6
4112 MAX	0.04	0.00	4	0.00	0.00	4			
	0.00	0.00	4	0.00	0.00	4	4.28 T	0.00	5
MIN	-0.04	21.54	4	0.00	21.54	6			
	0.00	21.54	6	0.00	21.54	6	8.56 T	21.54	6

CON ED L-17

-- PAGE NO. 94

***** END OF FORCE ENVELOPE FROM INTERNAL STORAGE *****

851. *

852. LOAD LIST 4 TO 6

853. PRINT MAXFORCE ENVELOPE LIST 1111 1211 2211 2311 3311 3411 4411 4111

CON ED L-17

-- PAGE NO. 95

MEMBER FORCE ENVELOPE

ALL UNITS ARE KIP FEET

MAX AND MIN FORCE VALUES AMONGST ALL SECTION LOCATIONS

MEMB		FY/ FZ	DIST DIST	LD LD	MZ/ MY	DIST DIST	LD LD	FX	DIST	LD
1111	MAX	0.05	0.00	4	0.11	0.00	4			
		-0.01	0.00	5	0.04	0.00	4	0.03 C	13.23	4
	MIN	-0.05	13.23	4	-0.05	6.61	4			
		-0.01	13.23	4	-0.11	13.23	4	0.01 C	0.00	6
1211	MAX	0.05	0.00	4	0.11	0.00	4			
		0.01	0.00	4	0.11	13.23	4	0.03 C	13.23	4
	MIN	-0.05	13.23	4	-0.05	6.61	4			
		0.01	13.23	5	-0.04	0.00	4	0.01 C	0.00	6
2211	MAX	0.05	0.00	4	0.10	0.00	4			
		-0.01	0.00	5	0.04	0.00	4	0.10 C	13.23	6
	MIN	-0.05	13.23	4	-0.06	6.61	4			
		-0.01	13.23	4	-0.06	13.23	4	0.06 C	0.00	5
2311	MAX	0.05	0.00	4	0.14	0.00	4			
		0.01	0.00	4	0.06	13.23	4	0.06 C	13.23	4
	MIN	-0.04	13.23	4	-0.05	7.72	4			
		0.00	13.23	6	-0.03	0.00	4	0.04 C	0.00	5
3311	MAX	0.05	0.00	4	0.12	0.00	4			
		-0.01	0.00	6	0.03	0.00	4	0.02 C	13.23	4
	MIN	-0.05	13.23	4	-0.06	6.61	4			
		-0.01	13.23	4	-0.09	13.23	4	0.00 T	0.00	6
3411	MAX	0.05	0.00	4	0.12	0.00	4			
		0.01	0.00	4	0.09	13.23	4	0.02 C	13.23	4
	MIN	-0.05	13.23	4	-0.06	6.61	4			
		0.01	13.23	6	-0.03	0.00	4	0.00 T	0.00	6
4411	MAX	0.05	0.00	4	0.14	0.00	4			
		0.00	0.00	6	0.03	0.00	4	0.06 C	13.23	4
	MIN	-0.04	13.23	4	-0.05	7.72	4			
		-0.01	13.23	4	-0.06	13.23	4	0.04 C	0.00	5
4111	MAX	0.05	0.00	4	0.10	0.00	4			
		0.01	0.00	4	0.06	13.23	4	0.10 C	13.23	6
	MIN	-0.05	13.23	4	-0.06	6.61	4			
		0.01	13.23	5	-0.04	0.00	4	0.06 C	0.00	5

CON ED L-17

-- PAGE NO. 96

***** END OF FORCE ENVELOPE FROM INTERNAL STORAGE *****

854. *

855. LOAD LIST 4 TO 6

856. PRINT MAXFORCE ENVELOPE LIST 11100 11200 12200 12300 13300 13400 -

CON ED L-17

-- PAGE NO. 97

MEMBER FORCE ENVELOPE

ALL UNITS ARE KIP FEET

MAX AND MIN FORCE VALUES AMONGST ALL SECTION LOCATIONS

MEMB		FY/ FZ	DIST	LD	MZ/ MY	DIST	LD	FX	DIST	LD
857. 14400 14100										
11100	MAX	0.04	0.00	4	0.00	0.00	4			
		0.00	0.00	4	0.00	0.00	4	2.24 T	15.69	5
	MIN	-0.04	15.69	4	0.00	15.69	6			
		0.00	15.69	6	0.00	15.69	6	4.98 T	0.00	6
11200	MAX	0.04	0.00	4	0.00	0.00	4			
		0.00	0.00	4	0.00	0.00	4	2.25 T	15.69	5
	MIN	-0.04	15.69	4	0.00	15.69	6			
		0.00	15.69	6	0.00	15.69	6	4.99 T	0.00	6
12200	MAX	0.04	0.00	4	0.00	0.00	4			
		0.00	0.00	4	0.00	0.00	4	0.75 T	15.69	5
	MIN	-0.04	15.69	4	0.00	15.69	6			
		0.00	15.69	6	0.00	15.69	6	1.18 T	0.00	6
12300	MAX	0.04	0.00	4	0.00	0.00	4			
		0.00	0.00	4	0.00	0.00	4	4.67 T	15.69	5
	MIN	-0.04	15.69	4	0.00	15.69	6			
		0.00	15.69	6	0.00	15.69	6	8.95 T	0.00	6
13300	MAX	0.04	0.00	4	0.00	0.00	4			
		0.00	0.00	4	0.00	0.00	4	0.37 T	15.69	6
	MIN	-0.04	15.69	4	0.00	15.69	6			
		0.00	15.69	6	0.00	15.69	6	0.54 T	0.00	4
13400	MAX	0.04	0.00	4	0.00	0.00	4			
		0.00	0.00	4	0.00	0.00	4	0.38 T	15.69	6
	MIN	-0.04	15.69	4	0.00	15.69	6			
		0.00	15.69	6	0.00	15.69	6	0.55 T	0.00	4
14400	MAX	0.04	0.00	4	0.00	0.00	4			
		0.00	0.00	4	0.00	0.00	4	4.68 T	15.69	5
	MIN	-0.04	15.69	4	0.00	15.69	6			
		0.00	15.69	6	0.00	15.69	6	8.96 T	0.00	6
14100	MAX	0.04	0.00	4	0.00	0.00	4			
		0.00	0.00	4	0.00	0.00	4	0.74 T	15.69	5
	MIN	-0.04	15.69	4	0.00	15.69	6			
		0.00	15.69	6	0.00	15.69	6	1.17 T	0.00	6

CON ED L-17

-- PAGE NO. 98

***** END OF FORCE ENVELOPE FROM INTERNAL STORAGE *****

858. *

859. LOAD LIST 4 TO 6

860. PRINT MAXFORCE ENVELOPE LIST 1100 1200 3300 3400 2200 2300 4100 -

CON ED L-17

-- PAGE NO. 99

MEMBER FORCE ENVELOPE

ALL UNITS ARE KIP FEET

MAX AND MIN FORCE VALUES AMONGST ALL SECTION LOCATIONS

MEMB		FY/ FZ	DIST	LD		MZ/ MY	DIST	LD		FX	DIST	LD
861.	4400	1101	1201	3301	3401	2201	2301	4101	4401			
1100	MAX	0.03	0.00	4		0.00	0.00	4				
		0.00	0.00	4		0.00	0.00	4		0.53 T	0.00	4
	MIN	-0.03	13.02	4		0.00	13.02	6				
		0.00	13.02	6		0.00	13.02	6		1.48 T	13.02	6
1200	MAX	0.03	0.00	4		0.00	0.00	4				
		0.00	0.00	4		0.00	0.00	4		0.53 T	0.00	4
	MIN	-0.03	13.02	4		0.00	13.02	6				
		0.00	13.02	6		0.00	13.02	6		1.48 T	13.02	6
3300	MAX	0.00	0.00	4		0.00	0.00	4				
		0.00	0.00	4		0.00	0.00	4		0.00	0.00	4
	MIN	0.00	13.02	6		0.00	13.02	6				
		0.00	13.02	6		0.00	13.02	6		0.00	13.02	6
3400	MAX	0.00	0.00	4		0.00	0.00	4				
		0.00	0.00	4		0.00	0.00	4		0.00	0.00	4
	MIN	0.00	13.02	6		0.00	13.02	6				
		0.00	13.02	6		0.00	13.02	6		0.00	13.02	6
2200	MAX	0.03	0.00	4		0.00	0.00	4				
		0.00	0.00	4		0.00	0.00	4		4.85 T	0.00	5
	MIN	-0.03	13.02	4		0.00	13.02	6				
		0.00	13.02	6		0.00	13.02	6		9.21 T	13.02	6
2300	MAX	0.03	0.00	4		0.00	0.00	4				
		0.00	0.00	4		0.00	0.00	4		1.55 T	0.00	5
	MIN	-0.03	13.02	4		0.00	13.02	6				
		0.00	13.02	6		0.00	13.02	6		3.17 T	13.02	6
4100	MAX	0.03	0.00	4		0.00	0.00	4				
		0.00	0.00	4		0.00	0.00	4		4.85 T	0.00	5
	MIN	-0.03	13.02	4		0.00	13.02	6				
		0.00	13.02	6		0.00	13.02	6		9.21 T	13.02	6
4400	MAX	0.03	0.00	4		0.00	0.00	4				
		0.00	0.00	4		0.00	0.00	4		1.54 T	0.00	5
	MIN	-0.03	13.02	4		0.00	13.02	6				
		0.00	13.02	6		0.00	13.02	6		3.17 T	13.02	6

CON ED L-17

-- PAGE NO. 100

1101	MAX	0.03	0.00	4	0.00	0.00	4			
		0.00	0.00	4	0.00	0.00	4	0.44 T	0.00	5
	MIN	-0.03	14.20	4	0.00	14.20	6			
		0.00	14.20	6	0.00	14.20	6	0.95 T	14.20	6
1201	MAX	0.03	0.00	4	0.00	0.00	4			
		0.00	0.00	4	0.00	0.00	4	0.44 T	0.00	5
	MIN	-0.03	14.20	4	0.00	14.20	6			
		0.00	14.20	6	0.00	14.20	6	0.95 T	14.20	6
3301	MAX	0.03	0.00	4	0.00	0.00	4			
		0.00	0.00	4	0.00	0.00	4	0.12 T	0.00	5
	MIN	-0.03	14.20	4	0.00	14.20	6			
		0.00	14.20	6	0.00	14.20	6	0.21 T	14.20	4
3401	MAX	0.03	0.00	4	0.00	0.00	4			
		0.00	0.00	4	0.00	0.00	4	0.12 T	0.00	5
	MIN	-0.03	14.20	4	0.00	14.20	6			
		0.00	14.20	6	0.00	14.20	6	0.21 T	14.20	4
2201	MAX	0.00	0.00	4	0.00	0.00	4			
		0.00	0.00	4	0.00	0.00	4	0.00	0.00	4
	MIN	0.00	14.20	6	0.00	14.20	6			
		0.00	14.20	6	0.00	14.20	6	0.00	14.20	6
2301	MAX	0.03	0.00	4	0.00	0.00	4			
		0.00	0.00	4	0.00	0.00	4	3.81 T	0.00	5
	MIN	-0.03	14.20	4	0.00	14.20	6			
		0.00	14.20	6	0.00	14.20	6	7.13 T	14.20	6
4101	MAX	0.00	0.00	4	0.00	0.00	4			
		0.00	0.00	4	0.00	0.00	4	0.00	0.00	4
	MIN	0.00	14.20	6	0.00	14.20	6			
		0.00	14.20	6	0.00	14.20	6	0.00	14.20	6
4401	MAX	0.03	0.00	4	0.00	0.00	4			
		0.00	0.00	4	0.00	0.00	4	3.81 T	0.00	5
	MIN	-0.03	14.20	4	0.00	14.20	6			
		0.00	14.20	6	0.00	14.20	6	7.13 T	14.20	6

***** END OF FORCE ENVELOPE FROM INTERNAL STORAGE *****

862. *

863. LOAD LIST 4 TO 6

864. PRINT MAXFORCE ENVELOPE LIST 1102 1202 3302 3402 1103 1203 3303 3403 -

CON ED L-17

-- PAGE NO. 101

MEMBER FORCE ENVELOPE

ALL UNITS ARE KIP FEET

MAX AND MIN FORCE VALUES AMONGST ALL SECTION LOCATIONS

MEMB	FY/ FZ	DIST	LD	MZ/ MY	DIST	LD	FX	DIST	LD
865. 2202 2302 4102 4402 -									
866. 2203 2303 4103 4403									
1102 MAX	0.04	0.00	4	0.00	0.00	4			
	0.00	0.00	4	0.00	0.00	4	1.01 T	0.00	4
MIN	-0.04	22.97	4	0.00	22.97	6			
	0.00	22.97	6	0.00	22.97	6	2.46 T	22.97	6
1202 MAX	0.04	0.00	4	0.00	0.00	4			
	0.00	0.00	4	0.00	0.00	4	1.01 T	0.00	4
MIN	-0.04	22.97	4	0.00	22.97	6			
	0.00	22.97	6	0.00	22.97	6	2.46 T	22.97	6
3302 MAX	0.00	0.00	4	0.00	0.00	4			
	0.00	0.00	4	0.00	0.00	4	0.00	0.00	4
MIN	0.00	22.97	6	0.00	22.97	6			
	0.00	22.97	6	0.00	22.97	6	0.00	22.97	6
3402 MAX	0.00	0.00	4	0.00	0.00	4			
	0.00	0.00	4	0.00	0.00	4	0.00	0.00	4
MIN	0.00	22.97	6	0.00	22.97	6			
	0.00	22.97	6	0.00	22.97	6	0.00	22.97	6
1103 MAX	0.03	0.00	4	0.00	0.00	4			
	0.00	0.00	4	0.00	0.00	4	1.03 T	0.00	4
MIN	-0.03	20.15	4	0.00	20.15	6			
	0.00	20.15	6	0.00	20.15	6	2.74 T	20.15	6
1203 MAX	0.03	0.00	4	0.00	0.00	4			
	0.00	0.00	4	0.00	0.00	4	1.03 T	0.00	4
MIN	-0.03	20.15	4	0.00	20.15	6			
	0.00	20.15	6	0.00	20.15	6	2.73 T	20.15	6
3303 MAX	0.00	0.00	4	0.00	0.00	4			
	0.00	0.00	4	0.00	0.00	4	0.00	0.00	4
MIN	0.00	20.15	6	0.00	20.15	6			
	0.00	20.15	6	0.00	20.15	6	0.00	20.15	6
3403 MAX	0.00	0.00	4	0.00	0.00	4			
	0.00	0.00	4	0.00	0.00	4	0.00	0.00	4
MIN	0.00	20.15	6	0.00	20.15	6			
	0.00	20.15	6	0.00	20.15	6	0.00	20.15	6

CON ED L-17

-- PAGE NO. 102

2202	MAX	0.04	0.00	4	0.00	0.00	4			
		0.00	0.00	4	0.00	0.00	4	3.92 T	0.00	5
	MIN	-0.04	22.97	4	0.00	22.97	6			
		0.00	22.97	6	0.00	22.97	6	6.88 T	22.97	6
2302	MAX	0.00	0.00	4	0.00	0.00	4			
		0.00	0.00	4	0.00	0.00	4	0.00	0.00	4
	MIN	0.00	22.97	6	0.00	22.97	6			
		0.00	22.97	6	0.00	22.97	6	0.00	22.97	6
4102	MAX	0.04	0.00	4	0.00	0.00	4			
		0.00	0.00	4	0.00	0.00	4	3.92 T	0.00	5
	MIN	-0.04	22.97	4	0.00	22.97	6			
		0.00	22.97	6	0.00	22.97	6	6.88 T	22.97	6
4402	MAX	0.00	0.00	4	0.00	0.00	4			
		0.00	0.00	4	0.00	0.00	4	0.00	0.00	4
	MIN	0.00	22.97	6	0.00	22.97	6			
		0.00	22.97	6	0.00	22.97	6	0.00	22.97	6
2203	MAX	0.03	0.00	4	0.00	0.00	4			
		0.00	0.00	4	0.00	0.00	4	4.76 T	0.00	5
	MIN	-0.03	20.15	4	0.00	20.15	6			
		0.00	20.15	6	0.00	20.15	6	7.86 T	20.15	6
2303	MAX	0.00	0.00	4	0.00	0.00	4			
		0.00	0.00	4	0.00	0.00	4	0.00	0.00	4
	MIN	0.00	20.15	6	0.00	20.15	6			
		0.00	20.15	6	0.00	20.15	6	0.00	20.15	6
4103	MAX	0.03	0.00	4	0.00	0.00	4			
		0.00	0.00	4	0.00	0.00	4	4.76 T	0.00	5
	MIN	-0.03	20.15	4	0.00	20.15	6			
		0.00	20.15	6	0.00	20.15	6	7.87 T	20.15	6
4403	MAX	0.00	0.00	4	0.00	0.00	4			
		0.00	0.00	4	0.00	0.00	4	0.00	0.00	4
	MIN	0.00	20.15	6	0.00	20.15	6			
		0.00	20.15	6	0.00	20.15	6	0.00	20.15	6

***** END OF FORCE ENVELOPE FROM INTERNAL STORAGE *****

867. *

868. *DIAGONALS FACE 100-200 _400-300

869. *

870. LOAD LIST 4 TO 6

871. PRINT MAXFORCE ENVELOPE LIST 1104 1204 3304 3404 1105 1205 3305 3405

CON ED L-17

-- PAGE NO. 103

MEMBER FORCE ENVELOPE

ALL UNITS ARE KIP FEET

MAX AND MIN FORCE VALUES AMONGST ALL SECTION LOCATIONS

MEMB		FY/ FZ	DIST DIST	LD LD	MZ/ MY	DIST DIST	LD LD	FX	DIST	LD
1104	MAX	0.03	0.00	4	0.06	0.00	4			
		0.00	0.00	4	0.03	14.45	4	0.22 C	0.00	6
	MIN	-0.02	14.45	4	-0.03	7.23	4			
		0.00	14.45	5	-0.02	0.00	4	0.11 C	14.45	4
1204	MAX	0.03	0.00	4	0.06	0.00	4			
		0.00	0.00	5	0.02	0.00	4	0.32 C	0.00	6
	MIN	-0.02	14.45	4	-0.03	7.23	4			
		0.00	14.45	4	-0.02	14.45	4	0.17 C	14.45	4
3304	MAX	0.03	0.00	4	0.07	0.00	4			
		0.00	0.00	4	0.02	14.45	4	0.02 T	0.00	4
	MIN	-0.02	14.45	4	-0.03	7.23	4			
		0.00	14.45	5	-0.01	0.00	4	0.11 T	14.45	6
3404	MAX	0.03	0.00	4	0.07	0.00	4			
		0.00	0.00	5	0.01	0.00	4	0.08 C	0.00	5
	MIN	-0.02	14.45	4	-0.03	7.23	4			
		0.00	14.45	4	-0.02	14.45	4	0.01 C	14.45	6
1105	MAX	0.02	0.00	4	0.04	12.74	4			
		0.00	0.00	6	0.06	12.74	6	0.45 T	0.00	5
	MIN	-0.02	12.74	4	-0.03	6.37	4			
		0.00	12.74	5	0.01	0.00	6	1.21 T	12.74	6
1205	MAX	0.02	0.00	4	0.04	12.74	4			
		0.00	0.00	5	-0.01	0.00	6	0.36 T	0.00	5
	MIN	-0.02	12.74	4	-0.03	6.37	4			
		0.00	12.74	6	-0.06	12.74	6	1.06 T	12.74	6
3305	MAX	0.02	0.00	4	0.05	0.00	4			
		0.00	0.00	4	0.01	0.00	4	1.42 C	0.00	6
	MIN	-0.02	12.74	4	-0.02	6.37	4			
		0.00	12.74	6	-0.01	12.74	6	1.21 C	12.74	4
3405	MAX	0.02	0.00	4	0.05	0.00	4			
		0.00	0.00	6	0.01	12.74	6	1.59 C	0.00	6
	MIN	-0.02	12.74	4	-0.02	6.37	4			
		0.00	12.74	4	-0.01	0.00	4	1.35 C	12.74	4

CON ED L-17

-- PAGE NO. 104

***** END OF FORCE ENVELOPE FROM INTERNAL STORAGE *****

872. *

873. LOAD LIST 4 TO 6

874. PRINT MAXFORCE ENVELOPE LIST 1106 1206 3306 3406 1107 1207 3307 3407

CON ED L-17

-- PAGE NO. 105

MEMBER FORCE ENVELOPE

ALL UNITS ARE KIP FEET

MAX AND MIN FORCE VALUES AMONGST ALL SECTION LOCATIONS

MEMB	FY/ FZ	DIST	LD	MZ/ MY	DIST	LD	FX	DIST	LD
1106 MAX	0.01	0.00	4	0.02	0.00	4			
	0.00	0.00	4	0.01	0.00	6	0.09 T	0.00	4
MIN	-0.01	9.24	4	-0.01	5.39	4			
	0.00	9.24	6	0.00	9.24	6	0.15 T	9.24	6
1206 MAX	0.01	0.00	4	0.02	0.00	4			
	0.00	0.00	6	0.00	9.24	6	0.19 T	0.00	4
MIN	-0.01	9.24	4	-0.01	5.39	4			
	0.00	9.24	4	0.00	0.00	6	0.23 T	9.24	6
3306 MAX	0.01	0.00	4	0.01	9.24	4			
	0.00	0.00	6	0.00	9.24	6	0.12 C	0.00	6
MIN	-0.01	9.24	4	-0.01	4.62	4			
	0.00	9.24	4	0.00	0.00	6	0.09 C	9.24	4
3406 MAX	0.01	0.00	4	0.01	9.24	6			
	0.00	0.00	4	0.00	0.00	6	0.20 C	0.00	6
MIN	-0.01	9.24	4	-0.01	4.62	4			
	0.00	9.24	6	0.00	9.24	4	0.08 C	9.24	5
1107 MAX	0.01	0.00	4	0.01	0.00	4			
	0.00	0.00	6	0.00	0.00	4	0.37 C	0.00	5
MIN	0.00	8.14	4	0.00	4.75	4			
	0.00	8.14	4	-0.01	8.14	5	0.32 C	8.14	4
1207 MAX	0.01	0.00	4	0.01	0.00	4			
	0.00	0.00	4	0.01	8.14	5	0.72 C	0.00	5
MIN	0.00	8.14	4	0.00	4.75	4			
	0.00	8.14	6	0.00	0.00	4	0.62 C	8.14	4
3307 MAX	0.01	0.00	4	0.01	0.00	4			
	0.00	0.00	6	0.01	0.00	4	0.00 T	0.00	5
MIN	-0.01	8.14	4	0.00	4.07	4			
	0.00	8.14	4	0.00	8.14	5	0.19 T	8.14	6
3407 MAX	0.01	0.00	4	0.01	0.00	4			
	0.00	0.00	4	0.00	8.14	5	0.09 C	0.00	5
MIN	-0.01	8.14	4	0.00	4.07	4			
	0.00	8.14	6	-0.01	0.00	4	0.26 T	8.14	6

CON ED I-17

-- PAGE NO. 106

***** END OF FORCE ENVELOPE FROM INTERNAL STORAGE *****

875. *

876. LOAD LIST 4 TO 6

877. PRINT MAXFORCE ENVELOPE LIST 1108 1208 3308 3408

CON ED L-17

-- PAGE NO. 107

MEMBER FORCE ENVELOPE

ALL UNITS ARE KIP FEET

MAX AND MIN FORCE VALUES AMONGST ALL SECTION LOCATIONS

MEMB		FY/ FZ	DIST	LD	MZ/ MY	DIST	LD	FX	DIST	LD
1108	MAX	0.01	0.00	4	0.01	0.00	4			
		0.01	0.00	6	0.02	7.25	6	2.09 C	0.00	5
	MIN	-0.01	7.25	4	-0.01	3.63	4			
		0.00	7.25	4	-0.02	0.00	6	1.30 C	7.25	6
1208	MAX	0.01	0.00	4	0.01	0.00	4			
		0.00	0.00	6	0.02	0.00	5	1.80 C	0.00	5
	MIN	-0.01	7.25	4	-0.01	3.63	4			
		-0.01	7.25	5	-0.02	7.25	5	1.43 C	7.25	6
3308	MAX	0.01	0.00	4	0.01	7.25	4			
		0.00	0.00	5	0.01	0.00	6	0.43 C	0.00	5
	MIN	-0.01	7.25	4	-0.01	3.63	4			
		0.00	7.25	6	0.00	7.25	6	0.38 T	7.25	6
3408	MAX	0.01	0.00	4	0.01	7.25	4			
		0.00	0.00	6	0.01	7.25	6	1.23 C	0.00	5
	MIN	-0.01	7.25	4	-0.01	3.63	4			
		0.00	7.25	4	-0.02	0.00	6	0.17 C	7.25	6

***** END OF FORCE ENVELOPE FROM INTERNAL STORAGE *****

878. *

879. *DIAGONALS FACE 100-400200 -300

880. *

881. LOAD LIST 4 TO 6

882. PRINT MAXFORCE ENVELOPE LIST 21 22 41 42 2104 2404 4104 4404

CON ED L-17

-- PAGE NO. 108

MEMBER FORCE ENVELOPE

ALL UNITS ARE KIP FEET

MAX AND MIN FORCE VALUES AMONGST ALL SECTION LOCATIONS

MEMB		FY/ FZ	DIST	LD		MZ/ MY	DIST	LD		FX	DIST	LD
21	MAX	0.05	0.00	4		0.16	0.00	4				
		-0.01	0.00	6		0.06	0.00	4		14.04 C	0.00	6
	MIN	-0.04	16.38	4		-0.10	9.56	4				
		-0.01	16.38	4		-0.04	16.38	5		9.90 C	16.38	4
22	MAX	0.05	0.00	4		0.16	0.00	4				
		0.00	0.00	4		-0.02	16.38	5		7.81 T	0.00	4
	MIN	-0.05	16.38	4		-0.05	8.19	4				
		0.00	16.38	6		-0.05	0.00	4		12.94 T	16.38	6
41	MAX	0.05	0.00	4		0.16	0.00	4				
		0.01	0.00	4		0.04	16.38	6		14.04 C	0.00	6
	MIN	-0.04	16.38	4		-0.10	9.56	4				
		0.01	16.38	6		-0.06	0.00	4		9.96 C	16.38	4
42	MAX	0.05	0.00	4		0.15	0.00	4				
		0.00	0.00	6		0.05	0.00	4		7.70 T	0.00	4
	MIN	-0.05	16.38	4		-0.05	8.19	4				
		0.00	16.38	4		0.02	16.38	5		12.89 T	16.38	6
2104	MAX	0.02	0.00	4		0.05	8.47	4				
		0.02	0.00	4		0.11	8.47	4		8.99 T	0.00	4
	MIN	-0.03	8.47	4		-0.03	3.53	4				
		0.02	8.47	5		-0.05	0.00	4		15.12 T	8.47	6
2404	MAX	0.02	0.00	4		0.05	8.47	4				
		-0.01	0.00	5		0.06	0.00	4		16.74 C	0.00	6
	MIN	-0.03	8.47	4		-0.01	4.24	4				
		-0.02	8.47	4		-0.11	8.47	4		12.00 C	8.47	4
4104	MAX	0.02	0.00	4		0.05	8.47	4				
		-0.02	0.00	5		0.05	0.00	4		8.94 T	0.00	4
	MIN	-0.03	8.47	4		-0.03	3.53	4				
		-0.02	8.47	4		-0.12	8.47	4		15.11 T	8.47	6
4404	MAX	0.02	0.00	4		0.05	8.47	4				
		0.02	0.00	4		0.11	8.47	4		16.76 C	0.00	6
	MIN	-0.03	8.47	4		-0.01	4.24	4				
		0.01	8.47	5		-0.05	0.00	4		12.04 C	8.47	4

CON ED L-17

-- PAGE NO. 109

***** END OF FORCE ENVELOPE FROM INTERNAL STORAGE *****

883. *

884. LOAD LIST 4 TO 6

885. PRINT MAXFORCE ENVELOPE LIST 2106 2406 4106 4406

CON ED L-17

-- PAGE NO. 110

MEMBER FORCE ENVELOPE

ALL UNITS ARE KIP FEET

MAX AND MIN FORCE VALUES AMONGST ALL SECTION LOCATIONS

MEMB	FY/ FZ	DIST	LD	MZ/ MY	DIST	LD	FX	DIST	LD
2106 MAX	0.02	0.00	6	0.04	0.00	6			
	0.01	0.00	5	0.13	11.26	5	10.68 T	0.00	4
MIN	-0.01	11.26	4	-0.04	11.26	6			
	0.01	11.26	6	-0.03	0.00	5	15.02 T	11.26	6
2406 MAX	0.00	0.00	4	0.10	11.26	6			
	0.00	0.00	6	0.06	11.26	6	13.52 C	0.00	6
MIN	-0.02	11.26	6	-0.05	0.00	6			
	0.00	11.26	5	0.01	11.26	5	8.15 C	11.26	4
4106 MAX	0.02	0.00	6	0.05	0.00	6			
	-0.01	0.00	6	0.03	0.00	5	10.45 T	0.00	4
MIN	0.00	11.26	4	-0.05	11.26	6			
	-0.01	11.26	5	-0.12	11.26	5	14.66 T	11.26	6
4406 MAX	0.00	0.00	4	0.10	11.26	6			
	0.00	0.00	5	0.00	11.26	5	13.34 C	0.00	6
MIN	-0.02	11.26	6	-0.05	0.00	6			
	0.00	11.26	6	-0.06	11.26	6	7.84 C	11.26	4

***** END OF FORCE ENVELOPE FROM INTERNAL STORAGE *****

886. *

887. LOAD LIST 4 TO 6

888. PRINT MAXFORCE ENVELOPE LIST 23 24 43 44 61 63 81 83

CON ED L-17

-- PAGE NO. 111

MEMBER FORCE ENVELOPE

ALL UNITS ARE KIP FEET

MAX AND MIN FORCE VALUES AMONGST ALL SECTION LOCATIONS

MEMB	FY/ FZ	DIST	LD	MZ/ MY	DIST	LD	FX	DIST	LD
23 MAX	0.04	0.00	4	0.07	11.04	4			
	0.00	0.00	5	0.01	0.00	6	1.61 C	0.00	6
MIN	-0.04	11.04	4	-0.05	5.52	4			
	0.00	11.04	6	-0.01	11.04	6	0.64 C	11.04	5
24 MAX	0.04	0.00	4	0.10	0.00	4			
	0.00	0.00	4	0.02	0.00	5	2.46 T	0.00	6
MIN	-0.03	11.04	4	-0.04	6.44	4			
	0.00	11.04	5	0.00	11.04	6	4.06 T	11.04	5
43 MAX	0.04	0.00	4	0.07	11.04	4			
	0.00	0.00	5	0.02	11.04	5	1.24 C	0.00	5
MIN	-0.04	11.04	4	-0.05	5.52	4			
	0.00	11.04	6	-0.02	0.00	4	0.96 C	11.04	6
44 MAX	0.04	0.00	4	0.09	0.00	4			
	-0.01	0.00	6	0.09	0.00	5	0.90 T	0.00	6
MIN	-0.04	11.04	4	-0.04	6.44	4			
	-0.01	11.04	5	-0.06	11.04	5	1.81 T	11.04	5
61 MAX	0.01	0.00	6	0.02	0.00	6			
	-0.02	0.00	4	0.07	0.00	6	7.57 C	0.00	6
MIN	0.00	5.07	4	-0.02	5.07	6			
	-0.02	5.07	6	-0.03	5.07	6	4.70 C	5.07	4
63 MAX	-0.01	0.00	4	0.02	5.07	6			
	0.00	0.00	4	0.04	0.00	6	4.90 T	0.00	4
MIN	-0.01	5.07	6	-0.04	0.00	6			
	-0.01	5.07	6	-0.01	5.07	6	7.75 T	5.07	6
81 MAX	0.01	0.00	6	0.02	0.00	6			
	0.02	0.00	6	0.04	5.07	6	7.19 C	0.00	6
MIN	0.00	5.07	4	-0.02	5.07	6			
	0.02	5.07	5	-0.06	0.00	6	4.49 C	5.07	4
83 MAX	-0.01	0.00	4	0.02	5.07	6			
	0.00	0.00	6	0.01	0.00	4	4.83 T	0.00	4
MIN	-0.01	5.07	6	-0.04	0.00	6			
	-0.01	5.07	4	-0.02	5.07	4	7.57 T	5.07	6

CON ED L-17

-- PAGE NO. 112

***** END OF FORCE ENVELOPE FROM INTERNAL STORAGE *****

889. * LEVEL 76 TO 81 DIAGONAL

890. LOAD LIST 4 TO 6

891. PRINT MAXFORCE ENVELOPE LIST 4109 4108 2209 2208

CON ED L-17

-- PAGE NO. 113

MEMBER FORCE ENVELOPE

ALL UNITS ARE KIP FEET

MAX AND MIN FORCE VALUES AMONGST ALL SECTION LOCATIONS

MEMB		FY/ FZ	DIST	LD	MZ/ MY	DIST	LD	FX	DIST	LD
4109	MAX	0.01	0.00	4	0.03	8.65	4			
		0.01	0.00	5	0.03	8.65	5	9.19 T	8.65	4
	MIN	-0.02	8.65	4	-0.01	3.60	4			
		0.00	8.65	6	-0.02	0.00	5	10.99 T	0.00	6
4108	MAX	0.02	0.00	4	0.03	0.00	4			
		0.00	0.00	5	0.03	0.00	6	11.47 C	0.00	6
	MIN	-0.01	8.04	4	-0.01	4.69	4			
		-0.01	8.04	6	-0.02	8.04	6	10.09 C	8.04	4
2209	MAX	0.01	0.00	4	0.04	8.65	4			
		0.00	0.00	6	0.02	0.00	5	8.81 T	8.65	4
	MIN	-0.02	8.65	4	-0.01	3.60	4			
		-0.01	8.65	5	-0.03	8.65	5	10.68 T	0.00	6
2208	MAX	0.02	0.00	4	0.03	0.00	4			
		0.01	0.00	5	0.02	8.04	5	10.93 C	0.00	6
	MIN	-0.01	8.04	4	-0.01	4.69	4			
		0.00	8.04	6	-0.02	0.00	5	9.64 C	8.04	4

***** END OF FORCE ENVELOPE FROM INTERNAL STORAGE *****

893. *****

894. PRINT MAXFORCE ENVELOPE LIST 261 264 481 484 2208 2209 4108 4109

CON ED L-17

-- PAGE NO. 114

MEMBER FORCE ENVELOPE

ALL UNITS ARE KIP FEET

MAX AND MIN FORCE VALUES AMONGST ALL SECTION LOCATIONS

MEMB		FY/ FZ	DIST DIST	LD LD	MZ/ MY	DIST DIST	LD LD	FX	DIST	LD
261	MAX	0.02	0.00	4	0.03	0.00	4			
		0.01	0.00	5	0.02	8.65	5	7.67 C	0.00	6
	MIN	-0.01	8.65	4	-0.01	5.04	4			
		0.00	8.65	6	-0.04	0.00	5	3.53 C	8.65	4
264	MAX	0.01	0.00	4	0.03	8.04	4			
		0.00	0.00	6	0.01	0.00	5	2.12 T	8.04	4
	MIN	-0.01	8.04	4	-0.01	3.35	4			
		0.00	8.04	5	-0.02	8.04	5	6.72 T	0.00	6
481	MAX	0.02	0.00	4	0.03	0.00	4			
		0.00	0.00	6	0.04	0.00	5	7.66 C	0.00	6
	MIN	-0.01	8.65	4	-0.01	5.04	4			
		-0.01	8.65	5	-0.02	8.65	5	3.42 C	8.65	4
484	MAX	0.01	0.00	4	0.03	8.04	4			
		0.00	0.00	4	0.01	8.04	4	2.34 T	8.04	4
	MIN	-0.01	8.04	4	-0.01	3.35	4			
		0.00	8.04	6	-0.01	0.00	4	7.02 T	0.00	6
2208	MAX	0.02	0.00	4	0.03	0.00	4			
		0.01	0.00	5	0.02	8.04	5	10.93 C	0.00	6
	MIN	-0.01	8.04	4	-0.01	4.69	4			
		0.00	8.04	6	-0.02	0.00	5	9.64 C	8.04	4
2209	MAX	0.01	0.00	4	0.04	8.65	4			
		0.00	0.00	6	0.02	0.00	5	8.81 T	8.65	4
	MIN	-0.02	8.65	4	-0.01	3.60	4			
		-0.01	8.65	5	-0.03	8.65	5	10.68 T	0.00	6
4108	MAX	0.02	0.00	4	0.03	0.00	4			
		0.00	0.00	5	0.03	0.00	6	11.47 C	0.00	6
	MIN	-0.01	8.04	4	-0.01	4.69	4			
		-0.01	8.04	6	-0.02	8.04	6	10.09 C	8.04	4
4109	MAX	0.01	0.00	4	0.03	8.65	4			
		0.01	0.00	5	0.03	8.65	5	9.19 T	8.65	4
	MIN	-0.02	8.65	4	-0.01	3.60	4			
		0.00	8.65	6	-0.02	0.00	5	10.99 T	0.00	6

CON ED L-17

-- PAGE NO. 115

***** END OF FORCE ENVELOPE FROM INTERNAL STORAGE *****

895. LOAD LIST 4 TO 6

896. PRINT MAXFORCE ENVELOPE LIST 485 482 262 265 263 266 483 486

CON ED L-17

-- PAGE NO. 116

MEMBER FORCE ENVELOPE

ALL UNITS ARE KIP FEET

MAX AND MIN FORCE VALUES AMONGST ALL SECTION LOCATIONS

MEMB	FY/ FZ	DIST	LD	MZ/ MY	DIST	LD	FX	DIST	LD
485 MAX	0.02	0.00	4	0.05	11.03	6			
	0.00	0.00	6	0.01	11.03	6	7.33 C	11.03	6
MIN	-0.02	11.03	4	-0.02	5.52	4			
	0.00	11.03	5	0.00	0.00	4	5.02 C	0.00	4
482 MAX	0.02	0.00	4	0.04	10.28	4			
	0.00	0.00	6	0.01	0.00	4	5.67 T	0.00	4
MIN	-0.02	10.28	4	-0.01	5.14	4			
	0.00	10.28	4	-0.01	10.28	4	7.39 T	10.28	6
262 MAX	0.02	0.00	4	0.04	10.28	4			
	0.00	0.00	6	0.01	10.28	6	5.69 T	0.00	4
MIN	-0.02	10.28	4	-0.01	5.14	4			
	0.00	10.28	5	-0.02	0.00	6	7.46 T	10.28	6
265 MAX	0.02	0.00	4	0.05	11.03	6			
	0.00	0.00	5	0.02	0.00	6	7.45 C	11.03	6
MIN	-0.02	11.03	4	-0.02	5.52	4			
	0.00	11.03	6	-0.01	11.03	6	5.09 C	0.00	4
263 MAX	0.02	0.00	4	0.05	11.03	4			
	0.00	0.00	4	0.03	0.00	5	5.28 T	0.00	4
MIN	-0.02	11.03	4	-0.03	4.60	4			
	0.00	11.03	5	-0.01	11.03	5	7.30 T	11.03	6
266 MAX	0.02	0.00	4	0.03	0.00	4			
	0.00	0.00	5	0.00	0.00	4	6.94 C	10.28	6
MIN	-0.02	10.28	4	-0.02	5.14	4			
	0.00	10.28	4	-0.01	10.28	4	4.66 C	0.00	4
483 MAX	0.02	0.00	4	0.05	11.03	4			
	0.00	0.00	6	0.00	11.03	6	5.29 T	0.00	4
MIN	-0.02	11.03	4	-0.03	4.60	4			
	0.00	11.03	4	-0.02	0.00	6	7.24 T	11.03	6
486 MAX	0.02	0.00	4	0.03	0.00	4			
	0.00	0.00	4	0.02	10.28	4	6.88 C	10.28	6
MIN	-0.02	10.28	4	-0.02	5.14	4			
	0.00	10.28	5	-0.02	0.00	4	4.64 C	0.00	4

CON ED L-17

-- PAGE NO. 117

***** END OF FORCE ENVELOPE FROM INTERNAL STORAGE *****

897. *HORIZ AT 100

898. LOAD LIST 4 TO 6

899. PRINT MAXFORCE ENVELOPE LIST 5100 5500 6200 6600 7300 7700 8400 8800

CON ED L-17

-- PAGE NO. 118

MEMBER FORCE ENVELOPE

ALL UNITS ARE KIP FEET

MAX AND MIN FORCE VALUES AMONGST ALL SECTION LOCATIONS

MEMB	FY/ FZ	DIST	LD	MZ/ MY	DIST	LD	FX	DIST	LD
5100 MAX	0.08	0.00	4	0.15	0.00	4			
	0.01	0.00	6	0.05	12.00	6	5.65 C	0.00	6
MIN	-0.07	12.00	4	-0.08	6.00	4			
	0.00	12.00	5	-0.04	0.00	6	2.56 C	12.00	5
5500 MAX	0.07	0.00	4	0.15	12.00	4			
	0.00	0.00	5	0.05	0.00	6	5.66 C	0.00	6
MIN	-0.08	12.00	4	-0.08	6.00	4			
	-0.01	12.00	6	-0.04	12.00	6	2.56 C	12.00	5
6200 MAX	0.08	0.00	4	0.18	0.00	4			
	0.01	0.00	6	0.03	12.00	6	9.57 C	0.00	6
MIN	-0.07	12.00	4	-0.07	6.00	4			
	0.00	12.00	5	-0.04	0.00	6	5.09 C	12.00	5
6600 MAX	0.07	0.00	4	0.18	12.00	4			
	0.00	0.00	5	0.03	0.00	6	9.55 C	0.00	6
MIN	-0.08	12.00	4	-0.08	5.00	4			
	-0.01	12.00	6	-0.04	12.00	6	5.08 C	12.00	5
7300 MAX	0.07	0.00	4	0.16	12.00	4			
	0.01	0.00	6	0.04	12.00	6	0.46 C	0.00	4
MIN	-0.08	12.00	4	-0.08	6.00	4			
	0.00	12.00	5	-0.03	0.00	6	0.33 C	12.00	6
7700 MAX	0.08	0.00	4	0.16	0.00	4			
	0.00	0.00	5	0.04	0.00	6	0.46 C	0.00	4
MIN	-0.07	12.00	4	-0.08	6.00	4			
	-0.01	12.00	6	-0.03	12.00	6	0.33 C	12.00	6
8400 MAX	0.08	0.00	4	0.18	0.00	4			
	0.01	0.00	6	0.03	12.00	6	9.56 C	0.00	6
MIN	-0.07	12.00	4	-0.08	7.00	4			
	0.00	12.00	5	-0.04	0.00	6	5.09 C	12.00	5
8800 MAX	0.07	0.00	4	0.18	12.00	4			
	0.00	0.00	5	0.03	0.00	6	9.56 C	0.00	6
MIN	-0.08	12.00	4	-0.07	6.00	4			
	-0.01	12.00	6	-0.04	12.00	6	5.08 C	12.00	5

CON ED L-17

-- PAGE NO. 119

***** END OF FORCE ENVELOPE FROM INTERNAL STORAGE *****

900. *VERTICALAT 811

901. LOAD LIST 4 TO 6

902. PRINT MAXFORCE ENVELOPE LIST 800 600 700 500

CON ED L-17

-- PAGE NO. 120

MEMBER FORCE ENVELOPE

ALL UNITS ARE KIP FEET

MAX AND MIN FORCE VALUES AMONGST ALL SECTION LOCATIONS

MEMB		FY/ FZ	DIST	LD	MZ/ MY	DIST	LD	FX	DIST	LD
800	MAX	0.03	0.00	4	0.12	0.00	4			
		0.00	0.00	5	0.02	0.00	6	0.28 C	10.11	4
	MIN	0.01	10.11	6	-0.13	10.11	4			
		-0.01	10.11	6	-0.04	10.11	6	0.15 C	0.00	6
600	MAX	0.03	0.00	4	0.12	0.00	4			
		0.01	0.00	6	0.04	10.11	6	0.28 C	10.11	4
	MIN	0.01	10.11	6	-0.13	10.11	4			
		0.00	10.11	5	-0.02	0.00	6	0.15 C	0.00	6
700	MAX	0.06	0.00	4	0.26	0.00	4			
		0.00	0.00	6	0.00	10.11	6	0.34 C	10.11	4
	MIN	0.04	10.11	5	-0.30	10.11	4			
		0.00	10.11	4	0.00	0.00	6	0.21 C	0.00	5
500	MAX	0.06	0.00	4	0.26	0.00	4			
		0.00	0.00	6	0.00	10.11	6	0.33 C	10.11	4
	MIN	0.04	10.11	6	-0.30	10.11	4			
		0.00	10.11	4	0.00	0.00	6	0.19 C	0.00	6

***** END OF FORCE ENVELOPE FROM INTERNAL STORAGE *****

903. *HORIZ PLAN AT 109 JOINT

904. LOAD LIST 4 TO 6

905. PRINT MAXFORCE ENVELOPE LIST 13 15 19 58

CON ED L-17

-- PAGE NO. 121

MEMBER FORCE ENVELOPE

ALL UNITS ARE KIP FEET

MAX AND MIN FORCE VALUES AMONGST ALL SECTION LOCATIONS

MEMB		FY/ FZ	DIST	LD	MZ/ MY	DIST	LD	FX	DIST	LD
13	MAX	0.02	0.00	4	0.05	9.36	4			
		0.00	0.00	5	0.01	9.36	4	0.45 C	0.00	6
	MIN	-0.03	9.36	4	-0.02	3.90	4			
		0.00	9.36	6	-0.02	0.00	5	0.59 T	9.36	5
15	MAX	0.03	0.00	4	0.04	0.00	4			
		0.00	0.00	6	0.02	0.00	5	0.56 C	0.00	6
	MIN	-0.03	10.28	4	-0.03	5.14	4			
		0.00	10.28	5	-0.03	10.28	5	0.33 C	10.28	4
19	MAX	0.02	0.00	4	0.07	10.28	4			
		0.01	0.00	5	0.04	10.28	5	0.49 T	0.00	4
	MIN	-0.03	10.28	4	-0.02	4.28	4			
		0.00	10.28	6	-0.04	0.00	5	0.62 T	10.28	6
58	MAX	0.03	0.00	4	0.04	0.00	4			
		-0.01	0.00	6	0.04	0.00	5	1.40 T	0.00	6
	MIN	-0.02	9.36	4	-0.02	4.68	4			
		-0.01	9.36	5	-0.03	9.36	5	2.01 T	9.36	5

***** END OF FORCE ENVELOPE FROM INTERNAL STORAGE *****

906. *HORIZ PLAN AT 108 JOINT

907. *LOAD LIST 4 TO 6

908. PRINT MAXFORCE ENVELOPE LIST 1 TO 8

CON ED L-17

-- PAGE NO. 122

MEMBER FORCE ENVELOPE

ALL UNITS ARE KIP FEET

MAX AND MIN FORCE VALUES AMONGST ALL SECTION LOCATIONS

MEMB	FY/ FZ	DIST	LD	MZ/ MY	DIST	LD	FX	DIST	LD
1 MAX	0.01	0.00	4	0.02	0.00	4			
	0.00	0.00	4	0.01	0.00	5	0.30 C	0.00	5
MIN	-0.01	7.39	4	-0.01	3.70	4			
	0.00	7.39	5	-0.02	7.39	5	0.04 T	7.39	6
2 MAX	0.01	0.00	4	0.02	7.39	4			
	0.00	0.00	5	0.01	7.39	6	0.73 C	0.00	5
MIN	-0.01	7.39	4	-0.01	3.08	4			
	0.00	7.39	4	-0.02	0.00	5	0.04 C	7.39	6
3 MAX	0.02	0.00	4	0.04	11.03	4			
	0.00	0.00	5	0.01	11.03	5	0.28 T	0.00	5
MIN	-0.02	11.03	4	-0.02	5.52	4			
	0.00	11.03	6	-0.02	0.00	5	1.46 T	11.03	6
4 MAX	0.02	0.00	4	0.04	11.03	4			
	0.00	0.00	6	0.02	0.00	5	0.18 C	0.00	5
MIN	-0.02	11.03	4	-0.02	5.52	4			
	0.00	11.03	5	-0.01	11.03	5	0.83 T	11.03	6
5 MAX	0.02	0.00	4	0.04	11.03	4			
	0.00	0.00	5	0.02	11.03	5	2.24 C	0.00	5
MIN	-0.02	11.03	4	-0.02	5.52	4			
	0.00	11.03	6	-0.01	0.00	5	1.70 C	11.03	6
6 MAX	0.02	0.00	4	0.04	11.03	4			
	0.00	0.00	6	0.01	0.00	5	2.71 C	0.00	5
MIN	-0.02	11.03	4	-0.02	5.52	4			
	0.00	11.03	5	-0.02	11.03	5	2.29 C	11.03	4
7 MAX	0.01	0.00	4	0.02	0.00	4			
	0.00	0.00	6	0.01	0.00	5	1.59 C	0.00	5
MIN	-0.01	7.39	4	-0.01	3.70	4			
	0.00	7.39	5	0.00	7.39	5	1.12 C	7.39	6
8 MAX	0.01	0.00	4	0.02	0.00	4			
	0.00	0.00	5	0.00	7.39	5	1.06 C	0.00	5
MIN	-0.01	7.39	4	-0.01	3.70	4			
	0.00	7.39	6	-0.01	0.00	5	0.59 C	7.39	6

CON ED L-17

-- PAGE NO. 123

***** END OF FORCE ENVELOPE FROM INTERNAL STORAGE *****

909. *****
910. *HORIZONTAL
911. *HORIZONTAL LEVEL 76*FACE 100 -400 _200-300
912. LOAD LIST 4 TO 6
913. PRINT MAXFORCE ENVELOPE LIST 661 TO 663 881 TO 883 6208 8108

CON ED L-17

-- PAGE NO. 124

MEMBER FORCE ENVELOPE

ALL UNITS ARE KIP FEET

MAX AND MIN FORCE VALUES AMONGST ALL SECTION LOCATIONS

MEMB	FY/ FZ	DIST DIST	LD LD	MZ/ MY	DIST DIST	LD LD	FX	DIST	LD
661 MAX	0.05	0.00	6	0.12	0.00	6			
	0.05	0.00	5	0.06	5.44	5	9.31 C	0.00	5
MIN	-0.01	5.44	4	-0.07	5.44	6			
	0.01	5.44	6	-0.19	0.00	5	5.82 C	5.44	6
662 MAX	0.04	0.00	4	0.18	9.83	6			
	0.02	0.00	5	0.14	9.83	5	7.56 C	0.00	5
MIN	-0.05	9.83	4	-0.01	4.10	4			
	0.01	9.83	6	-0.08	0.00	5	6.01 C	9.83	6
663 MAX	0.02	0.00	4	0.14	9.83	4			
	-0.02	0.00	6	0.17	0.00	5	0.17 C	0.00	5
MIN	-0.07	9.83	4	-0.13	1.64	6			
	-0.03	9.83	5	-0.08	9.83	5	3.20 T	9.83	6
881 MAX	0.06	0.00	6	0.13	0.00	6			
	-0.02	0.00	6	0.23	0.00	5	9.95 C	0.00	5
MIN	-0.01	5.44	4	-0.07	5.44	6			
	-0.06	5.44	5	-0.08	5.44	5	6.60 C	5.44	6
882 MAX	0.04	0.00	4	0.18	9.83	6			
	-0.01	0.00	6	0.07	0.00	5	8.17 C	0.00	5
MIN	-0.05	9.83	4	-0.01	4.10	4			
	-0.02	9.83	5	-0.12	9.83	5	6.58 C	9.83	6
883 MAX	0.02	0.00	4	0.14	9.83	4			
	0.03	0.00	5	0.08	9.83	5	0.04 T	0.00	5
MIN	-0.07	9.83	4	-0.13	1.64	6			
	0.02	9.83	6	-0.18	0.00	5	3.65 T	9.83	6
6208 MAX	0.07	0.00	6	0.18	0.00	5			
	-0.05	0.00	6	0.08	0.00	5	3.48 C	0.00	5
MIN	0.01	5.44	4	-0.08	5.44	6			
	-0.07	5.44	5	-0.28	5.44	5	0.49 T	5.44	6
8108 MAX	0.07	0.00	6	0.18	0.00	5			
	0.07	0.00	5	0.29	5.44	5	3.30 C	0.00	5
MIN	0.01	5.44	4	-0.08	5.44	6			
	0.05	5.44	6	-0.10	0.00	5	0.95 T	5.44	6

CON ED L-17

-- PAGE NO. 125

***** END OF FORCE ENVELOPE FROM INTERNAL STORAGE *****

914. *HORIZONTAL LEVEL 81*FACE 100 -400 _200-300

915. LOAD LIST 4 TO 6

916. PRINT MAXFORCE ENVELOPE LIST 664 TO 666 884 TO 886 6209 8109

CON ED L-17

-- PAGE NO. 126

MEMBER FORCE ENVELOPE

ALL UNITS ARE KIP FEET

MAX AND MIN FORCE VALUES AMONGST ALL SECTION LOCATIONS

MEMB	FY/ FZ	DIST	LD	MZ/ MY	DIST	LD	FX	DIST	LD
664	MAX	0.04	0.00	4	0.10	0.00	6		
		-0.01	0.00	4	0.08	0.00	5	8.20 T	0.00 6
	MIN	-0.03	7.91	4	-0.02	5.93	6		
		-0.01	7.91	6	-0.05	7.91	6	11.58 T	7.91 5
665	MAX	0.03	0.00	4	0.15	8.98	6		
		0.02	0.00	5	0.11	8.98	5	7.92 T	0.00 6
	MIN	-0.05	8.98	4	-0.01	2.99	4		
		0.01	8.98	6	-0.09	0.00	5	10.78 T	8.98 5
666	MAX	0.04	0.00	4	0.07	8.98	4		
		0.00	0.00	6	0.04	0.00	5	4.21 C	0.00 6
	MIN	-0.05	8.98	4	-0.05	2.99	6		
		-0.01	8.98	5	-0.08	8.98	5	1.32 T	8.98 5
884	MAX	0.05	0.00	4	0.11	0.00	6		
		0.00	0.00	6	0.08	0.00	5	9.26 T	0.00 6
	MIN	-0.03	7.91	4	-0.03	6.59	6		
		-0.01	7.91	5	-0.03	7.91	5	12.95 T	7.91 5
885	MAX	0.03	0.00	4	0.15	8.98	6		
		0.03	0.00	5	0.15	8.98	5	8.42 T	0.00 6
	MIN	-0.05	8.98	4	-0.01	2.99	4		
		0.01	8.98	6	-0.12	0.00	5	11.42 T	8.98 5
886	MAX	0.03	0.00	4	0.08	8.98	4		
		0.00	0.00	6	0.07	0.00	5	4.58 C	0.00 6
	MIN	-0.05	8.98	4	-0.06	2.99	6		
		-0.02	8.98	5	-0.11	8.98	5	1.23 T	8.98 5
6209	MAX	0.05	0.00	4	0.10	0.00	6		
		0.00	0.00	4	0.02	0.00	5	1.92 C	0.00 6
	MIN	-0.02	7.91	4	-0.06	6.59	6		
		-0.01	7.91	6	-0.03	7.91	6	4.19 T	7.91 5
8109	MAX	0.05	0.00	4	0.11	0.00	6		
		0.01	0.00	5	0.05	7.91	5	2.54 C	0.00 6
	MIN	-0.02	7.91	4	-0.06	7.25	6		
		0.00	7.91	6	-0.05	0.00	5	4.21 T	7.91 5

CON ED L-17

-- PAGE NO. 127

***** END OF FORCE ENVELOPE FROM INTERNAL STORAGE *****

917. *

918. *FACE 100- 200 _FACE 300-400 HORIZ

919. LOAD LIST 4 TO 6

920. PRINT MAXFORCE ENVELOPE LIST 5101 5501 7301 7701

CON ED L-17

-- PAGE NO. 128

MEMBER FORCE ENVELOPE

ALL UNITS ARE KIP FEET

MAX AND MIN FORCE VALUES AMONGST ALL SECTION LOCATIONS

MEMB	FY/ FZ	DIST	LD	MZ/ MY	DIST	LD	FX	DIST	LD
5101 MAX	0.03	0.00	4	0.06	0.00	4			
	-0.05	0.00	5	0.19	0.00	4	0.08 T	11.25	5
MIN	-0.03	11.25	4	-0.03	6.56	4			
	-0.06	11.25	4	-0.46	11.25	4	0.16 T	0.00	6
5501 MAX	0.03	0.00	4	0.06	11.25	4			
	0.06	0.00	4	0.19	11.25	4	0.08 T	0.00	5
MIN	-0.03	11.25	4	-0.03	4.69	4			
	0.05	11.25	5	-0.46	0.00	4	0.16 T	11.25	6
7301 MAX	0.03	0.00	4	0.07	0.00	4			
	-0.04	0.00	6	0.18	0.00	4	0.08 C	11.25	6
MIN	-0.02	11.25	4	-0.03	6.56	4			
	-0.06	11.25	4	-0.45	11.25	4	0.05 C	0.00	5
7701 MAX	0.02	0.00	4	0.07	11.25	4			
	0.06	0.00	4	0.18	11.25	4	0.08 C	0.00	6
MIN	-0.03	11.25	4	-0.03	4.69	4			
	0.04	11.25	6	-0.45	0.00	4	0.06 C	11.25	5

***** END OF FORCE ENVELOPE FROM INTERNAL STORAGE *****

921. LOAD LIST 4 TO 6

922. PRINT MAXFORCE ENVELOPE LIST 5102 7302

CON ED L-17

-- PAGE NO. 129

MEMBER FORCE ENVELOPE

ALL UNITS ARE KIP FEET

MAX AND MIN FORCE VALUES AMONGST ALL SECTION LOCATIONS

MEMB	FY/ FZ	DIST	LD	MZ/ MY	DIST	LD	FX	DIST	LD
5102 MAX	0.08	0.00	4	0.26	0.00	4			
	0.00	0.00	4	0.00	0.00	5	2.64 C	0.00	6
MIN	-0.08	19.99	4	-0.14	10.00	4			
	0.00	19.99	6	-0.01	19.99	6	1.24 C	19.99	5
7302 MAX	0.08	0.00	4	0.26	19.99	4			
	0.00	0.00	4	0.00	0.00	6	0.18 C	0.00	4
MIN	-0.08	19.99	4	-0.14	10.00	4			
	0.00	19.99	6	0.00	19.99	5	0.12 C	19.99	6

***** END OF FORCE ENVELOPE FROM INTERNAL STORAGE *****

923. LOAD LIST 4 TO 6

924. PRINT MAXFORCE ENVELOPE LIST 5103 7303

CON ED L-17

-- PAGE NO. 130

MEMBER FORCE ENVELOPE

ALL UNITS ARE KIP FEET

MAX AND MIN FORCE VALUES AMONGST ALL SECTION LOCATIONS

MEMB	FY/ FZ	DIST	LD	MZ/ MY	DIST	LD	FX	DIST	LD
5103 MAX	0.07	0.00	4	0.16	16.25	4			
	0.00	0.00	6	0.00	16.25	4	2.97 C	0.00	6
MIN	-0.07	16.25	4	-0.11	8.12	4			
	0.00	16.25	4	0.00	0.00	6	1.11 C	16.25	4
7303 MAX	0.06	0.00	4	0.16	16.25	4			
	0.00	0.00	4	0.00	0.00	6	0.41 T	0.00	5
MIN	-0.07	16.25	4	-0.11	8.12	4			
	0.00	16.25	6	0.00	16.25	5	0.79 T	16.25	6

***** END OF FORCE ENVELOPE FROM INTERNAL STORAGE *****

925. LOAD LIST 4 TO 6

926. PRINT MAXFORCE ENVELOPE LIST 5104 7304

CON ED L-17

-- PAGE NO. 131

MEMBER FORCE ENVELOPE

ALL UNITS ARE KIP FEET

MAX AND MIN FORCE VALUES AMONGST ALL SECTION LOCATIONS

MEMB		FY/ FZ	DIST	LD	MZ/ MY	DIST	LD			
5104	MAX	0.05	0.00	4	0.10	0.00	4			
		0.00	0.00	6	0.00	12.50	5	2.84 C	0.00	6
	MIN	-0.05	12.50	4	-0.05	6.25	4			
		0.00	12.50	4	-0.01	0.00	6	1.24 C	12.50	4
7304	MAX	0.05	0.00	4	0.11	12.50	4			
		0.00	0.00	6	0.01	12.50	6	0.78 T	0.00	4
	MIN	-0.05	12.50	4	-0.05	6.25	4			
		0.00	12.50	4	0.00	0.00	4	1.02 T	12.50	6

***** END OF FORCE ENVELOPE FROM INTERNAL STORAGE *****

927. LOAD LIST 4 TO 6

928. PRINT MAXFORCE ENVELOPE LIST 5106 7306

CON ED L-17

-- PAGE NO. 132

MEMBER FORCE ENVELOPE

ALL UNITS ARE KIP FEET

MAX AND MIN FORCE VALUES AMONGST ALL SECTION LOCATIONS

MEMB	FY/ FZ	DIST	LD	MZ/ MY	DIST	LD	FX	DIST	LD
5106 MAX	0.01	0.00	4	0.02	0.00	4			
	0.00	0.00	4	0.01	0.00	4	0.37 T	0.00	6
MIN	-0.01	7.95	4	-0.01	3.97	4			
	0.00	7.95	6	0.00	7.95	6	0.60 T	7.95	5
7306 MAX	0.01	0.00	4	0.02	7.95	4			
	0.00	0.00	6	0.02	0.00	6	0.06 C	0.00	6
MIN	-0.01	7.95	4	-0.01	3.97	4			
	0.00	7.95	5	0.01	7.95	5	0.34 T	7.95	5

***** END OF FORCE ENVELOPE FROM INTERNAL STORAGE *****

929. LOAD LIST 4 TO 6

930. PRINT MAXFORCE ENVELOPE LIST 5108 7308

CON ED L-17

-- PAGE NO. 133

MEMBER FORCE ENVELOPE

ALL UNITS ARE KIP FEET

MAX AND MIN FORCE VALUES AMONGST ALL SECTION LOCATIONS

MEMB		FY/ FZ	DIST DIST	LD LD	MZ/ MY	DIST DIST	LD LD	FX	DIST	LD
5108	MAX	0.01	0.00	4	0.00	5.00	4			
		0.00	0.00	6	0.00	0.00	5	0.56 C	0.00	6
	MIN	-0.01	5.00	4	-0.01	2.50	4			
		0.00	5.00	5	0.00	0.00	6	0.45 T	5.00	5
7308	MAX	0.01	0.00	4	0.01	5.00	4			
		0.00	0.00	5	0.01	5.00	5	1.18 T	0.00	6
	MIN	-0.01	5.00	4	-0.01	2.50	4			
		0.00	5.00	4	0.00	0.00	6	1.80 T	5.00	5

***** END OF FORCE ENVELOPE FROM INTERNAL STORAGE *****

931. LOAD LIST 4 TO 6

932. PRINT MAXFORCE ENVELOPE LIST 5109 7309

CON ED L-17

-- PAGE NO. 134

MEMBER FORCE ENVELOPE

ALL UNITS ARE KIP FEET

MAX AND MIN FORCE VALUES AMONGST ALL SECTION LOCATIONS

MEMB		FY/ FZ	DIST	LD	MZ/ MY	DIST	LD			
5109	MAX	0.01	0.00	4	0.00	0.00	4			
		0.00	0.00	6	0.00	5.00	6	0.60 C	0.00	4
	MIN	0.00	5.00	4	0.00	2.50	4			
		0.00	5.00	5	0.00	0.00	6	0.06 C	5.00	6
7309	MAX	0.01	0.00	4	0.00	0.00	4			
		0.00	0.00	5	0.01	5.00	5	0.88 C	0.00	4
	MIN	0.00	5.00	4	0.00	2.50	4			
		0.00	5.00	6	-0.01	0.00	5	0.72 C	5.00	5

***** END OF FORCE ENVELOPE FROM INTERNAL STORAGE *****

933. *HORIZONTAL

934. *FACE 100-400 _200-300 HPRIZ

935. LOAD LIST 4 TO 6

936. PRINT MAXFORCE ENVELOPE LIST 6201 6601 8401 8801

CON ED L-17

-- PAGE NO. 135

MEMBER FORCE ENVELOPE

ALL UNITS ARE KIP FEET

MAX AND MIN FORCE VALUES AMONGST ALL SECTION LOCATIONS

MEMB	FY/ FZ	DIST	LD	MZ/ MY	DIST	LD	FX	DIST	LD
6201 MAX	0.02	0.00	4	0.07	11.25	6			
	-0.03	0.00	5	0.19	0.00	4	0.49 C	11.25	6
MIN	-0.03	11.25	4	-0.04	3.75	6			
	-0.04	11.25	4	-0.29	11.25	4	0.31 C	0.00	5
6601 MAX	0.03	0.00	4	0.07	0.00	6			
	0.04	0.00	4	0.18	11.25	4	0.03 T	0.00	4
MIN	-0.03	11.25	4	-0.02	5.62	4			
	0.03	11.25	5	-0.29	0.00	4	0.08 T	11.25	6
8401 MAX	0.03	0.00	4	0.07	11.25	6			
	-0.03	0.00	5	0.18	0.00	4	0.03 T	11.25	4
MIN	-0.03	11.25	4	-0.02	5.62	4			
	-0.04	11.25	4	-0.29	11.25	4	0.09 T	0.00	6
8801 MAX	0.03	0.00	4	0.07	0.00	6			
	0.04	0.00	4	0.19	11.25	4	0.49 C	0.00	6
MIN	-0.02	11.25	4	-0.04	7.50	6			
	0.03	11.25	5	-0.29	0.00	4	0.31 C	11.25	5

***** END OF FORCE ENVELOPE FROM INTERNAL STORAGE *****

937. LOAD LIST 4 TO 6

938. PRINT MAXFORCE ENVELOPE LIST 6202 8402

CON ED L-17

-- PAGE NO. 136

MEMBER FORCE ENVELOPE

ALL UNITS ARE KIP FEET

MAX AND MIN FORCE VALUES AMONGST ALL SECTION LOCATIONS

MEMB		FY/ FZ	DIST DIST	LD LD	MZ/ MY	DIST DIST	LD LD		FX	DIST	LD
6202	MAX	0.07	0.00	4	0.32	19.99	4				
		0.00	0.00	5	0.01	0.00	6	5.24 C	0.00	6	
	MIN	-0.09	19.99	4	-0.15	10.00	4				
		0.00	19.99	6	-0.01	19.99	6	2.93 C	19.99	5	
8402	MAX	0.09	0.00	4	0.32	0.00	4				
		0.00	0.00	6	0.01	19.99	6	5.24 C	0.00	6	
	MIN	-0.07	19.99	4	-0.15	10.00	4				
		0.00	19.99	5	-0.01	0.00	6	2.93 C	19.99	5	

***** END OF FORCE ENVELOPE FROM INTERNAL STORAGE *****

939. LOAD LIST 4 TO 6

940. PRINT MAXFORCE ENVELOPE LIST 6203 8403

CON ED L-17

-- PAGE NO. 137

MEMBER FORCE ENVELOPE

ALL UNITS ARE KIP FEET

MAX AND MIN FORCE VALUES AMONGST ALL SECTION LOCATIONS

MEMB		FY/ FZ	DIST	LD	MZ/ MY	DIST	LD		FX	DIST	LD
6203	MAX	0.06	0.00	4	0.17	16.25	4				
		0.00	0.00	6	0.00	16.25	6	4.62 C	0.00	6	
	MIN	-0.07	16.25	4	-0.11	8.12	4				
		0.00	16.25	5	0.00	0.00	6	2.79 C	16.25	5	
8403	MAX	0.07	0.00	4	0.17	0.00	4				
		0.00	0.00	5	0.00	0.00	6	4.62 C	0.00	6	
	MIN	-0.06	16.25	4	-0.11	8.12	4				
		0.00	16.25	6	0.00	16.25	6	2.79 C	16.25	5	

***** END OF FORCE ENVELOPE FROM INTERNAL STORAGE *****

941. LOAD LIST 4 TO 6

942. PRINT MAXFORCE ENVELOPE LIST 6204 8404

CON ED L-17

-- PAGE NO. 138

MEMBER FORCE ENVELOPE

ALL UNITS ARE KIP FEET

MAX AND MIN FORCE VALUES AMONGST ALL SECTION LOCATIONS

MEMB		FY/ FZ	DIST	LD	MZ/ MY	DIST	LD	FX	DIST	LD
6204	MAX	0.05	0.00	4	0.13	12.50	4			
		0.00	0.00	4	0.02	0.00	6	5.08 C	0.00	5
	MIN	-0.05	12.50	4	-0.05	5.21	4			
		0.00	12.50	6	-0.02	12.50	6	4.61 C	12.50	6
8404	MAX	0.05	0.00	4	0.13	0.00	4			
		0.00	0.00	6	0.01	12.50	6	5.04 C	0.00	5
	MIN	-0.05	12.50	4	-0.05	7.29	4			
		0.00	12.50	4	-0.01	0.00	6	4.60 C	12.50	6

***** END OF FORCE ENVELOPE FROM INTERNAL STORAGE *****

943. *

944. *

945. *ARM MEMBERS

946. LOAD LIST 4 TO 6

947. PRINT MAXFORCE ENVELOPE LIST 1001 1002 1005 1006

CON ED L-17

-- PAGE NO. 139

MEMBER FORCE ENVELOPE

ALL UNITS ARE KIP FEET

MAX AND MIN FORCE VALUES AMONGST ALL SECTION LOCATIONS

MEMB		FY/ FZ	DIST	LD	MZ/ MY	DIST	LD	FX	DIST	LD
1001	MAX	0.03	0.00	4	0.25	11.01	4			
		-0.01	0.00	6	0.04	0.00	5	11.19 C	0.00	5
	MIN	-0.08	11.01	4	-0.06	2.75	4			
		-0.01	11.01	5	-0.07	11.01	5	7.09 C	11.01	6
1002	MAX	0.03	0.00	4	0.25	11.01	4			
		0.01	0.00	5	0.06	11.01	5	11.36 C	0.00	5
	MIN	-0.07	11.01	4	-0.06	2.75	4			
		0.01	11.01	6	-0.04	0.00	5	7.13 C	11.01	6
1005	MAX	0.03	0.00	4	0.21	11.01	4			
		0.01	0.00	5	0.06	11.01	5	7.28 C	0.00	5
	MIN	-0.07	11.01	4	-0.07	3.67	4			
		0.00	11.01	6	-0.04	0.00	5	0.55 C	11.01	6
1006	MAX	0.03	0.00	4	0.21	11.01	4			
		0.00	0.00	6	0.04	0.00	5	7.48 C	0.00	5
	MIN	-0.07	11.01	4	-0.07	3.67	6			
		-0.01	11.01	5	-0.05	11.01	5	0.62 C	11.01	6

***** END OF FORCE ENVELOPE FROM INTERNAL STORAGE *****

948. *

949. LOAD LIST 4 TO 6

950. PRINT MAXFORCE ENVELOPE LIST 1003 1004 1007 1008

CON ED L-17

-- PAGE NO. 140

MEMBER FORCE ENVELOPE

ALL UNITS ARE KIP FEET

MAX AND MIN FORCE VALUES AMONGST ALL SECTION LOCATIONS

MEMB	FY/ FZ	DIST	LD	MZ/ MY	DIST	LD	FX	DIST	LD
1003	MAX	0.01	0.00	4	0.04	10.69	4		
		0.00	0.00	5	0.00	10.69	6	4.37 T	0.00 6
	MIN	-0.02	10.69	4	-0.01	4.45	4		
		0.00	10.69	4	0.00	0.00	5	10.58 T	10.69 5
1004	MAX	0.01	0.00	4	0.04	10.69	4		
		0.00	0.00	6	0.00	0.00	5	4.40 T	0.00 6
	MIN	-0.02	10.69	4	-0.01	4.45	4		
		0.00	10.69	5	0.00	10.69	5	10.75 T	10.69 5
1007	MAX	0.01	0.00	4	0.04	10.69	4		
		0.00	0.00	6	0.01	10.69	6	4.36 T	0.00 6
	MIN	-0.02	10.69	4	-0.01	4.45	4		
		0.00	10.69	5	0.00	0.00	6	10.57 T	10.69 5
1008	MAX	0.01	0.00	4	0.04	10.69	4		
		0.00	0.00	5	0.00	10.69	5	4.44 T	0.00 6
	MIN	-0.02	10.69	4	-0.01	4.45	4		
		0.00	10.69	6	0.00	0.00	5	10.77 T	10.69 5

***** END OF FORCE ENVELOPE FROM INTERNAL STORAGE *****

951. *HORIZ BRACE AT C-C \$ D-D

952. LOAD LIST 4 TO 6

953. PRINT MAXFORCE ENVELOPE LIST 52 53 56 57

CON ED L-17

-- PAGE NO. 141

MEMBER FORCE ENVELOPE

ALL UNITS ARE KIP FEET

MAX AND MIN FORCE VALUES AMONGST ALL SECTION LOCATIONS

MEMB	FY/ FZ	DIST	LD	MZ/ MY	DIST	LD	FX	DIST	LD
52 MAX	0.00	0.00	4	0.00	0.00	4			
	0.00	0.00	4	0.00	0.00	4	0.00	0.00	4
MIN	0.00	17.68	6	0.00	17.68	6			
	0.00	17.68	6	0.00	17.68	6	0.00	17.68	6
53 MAX	0.00	0.00	4	0.00	0.00	4			
	0.00	0.00	4	0.00	0.00	4	0.00	0.00	4
MIN	0.00	17.68	6	0.00	17.68	6			
	0.00	17.68	6	0.00	17.68	6	0.00	17.68	6
56 MAX	0.00	0.00	4	0.00	0.00	4			
	0.00	0.00	4	0.00	0.00	4	0.00	0.00	4
MIN	0.00	28.27	6	0.00	28.27	6			
	0.00	28.27	6	0.00	28.27	6	0.00	28.27	6
57 MAX	0.00	0.00	4	0.00	0.00	4			
	0.00	0.00	4	0.00	0.00	4	0.00	0.00	4
MIN	0.00	28.27	6	0.00	28.27	6			
	0.00	28.27	6	0.00	28.27	6	0.00	28.27	6

***** END OF FORCE ENVELOPE FROM INTERNAL STORAGE *****

954. LOAD LIST 4 TO 6

955. PRINT MAXFORCE ENVELOPE LIST 1 TO 8

CON ED L-17

-- PAGE NO. 142

MEMBER FORCE ENVELOPE

ALL UNITS ARE KIP FEET

MAX AND MIN FORCE VALUES AMONGST ALL SECTION LOCATIONS

MEMB	FY/ FZ	DIST	LD	MZ/ MY	DIST	LD	FX	DIST	LD
1 MAX	0.01	0.00	4	0.02	0.00	4			
	0.00	0.00	4	0.01	0.00	5	0.30 C	0.00	5
MIN	-0.01	7.39	4	-0.01	3.70	4			
	0.00	7.39	5	-0.02	7.39	5	0.04 T	7.39	6
2 MAX	0.01	0.00	4	0.02	7.39	4			
	0.00	0.00	5	0.01	7.39	6	0.73 C	0.00	5
MIN	-0.01	7.39	4	-0.01	3.08	4			
	0.00	7.39	4	-0.02	0.00	5	0.04 C	7.39	6
3 MAX	0.02	0.00	4	0.04	11.03	4			
	0.00	0.00	5	0.01	11.03	5	0.28 T	0.00	5
MIN	-0.02	11.03	4	-0.02	5.52	4			
	0.00	11.03	6	-0.02	0.00	5	1.46 T	11.03	6
4 MAX	0.02	0.00	4	0.04	11.03	4			
	0.00	0.00	6	0.02	0.00	5	0.18 C	0.00	5
MIN	-0.02	11.03	4	-0.02	5.52	4			
	0.00	11.03	5	-0.01	11.03	5	0.83 T	11.03	6
5 MAX	0.02	0.00	4	0.04	11.03	4			
	0.00	0.00	5	0.02	11.03	5	2.24 C	0.00	5
MIN	-0.02	11.03	4	-0.02	5.52	4			
	0.00	11.03	6	-0.01	0.00	5	1.70 C	11.03	6
6 MAX	0.02	0.00	4	0.04	11.03	4			
	0.00	0.00	6	0.01	0.00	5	2.71 C	0.00	5
MIN	-0.02	11.03	4	-0.02	5.52	4			
	0.00	11.03	5	-0.02	11.03	5	2.29 C	11.03	4
7 MAX	0.01	0.00	4	0.02	0.00	4			
	0.00	0.00	6	0.01	0.00	5	1.59 C	0.00	5
MIN	-0.01	7.39	4	-0.01	3.70	4			
	0.00	7.39	5	0.00	7.39	5	1.12 C	7.39	6
8 MAX	0.01	0.00	4	0.02	0.00	4			
	0.00	0.00	5	0.00	7.39	5	1.06 C	0.00	5
MIN	-0.01	7.39	4	-0.01	3.70	4			
	0.00	7.39	6	-0.01	0.00	5	0.59 C	7.39	6

CON ED L-17

-- PAGE NO. 143

***** END OF FORCE ENVELOPE FROM INTERNAL STORAGE *****

956. FINISH

***** END OF STAAD-III *****

**** DATE= AUG 22,2000 TIME= 14: 7: 1 ****

* For questions on STAAD/Pro, please contact : *
* Research Engineers by email : support@reiusa.com *
* US West Coast: Ph-(714) 974-2500, Fax-(714) 974-4771 *
* US East Coast: Ph-(781) 890-7677 Fax-(781) 895-1117 *

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*          *
*  STAAD.Pro          *
*  Version 2001  Build 1005      *
*  Proprietary Program of        *
*  RESEARCH ENGINEERS, Intl.    *
*  Date= DEC 17, 2008          *
*  Time= 9:46: 5              *
*          *
*  USER ID: Tectonic Engineering & Surveying *
*****

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1. STAAD SPACE CON ED L-17
2. START JOB INFORMATION
3. ENGINEER DATE 16-DEC-08
4. END JOB INFORMATION
5. INPUT WIDTH 72
6. SET NL 6
7. UNIT FEET KIP
8. JOINT COORDINATES
9. 61 2.5 76 9.833; 62 2.5 76 0; 63 2.5 76 -9.833; 64 2.5 81 8.978
10. 65 2.5 81 0; 66 2.5 81 -8.978; 81 -2.5 76 9.833; 82 -2.5 76 0
11. 83 -2.5 76 -9.833; 84 -2.5 81 8.978; 85 -2.5 81 0; 86 -2.5 81 -8.978
12. 100 -12.001 5 -12.001; 101 -11.065 12 -11.065; 102 -9.995 20 -9.995
13. 103 -8.123 34 -8.123; 104 -6.25 48 -6.25; 105 -5.112 56.5 -8.99
14. 106 -3.973 65 -11.73; 107 -3.237 70.5 -13.504; 108 -2.5 76 -15.277
15. 109 -2.5 81 -16.888; 110 0 86 -18.5; 111 -13.071 -3 -13.071
16. 112 -15.344 -20 -15.344; 200 12.001 5 -12.001; 201 11.065 12 -11.065
17. 202 9.995 20 -9.995; 203 8.123 34 -8.123; 204 6.25 48 -6.25
18. 205 5.112 56.5 -8.99; 206 3.973 65 -11.73; 207 3.237 70.5 -13.504
19. 208 2.5 76 -15.277; 209 2.5 81 -16.888; 211 13.071 -3 -13.071
20. 212 15.344 -20 -15.344; 300 12.001 5 12.001; 301 11.065 12 11.065
21. 302 9.995 20 9.995; 303 8.123 34 8.123; 304 6.25 48 6.25
22. 305 5.112 56.5 8.99; 306 3.973 65 11.73; 307 3.237 70.5 13.504
23. 308 2.5 76 15.277; 309 2.5 81 16.888; 310 0 86 18.5
24. 311 13.071 -3 13.071; 312 15.344 -20 15.344; 400 -12.001 5 12.001
25. 401 -11.065 12 11.065; 402 -9.995 20 9.995; 403 -8.123 34 8.123
26. 404 -6.25 48 6.25; 405 -5.112 56.5 8.99; 406 -3.973 65 11.73
27. 407 -3.237 70.5 13.504; 408 -2.5 76 15.277; 409 -2.5 81 16.888
28. 411 -13.071 -3 13.071; 412 -15.344 -20 15.344; 500 0 5 -12.001
29. 501 0 10 -11.33; 511 0 -5 -13.472; 600 12.001 5 0; 601 11.33 10 0
30. 605 5.491 53.667 0; 611 13.472 -5 0; 700 0 5 12.001; 701 0 10 11.33
31. 711 0 -5 13.472; 800 -12.001 5 0; 801 -11.33 10 0; 805 -5.491 53.667 0
32. 811 -13.472 -5 0; 1000 0 76 -26; 1001 0 76 26; 1003 0 76 -9.833
33. 1004 0 76 9.833
34. MEMBER INCIDENCES
35. 1 108 63; 2 83 208; 3 83 62; 4 63 82; 5 82 61; 6 62 81; 7 81 308
36. 8 61 408; 9 81 1004; 10 83 1003; 11 82 62; 13 86 209; 14 86 66
37. 15 86 65; 17 85 65; 19 65 84; 20 84 64; 21 605 206; 22 605 306

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L-17.txt

38. 23 66 110; 24 64 310; 28 85 82; 29 65 62; 30 805 306; 31 605 406
39. 32 805 206; 33 605 106; 34 1003 86; 35 1003 66; 36 1004 84; 37 1004 64
40. 38 1003 108; 39 1003 208; 40 1004 308; 41 805 106; 42 805 406
41. 43 86 110; 44 84 310; 52 404 204; 53 104 304; 54 403 203; 55 103 303

CON ED L-17

-- PAGE NO. 2

42. 56 102 302; 57 202 402; 58 84 309; 61 61 64; 63 63 66; 70 206 83
43. 71 106 63; 72 107 83; 73 407 81; 74 805 405; 75 805 105; 76 605 305
44. 77 605 205; 78 406 61; 79 306 81; 81 81 84; 83 83 86; 90 801 501
45. 91 501 601; 92 601 701; 93 701 801; 94 501 701; 100 100 101
46. 101 101 102; 102 102 103; 103 103 104; 104 104 105; 105 105 106
47. 106 106 107; 107 107 108; 108 108 109; 109 109 110; 111 111 100
48. 112 112 111; 141 1004 408; 142 805 205; 143 605 105; 144 805 305
49. 145 605 405; 146 805 204; 147 605 104; 148 805 304; 149 605 404
50. 150 307 61; 151 61 407; 152 207 63; 153 83 207; 154 701 501
51. 200 200 201; 201 201 202; 202 202 203; 203 203 204; 204 204 205
52. 205 205 206; 206 206 207; 207 207 208; 208 208 209; 209 209 110
53. 211 211 200; 212 212 211; 261 61 309; 262 62 64; 263 63 65; 264 64 308
54. 265 65 61; 266 66 62; 300 300 301; 301 301 302; 302 302 303
55. 303 303 304; 304 304 305; 305 305 306; 306 306 307; 307 307 308
56. 308 308 309; 309 309 310; 311 311 300; 312 312 311; 400 400 401
57. 401 401 402; 402 402 403; 403 403 404; 404 404 405; 405 405 406
58. 406 406 407; 407 407 408; 408 408 409; 409 409 310; 411 411 400
59. 412 412 411; 481 81 409; 482 82 84; 483 83 85; 484 84 408; 485 85 81
60. 486 86 82; 500 500 511; 600 600 611; 661 61 308; 662 62 61; 663 63 62
61. 664 64 309; 665 65 64; 666 66 65; 700 700 711; 800 800 811; 881 81 408
62. 882 82 81; 883 83 82; 884 84 409; 885 85 84; 886 86 85; 1001 1000 108
63. 1002 1000 208; 1003 1000 109; 1004 1000 209; 1005 1001 408
64. 1006 1001 308; 1007 1001 409; 1008 1001 309; 1100 100 501; 1101 501 102
65. 1102 102 203; 1103 103 204; 1104 104 205; 1105 105 206; 1106 106 207
66. 1107 107 208; 1108 108 209; 1111 111 511; 1112 112 511; 1200 200 501
67. 1201 501 202; 1202 202 103; 1203 203 104; 1204 204 105; 1205 205 106
68. 1206 206 107; 1207 207 108; 1208 208 109; 1211 211 511; 1212 212 511
69. 2104 204 605; 2106 206 63; 2200 200 601; 2201 601 202; 2202 202 303
70. 2203 203 304; 2208 208 66; 2209 209 63; 2211 211 611; 2212 212 611
71. 2300 300 601; 2301 601 302; 2302 302 203; 2303 303 204; 2311 311 611
72. 2312 312 611; 2404 304 605; 2406 306 61; 3300 300 701; 3301 701 302
73. 3302 302 403; 3303 303 404; 3304 304 405; 3305 305 406; 3306 306 407
74. 3307 307 408; 3308 308 409; 3311 311 711; 3312 312 711; 3400 400 701
75. 3401 701 402; 3402 402 303; 3403 403 304; 3404 404 305; 3405 405 306
76. 3406 406 307; 3407 407 308; 3408 408 309; 3411 411 711; 3412 412 711
77. 4100 100 801; 4101 801 102; 4102 102 403; 4103 103 404; 4104 104 805
78. 4106 106 83; 4108 108 86; 4109 109 83; 4111 111 811; 4112 112 811
79. 4400 400 801; 4401 801 402; 4402 402 103; 4403 403 104; 4404 404 805
80. 4406 406 81; 4411 411 811; 4412 412 811; 5100 100 500; 5101 101 501
81. 5102 102 202; 5103 103 203; 5104 104 204; 5106 106 206; 5108 108 208
82. 5109 109 209; 5500 500 200; 5501 501 201; 6200 200 600; 6201 201 601
83. 6202 202 302; 6203 203 303; 6204 204 304; 6208 208 63; 6209 209 66
84. 6600 600 300; 6601 601 301; 7300 300 700; 7301 301 701; 7302 302 402
85. 7303 303 403; 7304 304 404; 7306 306 406; 7308 308 408; 7309 309 409
86. 7700 700 400; 7701 701 401; 8108 108 83; 8109 109 86; 8400 400 800
87. 8401 401 801; 8402 402 102; 8403 403 103; 8404 404 104; 8800 800 100
88. 8801 801 101; 8802 1003 63; 8803 1004 61; 11100 100 511; 11200 200 511
89. 12200 200 611; 12300 300 611; 13300 300 711; 13400 400 711
90. 14100 100 811; 14400 400 811; 14401 800 500; 14402 500 600

L-17.txt

91. 14403 600 700; 14404 800 700; 14405 700 500; 14406 811 511
92. 14407 511 611; 14408 611 711; 14409 711 811; 14410 511 711
93. *HORIZ
94. *VERTICAL
95. *1009 1002 1003; 1010 1002 1004
96. START USER TABLE
97. TABLE 1

□ CON ED L-17

-- PAGE NO. 3

98. UNIT INCHES KIP
99. ANGLE
100. L1751752
101. 1.75 1.75 0.125 0.343 0 0
102. L1751753
103. 1.75 1.75 0.125 0.537 0 0
104. L1751754
105. 1.75 1.75 0.333 0.772 0 0
106. END
107. UNIT INCHES KIP
108. MEMBER PROPERTY AMERICAN
109. *LEGS
110. 100 200 300 400 TABLE ST L50506
111. 101 201 301 401 TABLE ST L50506
112. 102 202 302 402 TABLE ST L40406
113. 103 203 303 403 TABLE ST L40406
114. 104 204 304 404 TABLE ST L40405
115. 105 205 305 405 TABLE ST L40405
116. 106 206 306 406 TABLE ST L40405
117. 107 207 307 407 TABLE ST L40405
118. 108 208 308 408 TABLE ST L40405
119. 109 209 309 409 TABLE ST L40405
120. *DIAGONALS FACE 100-200 & 400-300
121. 1100 1200 3300 3400 TABLE ST L30303
122. 1101 1201 3301 3401 TABLE ST L30303
123. 1102 1202 3302 3402 TABLE ST L25253
124. 1103 1203 3303 3403 TABLE ST L25253
125. 1104 1204 3304 3404 TABLE ST L25253
126. 1105 1205 3305 3405 TABLE ST L25253
127. 1106 1206 3306 3406 UPTABLE 1 L1751753
128. 1107 1207 3307 3407 UPTABLE 1 L1751753
129. 1108 1208 3308 3408 TABLE ST L20203
130. *DIAGONALS FACE 100-400 & 200-300
131. 2200 2300 4100 4400 TABLE ST L30303
132. 2201 2301 4101 4401 TABLE ST L30303
133. 2202 2302 4102 4402 TABLE ST L25253
134. 2203 2303 4103 4403 TABLE ST L25253
135. *
136. 2104 2404 4104 4404 TABLE ST L35354
137. 21 22 41 42 TABLE ST L35354
138. 2106 2406 4106 4406 TABLE ST L35354
139. 61 63 81 83 TABLE ST L25253
140. 23 24 43 44 TABLE ST L35354
141. *
142. *FACE 100 -400 & 200-300 LEVEL 108 MEMBERS
143. 2208 4108 TABLE ST L25253

144. 263 483 TABLE ST L25253
 145. 262 482 TABLE ST L25253
 146. 261 481 TABLE ST L25253
 147. 2209 4109 TABLE ST L25253
 148. 266 486 TABLE ST L25253
 149. 265 485 TABLE ST L25253
 150. 264 484 TABLE ST L25253
 151. *
 152. *HORIZONTAL
 153. *FACE 100- 200 & FACE 300-400 HORIZ
 CON ED L-17 -- PAGE NO. 4

154. 5101 7301 TABLE ST L30303
 155. 5501 7701 TABLE ST L30303
 156. * *
 157. 5102 7302 TABLE ST L40304
 158. 5103 7303 TABLE ST L40304
 159. 5104 7304 TABLE ST L40304
 160. *
 161. 5106 7306 TABLE ST L20203
 162. 5108 7308 TABLE ST L20203
 163. 5109 7309 UPTABLE 1 L1751753
 164. *5110 7310 UPTABLE 1 L1751753
 165. *5111 7311 UPTABLE 1 L1751753
 166. *FACE 100-400 & 200-300 HPRIZ
 167. 6201 8401 TABLE ST L30303
 168. 6601 8801 TABLE ST L30303
 169. * *
 170. 6202 8402 TABLE ST L40304
 171. 6203 8403 TABLE ST L40304
 172. 6204 8404 TABLE ST L40304
 173. * *
 174. 6208 8108 TABLE ST L40404
 175. 663 883 TABLE ST L40404
 176. 662 882 TABLE ST L40404
 177. 661 881 TABLE ST L40404
 178. 6209 8109 TABLE ST L40404
 179. 666 886 TABLE ST L40404
 180. 665 885 TABLE ST L40404
 181. 664 884 TABLE ST L40404
 182. *6210
 183. *8110 UPTABLE 1 L1751753
 184. *6310 UPTABLE 1 L1751753
 185. *8410
 186. *ARM MEMBERS
 187. 1001 1005 TABLE ST L40404
 188. 1002 1006 TABLE ST L40404
 189. *1003 1007 UPTABLE 1 L1751754
 190. *1004 1008 UPTABLE 1 L1751754
 191. 1003 1007 TABLE ST L20203
 192. 1004 1008 TABLE ST L20203
 193. *MID WIRE
 194. *1009 1010 PRIS .115 0 0 0 0 0 0 0
 195. *DUMMY
 196. *PLAN 108

197. 14401 TO 14410 TABLE ST L20203
 198. 1 TABLE ST L20203
 199. 2 TABLE ST L20203
 200. 3 TABLE ST L25203
 201. 4 TABLE ST L25203
 202. 5 TABLE ST L25203
 203. 6 TABLE ST L25203
 204. 7 TABLE ST L20203
 205. 8 TABLE ST L20203
 206. 9 TABLE ST L30304
 207. 10 TABLE ST L30304
 208. 11 TABLE SD L25254
 209. 8802 TABLE ST L30304
 □ CON ED L-17

-- PAGE NO. 5

210. 8803 TABLE ST L30304
 211. *PLAN 109
 212. 13 TABLE ST L30303
 213. 14 TABLE ST L20203
 214. 15 TABLE ST L30303
 215. 17 UPTABLE 1 L1751753
 216. 19 TABLE ST L30303
 217. 20 TABLE ST L20203
 218. 58 TABLE ST L30303
 219. *
 220. *VERTICAL PLAN
 221. 28 TABLE ST L20203
 222. 29 TABLE ST L20203
 223. *
 224. 30 TO 33 TABLE ST L20203
 225. 34 TO 37 TABLE ST L20203
 226. 38 TO 40 141 UPTABLE 1 L1751752
 227. *
 228. 52 TO 57 TABLE ST L20203
 229. 90 TO 94 TABLE ST L20203
 230. 142 TO 145 UPTABLE 1 L1751752
 231. 146 TO 149 UPTABLE 1 L1751752
 232. 70 TO 79 UPTABLE 1 L1751752
 233. 150 TO 154 UPTABLE 1 L1751752
 234. *L17EXT
 235. 112 TABLE ST L50506
 236. 111 TABLE ST L50506
 237. 212 TABLE ST L50506
 238. 211 TABLE ST L50506
 239. 312 TABLE ST L50506
 240. 311 TABLE ST L50506
 241. 412 TABLE ST L50506
 242. 411 TABLE ST L50506
 243. *
 244. 1112 TABLE ST L30303
 245. 1212 TABLE ST L30303
 246. 2212 TABLE ST L30303
 247. 2312 TABLE ST L30303
 248. 3312 TABLE ST L30303
 249. 3412 TABLE ST L30303

250. 4412 TABLE ST L30303
 251. 4112 TABLE ST L30303
 252. *
 253. 1111 TABLE ST L35304
 254. 1211 TABLE ST L35304
 255. 2211 TABLE ST L35304
 256. 2311 TABLE ST L35304
 257. 3311 TABLE ST L35304
 258. 3411 TABLE ST L35304
 259. 4411 TABLE ST L35304
 260. 4111 TABLE ST L35304
 261. *
 262. 11100 TABLE ST L35304
 263. 11200 TABLE ST L35304
 264. 12200 TABLE ST L35304
 265. 12300 TABLE ST L35304

CON ED L-17

-- PAGE NO. 6

266. 13300 TABLE ST L35304
 267. 13400 TABLE ST L35304
 268. 14400 TABLE ST L35304
 269. 14100 TABLE ST L35304
 270. *
 271. *HORIZ
 272. 5100 TABLE SD L30254
 273. 5500 TABLE SD L30254
 274. 6200 TABLE SD L30254
 275. 6600 TABLE SD L30254
 276. 7300 TABLE SD L30254
 277. 7700 TABLE SD L30254
 278. 8400 TABLE SD L30254
 279. 8800 TABLE SD L30254
 280. *
 281. *VERTICAL
 282. 800 TABLE ST L35304
 283. 600 TABLE ST L35304
 284. 700 TABLE ST L35304
 285. 500 TABLE ST L35304
 286. SUPPORTS
 287. 112 212 312 412 PINNED
 288. *
 289. CONSTANTS
 290. E STEEL MEMB 1 TO 11 13 TO 15 17 19 TO 24 28 TO 44 52 TO 58 61 63 -
 291. 70 TO 79 81 83 90 TO 94 100 TO 109 111 112 141 TO 154 200 TO 209 -
 292. 211 212 261 TO 266 300 TO 309 311 312 400 TO 409 411 412 481 TO 486 -
 293. 500 600 661 TO 666 700 800 881 TO 886 1001 TO 1008 1100 TO 1108 1111 -
 294. 1112 1200 TO 1208 1211 1212 2104 2106 2200 TO 2203 2208 2209 2211 -
 295. 2212 2300 TO 2303 2311 2312 2404 2406 3300 TO 3308 3311 3312 3400 -
 296. 3401 TO 3408 3411 3412 4100 TO 4104 4106 4108 4109 4111 4112 4400 -
 297. 4401 TO 4404 4406 4411 4412 5100 TO 5104 5106 5108 5109 5500 5501 -
 298. 6200 TO 6204 6208 6209 6600 6601 7300 TO 7304 7306 7308 7309 7700 -
 299. 7701 8108 8109 8400 TO 8404 8800 TO 8803 11100 11200 12200 12300 -
 300. 13300 13400 14100 14400 TO 14410
 301. DENSITY STEEL MEMB 1 TO 11 13 TO 15 17 19 TO 24 28 TO 44 52 TO 58 -
 302. 61 63 70 TO 79 81 83 90 TO 94 100 TO 109 111 112 141 TO 154 -

L-17.txt

303. 200 TO 209 211 212 261 TO 266 300 TO 309 311 312 400 TO 409 411 412 -
 304. 481 TO 486 500 600 661 TO 666 700 800 881 TO 886 1001 TO 1008 1100 -
 305. 1101 TO 1108 1111 1112 1200 TO 1208 1211 1212 2104 2106 2200 TO 2203 -
 306. 2208 2209 2211 2212 2300 TO 2303 2311 2312 2404 2406 3300 TO 3308 -
 307. 3311 3312 3400 TO 3408 3411 3412 4100 TO 4104 4106 4108 4109 4111 -
 308. 4112 4400 TO 4404 4406 4411 4412 5100 TO 5104 5106 5108 5109 5500 -
 309. 5501 6200 TO 6204 6208 6209 6600 6601 7300 TO 7304 7306 7308 7309 -
 310. 7700 7701 8108 8109 8400 TO 8404 8800 TO 8803 11100 11200 12200 12300 -
 311. 13300 13400 14100 14400 TO 14410
 312. POISSON STEEL MEMB 1 TO 11 13 TO 15 17 19 TO 24 28 TO 44 52 TO 58 -
 313. 61 63 70 TO 79 81 83 90 TO 94 100 TO 109 111 112 141 TO 154 -
 314. 200 TO 209 211 212 261 TO 266 300 TO 309 311 312 400 TO 409 411 412 -
 315. 481 TO 486 500 600 661 TO 666 700 800 881 TO 886 1001 TO 1008 1100 -
 316. 1101 TO 1108 1111 1112 1200 TO 1208 1211 1212 2104 2106 2200 TO 2203 -
 317. 2208 2209 2211 2212 2300 TO 2303 2311 2312 2404 2406 3300 TO 3308 -
 318. 3311 3312 3400 TO 3408 3411 3412 4100 TO 4104 4106 4108 4109 4111 -
 319. 4112 4400 TO 4404 4406 4411 4412 5100 TO 5104 5106 5108 5109 5500 -
 320. 5501 6200 TO 6204 6208 6209 6600 6601 7300 TO 7304 7306 7308 7309 -
 321. 7700 7701 8108 8109 8400 TO 8404 8800 TO 8803 11100 11200 12200 12300 -

CON ED L-17

-- PAGE NO. 7

322. 13300 13400 14100 14400 TO 14410
 323. *
 324. *
 325. MEMBER TRUSS
 326. 1100 1200 3300 3400
 327. MEMBER TRUSS
 328. 2200 2300 4100 4400
 329. MEMBER TRUSS
 330. 1101 1201 3301 3401
 331. MEMBER TRUSS
 332. 2201 2301 4101 4401
 333. MEMBER TRUSS
 334. 1102 1202 3302 3402
 335. MEMBER TRUSS
 336. 1103 1203 3303 3403
 337. MEMBER TRUSS
 338. 2202 2302 4102 4402
 339. MEMBER TRUSS
 340. 2203 2303 4103 4403
 341. MEMBER TRUSS
 342. 52 53 56 57
 343. *
 344. MEMBER TRUSS
 345. 1112 1212 2212 2312 3312 3412 4112 4412
 346. MEMBER TRUSS
 347. 11100 11200 12200 12300 13300 13400 14100 14400
 348. *
 349. UNIT FEET KIP
 350. MEMBER TENSION
 351. 1100 1200 3300 3400
 352. MEMBER TENSION
 353. 1101 1201 3301 3401
 354. MEMBER TENSION
 355. 2200 2300 4100 4400

356. MEMBER TENSION
 357. 2201 2301 4101 4401
 358. MEMBER TENSION
 359. 1102 1202 3302 3402
 360. MEMBER TENSION
 361. 1103 1203 3303 3403
 362. MEMBER TENSION
 363. 2202 2302 4102 4402
 364. MEMBER TENSION
 365. 2203 2303 4103 4403
 366. MEMBER TENSION
 367. 52 53 56 57
 368. MEMBER TENSION
 369. 1112 1212 2212 2312 3312 3412 4112 4412
 370. MEMBER TENSION
 371. 11100 11200 12200 12300 13300 13400 14100 14400
 372. *
 373. LOAD 1 / CONED STANDARD / DIRECTION A
 **WARNING- MEMBERS 154 94 BETWEEN SAME JOINTS.
 374. SELFWEIGHT Y -1.397
 375. * WIND ON TOWER
 376. JOINT LOAD
 1 CON ED L-17

-- PAGE NO. 8

377. 110 310 FZ 0.12
 378. 108 208 308 408 FZ 0.21
 379. 106 206 306 406 FZ 0.25
 380. 104 204 304 404 FZ 0.32
 381. 103 203 303 403 FZ 0.33
 382. 102 202 302 402 FZ 0.39
 383. 100 200 300 400 FZ 0.57
 384. 112 212 312 412 FZ 0.34
 385. *
 386. *JOINT LOAD
 387. 110 310 FY -2.74 FZ 2.18
 388. 1000 1001 FY -8.39 FZ 3.57
 389. 1003 FY -5.98 FZ 5.98
 390. 1004 FY -2.411 FZ -2.411
 391. *
 392. *WIND ON ANTENNA
 393. 65 85 109 209 309 409 FY -0.116 FZ 0.096
 394. 62 82 108 208 308 408 FY -0.116 FZ 0.096
 395. *CABLES LEG 100 & 400 & 300
 396. 109 309 409 FY -0.061 FZ 0.082
 397. 108 308 408 FY -0.061 FZ 0.082
 398. 106 306 406 FY -0.061 FZ 0.082
 399. 104 304 404 FY -0.061 FZ 0.082
 400. 103 303 403 FY -0.061 FZ 0.082
 401. 102 302 402 FY -0.061 FZ 0.082
 402. 100 300 400 FY -0.061 FZ 0.082
 403. PERFORM ANALYSIS

1.

 NUMBER OF JOINTS/MEMBER+ELEMENTS/SUPPORTS = 80/ 300/ 4
 ORIGINAL/FINAL BAND-WIDTH= 79/ 18/ 114 DOF
 TOTAL PRIMARY LOAD CASES = 1, TOTAL DEGREES OF FREEDOM = 468
 SIZE OF STIFFNESS MATRIX = 54 DOUBLE KILO-WORDS
 REQ'D/AVAIL. DISK SPACE = 13.0/ 1380.2 MB, EXMEM = 4096.0 MB

□

++ Processing Element Stiffness Matrix.	9:46: 5
++ Processing Global Stiffness Matrix.	9:46: 5
++ Processing Triangular Factorization.	9:46: 5
++ Calculating Joint Displacements.	9:46: 5
++ Processing Element Stiffness Matrix.	9:46: 5
++ Processing Global Stiffness Matrix.	9:46: 5
++ Processing Triangular Factorization.	9:46: 5
++ Calculating Joint Displacements.	9:46: 5
++ Processing Element Stiffness Matrix.	9:46: 5
++ Processing Global Stiffness Matrix.	9:46: 5
++ Processing Triangular Factorization.	9:46: 5
++ Calculating Joint Displacements.	9:46: 5
++ Calculating Member Forces.	9:46: 5

□ CON ED L-17

-- PAGE NO. 9

404. CHANGE
 405. MEMBER TENSION
 406. 1100 1200 3300 3400
 407. MEMBER TENSION
 408. 1101 1201 3301 3401
 409. MEMBER TENSION
 410. 2200 2300 4100 4400
 411. MEMBER TENSION
 412. 2201 2301 4101 4401
 413. MEMBER TENSION
 414. 1102 1202 3302 3402
 415. MEMBER TENSION
 416. 1103 1203 3303 3403
 417. MEMBER TENSION
 418. 2202 2302 4102 4402
 419. MEMBER TENSION
 420. 2203 2303 4103 4403
 421. MEMBER TENSION
 422. 52 53 56 57
 423. MEMBER TENSION
 424. 1112 1212 2212 2312 3312 3412 4112 4412
 425. MEMBER TENSION
 426. 11100 11200 12200 12300 13300 13400 14100 14400
 427. LOAD 2 /CON ED EMERGENCY ICE /DIRECTION A
 428. SELFWEIGHT Y -1.1
 429. * WIND ON TOWER
 430. JOINT LOAD
 431. 110 310 FZ 0.07
 432. 108 208 308 408 FZ 0.13

433. 106 206 306 406 FZ 0.15
 434. 104 204 304 404 FZ 0.19
 435. 103 203 303 403 FZ 0.2
 436. 102 202 302 402 FZ 0.24
 437. 100 200 300 400 FZ 0.34
 438. 112 212 312 412 FZ 0.21
 439. *
 440. *JOINT LOAD
 441. 110 310 FY -4.28 FZ 2.71
 442. 1000 1001 FY -9.91 FZ 3.8
 443. 1003 FY -6.857 FZ 6.857
 444. 1004 FY -3.057 FZ -3.057
 445. *WIND ON ANTENNA
 446. 65 85 109 209 309 409 FY -0.033 FZ 0.021
 447. 62 82 108 208 308 408 FY -0.033 FZ 0.021
 448. *CABLES LEG 100 & 400 & 300
 449. 109 309 409 FY -0.074 FZ 0.076
 450. 108 308 408 FY -0.074 FZ 0.076
 451. 106 306 406 FY -0.074 FZ 0.076
 452. 104 304 404 FY -0.074 FZ 0.076
 453. 103 303 403 FY -0.074 FZ 0.076
 454. 102 302 402 FY -0.074 FZ 0.076
 455. 100 300 400 FY -0.074 FZ 0.076
 456. *
 457. PERFORM ANALYSIS

□ CON ED L-17

-- PAGE NO. 10

++ Processing Element Stiffness Matrix.	9:46: 6
++ Processing Global Stiffness Matrix.	9:46: 6
++ Processing Triangular Factorization.	9:46: 6
++ Calculating Joint Displacements.	9:46: 6
++ Processing Element Stiffness Matrix.	9:46: 6
++ Processing Global Stiffness Matrix.	9:46: 6
++ Processing Triangular Factorization.	9:46: 6
++ Calculating Joint Displacements.	9:46: 6
++ Processing Element Stiffness Matrix.	9:46: 6
++ Processing Global Stiffness Matrix.	9:46: 6
++ Processing Triangular Factorization.	9:46: 6
++ Calculating Joint Displacements.	9:46: 6
++ Calculating Member Forces.	9:46: 6

458. PERFORM ANALYSIS

++ Processing Element Stiffness Matrix.	9:46: 6
++ Processing Global Stiffness Matrix.	9:46: 6
++ Processing Triangular Factorization.	9:46: 6
++ Calculating Joint Displacements.	9:46: 6
++ Processing Element Stiffness Matrix.	9:46: 6
++ Processing Global Stiffness Matrix.	9:46: 6
++ Processing Triangular Factorization.	9:46: 6
++ Calculating Joint Displacements.	9:46: 6
++ Processing Element Stiffness Matrix.	9:46: 6
++ Processing Global Stiffness Matrix.	9:46: 6
++ Processing Triangular Factorization.	9:46: 6
++ Calculating Joint Displacements.	9:46: 6

++ Calculating Member Forces. 9:46: 6

459. PERFORM ANALYSIS

++ Processing Element Stiffness Matrix. 9:46: 6
 ++ Processing Global Stiffness Matrix. 9:46: 6
 ++ Processing Triangular Factorization. 9:46: 6
 ++ Calculating Joint Displacements. 9:46: 6
 ++ Processing Element Stiffness Matrix. 9:46: 6
 ++ Processing Global Stiffness Matrix. 9:46: 6
 ++ Processing Triangular Factorization. 9:46: 6
 ++ Calculating Joint Displacements. 9:46: 6
 ++ Processing Element Stiffness Matrix. 9:46: 6
 ++ Processing Global Stiffness Matrix. 9:46: 6
 ++ Processing Triangular Factorization. 9:46: 6
 ++ Calculating Joint Displacements. 9:46: 6
 ++ Calculating Member Forces. 9:46: 6

460. PERFORM ANALYSIS

++ Processing Element Stiffness Matrix. 9:46: 6
 ++ Processing Global Stiffness Matrix. 9:46: 6
 ++ Processing Triangular Factorization. 9:46: 6
 ++ Calculating Joint Displacements. 9:46: 6
 CON ED L-17 -- PAGE NO. 11

++ Processing Element Stiffness Matrix. 9:46: 6
 ++ Processing Global Stiffness Matrix. 9:46: 6
 ++ Processing Triangular Factorization. 9:46: 6
 ++ Calculating Joint Displacements. 9:46: 6
 ++ Processing Element Stiffness Matrix. 9:46: 6
 ++ Processing Global Stiffness Matrix. 9:46: 6
 ++ Processing Triangular Factorization. 9:46: 6
 ++ Calculating Joint Displacements. 9:46: 6
 ++ Calculating Member Forces. 9:46: 6

461. PERFORM ANALYSIS

++ Processing Element Stiffness Matrix. 9:46: 6
 ++ Processing Global Stiffness Matrix. 9:46: 6
 ++ Processing Triangular Factorization. 9:46: 6
 ++ Calculating Joint Displacements. 9:46: 6
 ++ Processing Element Stiffness Matrix. 9:46: 6
 ++ Processing Global Stiffness Matrix. 9:46: 6
 ++ Processing Triangular Factorization. 9:46: 6
 ++ Calculating Joint Displacements. 9:46: 6
 ++ Processing Element Stiffness Matrix. 9:46: 6
 ++ Processing Global Stiffness Matrix. 9:46: 6
 ++ Processing Triangular Factorization. 9:46: 6
 ++ Calculating Joint Displacements. 9:46: 7
 ++ Calculating Member Forces. 9:46: 7

462. PERFORM ANALYSIS

++ Processing Element Stiffness Matrix. 9:46: 7

L-17.txt

++ Processing Global Stiffness Matrix.	9:46: 7
++ Processing Triangular Factorization.	9:46: 7
++ Calculating Joint Displacements.	9:46: 7
++ Processing Element Stiffness Matrix.	9:46: 7
++ Processing Global Stiffness Matrix.	9:46: 7
++ Processing Triangular Factorization.	9:46: 7
++ Calculating Joint Displacements.	9:46: 7
++ Processing Element Stiffness Matrix.	9:46: 7
++ Processing Global Stiffness Matrix.	9:46: 7
++ Processing Triangular Factorization.	9:46: 7
++ Calculating Joint Displacements.	9:46: 7
++ Calculating Member Forces.	9:46: 7

463. CHANGE

464. MEMBER TENSION

465. 1100 1200 3300 3400

466. MEMBER TENSION

467. 1101 1201 3301 3401

468. MEMBER TENSION

469. 2200 2300 4100 4400

470. MEMBER TENSION

471. 2201 2301 4101 4401

472. MEMBER TENSION

473. 1102 1202 3302 3402

474. MEMBER TENSION

475. 1103 1203 3303 3403

476. MEMBER TENSION

[] CON ED L-17

-- PAGE NO. 12

477. 2202 2302 4102 4402

478. MEMBER TENSION

479. 2203 2303 4103 4403

480. MEMBER TENSION

481. 52 53 56 57

482. MEMBER TENSION

483. 1112 1212 2212 2312 3312 3412 4112 4412

484. MEMBER TENSION

485. 11100 11200 12200 12300 13300 13400 14100 14400

486. LOAD 3 /CON-ED HURRICANE / DIRECTION A

487. SELFWEIGHT Y -1.1

488. * WIND ON TOWER

489. JOINT LOAD

490. 110 310 FZ 0.17

491. 108 208 308 408 FZ 0.32

492. 106 206 306 406 FZ 0.38

493. 104 204 304 404 FZ 0.48

494. 103 203 303 403 FZ 0.5

495. 102 202 302 402 FZ 0.59

496. 100 200 300 400 FZ 0.86

497. 112 212 312 412 FZ 0.51

498. *

499. *JOINT LOAD

500. 110 310 FY -0.85 FZ 1.98

501. 1000 1001 FY -4.04 FZ 6.37

502. 1003 FY -4.041 FZ 6.371

503. 1004 FY 0 FZ 0

504. *

505. *WIND ON ANTENNA

506. 65 85 109 209 309 409 FY -0.012 FZ 0.062

507. 62 82 108 208 308 408 FY -0.012 FZ 0.062

508. *CABLES LEG 100 & 400 & 300

509. 109 309 409 FY -0.074 FZ 0.076

510. 108 308 408 FY -0.074 FZ 0.076

511. 106 306 406 FY -0.074 FZ 0.076

512. 104 304 404 FY -0.074 FZ 0.076

513. 103 303 403 FY -0.074 FZ 0.076

514. 102 302 402 FY -0.074 FZ 0.076

515. 100 300 400 FY -0.074 FZ 0.076

516. *

517. PERFORM ANALYSIS

++ Processing Element Stiffness Matrix.	9:46: 7
++ Processing Global Stiffness Matrix.	9:46: 7
++ Processing Triangular Factorization.	9:46: 7
++ Calculating Joint Displacements.	9:46: 7
++ Processing Element Stiffness Matrix.	9:46: 7
++ Processing Global Stiffness Matrix.	9:46: 7
++ Processing Triangular Factorization.	9:46: 7
++ Calculating Joint Displacements.	9:46: 7
++ Processing Element Stiffness Matrix.	9:46: 7
++ Processing Global Stiffness Matrix.	9:46: 7
++ Processing Triangular Factorization.	9:46: 7
CON ED L-17	-- PAGE NO. 13

++ Calculating Joint Displacements.	9:46: 7
++ Calculating Member Forces.	9:46: 7

518. PERFORM ANALYSIS

++ Processing Element Stiffness Matrix.	9:46: 7
++ Processing Global Stiffness Matrix.	9:46: 7
++ Processing Triangular Factorization.	9:46: 7
++ Calculating Joint Displacements.	9:46: 7
++ Processing Element Stiffness Matrix.	9:46: 7
++ Processing Global Stiffness Matrix.	9:46: 7
++ Processing Triangular Factorization.	9:46: 7
++ Calculating Joint Displacements.	9:46: 7
++ Processing Element Stiffness Matrix.	9:46: 7
++ Processing Global Stiffness Matrix.	9:46: 7
++ Processing Triangular Factorization.	9:46: 7
++ Calculating Joint Displacements.	9:46: 7
++ Calculating Member Forces.	9:46: 7

519. PERFORM ANALYSIS

++ Processing Element Stiffness Matrix.	9:46: 7
++ Processing Global Stiffness Matrix.	9:46: 7
++ Processing Triangular Factorization.	9:46: 7
++ Calculating Joint Displacements.	9:46: 7
++ Processing Element Stiffness Matrix.	9:46: 7

++ Processing Global Stiffness Matrix.	9:46: 7
++ Processing Triangular Factorization.	9:46: 7
++ Calculating Joint Displacements.	9:46: 7
++ Processing Element Stiffness Matrix.	9:46: 7
++ Processing Global Stiffness Matrix.	9:46: 8
++ Processing Triangular Factorization.	9:46: 8
++ Calculating Joint Displacements.	9:46: 8
++ Calculating Member Forces.	9:46: 8

520. PERFORM ANALYSIS

++ Processing Element Stiffness Matrix.	9:46: 8
++ Processing Global Stiffness Matrix.	9:46: 8
++ Processing Triangular Factorization.	9:46: 8
++ Calculating Joint Displacements.	9:46: 8
++ Processing Element Stiffness Matrix.	9:46: 8
++ Processing Global Stiffness Matrix.	9:46: 8
++ Processing Triangular Factorization.	9:46: 8
++ Calculating Joint Displacements.	9:46: 8
++ Processing Element Stiffness Matrix.	9:46: 8
++ Processing Global Stiffness Matrix.	9:46: 8
++ Processing Triangular Factorization.	9:46: 8
++ Calculating Joint Displacements.	9:46: 8
++ Calculating Member Forces.	9:46: 8

521. PERFORM ANALYSIS

++ Processing Element Stiffness Matrix.	9:46: 8
++ Processing Global Stiffness Matrix.	9:46: 8
++ Processing Triangular Factorization.	9:46: 8

CON ED L-17	-- PAGE NO. 14
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++ Calculating Joint Displacements.	9:46: 8
++ Processing Element Stiffness Matrix.	9:46: 8
++ Processing Global Stiffness Matrix.	9:46: 8
++ Processing Triangular Factorization.	9:46: 8
++ Calculating Joint Displacements.	9:46: 8
++ Processing Element Stiffness Matrix.	9:46: 8
++ Processing Global Stiffness Matrix.	9:46: 8
++ Processing Triangular Factorization.	9:46: 8
++ Calculating Joint Displacements.	9:46: 8
++ Calculating Member Forces.	9:46: 8

522. PERFORM ANALYSIS

++ Processing Element Stiffness Matrix.	9:46: 8
++ Processing Global Stiffness Matrix.	9:46: 8
++ Processing Triangular Factorization.	9:46: 8
++ Calculating Joint Displacements.	9:46: 8
++ Processing Element Stiffness Matrix.	9:46: 8
++ Processing Global Stiffness Matrix.	9:46: 8
++ Processing Triangular Factorization.	9:46: 8
++ Calculating Joint Displacements.	9:46: 8
++ Processing Element Stiffness Matrix.	9:46: 8
++ Processing Global Stiffness Matrix.	9:46: 8

++ Processing Triangular Factorization. 9:46: 8
 ++ Calculating Joint Displacements. 9:46: 8
 ++ Calculating Member Forces. 9:46: 8

523. CHANGE
 524. MEMBER TENSION
 525. 1100 1200 3300 3400
 526. MEMBER TENSION
 527. 1101 1201 3301 3401
 528. MEMBER TENSION
 529. 2200 2300 4100 4400
 530. MEMBER TENSION
 531. 2201 2301 4101 4401
 532. MEMBER TENSION
 533. 1102 1202 3302 3402
 534. MEMBER TENSION
 535. 1103 1203 3303 3403
 536. MEMBER TENSION
 537. 2202 2302 4102 4402
 538. MEMBER TENSION
 539. 2203 2303 4103 4403
 540. MEMBER TENSION
 541. 52 53 56 57
 542. MEMBER TENSION
 543. 1112 1212 2212 2312 3312 3412 4112 4412
 544. MEMBER TENSION
 545. 11100 11200 12200 12300 13300 13400 14100 14400
 546. *****
 547. *EXISTING CONDITION
 548. LOAD 4 / CONED STANDARD / DIRECTION A
 549. SELFWEIGHT Y -1.397
 550. * WIND ON TOWER
 551. JOINT LOAD

CON ED L-17

-- PAGE NO. 15

552. 110 310 FZ 0.12
 553. 108 208 308 408 FZ 0.21
 554. 106 206 306 406 FZ 0.25
 555. 104 204 304 404 FZ 0.32
 556. 103 203 303 403 FZ 0.33
 557. 102 202 302 402 FZ 0.39
 558. 100 200 300 400 FZ 0.57
 559. 112 212 312 412 FZ 0.34
 560. *
 561. *JOINT LOAD
 562. 110 310 FY -2.74 FZ 2.18
 563. 1000 1001 FY -8.39 FZ 3.57
 564. 1003 FY -5.98 FZ 5.98
 565. 1004 FY -2.411 FZ -2.411
 566. PERFORM ANALYSIS

++ Processing Element Stiffness Matrix. 9:46: 8
 ++ Processing Global Stiffness Matrix. 9:46: 8
 ++ Processing Triangular Factorization. 9:46: 8
 ++ Calculating Joint Displacements. 9:46: 8

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++ Processing Element Stiffness Matrix.      9:46: 8
++ Processing Global Stiffness Matrix.        9:46: 8
++ Processing Triangular Factorization.       9:46: 8
++ Calculating Joint Displacements.           9:46: 8
++ Processing Element Stiffness Matrix.       9:46: 8
++ Processing Global Stiffness Matrix.        9:46: 8
++ Processing Triangular Factorization.       9:46: 8
++ Calculating Joint Displacements.           9:46: 8
++ Calculating Member Forces.                9:46: 8

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567. PERFORM ANALYSIS

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++ Processing Element Stiffness Matrix.      9:46: 9
++ Processing Global Stiffness Matrix.        9:46: 9
++ Processing Triangular Factorization.       9:46: 9
++ Calculating Joint Displacements.           9:46: 9
++ Processing Element Stiffness Matrix.       9:46: 9
++ Processing Global Stiffness Matrix.        9:46: 9
++ Processing Triangular Factorization.       9:46: 9
++ Calculating Joint Displacements.           9:46: 9
++ Processing Element Stiffness Matrix.       9:46: 9
++ Processing Global Stiffness Matrix.        9:46: 9
++ Processing Triangular Factorization.       9:46: 9
++ Calculating Joint Displacements.           9:46: 9
++ Calculating Member Forces.                9:46: 9

```

568. PERFORM ANALYSIS

```

++ Processing Element Stiffness Matrix.      9:46: 9
++ Processing Global Stiffness Matrix.        9:46: 9
++ Processing Triangular Factorization.       9:46: 9
++ Calculating Joint Displacements.           9:46: 9
++ Processing Element Stiffness Matrix.       9:46: 9

```

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[ ] CON ED L-17      -- PAGE NO. 16

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```

++ Processing Global Stiffness Matrix.        9:46: 9
++ Processing Triangular Factorization.       9:46: 9
++ Calculating Joint Displacements.           9:46: 9
++ Processing Element Stiffness Matrix.       9:46: 9
++ Processing Global Stiffness Matrix.        9:46: 9
++ Processing Triangular Factorization.       9:46: 9
++ Calculating Joint Displacements.           9:46: 9
++ Calculating Member Forces.                9:46: 9

```

569. PERFORM ANALYSIS

```

++ Processing Element Stiffness Matrix.      9:46: 9
++ Processing Global Stiffness Matrix.        9:46: 9
++ Processing Triangular Factorization.       9:46: 9
++ Calculating Joint Displacements.           9:46: 9
++ Processing Element Stiffness Matrix.       9:46: 9
++ Processing Global Stiffness Matrix.        9:46: 9
++ Processing Triangular Factorization.       9:46: 9
++ Calculating Joint Displacements.           9:46: 9
++ Processing Element Stiffness Matrix.       9:46: 9

```

++ Processing Global Stiffness Matrix.	9:46: 9
++ Processing Triangular Factorization.	9:46: 9
++ Calculating Joint Displacements.	9:46: 9
++ Calculating Member Forces.	9:46: 9

570. PERFORM ANALYSIS

++ Processing Element Stiffness Matrix.	9:46:10
++ Processing Global Stiffness Matrix.	9:46:10
++ Processing Triangular Factorization.	9:46:10
++ Calculating Joint Displacements.	9:46:10
++ Processing Element Stiffness Matrix.	9:46:10
++ Processing Global Stiffness Matrix.	9:46:10
++ Processing Triangular Factorization.	9:46:10
++ Calculating Joint Displacements.	9:46:10
++ Processing Element Stiffness Matrix.	9:46:10
++ Processing Global Stiffness Matrix.	9:46:10
++ Processing Triangular Factorization.	9:46:10
++ Calculating Joint Displacements.	9:46:10
++ Calculating Member Forces.	9:46:10

571. PERFORM ANALYSIS

++ Processing Element Stiffness Matrix.	9:46:10
++ Processing Global Stiffness Matrix.	9:46:10
++ Processing Triangular Factorization.	9:46:10
++ Calculating Joint Displacements.	9:46:10
++ Processing Element Stiffness Matrix.	9:46:10
++ Processing Global Stiffness Matrix.	9:46:10
++ Processing Triangular Factorization.	9:46:10
++ Calculating Joint Displacements.	9:46:10
++ Processing Element Stiffness Matrix.	9:46:10
++ Processing Global Stiffness Matrix.	9:46:10
++ Processing Triangular Factorization.	9:46:10
++ Calculating Joint Displacements.	9:46:10
++ Calculating Member Forces.	9:46:10

!! CON ED L-17

-- PAGE NO. 17

572. CHANGE

573. MEMBER TENSION

574. 1100 1200 3300 3400

575. MEMBER TENSION

576. 1101 1201 3301 3401

577. MEMBER TENSION

578. 2200 2300 4100 4400

579. MEMBER TENSION

580. 2201 2301 4101 4401

581. MEMBER TENSION

582. 1102 1202 3302 3402

583. MEMBER TENSION

584. 1103 1203 3303 3403

585. MEMBER TENSION

586. 2202 2302 4102 4402

587. MEMBER TENSION
 588. 2203 2303 4103 4403
 589. MEMBER TENSION
 590. 52 53 56 57
 591. MEMBER TENSION
 592. 1112 1212 2212 2312 3312 3412 4112 4412
 593. MEMBER TENSION
 594. 11100 11200 12200 12300 13300 13400 14100 14400
 595. *
 596. LOAD 5 /CON ED EMERGENCY ICE /DIRECTION A
 597. SELFWEIGHT Y -1.1
 598. * WIND ON TOWER
 599. JOINT LOAD
 600. 110 310 FZ 0.07
 601. 108 208 308 408 FZ 0.13
 602. 106 206 306 406 FZ 0.15
 603. 104 204 304 404 FZ 0.19
 604. 103 203 303 403 FZ 0.2
 605. 102 202 302 402 FZ 0.24
 606. 100 200 300 400 FZ 0.34
 607. 112 212 312 412 FZ 0.21
 608. *
 609. *JOINT LOAD
 610. 110 310 FY -4.28 FZ 2.71
 611. 1000 1001 FY -9.91 FZ 3.8
 612. 1003 FY -6.857 FZ 6.857
 613. 1004 FY -3.057 FZ -3.057
 614. *
 615. PERFORM ANALYSIS
 ++ Processing Element Stiffness Matrix. 9:46:10
 ++ Processing Global Stiffness Matrix. 9:46:10
 ++ Processing Triangular Factorization. 9:46:10
 ++ Calculating Joint Displacements. 9:46:10
 ++ Processing Element Stiffness Matrix. 9:46:10
 ++ Processing Global Stiffness Matrix. 9:46:10
 ++ Processing Triangular Factorization. 9:46:10
 !! CON ED L-17 -- PAGE NO. 18

++ Calculating Joint Displacements. 9:46:10
 ++ Processing Element Stiffness Matrix. 9:46:10
 ++ Processing Global Stiffness Matrix. 9:46:10
 ++ Processing Triangular Factorization. 9:46:10
 ++ Calculating Joint Displacements. 9:46:10
 ++ Calculating Member Forces. 9:46:10

616. PERFORM ANALYSIS
 ++ Processing Element Stiffness Matrix. 9:46:10
 ++ Processing Global Stiffness Matrix. 9:46:10
 ++ Processing Triangular Factorization. 9:46:10
 ++ Calculating Joint Displacements. 9:46:10
 ++ Processing Element Stiffness Matrix. 9:46:10
 ++ Processing Global Stiffness Matrix. 9:46:10
 ++ Processing Triangular Factorization. 9:46:10
 ++ Calculating Joint Displacements. 9:46:10

L-17.txt

++ Processing Element Stiffness Matrix.	9:46:10
++ Processing Global Stiffness Matrix.	9:46:10
++ Processing Triangular Factorization.	9:46:10
++ Calculating Joint Displacements.	9:46:10
++ Calculating Member Forces.	9:46:10

617. PERFORM ANALYSIS

++ Processing Element Stiffness Matrix.	9:46:11
++ Processing Global Stiffness Matrix.	9:46:11
++ Processing Triangular Factorization.	9:46:11
++ Calculating Joint Displacements.	9:46:11
++ Processing Element Stiffness Matrix.	9:46:11
++ Processing Global Stiffness Matrix.	9:46:11
++ Processing Triangular Factorization.	9:46:11
++ Calculating Joint Displacements.	9:46:11
++ Processing Element Stiffness Matrix.	9:46:11
++ Processing Global Stiffness Matrix.	9:46:11
++ Processing Triangular Factorization.	9:46:11
++ Calculating Joint Displacements.	9:46:11
++ Calculating Member Forces.	9:46:11

618. PERFORM ANALYSIS

++ Processing Element Stiffness Matrix.	9:46:11
++ Processing Global Stiffness Matrix.	9:46:11
++ Processing Triangular Factorization.	9:46:11
++ Calculating Joint Displacements.	9:46:11
++ Processing Element Stiffness Matrix.	9:46:11
++ Processing Global Stiffness Matrix.	9:46:11
++ Processing Triangular Factorization.	9:46:11
++ Calculating Joint Displacements.	9:46:11
++ Processing Element Stiffness Matrix.	9:46:11
++ Processing Global Stiffness Matrix.	9:46:11
++ Processing Triangular Factorization.	9:46:11
++ Calculating Joint Displacements.	9:46:11
++ Calculating Member Forces.	9:46:11

619. PERFORM ANALYSIS

□ CON ED L-17 -- PAGE NO. 19

++ Processing Element Stiffness Matrix.	9:46:11
++ Processing Global Stiffness Matrix.	9:46:11
++ Processing Triangular Factorization.	9:46:11
++ Calculating Joint Displacements.	9:46:11
++ Processing Element Stiffness Matrix.	9:46:11
++ Processing Global Stiffness Matrix.	9:46:11
++ Processing Triangular Factorization.	9:46:11
++ Calculating Joint Displacements.	9:46:11
++ Processing Element Stiffness Matrix.	9:46:11
++ Processing Global Stiffness Matrix.	9:46:11
++ Processing Triangular Factorization.	9:46:11
++ Calculating Joint Displacements.	9:46:11
++ Calculating Member Forces.	9:46:11

620. PERFORM ANALYSIS

++ Processing Element Stiffness Matrix.	9:46:11
++ Processing Global Stiffness Matrix.	9:46:11
++ Processing Triangular Factorization.	9:46:11
++ Calculating Joint Displacements.	9:46:11
++ Processing Element Stiffness Matrix.	9:46:11
++ Processing Global Stiffness Matrix.	9:46:11
++ Processing Triangular Factorization.	9:46:11
++ Calculating Joint Displacements.	9:46:11
++ Processing Element Stiffness Matrix.	9:46:11
++ Processing Global Stiffness Matrix.	9:46:11
++ Processing Triangular Factorization.	9:46:11
++ Calculating Joint Displacements.	9:46:11
++ Calculating Member Forces.	9:46:11

621. CHANGE

622. MEMBER TENSION

623. 1100 1200 3300 3400

624. MEMBER TENSION

625. 1101 1201 3301 3401

626. MEMBER TENSION

627. 2200 2300 4100 4400

628. MEMBER TENSION

629. 2201 2301 4101 4401

630. MEMBER TENSION

631. 1102 1202 3302 3402

632. MEMBER TENSION

633. 1103 1203 3303 3403

634. MEMBER TENSION

635. 2202 2302 4102 4402

636. MEMBER TENSION

637. 2203 2303 4103 4403

638. MEMBER TENSION

639. 52 53 56 57

640. MEMBER TENSION

641. 1112 1212 2212 2312 3312 3412 4112 4412

642. MEMBER TENSION

643. 11100 11200 12200 12300 13300 13400 14100 14400

644. LOAD 6 /CON-ED HURRICANE / DIRECTION A

645. SELFWEIGHT Y -1.1

□ CON ED L-17

-- PAGE NO. 20

646. * WIND ON TOWER

647. JOINT LOAD

648. 110 310 FZ 0.17

649. 108 208 308 408 FZ 0.32

650. 106 206 306 406 FZ 0.38

651. 104 204 304 404 FZ 0.48

652. 103 203 303 403 FZ 0.5

653. 102 202 302 402 FZ 0.59

654. 100 200 300 400 FZ 0.86

655. 112 212 312 412 FZ 0.51

656. *

657. *

658. *JOINT LOAD

659. 110 310 FY -0.85 FZ 1.98

660. 1000 1001 FY -4.04 FZ 6.37

661. 1003 FY -4.041 FZ 6.371

662. 1004 FY 0 FZ 0

663. PERFORM ANALYSIS

++ Processing Element Stiffness Matrix.	9:46:12
++ Processing Global Stiffness Matrix.	9:46:12
++ Processing Triangular Factorization.	9:46:12
++ Calculating Joint Displacements.	9:46:12
++ Processing Element Stiffness Matrix.	9:46:12
++ Processing Global Stiffness Matrix.	9:46:12
++ Processing Triangular Factorization.	9:46:12
++ Calculating Joint Displacements.	9:46:12
++ Processing Element Stiffness Matrix.	9:46:12
++ Processing Global Stiffness Matrix.	9:46:12
++ Processing Triangular Factorization.	9:46:12
++ Calculating Joint Displacements.	9:46:12
++ Calculating Member Forces.	9:46:12

664. PERFORM ANALYSIS

++ Processing Element Stiffness Matrix.	9:46:12
++ Processing Global Stiffness Matrix.	9:46:12
++ Processing Triangular Factorization.	9:46:12
++ Calculating Joint Displacements.	9:46:12
++ Processing Element Stiffness Matrix.	9:46:12
++ Processing Global Stiffness Matrix.	9:46:12
++ Processing Triangular Factorization.	9:46:12
++ Calculating Joint Displacements.	9:46:12
++ Processing Element Stiffness Matrix.	9:46:12
++ Processing Global Stiffness Matrix.	9:46:12
++ Processing Triangular Factorization.	9:46:12
++ Calculating Joint Displacements.	9:46:12
++ Calculating Member Forces.	9:46:12

665. PERFORM ANALYSIS

++ Processing Element Stiffness Matrix.	9:46:12
++ Processing Global Stiffness Matrix.	9:46:12
CON ED L-17	-- PAGE NO. 21
++ Processing Triangular Factorization.	9:46:12
++ Calculating Joint Displacements.	9:46:12
++ Processing Element Stiffness Matrix.	9:46:12
++ Processing Global Stiffness Matrix.	9:46:12
++ Processing Triangular Factorization.	9:46:12
++ Calculating Joint Displacements.	9:46:12
++ Processing Element Stiffness Matrix.	9:46:12
++ Processing Global Stiffness Matrix.	9:46:12
++ Processing Triangular Factorization.	9:46:12
++ Calculating Joint Displacements.	9:46:12
++ Calculating Member Forces.	9:46:12

666. PERFORM ANALYSIS

++ Processing Element Stiffness Matrix.	9:46:12
++ Processing Global Stiffness Matrix.	9:46:12
++ Processing Triangular Factorization.	9:46:12
++ Calculating Joint Displacements.	9:46:12
++ Processing Element Stiffness Matrix.	9:46:12
++ Processing Global Stiffness Matrix.	9:46:12
++ Processing Triangular Factorization.	9:46:12
++ Calculating Joint Displacements.	9:46:12
++ Processing Element Stiffness Matrix.	9:46:12
++ Processing Global Stiffness Matrix.	9:46:12
++ Processing Triangular Factorization.	9:46:12
++ Calculating Joint Displacements.	9:46:12
++ Calculating Member Forces.	9:46:12

667. PERFORM ANALYSIS

++ Processing Element Stiffness Matrix.	9:46:13
++ Processing Global Stiffness Matrix.	9:46:13
++ Processing Triangular Factorization.	9:46:13
++ Calculating Joint Displacements.	9:46:13
++ Processing Element Stiffness Matrix.	9:46:13
++ Processing Global Stiffness Matrix.	9:46:13
++ Processing Triangular Factorization.	9:46:13
++ Calculating Joint Displacements.	9:46:13
++ Processing Element Stiffness Matrix.	9:46:13
++ Processing Global Stiffness Matrix.	9:46:13
++ Processing Triangular Factorization.	9:46:13
++ Calculating Joint Displacements.	9:46:13
++ Calculating Member Forces.	9:46:13

668. PERFORM ANALYSIS

++ Processing Element Stiffness Matrix.	9:46:13
++ Processing Global Stiffness Matrix.	9:46:13
++ Processing Triangular Factorization.	9:46:13
++ Calculating Joint Displacements.	9:46:13
++ Processing Element Stiffness Matrix.	9:46:13
++ Processing Global Stiffness Matrix.	9:46:13
++ Processing Triangular Factorization.	9:46:13
++ Calculating Joint Displacements.	9:46:13
++ Processing Element Stiffness Matrix.	9:46:13
++ Processing Global Stiffness Matrix.	9:46:13

CON ED L-17

-- PAGE NO. 22

++ Processing Triangular Factorization.	9:46:13
++ Calculating Joint Displacements.	9:46:13
++ Calculating Member Forces.	9:46:13

669. CHANGE

670. LOAD LIST 1 TO 6

671. PRINT SUPPORT REACTION

SUPPORT REACTIONS -UNIT KIP FEET STRUCTURE TYPE = SPACE

JOINT LOAD FORCE-X FORCE-Y FORCE-Z MOM-X MOM-Y MOM-Z

112	1	-4.03	-21.27	-7.17	0.00	0.00	0.00
	2	-3.66	-19.01	-5.86	0.00	0.00	0.00
	3	-8.35	-42.38	-11.91	0.00	0.00	0.00
	4	-3.38	-17.96	-6.18	0.00	0.00	0.00
	5	-3.29	-17.10	-5.16	0.00	0.00	0.00
	6	-7.80	-39.62	-11.06	0.00	0.00	0.00
212	1	3.97	-21.00	-6.87	0.00	0.00	0.00
	2	3.61	-18.79	-5.58	0.00	0.00	0.00
	3	8.29	-42.18	-11.64	0.00	0.00	0.00
	4	3.39	-18.03	-6.19	0.00	0.00	0.00
	5	3.30	-17.18	-5.17	0.00	0.00	0.00
	6	7.81	-39.72	-11.08	0.00	0.00	0.00
312	1	-6.51	48.95	-6.86	0.00	0.00	0.00
	2	-6.36	47.76	-6.57	0.00	0.00	0.00
	3	-7.83	58.79	-8.35	0.00	0.00	0.00
	4	-5.95	44.73	-6.29	0.00	0.00	0.00
	5	-6.03	45.29	-6.24	0.00	0.00	0.00
	6	-7.41	55.59	-7.92	0.00	0.00	0.00
412	1	6.57	49.40	-6.92	0.00	0.00	0.00
	2	6.42	48.20	-6.63	0.00	0.00	0.00
	3	7.89	59.21	-8.41	0.00	0.00	0.00
	4	5.94	44.66	-6.29	0.00	0.00	0.00
	5	6.02	45.21	-6.23	0.00	0.00	0.00
	6	7.39	55.49	-7.91	0.00	0.00	0.00

***** END OF LATEST ANALYSIS RESULT *****

672. *****

673. *LEGS

674. LOAD LIST 1 TO 3

675. PRINT MAXFORCE ENVELOPE LIST 112 212 312 412

MEMBER FORCE ENVELOPE

ALL UNITS ARE KIP FEET

MAX AND MIN FORCE VALUES AMONGST ALL SECTION LOCATIONS

MEMB	FY/	DIST	LD	MZ/	DIST	LD			
	FZ	DIST	LD	MY	DIST	LD	FX	DIST	LD

112 MAX	0.02	0.00	1	0.12	17.30	1			
	0.00	0.00	3	0.04	17.30	3	14.60 T	0.00	2
MIN	-0.03	17.30	1	-0.06	5.77	1			
	0.00	17.30	1	0.00	0.00	2	33.77 T	17.30	3
212 MAX	0.02	0.00	1	0.12	17.30	1			
	0.00	0.00	1	0.00	0.00	3	14.70 T	0.00	2
MIN	-0.03	17.30	1	-0.06	5.77	1			
	0.00	17.30	3	-0.04	17.30	3	33.88 T	17.30	3
312 MAX	0.02	0.00	1	0.13	17.30	1			
	0.00	0.00	1	0.06	17.30	1	59.74 C	0.00	3
MIN	-0.03	17.30	1	-0.06	5.77	1			
	0.00	17.30	2	0.00	0.00	3	48.29 C	17.30	2
412 MAX	0.02	0.00	1	0.12	17.30	1			
	0.00	0.00	2	0.00	0.00	2	60.16 C	0.00	3
MIN	-0.03	17.30	1	-0.06	5.77	1			
	-0.01	17.30	1	-0.11	17.30	1	48.73 C	17.30	2

***** END OF FORCE ENVELOPE FROM INTERNAL STORAGE *****

676. LOAD LIST 1 TO 3

677. PRINT MAXFORCE ENVELOPE LIST 111 211 311 411

CON ED L-17 -- PAGE NO. 25

MEMBER FORCE ENVELOPE

ALL UNITS ARE KIP FEET

MAX AND MIN FORCE VALUES AMONGST ALL SECTION LOCATIONS

MEMB	FY/	DIST	LD	MZ/	DIST	LD			
	FZ	DIST	LD	MY	DIST	LD	FX	DIST	LD

111 MAX	0.02	0.00	3	0.02	8.14	1			
	-0.04	0.00	2	0.05	0.00	3	14.90 T	0.00	2
MIN	-0.02	8.14	1	-0.06	7.46	3			
	-0.06	8.14	3	-0.44	8.14	3	33.95 T	8.14	3
211 MAX	0.02	0.00	3	0.02	8.14	1			
	0.06	0.00	3	0.42	8.14	3	15.00 T	0.00	2
MIN	-0.02	8.14	1	-0.06	7.46	3			
	0.03	8.14	2	-0.05	0.00	3	34.06 T	8.14	3

L-17.txt

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311 MAX  -0.01  0.00  2   0.15  8.14  1
          -0.01  0.00  2   0.05  0.00  1  59.43 C  0.00  3
          MIN  -0.04  8.14  1   -0.06  0.00  3
              -0.02  8.14  3   -0.15  8.14  3  48.10 C  8.14  2

411 MAX  -0.01  0.00  2   0.15  8.14  1
          0.03  0.00  3   0.18  8.14  3  59.85 C  0.00  3
          MIN  -0.04  8.14  1   -0.06  0.00  3
              0.02  8.14  2   -0.09  0.00  1  48.54 C  8.14  2

```

***** END OF FORCE ENVELOPE FROM INTERNAL STORAGE *****

678. *

679. LOAD LIST 1 TO 3

680. PRINT MAXFORCE ENVELOPE LIST 100 101 200 201 300 301 400 401

CON ED L-17 -- PAGE NO. 26

MEMBER FORCE ENVELOPE

ALL UNITS ARE KIP FEET

MAX AND MIN FORCE VALUES AMONGST ALL SECTION LOCATIONS

MEMB	FY/	DIST	LD	MZ/	DIST	LD	FZ	DIST	LD	MY	DIST	LD	FX	DIST	LD
100 MAX	-0.06	0.00	2	0.44	7.12	3									
	0.26	0.00	3	1.36	7.12	3	15.07	T	0.00	2					
MIN	-0.11	7.12	3	-0.30	0.00	3									
	0.16	7.12	2	-0.46	0.00	3	34.06	T	7.12	3					
101 MAX	0.07	0.00	3	0.45	0.00	3									
	-0.15	0.00	2	1.40	0.00	3	15.18	T	0.00	2					
MIN	0.01	8.14	1	-0.01	8.14	3									
	-0.24	8.14	3	-0.54	8.14	3	34.18	T	8.14	3					
200 MAX	-0.05	0.00	2	0.42	7.12	3									
	-0.15	0.00	2	0.44	0.00	3	15.22	T	0.00	2					
MIN	-0.11	7.12	3	-0.29	0.00	3									
	-0.24	7.12	3	-1.30	7.12	3	34.23	T	7.12	3					
201 MAX	0.06	0.00	3	0.43	0.00	3									
	0.23	0.00	3	0.51	8.14	3	15.33	T	0.00	2					
MIN	0.01	8.14	1	0.00	8.14	3									
	0.14	8.14	2	-1.34	0.00	3	34.35	T	8.14	3					
300 MAX	0.03	0.00	3	-0.05	0.00	2									
	-0.03	0.00	2	-0.12	0.00	2	53.86	C	0.00	3					
MIN	0.00	7.12	1	-0.19	7.12	3									

L-17.txt

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-0.04  7.12  3   -0.51  7.12  3   44.69 C  7.12  2

301 MAX  -0.04  0.00  2    0.33  8.14  1
        0.10  0.00  3    0.28  8.14  3   53.73 C  0.00  3
MIN      -0.08  8.14  1   -0.22  0.00  3
        0.06  8.14  2   -0.49  0.00  3   44.54 C  8.14  2

400 MAX   0.03  0.00  3   -0.04  0.00  2
        0.03  0.00  3    0.49  7.12  3   54.14 C  0.00  3
MIN       0.00  7.12  1   -0.20  7.12  3
        0.02  7.12  2    0.16  0.00  2   44.99 C  7.12  2

401 MAX  -0.05  0.00  2    0.35  8.14  1
        -0.06  0.00  2    0.47  0.00  3   54.01 C  0.00  3
MIN      -0.08  8.14  1   -0.24  0.00  3
        -0.09  8.14  3   -0.25  8.14  3   44.85 C  8.14  2
CON ED L-17                                -- PAGE NO. 27

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***** END OF FORCE ENVELOPE FROM INTERNAL STORAGE *****

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681. *
682. LOAD LIST 1 TO 3
683. PRINT MAXFORCE ENVELOPE LIST 102 103 202 203 302 303 402 403
CON ED L-17                                -- PAGE NO. 28

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MEMBER FORCE ENVELOPE

ALL UNITS ARE KIP FEET

MAX AND MIN FORCE VALUES AMONGST ALL SECTION LOCATIONS

MEMB	FY/	DIST	LD	MZ/	DIST	LD	
	FZ	DIST	LD	MY	DIST	LD	FX DIST LD
102 MAX	-0.01	0.00	2	0.28	14.25	1	
	0.05	0.00	3	0.20	14.25	3	12.53 T 0.00 2
MIN	-0.05	14.25	1	-0.22	0.00	3	
	0.03	14.25	2	-0.46	0.00	3	29.15 T 14.25 3
103 MAX	0.01	0.00	3	0.10	14.25	1	
	-0.01	0.00	2	0.21	0.00	3	9.20 T 0.00 2
MIN	-0.03	14.25	1	-0.08	2.37	1	
	-0.02	14.25	3	-0.09	14.25	3	23.27 T 14.25 3
202 MAX	-0.01	0.00	2	0.28	14.25	1	
	-0.03	0.00	2	0.44	0.00	3	12.82 T 0.00 2
MIN	-0.05	14.25	1	-0.22	0.00	3	
	-0.04	14.25	3	-0.19	14.25	3	29.47 T 14.25 3

L-17.txt

```
203 MAX  0.01  0.00  3   0.11 14.25  1
          0.02  0.00  3   0.09 14.25  3   9.64 T  0.00  2
MIN      -0.03 14.25  1   -0.08  2.37  1
          0.01 14.25  2   -0.20  0.00  3   23.73 T 14.25  3

302 MAX  0.00  0.00  3   0.23 14.25  1
          -0.02  0.00  2   0.22  0.00  3   47.76 C  0.00  3
MIN      -0.04 14.25  1   -0.08  0.00  1
          -0.02 14.25  3   -0.14 14.25  3   40.16 C 14.25  1

303 MAX  0.00  0.00  2   0.13 14.25  1
          0.02  0.00  3   0.06 14.25  3   42.81 C  0.00  3
MIN      -0.04 14.25  1   -0.15  0.00  1
          0.01 14.25  2   -0.15  0.00  3   36.55 C 14.25  1

402 MAX  0.00  0.00  3   0.22 14.25  1
          0.02  0.00  3   0.11 14.25  3   47.81 C  0.00  3
MIN      -0.04 14.25  1   -0.07  0.00  1
          0.01 14.25  2   -0.19  0.00  3   40.22 C 14.25  1

403 MAX  0.00  0.00  2   0.13 14.25  1
          -0.01  0.00  2   0.13  0.00  3   42.69 C  0.00  3
MIN      -0.04 14.25  1   -0.15  0.00  1
          -0.01 14.25  3   -0.06 14.25  3   36.44 C 14.25  1
CON ED L-17                                -- PAGE NO. 29
```

***** END OF FORCE ENVELOPE FROM INTERNAL STORAGE *****

```
684. *
685. LOAD LIST 1 TO 3
686. PRINT MAXFORCE ENVELOPE LIST 104 TO 107 204 TO 207 304 TO 307 404 TO 407
CON ED L-17                                -- PAGE NO. 30
```

MEMBER FORCE ENVELOPE

ALL UNITS ARE KIP FEET

MAX AND MIN FORCE VALUES AMONGST ALL SECTION LOCATIONS

```
MEMB    FY/  DIST LD    MZ/  DIST LD
        FZ  DIST LD    MY  DIST LD    FX  DIST LD

104 MAX  0.02  0.00  3    0.04  9.00  1
          0.01  0.00  1    0.05  9.00  1    3.71 T  0.00  2
MIN      -0.02  9.00  1    -0.01  6.00  3
          0.00  9.00  3    -0.05  0.00  1    15.07 T  9.00  3
```

```

105 MAX  0.04 0.00 1  0.02 0.00 1
      0.05 0.00 3  0.38 9.00 3  3.42 T 0.00 2
MIN  0.01 9.00 1  -0.20 9.00 2
      0.04 9.00 2  -0.09 0.00 1  14.17 T 9.00 3

106 MAX  -0.04 0.00 1  0.20 5.83 3
      -0.03 0.00 1  0.24 0.00 3  21.59 C 0.00 2
MIN  -0.08 5.83 3  -0.19 0.00 3
      -0.06 5.83 3  -0.09 5.83 3  17.39 C 5.83 3

107 MAX  0.03 0.00 3  0.19 0.00 3
      -0.02 0.00 3  -0.04 0.00 2  21.18 C 0.00 2
MIN  0.00 5.83 1  0.07 5.83 3
      -0.03 5.83 2  -0.24 5.83 2  17.02 C 5.83 3

204 MAX  0.02 0.00 3  0.05 9.00 1
      0.00 0.00 3  0.05 0.00 1  4.01 T 0.00 2
MIN  -0.02 9.00 1  -0.01 5.25 3
      -0.01 9.00 1  -0.05 9.00 1  15.45 T 9.00 3

205 MAX  0.04 0.00 1  0.03 0.00 1
      -0.04 0.00 2  0.09 0.00 1  3.82 T 0.00 2
MIN  0.01 9.00 3  -0.20 9.00 2
      -0.05 9.00 3  -0.39 9.00 3  14.71 T 9.00 3

206 MAX  -0.04 0.00 1  0.20 5.83 3
      0.07 0.00 3  0.13 5.83 3  21.26 C 0.00 2
MIN  -0.08 5.83 3  -0.20 0.00 3
      0.04 5.83 1  -0.26 0.00 3  17.07 C 5.83 3

207 MAX  0.03 0.00 3  0.20 0.00 3
      0.02 0.00 2  0.19 5.83 2  20.67 C 0.00 2
MIN  0.00 5.83 1  0.06 5.83 3
      0.00 5.83 3  0.09 0.00 1  16.51 C 5.83 3

304 MAX  0.00 0.00 1  0.12 9.00 1
      0.03 0.00 1  0.11 9.00 1  25.19 C 0.00 2
|| CON ED L-17 -- PAGE NO. 31

MIN  -0.03 9.00 1  -0.01 0.00 3
      0.02 9.00 2  -0.13 0.00 1  23.77 C 9.00 1

305 MAX  0.03 0.00 1  0.10 0.00 1
      -0.01 0.00 1  -0.01 0.00 2  24.02 C 0.00 2
MIN  -0.01 9.00 3  0.00 7.50 1
      -0.02 9.00 3  -0.20 9.00 3  22.59 C 9.00 1

306 MAX  0.08 0.00 3  0.23 0.00 3
      0.09 0.00 3  0.18 5.83 3  5.59 C 0.00 2
MIN  0.03 5.83 2  -0.18 5.83 3
      0.07 5.83 2  -0.33 0.00 3  5.55 T 5.83 3

307 MAX  -0.03 0.00 1  0.12 5.83 2
      -0.02 0.00 3  0.16 0.00 3  5.51 C 0.00 2
MIN  -0.05 5.83 3  -0.17 0.00 3

```

L-17.txt

```

-0.03  5.83  2  -0.05  5.83  2  5.45 T  5.83  3

404 MAX  0.00  0.00  1  0.12  9.00  1
      -0.02  0.00  2  0.13  0.00  1  24.85 C  0.00  2
      MIN  -0.03  9.00  1  -0.01  0.00  2
      -0.03  9.00  1  -0.11  9.00  1  23.42 C  9.00  1

405 MAX  0.03  0.00  1  0.10  0.00  1
      0.02  0.00  3  0.21  9.00  3  23.55 C  0.00  2
      MIN  -0.01  9.00  3  0.00  7.50  1
      0.01  9.00  1  0.00  0.00  2  22.12 C  9.00  1

406 MAX  0.08  0.00  3  0.23  0.00  3
      -0.07  0.00  2  0.35  0.00  3  5.61 C  0.00  2
      MIN  0.03  5.83  2  -0.18  5.83  3
      -0.09  5.83  3  -0.21  5.83  3  5.80 T  5.83  3

407 MAX  -0.03  0.00  1  0.11  5.83  2
      0.04  0.00  2  0.06  5.83  2  5.46 C  0.00  2
      MIN  -0.05  5.83  3  -0.17  0.00  3
      0.02  5.83  3  -0.18  0.00  3  5.71 T  5.83  3

```

***** END OF FORCE ENVELOPE FROM INTERNAL STORAGE *****

687. *

688. LOAD LIST 1 TO 3

689. PRINT MAXFORCE ENVELOPE LIST 108 109 208 209 308 309 408 409

CON ED L-17

-- PAGE NO. 32

MEMBER FORCE ENVELOPE

ALL UNITS ARE KIP FEET

MAX AND MIN FORCE VALUES AMONGST ALL SECTION LOCATIONS

```

MEMB  FY/  DIST LD  MZ/  DIST LD
      FZ  DIST LD  MY  DIST LD  FX  DIST LD

108 MAX  0.07  0.00  2  0.18  0.00  2
      0.06  0.00  2  0.08  5.25  2  12.16 C  0.00  2
      MIN  0.05  5.25  3  -0.17  5.25  2
      0.05  5.25  3  -0.24  0.00  2  8.28 C  5.25  3

109 MAX  0.02  0.00  3  0.01  0.00  3
      0.00  0.00  3  0.14  0.00  2  1.95 C  0.00  2
      MIN  -0.02  5.82  1  -0.02  2.91  1
      -0.02  5.82  2  0.05  5.82  2  0.04 C  5.82  3

208 MAX  0.07  0.00  2  0.16  0.00  2

```

L-17.txt

```

-0.05 0.00 1 0.20 0.00 2 12.00 C 0.00 2
MIN 0.05 5.25 1 -0.16 5.25 2
-0.05 5.25 2 -0.08 5.25 3 7.86 C 5.25 3

209 MAX 0.02 0.00 1 0.01 0.00 3
0.00 0.00 2 -0.05 0.00 1 2.23 C 0.00 2
MIN -0.02 5.82 1 -0.02 2.91 1
-0.01 5.82 1 -0.10 5.82 1 0.31 T 5.82 3

308 MAX 0.00 0.00 2 0.08 5.25 3
0.01 0.00 2 0.04 0.00 3 6.45 C 0.00 2
MIN -0.04 5.25 3 -0.11 0.00 3
-0.01 5.25 3 -0.05 0.00 2 0.92 T 5.25 3

309 MAX 0.02 0.00 1 0.01 5.82 3
0.03 0.00 3 0.12 5.82 1 4.72 C 0.00 2
MIN -0.02 5.82 1 -0.02 2.91 1
0.02 5.82 2 -0.10 0.00 3 1.86 C 5.82 3

408 MAX 0.01 0.00 2 0.05 5.25 3
0.00 0.00 3 0.09 0.00 2 5.91 C 0.00 2
MIN -0.03 5.25 3 -0.09 0.00 3
-0.02 5.25 2 -0.04 5.25 2 1.34 T 5.25 3

409 MAX 0.01 0.00 1 0.03 5.82 3
0.01 0.00 2 0.01 0.00 3 3.52 C 0.00 2
MIN -0.02 5.82 1 -0.02 1.94 1
0.00 5.82 3 -0.07 0.00 2 1.00 C 5.82 3
[] CON ED L-17 -- PAGE NO. 33
```

***** END OF FORCE ENVELOPE FROM INTERNAL STORAGE *****

```

690. *
691. *DIAGONALS (BOTTOM FACE)
692. *
693. LOAD LIST 1 TO 3
694. PRINT MAXFORCE ENVELOPE LIST 1112 1212 2212 2312 3312 3412 4112 4412
[] CON ED L-17 -- PAGE NO. 34
```

MEMBER FORCE ENVELOPE

ALL UNITS ARE KIP FEET

MAX AND MIN FORCE VALUES AMONGST ALL SECTION LOCATIONS

```

MEMB  FY/  DIST LD  MZ/  DIST LD
      FZ  DIST LD  MY  DIST LD  FX  DIST LD
```

L-17.txt

1112 MAX 0.04 0.00 1 0.00 0.00 1
0.00 0.00 1 0.00 0.00 1 1.79 T 0.00 2
MIN -0.04 21.54 1 0.00 21.54 3
0.00 21.54 3 0.00 21.54 3 4.42 T 21.54 3

1212 MAX 0.04 0.00 1 0.00 0.00 1
0.00 0.00 1 0.00 0.00 1 1.75 T 0.00 2
MIN -0.04 21.54 1 0.00 21.54 3
0.00 21.54 3 0.00 21.54 3 4.37 T 21.54 3

2212 MAX 0.04 0.00 1 0.00 0.00 1
0.00 0.00 1 0.00 0.00 1 4.57 T 0.00 2
MIN -0.04 21.54 1 0.00 21.54 3
0.00 21.54 3 0.00 21.54 3 8.91 T 21.54 3

2312 MAX 0.00 0.00 1 0.00 0.00 1
0.00 0.00 1 0.00 0.00 1 0.00 0.00 1
MIN 0.00 21.54 3 0.00 21.54 3
0.00 21.54 3 0.00 21.54 3 0.00 21.54 3

3312 MAX 0.00 0.00 1 0.00 0.00 1
0.00 0.00 1 0.00 0.00 1 0.00 0.00 1
MIN 0.00 21.54 3 0.00 21.54 3
0.00 21.54 3 0.00 21.54 3 0.00 21.54 3

3412 MAX 0.00 0.00 1 0.00 0.00 1
0.00 0.00 1 0.00 0.00 1 0.00 0.00 1
MIN 0.00 21.54 3 0.00 21.54 3
0.00 21.54 3 0.00 21.54 3 0.00 21.54 3

4112 MAX 0.04 0.00 1 0.00 0.00 1
0.00 0.00 1 0.00 0.00 1 4.97 T 0.00 2
MIN -0.04 21.54 1 0.00 21.54 3
0.00 21.54 3 0.00 21.54 3 9.31 T 21.54 3

4412 MAX 0.00 0.00 1 0.00 0.00 1
0.00 0.00 1 0.00 0.00 1 0.00 0.00 1
MIN 0.00 21.54 3 0.00 21.54 3
0.00 21.54 3 0.00 21.54 3 0.00 21.54 3

CON ED L-17 -- PAGE NO. 35

***** END OF FORCE ENVELOPE FROM INTERNAL STORAGE *****

695. *

696. LOAD LIST 1 TO 3

697. PRINT MAXFORCE ENVELOPE LIST 1111 1211 2211 2311 3311 3411 4111 4411

CON ED L-17 -- PAGE NO. 36

MEMBER FORCE ENVELOPE

ALL UNITS ARE KIP FEET

MAX AND MIN FORCE VALUES AMONGST ALL SECTION LOCATIONS

MEMB	FY/	DIST	LD	MZ/	DIST	LD			
	FZ	DIST	LD	MY	DIST	LD	FX	DIST	LD
1111 MAX	0.05	0.00	1	0.11	0.00	1			
	-0.01	0.00	2	0.04	0.00	1	0.03 C	13.23	1
MIN	-0.05	13.23	1	-0.06	6.61	1			
	-0.01	13.23	1	-0.11	13.23	1	0.00 C	0.00	3
1211 MAX	0.05	0.00	1	0.11	0.00	1			
	0.01	0.00	1	0.11	13.23	1	0.03 C	13.23	1
MIN	-0.05	13.23	1	-0.06	6.61	1			
	0.01	13.23	2	-0.04	0.00	1	0.00 C	0.00	3
2211 MAX	0.05	0.00	1	0.10	0.00	1			
	-0.01	0.00	2	0.04	0.00	1	0.10 C	13.23	3
MIN	-0.05	13.23	1	-0.06	6.61	1			
	-0.01	13.23	1	-0.06	13.23	1	0.06 C	0.00	2
2311 MAX	0.05	0.00	1	0.14	0.00	1			
	0.01	0.00	1	0.05	13.23	1	0.06 C	13.23	1
MIN	-0.04	13.23	1	-0.05	7.72	1			
	0.00	13.23	3	-0.03	0.00	1	0.03 C	0.00	2
3311 MAX	0.05	0.00	1	0.13	0.00	1			
	-0.01	0.00	3	0.03	0.00	1	0.03 C	13.23	1
MIN	-0.05	13.23	1	-0.05	6.61	1			
	-0.01	13.23	1	-0.09	13.23	1	0.00 T	0.00	3
3411 MAX	0.05	0.00	1	0.13	0.00	1			
	0.01	0.00	1	0.09	13.23	1	0.02 C	13.23	1
MIN	-0.05	13.23	1	-0.06	6.61	1			
	0.01	13.23	3	-0.03	0.00	1	0.01 T	0.00	3
4111 MAX	0.05	0.00	1	0.10	0.00	1			
	0.01	0.00	1	0.06	13.23	1	0.10 C	13.23	3
MIN	-0.05	13.23	1	-0.06	6.61	1			
	0.01	13.23	2	-0.04	0.00	1	0.07 C	0.00	2
4411 MAX	0.05	0.00	1	0.14	0.00	1			
	0.00	0.00	3	0.03	0.00	1	0.07 C	13.23	1
MIN	-0.04	13.23	1	-0.05	7.72	1			
	-0.01	13.23	1	-0.05	13.23	1	0.04 C	0.00	2
CON ED L-17							-- PAGE NO.	37	

***** END OF FORCE ENVELOPE FROM INTERNAL STORAGE *****

698. *

699. LOAD LIST 1 TO 3

700. PRINT MAXFORCE ENVELOPE LIST 11100 11200 12200 12300 13300 13400 14100 -

□ CON ED L-17

-- PAGE NO. 38

MEMBER FORCE ENVELOPE

ALL UNITS ARE KIP FEET

MAX AND MIN FORCE VALUES AMONGST ALL SECTION LOCATIONS

MEMB	FY/	DIST	LD	MZ/	DIST	LD	
	FZ	DIST	LD	MY	DIST	LD	FX DIST LD
701. 14400							
11100 MAX	0.04	0.00	1	0.00	0.00	1	
	0.00	0.00	1	0.00	0.00	1	2.41 T 15.69 2
MIN	-0.04	15.69	1	0.00	15.69	3	
	0.00	15.69	3	0.00	15.69	3	5.25 T 0.00 3
11200 MAX	0.04	0.00	1	0.00	0.00	1	
	0.00	0.00	1	0.00	0.00	1	2.41 T 15.69 2
MIN	-0.04	15.69	1	0.00	15.69	3	
	0.00	15.69	3	0.00	15.69	3	5.25 T 0.00 3
12200 MAX	0.04	0.00	1	0.00	0.00	1	
	0.00	0.00	1	0.00	0.00	1	0.78 T 15.69 2
MIN	-0.04	15.69	1	0.00	15.69	3	
	0.00	15.69	3	0.00	15.69	3	1.22 T 0.00 3
12300 MAX	0.04	0.00	1	0.00	0.00	1	
	0.00	0.00	1	0.00	0.00	1	5.03 T 15.69 2
MIN	-0.04	15.69	1	0.00	15.69	3	
	0.00	15.69	3	0.00	15.69	3	9.36 T 0.00 3
13300 MAX	0.04	0.00	1	0.00	0.00	1	
	0.00	0.00	1	0.00	0.00	1	0.46 T 15.69 3
MIN	-0.04	15.69	1	0.00	15.69	3	
	0.00	15.69	3	0.00	15.69	3	0.66 T 0.00 1
13400 MAX	0.04	0.00	1	0.00	0.00	1	
	0.00	0.00	1	0.00	0.00	1	0.42 T 15.69 3
MIN	-0.04	15.69	1	0.00	15.69	3	
	0.00	15.69	3	0.00	15.69	3	0.61 T 0.00 1
14100 MAX	0.04	0.00	1	0.00	0.00	1	
	0.00	0.00	1	0.00	0.00	1	0.85 T 15.69 2
MIN	-0.04	15.69	1	0.00	15.69	3	
	0.00	15.69	3	0.00	15.69	3	1.29 T 0.00 3
14400 MAX	0.04	0.00	1	0.00	0.00	1	

L-17.txt

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      0.00 0.00 1 0.00 0.00 1 5.39 T 15.69 2
MIN  -0.04 15.69 1 0.00 15.69 3
      0.00 15.69 3 0.00 15.69 3 9.73 T 0.00 3
CON ED L-17 -- PAGE NO. 39

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***** END OF FORCE ENVELOPE FROM INTERNAL STORAGE *****

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702. *
703. LOAD LIST 1 TO 3
704. PRINT MAXFORCE ENVELOPE LIST 1100 1101 1200 1201 2200 2201 2300 2301 -
CON ED L-17 -- PAGE NO. 40

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MEMBER FORCE ENVELOPE

ALL UNITS ARE KIP FEET

MAX AND MIN FORCE VALUES AMONGST ALL SECTION LOCATIONS

MEMB	FY/	DIST	LD	MZ/	DIST	LD	FZ	DIST	LD	MY	DIST	LD	FX	DIST	LD
705.3300	3301	3400	3401	4100	4101	4400	4401								
1100	MAX	0.03	0.00	1	0.00	0.00	1								
		0.00	0.00	1	0.00	0.00	1	0.62	T	0.00	2				
	MIN	-0.03	13.02	1	0.00	13.02	3								
		0.00	13.02	3	0.00	13.02	3	1.57	T	13.02	3				
1101	MAX	0.03	0.00	1	0.00	0.00	1								
		0.00	0.00	1	0.00	0.00	1	0.44	T	0.00	2				
	MIN	-0.03	14.20	1	0.00	14.20	3								
		0.00	14.20	3	0.00	14.20	3	0.97	T	14.20	3				
1200	MAX	0.03	0.00	1	0.00	0.00	1								
		0.00	0.00	1	0.00	0.00	1	0.60	T	0.00	2				
	MIN	-0.03	13.02	1	0.00	13.02	3								
		0.00	13.02	3	0.00	13.02	3	1.56	T	13.02	3				
1201	MAX	0.03	0.00	1	0.00	0.00	1								
		0.00	0.00	1	0.00	0.00	1	0.48	T	0.00	2				
	MIN	-0.03	14.20	1	0.00	14.20	3								
		0.00	14.20	3	0.00	14.20	3	1.02	T	14.20	3				
2200	MAX	0.03	0.00	1	0.00	0.00	1								
		0.00	0.00	1	0.00	0.00	1	5.15	T	0.00	2				
	MIN	-0.03	13.02	1	0.00	13.02	3								
		0.00	13.02	3	0.00	13.02	3	9.59	T	13.02	3				
2201	MAX	0.00	0.00	1	0.00	0.00	1								


```

      0.00 0.00 1 0.00 0.00 1 0.00 0.00 1
MIN 0.00 14.20 3 0.00 14.20 3
      0.00 14.20 3 0.00 14.20 3 0.00 14.20 3

2300 MAX 0.03 0.00 1 0.00 0.00 1
      0.00 0.00 1 0.00 0.00 1 1.63 T 0.00 2
MIN -0.03 13.02 1 0.00 13.02 3
      0.00 13.02 3 0.00 13.02 3 3.28 T 13.02 3

2301 MAX 0.03 0.00 1 0.00 0.00 1
      0.00 0.00 1 0.00 0.00 1 4.06 T 0.00 2
MIN -0.03 14.20 1 0.00 14.20 3
      0.00 14.20 3 0.00 14.20 3 7.44 T 14.20 3
CON ED L-17 -- PAGE NO. 41

3300 MAX 0.00 0.00 1 0.00 0.00 1
      0.00 0.00 1 0.00 0.00 1 0.00 0.00 1
MIN 0.00 13.02 3 0.00 13.02 3
      0.00 13.02 3 0.00 13.02 3 0.00 13.02 3

3301 MAX 0.03 0.00 1 0.00 0.00 1
      0.00 0.00 1 0.00 0.00 1 0.17 T 0.00 2
MIN -0.03 14.20 1 0.00 14.20 3
      0.00 14.20 3 0.00 14.20 3 0.26 T 14.20 1

3400 MAX 0.00 0.00 1 0.00 0.00 1
      0.00 0.00 1 0.00 0.00 1 0.00 0.00 1
MIN 0.00 13.02 3 0.00 13.02 3
      0.00 13.02 3 0.00 13.02 3 0.00 13.02 3

3401 MAX 0.03 0.00 1 0.00 0.00 1
      0.00 0.00 1 0.00 0.00 1 0.15 T 0.00 2
MIN -0.03 14.20 1 0.00 14.20 3
      0.00 14.20 3 0.00 14.20 3 0.25 T 14.20 1

4100 MAX 0.03 0.00 1 0.00 0.00 1
      0.00 0.00 1 0.00 0.00 1 5.58 T 0.00 2
MIN -0.03 13.02 1 0.00 13.02 3
      0.00 13.02 3 0.00 13.02 3 10.03 T 13.02 3

4101 MAX 0.00 0.00 1 0.00 0.00 1
      0.00 0.00 1 0.00 0.00 1 0.00 0.00 1
MIN 0.00 14.20 3 0.00 14.20 3
      0.00 14.20 3 0.00 14.20 3 0.00 14.20 3

4400 MAX 0.03 0.00 1 0.00 0.00 1
      0.00 0.00 1 0.00 0.00 1 1.80 T 0.00 2
MIN -0.03 13.02 1 0.00 13.02 3
      0.00 13.02 3 0.00 13.02 3 3.45 T 13.02 3

4401 MAX 0.03 0.00 1 0.00 0.00 1
      0.00 0.00 1 0.00 0.00 1 4.39 T 0.00 2
MIN -0.03 14.20 1 0.00 14.20 3
      0.00 14.20 3 0.00 14.20 3 7.78 T 14.20 3

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***** END OF FORCE ENVELOPE FROM INTERNAL STORAGE *****

706. *

707. LOAD LIST 1 TO 3

708. PRINT MAXFORCE ENVELOPE LIST 1102 1103 1202 1203 2202 2203 2302 2303 -

|| CON ED L-17 -- PAGE NO. 42

MEMBER FORCE ENVELOPE

ALL UNITS ARE KIP FEET

MAX AND MIN FORCE VALUES AMONGST ALL SECTION LOCATIONS

MEMB	FY/	DIST	LD	MZ/	DIST	LD	FZ	DIST	LD	MY	DIST	LD	FX	DIST	LD
709. 3302 3303 3402 3403 4102 4103 4402 4403															

1102 MAX	0.04	0.00	1	0.00	0.00	1									
	0.00	0.00	1	0.00	0.00	1	1.12 T	0.00	2						
MIN	-0.04	22.97	1	0.00	22.97	3									
	0.00	22.97	3	0.00	22.97	3	2.62 T	22.97	3						

1103 MAX	0.03	0.00	1	0.00	0.00	1									
	0.00	0.00	1	0.00	0.00	1	1.14 T	0.00	2						
MIN	-0.03	20.15	1	0.00	20.15	3									
	0.00	20.15	3	0.00	20.15	3	2.92 T	20.15	3						

1202 MAX	0.04	0.00	1	0.00	0.00	1									
	0.00	0.00	1	0.00	0.00	1	1.09 T	0.00	2						
MIN	-0.04	22.97	1	0.00	22.97	3									
	0.00	22.97	3	0.00	22.97	3	2.59 T	22.97	3						

1203 MAX	0.03	0.00	1	0.00	0.00	1									
	0.00	0.00	1	0.00	0.00	1	1.11 T	0.00	2						
MIN	-0.03	20.15	1	0.00	20.15	3									
	0.00	20.15	3	0.00	20.15	3	2.89 T	20.15	3						

2202 MAX	0.04	0.00	1	0.00	0.00	1									
	0.00	0.00	1	0.00	0.00	1	4.14 T	0.00	2						
MIN	-0.04	22.97	1	0.00	22.97	3									
	0.00	22.97	3	0.00	22.97	3	7.18 T	22.97	3						

2203 MAX	0.03	0.00	1	0.00	0.00	1									
	0.00	0.00	1	0.00	0.00	1	4.96 T	0.00	2						
MIN	-0.03	20.15	1	0.00	20.15	3									
	0.00	20.15	3	0.00	20.15	3	8.17 T	20.15	3						

2302 MAX	0.00	0.00	1	0.00	0.00	1									
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L-17.txt

0.00 0.00 1 0.00 0.00 1 0.00 0.00 1
MIN 0.00 22.97 3 0.00 22.97 3
0.00 22.97 3 0.00 22.97 3 0.00 22.97 3

2303 MAX 0.00 0.00 1 0.00 0.00 1
0.00 0.00 1 0.00 0.00 1 0.00 0.00 1
MIN 0.00 20.15 3 0.00 20.15 3
0.00 20.15 3 0.00 20.15 3 0.00 20.15 3

□ CON ED L-17 -- PAGE NO. 43

3302 MAX 0.00 0.00 1 0.00 0.00 1
0.00 0.00 1 0.00 0.00 1 0.00 0.00 1
MIN 0.00 22.97 3 0.00 22.97 3
0.00 22.97 3 0.00 22.97 3 0.00 22.97 3

3303 MAX 0.00 0.00 1 0.00 0.00 1
0.00 0.00 1 0.00 0.00 1 0.00 0.00 1
MIN 0.00 20.15 3 0.00 20.15 3
0.00 20.15 3 0.00 20.15 3 0.00 20.15 3

3402 MAX 0.00 0.00 1 0.00 0.00 1
0.00 0.00 1 0.00 0.00 1 0.00 0.00 1
MIN 0.00 22.97 3 0.00 22.97 3
0.00 22.97 3 0.00 22.97 3 0.00 22.97 3

3403 MAX 0.00 0.00 1 0.00 0.00 1
0.00 0.00 1 0.00 0.00 1 0.00 0.00 1
MIN 0.00 20.15 3 0.00 20.15 3
0.00 20.15 3 0.00 20.15 3 0.00 20.15 3

4102 MAX 0.04 0.00 1 0.00 0.00 1
0.00 0.00 1 0.00 0.00 1 4.42 T 0.00 2
MIN -0.04 22.97 1 0.00 22.97 3
0.00 22.97 3 0.00 22.97 3 7.45 T 22.97 3

4103 MAX 0.03 0.00 1 0.00 0.00 1
0.00 0.00 1 0.00 0.00 1 5.22 T 0.00 2
MIN -0.03 20.15 1 0.00 20.15 3
0.00 20.15 3 0.00 20.15 3 8.44 T 20.15 3

4402 MAX 0.00 0.00 1 0.00 0.00 1
0.00 0.00 1 0.00 0.00 1 0.00 0.00 1
MIN 0.00 22.97 3 0.00 22.97 3
0.00 22.97 3 0.00 22.97 3 0.00 22.97 3

4403 MAX 0.00 0.00 1 0.00 0.00 1
0.00 0.00 1 0.00 0.00 1 0.00 0.00 1
MIN 0.00 20.15 3 0.00 20.15 3
0.00 20.15 3 0.00 20.15 3 0.00 20.15 3

***** END OF FORCE ENVELOPE FROM INTERNAL STORAGE *****

710. *

711. *DIAGONALS FACE 100-200 & 400-300

712. *

713. LOAD LIST 1 TO 3

714. PRINT MAXFORCE ENVELOPE LIST 1104 1105 1204 1205 3304 3305 3404 3405

CON ED L-17

-- PAGE NO. 44

MEMBER FORCE ENVELOPE

ALL UNITS ARE KIP FEET

MAX AND MIN FORCE VALUES AMONGST ALL SECTION LOCATIONS

MEMB	FY/	DIST	LD	MZ/	DIST	LD	
	FZ	DIST	LD	MY	DIST	LD	FX DIST LD
1104 MAX	0.03	0.00	1	0.06	0.00	1	
	0.00	0.00	1	0.03	14.45	1	0.23 C 0.00 3
MIN	-0.02	14.45	1	-0.03	7.23	1	
	0.00	14.45	2	-0.02	0.00	1	0.13 C 14.45 1
1105 MAX	0.02	0.00	1	0.04	12.74	1	
	0.00	0.00	3	0.06	12.74	3	0.49 T 0.00 2
MIN	-0.02	12.74	1	-0.03	6.37	1	
	0.00	12.74	2	0.01	0.00	3	1.28 T 12.74 3
1204 MAX	0.03	0.00	1	0.06	0.00	1	
	0.00	0.00	2	0.02	0.00	1	0.33 C 0.00 3
MIN	-0.02	14.45	1	-0.03	7.23	1	
	0.00	14.45	1	-0.02	14.45	1	0.18 C 14.45 1
1205 MAX	0.02	0.00	1	0.04	12.74	1	
	0.00	0.00	2	-0.01	0.00	3	0.40 T 0.00 2
MIN	-0.02	12.74	1	-0.03	6.37	1	
	0.00	12.74	3	-0.06	12.74	3	1.13 T 12.74 3
3304 MAX	0.03	0.00	1	0.07	0.00	1	
	0.00	0.00	1	0.02	14.45	1	0.01 T 0.00 2
MIN	-0.02	14.45	1	-0.03	7.23	1	
	0.00	14.45	2	-0.01	0.00	1	0.10 T 14.45 3
3305 MAX	0.02	0.00	1	0.05	0.00	1	
	0.00	0.00	1	0.01	0.00	1	1.53 C 0.00 3
MIN	-0.02	12.74	1	-0.02	6.37	1	
	0.00	12.74	3	-0.01	12.74	3	1.35 C 12.74 1
3404 MAX	0.03	0.00	1	0.07	0.00	1	
	0.00	0.00	2	0.01	0.00	1	0.06 C 0.00 2
MIN	-0.02	14.45	1	-0.03	7.23	1	
	0.00	14.45	1	-0.02	14.45	1	0.01 T 14.45 3

L-17.txt

3405 MAX 0.02 0.00 1 0.05 0.00 1
 0.00 0.00 3 0.01 12.74 3 1.67 C 0.00 3
 MIN -0.02 12.74 1 -0.02 6.37 1
 0.00 12.74 1 -0.01 0.00 1 1.46 C 12.74 1
 CON ED L-17 -- PAGE NO. 45

***** END OF FORCE ENVELOPE FROM INTERNAL STORAGE *****

715. *

716. LOAD LIST 1 TO 3

717. PRINT MAXFORCE ENVELOPE LIST 1106 1107 1206 1207 3306 3307 3406 3407

CON ED L-17 -- PAGE NO. 46

MEMBER FORCE ENVELOPE

ALL UNITS ARE KIP FEET

MAX AND MIN FORCE VALUES AMONGST ALL SECTION LOCATIONS

MEMB FY/ DIST LD MZ/ DIST LD
 FZ DIST LD MY DIST LD FX DIST LD

1106 MAX 0.01 0.00 1 0.02 0.00 1
 0.00 0.00 1 0.01 0.00 3 0.11 T 0.00 1
 MIN -0.01 9.24 1 -0.01 5.39 1
 0.00 9.24 3 0.00 9.24 3 0.17 T 9.24 3

1107 MAX 0.01 0.00 1 0.01 0.00 1
 0.00 0.00 3 0.00 0.00 1 0.38 C 0.00 2
 MIN 0.00 8.14 1 0.00 4.75 1
 0.00 8.14 1 -0.01 8.14 2 0.34 C 8.14 1

1206 MAX 0.01 0.00 1 0.02 0.00 1
 0.00 0.00 3 0.00 9.24 3 0.20 T 0.00 1
 MIN -0.01 9.24 1 -0.01 5.39 1
 0.00 9.24 2 0.00 0.00 1 0.24 T 9.24 3

1207 MAX 0.01 0.00 1 0.01 0.00 1
 0.00 0.00 1 0.01 8.14 2 0.75 C 0.00 2
 MIN 0.00 8.14 1 0.00 4.75 1
 0.00 8.14 3 0.00 0.00 1 0.67 C 8.14 1

3306 MAX 0.01 0.00 1 0.01 9.24 1
 0.00 0.00 3 0.00 9.24 3 0.13 C 0.00 3
 MIN -0.01 9.24 1 -0.01 4.62 1
 0.00 9.24 1 0.00 0.00 3 0.10 C 9.24 2

3307 MAX 0.01 0.00 1 0.01 0.00 1

L-17.txt

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      0.00 0.00 3    0.01 0.00 1    0.00 T 0.00 2
MIN   -0.01 8.14 1    0.00 4.07 1
      0.00 8.14 1    0.00 8.14 2    0.20 T 8.14 3

3406 MAX   0.01 0.00 1    0.01 9.24 3
      0.00 0.00 1    0.00 0.00 3    0.21 C 0.00 3
MIN   -0.01 9.24 1    -0.01 4.62 1
      0.00 9.24 3    0.00 9.24 1    0.09 C 9.24 2

3407 MAX   0.01 0.00 1    0.01 0.00 1
      0.00 0.00 1    0.00 8.14 2    0.09 C 0.00 2
MIN   -0.01 8.14 1    0.00 4.07 1
      0.00 8.14 3    -0.01 0.00 1    0.27 T 8.14 3
[] CON ED L-17                                -- PAGE NO. 47

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***** END OF FORCE ENVELOPE FROM INTERNAL STORAGE *****

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718. *
719. LOAD LIST 1 TO 3
720. PRINT MAXFORCE ENVELOPE LIST 1108 1208 3308 3408
[] CON ED L-17                                -- PAGE NO. 48

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MEMBER FORCE ENVELOPE

ALL UNITS ARE KIP FEET

MAX AND MIN FORCE VALUES AMONGST ALL SECTION LOCATIONS

MEMB	FY/	DIST	LD	MZ/	DIST	LD			
	FZ	DIST	LD	MY	DIST	LD	FX	DIST	LD
1108 MAX	0.01	0.00	1	0.01	0.00	1			
	0.01	0.00	3	0.02	7.25	3	2.12 C	0.00	2
MIN	-0.01	7.25	1	-0.01	3.63	1			
	0.01	7.25	1	-0.02	0.00	3	1.34 C	7.25	3
1208 MAX	0.01	0.00	1	0.01	0.00	1			
	0.00	0.00	3	0.02	0.00	2	1.85 C	0.00	2
MIN	-0.01	7.25	1	-0.01	3.63	1			
	-0.01	7.25	2	-0.02	7.25	2	1.49 C	7.25	3
3308 MAX	0.01	0.00	1	0.01	7.25	1			
	0.00	0.00	2	0.01	0.00	3	0.43 C	0.00	2
MIN	-0.01	7.25	1	-0.01	3.63	1			
	0.00	7.25	3	0.00	7.25	3	0.41 T	7.25	3
3408 MAX	0.01	0.00	1	0.01	7.25	1			
	0.00	0.00	3	0.01	7.25	3	1.24 C	0.00	2

L-17.txt

MIN -0.01 7.25 1 -0.01 3.63 1
0.00 7.25 1 -0.02 0.00 3 0.16 C 7.25 3

***** END OF FORCE ENVELOPE FROM INTERNAL STORAGE *****

721. *

722. *DIAGONALS FACE 100-400&200 -300

723. *

724. LOAD LIST 1 TO 3

725. PRINT MAXFORCE ENVELOPE LIST 21 22 41 42 2104 2404 4104 4404

11 CON ED L-17

-- PAGE NO. 49

MEMBER FORCE ENVELOPE

ALL UNITS ARE KIP FEET

MAX AND MIN FORCE VALUES AMONGST ALL SECTION LOCATIONS

MEMB	FY/	DIST	LD	MZ/	DIST	LD			
	FZ	DIST	LD	MY	DIST	LD	FX	DIST	LD
21 MAX	0.06	0.00	1	0.16	0.00	1			
	-0.01	0.00	3	0.06	0.00	1	14.78 C	0.00	3
MIN	-0.04	16.38	1	-0.10	9.56	1			
	-0.01	16.38	1	-0.04	16.38	2	10.85 C	16.38	1
22 MAX	0.05	0.00	1	0.16	0.00	1			
	0.00	0.00	1	-0.02	16.38	2	8.67 T	0.00	2
MIN	-0.05	16.38	1	-0.04	8.19	1			
	0.00	16.38	3	-0.05	0.00	1	13.80 T	16.38	3
41 MAX	0.06	0.00	1	0.16	0.00	1			
	0.01	0.00	1	0.04	16.38	3	14.79 C	0.00	3
MIN	-0.04	16.38	1	-0.10	9.56	1			
	0.01	16.38	3	-0.06	0.00	1	10.91 C	16.38	1
42 MAX	0.05	0.00	1	0.16	0.00	1			
	0.00	0.00	3	0.05	0.00	1	8.45 T	0.00	2
MIN	-0.05	16.38	1	-0.04	8.19	1			
	0.00	16.38	1	0.02	16.38	2	13.66 T	16.38	3
2104 MAX	0.02	0.00	1	0.05	8.47	1			
	0.02	0.00	1	0.11	8.47	1	10.03 T	0.00	2
MIN	-0.03	8.47	1	-0.03	3.53	1			
	0.01	8.47	2	-0.05	0.00	1	16.15 T	8.47	3
2404 MAX	0.02	0.00	1	0.05	8.47	1			
	-0.01	0.00	2	0.05	0.00	1	17.63 C	0.00	3
MIN	-0.03	8.47	1	-0.01	4.24	1			

L-17.txt

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-0.02 8.47 1 -0.11 8.47 1 13.11 C 8.47 1
4104 MAX 0.02 0.00 1 0.05 8.47 1
-0.02 0.00 2 0.05 0.00 1 9.86 T 0.00 2
MIN -0.03 8.47 1 -0.03 3.53 1
-0.02 8.47 1 -0.11 8.47 1 16.02 T 8.47 3
4404 MAX 0.02 0.00 1 0.05 8.47 1
0.02 0.00 1 0.10 8.47 1 17.63 C 0.00 3
MIN -0.03 8.47 1 -0.01 4.24 1
0.01 8.47 2 -0.05 0.00 1 13.14 C 8.47 1
CON ED L-17 -- PAGE NO. 50

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***** END OF FORCE ENVELOPE FROM INTERNAL STORAGE *****

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726. *
727. LOAD LIST 1 TO 3
728. PRINT MAXFORCE ENVELOPE LIST 2106 2406 4106 4406
CON ED L-17 -- PAGE NO. 51

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MEMBER FORCE ENVELOPE

ALL UNITS ARE KIP FEET

MAX AND MIN FORCE VALUES AMONGST ALL SECTION LOCATIONS

MEMB	FY/	DIST	LD	MZ/	DIST	LD	FZ	DIST	LD	MY	DIST	LD	FX	DIST	LD
2106 MAX	0.02	0.00	3	0.04	0.00	3									
	0.01	0.00	2	0.13	11.26	2	11.72	T	0.00	1					
MIN	0.00	11.26	1	-0.05	11.26	3									
	0.01	11.26	3	-0.03	0.00	2	15.84	T	11.26	3					
2406 MAX	0.00	0.00	1	0.10	11.26	3									
	0.00	0.00	3	0.06	11.26	3	14.26	C	0.00	3					
MIN	-0.02	11.26	3	-0.05	0.00	3									
	0.00	11.26	2	0.01	11.26	2	9.17	C	11.26	2					
4106 MAX	0.02	0.00	3	0.05	0.00	3									
	-0.01	0.00	3	0.03	0.00	2	11.38	T	0.00	1					
MIN	0.00	11.26	1	-0.06	11.26	3									
	-0.01	11.26	2	-0.12	11.26	2	15.39	T	11.26	3					
4406 MAX	0.00	0.00	1	0.11	11.26	3									
	0.00	0.00	2	0.00	11.26	2	14.03	C	0.00	3					
MIN	-0.02	11.26	3	-0.05	0.00	3									
	0.00	11.26	3	-0.06	11.26	3	8.75	C	11.26	2					

***** END OF FORCE ENVELOPE FROM INTERNAL STORAGE *****

729. *

730. LOAD LIST 1 TO 3

731. PRINT MAXFORCE ENVELOPE LIST 23 24 43 44 61 63 81 83

CON ED L-17 -- PAGE NO. 52

MEMBER FORCE ENVELOPE

ALL UNITS ARE KIP FEET

MAX AND MIN FORCE VALUES AMONGST ALL SECTION LOCATIONS

MEMB	FY/	DIST	LD	MZ/	DIST	LD	
	FZ	DIST	LD	MY	DIST	LD	FX DIST LD
23 MAX	0.04	0.00	1	0.07	11.04	1	
	0.00	0.00	2	0.01	0.00	3	1.63 C 0.00 3
MIN	-0.04	11.04	1	-0.05	5.52	1	
	0.00	11.04	3	-0.01	11.04	3	0.64 C 11.04 2
24 MAX	0.04	0.00	1	0.10	0.00	1	
	0.00	0.00	1	0.02	0.00	2	2.49 T 0.00 3
MIN	-0.03	11.04	1	-0.04	6.44	1	
	0.00	11.04	2	0.00	11.04	3	4.09 T 11.04 2
43 MAX	0.04	0.00	1	0.07	11.04	1	
	0.00	0.00	2	0.02	11.04	2	1.23 C 0.00 2
MIN	-0.04	11.04	1	-0.05	5.52	1	
	0.00	11.04	3	-0.02	0.00	2	0.94 C 11.04 3
44 MAX	0.04	0.00	1	0.10	0.00	1	
	-0.01	0.00	3	0.09	0.00	2	0.86 T 0.00 3
MIN	-0.04	11.04	1	-0.04	6.44	1	
	-0.01	11.04	2	-0.06	11.04	2	1.79 T 11.04 2
61 MAX	0.01	0.00	3	0.03	0.00	3	
	-0.02	0.00	2	0.07	0.00	3	8.00 C 0.00 3
MIN	0.00	5.07	1	-0.02	5.07	3	
	-0.02	5.07	3	-0.03	5.07	1	5.24 C 5.07 2
63 MAX	-0.01	0.00	1	0.02	5.07	3	
	0.00	0.00	1	0.04	0.00	3	5.48 T 0.00 1
MIN	-0.01	5.07	3	-0.04	0.00	3	
	-0.01	5.07	3	-0.01	5.07	3	8.21 T 5.07 3
81 MAX	0.01	0.00	3	0.03	0.00	3	
	0.02	0.00	3	0.04	5.07	3	7.59 C 0.00 3

L-17.txt

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MIN    0.00  5.07  1   -0.02  5.07  3
      0.02  5.07  2   -0.06  0.00  3   4.99 C  5.07  2

83 MAX  -0.01  0.00  1    0.03  5.07  3
      0.00  0.00  3    0.01  0.00  1   5.37 T  0.00  1
MIN    -0.02  5.07  3   -0.04  0.00  3
      0.00  5.07  1   -0.02  5.07  1   8.00 T  5.07  3
□ CON ED L-17                                -- PAGE NO.  53
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***** END OF FORCE ENVELOPE FROM INTERNAL STORAGE *****

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732. * LEVEL 76 TO 81 DIAGONAL
733. LOAD LIST 1 TO 3
734. PRINT MAXFORCE ENVELOPE LIST 2208 2209 4108 4109
□ CON ED L-17                                -- PAGE NO.  54
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MEMBER FORCE ENVELOPE

ALL UNITS ARE KIP FEET

MAX AND MIN FORCE VALUES AMONGST ALL SECTION LOCATIONS

MEMB	FY/	DIST	LD	MZ/	DIST	LD	
	FZ	DIST	LD	MY	DIST	LD	FX DIST LD
2208 MAX	0.02	0.00	1	0.03	0.00	1	
	0.01	0.00	2	0.02	8.04	2	11.36 C 0.00 3
MIN	-0.01	8.04	1	-0.01	4.69	1	
	0.00	8.04	3	-0.02	0.00	2	10.24 C 8.04 1
2209 MAX	0.01	0.00	1	0.04	8.65	1	
	0.00	0.00	3	0.02	0.00	2	9.47 T 8.65 1
MIN	-0.02	8.65	1	-0.01	3.60	1	
	-0.01	8.65	2	-0.03	8.65	2	11.17 T 0.00 3
4108 MAX	0.02	0.00	1	0.03	0.00	1	
	0.00	0.00	2	0.03	0.00	3	11.91 C 0.00 3
MIN	-0.01	8.04	1	-0.01	4.69	1	
	-0.01	8.04	3	-0.02	8.04	3	10.73 C 8.04 1
4109 MAX	0.01	0.00	1	0.03	8.65	1	
	0.01	0.00	2	0.03	8.65	2	9.83 T 8.65 1
MIN	-0.02	8.65	1	-0.01	3.60	1	
	0.00	8.65	3	-0.02	0.00	2	11.45 T 0.00 3

***** END OF FORCE ENVELOPE FROM INTERNAL STORAGE *****

735. *****

736. PRINT MAXFORCE ENVELOPE LIST 261 264 481 484 2208 2209 4108 4109

CON ED L-17

-- PAGE NO. 55

MEMBER FORCE ENVELOPE

ALL UNITS ARE KIP FEET

MAX AND MIN FORCE VALUES AMONGST ALL SECTION LOCATIONS

MEMB	FY/	DIST	LD	MZ/	DIST	LD			
	FZ	DIST	LD	MY	DIST	LD	FX	DIST	LD
261 MAX	0.02	0.00	1	0.03	0.00	1			
	0.01	0.00	2	0.02	8.65	2	8.06 C	0.00	3
MIN	-0.01	8.65	1	-0.01	5.04	1			
	0.00	8.65	3	-0.04	0.00	2	4.04 C	8.65	1
264 MAX	0.01	0.00	1	0.03	8.04	1			
	0.00	0.00	3	0.01	0.00	2	2.33 T	8.04	2
MIN	-0.01	8.04	1	-0.01	3.35	1			
	0.00	8.04	2	-0.02	8.04	2	7.09 T	0.00	3
481 MAX	0.02	0.00	1	0.03	0.00	1			
	0.00	0.00	3	0.05	0.00	2	8.05 C	0.00	3
MIN	-0.01	8.65	1	-0.01	5.04	1			
	-0.01	8.65	2	-0.02	8.65	2	3.91 C	8.65	2
484 MAX	0.01	0.00	1	0.03	8.04	1			
	0.00	0.00	1	0.01	8.04	1	2.58 T	8.04	2
MIN	-0.01	8.04	1	-0.01	3.35	1			
	0.00	8.04	3	-0.01	0.00	1	7.39 T	0.00	3
2208 MAX	0.02	0.00	1	0.03	0.00	1			
	0.01	0.00	2	0.02	8.04	2	11.36 C	0.00	3
MIN	-0.01	8.04	1	-0.01	4.69	1			
	0.00	8.04	3	-0.02	0.00	2	10.24 C	8.04	1
2209 MAX	0.01	0.00	1	0.04	8.65	1			
	0.00	0.00	3	0.02	0.00	2	9.47 T	8.65	1
MIN	-0.02	8.65	1	-0.01	3.60	1			
	-0.01	8.65	2	-0.03	8.65	2	11.17 T	0.00	3
4108 MAX	0.02	0.00	1	0.03	0.00	1			
	0.00	0.00	2	0.03	0.00	3	11.91 C	0.00	3
MIN	-0.01	8.04	1	-0.01	4.69	1			
	-0.01	8.04	3	-0.02	8.04	3	10.73 C	8.04	1
4109 MAX	0.01	0.00	1	0.03	8.65	1			
	0.01	0.00	2	0.03	8.65	2	9.83 T	8.65	1

L-17.txt

MIN -0.02 8.65 1 -0.01 3.60 1
0.00 8.65 3 -0.02 0.00 2 11.45 T 0.00 3
CON ED L-17 -- PAGE NO. 56

***** END OF FORCE ENVELOPE FROM INTERNAL STORAGE *****

737. LOAD LIST 1 TO 3

738. PRINT MAXFORCE ENVELOPE LIST 262 263 265 266 482 483 485 486

CON ED L-17 -- PAGE NO. 57

MEMBER FORCE ENVELOPE

ALL UNITS ARE KIP FEET

MAX AND MIN FORCE VALUES AMONGST ALL SECTION LOCATIONS

MEMB	FY/	DIST	LD	MZ/	DIST	LD			
	FZ	DIST	LD	MY	DIST	LD	FX	DIST	LD
262 MAX	0.02	0.00	1	0.04	10.28	1			
	0.00	0.00	3	0.01	10.28	3	6.32 T	0.00	1
MIN	-0.02	10.28	1	-0.01	5.14	1			
	0.00	10.28	2	-0.02	0.00	3	7.85 T	10.28	3
263 MAX	0.02	0.00	1	0.05	11.03	1			
	0.00	0.00	1	0.03	0.00	2	5.72 T	0.00	1
MIN	-0.02	11.03	1	-0.03	4.60	1			
	0.00	11.03	2	-0.01	11.03	2	7.70 T	11.03	3
265 MAX	0.02	0.00	1	0.05	11.03	3			
	0.00	0.00	2	0.02	0.00	3	7.85 C	11.03	3
MIN	-0.02	11.03	1	-0.01	5.52	1			
	0.00	11.03	3	-0.01	11.03	3	5.73 C	0.00	1
266 MAX	0.02	0.00	1	0.03	0.00	1			
	0.00	0.00	2	0.00	0.00	1	7.28 C	10.28	3
MIN	-0.02	10.28	1	-0.02	5.14	1			
	0.00	10.28	1	-0.01	10.28	1	5.00 C	0.00	1
482 MAX	0.02	0.00	1	0.04	10.28	1			
	0.00	0.00	3	0.01	0.00	1	6.29 T	0.00	1
MIN	-0.02	10.28	1	-0.01	5.14	1			
	0.00	10.28	1	-0.01	10.28	1	7.77 T	10.28	3
483 MAX	0.02	0.00	1	0.05	11.03	1			
	0.00	0.00	3	0.00	11.03	3	5.70 T	0.00	1
MIN	-0.02	11.03	1	-0.03	4.60	1			
	0.00	11.03	1	-0.02	0.00	3	7.62 T	11.03	3

L-17.txt

485 MAX 0.02 0.00 1 0.05 11.03 3
0.00 0.00 3 0.01 11.03 3 7.72 C 11.03 3
MIN -0.02 11.03 1 -0.01 5.52 1
0.00 11.03 2 0.00 0.00 1 5.65 C 0.00 1

486 MAX 0.02 0.00 1 0.03 0.00 1
0.00 0.00 1 0.02 10.28 1 7.22 C 10.28 3
MIN -0.02 10.28 1 -0.02 5.14 1
0.00 10.28 2 -0.02 0.00 1 5.00 C 0.00 1

CON ED L-17 -- PAGE NO. 58

***** END OF FORCE ENVELOPE FROM INTERNAL STORAGE *****

739. *HORIZ AT 100

740. LOAD LIST 1 TO 3

741. PRINT MAXFORCE ENVELOPE LIST 5100 5500 6200 6600 7300 7700 8400 8800

CON ED L-17 -- PAGE NO. 59

MEMBER FORCE ENVELOPE

ALL UNITS ARE KIP FEET

MAX AND MIN FORCE VALUES AMONGST ALL SECTION LOCATIONS

MEMB	FY/	DIST	LD	MZ/	DIST	LD			
	FZ	DIST	LD	MY	DIST	LD	FX	DIST	LD

5100 MAX	0.08	0.00	1	0.15	0.00	1			
	0.01	0.00	3	0.05	12.00	3	5.99 C	0.00	3
MIN	-0.07	12.00	1	-0.08	6.00	1			
	0.00	12.00	2	-0.04	0.00	3	2.76 C	12.00	2

5500 MAX	0.07	0.00	1	0.15	12.00	1			
	0.00	0.00	2	0.05	0.00	3	5.96 C	0.00	3
MIN	-0.08	12.00	1	-0.08	6.00	1			
	-0.01	12.00	3	-0.04	12.00	3	2.73 C	12.00	2

6200 MAX	0.08	0.00	1	0.19	0.00	1			
	0.01	0.00	3	0.03	12.00	3	9.92 C	0.00	3
MIN	-0.07	12.00	1	-0.07	6.00	1			
	0.00	12.00	2	-0.04	0.00	3	5.37 C	12.00	2

6600 MAX	0.07	0.00	1	0.19	12.00	1			
	0.00	0.00	2	0.03	0.00	3	9.94 C	0.00	3
MIN	-0.08	12.00	1	-0.08	5.00	1			
	-0.01	12.00	3	-0.04	12.00	3	5.39 C	12.00	2

L-17.txt

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7300 MAX   0.07  0.00  1   0.16 12.00  1
          0.01  0.00  3   0.04 12.00  3   0.56 C  0.00  1
      MIN  -0.08 12.00  1   -0.08  6.00  1
          0.00 12.00  2   -0.03  0.00  3   0.41 C 12.00  3

7700 MAX   0.08  0.00  1   0.16  0.00  1
          0.00  0.00  2   0.04  0.00  3   0.53 C  0.00  1
      MIN  -0.07 12.00  1   -0.08  6.00  1
          -0.01 12.00  3   -0.03 12.00  3   0.38 C 12.00  3

8400 MAX   0.08  0.00  1   0.19  0.00  1
          0.01  0.00  3   0.03 12.00  3  10.39 C  0.00  3
      MIN  -0.07 12.00  1   -0.08  7.00  1
          0.00 12.00  2   -0.04  0.00  3   5.84 C 12.00  2

8800 MAX   0.07  0.00  1   0.19 12.00  1
          0.00  0.00  2   0.03  0.00  3  10.43 C  0.00  3
      MIN  -0.08 12.00  1   -0.07  5.00  1
          -0.01 12.00  3   -0.05 12.00  3   5.88 C 12.00  2
[] CON ED L-17                                -- PAGE NO.  60

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***** END OF FORCE ENVELOPE FROM INTERNAL STORAGE *****

742. *VERTICAL AT 811

743. LOAD LIST 1 TO 3

744. PRINT MAXFORCE ENVELOPE LIST 500 600 700 800

[] CON ED L-17 -- PAGE NO. 61

MEMBER FORCE ENVELOPE

ALL UNITS ARE KIP FEET

MAX AND MIN FORCE VALUES AMONGST ALL SECTION LOCATIONS

```

MEMB      FY/  DIST LD    MZ/  DIST LD
          FZ  DIST LD    MY  DIST LD    FX  DIST LD

500 MAX   0.06  0.00  1    0.26  0.00  1
          0.00  0.00  3    0.00 10.11  3    0.33 C 10.11  1
      MIN   0.04 10.11  3   -0.30 10.11  1
          0.00 10.11  1    0.00  0.00  3    0.19 C  0.00  3

600 MAX   0.03  0.00  1    0.12  0.00  1
          0.01  0.00  3    0.04 10.11  3    0.28 C 10.11  1
      MIN   0.01 10.11  3   -0.13 10.11  1
          0.00 10.11  2   -0.03  0.00  3    0.15 C  0.00  3

700 MAX   0.06  0.00  1    0.26  0.00  1

```

L-17.txt

```

      0.00 0.00 3    0.00 0.00 1    0.34 C 10.11 1
MIN    0.04 10.11 2    -0.30 10.11 1
      0.00 10.11 1    0.00 10.11 1    0.21 C 0.00 2

800 MAX    0.03 0.00 1    0.12 0.00 1
      0.00 0.00 2    0.03 0.00 3    0.27 C 10.11 1
MIN    0.01 10.11 3    -0.13 10.11 1
      -0.01 10.11 3    -0.04 10.11 3    0.15 C 0.00 3

```

***** END OF FORCE ENVELOPE FROM INTERNAL STORAGE *****

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745. *HORIZ PLAN AT 109 JOINT
746. LOAD LIST 1 TO 3
747. PRINT MAXFORCE ENVELOPE LIST 13 15 19 58
CON ED L-17                      -- PAGE NO. 62

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MEMBER FORCE ENVELOPE

ALL UNITS ARE KIP FEET

MAX AND MIN FORCE VALUES AMONGST ALL SECTION LOCATIONS

MEMB	FY/	DIST	LD	MZ/	DIST	LD	
	FZ	DIST	LD	MY	DIST	LD	FX DIST LD
13 MAX	0.02	0.00	1	0.05	9.36	1	
	0.00	0.00	2	0.01	9.36	1	0.51 C 0.00 3
MIN	-0.03	9.36	1	-0.02	3.90	1	
	0.00	9.36	3	-0.01	0.00	2	0.56 T 9.36 2
15 MAX	0.03	0.00	1	0.04	10.28	1	
	0.00	0.00	3	0.02	0.00	2	0.61 C 0.00 3
MIN	-0.03	10.28	1	-0.03	5.14	1	
	0.00	10.28	2	-0.03	10.28	2	0.38 C 10.28 2
19 MAX	0.02	0.00	1	0.07	10.28	1	
	0.01	0.00	2	0.05	10.28	2	0.54 T 0.00 1
MIN	-0.03	10.28	1	-0.02	4.28	1	
	0.00	10.28	3	-0.04	0.00	2	0.66 T 10.28 3
58 MAX	0.03	0.00	1	0.04	0.00	1	
	-0.01	0.00	3	0.04	0.00	2	1.47 T 0.00 3
MIN	-0.02	9.36	1	-0.02	4.68	1	
	-0.01	9.36	2	-0.03	9.36	2	2.05 T 9.36 2

***** END OF FORCE ENVELOPE FROM INTERNAL STORAGE *****

748. *HORIZ PLAN AT 108 JOINT

749. *LOAD LIST 1 TO 3

750. PRINT MAXFORCE ENVELOPE LIST 1 TO 8

] CON ED L-17

-- PAGE NO. 63

MEMBER FORCE ENVELOPE

ALL UNITS ARE KIP FEET

MAX AND MIN FORCE VALUES AMONGST ALL SECTION LOCATIONS

MEMB	FY/	DIST	LD	MZ/	DIST	LD	FZ	DIST	LD	MY	DIST	LD	FX	DIST	LD
1 MAX	0.01	0.00	1	0.02	0.00	1									
	0.00	0.00	1	0.01	0.00	2	0.28 C	0.00	2						
1 MIN	-0.01	7.39	1	-0.01	3.70	1									
	0.00	7.39	2	-0.02	7.39	2	0.08 T	7.39	3						
2 MAX	0.01	0.00	1	0.02	7.39	1									
	0.00	0.00	2	0.01	7.39	3	0.69 C	0.00	2						
2 MIN	-0.01	7.39	1	-0.01	3.08	1									
	0.00	7.39	1	-0.02	0.00	2	0.00 T	7.39	3						
3 MAX	0.02	0.00	1	0.04	11.03	1									
	0.00	0.00	2	0.01	11.03	2	0.37 T	0.00	2						
3 MIN	-0.02	11.03	1	-0.02	5.52	1									
	0.00	11.03	3	-0.02	0.00	2	1.59 T	11.03	3						
4 MAX	0.02	0.00	1	0.04	11.03	1									
	0.00	0.00	3	0.02	0.00	2	0.09 C	0.00	2						
4 MIN	-0.02	11.03	1	-0.02	5.52	1									
	0.00	11.03	2	-0.01	11.03	2	0.94 T	11.03	3						
5 MAX	0.02	0.00	1	0.04	11.03	1									
	0.00	0.00	2	0.02	11.03	2	2.26 C	0.00	2						
5 MIN	-0.02	11.03	1	-0.02	5.52	1									
	0.00	11.03	3	-0.01	0.00	2	1.76 C	11.03	3						
6 MAX	0.02	0.00	1	0.04	11.03	1									
	0.00	0.00	3	0.01	0.00	2	2.73 C	0.00	2						
6 MIN	-0.02	11.03	1	-0.02	5.52	1									
	0.00	11.03	2	-0.02	11.03	2	2.34 C	11.03	1						
7 MAX	0.01	0.00	1	0.02	0.00	1									
	0.00	0.00	3	0.01	0.00	2	1.61 C	0.00	2						
7 MIN	-0.01	7.39	1	-0.01	3.70	1									
	0.00	7.39	2	0.00	7.39	2	1.15 C	7.39	3						
8 MAX	0.01	0.00	1	0.02	0.00	1									
	0.00	0.00	2	0.00	7.39	2	1.07 C	0.00	2						

MIN -0.01 7.39 1 -0.01 3.70 1
 0.00 7.39 3 -0.01 0.00 2 0.60 C 7.39 3
 CON ED L-17 -- PAGE NO. 64

***** END OF FORCE ENVELOPE FROM INTERNAL STORAGE *****

751. *****
 752. *HORIZONTAL
 753. *HORIZONTAL LEVEL 76*FACE 100 -400 & 200-300
 754. LOAD LIST 1 TO 3
 755. PRINT MAXFORCE ENVELOPE LIST 661 TO 663 881 TO 883 6208 8108
 CON ED L-17 -- PAGE NO. 65

MEMBER FORCE ENVELOPE

ALL UNITS ARE KIP FEET

MAX AND MIN FORCE VALUES AMONGST ALL SECTION LOCATIONS

MEMB	FY/	DIST	LD	MZ/	DIST	LD	
	FZ	DIST	LD	MY	DIST	LD	FX DIST LD
661 MAX	0.06	0.00	3	0.13	0.00	3	
	0.05	0.00	2	0.06	5.44	2	9.37 C 0.00 2
MIN	-0.01	5.44	1	-0.07	5.44	3	
	0.01	5.44	3	-0.19	0.00	2	5.98 C 5.44 3
662 MAX	0.04	0.00	1	0.19	9.83	3	
	0.02	0.00	2	0.14	9.83	2	7.59 C 0.00 2
MIN	-0.05	9.83	1	-0.01	4.10	1	
	0.01	9.83	3	-0.08	0.00	2	6.18 C 9.83 3
663 MAX	0.02	0.00	1	0.14	9.83	1	
	-0.02	0.00	3	0.17	0.00	2	0.12 T 0.00 2
MIN	-0.07	9.83	1	-0.14	1.64	3	
	-0.03	9.83	2	-0.08	9.83	2	3.57 T 9.83 3
881 MAX	0.06	0.00	3	0.13	0.00	3	
	-0.02	0.00	3	0.23	0.00	2	10.02 C 0.00 2
MIN	-0.01	5.44	1	-0.07	5.44	3	
	-0.06	5.44	2	-0.08	5.44	2	6.79 C 5.44 3
882 MAX	0.04	0.00	1	0.19	9.83	3	
	-0.01	0.00	3	0.07	0.00	2	8.22 C 0.00 2
MIN	-0.05	9.83	1	-0.01	4.10	1	
	-0.02	9.83	2	-0.12	9.83	2	6.78 C 9.83 3
883 MAX	0.02	0.00	1	0.14	9.83	1	

L-17.txt

```

    0.03 0.00 2    0.08 9.83 2    0.31 T 0.00 2
MIN  -0.07 9.83 1    -0.14 1.64 3
    0.02 9.83 3    -0.18 0.00 2    4.01 T 9.83 3

6208 MAX  0.07 0.00 3    0.18 0.00 3
      -0.05 0.00 3    0.08 0.00 2    3.24 C 0.00 2
MIN    0.02 5.44 1    -0.08 5.44 3
      -0.07 5.44 2    -0.28 5.44 2    0.81 T 5.44 3

8108 MAX  0.07 0.00 3    0.18 0.00 3
      0.07 0.00 2    0.29 5.44 2    3.09 C 0.00 2
MIN    0.02 5.44 1    -0.09 5.44 3
      0.05 5.44 3    -0.10 0.00 2    1.25 T 5.44 3
[] CON ED L-17                                -- PAGE NO. 66
```

***** END OF FORCE ENVELOPE FROM INTERNAL STORAGE *****

```

756. *HORIZONTAL LEVEL 81*FACE 100 -400 & 200-300
757. LOAD LIST 1 TO 3
758. PRINT MAXFORCE ENVELOPE LIST 664 TO 666 884 TO 886 6209 8109
[] CON ED L-17                                -- PAGE NO. 67
```

MEMBER FORCE ENVELOPE

ALL UNITS ARE KIP FEET

MAX AND MIN FORCE VALUES AMONGST ALL SECTION LOCATIONS

```

MEMB   FY/  DIST LD   MZ/  DIST LD
      FZ  DIST LD   MY  DIST LD   FX  DIST LD

664 MAX  0.04 0.00 1    0.10 0.00 3
      -0.01 0.00 1    0.08 0.00 2    8.56 T 0.00 3
MIN    -0.03 7.91 1    -0.02 5.93 3
      -0.01 7.91 3    -0.05 7.91 3    11.82 T 7.91 2

665 MAX  0.03 0.00 1    0.15 8.98 1
      0.02 0.00 2    0.11 8.98 2    8.19 T 0.00 3
MIN    -0.05 8.98 1    -0.01 2.99 1
      0.01 8.98 3    -0.09 0.00 2    10.92 T 8.98 2

666 MAX  0.04 0.00 1    0.07 8.98 1
      0.00 0.00 3    0.04 0.00 2    4.52 C 0.00 3
MIN    -0.05 8.98 1    -0.06 2.99 3
      -0.01 8.98 2    -0.08 8.98 2    1.09 T 8.98 2

884 MAX  0.05 0.00 1    0.12 0.00 3
      0.00 0.00 3    0.08 0.00 2    9.66 T 0.00 3
```

L-17.txt

```
MIN   -0.02  7.91  1   -0.03  6.59  3
      -0.01  7.91  2   -0.03  7.91  2   13.21 T  7.91  2

885 MAX   0.03  0.00  1    0.15  8.98  3
      0.03  0.00  2    0.15  8.98  2    8.69 T  0.00  3
MIN   -0.05  8.98  1   -0.01  2.99  1
      0.01  8.98  3   -0.12  0.00  2   11.55 T  8.98  2

886 MAX   0.03  0.00  1    0.08  8.98  1
      0.00  0.00  3    0.06  0.00  2    4.94 C  0.00  3
MIN   -0.05  8.98  1   -0.06  2.99  3
      -0.02  8.98  2   -0.11  8.98  2    0.96 T  8.98  2

6209 MAX   0.05  0.00  1    0.10  0.00  3
      0.00  0.00  1    0.02  0.00  2    2.24 C  0.00  3
MIN   -0.02  7.91  1   -0.06  6.59  3
      -0.01  7.91  3   -0.03  7.91  3    4.00 T  7.91  2

8109 MAX   0.05  0.00  1    0.11  0.00  3
      0.01  0.00  2    0.05  7.91  2    2.94 C  0.00  3
MIN   -0.02  7.91  1   -0.07  7.25  3
      0.00  7.91  3   -0.05  0.00  2    3.96 T  7.91  2
[] CON ED L-17                                -- PAGE NO. 68
```

***** END OF FORCE ENVELOPE FROM INTERNAL STORAGE *****

```
759. *
760. *FACE 100- 200 & FACE 300-400 HORIZ
761. LOAD LIST 1 TO 3
762. PRINT MAXFORCE ENVELOPE LIST 5101 5501 7301 7701
[] CON ED L-17                                -- PAGE NO. 69
```

MEMBER FORCE ENVELOPE

ALL UNITS ARE KIP FEET

MAX AND MIN FORCE VALUES AMONGST ALL SECTION LOCATIONS

```
MEMB   FY/  DIST LD   MZ/  DIST LD
      FZ  DIST LD   MY  DIST LD   FX  DIST LD

5101 MAX   0.03  0.00  1    0.06  0.00  1
      -0.05  0.00  2    0.19  0.00  1    0.10 T 11.25  2
MIN   -0.03 11.25  1   -0.03  5.62  1
      -0.06 11.25  1   -0.46 11.25  1    0.18 T  0.00  3

5501 MAX   0.03  0.00  1    0.06 11.25  1
      0.06  0.00  1    0.19 11.25  1    0.09 T  0.00  2
```

L-17.txt

```
MIN  -0.03 11.25  1  -0.03  4.69  1
      0.05 11.25  2  -0.46  0.00  1  0.17 T 11.25  3

7301 MAX  0.03  0.00  1  0.08  0.00  1
      -0.04  0.00  3  0.18  0.00  1  0.09 C 11.25  3
MIN  -0.02 11.25  1  -0.03  6.56  1
      -0.06 11.25  1  -0.44 11.25  1  0.07 C  0.00  2

7701 MAX  0.02  0.00  1  0.07 11.25  1
      0.06  0.00  1  0.18 11.25  1  0.08 C  0.00  3
MIN  -0.03 11.25  1  -0.03  4.69  1
      0.04 11.25  3  -0.44  0.00  1  0.05 C 11.25  2
```

***** END OF FORCE ENVELOPE FROM INTERNAL STORAGE *****

763. LOAD LIST 1 TO 3

764. PRINT MAXFORCE ENVELOPE LIST 5102 7302

CON ED L-17 -- PAGE NO. 70

MEMBER FORCE ENVELOPE

ALL UNITS ARE KIP FEET

MAX AND MIN FORCE VALUES AMONGST ALL SECTION LOCATIONS

```
MEMB  FY/  DIST LD  MZ/  DIST LD
      FZ  DIST LD  MY  DIST LD  FX  DIST LD

5102 MAX  0.08  0.00  1  0.26 19.99  1
      0.00  0.00  1  0.00 19.99  2  2.80 C  0.00  3
MIN  -0.08 19.99  1  -0.14 10.00  1
      0.00 19.99  3  -0.01  0.00  3  1.33 C 19.99  2

7302 MAX  0.08  0.00  1  0.26  0.00  1
      0.00  0.00  1  0.01 19.99  3  0.24 C  0.00  1
MIN  -0.08 19.99  1  -0.14 10.00  1
      0.00 19.99  3  0.00  0.00  1  0.18 C 19.99  3
```

***** END OF FORCE ENVELOPE FROM INTERNAL STORAGE *****

765. LOAD LIST 1 TO 3

766. PRINT MAXFORCE ENVELOPE LIST 5103 7303

CON ED L-17 -- PAGE NO. 71

MEMBER FORCE ENVELOPE

ALL UNITS ARE KIP FEET

MAX AND MIN FORCE VALUES AMONGST ALL SECTION LOCATIONS

MEMB	FY/	DIST	LD	MZ/	DIST	LD	
	FZ	DIST	LD	MY	DIST	LD	FX DIST LD
5103 MAX	0.07	0.00	1	0.16	16.25	1	
	0.00	0.00	3	0.00	16.25	2	3.15 C 0.00 3
MIN	-0.07	16.25	1	-0.11	8.12	1	
	0.00	16.25	2	0.00	0.00	3	1.23 C 16.25 2
7303 MAX	0.07	0.00	1	0.16	0.00	1	
	0.00	0.00	1	0.00	16.25	3	0.43 T 0.00 2
MIN	-0.06	16.25	1	-0.11	8.12	1	
	0.00	16.25	3	0.00	0.00	2	0.82 T 16.25 3

***** END OF FORCE ENVELOPE FROM INTERNAL STORAGE *****

767. LOAD LIST 1 TO 3

768. PRINT MAXFORCE ENVELOPE LIST 5104 7304

CON ED L-17 -- PAGE NO. 72

MEMBER FORCE ENVELOPE

ALL UNITS ARE KIP FEET

MAX AND MIN FORCE VALUES AMONGST ALL SECTION LOCATIONS

MEMB	FY/	DIST	LD	MZ/	DIST	LD	
	FZ	DIST	LD	MY	DIST	LD	FX DIST LD
5104 MAX	0.05	0.00	1	0.10	0.00	1	
	0.00	0.00	3	0.00	12.50	2	3.03 C 0.00 3
MIN	-0.05	12.50	1	-0.05	6.25	1	
	0.00	12.50	1	-0.01	0.00	3	1.38 C 12.50 2
7304 MAX	0.05	0.00	1	0.11	0.00	1	
	0.00	0.00	3	0.01	12.50	3	0.85 T 0.00 1
MIN	-0.05	12.50	1	-0.05	6.25	1	
	0.00	12.50	1	0.01	0.00	1	1.06 T 12.50 3

***** END OF FORCE ENVELOPE FROM INTERNAL STORAGE *****

769. LOAD LIST 1 TO 3

770. PRINT MAXFORCE ENVELOPE LIST 5106 7306

□ CON ED L-17

-- PAGE NO. 73

MEMBER FORCE ENVELOPE

ALL UNITS ARE KIP FEET

MAX AND MIN FORCE VALUES AMONGST ALL SECTION LOCATIONS

MEMB	FY/	DIST	LD	MZ/	DIST	LD			
	FZ	DIST	LD	MY	DIST	LD	FX	DIST	LD
5106 MAX	0.01	0.00	1	0.02	0.00	1			
	0.00	0.00	1	0.00	0.00	1	0.38 T	0.00	3
MIN	-0.01	7.95	1	-0.01	3.97	1			
	0.00	7.95	3	0.00	7.95	3	0.62 T	7.95	2
7306 MAX	0.01	0.00	1	0.02	7.95	1			
	0.00	0.00	3	0.02	0.00	3	0.08 C	0.00	3
MIN	-0.01	7.95	1	-0.01	3.97	1			
	0.00	7.95	2	0.01	7.95	2	0.32 T	7.95	2

***** END OF FORCE ENVELOPE FROM INTERNAL STORAGE *****

771. LOAD LIST 1 TO 3

772. PRINT MAXFORCE ENVELOPE LIST 5108 7308

□ CON ED L-17

-- PAGE NO. 74

MEMBER FORCE ENVELOPE

ALL UNITS ARE KIP FEET

MAX AND MIN FORCE VALUES AMONGST ALL SECTION LOCATIONS

MEMB	FY/	DIST	LD	MZ/	DIST	LD			
	FZ	DIST	LD	MY	DIST	LD	FX	DIST	LD
5108 MAX	0.01	0.00	1	0.00	5.00	1			
	0.00	0.00	3	0.00	0.00	2	0.62 C	0.00	3
MIN	-0.01	5.00	1	-0.01	2.50	1			
	0.00	5.00	2	0.00	0.00	3	0.40 T	5.00	2
7308 MAX	0.01	0.00	1	0.01	5.00	1			
	0.00	0.00	2	0.01	5.00	2	1.21 T	0.00	3

L-17.txt

MIN -0.01 5.00 1 -0.01 2.50 1
0.00 5.00 1 0.00 0.00 3 1.81 T 5.00 2

***** END OF FORCE ENVELOPE FROM INTERNAL STORAGE *****

773. LOAD LIST 1 TO 3

774. PRINT MAXFORCE ENVELOPE LIST 5109 7309

CON ED L-17 -- PAGE NO. 75

MEMBER FORCE ENVELOPE

ALL UNITS ARE KIP FEET

MAX AND MIN FORCE VALUES AMONGST ALL SECTION LOCATIONS

MEMB	FY/	DIST	LD	MZ/	DIST	LD	
	FZ	DIST	LD	MY	DIST	LD	FX DIST LD

5109 MAX	0.01	0.00	1	0.00	0.00	1	
	0.00	0.00	3	0.00	5.00	3	0.53 C 0.00 1
MIN	0.00	5.00	1	0.00	2.50	1	
	0.00	5.00	2	0.00	0.00	3	0.02 C 5.00 3

7309 MAX	0.01	0.00	1	0.00	0.00	1	
	0.00	0.00	2	0.01	5.00	2	0.91 C 0.00 1
MIN	0.00	5.00	1	0.00	2.50	1	
	0.00	5.00	3	-0.01	0.00	2	0.73 C 5.00 2

***** END OF FORCE ENVELOPE FROM INTERNAL STORAGE *****

775. *HORIZONTAL

776. *FACE 100-400 & 200-300 HPRIZ

777. LOAD LIST 1 TO 3

778. PRINT MAXFORCE ENVELOPE LIST 6201 6601 8401 8801

CON ED L-17 -- PAGE NO. 76

MEMBER FORCE ENVELOPE

ALL UNITS ARE KIP FEET

MAX AND MIN FORCE VALUES AMONGST ALL SECTION LOCATIONS

MEMB	FY/	DIST	LD	MZ/	DIST	LD	
------	-----	------	----	-----	------	----	--

L-17.txt

	FZ	DIST	LD		MY	DIST	LD		FX	DIST	LD
6201 MAX	0.02	0.00	1		0.07	11.25	3				
	-0.03	0.00	2		0.19	0.00	1		0.51 C	11.25	3
MIN	-0.03	11.25	1		-0.04	3.75	3				
	-0.04	11.25	1		-0.29	11.25	1		0.33 C	0.00	2
6601 MAX	0.03	0.00	1		0.07	0.00	3				
	0.04	0.00	1		0.18	11.25	1		0.04 T	0.00	1
MIN	-0.03	11.25	1		-0.02	5.62	1				
	0.03	11.25	2		-0.29	0.00	1		0.10 T	11.25	3
8401 MAX	0.03	0.00	1		0.07	11.25	3				
	-0.03	0.00	2		0.18	0.00	1		0.03 T	11.25	1
MIN	-0.03	11.25	1		-0.02	5.62	1				
	-0.04	11.25	1		-0.29	11.25	1		0.09 T	0.00	3
8801 MAX	0.03	0.00	1		0.07	0.00	3				
	0.04	0.00	1		0.20	11.25	1		0.53 C	0.00	3
MIN	-0.02	11.25	1		-0.04	7.50	3				
	0.03	11.25	2		-0.29	0.00	1		0.35 C	11.25	2

***** END OF FORCE ENVELOPE FROM INTERNAL STORAGE *****

779. LOAD LIST 1 TO 3

780. PRINT MAXFORCE ENVELOPE LIST 6202 8402

□ CON ED L-17

-- PAGE NO. 77

MEMBER FORCE ENVELOPE

ALL UNITS ARE KIP FEET

MAX AND MIN FORCE VALUES AMONGST ALL SECTION LOCATIONS

	MEMB	FY/	DIST	LD		MZ/	DIST	LD				
		FZ	DIST	LD		MY	DIST	LD		FX	DIST	LD
6202 MAX		0.07	0.00	1		0.32	19.99	1				
		0.00	0.00	2		0.01	0.00	3		5.45 C	0.00	3
MIN		-0.09	19.99	1		-0.15	8.33	1				
		0.00	19.99	3		-0.01	19.99	3		3.09 C	19.99	2
8402 MAX		0.09	0.00	1		0.33	0.00	1				
		0.00	0.00	3		0.01	19.99	3		5.72 C	0.00	3
MIN		-0.07	19.99	1		-0.15	11.66	1				
		0.00	19.99	2		0.00	0.00	3		3.36 C	19.99	2

***** END OF FORCE ENVELOPE FROM INTERNAL STORAGE *****

781. LOAD LIST 1 TO 3

782. PRINT MAXFORCE ENVELOPE LIST 6203 8403

|| CON ED L-17 -- PAGE NO. 78

MEMBER FORCE ENVELOPE

ALL UNITS ARE KIP FEET

MAX AND MIN FORCE VALUES AMONGST ALL SECTION LOCATIONS

MEMB	FY/	DIST	LD	MZ/	DIST	LD			
	FZ	DIST	LD	MY	DIST	LD	FX	DIST	LD
6203 MAX	0.06	0.00	1	0.17	16.25	1			
	0.00	0.00	3	0.00	16.25	3	4.77 C	0.00	3
MIN	-0.07	16.25	1	-0.11	8.12	1			
	0.00	16.25	2	0.00	0.00	3	2.88 C	16.25	2
8403 MAX	0.07	0.00	1	0.17	0.00	1			
	0.00	0.00	2	0.00	16.25	2	5.02 C	0.00	3
MIN	-0.06	16.25	1	-0.11	8.12	1			
	0.00	16.25	3	0.00	16.25	3	3.13 C	16.25	2

***** END OF FORCE ENVELOPE FROM INTERNAL STORAGE *****

783. LOAD LIST 1 TO 3

784. PRINT MAXFORCE ENVELOPE LIST 6204 8404

|| CON ED L-17 -- PAGE NO. 79

MEMBER FORCE ENVELOPE

ALL UNITS ARE KIP FEET

MAX AND MIN FORCE VALUES AMONGST ALL SECTION LOCATIONS

MEMB	FY/	DIST	LD	MZ/	DIST	LD			
	FZ	DIST	LD	MY	DIST	LD	FX	DIST	LD
6204 MAX	0.05	0.00	1	0.13	12.50	1			
	0.00	0.00	1	0.02	0.00	3	5.37 C	0.00	1
MIN	-0.06	12.50	1	-0.05	5.21	1			
	0.00	12.50	3	-0.02	12.50	3	4.85 C	12.50	3

L-17.txt

8404 MAX 0.06 0.00 1 0.14 0.00 1
0.00 0.00 3 0.02 12.50 3 5.46 C 0.00 1
MIN -0.04 12.50 1 -0.05 7.29 1
0.00 12.50 1 -0.02 0.00 3 4.96 C 12.50 3

***** END OF FORCE ENVELOPE FROM INTERNAL STORAGE *****

785. *
786. *
787. *ARM MEMBERS
788. LOAD LIST 1 TO 3
789. PRINT MAXFORCE ENVELOPE LIST 1001 1002 1005 1006
CON ED L-17 -- PAGE NO. 80

MEMBER FORCE ENVELOPE

ALL UNITS ARE KIP FEET

MAX AND MIN FORCE VALUES AMONGST ALL SECTION LOCATIONS

MEMB	FY/	DIST	LD	MZ/	DIST	LD			
	FZ	DIST	LD	MY	DIST	LD	FX	DIST	LD
1001 MAX	0.03	0.00	1	0.25	11.01	1			
	-0.01	0.00	3	0.04	0.00	2	11.19 C	0.00	2
MIN	-0.08	11.01	1	-0.06	2.75	1			
	-0.01	11.01	2	-0.07	11.01	2	7.09 C	11.01	3
1002 MAX	0.03	0.00	1	0.25	11.01	1			
	0.01	0.00	2	0.06	11.01	2	11.36 C	0.00	2
MIN	-0.08	11.01	1	-0.06	2.75	1			
	0.01	11.01	3	-0.04	0.00	2	7.13 C	11.01	3
1005 MAX	0.03	0.00	1	0.20	11.01	1			
	0.01	0.00	2	0.06	11.01	2	7.28 C	0.00	2
MIN	-0.07	11.01	1	-0.07	3.67	1			
	0.00	11.01	3	-0.04	0.00	2	0.54 C	11.01	3
1006 MAX	0.03	0.00	1	0.21	11.01	1			
	0.00	0.00	3	0.04	0.00	2	7.48 C	0.00	2
MIN	-0.07	11.01	1	-0.07	3.67	3			
	-0.01	11.01	2	-0.05	11.01	2	0.62 C	11.01	3

***** END OF FORCE ENVELOPE FROM INTERNAL STORAGE *****

790. *
791. LOAD LIST 1 TO 3

792. PRINT MAXFORCE ENVELOPE LIST 1003 1004 1007 1008

CON ED L-17

-- PAGE NO. 81

MEMBER FORCE ENVELOPE

ALL UNITS ARE KIP FEET

MAX AND MIN FORCE VALUES AMONGST ALL SECTION LOCATIONS

MEMB	FY/	DIST	LD	MZ/	DIST	LD	
	FZ	DIST	LD	MY	DIST	LD	FX DIST LD

1003 MAX	0.01	0.00	1	0.04	10.69	1	
	0.00	0.00	2	0.00	10.69	3	4.37 T 0.00 3
MIN	-0.02	10.69	1	-0.01	4.45	1	
	0.00	10.69	3	0.00	0.00	2	10.58 T 10.69 2

1004 MAX	0.01	0.00	1	0.04	10.69	1	
	0.00	0.00	3	0.00	0.00	2	4.40 T 0.00 3
MIN	-0.02	10.69	1	-0.01	4.45	1	
	0.00	10.69	2	0.00	10.69	2	10.75 T 10.69 2

1007 MAX	0.01	0.00	1	0.04	10.69	1	
	0.00	0.00	3	0.01	10.69	3	4.36 T 0.00 3
MIN	-0.02	10.69	1	-0.01	4.45	1	
	0.00	10.69	2	0.00	0.00	3	10.57 T 10.69 2

1008 MAX	0.01	0.00	1	0.04	10.69	1	
	0.00	0.00	2	0.00	10.69	2	4.44 T 0.00 3
MIN	-0.02	10.69	1	-0.01	4.45	1	
	0.00	10.69	3	0.00	0.00	2	10.77 T 10.69 2

***** END OF FORCE ENVELOPE FROM INTERNAL STORAGE *****

793. *HORIZ BRACE AT C-C \$ D-D

794. LOAD LIST 1 TO 3

795. PRINT MAXFORCE ENVELOPE LIST 52 53 56 57

CON ED L-17

-- PAGE NO. 82

MEMBER FORCE ENVELOPE

ALL UNITS ARE KIP FEET

MAX AND MIN FORCE VALUES AMONGST ALL SECTION LOCATIONS

MEMB	FY/	DIST	LD	MZ/	DIST	LD	FX	DIST	LD
	FZ	DIST	LD	MY	DIST	LD			
52 MAX	0.00	0.00	1	0.00	0.00	1			
	0.00	0.00	1	0.00	0.00	1	0.00	0.00	1
MIN	0.00	17.68	3	0.00	17.68	3			
	0.00	17.68	3	0.00	17.68	3	0.00	17.68	3
53 MAX	0.00	0.00	1	0.00	0.00	1			
	0.00	0.00	1	0.00	0.00	1	0.00	0.00	1
MIN	0.00	17.68	3	0.00	17.68	3			
	0.00	17.68	3	0.00	17.68	3	0.00	17.68	3
56 MAX	0.00	0.00	1	0.00	0.00	1			
	0.00	0.00	1	0.00	0.00	1	0.00	0.00	1
MIN	0.00	28.27	3	0.00	28.27	3			
	0.00	28.27	3	0.00	28.27	3	0.00	28.27	3
57 MAX	0.00	0.00	1	0.00	0.00	1			
	0.00	0.00	1	0.00	0.00	1	0.00	0.00	1
MIN	0.00	28.27	3	0.00	28.27	3			
	0.00	28.27	3	0.00	28.27	3	0.00	28.27	3

***** END OF FORCE ENVELOPE FROM INTERNAL STORAGE *****

796. LOAD LIST 1 TO 3

797. PRINT MAXFORCE ENVELOPE LIST 1 TO 8

CON ED L-17

-- PAGE NO. 83

MEMBER FORCE ENVELOPE

ALL UNITS ARE KIP FEET

MAX AND MIN FORCE VALUES AMONGST ALL SECTION LOCATIONS

MEMB	FY/	DIST	LD	MZ/	DIST	LD	FX	DIST	LD
	FZ	DIST	LD	MY	DIST	LD			
1 MAX	0.01	0.00	1	0.02	0.00	1			
	0.00	0.00	1	0.01	0.00	2	0.28 C	0.00	2
MIN	-0.01	7.39	1	-0.01	3.70	1			
	0.00	7.39	2	-0.02	7.39	2	0.08 T	7.39	3
2 MAX	0.01	0.00	1	0.02	7.39	1			
	0.00	0.00	2	0.01	7.39	3	0.69 C	0.00	2
MIN	-0.01	7.39	1	-0.01	3.08	1			
	0.00	7.39	1	-0.02	0.00	2	0.00 T	7.39	3
3 MAX	0.02	0.00	1	0.04	11.03	1			

L-17.txt

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      0.00 0.00 2    0.01 11.03 2    0.37 T 0.00 2
MIN   -0.02 11.03 1   -0.02 5.52 1
      0.00 11.03 3   -0.02 0.00 2    1.59 T 11.03 3

4 MAX   0.02 0.00 1    0.04 11.03 1
      0.00 0.00 3    0.02 0.00 2    0.09 C 0.00 2
MIN   -0.02 11.03 1   -0.02 5.52 1
      0.00 11.03 2   -0.01 11.03 2    0.94 T 11.03 3

5 MAX   0.02 0.00 1    0.04 11.03 1
      0.00 0.00 2    0.02 11.03 2    2.26 C 0.00 2
MIN   -0.02 11.03 1   -0.02 5.52 1
      0.00 11.03 3   -0.01 0.00 2    1.76 C 11.03 3

6 MAX   0.02 0.00 1    0.04 11.03 1
      0.00 0.00 3    0.01 0.00 2    2.73 C 0.00 2
MIN   -0.02 11.03 1   -0.02 5.52 1
      0.00 11.03 2   -0.02 11.03 2    2.34 C 11.03 1

7 MAX   0.01 0.00 1    0.02 0.00 1
      0.00 0.00 3    0.01 0.00 2    1.61 C 0.00 2
MIN   -0.01 7.39 1   -0.01 3.70 1
      0.00 7.39 2    0.00 7.39 2    1.15 C 7.39 3

8 MAX   0.01 0.00 1    0.02 0.00 1
      0.00 0.00 2    0.00 7.39 2    1.07 C 0.00 2
MIN   -0.01 7.39 1   -0.01 3.70 1
      0.00 7.39 3   -0.01 0.00 2    0.60 C 7.39 3
11 CON ED L-17                                -- PAGE NO. 84

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***** END OF FORCE ENVELOPE FROM INTERNAL STORAGE *****

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798. *****
799. *****
800. *****
801. *EXISTING CONDITION
802. *LEGS
803. LOAD LIST 4 TO 6
804. PRINT MAXFORCE ENVELOPE LIST 112 212 312 412
11 CON ED L-17                                -- PAGE NO. 85

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MEMBER FORCE ENVELOPE

ALL UNITS ARE KIP FEET

MAX AND MIN FORCE VALUES AMONGST ALL SECTION LOCATIONS

MEMB FY/ DIST LD MZ/ DIST LD

	FZ	DIST	LD	MY	DIST	LD	FX	DIST	LD
112 MAX	0.02	0.00	4	0.12	17.30	4			
	0.00	0.00	6	0.04	17.30	6	13.31 T	0.00	5
MIN	-0.03	17.30	4	-0.07	5.77	4			
	0.00	17.30	4	0.00	17.30	4	31.73 T	17.30	6
212 MAX	0.02	0.00	4	0.12	17.30	4			
	0.00	0.00	4	0.00	17.30	4	13.39 T	0.00	5
MIN	-0.03	17.30	4	-0.07	5.77	4			
	0.00	17.30	6	-0.04	17.30	6	31.83 T	17.30	6
312 MAX	0.02	0.00	4	0.12	17.30	4			
	0.00	0.00	4	0.08	17.30	4	56.48 C	0.00	6
MIN	-0.03	17.30	4	-0.06	5.77	4			
	0.00	17.30	5	0.00	0.00	6	45.12 C	17.30	4
412 MAX	0.02	0.00	4	0.13	17.30	4			
	0.00	0.00	5	0.00	0.00	5	56.38 C	0.00	6
MIN	-0.03	17.30	4	-0.06	5.77	4			
	0.00	17.30	4	-0.08	17.30	4	45.05 C	17.30	4

***** END OF FORCE ENVELOPE FROM INTERNAL STORAGE *****

805. LOAD LIST 4 TO 6

806. PRINT MAXFORCE ENVELOPE LIST 111 211 311 411

□ CON ED L-17 -- PAGE NO. 86

MEMBER FORCE ENVELOPE

ALL UNITS ARE KIP FEET

MAX AND MIN FORCE VALUES AMONGST ALL SECTION LOCATIONS

	MEMB	FY/	DIST	LD	MZ/	DIST	LD			
		FZ	DIST	LD	MY	DIST	LD	FX	DIST	LD
111 MAX		0.02	0.00	6	0.03	8.14	4			
		-0.03	0.00	5	0.05	0.00	6	13.62 T	0.00	5
MIN		-0.02	8.14	4	-0.05	6.78	6			
		-0.05	8.14	6	-0.40	8.14	6	31.91 T	8.14	6
211 MAX		0.02	0.00	6	0.03	8.14	4			
		0.05	0.00	6	0.40	8.14	6	13.70 T	0.00	5
MIN		-0.02	8.14	4	-0.05	6.78	6			
		0.03	8.14	5	-0.05	0.00	6	32.01 T	8.14	6
311 MAX		-0.01	0.00	5	0.15	8.14	4			
		-0.02	0.00	5	0.07	0.00	4	56.17 C	0.00	6

L-17.txt

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MIN   -0.04  8.14  4   -0.06  0.00  6
      -0.03  8.14  6   -0.16  8.14  6  44.88 C  8.14  4

411 MAX  -0.01  0.00  5    0.15  8.14  4
      0.03  0.00  6    0.15  8.14  6  56.07 C  0.00  6
MIN   -0.04  8.14  4   -0.06  0.00  6
      0.02  8.14  5   -0.07  0.00  4  44.81 C  8.14  4

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***** END OF FORCE ENVELOPE FROM INTERNAL STORAGE *****

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807. *
808. LOAD LIST 4 TO 6
809. PRINT MAXFORCE ENVELOPE LIST 100 101 200 201 300 301 400 401
CON ED L-17                      -- PAGE NO.  87

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MEMBER FORCE ENVELOPE

ALL UNITS ARE KIP FEET

MAX AND MIN FORCE VALUES AMONGST ALL SECTION LOCATIONS

MEMB	FY/	DIST	LD	MZ/	DIST	LD			
	FZ	DIST	LD	MY	DIST	LD	FX	DIST	LD
100 MAX	-0.05	0.00	5	0.40	7.12	6			
	0.23	0.00	6	1.25	7.12	6	13.87 T	0.00	5
MIN	-0.10	7.12	6	-0.28	0.00	6			
	0.14	7.12	5	-0.42	0.00	6	32.07 T	7.12	6
101 MAX	0.06	0.00	6	0.41	0.00	6			
	-0.13	0.00	5	1.28	0.00	6	13.98 T	0.00	5
MIN	0.00	8.14	4	0.01	8.14	6			
	-0.22	8.14	6	-0.49	8.14	6	32.19 T	8.14	6
200 MAX	-0.05	0.00	5	0.40	7.12	6			
	-0.14	0.00	5	0.42	0.00	6	13.96 T	0.00	5
MIN	-0.10	7.12	6	-0.28	0.00	6			
	-0.23	7.12	6	-1.25	7.12	6	32.19 T	7.12	6
201 MAX	0.06	0.00	6	0.41	0.00	6			
	0.22	0.00	6	0.49	8.14	6	14.07 T	0.00	5
MIN	0.00	8.14	4	0.01	8.14	6			
	0.13	8.14	5	-1.28	0.00	6	32.31 T	8.14	6
300 MAX	0.03	0.00	6	-0.04	0.00	5			
	-0.02	0.00	5	-0.13	0.00	5	50.90 C	0.00	6
MIN	0.00	7.12	4	-0.18	7.12	6			
	-0.03	7.12	6	-0.47	7.12	6	40.78 C	7.12	4

L-17.txt

301 MAX -0.04 0.00 5 0.33 8.14 4
0.09 0.00 6 0.25 8.14 6 50.77 C 0.00 6
MIN -0.08 8.14 4 -0.22 0.00 6
0.05 8.14 5 -0.45 0.00 6 40.60 C 8.14 4

400 MAX 0.03 0.00 6 -0.05 0.00 5
0.04 0.00 6 0.47 7.12 6 50.79 C 0.00 6
MIN 0.00 7.12 4 -0.18 7.12 6
0.03 7.12 5 0.13 0.00 5 40.70 C 7.12 4

401 MAX -0.04 0.00 5 0.33 8.14 4
-0.05 0.00 5 0.46 0.00 6 50.66 C 0.00 6
MIN -0.08 8.14 4 -0.22 0.00 6
-0.09 8.14 6 -0.25 8.14 6 40.52 C 8.14 4

CON ED L-17 -- PAGE NO. 88

***** END OF FORCE ENVELOPE FROM INTERNAL STORAGE *****

810. *

811. LOAD LIST 4 TO 6

812. PRINT MAXFORCE ENVELOPE LIST 102 103 202 203 302 303 402 403

CON ED L-17 -- PAGE NO. 89

MEMBER FORCE ENVELOPE

ALL UNITS ARE KIP FEET

MAX AND MIN FORCE VALUES AMONGST ALL SECTION LOCATIONS

MEMB FY/ DIST LD MZ/ DIST LD
FZ DIST LD MY DIST LD FX DIST LD

102 MAX -0.01 0.00 5 0.28 14.25 4
0.04 0.00 6 0.18 14.25 6 11.56 T 0.00 4
MIN -0.05 14.25 4 -0.21 0.00 6
0.03 14.25 5 -0.42 0.00 6 27.54 T 14.25 6

103 MAX 0.01 0.00 6 0.11 14.25 4
-0.01 0.00 5 0.19 0.00 6 8.46 T 0.00 4
MIN -0.03 14.25 4 -0.08 2.37 4
-0.02 14.25 6 -0.08 14.25 6 22.03 T 14.25 6

202 MAX -0.01 0.00 5 0.28 14.25 4
-0.03 0.00 5 0.42 0.00 6 11.64 T 0.00 4
MIN -0.05 14.25 4 -0.21 0.00 6
-0.04 14.25 6 -0.18 14.25 6 27.65 T 14.25 6

203 MAX 0.01 0.00 6 0.11 14.25 4

L-17.txt

```

      0.02 0.00 6    0.08 14.25 6    8.55 T 0.00 4
MIN   -0.03 14.25 4   -0.08 2.37 4
      0.01 14.25 5   -0.19 0.00 6   22.15 T 14.25 6

302 MAX   0.00 0.00 6    0.23 14.25 4
      -0.01 0.00 5    0.19 0.00 6   45.12 C 0.00 6
MIN     -0.04 14.25 4   -0.08 0.00 4
      -0.02 14.25 6   -0.12 14.25 6   36.56 C 14.25 4

303 MAX   0.00 0.00 5    0.13 14.25 4
      0.01 0.00 6    0.07 14.25 6   40.43 C 0.00 6
MIN     -0.04 14.25 4   -0.15 0.00 4
      0.01 14.25 4   -0.13 0.00 6   33.26 C 14.25 4

402 MAX   0.00 0.00 6    0.23 14.25 4
      0.02 0.00 6    0.11 14.25 6   45.00 C 0.00 6
MIN     -0.04 14.25 4   -0.08 0.00 4
      0.01 14.25 5   -0.19 0.00 6   36.48 C 14.25 4

403 MAX   0.00 0.00 5    0.13 14.25 4
      -0.01 0.00 5    0.13 0.00 6   40.32 C 0.00 6
MIN     -0.04 14.25 4   -0.15 0.00 4
      -0.01 14.25 6   -0.05 14.25 6   33.18 C 14.25 4
1  CON ED L-17                                -- PAGE NO. 90

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***** END OF FORCE ENVELOPE FROM INTERNAL STORAGE *****

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813. *
814. LOAD LIST 4 TO 6
815. PRINT MAXFORCE ENVELOPE LIST 104 TO 107 204 TO 207 304 TO 307 404 TO 407
1  CON ED L-17                                -- PAGE NO. 91

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MEMBER FORCE ENVELOPE

ALL UNITS ARE KIP FEET

MAX AND MIN FORCE VALUES AMONGST ALL SECTION LOCATIONS

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MEMB   FY/  DIST LD   MZ/  DIST LD
      FZ  DIST LD   MY  DIST LD   FX  DIST LD

104 MAX   0.02 0.00 6    0.05 9.00 4
      0.01 0.00 4    0.05 9.00 4    3.37 T 0.00 5
MIN     -0.02 9.00 4   -0.01 5.25 6
      0.00 9.00 6   -0.06 0.00 4   14.25 T 9.00 6

105 MAX   0.04 0.00 4    0.03 0.00 4
      0.05 0.00 6    0.36 9.00 6    3.11 T 0.00 5

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MIN    0.01  9.00  4   -0.19  9.00  5
      0.04  9.00  5   -0.08  0.00  4   13.41 T  9.00  6

106 MAX  -0.03  0.00  4    0.19  5.83  6
      -0.03  0.00  4    0.22  0.00  6   21.02 C  0.00  5
MIN    -0.07  5.83  6   -0.18  0.00  6
      -0.05  5.83  6   -0.08  5.83  6   16.66 C  5.83  6

107 MAX   0.03  0.00  6    0.18  0.00  6
      -0.02  0.00  6   -0.04  0.00  4   20.62 C  0.00  5
MIN    -0.01  5.83  4    0.07  5.83  6
      -0.03  5.83  5   -0.24  5.83  5   16.30 C  5.83  6

204 MAX   0.02  0.00  6    0.05  9.00  4
      0.00  0.00  6    0.06  0.00  4    3.45 T  0.00  5
MIN    -0.02  9.00  4   -0.01  5.25  6
      -0.01  9.00  4   -0.05  9.00  4   14.40 T  9.00  6

205 MAX   0.04  0.00  4    0.03  0.00  4
      -0.04  0.00  5    0.09  0.00  4    3.29 T  0.00  5
MIN     0.01  9.00  4   -0.19  9.00  5
      -0.05  9.00  6   -0.37  9.00  6   13.72 T  9.00  6

206 MAX  -0.04  0.00  4    0.19  5.83  6
      0.06  0.00  6    0.12  5.83  6   20.78 C  0.00  5
MIN    -0.07  5.83  6   -0.18  0.00  6
      0.04  5.83  4   -0.24  0.00  6   16.43 C  5.83  6

207 MAX   0.03  0.00  6    0.19  0.00  6
      0.02  0.00  5    0.18  5.83  5   20.21 C  0.00  5
MIN    -0.01  5.83  4    0.06  5.83  6
      0.00  5.83  6    0.08  0.00  4   15.91 C  5.83  6

304 MAX   0.00  0.00  4    0.11  9.00  4
      0.03  0.00  4    0.11  9.00  4   24.01 C  0.00  5
CON ED L-17                                     -- PAGE NO. 92

MIN    -0.03  9.00  4   -0.01  0.00  6
      0.02  9.00  5   -0.12  0.00  4   21.56 C  9.00  4

305 MAX   0.03  0.00  4    0.09  0.00  4
      -0.01  0.00  4   -0.01  0.00  5   22.92 C  0.00  5
MIN    -0.01  9.00  6   -0.01  7.50  4
      -0.02  9.00  6   -0.19  9.00  6   20.50 C  9.00  4

306 MAX   0.08  0.00  6    0.22  0.00  6
      0.08  0.00  6    0.17  5.83  6    5.63 C  0.00  5
MIN     0.03  5.83  4   -0.17  5.83  6
      0.07  5.83  4   -0.32  0.00  6    5.26 T  5.83  6

307 MAX  -0.03  0.00  4    0.12  5.83  5
      -0.01  0.00  6    0.15  0.00  6    5.54 C  0.00  5
MIN    -0.05  5.83  6   -0.16  0.00  6
      -0.03  5.83  5   -0.05  5.83  5    5.17 T  5.83  6

```

L-17.txt

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404 MAX   0.00  0.00  4   0.11  9.00  4
      -0.02  0.00  5   0.12  0.00  4  23.85 C  0.00  5
      MIN  -0.03  9.00  4   -0.01  0.75  4
      -0.03  9.00  4   -0.11  9.00  4  21.41 C  9.00  4

405 MAX   0.03  0.00  4   0.09  0.00  4
      0.02  0.00  6   0.20  9.00  6  22.57 C  0.00  5
      MIN  -0.01  9.00  6   0.00  6.75  4
      0.01  9.00  4   0.01  0.00  5  20.20 C  9.00  4

406 MAX   0.08  0.00  6   0.23  0.00  6
      -0.07  0.00  4   0.33  0.00  6  5.65 C  0.00  5
      MIN   0.03  5.83  5   -0.18  5.83  6
      -0.09  5.83  6   -0.20  5.83  6  5.49 T  5.83  6

407 MAX  -0.02  0.00  4   0.11  5.83  5
      0.03  0.00  5   0.06  5.83  5  5.50 C  0.00  5
      MIN  -0.05  5.83  6   -0.17  0.00  6
      0.02  5.83  6   -0.17  0.00  6  5.42 T  5.83  6

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***** END OF FORCE ENVELOPE FROM INTERNAL STORAGE *****

816. *

817. LOAD LIST 4 TO 6

818. PRINT MAXFORCE ENVELOPE LIST 108 109 208 209 308 309 408 409

□ CON ED L-17 -- PAGE NO. 93

MEMBER FORCE ENVELOPE

ALL UNITS ARE KIP FEET

MAX AND MIN FORCE VALUES AMONGST ALL SECTION LOCATIONS

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MEMB      FY/  DIST LD      MZ/  DIST LD
          FZ  DIST LD      MY  DIST LD      FX  DIST LD

108 MAX   0.07  0.00  5   0.17  0.00  5
          0.06  0.00  5   0.08  5.25  5  11.90 C  0.00  5
      MIN   0.05  5.25  4   -0.17  5.25  5
          0.05  5.25  6   -0.24  0.00  5  7.94 C  5.25  6

109 MAX   0.02  0.00  6   0.01  0.00  6
          0.00  0.00  6   0.14  0.00  5  1.94 C  0.00  5
      MIN  -0.02  5.82  4   -0.02  2.42  4
          -0.02  5.82  5   0.05  5.82  5  0.03 C  5.82  6

208 MAX   0.07  0.00  5   0.16  0.00  5
          -0.05  0.00  4   0.19  0.00  5  11.79 C  0.00  5
      MIN   0.04  5.25  4   -0.16  5.25  5

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L-17.txt

-0.05 5.25 5 -0.08 5.25 6 7.59 C 5.25 6

209 MAX 0.02 0.00 4 0.01 0.00 6
0.00 0.00 5 -0.05 0.00 4 2.24 C 0.00 5
MIN -0.02 5.82 4 -0.02 2.91 4
-0.01 5.82 4 -0.10 5.82 4 0.30 T 5.82 6

308 MAX 0.00 0.00 4 0.07 5.25 6
0.01 0.00 4 0.04 0.00 6 6.46 C 0.00 5
MIN -0.04 5.25 6 -0.10 0.00 6
-0.01 5.25 6 -0.05 0.00 5 0.79 T 5.25 6

309 MAX 0.02 0.00 4 0.01 5.82 6
0.03 0.00 6 0.12 5.82 4 4.71 C 0.00 5
MIN -0.02 5.82 4 -0.02 2.91 4
0.02 5.82 5 -0.10 0.00 6 1.84 C 5.82 6

408 MAX 0.01 0.00 5 0.05 5.25 6
0.00 0.00 6 0.09 0.00 5 5.93 C 0.00 5
MIN -0.03 5.25 6 -0.09 0.00 6
-0.02 5.25 5 -0.04 5.25 5 1.20 T 5.25 6

409 MAX 0.01 0.00 4 0.03 5.82 6
0.01 0.00 5 0.01 0.00 6 3.53 C 0.00 5
MIN -0.02 5.82 4 -0.02 1.94 4
-0.01 5.82 6 -0.07 0.00 5 1.02 C 5.82 6

CON ED L-17 -- PAGE NO. 94

***** END OF FORCE ENVELOPE FROM INTERNAL STORAGE *****

819. *

820. *DIAGONALS (BOTTOM FACE)

821. *

822. LOAD LIST 4 TO 6

823. PRINT MAXFORCE ENVELOPE LIST 1112 1212 2212 2312 3312 3412 4112 4412

CON ED L-17 -- PAGE NO. 95

MEMBER FORCE ENVELOPE

ALL UNITS ARE KIP FEET

MAX AND MIN FORCE VALUES AMONGST ALL SECTION LOCATIONS

MEMB	FY/	DIST	LD	MZ/	DIST	LD			
	FZ	DIST	LD	MY	DIST	LD	FX	DIST	LD

1112 MAX	0.04	0.00	4	0.00	0.00	4			
	0.00	0.00	4	0.00	0.00	4	1.54 T	0.00	4

L-17.txt

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MIN   -0.04 21.54 4   0.00 21.54 6
      0.00 21.54 6   0.00 21.54 6   4.12 T 21.54 6

1212 MAX   0.04 0.00 4   0.00 0.00 4
      0.00 0.00 4   0.00 0.00 4   1.54 T 0.00 4
MIN   -0.04 21.54 4   0.00 21.54 6
      0.00 21.54 6   0.00 21.54 6   4.12 T 21.54 6

2212 MAX   0.04 0.00 4   0.00 0.00 4
      0.00 0.00 4   0.00 0.00 4   4.24 T 0.00 5
MIN   -0.04 21.54 4   0.00 21.54 6
      0.00 21.54 6   0.00 21.54 6   8.52 T 21.54 6

2312 MAX   0.00 0.00 4   0.00 0.00 4
      0.00 0.00 4   0.00 0.00 4   0.00 0.00 4
MIN   0.00 21.54 6   0.00 21.54 6
      0.00 21.54 6   0.00 21.54 6   0.00 21.54 6

3312 MAX   0.00 0.00 4   0.00 0.00 4
      0.00 0.00 4   0.00 0.00 4   0.00 0.00 4
MIN   0.00 21.54 6   0.00 21.54 6
      0.00 21.54 6   0.00 21.54 6   0.00 21.54 6

3412 MAX   0.00 0.00 4   0.00 0.00 4
      0.00 0.00 4   0.00 0.00 4   0.00 0.00 4
MIN   0.00 21.54 6   0.00 21.54 6
      0.00 21.54 6   0.00 21.54 6   0.00 21.54 6

4112 MAX   0.04 0.00 4   0.00 0.00 4
      0.00 0.00 4   0.00 0.00 4   4.24 T 0.00 5
MIN   -0.04 21.54 4   0.00 21.54 6
      0.00 21.54 6   0.00 21.54 6   8.52 T 21.54 6

4412 MAX   0.00 0.00 4   0.00 0.00 4
      0.00 0.00 4   0.00 0.00 4   0.00 0.00 4
MIN   0.00 21.54 6   0.00 21.54 6
      0.00 21.54 6   0.00 21.54 6   0.00 21.54 6
17 CON ED L-17                                -- PAGE NO. 96

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***** END OF FORCE ENVELOPE FROM INTERNAL STORAGE *****

824. *

825. LOAD LIST 4 TO 6

826. PRINT MAXFORCE ENVELOPE LIST 1111 1211 2211 2311 3311 3411 4111 4411

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17 CON ED L-17                                -- PAGE NO. 97

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MEMBER FORCE ENVELOPE

ALL UNITS ARE KIP FEET

MAX AND MIN FORCE VALUES AMONGST ALL SECTION LOCATIONS

MEMB	FY/	DIST	LD	MZ/	DIST	LD			
	FZ	DIST	LD	MY	DIST	LD	FX	DIST	LD
1111 MAX	0.05	0.00	4	0.11	0.00	4			
	-0.01	0.00	5	0.04	0.00	4	0.03 C	13.23	4
MIN	-0.05	13.23	4	-0.05	6.61	4			
	-0.01	13.23	4	-0.11	13.23	4	0.01 C	0.00	6
1211 MAX	0.05	0.00	4	0.11	0.00	4			
	0.01	0.00	4	0.11	13.23	4	0.03 C	13.23	4
MIN	-0.05	13.23	4	-0.05	6.61	4			
	0.01	13.23	5	-0.04	0.00	4	0.01 C	0.00	6
2211 MAX	0.05	0.00	4	0.10	0.00	4			
	-0.01	0.00	5	0.04	0.00	4	0.10 C	13.23	6
MIN	-0.05	13.23	4	-0.06	6.61	4			
	-0.01	13.23	4	-0.06	13.23	4	0.06 C	0.00	5
2311 MAX	0.05	0.00	4	0.14	0.00	4			
	0.01	0.00	4	0.06	13.23	4	0.06 C	13.23	4
MIN	-0.04	13.23	4	-0.05	7.72	4			
	0.00	13.23	6	-0.03	0.00	4	0.04 C	0.00	5
3311 MAX	0.05	0.00	4	0.13	0.00	4			
	-0.01	0.00	6	0.03	0.00	4	0.02 C	13.23	4
MIN	-0.05	13.23	4	-0.06	6.61	4			
	-0.01	13.23	4	-0.09	13.23	4	0.00 T	0.00	6
3411 MAX	0.05	0.00	4	0.13	0.00	4			
	0.01	0.00	4	0.09	13.23	4	0.02 C	13.23	4
MIN	-0.05	13.23	4	-0.06	6.61	4			
	0.01	13.23	6	-0.03	0.00	4	0.00 T	0.00	6
4111 MAX	0.05	0.00	4	0.10	0.00	4			
	0.01	0.00	4	0.06	13.23	4	0.10 C	13.23	6
MIN	-0.05	13.23	4	-0.06	6.61	4			
	0.01	13.23	5	-0.04	0.00	4	0.06 C	0.00	5
4411 MAX	0.05	0.00	4	0.14	0.00	4			
	0.00	0.00	6	0.03	0.00	4	0.06 C	13.23	4
MIN	-0.04	13.23	4	-0.05	7.72	4			
	-0.01	13.23	4	-0.06	13.23	4	0.04 C	0.00	5
CON ED L-17							-- PAGE NO.	98	

***** END OF FORCE ENVELOPE FROM INTERNAL STORAGE *****

827. *

828. LOAD LIST 4 TO 6

MEMBER FORCE ENVELOPE

ALL UNITS ARE KIP FEET

MAX AND MIN FORCE VALUES AMONGST ALL SECTION LOCATIONS

MEMB	FY/	DIST	LD	MZ/	DIST	LD	
	FZ	DIST	LD	MY	DIST	LD	FX DIST LD

830. 14400

11100 MAX	0.04	0.00	4	0.00	0.00	4	
	0.00	0.00	4	0.00	0.00	4	2.21 T 15.69 5
MIN	-0.04	15.69	4	0.00	15.69	6	
	0.00	15.69	6	0.00	15.69	6	4.95 T 0.00 6

11200 MAX	0.04	0.00	4	0.00	0.00	4	
	0.00	0.00	4	0.00	0.00	4	2.22 T 15.69 5
MIN	-0.04	15.69	4	0.00	15.69	6	
	0.00	15.69	6	0.00	15.69	6	4.96 T 0.00 6

12200 MAX	0.04	0.00	4	0.00	0.00	4	
	0.00	0.00	4	0.00	0.00	4	0.77 T 15.69 5
MIN	-0.04	15.69	4	0.00	15.69	6	
	0.00	15.69	6	0.00	15.69	6	1.21 T 0.00 6

12300 MAX	0.04	0.00	4	0.00	0.00	4	
	0.00	0.00	4	0.00	0.00	4	4.68 T 15.69 5
MIN	-0.04	15.69	4	0.00	15.69	6	
	0.00	15.69	6	0.00	15.69	6	8.96 T 0.00 6

13300 MAX	0.04	0.00	4	0.00	0.00	4	
	0.00	0.00	4	0.00	0.00	4	0.43 T 15.69 6
MIN	-0.04	15.69	4	0.00	15.69	6	
	0.00	15.69	6	0.00	15.69	6	0.63 T 0.00 4

13400 MAX	0.04	0.00	4	0.00	0.00	4	
	0.00	0.00	4	0.00	0.00	4	0.45 T 15.69 6
MIN	-0.04	15.69	4	0.00	15.69	6	
	0.00	15.69	6	0.00	15.69	6	0.64 T 0.00 4

14100 MAX	0.04	0.00	4	0.00	0.00	4	
	0.00	0.00	4	0.00	0.00	4	0.77 T 15.69 5
MIN	-0.04	15.69	4	0.00	15.69	6	
	0.00	15.69	6	0.00	15.69	6	1.20 T 0.00 6

14400 MAX	0.04	0.00	4	0.00	0.00	4	
	0.00	0.00	4	0.00	0.00	4	4.69 T 15.69 5
MIN	-0.04	15.69	4	0.00	15.69	6	

L-17.txt

0.00 15.69 6 0.00 15.69 6 8.97 T 0.00 6
 CON ED L-17 -- PAGE NO. 100

***** END OF FORCE ENVELOPE FROM INTERNAL STORAGE *****

831. *
 832. LOAD LIST 4 TO 6
 833. PRINT MAXFORCE ENVELOPE LIST 1100 1101 1200 1201 2200 2201 2300 2301 -
 CON ED L-17 -- PAGE NO. 101

MEMBER FORCE ENVELOPE

 ALL UNITS ARE KIP FEET

MAX AND MIN FORCE VALUES AMONGST ALL SECTION LOCATIONS

MEMB	FY/	DIST	LD	MZ/	DIST	LD	FZ	DIST	LD	FX	DIST	LD
834.	3300	3301	3400	3401	4100	4101	4400	4401				

1100	MAX	0.03	0.00	4	0.00	0.00	4					
		0.00	0.00	4	0.00	0.00	4	0.52	T	0.00	4	
	MIN	-0.03	13.02	4	0.00	13.02	6					
		0.00	13.02	6	0.00	13.02	6	1.47	T	13.02	6	

1101	MAX	0.03	0.00	4	0.00	0.00	4					
		0.00	0.00	4	0.00	0.00	4	0.43	T	0.00	5	
	MIN	-0.03	14.20	4	0.00	14.20	6					
		0.00	14.20	6	0.00	14.20	6	0.95	T	14.20	6	

1200	MAX	0.03	0.00	4	0.00	0.00	4					
		0.00	0.00	4	0.00	0.00	4	0.52	T	0.00	4	
	MIN	-0.03	13.02	4	0.00	13.02	6					
		0.00	13.02	6	0.00	13.02	6	1.47	T	13.02	6	

1201	MAX	0.03	0.00	4	0.00	0.00	4					
		0.00	0.00	4	0.00	0.00	4	0.43	T	0.00	5	
	MIN	-0.03	14.20	4	0.00	14.20	6					
		0.00	14.20	6	0.00	14.20	6	0.95	T	14.20	6	

2200	MAX	0.03	0.00	4	0.00	0.00	4					
		0.00	0.00	4	0.00	0.00	4	4.79	T	0.00	5	
	MIN	-0.03	13.02	4	0.00	13.02	6					
		0.00	13.02	6	0.00	13.02	6	9.15	T	13.02	6	

2201	MAX	0.00	0.00	4	0.00	0.00	4					
		0.00	0.00	4	0.00	0.00	4	0.00		0.00	4	
	MIN	0.00	14.20	6	0.00	14.20	6					

0.00 14.20 6 0.00 14.20 6 0.00 14.20 6

2300 MAX 0.03 0.00 4 0.00 0.00 4
 0.00 0.00 4 0.00 0.00 4 1.50 T 0.00 5
 MIN -0.03 13.02 4 0.00 13.02 6
 0.00 13.02 6 0.00 13.02 6 3.13 T 13.02 6

2301 MAX 0.03 0.00 4 0.00 0.00 4
 0.00 0.00 4 0.00 0.00 4 3.79 T 0.00 5
 MIN -0.03 14.20 4 0.00 14.20 6
 0.00 14.20 6 0.00 14.20 6 7.11 T 14.20 6

CON ED L-17 -- PAGE NO. 102

3300 MAX 0.00 0.00 4 0.00 0.00 4
 0.00 0.00 4 0.00 0.00 4 0.00 0.00 4
 MIN 0.00 13.02 6 0.00 13.02 6
 0.00 13.02 6 0.00 13.02 6 0.00 13.02 6

3301 MAX 0.03 0.00 4 0.00 0.00 4
 0.00 0.00 4 0.00 0.00 4 0.16 T 0.00 5
 MIN -0.03 14.20 4 0.00 14.20 6
 0.00 14.20 6 0.00 14.20 6 0.26 T 14.20 4

3400 MAX 0.00 0.00 4 0.00 0.00 4
 0.00 0.00 4 0.00 0.00 4 0.00 0.00 4
 MIN 0.00 13.02 6 0.00 13.02 6
 0.00 13.02 6 0.00 13.02 6 0.00 13.02 6

3401 MAX 0.03 0.00 4 0.00 0.00 4
 0.00 0.00 4 0.00 0.00 4 0.16 T 0.00 5
 MIN -0.03 14.20 4 0.00 14.20 6
 0.00 14.20 6 0.00 14.20 6 0.26 T 14.20 4

4100 MAX 0.03 0.00 4 0.00 0.00 4
 0.00 0.00 4 0.00 0.00 4 4.79 T 0.00 5
 MIN -0.03 13.02 4 0.00 13.02 6
 0.00 13.02 6 0.00 13.02 6 9.15 T 13.02 6

4101 MAX 0.00 0.00 4 0.00 0.00 4
 0.00 0.00 4 0.00 0.00 4 0.00 0.00 4
 MIN 0.00 14.20 6 0.00 14.20 6
 0.00 14.20 6 0.00 14.20 6 0.00 14.20 6

4400 MAX 0.03 0.00 4 0.00 0.00 4
 0.00 0.00 4 0.00 0.00 4 1.50 T 0.00 5
 MIN -0.03 13.02 4 0.00 13.02 6
 0.00 13.02 6 0.00 13.02 6 3.13 T 13.02 6

4401 MAX 0.03 0.00 4 0.00 0.00 4
 0.00 0.00 4 0.00 0.00 4 3.79 T 0.00 5
 MIN -0.03 14.20 4 0.00 14.20 6
 0.00 14.20 6 0.00 14.20 6 7.11 T 14.20 6

***** END OF FORCE ENVELOPE FROM INTERNAL STORAGE *****

835. *

836. LOAD LIST 4 TO 6

837. PRINT MAXFORCE ENVELOPE LIST 1102 1103 1202 1203 2202 2203 2302 2303 -

CON ED L-17

-- PAGE NO. 103

MEMBER FORCE ENVELOPE

ALL UNITS ARE KIP FEET

MAX AND MIN FORCE VALUES AMONGST ALL SECTION LOCATIONS

MEMB	FY/	DIST	LD	MZ/	DIST	LD			
	FZ	DIST	LD	MY	DIST	LD	FX	DIST	LD
838. 3302 3303 3402 3403 4102 4103 4402 4403									
1102 MAX	0.04	0.00	4	0.00	0.00	4			
	0.00	0.00	4	0.00	0.00	4	1.00 T	0.00	4
MIN	-0.04	22.97	4	0.00	22.97	6			
	0.00	22.97	6	0.00	22.97	6	2.45 T	22.97	6
1103 MAX	0.03	0.00	4	0.00	0.00	4			
	0.00	0.00	4	0.00	0.00	4	1.02 T	0.00	4
MIN	-0.03	20.15	4	0.00	20.15	6			
	0.00	20.15	6	0.00	20.15	6	2.73 T	20.15	6
1202 MAX	0.04	0.00	4	0.00	0.00	4			
	0.00	0.00	4	0.00	0.00	4	1.00 T	0.00	4
MIN	-0.04	22.97	4	0.00	22.97	6			
	0.00	22.97	6	0.00	22.97	6	2.45 T	22.97	6
1203 MAX	0.03	0.00	4	0.00	0.00	4			
	0.00	0.00	4	0.00	0.00	4	1.02 T	0.00	4
MIN	-0.03	20.15	4	0.00	20.15	6			
	0.00	20.15	6	0.00	20.15	6	2.73 T	20.15	6
2202 MAX	0.04	0.00	4	0.00	0.00	4			
	0.00	0.00	4	0.00	0.00	4	3.91 T	0.00	5
MIN	-0.04	22.97	4	0.00	22.97	6			
	0.00	22.97	6	0.00	22.97	6	6.87 T	22.97	6
2203 MAX	0.03	0.00	4	0.00	0.00	4			
	0.00	0.00	4	0.00	0.00	4	4.76 T	0.00	5
MIN	-0.03	20.15	4	0.00	20.15	6			
	0.00	20.15	6	0.00	20.15	6	7.86 T	20.15	6
2302 MAX	0.00	0.00	4	0.00	0.00	4			
	0.00	0.00	4	0.00	0.00	4	0.00	0.00	4
MIN	0.00	22.97	6	0.00	22.97	6			

L-17.txt

0.00 22.97 6 0.00 22.97 6 0.00 22.97 6

2303 MAX 0.00 0.00 4 0.00 0.00 4
0.00 0.00 4 0.00 0.00 4 0.00 0.00 4
MIN 0.00 20.15 6 0.00 20.15 6
0.00 20.15 6 0.00 20.15 6 0.00 20.15 6
|| CON ED L-17 -- PAGE NO. 104

3302 MAX 0.00 0.00 4 0.00 0.00 4
0.00 0.00 4 0.00 0.00 4 0.00 0.00 4
MIN 0.00 22.97 6 0.00 22.97 6
0.00 22.97 6 0.00 22.97 6 0.00 22.97 6

3303 MAX 0.00 0.00 4 0.00 0.00 4
0.00 0.00 4 0.00 0.00 4 0.00 0.00 4
MIN 0.00 20.15 6 0.00 20.15 6
0.00 20.15 6 0.00 20.15 6 0.00 20.15 6

3402 MAX 0.00 0.00 4 0.00 0.00 4
0.00 0.00 4 0.00 0.00 4 0.00 0.00 4
MIN 0.00 22.97 6 0.00 22.97 6
0.00 22.97 6 0.00 22.97 6 0.00 22.97 6

3403 MAX 0.00 0.00 4 0.00 0.00 4
0.00 0.00 4 0.00 0.00 4 0.00 0.00 4
MIN 0.00 20.15 6 0.00 20.15 6
0.00 20.15 6 0.00 20.15 6 0.00 20.15 6

4102 MAX 0.04 0.00 4 0.00 0.00 4
0.00 0.00 4 0.00 0.00 4 3.91 T 0.00 5
MIN -0.04 22.97 4 0.00 22.97 6
0.00 22.97 6 0.00 22.97 6 6.87 T 22.97 6

4103 MAX 0.03 0.00 4 0.00 0.00 4
0.00 0.00 4 0.00 0.00 4 4.76 T 0.00 5
MIN -0.03 20.15 4 0.00 20.15 6
0.00 20.15 6 0.00 20.15 6 7.87 T 20.15 6

4402 MAX 0.00 0.00 4 0.00 0.00 4
0.00 0.00 4 0.00 0.00 4 0.00 0.00 4
MIN 0.00 22.97 6 0.00 22.97 6
0.00 22.97 6 0.00 22.97 6 0.00 22.97 6

4403 MAX 0.00 0.00 4 0.00 0.00 4
0.00 0.00 4 0.00 0.00 4 0.00 0.00 4
MIN 0.00 20.15 6 0.00 20.15 6
0.00 20.15 6 0.00 20.15 6 0.00 20.15 6

***** END OF FORCE ENVELOPE FROM INTERNAL STORAGE *****

839. *

840. *DIAGONALS FACE 100-200 & 400-300

841. *

842. LOAD LIST 4 TO 6

843. PRINT MAXFORCE ENVELOPE LIST 1104 1105 1204 1205 3304 3305 3404 3405

CON ED L-17

-- PAGE NO. 105

MEMBER FORCE ENVELOPE

ALL UNITS ARE KIP FEET

MAX AND MIN FORCE VALUES AMONGST ALL SECTION LOCATIONS

MEMB	FY/	DIST	LD	MZ/	DIST	LD			
	FZ	DIST	LD	MY	DIST	LD	FX	DIST	LD
1104 MAX	0.03	0.00	4	0.06	0.00	4			
	0.00	0.00	4	0.03	14.45	4	0.22 C	0.00	6
MIN	-0.02	14.45	4	-0.03	7.23	4			
	0.00	14.45	5	-0.02	0.00	4	0.11 C	14.45	4
1105 MAX	0.02	0.00	4	0.04	12.74	4			
	0.00	0.00	6	0.06	12.74	6	0.45 T	0.00	5
MIN	-0.02	12.74	4	-0.03	6.37	4			
	0.00	12.74	5	0.01	0.00	6	1.21 T	12.74	6
1204 MAX	0.03	0.00	4	0.06	0.00	4			
	0.00	0.00	5	0.02	0.00	4	0.32 C	0.00	6
MIN	-0.02	14.45	4	-0.03	7.23	4			
	0.00	14.45	4	-0.02	14.45	4	0.17 C	14.45	4
1205 MAX	0.02	0.00	4	0.04	12.74	4			
	0.00	0.00	5	-0.01	0.00	6	0.36 T	0.00	5
MIN	-0.02	12.74	4	-0.03	6.37	4			
	0.00	12.74	6	-0.06	12.74	6	1.06 T	12.74	6
3304 MAX	0.03	0.00	4	0.07	0.00	4			
	0.00	0.00	4	0.02	14.45	4	0.02 T	0.00	4
MIN	-0.02	14.45	4	-0.03	7.23	4			
	0.00	14.45	5	-0.01	0.00	4	0.11 T	14.45	6
3305 MAX	0.02	0.00	4	0.05	0.00	4			
	0.00	0.00	4	0.01	0.00	4	1.42 C	0.00	6
MIN	-0.02	12.74	4	-0.02	6.37	4			
	0.00	12.74	6	-0.01	12.74	6	1.20 C	12.74	4
3404 MAX	0.03	0.00	4	0.07	0.00	4			
	0.00	0.00	5	0.01	0.00	4	0.08 C	0.00	5
MIN	-0.02	14.45	4	-0.03	7.23	4			
	0.00	14.45	4	-0.02	14.45	4	0.01 C	14.45	6
3405 MAX	0.02	0.00	4	0.05	0.00	4			
	0.00	0.00	6	0.01	12.74	6	1.59 C	0.00	6

L-17.txt

MIN -0.02 12.74 4 -0.02 6.37 4
0.00 12.74 4 -0.01 0.00 4 1.34 C 12.74 4
[] CON ED L-17 -- PAGE NO. 106

***** END OF FORCE ENVELOPE FROM INTERNAL STORAGE *****

844. *

845. LOAD LIST 4 TO 6

846. PRINT MAXFORCE ENVELOPE LIST 1106 1107 1206 1207 3306 3307 3406 3407

[] CON ED L-17 -- PAGE NO. 107

MEMBER FORCE ENVELOPE

ALL UNITS ARE KIP FEET

MAX AND MIN FORCE VALUES AMONGST ALL SECTION LOCATIONS

MEMB	FY/	DIST	LD	MZ/	DIST	LD	
	FZ	DIST	LD	MY	DIST	LD	FX DIST LD
1106 MAX	0.01	0.00	4	0.02	0.00	4	
	0.00	0.00	4	0.01	0.00	6	0.09 T 0.00 4
MIN	-0.01	9.24	4	-0.01	5.39	4	
	0.00	9.24	6	0.00	9.24	6	0.15 T 9.24 6
1107 MAX	0.01	0.00	4	0.01	0.00	4	
	0.00	0.00	6	0.00	0.00	4	0.37 C 0.00 5
MIN	0.00	8.14	4	0.00	4.75	4	
	0.00	8.14	4	-0.01	8.14	5	0.32 C 8.14 4
1206 MAX	0.01	0.00	4	0.02	0.00	4	
	0.00	0.00	6	0.00	9.24	6	0.19 T 0.00 4
MIN	-0.01	9.24	4	-0.01	5.39	4	
	0.00	9.24	4	0.00	0.00	6	0.23 T 9.24 6
1207 MAX	0.01	0.00	4	0.01	0.00	4	
	0.00	0.00	4	0.01	8.14	5	0.72 C 0.00 5
MIN	0.00	8.14	4	0.00	4.75	4	
	0.00	8.14	6	0.00	0.00	4	0.62 C 8.14 4
3306 MAX	0.01	0.00	4	0.01	9.24	4	
	0.00	0.00	6	0.00	9.24	6	0.12 C 0.00 6
MIN	-0.01	9.24	4	-0.01	4.62	4	
	0.00	9.24	4	0.00	0.00	6	0.09 C 9.24 4
3307 MAX	0.01	0.00	4	0.01	0.00	4	
	0.00	0.00	6	0.01	0.00	4	0.00 T 0.00 5
MIN	-0.01	8.14	4	0.00	4.07	4	

L-17.txt

0.00 8.14 4 0.00 8.14 5 0.19 T 8.14 6
3406 MAX 0.01 0.00 4 0.01 9.24 6
0.00 0.00 4 0.00 0.00 6 0.20 C 0.00 6
MIN -0.01 9.24 4 -0.01 4.62 4
0.00 9.24 6 0.00 9.24 4 0.08 C 9.24 5
3407 MAX 0.01 0.00 4 0.01 0.00 4
0.00 0.00 4 0.00 8.14 5 0.09 C 0.00 5
MIN -0.01 8.14 4 0.00 4.07 4
0.00 8.14 6 -0.01 0.00 4 0.26 T 8.14 6
□ CON ED L-17 -- PAGE NO. 108

***** END OF FORCE ENVELOPE FROM INTERNAL STORAGE *****

847. *
848. LOAD LIST 4 TO 6
849. PRINT MAXFORCE ENVELOPE LIST 1108 1208 3308 3408
□ CON ED L-17 -- PAGE NO. 109

MEMBER FORCE ENVELOPE

ALL UNITS ARE KIP FEET

MAX AND MIN FORCE VALUES AMONGST ALL SECTION LOCATIONS

MEMB	FY/	DIST	LD	MZ/	DIST	LD	
	FZ	DIST	LD	MY	DIST	LD	FX DIST LD
1108 MAX	0.01	0.00	4	0.01	0.00	4	
	0.01	0.00	6	0.02	7.25	6	2.09 C 0.00 5
MIN	-0.01	7.25	4	-0.01	3.63	4	
	0.00	7.25	4	-0.02	0.00	6	1.30 C 7.25 6
1208 MAX	0.01	0.00	4	0.01	0.00	4	
	0.00	0.00	6	0.02	0.00	5	1.80 C 0.00 5
MIN	-0.01	7.25	4	-0.01	3.63	4	
	-0.01	7.25	5	-0.02	7.25	5	1.43 C 7.25 6
3308 MAX	0.01	0.00	4	0.01	7.25	4	
	0.00	0.00	5	0.01	0.00	6	0.43 C 0.00 5
MIN	-0.01	7.25	4	-0.01	3.63	4	
	0.00	7.25	6	0.00	7.25	6	0.38 T 7.25 6
3408 MAX	0.01	0.00	4	0.01	7.25	4	
	0.00	0.00	6	0.01	7.25	6	1.23 C 0.00 5
MIN	-0.01	7.25	4	-0.01	3.63	4	
	0.00	7.25	4	-0.02	0.00	6	0.17 C 7.25 6

***** END OF FORCE ENVELOPE FROM INTERNAL STORAGE *****

850. *

851. *DIAGONALS FACE 100-400&200 -300

852. *

853. LOAD LIST 4 TO 6

854. PRINT MAXFORCE ENVELOPE LIST 21 22 41 42 2104 2404 4104 4404

□ CON ED L-17 -- PAGE NO. 110

MEMBER FORCE ENVELOPE

ALL UNITS ARE KIP FEET

MAX AND MIN FORCE VALUES AMONGST ALL SECTION LOCATIONS

MEMB	FY/	DIST	LD	MZ/	DIST	LD			
	FZ	DIST	LD	MY	DIST	LD	FX	DIST	LD
21 MAX	0.05	0.00	4	0.16	0.00	4			
	-0.01	0.00	6	0.06	0.00	4	14.04 C	0.00	6
MIN	-0.04	16.38	4	-0.10	9.56	4			
	-0.01	16.38	4	-0.04	16.38	5	9.91 C	16.38	4
22 MAX	0.05	0.00	4	0.16	0.00	4			
	0.00	0.00	4	-0.02	16.38	5	7.81 T	0.00	4
MIN	-0.05	16.38	4	-0.05	8.19	4			
	0.00	16.38	6	-0.05	0.00	4	12.94 T	16.38	6
41 MAX	0.05	0.00	4	0.16	0.00	4			
	0.01	0.00	4	0.04	16.38	6	14.04 C	0.00	6
MIN	-0.04	16.38	4	-0.10	9.56	4			
	0.01	16.38	6	-0.06	0.00	4	9.96 C	16.38	4
42 MAX	0.05	0.00	4	0.15	0.00	4			
	0.00	0.00	6	0.05	0.00	4	7.70 T	0.00	4
MIN	-0.05	16.38	4	-0.05	8.19	4			
	0.00	16.38	4	0.02	16.38	5	12.89 T	16.38	6
2104 MAX	0.02	0.00	4	0.05	8.47	4			
	0.02	0.00	4	0.11	8.47	4	8.99 T	0.00	4
MIN	-0.03	8.47	4	-0.03	3.53	4			
	0.02	8.47	5	-0.05	0.00	4	15.12 T	8.47	6
2404 MAX	0.02	0.00	4	0.05	8.47	4			
	-0.01	0.00	5	0.06	0.00	4	16.74 C	0.00	6
MIN	-0.03	8.47	4	-0.01	4.24	4			
	-0.02	8.47	4	-0.11	8.47	4	12.00 C	8.47	4

L-17.txt

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4104 MAX  0.02  0.00  4   0.05  8.47  4
          -0.02  0.00  5   0.05  0.00  4   8.94 T  0.00  4
          MIN  -0.03  8.47  4   -0.03  3.53  4
          -0.02  8.47  4   -0.12  8.47  4   15.11 T  8.47  6

4404 MAX  0.02  0.00  4   0.05  8.47  4
          0.02  0.00  4   0.11  8.47  4   16.76 C  0.00  6
          MIN  -0.03  8.47  4   -0.01  4.24  4
          0.01  8.47  5   -0.05  0.00  4   12.04 C  8.47  4
[] CON ED L-17                                -- PAGE NO. 111
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***** END OF FORCE ENVELOPE FROM INTERNAL STORAGE *****

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855. *
856. LOAD LIST 4 TO 6
857. PRINT MAXFORCE ENVELOPE LIST 2106 2406 4106 4406
[] CON ED L-17                                -- PAGE NO. 112
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MEMBER FORCE ENVELOPE

ALL UNITS ARE KIP FEET

MAX AND MIN FORCE VALUES AMONGST ALL SECTION LOCATIONS

MEMB	FY/	DIST	LD	MZ/	DIST	LD			
	FZ	DIST	LD	MY	DIST	LD	FX	DIST	LD
2106 MAX	0.02	0.00	6	0.04	0.00	6			
	0.01	0.00	5	0.13	11.26	5	10.68 T	0.00	4
MIN	-0.01	11.26	4	-0.04	11.26	6			
	0.01	11.26	6	-0.03	0.00	5	15.02 T	11.26	6
2406 MAX	0.00	0.00	4	0.10	11.26	6			
	0.00	0.00	6	0.06	11.26	6	13.52 C	0.00	6
MIN	-0.02	11.26	6	-0.05	0.00	6			
	0.00	11.26	5	0.01	11.26	5	8.15 C	11.26	4
4106 MAX	0.02	0.00	6	0.05	0.00	6			
	-0.01	0.00	6	0.03	0.00	5	10.45 T	0.00	4
MIN	0.00	11.26	4	-0.05	11.26	6			
	-0.01	11.26	5	-0.12	11.26	5	14.66 T	11.26	6
4406 MAX	0.00	0.00	4	0.10	11.26	6			
	0.00	0.00	5	0.00	11.26	5	13.34 C	0.00	6
MIN	-0.02	11.26	6	-0.05	0.00	6			
	0.00	11.26	6	-0.06	11.26	6	7.84 C	11.26	4

***** END OF FORCE ENVELOPE FROM INTERNAL STORAGE *****

858. *

859. LOAD LIST 4 TO 6

860. PRINT MAXFORCE ENVELOPE LIST 23 24 43 44 61 63 81 83

CON ED L-17

-- PAGE NO. 113

MEMBER FORCE ENVELOPE

ALL UNITS ARE KIP FEET

MAX AND MIN FORCE VALUES AMONGST ALL SECTION LOCATIONS

MEMB	FY/	DIST	LD	MZ/	DIST	LD			
	FZ	DIST	LD	MY	DIST	LD	FX	DIST	LD
23 MAX	0.04	0.00	4	0.07	11.04	4			
	0.00	0.00	5	0.01	0.00	6	1.61 C	0.00	6
MIN	-0.04	11.04	4	-0.05	5.52	4			
	0.00	11.04	6	-0.01	11.04	6	0.64 C	11.04	5
24 MAX	0.04	0.00	4	0.10	0.00	4			
	0.00	0.00	4	0.02	0.00	5	2.46 T	0.00	6
MIN	-0.03	11.04	4	-0.04	6.44	4			
	0.00	11.04	5	0.00	11.04	6	4.06 T	11.04	5
43 MAX	0.04	0.00	4	0.07	11.04	4			
	0.00	0.00	5	0.02	11.04	5	1.24 C	0.00	5
MIN	-0.04	11.04	4	-0.05	5.52	4			
	0.00	11.04	6	-0.02	0.00	4	0.96 C	11.04	6
44 MAX	0.04	0.00	4	0.09	0.00	4			
	-0.01	0.00	6	0.09	0.00	5	0.90 T	0.00	6
MIN	-0.04	11.04	4	-0.04	6.44	4			
	-0.01	11.04	5	-0.06	11.04	5	1.81 T	11.04	5
61 MAX	0.01	0.00	6	0.02	0.00	6			
	-0.02	0.00	4	0.07	0.00	6	7.57 C	0.00	6
MIN	0.00	5.07	4	-0.02	5.07	6			
	-0.02	5.07	6	-0.03	5.07	6	4.70 C	5.07	4
63 MAX	-0.01	0.00	4	0.02	5.07	6			
	0.00	0.00	4	0.04	0.00	6	4.90 T	0.00	4
MIN	-0.01	5.07	6	-0.04	0.00	6			
	-0.01	5.07	6	-0.01	5.07	6	7.75 T	5.07	6
81 MAX	0.01	0.00	6	0.02	0.00	6			
	0.02	0.00	6	0.04	5.07	6	7.19 C	0.00	6
MIN	0.00	5.07	4	-0.02	5.07	6			
	0.02	5.07	5	-0.06	0.00	6	4.49 C	5.07	4

L-17.txt

83 MAX -0.01 0.00 4 0.02 5.07 6
0.00 0.00 6 0.01 0.00 4 4.83 T 0.00 4
MIN -0.01 5.07 6 -0.04 0.00 6
-0.01 5.07 4 -0.02 5.07 4 7.57 T 5.07 6
CON ED L-17 -- PAGE NO. 114

***** END OF FORCE ENVELOPE FROM INTERNAL STORAGE *****

861. * LEVEL 76 TO 81 DIAGONAL
862. LOAD LIST 4 TO 6
863. PRINT MAXFORCE ENVELOPE LIST 2208 2209 4108 4109
CON ED L-17 -- PAGE NO. 115

MEMBER FORCE ENVELOPE

ALL UNITS ARE KIP FEET

MAX AND MIN FORCE VALUES AMONGST ALL SECTION LOCATIONS

MEMB	FY/	DIST	LD	MZ/	DIST	LD	
	FZ	DIST	LD	MY	DIST	LD	FX DIST LD
2208 MAX	0.02	0.00	4	0.03	0.00	4	
	0.01	0.00	5	0.02	8.04	5	10.93 C 0.00 6
MIN	-0.01	8.04	4	-0.01	4.69	4	
	0.00	8.04	6	-0.02	0.00	5	9.64 C 8.04 4
2209 MAX	0.01	0.00	4	0.04	8.65	4	
	0.00	0.00	6	0.02	0.00	5	8.81 T 8.65 4
MIN	-0.02	8.65	4	-0.01	3.60	4	
	-0.01	8.65	5	-0.03	8.65	5	10.68 T 0.00 6
4108 MAX	0.02	0.00	4	0.03	0.00	4	
	0.00	0.00	5	0.03	0.00	6	11.47 C 0.00 6
MIN	-0.01	8.04	4	-0.01	4.69	4	
	-0.01	8.04	6	-0.02	8.04	6	10.09 C 8.04 4
4109 MAX	0.01	0.00	4	0.03	8.65	4	
	0.01	0.00	5	0.03	8.65	5	9.19 T 8.65 4
MIN	-0.02	8.65	4	-0.01	3.60	4	
	0.00	8.65	6	-0.02	0.00	5	10.99 T 0.00 6

***** END OF FORCE ENVELOPE FROM INTERNAL STORAGE *****

864. *****

MEMBER FORCE ENVELOPE

ALL UNITS ARE KIP FEET

MAX AND MIN FORCE VALUES AMONGST ALL SECTION LOCATIONS

MEMB	FY/	DIST	LD	MZ/	DIST	LD			
	FZ	DIST	LD	MY	DIST	LD	FX	DIST	LD
261 MAX	0.02	0.00	4	0.03	0.00	4			
	0.01	0.00	5	0.02	8.65	5	7.67 C	0.00	6
MIN	-0.01	8.65	4	-0.01	5.04	4			
	0.00	8.65	6	-0.04	0.00	5	3.53 C	8.65	4
264 MAX	0.01	0.00	4	0.03	8.04	4			
	0.00	0.00	6	0.01	0.00	5	2.12 T	8.04	4
MIN	-0.01	8.04	4	-0.01	3.35	4			
	0.00	8.04	5	-0.02	8.04	5	6.72 T	0.00	6
481 MAX	0.02	0.00	4	0.03	0.00	4			
	0.00	0.00	6	0.04	0.00	5	7.66 C	0.00	6
MIN	-0.01	8.65	4	-0.01	5.04	4			
	-0.01	8.65	5	-0.02	8.65	5	3.42 C	8.65	4
484 MAX	0.01	0.00	4	0.03	8.04	4			
	0.00	0.00	4	0.01	8.04	4	2.34 T	8.04	4
MIN	-0.01	8.04	4	-0.01	3.35	4			
	0.00	8.04	6	-0.01	0.00	4	7.02 T	0.00	6
2208 MAX	0.02	0.00	4	0.03	0.00	4			
	0.01	0.00	5	0.02	8.04	5	10.93 C	0.00	6
MIN	-0.01	8.04	4	-0.01	4.69	4			
	0.00	8.04	6	-0.02	0.00	5	9.64 C	8.04	4
2209 MAX	0.01	0.00	4	0.04	8.65	4			
	0.00	0.00	6	0.02	0.00	5	8.81 T	8.65	4
MIN	-0.02	8.65	4	-0.01	3.60	4			
	-0.01	8.65	5	-0.03	8.65	5	10.68 T	0.00	6
4108 MAX	0.02	0.00	4	0.03	0.00	4			
	0.00	0.00	5	0.03	0.00	6	11.47 C	0.00	6
MIN	-0.01	8.04	4	-0.01	4.69	4			
	-0.01	8.04	6	-0.02	8.04	6	10.09 C	8.04	4
4109 MAX	0.01	0.00	4	0.03	8.65	4			
	0.01	0.00	5	0.03	8.65	5	9.19 T	8.65	4
MIN	-0.02	8.65	4	-0.01	3.60	4			
	0.00	8.65	6	-0.02	0.00	5	10.99 T	0.00	6

***** END OF FORCE ENVELOPE FROM INTERNAL STORAGE *****

866. LOAD LIST 4 TO 6

867. PRINT MAXFORCE ENVELOPE LIST 262 263 265 266 482 483 485 486

MEMBER FORCE ENVELOPE

ALL UNITS ARE KIP FEET

MAX AND MIN FORCE VALUES AMONGST ALL SECTION LOCATIONS

MEMB	FY/	DIST	LD	MZ/	DIST	LD	FX	DIST	LD
	FZ	DIST	LD	MY	DIST	LD			
262 MAX	0.02	0.00	4	0.04	10.28	4			
	0.00	0.00	6	0.01	10.28	6	5.69 T	0.00	4
MIN	-0.02	10.28	4	-0.01	5.14	4			
	0.00	10.28	5	-0.02	0.00	6	7.46 T	10.28	6
263 MAX	0.02	0.00	4	0.05	11.03	4			
	0.00	0.00	4	0.03	0.00	5	5.28 T	0.00	4
MIN	-0.02	11.03	4	-0.03	4.60	4			
	0.00	11.03	5	-0.01	11.03	5	7.30 T	11.03	6
265 MAX	0.02	0.00	4	0.05	11.03	6			
	0.00	0.00	5	0.02	0.00	6	7.45 C	11.03	6
MIN	-0.02	11.03	4	-0.02	5.52	4			
	0.00	11.03	6	-0.01	11.03	6	5.09 C	0.00	4
266 MAX	0.02	0.00	4	0.03	0.00	4			
	0.00	0.00	5	0.00	0.00	4	6.94 C	10.28	6
MIN	-0.02	10.28	4	-0.02	5.14	4			
	0.00	10.28	4	-0.01	10.28	4	4.66 C	0.00	4
482 MAX	0.02	0.00	4	0.04	10.28	4			
	0.00	0.00	6	0.01	0.00	4	5.67 T	0.00	4
MIN	-0.02	10.28	4	-0.01	5.14	4			
	0.00	10.28	4	-0.01	10.28	4	7.39 T	10.28	6
483 MAX	0.02	0.00	4	0.05	11.03	4			
	0.00	0.00	6	0.00	11.03	6	5.29 T	0.00	4
MIN	-0.02	11.03	4	-0.03	4.60	4			
	0.00	11.03	4	-0.02	0.00	6	7.24 T	11.03	6
485 MAX	0.02	0.00	4	0.05	11.03	6			

L-17.txt

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      0.00 0.00 6   0.01 11.03 6   7.33 C 11.03 6
MIN   -0.02 11.03 4   -0.02 5.52 4
      0.00 11.03 5   0.00 0.00 4   5.02 C 0.00 4

486 MAX   0.02 0.00 4   0.03 0.00 4
      0.00 0.00 4   0.02 10.28 4   6.88 C 10.28 6
MIN   -0.02 10.28 4   -0.02 5.14 4
      0.00 10.28 5   -0.02 0.00 4   4.64 C 0.00 4
[] CON ED L-17                                -- PAGE NO. 119

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***** END OF FORCE ENVELOPE FROM INTERNAL STORAGE *****

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868. *HORIZ AT 100
869. LOAD LIST 4 TO 6
870. PRINT MAXFORCE ENVELOPE LIST 5100 5500 6200 6600 7300 7700 8400 8800
[] CON ED L-17                                -- PAGE NO. 120

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MEMBER FORCE ENVELOPE

ALL UNITS ARE KIP FEET

MAX AND MIN FORCE VALUES AMONGST ALL SECTION LOCATIONS

MEMB	FY/	DIST	LD	MZ/	DIST	LD			
	FZ	DIST	LD	MY	DIST	LD	FX	DIST	LD
5100 MAX	0.08	0.00	4	0.15	0.00	4			
	0.01	0.00	6	0.05	12.00	6	5.62 C	0.00	6
MIN	-0.07	12.00	4	-0.08	6.00	4			
	0.00	12.00	5	-0.04	0.00	6	2.52 C	12.00	5
5500 MAX	0.07	0.00	4	0.15	12.00	4			
	0.00	0.00	5	0.05	0.00	6	5.62 C	0.00	6
MIN	-0.08	12.00	4	-0.08	6.00	4			
	-0.01	12.00	6	-0.04	12.00	6	2.53 C	12.00	5
6200 MAX	0.08	0.00	4	0.18	0.00	4			
	0.01	0.00	6	0.03	12.00	6	9.54 C	0.00	6
MIN	-0.07	12.00	4	-0.07	6.00	4			
	0.00	12.00	5	-0.04	0.00	6	5.06 C	12.00	5
6600 MAX	0.07	0.00	4	0.18	12.00	4			
	0.00	0.00	5	0.03	0.00	6	9.52 C	0.00	6
MIN	-0.08	12.00	4	-0.08	6.00	4			
	-0.01	12.00	6	-0.04	12.00	6	5.05 C	12.00	5
7300 MAX	0.07	0.00	4	0.16	12.00	4			
	0.01	0.00	6	0.04	12.00	6	0.54 C	0.00	4

L-17.txt

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MIN   -0.08 12.00 4   -0.08 6.00 4
      0.00 12.00 5   -0.03 0.00 6   0.39 C 12.00 6

7700 MAX   0.08 0.00 4   0.16 0.00 4
      0.00 0.00 5   0.04 0.00 6   0.54 C 0.00 4
MIN   -0.07 12.00 4   -0.08 6.00 4
      -0.01 12.00 6   -0.03 12.00 6   0.40 C 12.00 6

8400 MAX   0.08 0.00 4   0.18 0.00 4
      0.01 0.00 6   0.03 12.00 6   9.53 C 0.00 6
MIN   -0.07 12.00 4   -0.08 6.00 4
      0.00 12.00 5   -0.04 0.00 6   5.06 C 12.00 5

8800 MAX   0.07 0.00 4   0.18 12.00 4
      0.00 0.00 5   0.03 0.00 6   9.53 C 0.00 6
MIN   -0.08 12.00 4   -0.07 6.00 4
      -0.01 12.00 6   -0.04 12.00 6   5.05 C 12.00 5
[] CON ED L-17                                -- PAGE NO. 121

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***** END OF FORCE ENVELOPE FROM INTERNAL STORAGE *****

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871. *VERTICALAT 811
872. LOAD LIST 4 TO 6
873. PRINT MAXFORCE ENVELOPE LIST 500 600 700 800
[] CON ED L-17                                -- PAGE NO. 122

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MEMBER FORCE ENVELOPE

ALL UNITS ARE KIP FEET

MAX AND MIN FORCE VALUES AMONGST ALL SECTION LOCATIONS

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MEMB   FY/  DIST LD   MZ/  DIST LD
      FZ  DIST LD   MY  DIST LD   FX  DIST LD

500 MAX   0.06 0.00 4   0.26 0.00 4
      0.00 0.00 6   0.00 10.11 6   0.33 C 10.11 4
MIN   0.04 10.11 6   -0.30 10.11 4
      0.00 10.11 4   0.00 0.00 6   0.19 C 0.00 6

600 MAX   0.03 0.00 4   0.12 0.00 4
      0.01 0.00 6   0.04 10.11 6   0.28 C 10.11 4
MIN   0.01 10.11 6   -0.13 10.11 4
      0.00 10.11 5   -0.02 0.00 6   0.15 C 0.00 6

700 MAX   0.06 0.00 4   0.26 0.00 4
      0.00 0.00 6   0.00 10.11 6   0.34 C 10.11 4
MIN   0.04 10.11 5   -0.30 10.11 4

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L-17.txt

0.00 10.11 4 0.00 0.00 6 0.21 C 0.00 5
800 MAX 0.03 0.00 4 0.12 0.00 4
0.00 0.00 5 0.02 0.00 6 0.28 C 10.11 4
MIN 0.01 10.11 6 -0.13 10.11 4
-0.01 10.11 6 -0.04 10.11 6 0.15 C 0.00 6

***** END OF FORCE ENVELOPE FROM INTERNAL STORAGE *****

874. *HORIZ PLAN AT 109 JOINT

875. LOAD LIST 4 TO 6

876. PRINT MAXFORCE ENVELOPE LIST 13 15 19 58

|| CON ED L-17 -- PAGE NO. 123

MEMBER FORCE ENVELOPE

ALL UNITS ARE KIP FEET

MAX AND MIN FORCE VALUES AMONGST ALL SECTION LOCATIONS

MEMB	FY/	DIST	LD	MZ/	DIST	LD	
	FZ	DIST	LD	MY	DIST	LD	FX DIST LD
13 MAX	0.02	0.00	4	0.05	9.36	4	
	0.00	0.00	5	0.01	9.36	4	0.45 C 0.00 6
MIN	-0.03	9.36	4	-0.02	3.90	4	
	0.00	9.36	6	-0.02	0.00	5	0.59 T 9.36 5
15 MAX	0.03	0.00	4	0.04	0.00	4	
	0.00	0.00	6	0.02	0.00	5	0.56 C 0.00 6
MIN	-0.03	10.28	4	-0.03	5.14	4	
	0.00	10.28	5	-0.03	10.28	5	0.33 C 10.28 4
19 MAX	0.02	0.00	4	0.07	10.28	4	
	0.01	0.00	5	0.04	10.28	5	0.49 T 0.00 4
MIN	-0.03	10.28	4	-0.02	4.28	4	
	0.00	10.28	6	-0.04	0.00	5	0.62 T 10.28 6
58 MAX	0.03	0.00	4	0.04	0.00	4	
	-0.01	0.00	6	0.04	0.00	5	1.41 T 0.00 6
MIN	-0.02	9.36	4	-0.02	4.68	4	
	-0.01	9.36	5	-0.03	9.36	5	2.01 T 9.36 5

***** END OF FORCE ENVELOPE FROM INTERNAL STORAGE *****

877. *HORIZ PLAN AT 108 JOINT

878. *LOAD LIST 4 TO 6

879. PRINT MAXFORCE ENVELOPE LIST 1 TO 8

CON ED L-17

-- PAGE NO. 124

MEMBER FORCE ENVELOPE

ALL UNITS ARE KIP FEET

MAX AND MIN FORCE VALUES AMONGST ALL SECTION LOCATIONS

MEMB	FY/	DIST	LD	MZ/	DIST	LD	FZ	DIST	LD	MY	DIST	LD	FX	DIST	LD
1 MAX	0.01	0.00	4	0.02	0.00	4									
	0.00	0.00	4	0.01	0.00	5	0.30	C	0.00	5					
MIN	-0.01	7.39	4	-0.01	3.70	4									
	0.00	7.39	5	-0.02	7.39	5	0.04	T	7.39	6					
2 MAX	0.01	0.00	4	0.02	7.39	4									
	0.00	0.00	5	0.01	7.39	6	0.73	C	0.00	5					
MIN	-0.01	7.39	4	-0.01	3.08	4									
	0.00	7.39	4	-0.02	0.00	5	0.04	C	7.39	6					
3 MAX	0.02	0.00	4	0.04	11.03	4									
	0.00	0.00	5	0.01	11.03	5	0.28	T	0.00	5					
MIN	-0.02	11.03	4	-0.02	5.52	4									
	0.00	11.03	6	-0.02	0.00	5	1.46	T	11.03	6					
4 MAX	0.02	0.00	4	0.04	11.03	4									
	0.00	0.00	6	0.02	0.00	5	0.18	C	0.00	5					
MIN	-0.02	11.03	4	-0.02	5.52	4									
	0.00	11.03	5	-0.01	11.03	5	0.83	T	11.03	6					
5 MAX	0.02	0.00	4	0.04	11.03	4									
	0.00	0.00	5	0.02	11.03	5	2.24	C	0.00	5					
MIN	-0.02	11.03	4	-0.02	5.52	4									
	0.00	11.03	6	-0.01	0.00	5	1.70	C	11.03	6					
6 MAX	0.02	0.00	4	0.04	11.03	4									
	0.00	0.00	6	0.01	0.00	5	2.71	C	0.00	5					
MIN	-0.02	11.03	4	-0.02	5.52	4									
	0.00	11.03	5	-0.02	11.03	5	2.29	C	11.03	4					
7 MAX	0.01	0.00	4	0.02	0.00	4									
	0.00	0.00	6	0.01	0.00	5	1.59	C	0.00	5					
MIN	-0.01	7.39	4	-0.01	3.70	4									
	0.00	7.39	5	0.00	7.39	5	1.12	C	7.39	6					
8 MAX	0.01	0.00	4	0.02	0.00	4									
	0.00	0.00	5	0.00	7.39	5	1.06	C	0.00	5					
MIN	-0.01	7.39	4	-0.01	3.70	4									
	0.00	7.39	6	-0.01	0.00	5	0.59	C	7.39	6					

***** END OF FORCE ENVELOPE FROM INTERNAL STORAGE *****

880. *****
881. *HORIZONTAL
882. *HORIZONTAL LEVEL 76*FACE 100 -400 & 200-300
883. LOAD LIST 4 TO 6
884. PRINT MAXFORCE ENVELOPE LIST 661 TO 663 881 TO 883 6208 8108

MEMBER FORCE ENVELOPE

ALL UNITS ARE KIP FEET

MAX AND MIN FORCE VALUES AMONGST ALL SECTION LOCATIONS

MEMB	FY/	DIST	LD	MZ/	DIST	LD	FZ	DIST	LD	MY	DIST	LD	FX	DIST	LD
661 MAX	0.05	0.00	6	0.12	0.00	6									
	0.05	0.00	5	0.06	5.44	5	9.31 C	0.00	5						
MIN	-0.01	5.44	4	-0.07	5.44	6									
	0.01	5.44	6	-0.19	0.00	5	5.82 C	5.44	6						
662 MAX	0.04	0.00	4	0.18	9.83	6									
	0.02	0.00	5	0.14	9.83	5	7.56 C	0.00	5						
MIN	-0.05	9.83	4	-0.01	4.10	4									
	0.01	9.83	6	-0.08	0.00	5	6.01 C	9.83	6						
663 MAX	0.02	0.00	4	0.14	9.83	4									
	-0.02	0.00	6	0.17	0.00	5	0.17 C	0.00	5						
MIN	-0.07	9.83	4	-0.13	1.64	6									
	-0.03	9.83	5	-0.08	9.83	5	3.20 T	9.83	6						
881 MAX	0.06	0.00	6	0.13	0.00	6									
	-0.02	0.00	6	0.23	0.00	5	9.95 C	0.00	5						
MIN	-0.01	5.44	4	-0.07	5.44	6									
	-0.06	5.44	5	-0.08	5.44	5	6.60 C	5.44	6						
882 MAX	0.04	0.00	4	0.18	9.83	6									
	-0.01	0.00	6	0.07	0.00	5	8.17 C	0.00	5						
MIN	-0.05	9.83	4	-0.01	4.10	4									
	-0.02	9.83	5	-0.12	9.83	5	6.58 C	9.83	6						
883 MAX	0.02	0.00	4	0.14	9.83	4									
	0.03	0.00	5	0.08	9.83	5	0.04 T	0.00	5						
MIN	-0.07	9.83	4	-0.13	1.64	6									

L-17.txt

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0.02 9.83 6 -0.18 0.00 5 3.65 T 9.83 6
6208 MAX 0.07 0.00 6 0.18 0.00 5
        -0.05 0.00 6 0.08 0.00 5 3.48 C 0.00 5
        MIN 0.01 5.44 4 -0.08 5.44 6
          -0.07 5.44 5 -0.28 5.44 5 0.49 T 5.44 6
8108 MAX 0.07 0.00 6 0.18 0.00 5
          0.07 0.00 5 0.29 5.44 5 3.30 C 0.00 5
        MIN 0.01 5.44 4 -0.08 5.44 6
          0.05 5.44 6 -0.10 0.00 5 0.95 T 5.44 6
11 CON ED L-17 -- PAGE NO. 127

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***** END OF FORCE ENVELOPE FROM INTERNAL STORAGE *****

```

885. *HORIZONTAL LEVEL 81*FACE 100 -400 & 200-300
886. LOAD LIST 4 TO 6
887. PRINT MAXFORCE ENVELOPE LIST 664 TO 666 884 TO 886 6209 8109
11 CON ED L-17 -- PAGE NO. 128

```

MEMBER FORCE ENVELOPE

ALL UNITS ARE KIP FEET

MAX AND MIN FORCE VALUES AMONGST ALL SECTION LOCATIONS

MEMB	FY/	DIST	LD	MZ/	DIST	LD			
	FZ	DIST	LD	MY	DIST	LD	FX	DIST	LD
664 MAX	0.04	0.00	4	0.10	0.00	6			
	-0.01	0.00	4	0.08	0.00	5	8.20 T	0.00	6
MIN	-0.03	7.91	4	-0.02	5.93	6			
	-0.01	7.91	6	-0.05	7.91	6	11.58 T	7.91	5
665 MAX	0.03	0.00	4	0.15	8.98	6			
	0.02	0.00	5	0.11	8.98	5	7.92 T	0.00	6
MIN	-0.05	8.98	4	-0.01	2.99	4			
	0.01	8.98	6	-0.09	0.00	5	10.78 T	8.98	5
666 MAX	0.04	0.00	4	0.07	8.98	4			
	0.00	0.00	6	0.04	0.00	5	4.21 C	0.00	6
MIN	-0.05	8.98	4	-0.05	2.99	6			
	-0.01	8.98	5	-0.08	8.98	5	1.32 T	8.98	5
884 MAX	0.05	0.00	4	0.11	0.00	6			
	0.00	0.00	6	0.08	0.00	5	9.26 T	0.00	6
MIN	-0.03	7.91	4	-0.03	6.59	6			
	-0.01	7.91	5	-0.03	7.91	5	12.95 T	7.91	5

L-17.txt

885 MAX 0.03 0.00 4 0.15 8.98 6
0.03 0.00 5 0.15 8.98 5 8.42 T 0.00 6
MIN -0.05 8.98 4 -0.01 2.99 4
0.01 8.98 6 -0.12 0.00 5 11.42 T 8.98 5

886 MAX 0.03 0.00 4 0.08 8.98 4
0.00 0.00 6 0.07 0.00 5 4.58 C 0.00 6
MIN -0.05 8.98 4 -0.06 2.99 6
-0.02 8.98 5 -0.11 8.98 5 1.23 T 8.98 5

6209 MAX 0.05 0.00 4 0.10 0.00 6
0.00 0.00 4 0.02 0.00 5 1.92 C 0.00 6
MIN -0.02 7.91 4 -0.06 6.59 6
-0.01 7.91 6 -0.03 7.91 6 4.19 T 7.91 5

8109 MAX 0.05 0.00 4 0.11 0.00 6
0.01 0.00 5 0.05 7.91 5 2.54 C 0.00 6
MIN -0.02 7.91 4 -0.06 7.25 6
0.00 7.91 6 -0.05 0.00 5 4.21 T 7.91 5

CON ED L-17 -- PAGE NO. 129

***** END OF FORCE ENVELOPE FROM INTERNAL STORAGE *****

888. *

889. *FACE 100- 200 & FACE 300-400 HORIZ

890. LOAD LIST 4 TO 6

891. PRINT MAXFORCE ENVELOPE LIST 5101 5501 7301 7701

CON ED L-17 -- PAGE NO. 130

MEMBER FORCE ENVELOPE

ALL UNITS ARE KIP FEET

MAX AND MIN FORCE VALUES AMONGST ALL SECTION LOCATIONS

MEMB	FY/	DIST	LD	MZ/	DIST	LD	
	FZ	DIST	LD	MY	DIST	LD	FX DIST LD

5101 MAX	0.03	0.00	4	0.06	0.00	4	
	-0.05	0.00	5	0.19	0.00	4	0.08 T 11.25 5
MIN	-0.03	11.25	4	-0.03	6.56	4	
	-0.06	11.25	4	-0.46	11.25	4	0.16 T 0.00 6

5501 MAX	0.03	0.00	4	0.06	11.25	4	
	0.06	0.00	4	0.19	11.25	4	0.08 T 0.00 5
MIN	-0.03	11.25	4	-0.03	4.69	4	
	0.05	11.25	5	-0.46	0.00	4	0.16 T 11.25 6

L-17.txt

```
7301 MAX   0.03  0.00  4   0.07  0.00  4
        -0.04  0.00  6   0.18  0.00  4   0.08 C 11.25  6
        MIN  -0.02 11.25  4  -0.03  6.56  4
        -0.06 11.25  4  -0.45 11.25  4   0.05 C  0.00  5

7701 MAX   0.02  0.00  4   0.07 11.25  4
        0.06  0.00  4   0.18 11.25  4   0.08 C  0.00  6
        MIN  -0.03 11.25  4  -0.03  4.69  4
        0.04 11.25  6  -0.45  0.00  4   0.06 C 11.25  5
```

***** END OF FORCE ENVELOPE FROM INTERNAL STORAGE *****

892. LOAD LIST 4 TO 6

893. PRINT MAXFORCE ENVELOPE LIST 5102 7302

CON ED L-17 -- PAGE NO. 131

MEMBER FORCE ENVELOPE

ALL UNITS ARE KIP FEET

MAX AND MIN FORCE VALUES AMONGST ALL SECTION LOCATIONS

```
MEMB   FY/  DIST LD   MZ/  DIST LD
        FZ  DIST LD   MY  DIST LD   FX  DIST LD

5102 MAX   0.08  0.00  4   0.26  0.00  4
        0.00  0.00  4   0.00  0.00  5   2.64 C  0.00  6
        MIN  -0.08 19.99  4  -0.14 10.00  4
        0.00 19.99  6  -0.01 19.99  6   1.24 C 19.99  5

7302 MAX   0.08  0.00  4   0.26 19.99  4
        0.00  0.00  4   0.00  0.00  6   0.24 C  0.00  4
        MIN  -0.08 19.99  4  -0.14 10.00  4
        0.00 19.99  6   0.00 19.99  5   0.17 C 19.99  6
```

***** END OF FORCE ENVELOPE FROM INTERNAL STORAGE *****

894. LOAD LIST 4 TO 6

895. PRINT MAXFORCE ENVELOPE LIST 5103 7303

CON ED L-17 -- PAGE NO. 132

MEMBER FORCE ENVELOPE

ALL UNITS ARE KIP FEET

MAX AND MIN FORCE VALUES AMONGST ALL SECTION LOCATIONS

MEMB	FY/	DIST	LD	MZ/	DIST	LD			
	FZ	DIST	LD	MY	DIST	LD	FX	DIST	LD
5103 MAX	0.07	0.00	4	0.16	16.25	4			
	0.00	0.00	6	0.00	16.25	4	2.96 C	0.00	6
MIN	-0.07	16.25	4	-0.11	8.12	4			
	0.00	16.25	4	0.00	0.00	6	1.10 C	16.25	4
7303 MAX	0.06	0.00	4	0.16	16.25	4			
	0.00	0.00	4	0.00	0.00	6	0.40 T	0.00	5
MIN	-0.07	16.25	4	-0.11	8.12	4			
	0.00	16.25	6	0.00	16.25	5	0.78 T	16.25	6

***** END OF FORCE ENVELOPE FROM INTERNAL STORAGE *****

896. LOAD LIST 4 TO 6

897. PRINT MAXFORCE ENVELOPE LIST 5104 7304

CON ED L-17

-- PAGE NO. 133

MEMBER FORCE ENVELOPE

ALL UNITS ARE KIP FEET

MAX AND MIN FORCE VALUES AMONGST ALL SECTION LOCATIONS

MEMB	FY/	DIST	LD	MZ/	DIST	LD			
	FZ	DIST	LD	MY	DIST	LD	FX	DIST	LD
5104 MAX	0.05	0.00	4	0.10	0.00	4			
	0.00	0.00	6	0.00	12.50	5	2.84 C	0.00	6
MIN	-0.05	12.50	4	-0.05	6.25	4			
	0.00	12.50	4	-0.01	0.00	6	1.24 C	12.50	4
7304 MAX	0.05	0.00	4	0.11	12.50	4			
	0.00	0.00	6	0.01	12.50	6	0.78 T	0.00	4
MIN	-0.05	12.50	4	-0.05	6.25	4			
	0.00	12.50	4	0.00	0.00	4	1.01 T	12.50	6

***** END OF FORCE ENVELOPE FROM INTERNAL STORAGE *****

898. LOAD LIST 4 TO 6

899. PRINT MAXFORCE ENVELOPE LIST 5106 7306

MEMBER FORCE ENVELOPE

ALL UNITS ARE KIP FEET

MAX AND MIN FORCE VALUES AMONGST ALL SECTION LOCATIONS

MEMB	FY/	DIST	LD	MZ/	DIST	LD	FX	DIST	LD
	FZ	DIST	LD	MY	DIST	LD		DIST	LD
5106 MAX	0.01	0.00	4	0.02	0.00	4			
	0.00	0.00	4	0.01	0.00	4	0.37 T	0.00	6
MIN	-0.01	7.95	4	-0.01	3.97	4			
	0.00	7.95	6	0.00	7.95	6	0.60 T	7.95	5
7306 MAX	0.01	0.00	4	0.02	7.95	4			
	0.00	0.00	6	0.02	0.00	6	0.06 C	0.00	6
MIN	-0.01	7.95	4	-0.01	3.97	4			
	0.00	7.95	5	0.01	7.95	5	0.34 T	7.95	5

***** END OF FORCE ENVELOPE FROM INTERNAL STORAGE *****

900. LOAD LIST 4 TO 6

901. PRINT MAXFORCE ENVELOPE LIST 5108 7308

MEMBER FORCE ENVELOPE

ALL UNITS ARE KIP FEET

MAX AND MIN FORCE VALUES AMONGST ALL SECTION LOCATIONS

MEMB	FY/	DIST	LD	MZ/	DIST	LD	FX	DIST	LD
	FZ	DIST	LD	MY	DIST	LD		DIST	LD
5108 MAX	0.01	0.00	4	0.00	5.00	4			
	0.00	0.00	6	0.00	0.00	5	0.56 C	0.00	6
MIN	-0.01	5.00	4	-0.01	2.50	4			
	0.00	5.00	5	0.00	0.00	6	0.45 T	5.00	5
7308 MAX	0.01	0.00	4	0.01	5.00	4			
	0.00	0.00	5	0.01	5.00	5	1.18 T	0.00	6
MIN	-0.01	5.00	4	-0.01	2.50	4			
	0.00	5.00	4	0.00	0.00	6	1.80 T	5.00	5

***** END OF FORCE ENVELOPE FROM INTERNAL STORAGE *****

902. LOAD LIST 4 TO 6

903. PRINT MAXFORCE ENVELOPE LIST 5109 7309

□ CON ED L-17 -- PAGE NO. 136

MEMBER FORCE ENVELOPE

ALL UNITS ARE KIP FEET

MAX AND MIN FORCE VALUES AMONGST ALL SECTION LOCATIONS

MEMB	FY/	DIST	LD	MZ/	DIST	LD	FZ	DIST	LD	MY	DIST	LD	FX	DIST	LD
5109 MAX	0.01	0.00	4	0.00	0.00	4									
	0.00	0.00	6	0.00	5.00	6	0.60	C	0.00	4					
MIN	0.00	5.00	4	0.00	2.50	4									
	0.00	5.00	5	0.00	0.00	6	0.06	C	5.00	6					
7309 MAX	0.01	0.00	4	0.00	0.00	4									
	0.00	0.00	5	0.01	5.00	5	0.88	C	0.00	4					
MIN	0.00	5.00	4	0.00	2.50	4									
	0.00	5.00	6	-0.01	0.00	5	0.72	C	5.00	5					

***** END OF FORCE ENVELOPE FROM INTERNAL STORAGE *****

904. *HORIZONTAL

905. *FACE 100-400 & 200-300 HPRIZ

906. LOAD LIST 4 TO 6

907. PRINT MAXFORCE ENVELOPE LIST 6201 6601 8401 8801

□ CON ED L-17 -- PAGE NO. 137

MEMBER FORCE ENVELOPE

ALL UNITS ARE KIP FEET

MAX AND MIN FORCE VALUES AMONGST ALL SECTION LOCATIONS

MEMB	FY/	DIST	LD	MZ/	DIST	LD	FZ	DIST	LD	MY	DIST	LD	FX	DIST	LD
------	-----	------	----	-----	------	----	----	------	----	----	------	----	----	------	----

L-17.txt

6201 MAX 0.02 0.00 4 0.07 11.25 6
-0.03 0.00 5 0.19 0.00 4 0.49 C 11.25 6
MIN -0.03 11.25 4 -0.04 3.75 6
-0.04 11.25 4 -0.29 11.25 4 0.31 C 0.00 5

6601 MAX 0.03 0.00 4 0.07 0.00 6
0.04 0.00 4 0.18 11.25 4 0.03 T 0.00 4
MIN -0.03 11.25 4 -0.02 5.62 4
0.03 11.25 5 -0.29 0.00 4 0.08 T 11.25 6

8401 MAX 0.03 0.00 4 0.07 11.25 6
-0.03 0.00 5 0.18 0.00 4 0.03 T 11.25 4
MIN -0.03 11.25 4 -0.02 5.62 4
-0.04 11.25 4 -0.29 11.25 4 0.09 T 0.00 6

8801 MAX 0.03 0.00 4 0.07 0.00 6
0.04 0.00 4 0.19 11.25 4 0.49 C 0.00 6
MIN -0.02 11.25 4 -0.04 7.50 6
0.03 11.25 5 -0.29 0.00 4 0.31 C 11.25 5

***** END OF FORCE ENVELOPE FROM INTERNAL STORAGE *****

908. LOAD LIST 4 TO 6

909. PRINT MAXFORCE ENVELOPE LIST 6202 8402

CON ED L-17 -- PAGE NO. 138

MEMBER FORCE ENVELOPE

ALL UNITS ARE KIP FEET

MAX AND MIN FORCE VALUES AMONGST ALL SECTION LOCATIONS

MEMB	FY/	DIST	LD	MZ/	DIST	LD	
	FZ	DIST	LD	MY	DIST	LD	FX DIST LD

6202 MAX	0.07	0.00	4	0.32	19.99	4	
	0.00	0.00	5	0.01	0.00	6	5.24 C 0.00 6
MIN	-0.09	19.99	4	-0.15	10.00	4	
	0.00	19.99	6	-0.01	19.99	6	2.93 C 19.99 5

8402 MAX	0.09	0.00	4	0.32	0.00	4	
	0.00	0.00	6	0.01	19.99	6	5.24 C 0.00 6
MIN	-0.07	19.99	4	-0.15	10.00	4	
	0.00	19.99	5	-0.01	0.00	6	2.93 C 19.99 5

***** END OF FORCE ENVELOPE FROM INTERNAL STORAGE *****

910. LOAD LIST 4 TO 6

911. PRINT MAXFORCE ENVELOPE LIST 6203 8403

CON ED L-17

-- PAGE NO. 139

MEMBER FORCE ENVELOPE

ALL UNITS ARE KIP FEET

MAX AND MIN FORCE VALUES AMONGST ALL SECTION LOCATIONS

MEMB	FY/	DIST	LD	MZ/	DIST	LD	FZ	DIST	LD	MY	DIST	LD	FX	DIST	LD
------	-----	------	----	-----	------	----	----	------	----	----	------	----	----	------	----

6203 MAX	0.06	0.00	4	0.17	16.25	4	0.00	0.00	6	0.00	0.00	5	4.62 C	0.00	6
MIN	-0.07	16.25	4	-0.11	8.12	4	0.00	16.25	5	0.00	0.00	6	2.79 C	16.25	5

8403 MAX	0.07	0.00	4	0.17	0.00	4	0.00	0.00	5	0.00	0.00	6	4.63 C	0.00	6
MIN	-0.06	16.25	4	-0.11	8.12	4	0.00	16.25	6	0.00	16.25	6	2.79 C	16.25	5

***** END OF FORCE ENVELOPE FROM INTERNAL STORAGE *****

912. LOAD LIST 4 TO 6

913. PRINT MAXFORCE ENVELOPE LIST 6204 8404

CON ED L-17

-- PAGE NO. 140

MEMBER FORCE ENVELOPE

ALL UNITS ARE KIP FEET

MAX AND MIN FORCE VALUES AMONGST ALL SECTION LOCATIONS

MEMB	FY/	DIST	LD	MZ/	DIST	LD	FZ	DIST	LD	MY	DIST	LD	FX	DIST	LD
------	-----	------	----	-----	------	----	----	------	----	----	------	----	----	------	----

6204 MAX	0.05	0.00	4	0.13	12.50	4	0.00	0.00	4	0.02	0.00	6	5.09 C	0.00	5
MIN	-0.05	12.50	4	-0.05	5.21	4	0.00	12.50	6	-0.02	12.50	6	4.62 C	12.50	6

8404 MAX	0.05	0.00	4	0.13	0.00	4	0.00	0.00	6	0.01	12.50	6	5.04 C	0.00	5
----------	------	------	---	------	------	---	------	------	---	------	-------	---	--------	------	---

L-17.txt

MIN -0.05 12.50 4 -0.05 7.29 4
0.00 12.50 4 -0.01 0.00 6 4.61 C 12.50 6

***** END OF FORCE ENVELOPE FROM INTERNAL STORAGE *****

914. *

915. *

916. *ARM MEMBERS

917. LOAD LIST 4 TO 6

918. PRINT MAXFORCE ENVELOPE LIST 1001 1002 1005 1006

|| CON ED L-17 -- PAGE NO. 141

MEMBER FORCE ENVELOPE

ALL UNITS ARE KIP FEET

MAX AND MIN FORCE VALUES AMONGST ALL SECTION LOCATIONS

MEMB	FY/	DIST	LD	MZ/	DIST	LD	
	FZ	DIST	LD	MY	DIST	LD	FX DIST LD

1001 MAX	0.03	0.00	4	0.25	11.01	4	
	-0.01	0.00	6	0.04	0.00	5	11.19 C 0.00 5
MIN	-0.08	11.01	4	-0.06	2.75	4	
	-0.01	11.01	5	-0.07	11.01	5	7.09 C 11.01 6

1002 MAX	0.03	0.00	4	0.25	11.01	4	
	0.01	0.00	5	0.06	11.01	5	11.36 C 0.00 5
MIN	-0.07	11.01	4	-0.06	2.75	4	
	0.01	11.01	6	-0.04	0.00	5	7.13 C 11.01 6

1005 MAX	0.03	0.00	4	0.21	11.01	4	
	0.01	0.00	5	0.06	11.01	5	7.28 C 0.00 5
MIN	-0.07	11.01	4	-0.07	3.67	4	
	0.00	11.01	6	-0.04	0.00	5	0.55 C 11.01 6

1006 MAX	0.03	0.00	4	0.21	11.01	4	
	0.00	0.00	6	0.04	0.00	5	7.48 C 0.00 5
MIN	-0.07	11.01	4	-0.07	3.67	6	
	-0.01	11.01	5	-0.05	11.01	5	0.62 C 11.01 6

***** END OF FORCE ENVELOPE FROM INTERNAL STORAGE *****

919. *

920. LOAD LIST 4 TO 6

921. PRINT MAXFORCE ENVELOPE LIST 1003 1004 1007 1008

|| CON ED L-17 -- PAGE NO. 142

MEMBER FORCE ENVELOPE

ALL UNITS ARE KIP FEET

MAX AND MIN FORCE VALUES AMONGST ALL SECTION LOCATIONS

MEMB	FY/	DIST	LD	MZ/	DIST	LD			
	FZ	DIST	LD	MY	DIST	LD	FX	DIST	LD

1003 MAX	0.01	0.00	4	0.04	10.69	4			
	0.00	0.00	5	0.00	10.69	6	4.37 T	0.00	6
MIN	-0.02	10.69	4	-0.01	4.45	4			
	0.00	10.69	4	0.00	0.00	5	10.58 T	10.69	5

1004 MAX	0.01	0.00	4	0.04	10.69	4			
	0.00	0.00	6	0.00	0.00	5	4.40 T	0.00	6
MIN	-0.02	10.69	4	-0.01	4.45	4			
	0.00	10.69	5	0.00	10.69	5	10.75 T	10.69	5

1007 MAX	0.01	0.00	4	0.04	10.69	4			
	0.00	0.00	6	0.01	10.69	6	4.36 T	0.00	6
MIN	-0.02	10.69	4	-0.01	4.45	4			
	0.00	10.69	5	0.00	0.00	6	10.57 T	10.69	5

1008 MAX	0.01	0.00	4	0.04	10.69	4			
	0.00	0.00	5	0.00	10.69	5	4.44 T	0.00	6
MIN	-0.02	10.69	4	-0.01	4.45	4			
	0.00	10.69	6	0.00	0.00	5	10.77 T	10.69	5

***** END OF FORCE ENVELOPE FROM INTERNAL STORAGE *****

922. *HORIZ BRACE AT C-C \$ D-D

923. LOAD LIST 4 TO 6

924. PRINT MAXFORCE ENVELOPE LIST 52 53 56 57

CON ED L-17 -- PAGE NO. 143

MEMBER FORCE ENVELOPE

ALL UNITS ARE KIP FEET

MAX AND MIN FORCE VALUES AMONGST ALL SECTION LOCATIONS

MEMB	FY/	DIST	LD	MZ/	DIST	LD			
	FZ	DIST	LD	MY	DIST	LD	FX	DIST	LD

L-17.txt

```

52 MAX  0.00 0.00 4  0.00 0.00 4
        0.00 0.00 4  0.00 0.00 4  0.00 0.00 4
    MIN  0.00 17.68 6  0.00 17.68 6
        0.00 17.68 6  0.00 17.68 6  0.00 17.68 6

53 MAX  0.00 0.00 4  0.00 0.00 4
        0.00 0.00 4  0.00 0.00 4  0.00 0.00 4
    MIN  0.00 17.68 6  0.00 17.68 6
        0.00 17.68 6  0.00 17.68 6  0.00 17.68 6

56 MAX  0.00 0.00 4  0.00 0.00 4
        0.00 0.00 4  0.00 0.00 4  0.00 0.00 4
    MIN  0.00 28.27 6  0.00 28.27 6
        0.00 28.27 6  0.00 28.27 6  0.00 28.27 6

57 MAX  0.00 0.00 4  0.00 0.00 4
        0.00 0.00 4  0.00 0.00 4  0.00 0.00 4
    MIN  0.00 28.27 6  0.00 28.27 6
        0.00 28.27 6  0.00 28.27 6  0.00 28.27 6

```

***** END OF FORCE ENVELOPE FROM INTERNAL STORAGE *****

925. LOAD LIST 4 TO 6

926. PRINT MAXFORCE ENVELOPE LIST 1 TO 8

CON ED L-17

-- PAGE NO. 144

MEMBER FORCE ENVELOPE

ALL UNITS ARE KIP FEET

MAX AND MIN FORCE VALUES AMONGST ALL SECTION LOCATIONS

```

MEMB  FY/ DIST LD  MZ/ DIST LD
      FZ  DIST LD  MY  DIST LD  FX  DIST LD

1 MAX  0.01 0.00 4  0.02 0.00 4
      0.00 0.00 4  0.01 0.00 5  0.30 C 0.00 5
    MIN -0.01 7.39 4 -0.01 3.70 4
      0.00 7.39 5 -0.02 7.39 5  0.04 T 7.39 6

2 MAX  0.01 0.00 4  0.02 7.39 4
      0.00 0.00 5  0.01 7.39 6  0.73 C 0.00 5
    MIN -0.01 7.39 4 -0.01 3.08 4
      0.00 7.39 4 -0.02 0.00 5  0.04 C 7.39 6

3 MAX  0.02 0.00 4  0.04 11.03 4
      0.00 0.00 5  0.01 11.03 5  0.28 T 0.00 5
    MIN -0.02 11.03 4 -0.02 5.52 4

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L-17.txt

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0.00 11.03 6 -0.02 0.00 5 1.46 T 11.03 6

4 MAX 0.02 0.00 4 0.04 11.03 4
0.00 0.00 6 0.02 0.00 5 0.18 C 0.00 5
MIN -0.02 11.03 4 -0.02 5.52 4
0.00 11.03 5 -0.01 11.03 5 0.83 T 11.03 6

5 MAX 0.02 0.00 4 0.04 11.03 4
0.00 0.00 5 0.02 11.03 5 2.24 C 0.00 5
MIN -0.02 11.03 4 -0.02 5.52 4
0.00 11.03 6 -0.01 0.00 5 1.70 C 11.03 6

6 MAX 0.02 0.00 4 0.04 11.03 4
0.00 0.00 6 0.01 0.00 5 2.71 C 0.00 5
MIN -0.02 11.03 4 -0.02 5.52 4
0.00 11.03 5 -0.02 11.03 5 2.29 C 11.03 4

7 MAX 0.01 0.00 4 0.02 0.00 4
0.00 0.00 6 0.01 0.00 5 1.59 C 0.00 5
MIN -0.01 7.39 4 -0.01 3.70 4
0.00 7.39 5 0.00 7.39 5 1.12 C 7.39 6

8 MAX 0.01 0.00 4 0.02 0.00 4
0.00 0.00 5 0.00 7.39 5 1.06 C 0.00 5
MIN -0.01 7.39 4 -0.01 3.70 4
0.00 7.39 6 -0.01 0.00 5 0.59 C 7.39 6
!! CON ED L-17 -- PAGE NO. 145

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***** END OF FORCE ENVELOPE FROM INTERNAL STORAGE *****

927. PERFORM ANALYSIS

**ERROR- WITH MEMBER TENSION/COMPRESSION EACH LOAD CASE MUST BE FOLLOWED BY
PERFORM ANALYSIS THEN CHANGE.

***** END OF THE STAAD.Pro RUN *****

**** DATE= DEC 17,2008 TIME= 9:46:17 ****

* For questions on STAAD.Pro, please contact : *

* By Email - North America : support@ca.reiusa.com *

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* Tel. (USA) : 714-974-2500 ; Fax (USA) : 714-974-4771 *
