

DESIGN SPECIFICATION: EIA-222-F  
 BASIC WIND SPEED: 85.0 mph  
 RADIAL ICE: 0.5 in

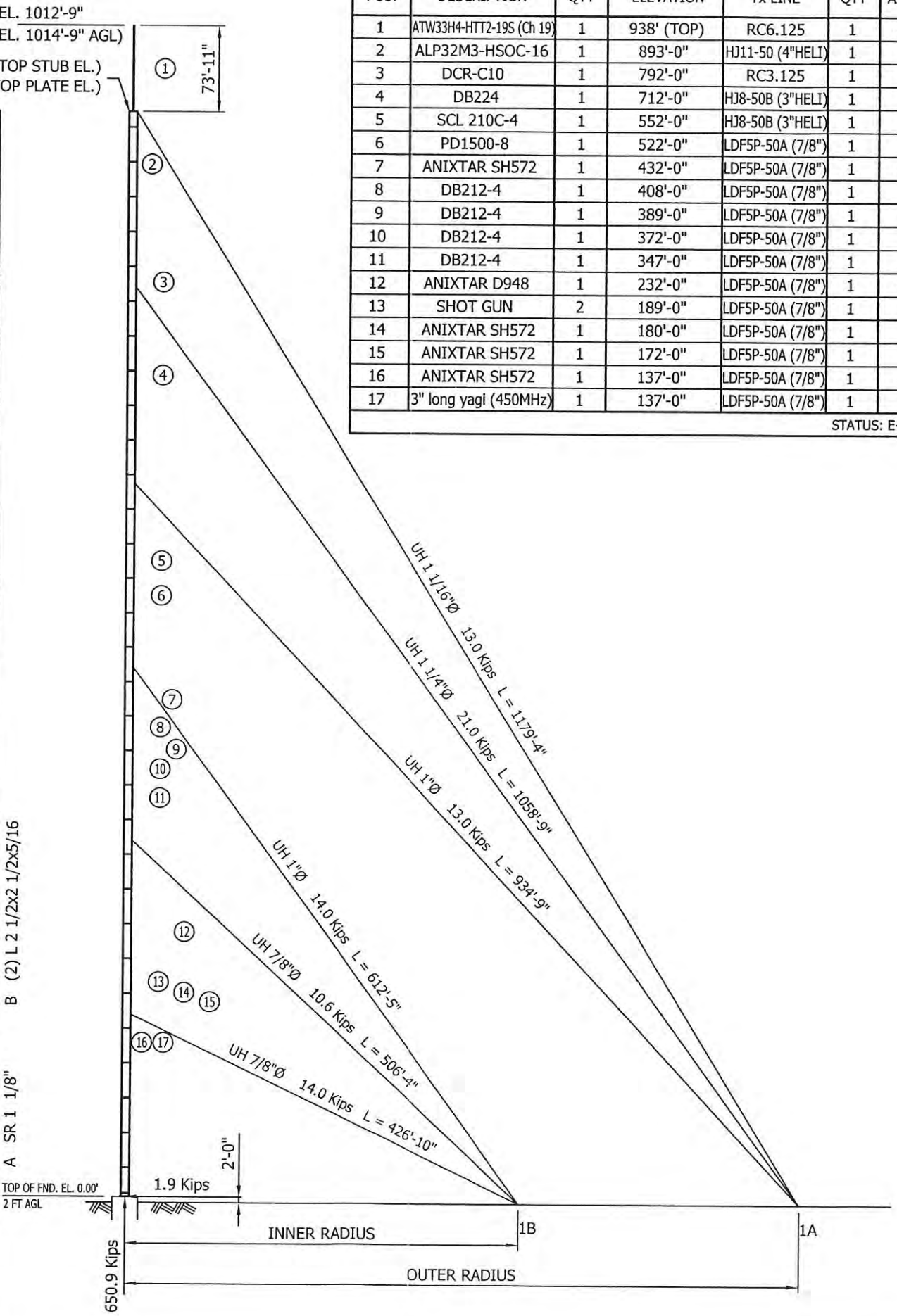
ANTENNA LOADING CHART								
POS.	DESCRIPTION	QTY	ELEVATION	Tx LINE	QTY	AZIMUTH	COMMENTS	STATUS
1	ATW33H4-HIT2-19S (Ch 19)	1	938' (TOP)	RC6.125	1	OMNI	NETC	I
2	ALP32M3-HSOC-16	1	893'-0"	HJ11-50 (4"HELI)	1	---	NETC	I
3	DCR-C10	1	792'-0"	RC3.125	1	---	NETC	R
4	DB224	1	712'-0"	HJ8-50B (3"HELI)	1	---	NETC	R
5	SCL 210C-4	1	552'-0"	HJ8-50B (3"HELI)	1	---	HIGHWAY PATROL	R
6	PD1500-8	1	522'-0"	LDF5P-50A (7/8")	1	---	NOAA WEATHER SERVICE	R
7	ANIXTAR SH572	1	432'-0"	LDF5P-50A (7/8")	1	192°	DEP. OF ROADS + IG	R
8	DB212-4	1	408'-0"	LDF5P-50A (7/8")	1	---		R
9	DB212-4	1	389'-0"	LDF5P-50A (7/8")	1	---		R
10	DB212-4	1	372'-0"	LDF5P-50A (7/8")	1	---		R
11	DB212-4	1	347'-0"	LDF5P-50A (7/8")	1	---		R
12	ANIXTAR D948	1	232'-0"	LDF5P-50A (7/8")	1	208°	DEP. OF ROADS	R
13	SHOT GUN	2	189'-0"	LDF5P-50A (7/8")	1	98°	DEP. OF ROADS	R
14	ANIXTAR SH572	1	180'-0"	LDF5P-50A (7/8")	1	90°	DEP. OF ROADS + IG	R
15	ANIXTAR SH572	1	172'-0"	LDF5P-50A (7/8")	1	5°	DEP. OF ROADS + IG	R
16	ANIXTAR SH572	1	137'-0"	LDF5P-50A (7/8")	1	265°	DEP. OF ROADS + IG	R
17	3" long yagi (450MHz)	1	137'-0"	LDF5P-50A (7/8")	1	---	DEP. OF ROADS	R

STATUS: E-EXISTING, F-FUTURE, I-INITIAL, R-RELOCATED

FILE NO. 0170123

REVISIONS			
REV.	DESCRIPTION	DWN	CHK APP
1	ADDED KIT # FOR STARBASE	SIP	AAS BK
DATE: Mar/17/2003			

SECTION NO.	LEGS	DIAGONALS	HORIZONTALS	MID. HORIZ.	KIT NUMBER	GUY ELEVATION	REST PLATFORM ELEVATION	PURPOSE FOR REST PLATFORM
1	SR 3 3/4	SR 7/8"-X	(2) L2 1/2x2 1/2x1/4	(2) L2x3/16	K07XH2A	EL. 1012'-9"	AT TRANSFER PLATFORM LEVEL	
2	SR 3 3/4	SR 7/8"-X	(2) L2 1/2x2 1/2x1/4	(2) L2x3/16	K07XH2	EL. 1014'-9" AGL		
3	SR 3 3/4	SR 7/8"-X	(2) L2 1/2x2 1/2x1/4	(2) L2x3/16	K07XH2	EL. 937'-3 1/2"	EL. 886'-6 9/16" (ANTENNA)	
4	SR 3 3/4	SR 7/8"-X	(2) L2 1/2x2 1/2x1/4	(2) L2x3/16	K07XH2	EL. 938'-10" (TOP STUB EL.)		
5	SR 3 3/4	SR 7/8"-X	(2) L2 1/2x2 1/2x1/4	(2) L2x3/16	K07XH2	EL. 938' (TOP PLATE EL.)		
6	SR 3 3/4	SR 7/8"-X	(2) L2 1/2x2 1/2x1/4	(2) L2x3/16	K07XH2	EL. 787'-1 11/16"	EL. 777'-2 3/8" (ANTENNA & LIGHTING)	
7	SR 3 3/4	SR 7/8"-X	(2) L2 1/2x2 1/2x1/4	(2) L2x3/16	K07XE8K	EL. 707'-7 5/16" (ANTENNA)		
8	SR 3 3/4	SR 7/8"-X	(2) L2 1/2x2 1/2x1/4	(2) L2x3/16	K07XE8J	EL. 618'-1 11/16"	EL. 628'-1" (LIGHTING)	
9	SR 3 3/4	SR 7/8"-X	(2) L2 1/2x2 1/2x1/4	(2) L2x3/16	K07XF8K	EL. 548'-6 11/16" (ANTENNA)		
10	SR 3 3/4	SR 7/8"-X	(2) L2 1/2x2 1/2x1/4	(2) L2x3/16	K07XF8M5I4	EL. 518'-8 13/16" (ANTENNA)		
11	SR 3 3/4	SR 7/8"-X	(2) L2 1/2x2 1/2x1/4	(2) L2x3/16	K07XF2	EL. 459'-1 1/16"	EL. 469'-3/8" (LIGHTING)	
12	SR 3 3/4	SR 7/8"-X	(2) L2 1/2x2 1/2x1/4	(2) L2x3/16	K07XF2	EL. 309'-11 11/16"	EL. 319'-10 15/16" (LIGHTING)	
13	SR 3 3/4	SR 7/8"-X	(2) L2 1/2x2 1/2x1/4	(2) L2x3/16	K07XF2	EL. 160'-10 5/16"	EL. 150'-11" (LIGHTING)	
14	SR 3 3/4	SR 7/8"-X	(2) L2 1/2x2 1/2x1/4	(2) L2x3/16	K07XH2			
15	SR 3 3/4	SR 7/8"-X	(2) L2 1/2x2 1/2x1/4	(2) L2x3/16	K07XH2			
16	SR 3 3/4	SR 7/8"-X	(2) L2 1/2x2 1/2x1/4	(2) L2x3/16	K07XH2			
17	SR 3 3/4	SR 7/8"-X	(2) L2 1/2x2 1/2x1/4	(2) L2x3/16	K07XH2			
18	SR 3 3/4	SR 7/8"-X	(2) L2 1/2x2 1/2x1/4	(2) L2x3/16	K07XH2			
19	SR 3 3/4	SR 7/8"-X	(2) L2 1/2x2 1/2x1/4	(2) L2x3/16	K07XH2			
20	SR 3 3/4	SR 7/8"-X	(2) L2 1/2x2 1/2x1/4	(2) L2x3/16	K07XH2			
21	SR 3 3/4	SR 7/8"-X	(2) L2 1/2x2 1/2x1/4	(2) L2x3/16	K07XH2			
22	SR 3 3/4	SR 7/8"-X	(2) L2 1/2x2 1/2x1/4	(2) L2x3/16	K07XH2			
23	SR 3 3/4	SR 7/8"-X	(2) L2 1/2x2 1/2x1/4	(2) L2x3/16	K07XH2			
24	SR 3 3/4	SR 7/8"-X	(2) L2 1/2x2 1/2x1/4	(2) L2x3/16	K07XH2			
25	SR 3 3/4	SR 7/8"-X	(2) L2 1/2x2 1/2x1/4	(2) L2x3/16	K07XH2			
26	SR 3 3/4	SR 7/8"-X	(2) L2 1/2x2 1/2x1/4	(2) L2x3/16	K07XH2			
27	SR 3 3/4	SR 7/8"-X	(2) L2 1/2x2 1/2x1/4	(2) L2x3/16	K07XH2			
28	SR 3 3/4	SR 7/8"-X	(2) L2 1/2x2 1/2x1/4	(2) L2x3/16	K07XH2			
29	SR 3 3/4	SR 7/8"-X	(2) L2 1/2x2 1/2x1/4	(2) L2x3/16	K07XH2			
30	SR 3 3/4	SR 7/8"-X	(2) L2 1/2x2 1/2x1/4	(2) L2x3/16	K07XH2			
31	SR 3 3/4	SR 7/8"-X	(2) L2 1/2x2 1/2x1/4	(2) L2x3/16	K07XH2			
32	SR 3 3/4	SR 7/8"-X	(2) L2 1/2x2 1/2x1/4	(2) L2x3/16	K07XH2			



DWG REFERENCE	

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N.E.T.V - KXNE-TV  
 KIT NUMBER PROFILE  
 1014.75FT (AGL) RT7 SERIES MAST  
 NORFOLK, NE

DWN: SIP    CHK'D: AAS    DATE: Feb/12/2003

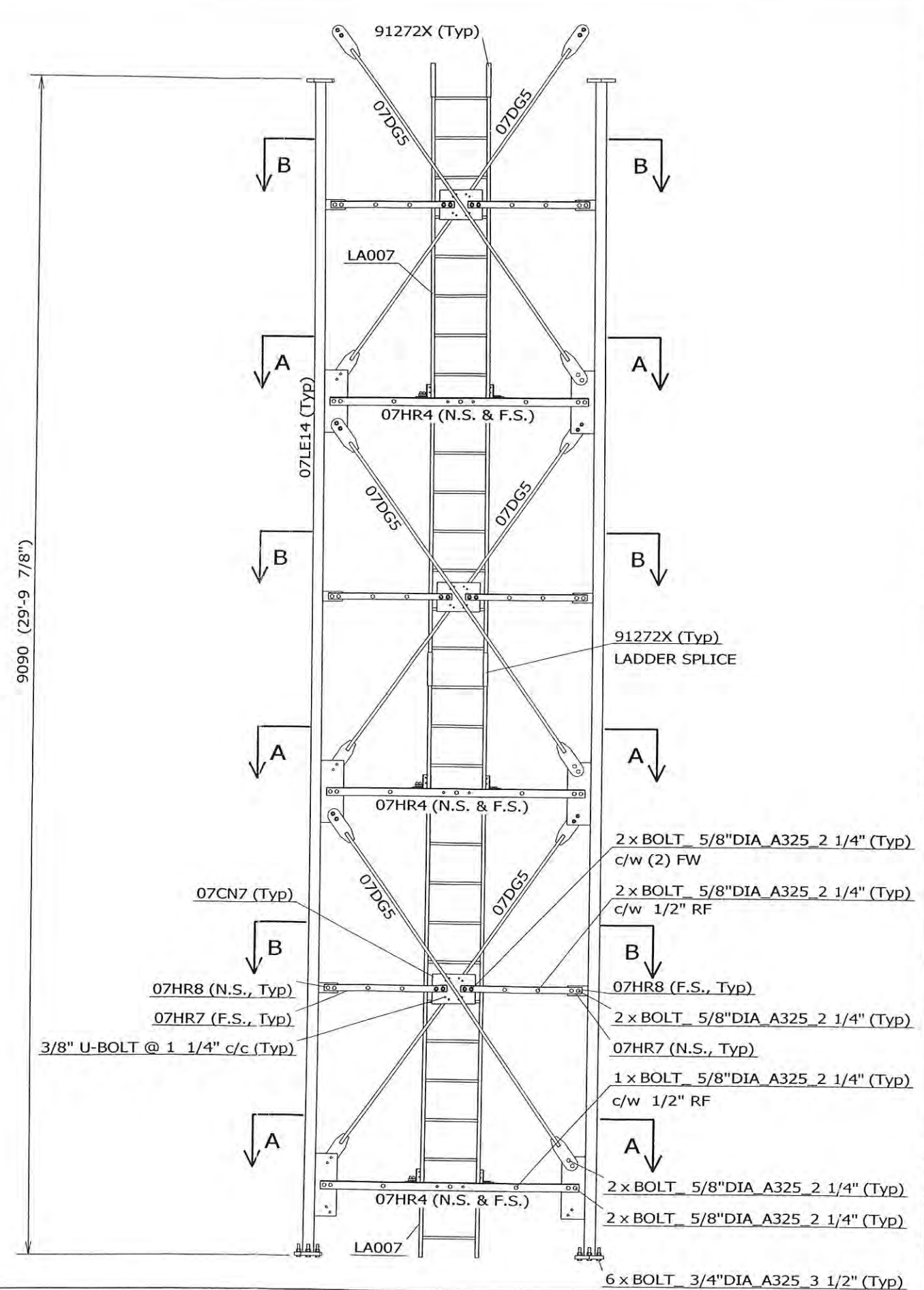
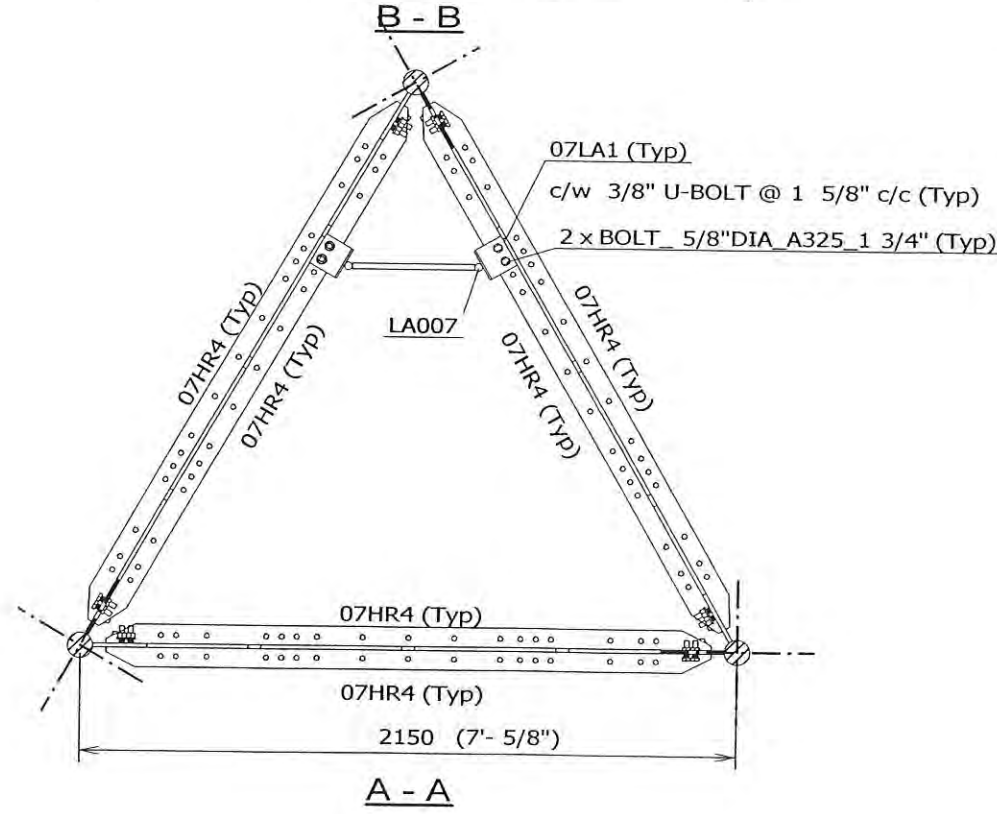
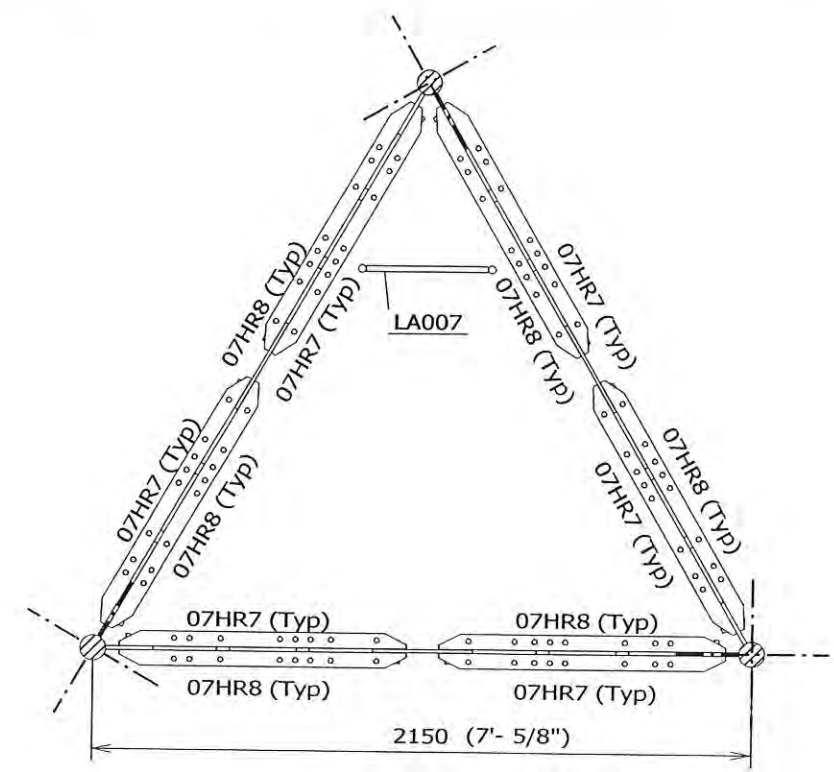
ENG'R: B.K    ENG'R APP'D:

DRAWING NO: 07-NKHS-D02-01    REV: 1

Mar/17/2003 1:22:57 PM

KIT NUMBER & REST PLATFORM LOCATION





- NOTES:
- 1) HORIZONTALS AND DIAGONALS (TYPICAL ALL THREE FACES).
  - 2) TOWER ORIENTATION AND LEG AZIMUTHS (REFER TO SITE SPECIFIC DESIGN PROFILE).
  - 3) LOCATION OF TX LINES' SUPPORTS (REFER TO SITE SPECIFIC SECTION DRAWINGS).
  - 4) BOLTS COMPLETE W/ HARDENED WASHERS & LOCK NUT PINS.

FILE NO.: STANDARD

REVISIONS				
REV.	DESCRIPTION	DWN	CHK	APP
0	FOR RELEASE	SIP	AAS	EV

DWG REFERENCE	
DWG	07XF2-E02
DWG	
DWG	
DWG	
DWG	
DWG	



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RT07 SERIES MAST  
 KIT# K07XF2  
 SR 3 1/4" LEG, SR 7/8"-X DIAG.

DWN: SIP	CHK'D: AAS	DATE: 12.03.2003
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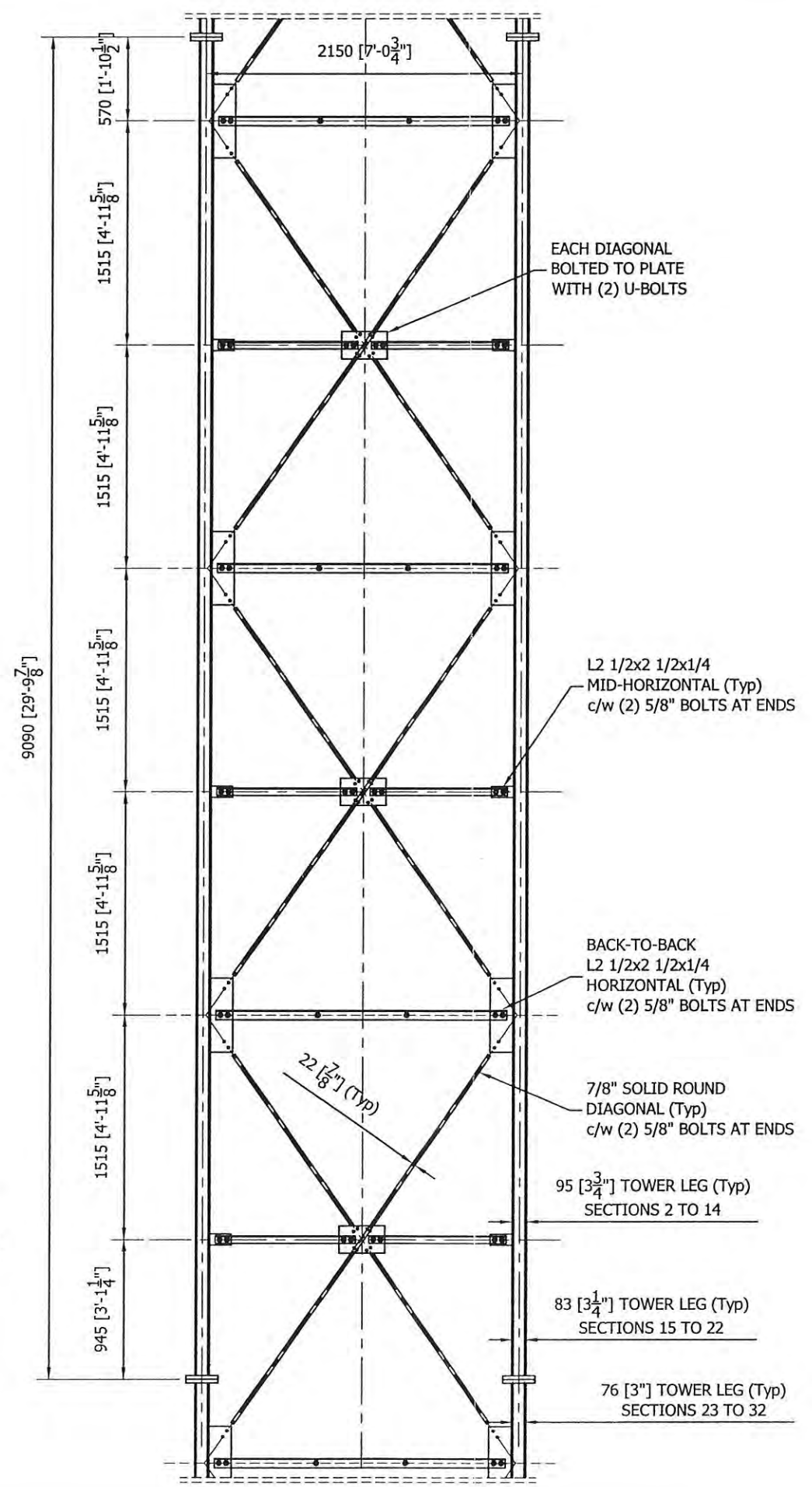
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DRAWING NO: 07XF2-E01	REV: 0
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Jan/06/2003 4:10:22 PM

Proposal

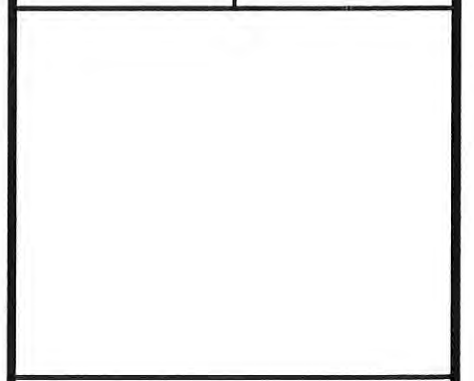
TYPICAL SECTION  
(ELEVATION VIEW)



FILE NO. 0170123

REVISIONS				
REV.	DESCRIPTION	DWN	CHK	APP

DWG REFERENCE



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N.E.T.V - KXNE-TV  
TOWER PROFILE  
TYPICAL SECTION (ELEVATION)  
NORFOLK, NE

DWN: SIP      CHK'D:      DATE: Jan/06/2003

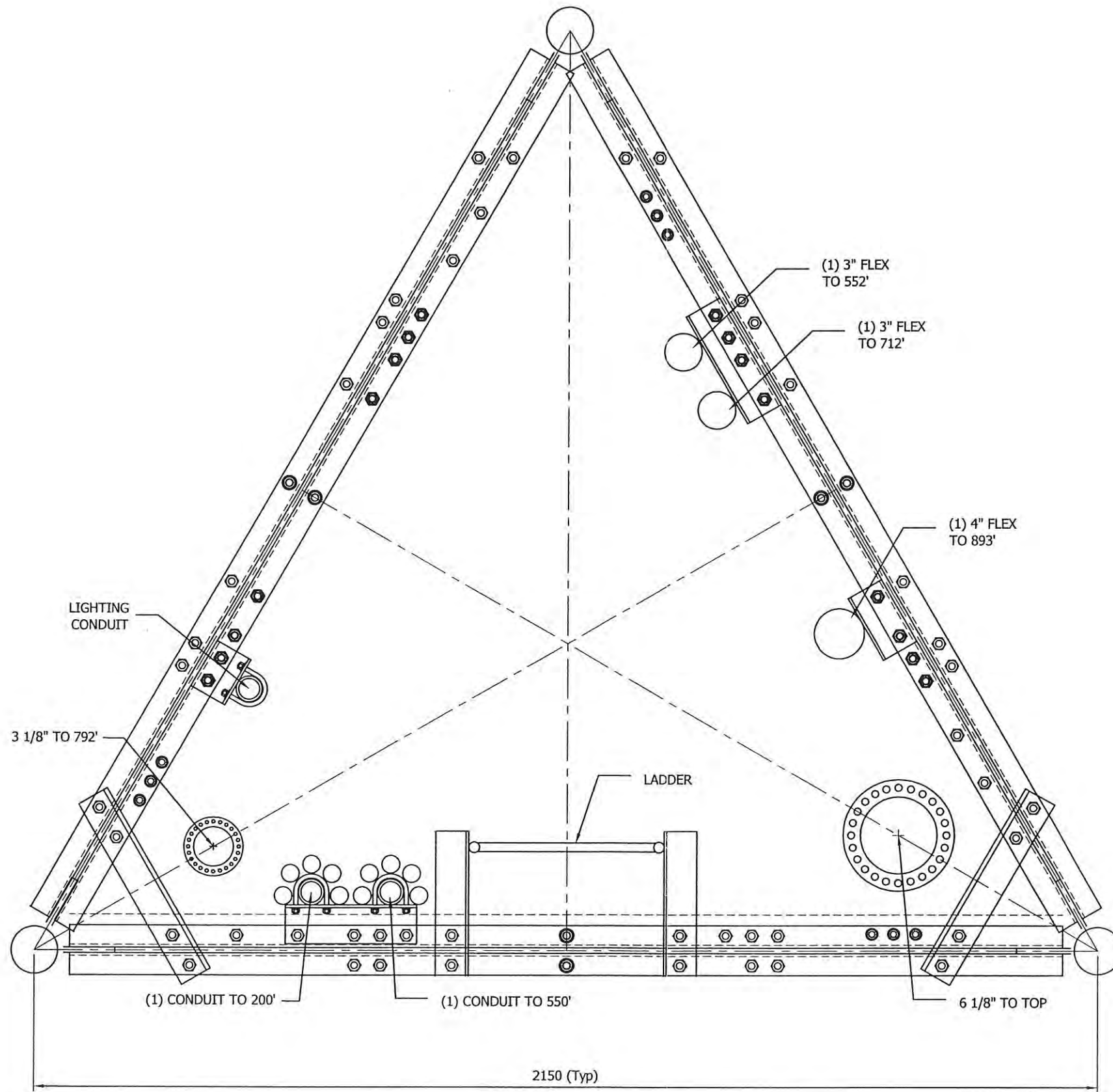
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DRAWING NO: 07-NKHS-P02-01      REV: 0

FILE NO. 0170123

REVISIONS

REV.	DESCRIPTION	DWN	CHK	APP



TX LINE LAYOUT (PLAN VIEW)

DWG REFERENCE



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N.E.T.V - KXNE-TV  
 TOWER PROFILE  
 TYPICAL SECTION (PLAN)  
 NORFOLK, NE

DWN: SIP	CHK'D:	DATE: Jan/06/2003
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ENG'R: EV	ENG'R APP'D:
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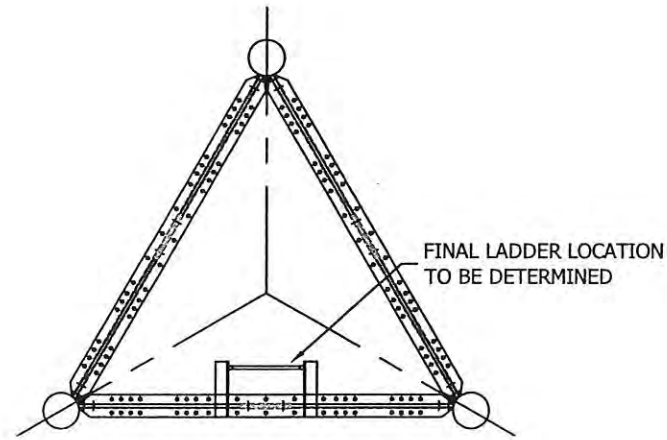
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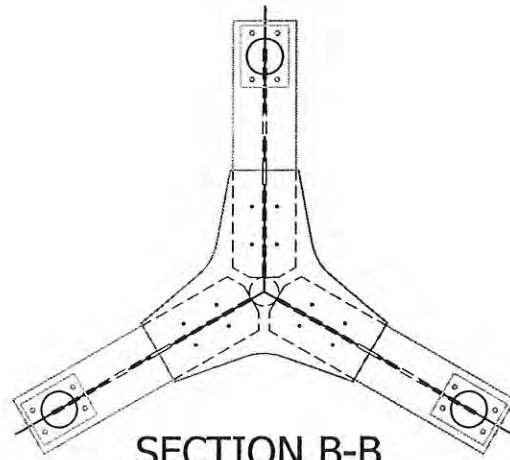
Proposal

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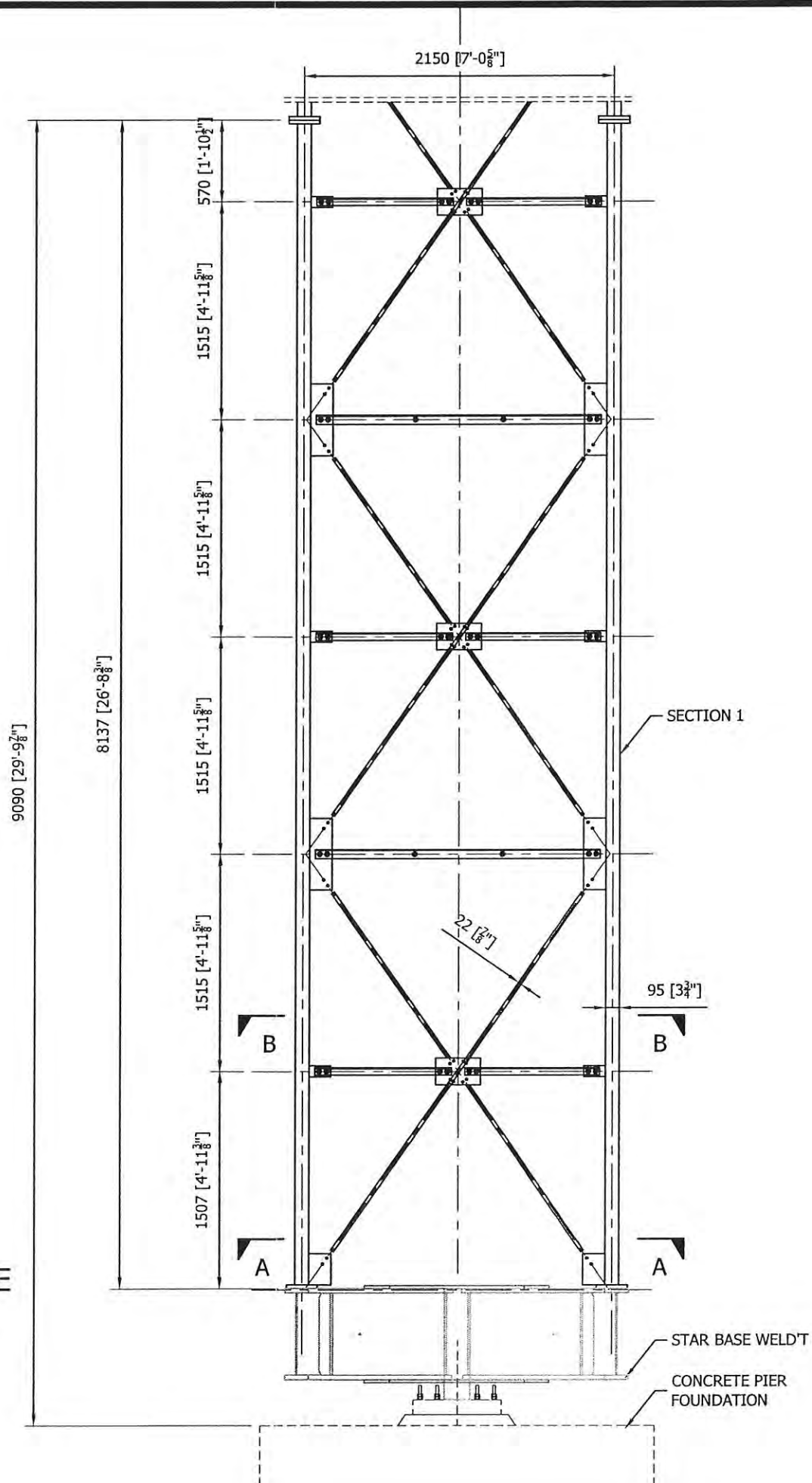


**SECTION A-A**



**SECTION B-B**

**SECTION 1 WITH STAR BASE  
(ELEVATION VIEW)**



FILE NO. 0170123

REVISIONS				
REV.	DESCRIPTION	DWN	CHK	APP

DWG REFERENCE	



  
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**N.E.T.V - KXNE-TV  
 STAR BASE  
 TOWER BASE  
 NORFOLK, NE**

DWN: SIP	CHK'D:	DATE: Jan/06/2003
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ENGR: EV	ENGR APP'D:
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DRAWING NO: 07-NKHS-P04-01	REV: 0
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NAME  
EV

DATE  
Dec 30 2002

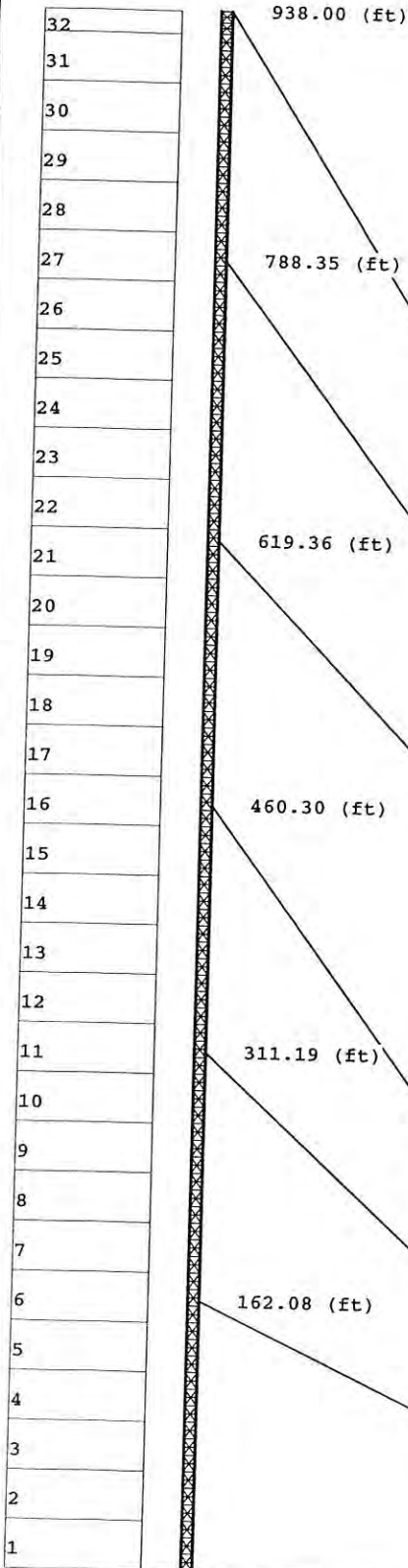
FILE NO.  
0170123

CUSTOMER N.E.T.V. KXNE-TV

PROJECT 938ft RT7

SITE NORFOLK

PAGE 0

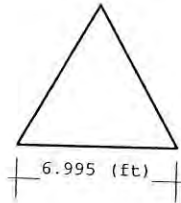


DESIGN SPEC.: EIA-222-F  
 TOWER HEIGHT: 938.00 (ft)  
 BASIC WIND SPEED: 85.00 (mph)  
 RADIAL ICE: 0.50 (in)  
 OPER. WIND SPEED: 50.00 (mph)

Elev. (ft)	Guy Size (in)	Init. Tension (Kips)
162.08	UH 7/8	14.00
311.19	UH 7/8	10.58
460.30	UH 1	14.02
619.36	UH 1	13.00
788.35	UH 1 1/4	21.88
938.00	UH 1 1/16	15.50


Azimuth	Anchor	Radius (ft)	Drop (ft)
0.0	A	680.00	40.00
0.0	B	390.00	30.00
120.0	A	680.00	30.00
120.0	B	390.00	10.00
240.0	A	680.00	20.00
240.0	B	390.00	10.00

CROSS SECTION

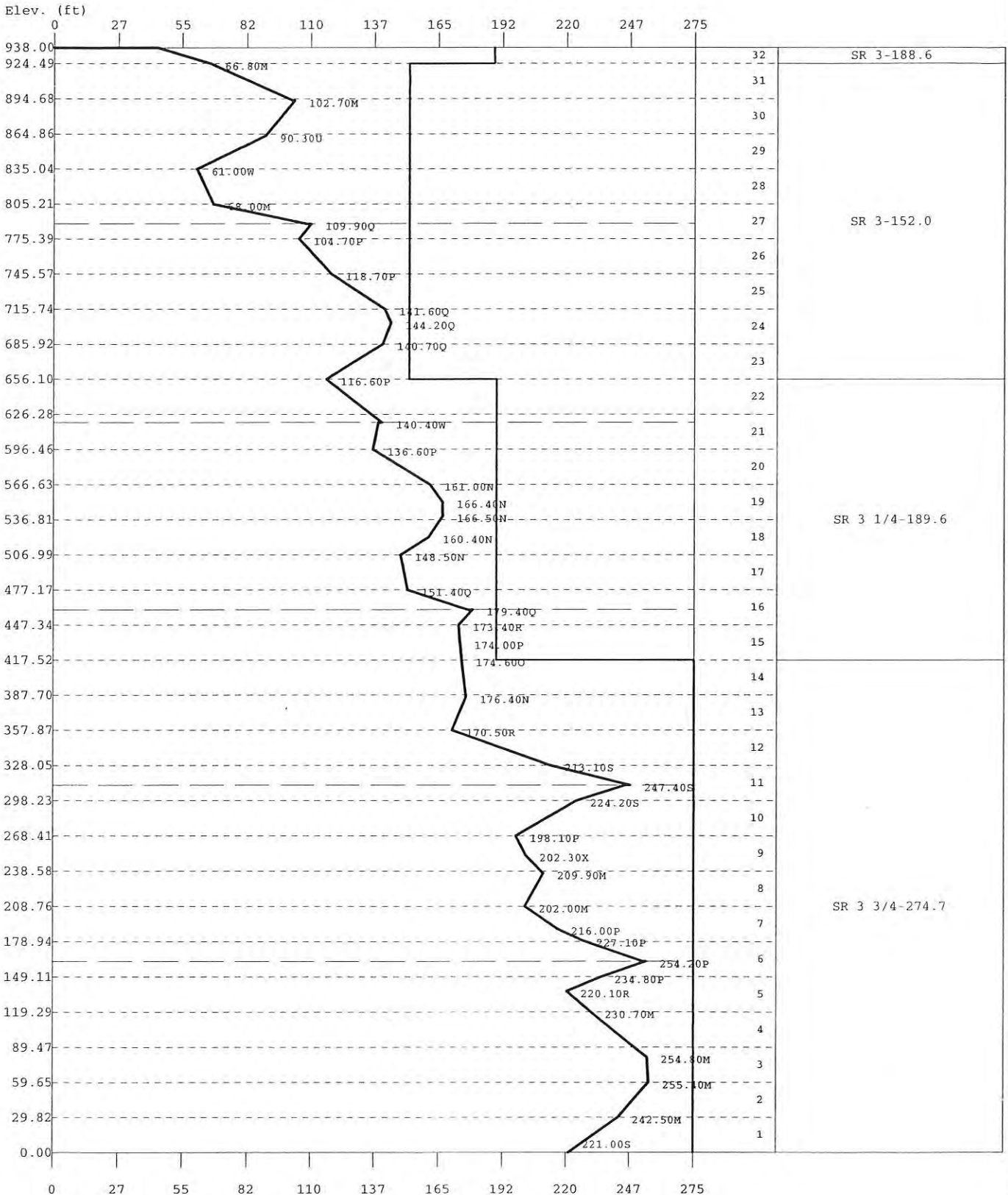


B

A

 <b>RADIAN</b>	<b>NAME</b> EV	<b>DATE</b> Dec 30 2002	<b>FILE NO.</b> 0170123
<b>CUSTOMER</b> N.E.T.V. KXNE-TV			<b>PAGE 0</b>
<b>PROJECT</b> 938ft RT7			
<b>SITE</b> NORFOLK			

**Maximum Leg Compression (Kips)**







NAME  
EV

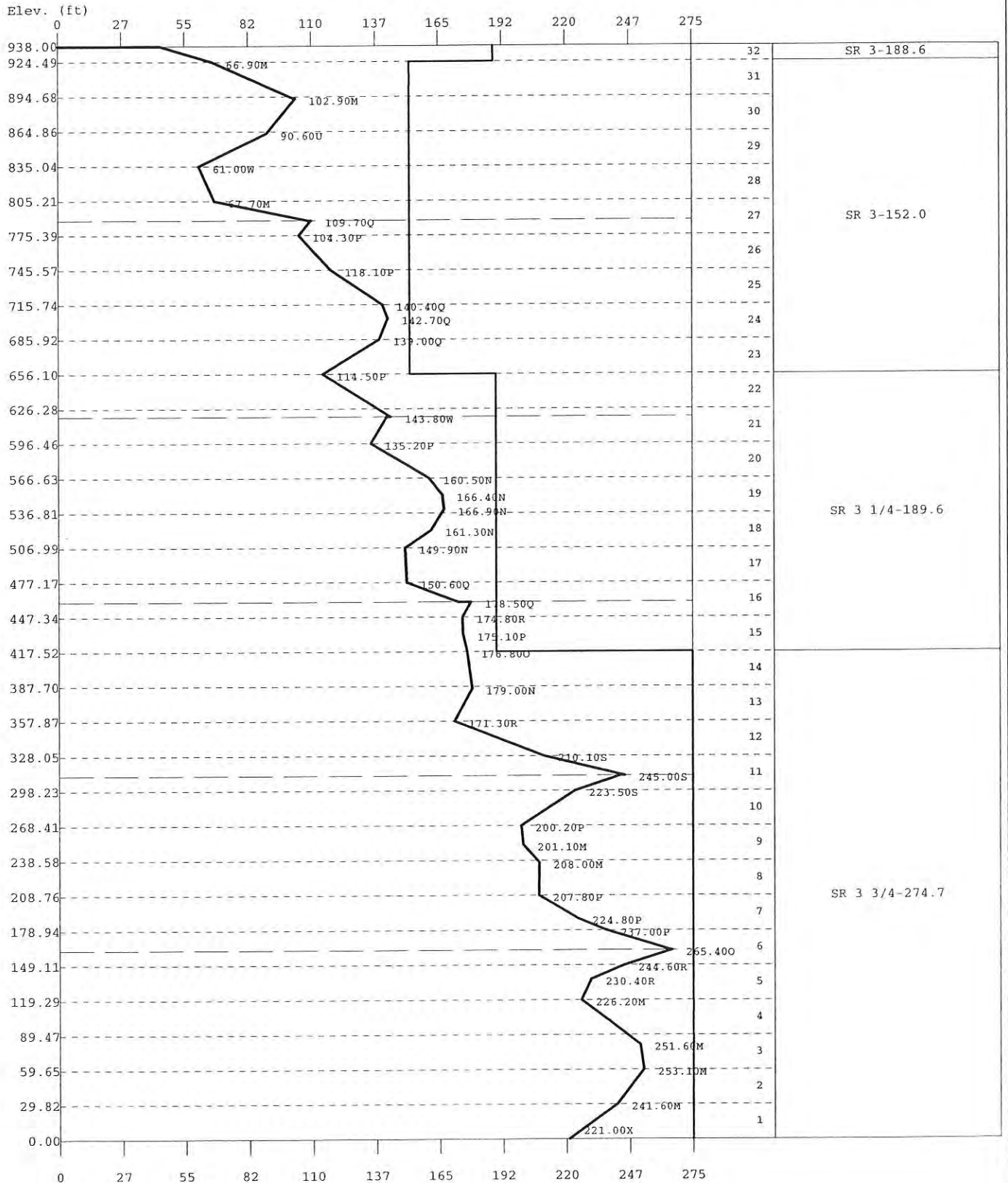
DATE  
Dec 30 2002

FILE NO.  
0170123

CUSTOMER N.E.T.V. KXNE-TV  
PROJECT 938ft RT7  
SITE NORFOLK

PAGE 0

Maximum Leg Compression (Kips)




SR 3-188.6

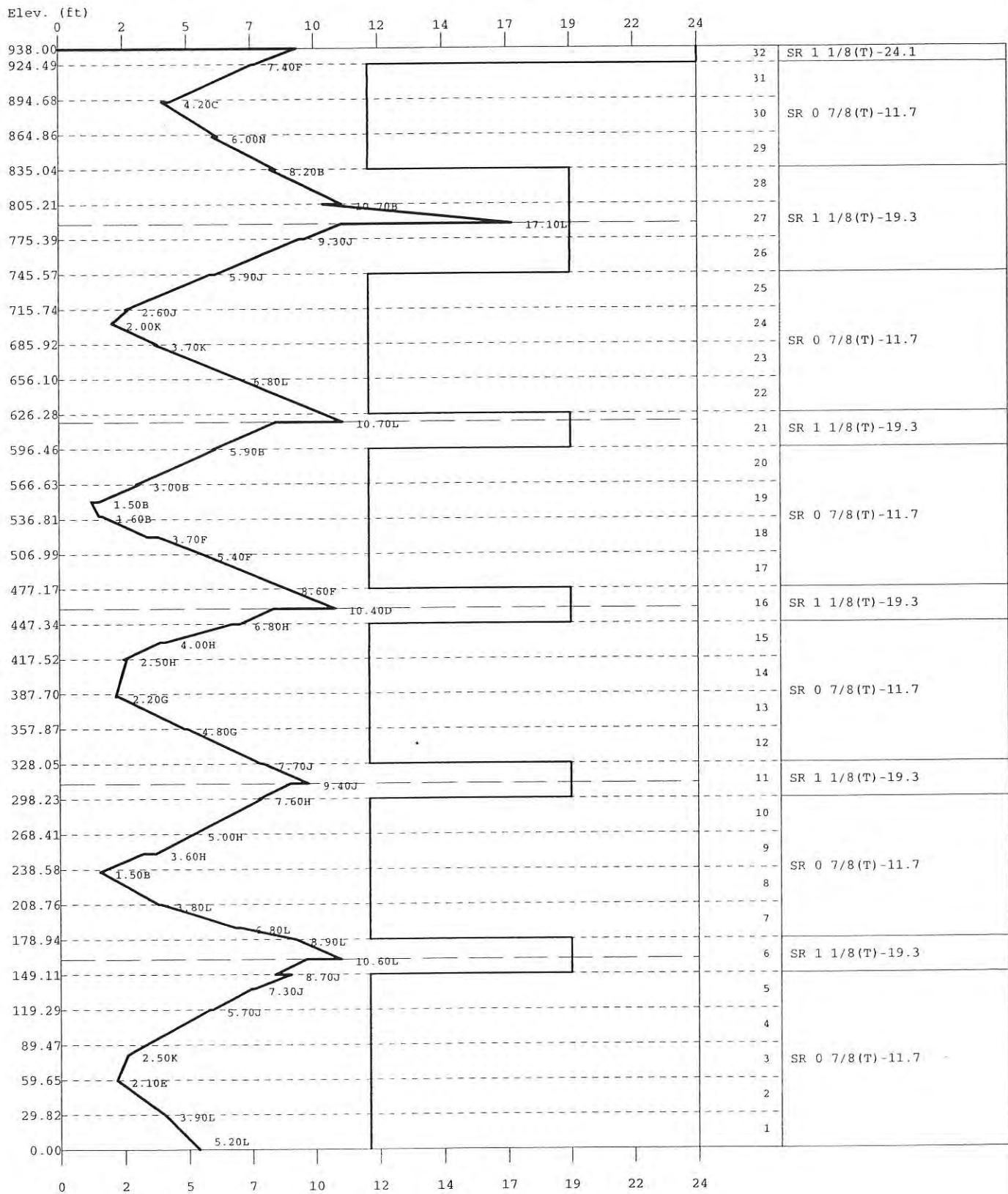
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SR 3 1/4-189.6

SR 3 3/4-274.7

 <b>RADIAN</b>	<b>NAME</b> EV	<b>DATE</b> Dec 30 2002	<b>FILE NO.</b> 0170123
<b>CUSTOMER</b> N.E.T.V. KXNE-TV <b>PROJECT</b> 938ft RT7 <b>SITE</b> NORFOLK	<b>PAGE 0</b>		

**Maximum Face Shear - Diagonal Capacities (Kips)**





NAME  
EV

DATE  
Dec 30 2002

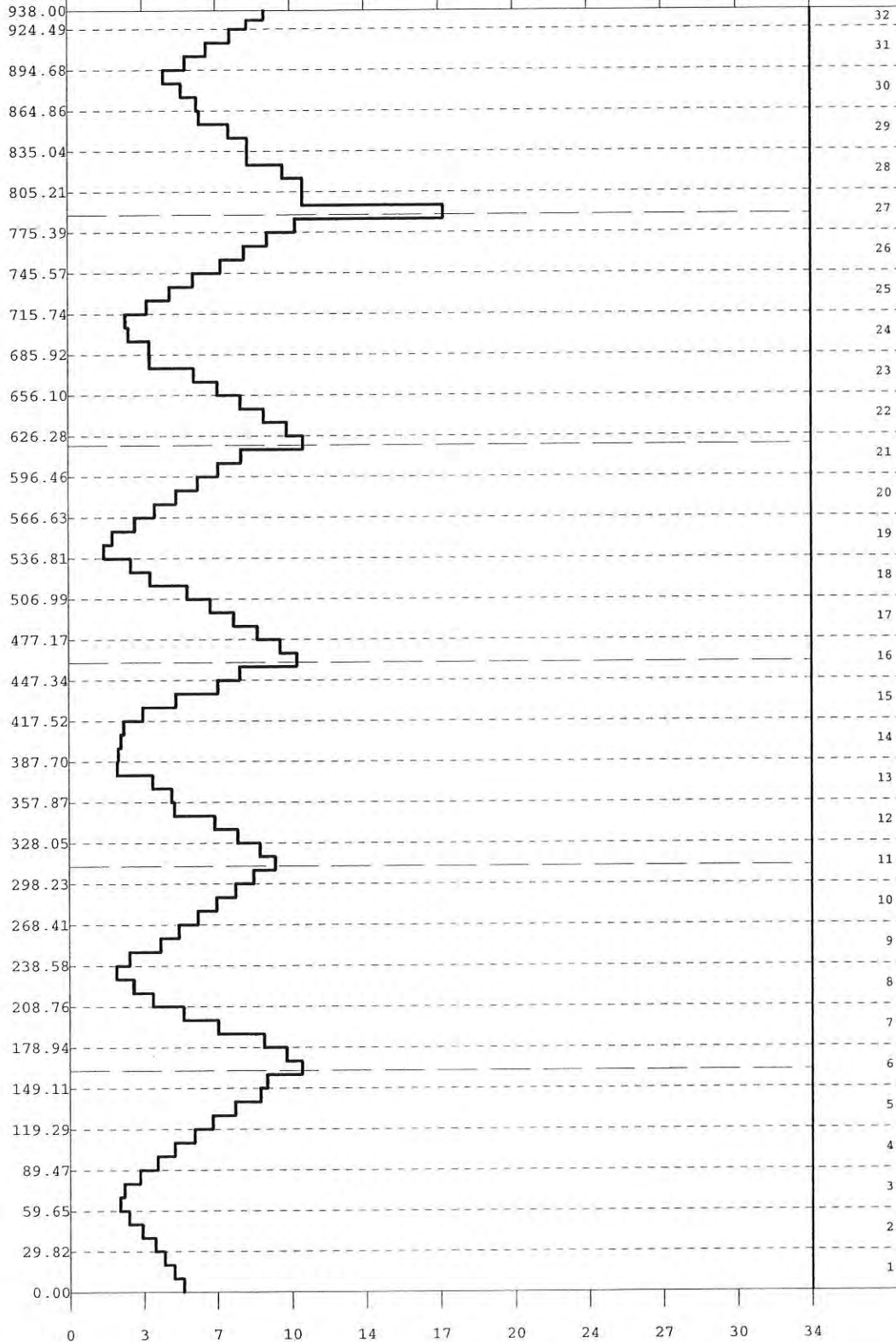
FILE NO.  
0170123

CUSTOMER N.E.T.V. KXNE-TV  
PROJECT 938ft RT7  
SITE NORFOLK

PAGE 0

Maximum Horizontals Compression (Kips)

Elev. (ft) 0 3 7 10 14 17 20 24 27 30 34



(2) L2 1/2x2 1/2x1/4-33.8





NAME  
EV

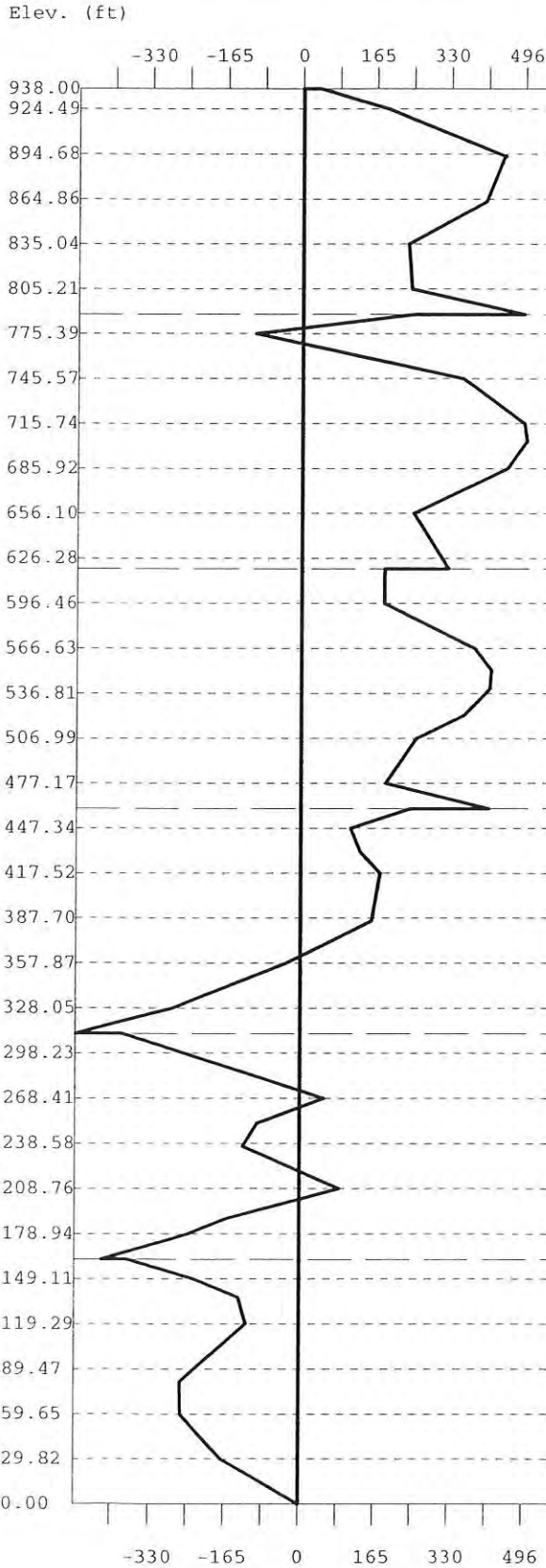
DATE  
Dec 30 2002

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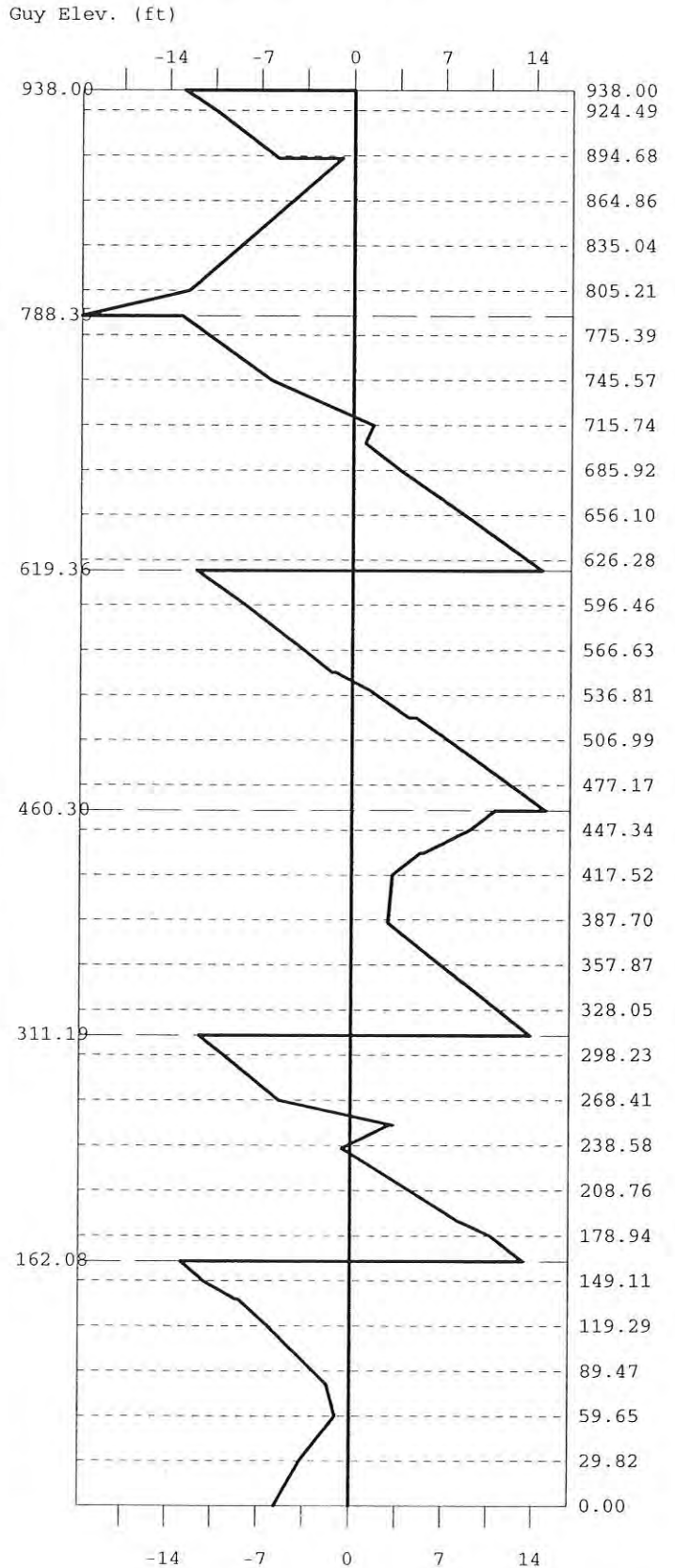
CUSTOMER N.E.T.V. KXNE-TV  
PROJECT 938ft RT7  
SITE NORFOLK

PAGE 0

Mast Moment N-S (Kipsft)



Mast Shear N-S (Kips)





NAME  
EV

DATE  
Dec 30 2002

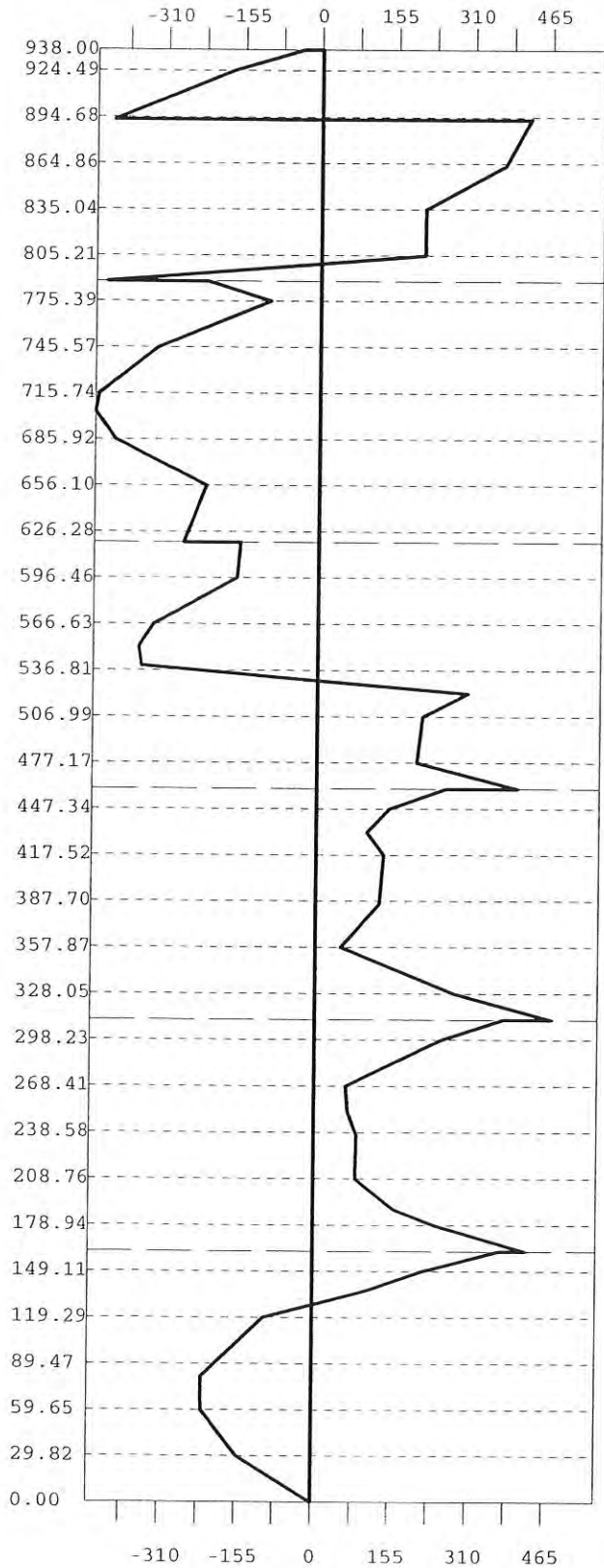
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CUSTOMER N.E.T.V. KXNE-TV  
PROJECT 938ft RT7  
SITE NORFOLK

PAGE 0

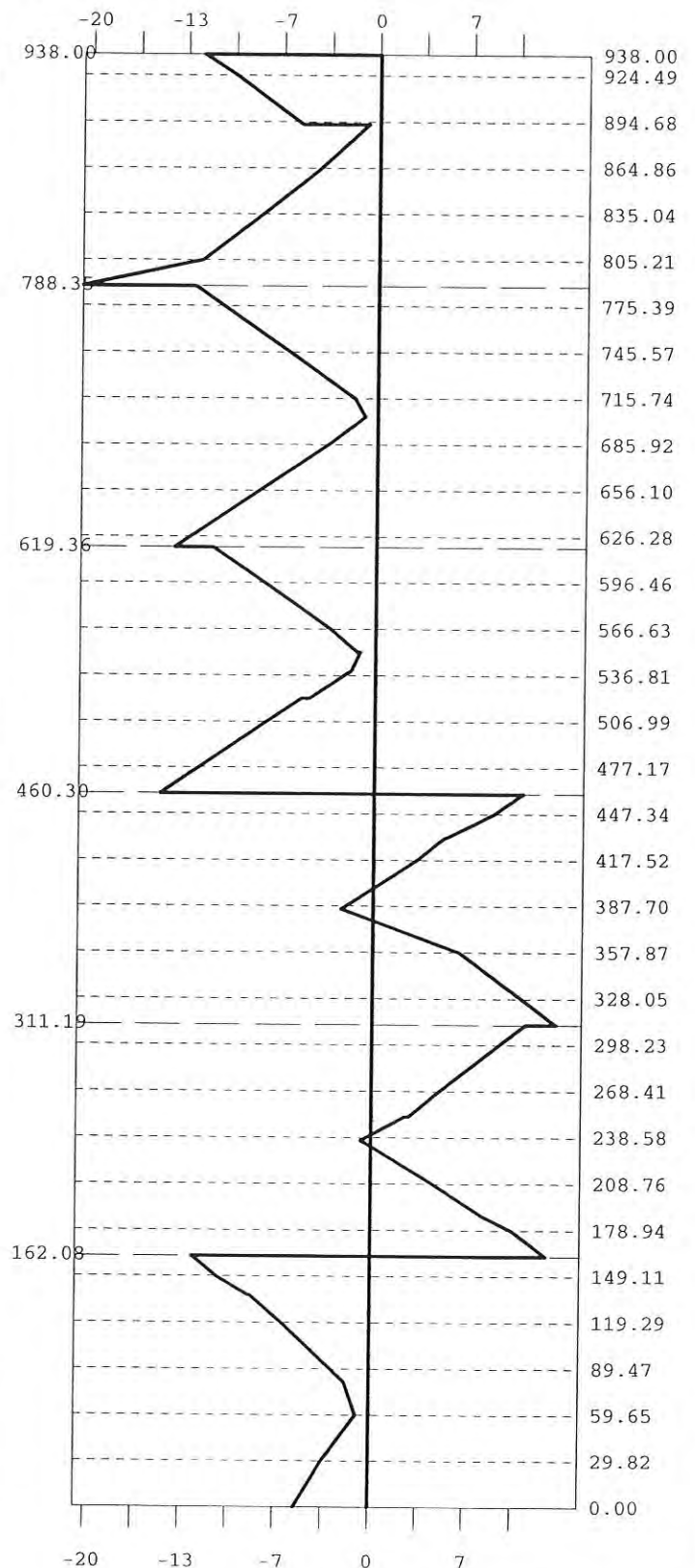
Mast Moment E-W (Kipsft)

Elev. (ft)



Mast Shear E-W (Kips)

Guy Elev. (ft)





NAME  
EV

DATE  
Dec 30 2002

FILE NO.  
0170123

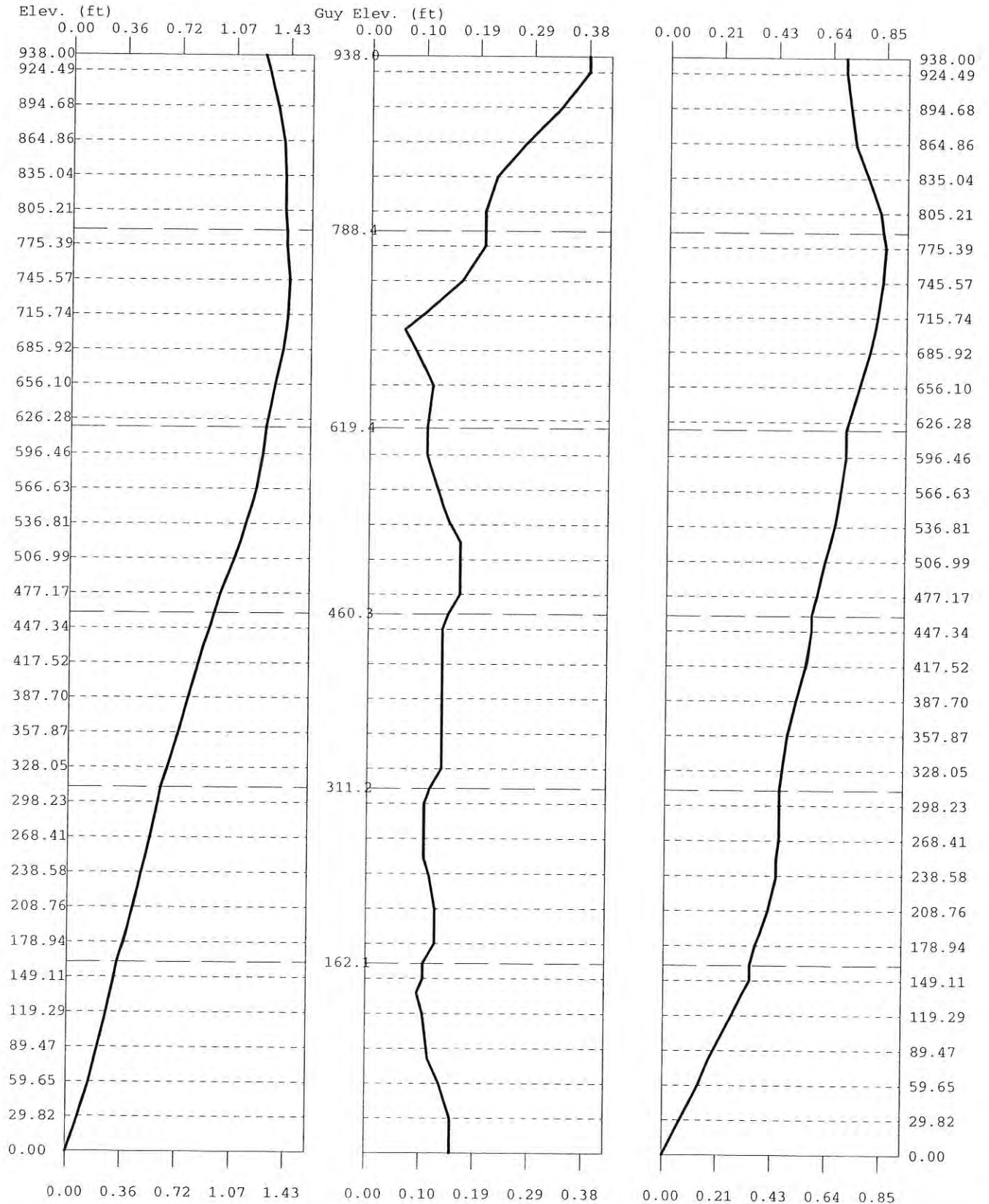
CUSTOMER N.E.T.V. KXNE-TV  
PROJECT 938ft RT7  
SITE NORFOLK

PAGE 0

Deflect. N-S (ft)

Tilt N-S (deg)

Twist (deg)





NAME  
EV

DATE  
Dec 30 2002

FILE NO.  
0170123

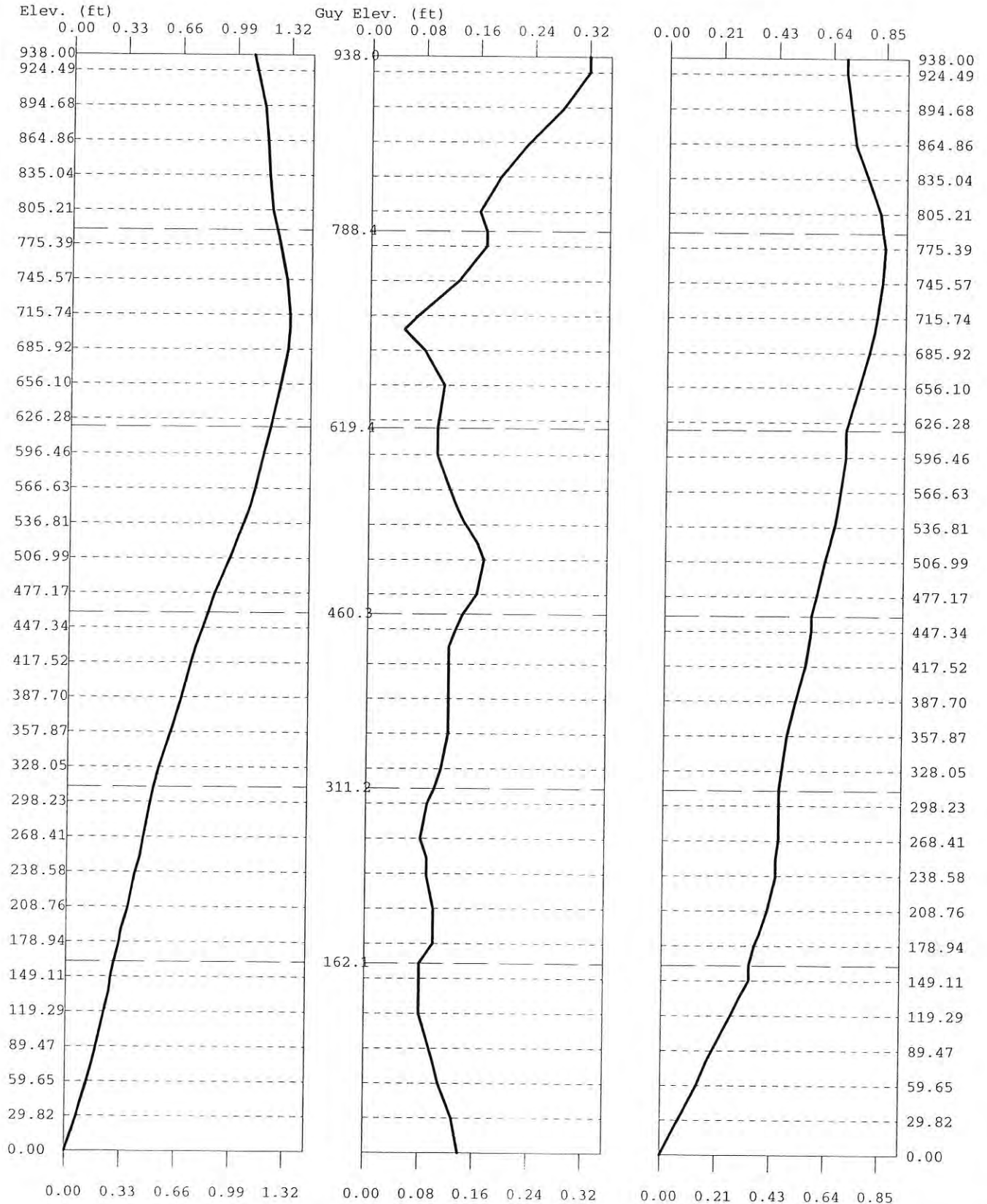
CUSTOMER N.E.T.V. KXNE-TV  
PROJECT 938ft RT7  
SITE NORFOLK

PAGE 0

Deflect. E-W (ft)

Tilt E-W (deg)

Twist (deg)







NAME  
EV

DATE  
Dec 30 2002

FILE NO.  
0170123

CUSTOMER N.E.T.V. KXNE-TV  
PROJECT 938ft RT7  
SITE NORFOLK

PAGE A1

**Section A : STRUCTURE DESCRIPTION DATA**

Section	Pnl	Member	Description	Grade	Conn.	Nbs	Bolt Size	Stitch Bolts
32	All	Leg	SR 3	A572	gr.50 Cont.	N/A	N/A	
		Diag.	SR 1 1/8	A572	gr.50 Bolted	2	3/4 in	
		Horiz.	(2)L2 1/2x2 1/2x1/4	300W	Bolted	2	5/8 in	1
		Face Red.	1 L2x2x1/4	300W	Bolted	2	5/8 in	
31	All	Leg	SR 3	A572	gr.50 Cont.	N/A	N/A	
		Diag.	SR 0 7/8	A572	gr.50 Bolted	2	3/4 in	
		Horiz.	(2)L2 1/2x2 1/2x1/4	300W	Bolted	2	5/8 in	1
		Face Red.	1 L2x2x1/4	300W	Bolted	2	5/8 in	
30	All	Leg	SR 3	A572	gr.50 Cont.	N/A	N/A	
		Diag.	SR 0 7/8	A572	gr.50 Bolted	2	3/4 in	
		Horiz.	(2)L2 1/2x2 1/2x1/4	300W	Bolted	2	5/8 in	1
		Face Red.	1 L2x2x1/4	300W	Bolted	2	5/8 in	
29	All	Leg	SR 3	A572	gr.50 Cont.	N/A	N/A	
		Diag.	SR 0 7/8	A572	gr.50 Bolted	2	3/4 in	
		Horiz.	(2)L2 1/2x2 1/2x1/4	300W	Bolted	2	5/8 in	1
		Face Red.	1 L2x2x1/4	300W	Bolted	2	5/8 in	
28	All	Leg	SR 3	A572	gr.50 Cont.	N/A	N/A	
		Diag.	SR 1 1/8	A572	gr.50 Bolted	2	7/8 in	
		Horiz.	(2)L2 1/2x2 1/2x1/4	300W	Bolted	2	5/8 in	1
		Face Red.	1 L2x2x1/4	300W	Bolted	2	5/8 in	
27	All	Leg	SR 3	A572	gr.50 Cont.	N/A	N/A	
		Diag.	SR 1 1/8	A572	gr.50 Bolted	2	7/8 in	
		Horiz.	(2)L2 1/2x2 1/2x1/4	300W	Bolted	2	5/8 in	1
		Face Red.	1 L2x2x1/4	300W	Bolted	2	5/8 in	
26	All	Leg	SR 3	A572	gr.50 Cont.	N/A	N/A	
		Diag.	SR 1 1/8	A572	gr.50 Bolted	2	7/8 in	
		Horiz.	(2)L2 1/2x2 1/2x1/4	300W	Bolted	2	5/8 in	1
		Face Red.	1 L2x2x1/4	300W	Bolted	2	5/8 in	
25	All	Leg	SR 3	A572	gr.50 Cont.	N/A	N/A	
		Diag.	SR 0 7/8	A572	gr.50 Bolted	2	5/8 in	
		Horiz.	(2)L2 1/2x2 1/2x1/4	300W	Bolted	2	5/8 in	1
		Face Red.	1 L2x2x1/4	300W	Bolted	2	5/8 in	
24	All	Leg	SR 3	A572	gr.50 Cont.	N/A	N/A	
		Diag.	SR 0 7/8	A572	gr.50 Bolted	2	5/8 in	
		Horiz.	(2)L2 1/2x2 1/2x1/4	300W	Bolted	2	5/8 in	1
		Face Red.	1 L2x2x1/4	300W	Bolted	2	5/8 in	
23	All	Leg	SR 3	A572	gr.50 Cont.	N/A	N/A	
		Diag.	SR 0 7/8	A572	gr.50 Bolted	2	5/8 in	
		Horiz.	(2)L2 1/2x2 1/2x1/4	300W	Bolted	2	5/8 in	1
		Face Red.	1 L2x2x1/4	300W	Bolted	2	5/8 in	
22	All	Leg	SR 3 1/4	A572	gr.50 Cont.	N/A	N/A	
		Diag.	SR 0 7/8	A572	gr.50 Bolted	2	3/4 in	
		Horiz.	(2)L2 1/2x2 1/2x1/4	300W	Bolted	2	5/8 in	1
		Face Red.	1 L2x2x1/4	300W	Bolted	2	5/8 in	
21	All	Leg	SR 3 1/4	A572	gr.50 Cont.	N/A	N/A	
		Diag.	SR 1 1/8	A572	gr.50 Bolted	2	5/8 in	
		Horiz.	(2)L2 1/2x2 1/2x1/4	300W	Bolted	2	5/8 in	1
		Face Red.	1 L2x2x1/4	300W	Bolted	2	5/8 in	
20	All	Leg	SR 3 1/4	A572	gr.50 Cont.	N/A	N/A	
		Diag.	SR 0 7/8	A572	gr.50 Bolted	2	5/8 in	
		Horiz.	(2)L2 1/2x2 1/2x1/4	300W	Bolted	2	5/8 in	1
		Face Red.	1 L2x2x1/4	300W	Bolted	2	5/8 in	
19	All	Leg	SR 3 1/4	A572	gr.50 Cont.	N/A	N/A	
		Diag.	SR 0 7/8	A572	gr.50 Bolted	2	5/8 in	
		Horiz.	(2)L2 1/2x2 1/2x1/4	300W	Bolted	2	5/8 in	1
		Face Red.	1 L2x2x1/4	300W	Bolted	2	5/8 in	
18	All	Leg	SR 3 1/4	A572	gr.50 Cont.	N/A	N/A	
		Diag.	SR 0 7/8	A572	gr.50 Bolted	2	7/8 in	
		Horiz.	(2)L2 1/2x2 1/2x1/4	300W	Bolted	2	5/8 in	1
		Face Red.	1 L2x2x1/4	300W	Bolted	2	5/8 in	
17	All	Leg	SR 3 1/4	A572	gr.50 Cont.	N/A	N/A	
		Diag.	SR 0 7/8	A572	gr.50 Bolted	2	7/8 in	
		Horiz.	(2)L2 1/2x2 1/2x1/4	300W	Bolted	2	5/8 in	1
		Face Red.	1 L2x2x1/4	300W	Bolted	2	5/8 in	
16	All	Leg	SR 3 1/4	A572	gr.50 Cont.	N/A	N/A	
		Diag.	SR 1 1/8	A572	gr.50 Bolted	2	5/8 in	
		Horiz.	(2)L2 1/2x2 1/2x1/4	300W	Bolted	2	5/8 in	1



NAME  
EV

DATE  
Dec 30 2002

FILE NO.  
0170123

CUSTOMER N.E.T.V. KXNE-TV


PROJECT 938ft RT7

SITE NORFOLK

PAGE A2


Section A : STRUCTURE DESCRIPTION DATA (cont.)

Section	Pnl	Member	Description	Grade	Conn.	NBs	Bolt Size	Stitch Bolts
15	All	Face Red.	1 L2x2x1/4	300W	Bolted	2	5/8 in	
		Leg	SR 3 1/4	A572 gr.50	Cont.	N/A	N/A	
		Diag.	SR 0 7/8	A572 gr.50	Bolted	2	5/8 in	
		Horiz.	(2)L2 1/2x2 1/2x1/4	300W	Bolted	2	5/8 in	1
14	All	Face Red.	1 L2x2x1/4	300W	Bolted	2	5/8 in	
		Leg	SR 3 3/4	A572 gr.50	Cont.	N/A	N/A	
		Diag.	SR 0 7/8	A572 gr.50	Bolted	2	5/8 in	
		Horiz.	(2)L2 1/2x2 1/2x1/4	300W	Bolted	2	5/8 in	1
13	All	Face Red.	1 L2x2x1/4	300W	Bolted	2	5/8 in	
		Leg	SR 3 3/4	A572 gr.50	Cont.	N/A	N/A	
		Diag.	SR 0 7/8	A572 gr.50	Bolted	2	5/8 in	
		Horiz.	(2)L2 1/2x2 1/2x1/4	300W	Bolted	2	5/8 in	1
12	All	Face Red.	1 L2x2x1/4	300W	Bolted	2	5/8 in	
		Leg	SR 3 3/4	A572 gr.50	Cont.	N/A	N/A	
		Diag.	SR 0 7/8	A572 gr.50	Bolted	2	5/8 in	
		Horiz.	(2)L2 1/2x2 1/2x1/4	300W	Bolted	2	5/8 in	1
11	All	Face Red.	1 L2x2x1/4	300W	Bolted	2	5/8 in	
		Leg	SR 3 3/4	A572 gr.50	Cont.	N/A	N/A	
		Diag.	SR 1 1/8	A572 gr.50	Bolted	2	5/8 in	
		Horiz.	(2)L2 1/2x2 1/2x1/4	300W	Bolted	2	5/8 in	1
10	All	Face Red.	1 L2x2x1/4	300W	Bolted	2	5/8 in	
		Leg	SR 3 3/4	A572 gr.50	Cont.	N/A	N/A	
		Diag.	SR 0 7/8	A572 gr.50	Bolted	2	5/8 in	
		Horiz.	(2)L2 1/2x2 1/2x1/4	300W	Bolted	2	5/8 in	1
9	All	Face Red.	1 L2x2x1/4	300W	Bolted	2	5/8 in	
		Leg	SR 3 3/4	A572 gr.50	Cont.	N/A	N/A	
		Diag.	SR 0 7/8	A572 gr.50	Bolted	2	5/8 in	
		Horiz.	(2)L2 1/2x2 1/2x1/4	300W	Bolted	2	5/8 in	1
8	All	Face Red.	1 L2x2x1/4	300W	Bolted	2	5/8 in	
		Leg	SR 3 3/4	A572 gr.50	Cont.	N/A	N/A	
		Diag.	SR 0 7/8	A572 gr.50	Bolted	2	5/8 in	
		Horiz.	(2)L2 1/2x2 1/2x1/4	300W	Bolted	2	5/8 in	1
7	All	Face Red.	1 L2x2x1/4	300W	Bolted	2	5/8 in	
		Leg	SR 3 3/4	A572 gr.50	Cont.	N/A	N/A	
		Diag.	SR 0 7/8	A572 gr.50	Bolted	2	5/8 in	
		Horiz.	(2)L2 1/2x2 1/2x1/4	300W	Bolted	2	5/8 in	1
6	All	Face Red.	1 L2x2x1/4	300W	Bolted	2	5/8 in	
		Leg	SR 3 3/4	A572 gr.50	Cont.	N/A	N/A	
		Diag.	SR 1 1/8	A572 gr.50	Bolted	2	5/8 in	
		Horiz.	(2)L2 1/2x2 1/2x1/4	300W	Bolted	2	5/8 in	1
5	All	Face Red.	1 L2x2x1/4	300W	Bolted	2	5/8 in	
		Leg	SR 3 3/4	A572 gr.50	Cont.	N/A	N/A	
		Diag.	SR 0 7/8	A572 gr.50	Bolted	2	5/8 in	
		Horiz.	(2)L2 1/2x2 1/2x1/4	300W	Bolted	2	5/8 in	1
4	All	Face Red.	1 L2x2x1/4	300W	Bolted	2	5/8 in	
		Leg	SR 3 3/4	A572 gr.50	Cont.	N/A	N/A	
		Diag.	SR 0 7/8	A572 gr.50	Bolted	2	5/8 in	
		Horiz.	(2)L2 1/2x2 1/2x1/4	300W	Bolted	2	5/8 in	1
3	All	Face Red.	1 L2x2x1/4	300W	Bolted	2	5/8 in	
		Leg	SR 3 3/4	A572 gr.50	Cont.	N/A	N/A	
		Diag.	SR 0 7/8	A572 gr.50	Bolted	2	5/8 in	
		Horiz.	(2)L2 1/2x2 1/2x1/4	300W	Bolted	2	5/8 in	1
2	All	Face Red.	1 L2x2x1/4	300W	Bolted	2	5/8 in	
		Leg	SR 3 3/4	A572 gr.50	Cont.	N/A	N/A	
		Diag.	SR 0 7/8	A572 gr.50	Bolted	2	5/8 in	
		Horiz.	(2)L2 1/2x2 1/2x1/4	300W	Bolted	2	5/8 in	1
1	All	Face Red.	1 L2x2x1/4	300W	Bolted	2	5/8 in	
		Leg	SR 3 3/4	A572 gr.50	Cont.	N/A	N/A	
		Diag.	SR 0 7/8	A572 gr.50	Bolted	2	5/8 in	
		Horiz.	(2)L2 1/2x2 1/2x1/4	300W	Bolted	2	5/8 in	1
		Face Red.	1 L2x2x1/4	300W	Bolted	2	5/8 in	

 <b>RADIAN</b>	<b>NAME</b> EV	<b>DATE</b> Dec 30 2002	<b>FILE NO.</b> 0170123
<b>CUSTOMER</b> N.E.T.V. KXNE-TV <b>PROJECT</b> 938ft RT7 <b>SITE</b> NORFOLK			<b>PAGE B1</b>


**Section B : GUY GEOMETRY**

Elevat. (ft)	Azi.	Diamet.	Height (ft)	Radius (ft)	Attach. Radius (ft)	Attach. Azi.	Initial Tension (Kips)
938.00	0.0	1.0625	-40.00	680.00	3.930	0.0	15.50
938.00	120.0	1.0625	-30.00	680.00	3.930	120.0	15.50
938.00	240.0	1.0625	-20.00	680.00	3.930	240.0	15.50
788.35	0.0	1.2500	-40.00	680.00	4.639	0.0	21.88
788.35	120.0	1.2500	-30.00	680.00	4.639	120.0	21.88
788.35	240.0	1.2500	-20.00	680.00	4.639	240.0	21.88
619.36	0.0	1.0000	-40.00	680.00	4.639	0.0	13.00
619.36	120.0	1.0000	-30.00	680.00	4.639	120.0	13.00
619.36	240.0	1.0000	-20.00	680.00	4.639	240.0	13.00
460.30	0.0	1.0000	-30.00	390.00	4.639	0.0	14.02
460.30	120.0	1.0000	-10.00	390.00	4.639	120.0	14.02
460.30	240.0	1.0000	-10.00	390.00	4.639	240.0	14.02
311.19	0.0	0.8750	-30.00	390.00	4.639	0.0	10.58
311.19	120.0	0.8750	-10.00	390.00	4.639	120.0	10.58
311.19	240.0	0.8750	-10.00	390.00	4.639	240.0	10.58
162.08	0.0	0.8750	-30.00	390.00	4.639	0.0	14.00
162.08	120.0	0.8750	-10.00	390.00	4.639	120.0	14.00
162.08	240.0	0.8750	-10.00	390.00	4.639	240.0	14.00

 <b>RADIAN</b>	<b>NAME</b> EV	<b>DATE</b> Dec 30 2002	<b>FILE NO.</b> 0170123
<b>CUSTOMER</b> N.E.T.V. KXNE-TV <b>PROJECT</b> 938ft RT7 <b>SITE</b> NORFOLK			<b>PAGE C1</b>

**Section C : STRUCTURE MASS DATA**

Section Descript.	Legs Mass (lbs)	Bracings Mass (lbs)	Red.Mass (lbs)	Total (lbs)
32	1170.04	881.41	161.08	2212.54
31	2582.15	1148.44	241.63	3972.22
30	2582.14	1148.44	241.63	3972.21
29	2582.72	1148.52	241.63	3972.86
28	2582.71	1499.60	241.63	4323.94
27	2582.71	1499.60	241.63	4323.94
26	2582.72	1499.60	241.63	4323.95
25	2582.71	1148.52	241.63	3972.86
24	2582.71	1148.52	241.63	3972.86
23	2582.71	1148.52	241.63	3972.86
22	3031.11	1148.48	241.63	4421.22
21	3031.44	1499.60	241.63	4772.67
20	3031.44	1148.52	241.63	4421.59
19	3031.45	1148.52	241.63	4421.59
18	3031.44	1148.52	241.63	4421.59
17	3031.44	1148.52	241.63	4421.59
16	3031.44	1499.60	241.63	4772.67
15	3031.44	1148.52	241.63	4421.59
14	4035.67	1148.52	241.63	5425.82
13	4035.67	1148.52	241.63	5425.81
12	4036.12	1148.56	241.63	5426.30
11	4035.67	1499.60	241.63	5776.90
10	4035.23	1148.48	241.63	5425.33
9	4035.67	1148.52	241.63	5425.81
8	4035.67	1148.52	241.63	5425.82
7	4035.67	1148.52	241.63	5425.82
6	4035.67	1499.60	241.63	5776.90
5	4035.67	1148.52	241.63	5425.82
4	4035.23	1148.48	241.63	5425.33
3	4035.23	1148.48	241.63	5425.33
2	4035.67	1148.52	241.63	5425.82
1	4035.67	1148.52	241.63	5425.82
<b>Total</b>	<b>105163.10</b>	<b>38942.77</b>	<b>7651.51</b>	<b>151757.30</b>

	<b>NAME</b> EV	<b>DATE</b> Dec 30 2002	<b>FILE NO.</b> 0170123
<b>CUSTOMER</b> N.E.T.V. KXNE-TV <b>PROJECT</b> 938ft RT7 <b>SITE</b> NORFOLK			<b>PAGE D1</b>

**Section D : WIND CODE DATA to EIA-222-F**

Basic Wind Speed: 85.00 (mph)

Ice Thickness: 0.50 (in)

Ice Thickness on Guys: 0.50 (in)

Ice Density: 56.18 (lbs/ft<sup>3</sup>)

Operational wind speed: 50.00 (mph)

Wind and Ice Reduction Factor: 0.75

Elev. above ground: 0.00 (ft)

Increase Allowable Stress: Yes

Value of Kz always 2.58: No

Loading Cases Considered:

Wind only Yes


Wind and Ice Yes

Wind only serviceability Yes

Start Wind Direction: 0.00 deg.

End Wind Direction: 330.00 deg.

Increment Wind Direction: 30.00 deg.

 <b>RADIANT</b>	<b>NAME</b> EV	<b>DATE</b> Dec 30 2002	<b>FILE NO.</b> 0170123
<b>CUSTOMER</b> N.E.T.V. KXNE-TV <b>PROJECT</b> 938ft RT7 <b>SITE</b> NORFOLK			<b>PAGE E1</b>

Section E : WIND PRESSURE DISTRIBUTION DATA to EIA-222-F

Elevation (ft)	Wind Pressure (qz*Gh) (psf)
938.00	48.72
931.25	48.72
924.49	48.72
914.55	48.72
904.62	48.71
894.68	48.56
884.74	48.40
874.80	48.25
864.86	48.09
854.92	47.93
844.98	47.77
835.04	47.61
825.10	47.45
815.15	47.28
805.21	47.12
795.27	46.95
785.33	46.78
775.39	46.61
765.45	46.44
755.51	46.27
745.57	46.09
735.63	45.92
725.69	45.74
715.74	45.56
705.80	45.38
695.86	45.19
685.92	45.01
675.98	44.82
666.04	44.63
656.10	44.44
646.16	44.25
636.22	44.05
626.28	43.85
616.34	43.65
606.40	43.45
596.46	43.25
586.52	43.04
576.57	42.83
566.63	42.62
556.69	42.40
546.75	42.18
536.81	41.96
526.87	41.74
516.93	41.51
506.99	41.28
497.05	41.05
487.11	40.81
477.17	40.57
467.22	40.33
457.28	40.08
447.34	39.83
437.40	39.58
427.46	39.32
417.52	39.06
407.58	38.79
397.64	38.51
387.70	38.24
377.76	37.95
367.82	37.67
357.87	37.37
347.93	37.07
337.99	36.77
328.05	36.45
318.11	36.14
308.17	35.81
298.23	35.48
288.29	35.13



NAME  
EV

DATE  
Dec 30 2002


FILE NO.  
0170123

CUSTOMER N.E.T.V. KXNE-TV  
PROJECT 938ft RT7  
SITE NORFOLK

PAGE E2

Section E : WIND PRESSURE DISTRIBUTION DATA to EIA-222-F (cont.)


Elevation (ft)	Wind Pressure (qz*Gh) (psf)
278.35	34.78
268.41	34.42
258.46	34.05
248.52	33.68
238.58	33.28
228.64	32.88
218.70	32.47
208.76	32.04
198.82	31.60
188.88	31.14
178.94	30.66
169.00	30.16
159.06	29.64
149.11	29.10
139.17	28.53
129.23	27.94
119.29	27.30
109.35	26.63
99.41	25.92
89.47	25.15
79.53	24.32
69.59	23.41
59.65	22.40
49.70	21.26
39.76	19.95
29.82	18.88
19.88	18.88
9.94	18.88

 <b>RADIAN</b>	<b>NAME</b> EV	<b>DATE</b> Dec 30 2002	<b>FILE NO.</b> 0170123
<b>CUSTOMER</b> N.E.T.V. KXNE-TV			<b>PAGE F1</b>
<b>PROJECT</b> 938ft RT7			
<b>SITE</b> NORFOLK			

**Section F : WIND AREA DATA to EIA-222-F**

Section	Pan	Flat Area			Round Area		Ice Area (ft^2)	Solid. Ratio	Drag Factor		Dir. Factor		Wind Area (ft^2)
		Gross (ft^2)	Struc (ft^2)	Anc. (ft^2)	Struc (ft^2)	Anc. (ft^2)			Flat	Round	Flat	Round	
Bare Wind Direction = 0.0													
32	1	48.952	4.071	0.000	5.137	2.002	0.000	0.229	2.502	1.493	0.80	1.00	18.808
	2	48.928	4.071	0.000	5.135	2.002	0.000	0.229	2.502	1.493	0.80	1.00	18.803
31	1	72.032	4.071	0.000	6.681	3.017	0.000	0.191	2.626	1.546	0.80	1.00	23.542
	2	71.949	4.071	0.000	6.674	3.013	0.000	0.191	2.626	1.546	0.80	1.00	23.523
	3	72.031	4.071	0.000	6.681	3.017	0.000	0.191	2.626	1.546	0.80	1.00	23.541
30	1	72.004	4.071	0.000	6.679	3.016	0.000	0.191	2.626	1.546	0.80	1.00	23.535
	2	72.004	4.071	0.000	6.679	3.032	0.000	0.191	2.625	1.545	0.80	1.00	23.555
	3	72.004	4.071	0.000	6.679	3.032	0.000	0.191	2.625	1.545	0.80	1.00	23.555
29	1	72.020	4.071	0.000	6.680	3.033	0.000	0.191	2.625	1.545	0.80	1.00	23.558
	2	72.020	4.071	0.000	6.680	3.033	0.000	0.191	2.625	1.545	0.80	1.00	23.558
	3	72.020	4.071	0.000	6.680	3.033	0.000	0.191	2.625	1.545	0.80	1.00	23.558
28	1	72.020	4.071	0.000	7.168	2.995	0.000	0.198	2.604	1.536	0.80	1.00	24.092
	2	72.020	4.071	0.000	7.168	2.995	0.000	0.198	2.604	1.536	0.80	1.00	24.092
	3	72.020	4.071	0.000	7.168	2.995	0.000	0.198	2.604	1.536	0.80	1.00	24.092
27	1	72.020	4.071	0.000	7.168	2.995	0.000	0.198	2.604	1.536	0.80	1.00	24.092
	2	72.020	4.071	0.000	7.168	2.995	0.000	0.198	2.604	1.536	0.80	1.00	24.092
	3	72.020	4.071	0.000	7.168	2.995	0.000	0.198	2.604	1.536	0.80	1.00	24.092
26	1	72.032	4.071	0.000	7.170	2.995	0.000	0.198	2.604	1.536	0.80	1.00	24.094
	2	71.996	4.071	0.000	7.166	2.994	0.000	0.198	2.604	1.536	0.80	1.00	24.086
	3	72.032	4.071	0.000	7.170	2.995	0.000	0.198	2.604	1.536	0.80	1.00	24.094
25	1	72.020	4.071	0.000	6.680	3.033	0.000	0.191	2.625	1.545	0.80	1.00	23.558
	2	72.020	4.071	0.000	6.680	3.033	0.000	0.191	2.625	1.545	0.80	1.00	23.558
	3	72.020	4.071	0.000	6.680	3.033	0.000	0.191	2.625	1.545	0.80	1.00	23.558
24	1	72.020	4.071	0.000	6.680	4.584	0.000	0.213	2.553	1.514	0.80	1.00	25.374
	2	72.020	4.071	0.000	6.680	5.415	0.000	0.224	2.516	1.499	0.80	1.00	26.325
	3	72.020	4.071	0.000	6.680	5.415	0.000	0.224	2.516	1.499	0.80	1.00	26.325
23	1	72.020	4.071	0.000	6.680	5.415	0.000	0.224	2.516	1.499	0.80	1.00	26.325
	2	72.020	4.071	0.000	6.680	5.415	0.000	0.224	2.516	1.499	0.80	1.00	26.325
	3	72.020	4.071	0.000	6.680	5.415	0.000	0.224	2.516	1.499	0.80	1.00	26.325
22	1	72.203	4.067	0.000	7.087	5.413	0.000	0.229	2.501	1.492	0.80	1.00	26.791
	2	72.227	4.067	0.000	7.089	5.415	0.000	0.229	2.501	1.493	0.80	1.00	26.798
	3	72.227	4.067	0.000	7.089	5.415	0.000	0.229	2.501	1.493	0.80	1.00	26.798
21	1	72.227	4.067	0.000	7.576	5.351	0.000	0.235	2.482	1.485	0.80	1.00	27.273
	2	72.227	4.067	0.000	7.576	5.351	0.000	0.235	2.482	1.485	0.80	1.00	27.273
	3	72.227	4.067	0.000	7.576	5.351	0.000	0.235	2.482	1.485	0.80	1.00	27.273
20	1	72.227	4.067	0.000	7.089	5.415	0.000	0.229	2.501	1.493	0.80	1.00	26.798
	2	72.227	4.067	0.000	7.089	5.415	0.000	0.229	2.501	1.493	0.80	1.00	26.798
	3	72.227	4.067	0.000	7.089	5.415	0.000	0.229	2.501	1.493	0.80	1.00	26.798
19	1	72.227	4.067	0.000	7.089	5.415	0.000	0.229	2.501	1.493	0.80	1.00	26.798
	2	72.227	4.067	0.000	7.089	6.835	0.000	0.249	2.440	1.468	0.80	1.00	28.381
	3	72.227	4.067	0.000	7.089	7.623	0.000	0.260	2.408	1.455	0.80	1.00	29.247
18	1	72.227	4.067	0.000	7.089	7.623	0.000	0.260	2.408	1.455	0.80	1.00	29.247
	2	72.227	4.067	0.000	7.089	7.623	0.000	0.260	2.408	1.455	0.80	1.00	29.247
	3	72.227	4.067	0.000	7.089	7.623	0.000	0.260	2.408	1.455	0.80	1.00	29.247
17	1	72.227	4.067	0.000	7.089	7.623	0.000	0.260	2.408	1.455	0.80	1.00	29.247
	2	72.227	4.067	0.000	7.089	7.623	0.000	0.260	2.408	1.455	0.80	1.00	29.247
	3	72.227	4.067	0.000	7.089	7.623	0.000	0.260	2.408	1.455	0.80	1.00	29.247
16	1	72.227	4.067	0.000	7.576	7.528	0.000	0.265	2.392	1.449	0.80	1.00	29.674
	2	72.227	4.067	0.000	7.576	7.528	0.000	0.265	2.392	1.449	0.80	1.00	29.674
	3	72.227	4.067	0.000	7.576	7.528	0.000	0.265	2.392	1.449	0.80	1.00	29.674
15	1	72.227	4.067	0.000	7.089	7.623	0.000	0.260	2.408	1.455	0.80	1.00	29.247
	2	72.227	4.067	0.000	7.089	7.623	0.000	0.260	2.408	1.455	0.80	1.00	29.247
	3	72.227	4.067	0.000	7.089	7.623	0.000	0.260	2.408	1.455	0.80	1.00	29.247
14	1	72.641	4.058	0.000	7.907	7.623	0.000	0.270	2.380	1.445	0.80	1.00	30.163
	2	72.641	4.058	0.000	7.907	7.623	0.000	0.270	2.380	1.445	0.80	1.00	30.163
	3	72.641	4.058	0.000	7.907	7.623	0.000	0.270	2.380	1.445	0.80	1.00	30.163
13	1	72.641	4.058	0.000	7.907	7.623	0.000	0.270	2.380	1.445	0.80	1.00	30.163
	2	72.641	4.058	0.000	7.907	7.623	0.000	0.270	2.380	1.445	0.80	1.00	30.163
	3	72.641	4.058	0.000	7.907	7.623	0.000	0.270	2.380	1.445	0.80	1.00	30.163
12	1	72.665	4.058	0.000	7.909	7.626	0.000	0.270	2.380	1.445	0.80	1.00	30.171
	2	72.641	4.058	0.000	7.907	7.623	0.000	0.270	2.380	1.445	0.80	1.00	30.163
	3	72.641	4.058	0.000	7.907	7.623	0.000	0.270	2.380	1.445	0.80	1.00	30.163
11	1	72.641	4.058	0.000	8.391	7.528	0.000	0.275	2.365	1.439	0.80	1.00	30.584
	2	72.641	4.058	0.000	8.391	7.528	0.000	0.275	2.365	1.439	0.80	1.00	30.584




 <b>RADIAN</b>		<b>NAME</b> EV	<b>DATE</b> Dec 30 2002	<b>FILE NO.</b> 0170123
<b>CUSTOMER</b> N.E.T.V. KXNE-TV				<b>PAGE F2</b>
<b>PROJECT</b> 938ft RT7				
<b>SITE</b> NORFOLK				

**Section F : WIND AREA DATA to EIA-222-F (cont.)**

Section	Pan	Flat Area			Round Area		Ice Area (ft^2)	Solid. Ratio	Drag Flat	Factor		Wind Area (ft^2)
		Gross (ft^2)	Struc (ft^2)	Anc. (ft^2)	Struc (ft^2)	Anc. (ft^2)				Flat	Round	
10	3	72.641	4.058	0.000	8.391	7.528	0.000	0.275	2.365	1.439	0.80	30.584
	1	72.617	4.058	0.000	7.905	7.621	0.000	0.270	2.380	1.445	0.80	30.156
	2	72.641	4.058	0.000	7.907	7.623	0.000	0.270	2.380	1.445	0.80	30.163
	3	72.641	4.058	0.000	7.907	7.623	0.000	0.270	2.380	1.445	0.80	30.163
9	1	72.641	4.058	0.000	7.907	7.623	0.000	0.270	2.380	1.445	0.80	30.163
	2	72.641	4.058	0.000	7.907	7.623	0.000	0.270	2.380	1.445	0.80	30.163
	3	72.641	4.058	0.000	7.907	7.623	0.000	0.270	2.380	1.445	0.80	30.163
8	1	72.641	4.058	0.000	7.907	7.623	0.000	0.270	2.380	1.445	0.80	30.163
	2	72.641	4.058	0.000	7.907	7.623	0.000	0.270	2.380	1.445	0.80	30.163
	3	72.641	4.058	0.000	7.907	7.623	0.000	0.270	2.380	1.445	0.80	30.163
7	1	72.641	4.058	0.000	7.907	8.462	0.000	0.281	2.347	1.433	0.80	31.069
	2	72.641	4.058	0.000	7.907	12.463	0.000	0.336	2.204	1.383	0.80	35.333
	3	72.641	4.058	0.000	7.907	12.463	0.000	0.336	2.204	1.383	0.80	35.333
6	1	72.641	4.058	0.000	8.391	12.330	0.000	0.341	2.192	1.380	0.80	35.707
	2	72.641	4.058	0.000	8.391	12.330	0.000	0.341	2.192	1.380	0.80	35.707
	3	72.641	4.058	0.000	8.391	12.330	0.000	0.341	2.192	1.380	0.80	35.707
5	1	72.641	4.058	0.000	7.907	12.463	0.000	0.336	2.204	1.383	0.80	35.333
	2	72.641	4.058	0.000	7.907	12.463	0.000	0.336	2.204	1.383	0.80	35.333
	3	72.641	4.058	0.000	7.907	12.463	0.000	0.336	2.204	1.383	0.80	35.333
4	1	72.617	4.058	0.000	7.904	12.463	0.000	0.336	2.204	1.383	0.80	35.328
	2	72.641	4.058	0.000	7.907	12.463	0.000	0.336	2.204	1.383	0.80	35.333
	3	72.641	4.058	0.000	7.907	12.463	0.000	0.336	2.204	1.383	0.80	35.333
3	1	72.617	4.058	0.000	7.904	12.463	0.000	0.336	2.204	1.383	0.80	35.328
	2	72.641	4.058	0.000	7.907	12.463	0.000	0.336	2.204	1.383	0.80	35.333
	3	72.641	4.058	0.000	7.907	12.463	0.000	0.336	2.204	1.383	0.80	35.333
2	1	72.641	4.058	0.000	7.907	12.463	0.000	0.336	2.204	1.383	0.80	35.333
	2	72.641	4.058	0.000	7.907	12.463	0.000	0.336	2.204	1.383	0.80	35.333
	3	72.641	4.058	0.000	7.907	12.463	0.000	0.336	2.204	1.383	0.80	35.333
1	1	72.641	4.058	0.000	7.907	12.463	0.000	0.336	2.204	1.383	0.80	35.333
	2	72.641	4.058	0.000	7.907	12.402	0.000	0.335	2.206	1.384	0.80	35.269
	3	72.641	4.058	0.000	7.907	2.270	0.000	0.196	2.610	1.539	0.80	24.129

Iced Wind Direction = 0.0

32	1	49.515	4.071	0.000	5.137	3.136	3.213	0.314	2.259	1.401	0.80	23.452
	2	49.491	4.071	0.000	5.135	3.136	3.212	0.314	2.259	1.401	0.80	23.446
31	1	72.861	4.071	0.000	6.681	4.767	4.125	0.270	2.380	1.445	0.80	30.250
	2	72.776	4.071	0.000	6.674	4.761	4.121	0.270	2.380	1.445	0.80	30.224
	3	72.860	4.071	0.000	6.681	4.766	4.125	0.270	2.380	1.445	0.80	30.250
30	1	72.832	4.071	0.000	6.679	4.765	4.123	0.270	2.380	1.445	0.80	30.242
	2	72.832	4.071	0.000	6.679	4.765	4.123	0.270	2.380	1.445	0.80	30.242
	3	72.832	4.071	0.000	6.679	4.765	4.123	0.270	2.380	1.445	0.80	30.242
29	1	72.848	4.071	0.000	6.680	4.766	4.124	0.270	2.380	1.445	0.80	30.246
	2	72.848	4.071	0.000	6.680	4.766	4.124	0.270	2.380	1.445	0.80	30.246
	3	72.848	4.071	0.000	6.680	4.766	4.124	0.270	2.380	1.445	0.80	30.247
28	1	72.848	4.071	0.000	7.168	4.732	4.124	0.276	2.362	1.438	0.80	30.738
	2	72.848	4.071	0.000	7.168	4.732	4.124	0.276	2.362	1.438	0.80	30.738
	3	72.848	4.071	0.000	7.168	4.732	4.124	0.276	2.362	1.438	0.80	30.738
27	1	72.848	4.071	0.000	7.168	4.732	4.124	0.276	2.362	1.438	0.80	30.738
	2	72.848	4.071	0.000	7.168	4.732	4.124	0.276	2.362	1.438	0.80	30.738
	3	72.848	4.071	0.000	7.168	4.732	4.124	0.276	2.362	1.438	0.80	30.738
26	1	72.860	4.071	0.000	7.170	4.733	4.125	0.276	2.362	1.438	0.80	30.742
	2	72.824	4.071	0.000	7.166	4.730	4.123	0.276	2.362	1.438	0.80	30.731
	3	72.860	4.071	0.000	7.170	4.733	4.125	0.276	2.362	1.438	0.80	30.742
25	1	72.848	4.071	0.000	6.680	4.766	4.124	0.270	2.380	1.445	0.80	30.246
	2	72.848	4.071	0.000	6.680	4.766	4.124	0.270	2.380	1.445	0.80	30.246
	3	72.848	4.071	0.000	6.680	4.766	4.124	0.270	2.380	1.445	0.80	30.246
24	1	72.848	4.071	0.000	6.680	5.480	4.124	0.279	2.352	1.434	0.80	31.019
	2	72.848	4.071	0.000	6.680	6.462	4.124	0.293	2.315	1.421	0.80	32.073
	3	72.848	4.071	0.000	6.680	6.462	4.124	0.293	2.315	1.421	0.80	32.073
23	1	72.848	4.071	0.000	6.680	6.462	4.124	0.293	2.315	1.421	0.80	32.073
	2	72.848	4.071	0.000	6.680	6.462	4.124	0.293	2.315	1.421	0.80	32.073
	3	72.848	4.071	0.000	6.680	6.462	4.124	0.293	2.315	1.421	0.80	32.073
22	1	73.031	4.067	0.000	7.087	6.460	4.115	0.298	2.303	1.416	0.80	32.509
	2	73.055	4.067	0.000	7.089	6.462	4.116	0.298	2.303	1.416	0.80	32.517
	3	73.055	4.067	0.000	7.089	6.462	4.116	0.298	2.303	1.416	0.80	32.517
21	1	73.055	4.067	0.000	7.576	6.374	4.116	0.303	2.288	1.411	0.80	32.942

 <b>RADIAN</b>		<b>NAME</b> EV	<b>DATE</b> Dec 30 2002	<b>FILE NO.</b> 0170123
<b>CUSTOMER</b> N.E.T.V. KXNE-TV				<b>PAGE F3</b>
<b>PROJECT</b> 938ft RT7				
<b>SITE</b> NORFOLK				

**Section F : WIND AREA DATA to EIA-222-F (cont.)**

Section	Pan	Flat Area			Round Area		Ice Area (ft^2)	Solid. Ratio	Drag Flat	Factor		Wind Area (ft^2)	
		Gross (ft^2)	Struc (ft^2)	Anc. (ft^2)	Struc (ft^2)	Anc. (ft^2)				Flat	Round		
20	2	73.055	4.067	0.000	7.576	6.374	4.116	0.303	2.288	1.411	0.80	1.00	32.942
	3	73.055	4.067	0.000	7.576	6.374	4.116	0.303	2.288	1.411	0.80	1.00	32.942
	1	73.055	4.067	0.000	7.089	6.462	4.116	0.298	2.303	1.416	0.80	1.00	32.517
19	2	73.055	4.067	0.000	7.089	6.462	4.116	0.298	2.303	1.416	0.80	1.00	32.517
	3	73.055	4.067	0.000	7.089	6.462	4.116	0.298	2.303	1.416	0.80	1.00	32.517
	1	73.056	4.067	0.000	7.089	6.462	4.116	0.298	2.303	1.416	0.80	1.00	32.517
18	2	73.055	4.067	0.000	7.089	8.478	4.116	0.325	2.231	1.392	0.80	1.00	34.661
	3	73.055	4.067	0.000	7.089	9.614	4.116	0.341	2.193	1.380	0.80	1.00	35.869
	1	73.055	4.067	0.000	7.089	9.614	4.116	0.341	2.193	1.380	0.80	1.00	35.869
17	2	73.055	4.067	0.000	7.089	9.614	4.116	0.341	2.193	1.380	0.80	1.00	35.869
	3	73.055	4.067	0.000	7.089	9.614	4.116	0.341	2.193	1.380	0.80	1.00	35.869
	1	73.055	4.067	0.000	7.089	9.614	4.116	0.341	2.193	1.380	0.80	1.00	35.869
16	2	73.055	4.067	0.000	7.089	9.614	4.116	0.341	2.193	1.380	0.80	1.00	35.869
	3	73.055	4.067	0.000	7.089	9.614	4.116	0.341	2.193	1.380	0.80	1.00	35.869
	1	73.055	4.067	0.000	7.576	9.489	4.116	0.346	2.182	1.377	0.80	1.00	36.254
15	2	73.055	4.067	0.000	7.576	9.489	4.116	0.346	2.182	1.377	0.80	1.00	36.254
	3	73.055	4.067	0.000	7.576	9.489	4.116	0.346	2.182	1.377	0.80	1.00	36.254
	1	73.055	4.067	0.000	7.089	9.614	4.116	0.341	2.193	1.380	0.80	1.00	35.869
14	2	73.055	4.067	0.000	7.089	9.614	4.116	0.341	2.193	1.380	0.80	1.00	35.869
	3	73.055	4.067	0.000	7.089	9.615	4.116	0.341	2.193	1.380	0.80	1.00	35.870
	1	73.470	4.058	0.000	7.907	9.615	4.101	0.350	2.173	1.374	0.80	1.00	36.756
13	2	73.469	4.058	0.000	7.907	9.614	4.101	0.350	2.173	1.374	0.80	1.00	36.756
	3	73.469	4.058	0.000	7.907	9.614	4.101	0.350	2.173	1.374	0.80	1.00	36.756
	1	73.469	4.058	0.000	7.907	9.614	4.101	0.350	2.173	1.374	0.80	1.00	36.756
12	2	73.469	4.058	0.000	7.907	9.614	4.101	0.350	2.173	1.374	0.80	1.00	36.756
	3	73.469	4.058	0.000	7.907	9.614	4.101	0.350	2.173	1.374	0.80	1.00	36.756
	1	73.494	4.058	0.000	7.909	9.618	4.102	0.350	2.173	1.374	0.80	1.00	36.766
11	2	73.469	4.058	0.000	7.907	9.614	4.101	0.350	2.173	1.374	0.80	1.00	36.756
	3	73.469	4.058	0.000	7.907	9.614	4.101	0.350	2.173	1.374	0.80	1.00	36.756
	1	73.469	4.058	0.000	8.391	9.489	4.101	0.354	2.161	1.370	0.80	1.00	37.139
10	2	73.469	4.058	0.000	8.391	9.489	4.101	0.354	2.161	1.370	0.80	1.00	37.139
	3	73.469	4.058	0.000	8.391	9.489	4.101	0.354	2.161	1.370	0.80	1.00	37.139
	1	73.445	4.058	0.000	7.905	9.611	4.100	0.350	2.173	1.374	0.80	1.00	36.746
9	2	73.469	4.058	0.000	7.907	9.614	4.101	0.350	2.173	1.374	0.80	1.00	36.756
	3	73.469	4.058	0.000	7.907	9.614	4.101	0.350	2.173	1.374	0.80	1.00	36.756
	1	73.469	4.058	0.000	7.907	9.614	4.101	0.350	2.173	1.374	0.80	1.00	36.756
8	2	73.469	4.058	0.000	7.907	9.614	4.101	0.350	2.173	1.374	0.80	1.00	36.756
	3	73.469	4.058	0.000	7.907	9.614	4.101	0.350	2.173	1.374	0.80	1.00	36.756
	1	73.469	4.058	0.000	7.907	9.614	4.101	0.350	2.173	1.374	0.80	1.00	36.756
7	2	73.469	4.058	0.000	7.907	9.614	4.101	0.350	2.173	1.374	0.80	1.00	36.756
	3	73.469	4.058	0.000	7.907	9.614	4.101	0.350	2.173	1.374	0.80	1.00	36.756
	1	73.469	4.058	0.000	7.907	10.812	4.101	0.366	2.136	1.363	0.80	1.00	38.037
6	2	73.469	4.058	0.000	7.907	15.022	4.101	0.423	2.020	1.336	0.80	1.00	42.665
	3	73.469	4.058	0.000	7.907	15.022	4.101	0.423	2.020	1.336	0.80	1.00	42.665
	1	73.469	4.058	0.000	7.907	14.854	4.101	0.427	2.012	1.334	0.80	1.00	43.024
5	2	73.469	4.058	0.000	8.391	14.854	4.101	0.427	2.012	1.334	0.80	1.00	43.024
	3	73.469	4.058	0.000	8.391	14.854	4.101	0.427	2.012	1.334	0.80	1.00	43.024
	1	73.469	4.058	0.000	7.907	15.022	4.101	0.423	2.020	1.336	0.80	1.00	42.665
4	2	73.469	4.058	0.000	7.907	15.022	4.101	0.423	2.020	1.336	0.80	1.00	42.665
	3	73.469	4.058	0.000	7.907	15.022	4.101	0.423	2.020	1.336	0.80	1.00	42.665
	1	73.445	4.058	0.000	7.904	15.022	4.100	0.423	2.020	1.336	0.80	1.00	42.660
3	2	73.469	4.058	0.000	7.907	15.022	4.101	0.423	2.020	1.336	0.80	1.00	42.665
	3	73.469	4.058	0.000	7.904	15.022	4.100	0.423	2.020	1.336	0.80	1.00	42.660
	1	73.445	4.058	0.000	7.904	15.022	4.100	0.423	2.020	1.336	0.80	1.00	42.660
2	2	73.469	4.058	0.000	7.907	15.022	4.101	0.423	2.020	1.336	0.80	1.00	42.665
	3	73.469	4.058	0.000	7.907	15.022	4.101	0.423	2.020	1.336	0.80	1.00	42.665
	1	73.469	4.058	0.000	7.907	15.022	4.101	0.423	2.020	1.336	0.80	1.00	42.665
1	2	73.469	4.058	0.000	7.907	15.022	4.101	0.423	2.020	1.336	0.80	1.00	42.665
	3	73.469	4.058	0.000	7.907	14.952	4.101	0.422	2.022	1.336	0.80	1.00	42.586
	1	73.469	4.058	0.000	7.907	2.940	4.101	0.259	2.412	1.457	0.80	1.00	29.607



NAME  
EV

DATE  
Dec 30 2002

FILE NO.  
0170123

CUSTOMER N.E.T.V. KXNE-TV  
PROJECT 938ft RT7  
SITE NORFOLK


PAGE F11

Section F1 : DISTRIBUTED WIND AREA DATA to EIA-222-F

Section	Pan	Elevation (ft)	Flat Area (ft^2)	Round Area (ft^2)	Drag Factor		Wind Area (ft^2)
					Flat	Round	

Bare Wind Direction = 0.0

32	1	938.00	0.000	3.449	2.00	1.20	4.139
	2	931.25	0.000	3.448	2.00	1.20	4.137
31	1	924.49	0.000	5.076	2.00	1.20	6.091
	2	914.55	0.000	5.070	2.00	1.20	6.084
	3	904.62	0.000	5.076	2.00	1.20	6.091
30	1	894.68	0.000	5.074	2.00	1.20	6.088
	2	884.74	0.000	5.074	2.00	1.20	6.088
	3	874.80	0.000	5.074	2.00	1.20	6.088
29	1	864.86	0.000	5.075	2.00	1.20	6.090
	2	854.92	0.000	5.075	2.00	1.20	6.090
	3	844.98	0.000	5.075	2.00	1.20	6.090
28	1	835.04	0.000	5.075	2.00	1.20	6.090
	2	825.10	0.000	5.075	2.00	1.20	6.090
	3	815.15	0.000	5.075	2.00	1.20	6.090
27	1	805.21	0.000	5.075	2.00	1.20	6.090
	2	795.27	0.000	6.802	2.00	1.20	8.162
	3	785.33	0.000	7.651	2.00	1.20	9.182
26	1	775.39	0.000	7.653	2.00	1.20	9.183
	2	765.45	0.000	7.649	2.00	1.20	9.179
	3	755.51	0.000	7.653	2.00	1.20	9.183
25	1	745.57	0.000	7.651	2.00	1.20	9.182
	2	735.63	0.000	7.651	2.00	1.20	9.182
	3	725.69	0.000	7.651	2.00	1.20	9.182
24	1	715.74	0.000	7.651	2.00	1.20	9.182
	2	705.80	0.000	7.651	2.00	1.20	9.182
	3	695.86	0.000	7.651	2.00	1.20	9.182
23	1	685.92	0.000	7.651	2.00	1.20	9.182
	2	675.98	0.000	7.651	2.00	1.20	9.182
	3	666.04	0.000	7.651	2.00	1.20	9.182
22	1	656.10	0.000	7.649	2.00	1.20	9.179
	2	646.16	0.000	7.651	2.00	1.20	9.182
	3	636.22	0.000	7.651	2.00	1.20	9.182
21	1	626.28	0.000	7.651	2.00	1.20	9.182
	2	616.34	0.000	7.651	2.00	1.20	9.182
	3	606.40	0.000	7.651	2.00	1.20	9.182
20	1	596.46	0.000	7.651	2.00	1.20	9.182
	2	586.52	0.000	7.651	2.00	1.20	9.182
	3	576.57	0.000	7.651	2.00	1.20	9.182
19	1	566.63	0.000	7.651	2.00	1.20	9.182
	2	556.69	0.000	7.651	2.00	1.20	9.182
	3	546.75	0.000	7.651	2.00	1.20	9.182
18	1	536.81	0.000	7.651	2.00	1.20	9.182
	2	526.87	0.000	7.651	2.00	1.20	9.182
	3	516.93	0.000	7.651	2.00	1.20	9.182
17	1	506.99	0.000	7.651	2.00	1.20	9.182
	2	497.05	0.000	7.651	2.00	1.20	9.182
	3	487.11	0.000	7.651	2.00	1.20	9.182
16	1	477.17	0.000	7.651	2.00	1.20	9.182
	2	467.22	0.000	7.651	2.00	1.20	9.182
	3	457.28	0.000	7.651	2.00	1.20	9.182
15	1	447.34	0.000	7.651	2.00	1.20	9.182
	2	437.40	0.000	7.651	2.00	1.20	9.182
	3	427.46	0.000	7.651	2.00	1.20	9.182
14	1	417.52	0.000	7.651	2.00	1.20	9.182
	2	407.58	0.000	7.651	2.00	1.20	9.182
	3	397.64	0.000	7.651	2.00	1.20	9.182
13	1	387.70	0.000	7.651	2.00	1.20	9.182
	2	377.76	0.000	7.651	2.00	1.20	9.182
	3	367.82	0.000	7.651	2.00	1.20	9.182
12	1	357.87	0.000	7.654	2.00	1.20	9.185
	2	347.93	0.000	7.651	2.00	1.20	9.182
	3	337.99	0.000	7.651	2.00	1.20	9.182
11	1	328.05	0.000	7.651	2.00	1.20	9.182
	2	318.11	0.000	7.651	2.00	1.20	9.182

 <b>RADIAN</b>	<b>NAME</b> EV	<b>DATE</b> Dec 30 2002	<b>FILE NO.</b> 0170123
<b>CUSTOMER</b> N.E.T.V. KXNE-TV <b>PROJECT</b> 938ft RT7 <b>SITE</b> NORFOLK			<b>PAGE</b> F12

**Section F1 : DISTRIBUTED WIND AREA DATA to EIA-222-F (cont.)**

Section	Pan	Elevation (ft)	Flat Area (ft^2)	Round Area (ft^2)	Drag Factor		Wind Area (ft^2)
					Flat	Round	
10	3	308.17	0.000	7.651	2.00	1.20	9.182
	1	298.23	0.000	7.649	2.00	1.20	9.179
	2	288.29	0.000	7.651	2.00	1.20	9.182
9	3	278.35	0.000	7.651	2.00	1.20	9.182
	1	268.41	0.000	7.651	2.00	1.20	9.182
	2	258.46	0.000	7.651	2.00	1.20	9.182
8	3	248.52	0.000	7.651	2.00	1.20	9.182
	1	238.58	0.000	7.651	2.00	1.20	9.182
	2	228.64	0.000	7.651	2.00	1.20	9.182
7	3	218.70	0.000	7.651	2.00	1.20	9.182
	1	208.76	0.000	7.651	2.00	1.20	9.182
	2	198.82	0.000	7.651	2.00	1.20	9.182
6	3	188.88	0.000	7.651	2.00	1.20	9.182
	1	178.94	0.000	7.651	2.00	1.20	9.182
	2	169.00	0.000	7.651	2.00	1.20	9.182
5	3	159.06	0.000	7.651	2.00	1.20	9.182
	1	149.11	0.000	7.651	2.00	1.20	9.182
	2	139.17	0.000	7.651	2.00	1.20	9.182
4	3	129.23	0.000	7.651	2.00	1.20	9.182
	1	119.29	0.000	7.651	2.00	1.20	9.182
	2	109.35	0.000	7.651	2.00	1.20	9.182
3	3	99.41	0.000	7.651	2.00	1.20	9.182
	1	89.47	0.000	7.651	2.00	1.20	9.182
	2	79.53	0.000	7.651	2.00	1.20	9.182
2	3	69.59	0.000	7.651	2.00	1.20	9.182
	1	59.65	0.000	7.651	2.00	1.20	9.182
	2	49.70	0.000	7.651	2.00	1.20	9.182
1	3	39.76	0.000	7.651	2.00	1.20	9.182
	1	29.82	0.000	7.651	2.00	1.20	9.182
	2	19.88	0.000	7.606	2.00	1.20	9.127
	3	9.94	0.000	0.000	2.00	1.20	0.000

Iced Wind Direction = 0.0

32	1	938.00	0.000	4.012	2.00	1.20	4.815
	2	931.25	0.000	4.011	2.00	1.20	4.813
31	1	924.49	0.000	5.904	2.00	1.20	7.085
	2	914.55	0.000	5.897	2.00	1.20	7.077
30	3	904.62	0.000	5.904	2.00	1.20	7.085
	1	894.68	0.000	5.902	2.00	1.20	7.082
	2	884.74	0.000	5.902	2.00	1.20	7.082
29	3	874.80	0.000	5.902	2.00	1.20	7.082
	1	864.86	0.000	5.903	2.00	1.20	7.084
	2	854.92	0.000	5.903	2.00	1.20	7.084
28	3	844.98	0.000	5.903	2.00	1.20	7.084
	1	835.04	0.000	5.903	2.00	1.20	7.084
	2	825.10	0.000	5.903	2.00	1.20	7.084
27	3	815.15	0.000	5.903	2.00	1.20	7.084
	1	805.21	0.000	5.903	2.00	1.20	7.084
	2	795.27	0.000	8.186	2.00	1.20	9.823
26	3	785.33	0.000	9.308	2.00	1.20	11.170
	1	775.39	0.000	9.310	2.00	1.20	11.172
	2	765.45	0.000	9.305	2.00	1.20	11.166
25	3	755.51	0.000	9.310	2.00	1.20	11.172
	1	745.57	0.000	9.308	2.00	1.20	11.170
	2	735.63	0.000	9.308	2.00	1.20	11.170
24	3	725.69	0.000	9.308	2.00	1.20	11.170
	1	715.74	0.000	9.308	2.00	1.20	11.170
	2	705.80	0.000	9.308	2.00	1.20	11.170
23	3	695.86	0.000	9.308	2.00	1.20	11.170
	1	685.92	0.000	9.308	2.00	1.20	11.170
	2	675.98	0.000	9.308	2.00	1.20	11.170
22	3	666.04	0.000	9.308	2.00	1.20	11.170
	1	656.10	0.000	9.305	2.00	1.20	11.166
	2	646.16	0.000	9.308	2.00	1.20	11.170
21	3	636.22	0.000	9.308	2.00	1.20	11.170
	1	626.28	0.000	9.308	2.00	1.20	11.170



NAME  
EV

DATE  
Dec 30 2002

FILE NO.  
0170123

CUSTOMER N.E.T.V. KXNE-TV  
PROJECT 938ft RT7  
SITE NORFOLK

PAGE F13

Section F1 : DISTRIBUTED WIND AREA DATA to EIA-222-F (cont.)

Section	Pan	Elevation (ft)	Flat Area (ft^2)	Round Area (ft^2)	Drag Factor Flat	Round	Wind Area (ft^2)
	2	616.34	0.000	9.308	2.00	1.20	11.170
	3	606.40	0.000	9.308	2.00	1.20	11.170
20	1	596.46	0.000	9.308	2.00	1.20	11.170
	2	586.52	0.000	9.308	2.00	1.20	11.170
	3	576.57	0.000	9.308	2.00	1.20	11.170
19	1	566.63	0.000	9.308	2.00	1.20	11.170
	2	556.69	0.000	9.308	2.00	1.20	11.170
	3	546.75	0.000	9.308	2.00	1.20	11.170
18	1	536.81	0.000	9.308	2.00	1.20	11.170
	2	526.87	0.000	9.308	2.00	1.20	11.170
	3	516.93	0.000	9.308	2.00	1.20	11.170
17	1	506.99	0.000	9.308	2.00	1.20	11.170
	2	497.05	0.000	9.308	2.00	1.20	11.170
	3	487.11	0.000	9.308	2.00	1.20	11.170
16	1	477.17	0.000	9.308	2.00	1.20	11.170
	2	467.22	0.000	9.308	2.00	1.20	11.170
	3	457.28	0.000	9.308	2.00	1.20	11.170
15	1	447.34	0.000	9.308	2.00	1.20	11.170
	2	437.40	0.000	9.308	2.00	1.20	11.170
	3	427.46	0.000	9.308	2.00	1.20	11.170
14	1	417.52	0.000	9.308	2.00	1.20	11.170
	2	407.58	0.000	9.308	2.00	1.20	11.170
	3	397.64	0.000	9.308	2.00	1.20	11.170
13	1	387.70	0.000	9.308	2.00	1.20	11.170
	2	377.76	0.000	9.308	2.00	1.20	11.170
	3	367.82	0.000	9.308	2.00	1.20	11.170
12	1	357.87	0.000	9.311	2.00	1.20	11.174
	2	347.93	0.000	9.308	2.00	1.20	11.170
	3	337.99	0.000	9.308	2.00	1.20	11.170
11	1	328.05	0.000	9.308	2.00	1.20	11.170
	2	318.11	0.000	9.308	2.00	1.20	11.170
	3	308.17	0.000	9.308	2.00	1.20	11.170
10	1	298.23	0.000	9.305	2.00	1.20	11.166
	2	288.29	0.000	9.308	2.00	1.20	11.170
	3	278.35	0.000	9.308	2.00	1.20	11.170
9	1	268.41	0.000	9.308	2.00	1.20	11.170
	2	258.46	0.000	9.308	2.00	1.20	11.170
	3	248.52	0.000	9.308	2.00	1.20	11.170
8	1	238.58	0.000	9.308	2.00	1.20	11.170
	2	228.64	0.000	9.308	2.00	1.20	11.170
	3	218.70	0.000	9.308	2.00	1.20	11.170
7	1	208.76	0.000	9.308	2.00	1.20	11.170
	2	198.82	0.000	9.308	2.00	1.20	11.170
	3	188.88	0.000	9.308	2.00	1.20	11.170
6	1	178.94	0.000	9.308	2.00	1.20	11.170
	2	169.00	0.000	9.308	2.00	1.20	11.170
	3	159.06	0.000	9.308	2.00	1.20	11.170
5	1	149.11	0.000	9.308	2.00	1.20	11.170
	2	139.17	0.000	9.308	2.00	1.20	11.170
	3	129.23	0.000	9.308	2.00	1.20	11.170
4	1	119.29	0.000	9.308	2.00	1.20	11.170
	2	109.35	0.000	9.308	2.00	1.20	11.170
	3	99.41	0.000	9.308	2.00	1.20	11.170
3	1	89.47	0.000	9.308	2.00	1.20	11.170
	2	79.53	0.000	9.308	2.00	1.20	11.170
	3	69.59	0.000	9.308	2.00	1.20	11.170
2	1	59.65	0.000	9.308	2.00	1.20	11.170
	2	49.70	0.000	9.308	2.00	1.20	11.170
	3	39.76	0.000	9.308	2.00	1.20	11.170
1	1	29.82	0.000	9.308	2.00	1.20	11.170
	2	19.88	0.000	9.253	2.00	1.20	11.104
	3	9.94	0.000	0.000	2.00	1.20	0.000



**NAME**  
EV

**DATE**  
Dec 30 2002

**FILE NO.**  
0170123

**CUSTOMER** N.E.T.V. KXNE-TV  
**PROJECT** 938ft RT7  
**SITE** NORFOLK

**PAGE** G1

**Section G : ANTENNA DATA**

No.	Elev. (ft)	Type	Azi.	Radius (ft)	Ori.	Ant Qty	Mount Type	Mount Radius (ft)	Mount Azi.	Mount Att. Azi	Mount Elev. (ft)
1	712.00	DB224	0.0	5.50	0.0	1	(None)	0.00	0.0	0.0	0.00
2	552.00	DB212-4	0.0	3.83	0.0	1	(None)	0.00	0.0	0.0	0.00
3	522.00	DB212-6	0.0	3.83	0.0	1	(None)	0.00	0.0	0.0	0.00
4	432.00	PARAFLECTOR	0.0	5.50	0.0	1	(None)	0.00	0.0	0.0	0.00
5	252.00	SRL-210C-4	0.0	5.50	0.0	1	(None)	0.00	0.0	0.0	0.00
6	232.00	GP6	0.0	5.50	0.0	1	(None)	0.00	0.0	0.0	0.00
7	189.00	SRL-307	0.0	5.50	0.0	1	(None)	0.00	0.0	0.0	0.00
8	180.00	PARAFLECTOR	0.0	5.50	0.0	1	(None)	0.00	0.0	0.0	0.00
9	172.00	PARAFLECTOR	0.0	5.50	0.0	1	(None)	0.00	0.0	0.0	0.00
10	137.00	SRL-307	0.0	5.50	120.0	1	(None)	0.00	0.0	0.0	0.00
11	137.00	PARAFLECTOR	0.0	5.50	0.0	1	(None)	0.00	0.0	0.0	0.00

TOP ANTENNA

Description	Height (ft)	Diameter (ft)	Area Bare (ft^2)	Area Iced (ft^2)	Bare Weight (Kips)	Iced Weight (Kips)
ATW33	73.98	0.997	64.992	69.998	12.50	14.00



**NAME**  
EV

**DATE**  
Dec 30 2002

**FILE NO.**  
0170123

**CUSTOMER** N.E.T.V. KXNE-TV  
**PROJECT** 938ft RT7  
**SITE** NORFOLK

**PAGE H1**


**Section H : TRANSMISSION LINE DATA**

Transmission Lines Position

No.	Bot El (ft)	Top El (ft)	Desc.	No.	Azim.	Radius (ft)	Orient.	Dist. (in)	Vert.	Part of Face	Shielded
1	10.00	944.00	RC6.125	1	120.00	3.00	120.00	7.6575	Yes	No	No
2	10.00	791.99	RC3.125	1	240.00	3.00	240.00	3.8898	No	No	No
3	10.00	892.98	HJ11-50	1	60.00	2.16	90.00	7.6575	No	Yes-Inside	No
4	4.00	938.00	SR	1	180.00	1.98	180.00	7.6575	No	Yes-Inside	No
5	552.00	711.98	HJ8-50B	1	60.00	1.89	60.00	7.6575	No	Yes-Inside	No
6	10.00	551.97	HJ8-50B	2	60.00	1.89	60.00	7.6575	No	Yes-Inside	No
7	10.00	200.00	RC6.125	2	180.00	2.89	230.00	7.6575	No	Yes-Inside	No
8	200.00	550.00	RC6.125	1	180.00	2.89	230.00	7.6575	No	Yes-Inside	No
9	0.00	938.00	RC2.50-Cnd	1	300.00	2.52	260.00	3.5945	No	Yes-Inside	No

Transmission Lines Details

No.	Desc.	Width (in)	Depth (in)	Unit Mass (lb/ft)
1	RC6.125	6.13	6.13	7.26
2	RC3.125	3.11	3.11	3.00
3	HJ11-50	4.02	4.02	2.50
4	SR	0.75	0.75	7.26
5	HJ8-50B	3.02	3.02	1.75
6	HJ8-50B	3.02	3.02	1.75
7	RC6.125	6.13	6.13	7.26
8	RC6.125	6.13	6.13	7.26
9	RC2.50-Cnd	2.87	2.87	5.59

 <b>RADIAN</b>	<b>NAME</b> EV	<b>DATE</b> Dec 17 2002	<b>FILE NO.</b> 0170123
<b>CUSTOMER</b> N.E.T.V. KXNE-TV			<b>PAGE</b> 0
<b>PROJECT</b> 938ft RT7			
<b>SITE</b> NORFOLK			

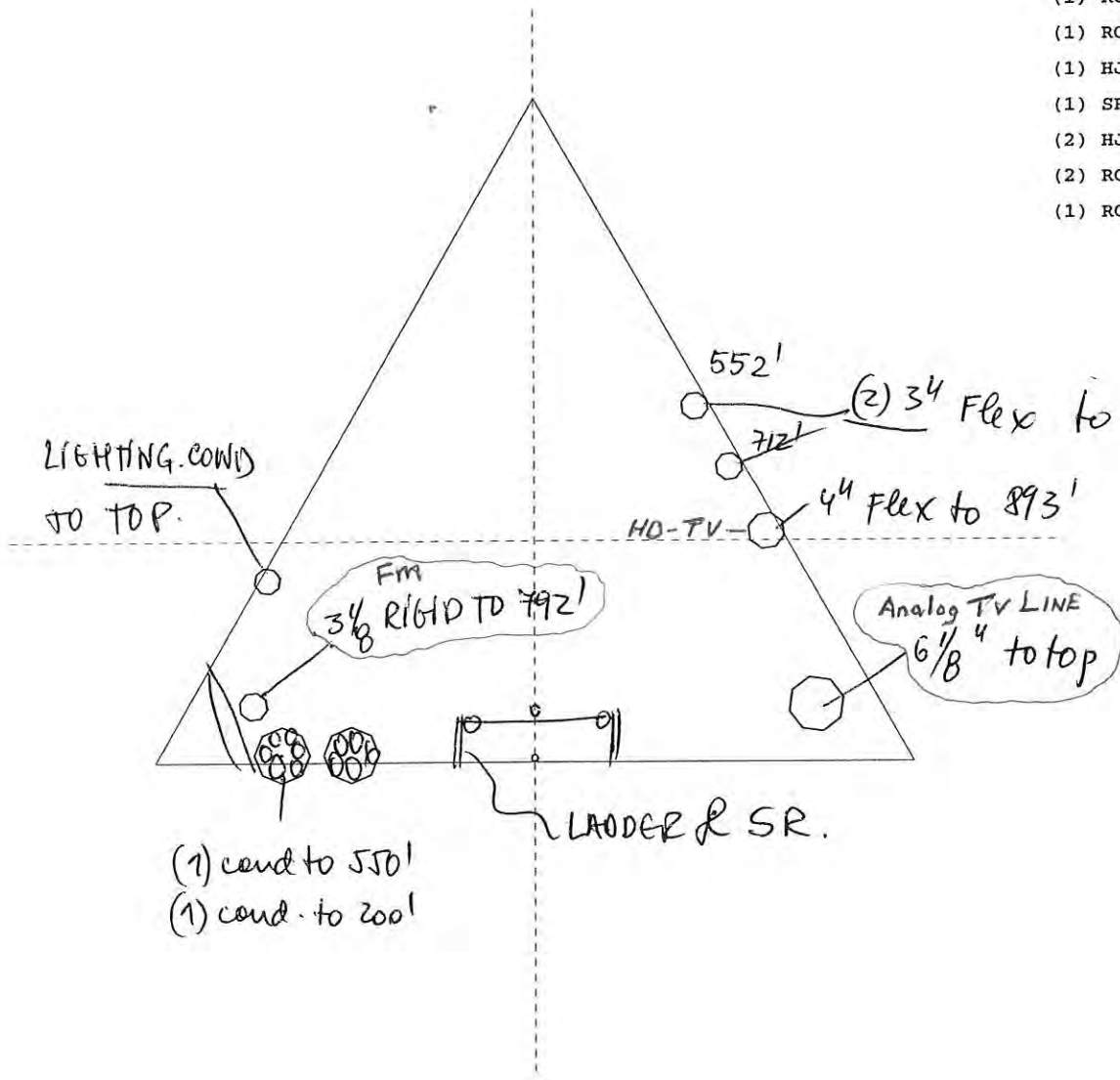
**TX LINES LAYOUT**

Elevation: 30.00 (ft)

Face Width: 6.99 (ft)

9 Lines


- (1) RC6.125
- (1) RC3.125
- (1) HJ11-50
- (1) SR
- (2) HJ8-50B
- (2) RC6.125
- (1) RC2.50-Cnd



(1) cond to 550'  
(1) cond. to 200'

LADDER & SR.



 <b>RADIAN</b>	<b>NAME</b> EV	<b>DATE</b> Dec 30 2002	<b>FILE NO.</b> 0170123
<b>CUSTOMER</b> N.E.T.V. KXNE-TV <b>PROJECT</b> 938ft RT7 <b>SITE</b> NORFOLK			<b>PAGE J1</b>


Section J : LADDER DATA

Ladder Position

No.	Bot El (ft)	Top El (ft)	Width (in)	Height (in)	Az.	Radius (ft)	Orient.	Vertical	Part of Face
1	5.00	938.00	17.72	11.81	180.00	2.02	180.00	False	True

Ladder Details

No.	Rung Desc.	Rail Desc.
1	SR 0 3/4	SR 1

 <b>RADIAN</b>	<b>NAME</b> EV	<b>DATE</b> Dec 30 2002	<b>FILE NO.</b> 0170123
<b>CUSTOMER</b> N.E.T.V. KXNE-TV			<b>PAGE</b> K1
<b>PROJECT</b> 938ft RT7			
<b>SITE</b> NORFOLK			

**Section K : MOUNTING ASSEMBLIES DATA**

Component	Size	Elev. (ft)	Length (ft)	Radius (ft)	Ori.	Azi.	Vert. Ori.
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Iceguard Elev.:442.00 (ft) Radius:3.97 (ft) Orient.:0.0 Azimuth:0.0

1	L3x3x1/4	0.00	6.10	3.05	0.0	0.0	0.0
2	L3x3x1/4	0.00	6.10	3.05	0.0	0.0	0.0
3	L3x3x1/4	0.00	7.02	3.05	0.0	0.0	0.0
4	L3x3x1/4	0.00	7.02	3.05	0.0	0.0	0.0
5	L3x3x1/4	0.00	8.10	0.00	0.0	90.0	0.0
6	L3x3x1/4	0.00	8.86	3.05	0.0	90.0	0.0
7	L3x3x1/4	0.00	8.10	3.05	0.0	90.0	0.0
8	L3x3x1/4	0.00	8.89	6.10	0.0	90.0	0.0
9	L6x3 1/2x5/16	0.00	8.89	6.10	0.0	90.0	0.0
10	L2 1/2x2 1/2x3/16	-2.46	7.35	3.28	35.0	30.0	45.0
11	L2 1/2x2 1/2x3/16	-2.46	7.35	3.28	325.0	330.0	45.0
12	L2 1/2x2 1/2x3/16	-2.46	6.20	0.00	0.0	0.0	90.0
13	L2 1/2x2 1/2x3/16	-2.46	6.20	0.00	0.0	0.0	90.0

Iceguard Elev.:190.00 (ft) Radius:3.97 (ft) Orient.:0.0 Azimuth:0.0

1	L3x3x1/4	0.00	6.10	3.05	0.0	0.0	0.0
2	L3x3x1/4	0.00	6.10	3.05	0.0	0.0	0.0
3	L3x3x1/4	0.00	7.02	3.05	0.0	0.0	0.0
4	L3x3x1/4	0.00	7.02	3.05	0.0	0.0	0.0
5	L3x3x1/4	0.00	8.10	0.00	0.0	90.0	0.0
6	L3x3x1/4	0.00	8.86	3.05	0.0	90.0	0.0
7	L3x3x1/4	0.00	8.10	3.05	0.0	90.0	0.0
8	L3x3x1/4	0.00	8.89	6.10	0.0	90.0	0.0
9	L6x3 1/2x5/16	0.00	8.89	6.10	0.0	90.0	0.0
10	L2 1/2x2 1/2x3/16	-2.46	7.35	3.28	35.0	30.0	45.0
11	L2 1/2x2 1/2x3/16	-2.46	7.35	3.28	325.0	330.0	45.0
12	L2 1/2x2 1/2x3/16	-2.46	6.20	0.00	0.0	0.0	90.0
13	L2 1/2x2 1/2x3/16	-2.46	6.20	0.00	0.0	0.0	90.0

Iceguard Elev.:182.00 (ft) Radius:3.97 (ft) Orient.:0.0 Azimuth:0.0


1	L3x3x1/4	0.00	6.10	3.05	0.0	0.0	0.0
2	L3x3x1/4	0.00	6.10	3.05	0.0	0.0	0.0
3	L3x3x1/4	0.00	7.02	3.05	0.0	0.0	0.0
4	L3x3x1/4	0.00	7.02	3.05	0.0	0.0	0.0
5	L3x3x1/4	0.00	8.10	0.00	0.0	90.0	0.0
6	L3x3x1/4	0.00	8.86	3.05	0.0	90.0	0.0
7	L3x3x1/4	0.00	8.10	3.05	0.0	90.0	0.0
8	L3x3x1/4	0.00	8.89	6.10	0.0	90.0	0.0
9	L6x3 1/2x5/16	0.00	8.89	6.10	0.0	90.0	0.0
10	L2 1/2x2 1/2x3/16	-2.46	7.35	3.28	35.0	30.0	45.0
11	L2 1/2x2 1/2x3/16	-2.46	7.35	3.28	325.0	330.0	45.0
12	L2 1/2x2 1/2x3/16	-2.46	6.20	0.00	0.0	0.0	90.0
13	L2 1/2x2 1/2x3/16	-2.46	6.20	0.00	0.0	0.0	90.0

Iceguard Elev.:147.00 (ft) Radius:3.97 (ft) Orient.:0.0 Azimuth:0.0

1	L3x3x1/4	0.00	6.10	3.05	0.0	0.0	0.0
2	L3x3x1/4	0.00	6.10	3.05	0.0	0.0	0.0
3	L3x3x1/4	0.00	7.02	3.05	0.0	0.0	0.0
4	L3x3x1/4	0.00	7.02	3.05	0.0	0.0	0.0
5	L3x3x1/4	0.00	8.10	0.00	0.0	90.0	0.0
6	L3x3x1/4	0.00	8.86	3.05	0.0	90.0	0.0
7	L3x3x1/4	0.00	8.10	3.05	0.0	90.0	0.0
8	L3x3x1/4	0.00	8.89	6.10	0.0	90.0	0.0
9	L6x3 1/2x5/16	0.00	8.89	6.10	0.0	90.0	0.0
10	L2 1/2x2 1/2x3/16	-2.46	7.35	3.28	35.0	30.0	45.0
11	L2 1/2x2 1/2x3/16	-2.46	7.35	3.28	325.0	330.0	45.0
12	L2 1/2x2 1/2x3/16	-2.46	6.20	0.00	0.0	0.0	90.0
13	L2 1/2x2 1/2x3/16	-2.46	6.20	0.00	0.0	0.0	90.0


Iceguard Elev.:242.00 (ft) Radius:3.97 (ft) Orient.:0.0 Azimuth:0.0

1	L3x3x1/4	0.00	6.10	3.05	0.0	0.0	0.0
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 <b>RADIAN</b>	<b>NAME</b> EV	<b>DATE</b> Dec 30 2002	<b>FILE NO.</b> 0170123
<b>CUSTOMER</b> N.E.T.V. KXNE-TV <b>PROJECT</b> 938ft RT7 <b>SITE</b> NORFOLK			<b>PAGE K2</b>

Section K : MOUNTING ASSEMBLIES DATA (cont.)

Component	Size	Elev. (ft)	Length (ft)	Radius (ft)	Ori.	Azi.	Vert. Ori.
2	L3x3x1/4	0.00	6.10	3.05	0.0	0.0	0.0
3	L3x3x1/4	0.00	7.02	3.05	0.0	0.0	0.0
4	L3x3x1/4	0.00	7.02	3.05	0.0	0.0	0.0
5	L3x3x1/4	0.00	8.10	0.00	0.0	90.0	0.0
6	L3x3x1/4	0.00	8.86	3.05	0.0	90.0	0.0
7	L3x3x1/4	0.00	8.10	3.05	0.0	90.0	0.0
8	L3x3x1/4	0.00	8.89	6.10	0.0	90.0	0.0
9	L6x3 1/2x5/16	0.00	8.89	6.10	0.0	90.0	0.0
10	L2 1/2x2 1/2x3/16	-2.46	7.35	3.28	35.0	30.0	45.0
11	L2 1/2x2 1/2x3/16	-2.46	7.35	3.28	325.0	330.0	45.0
12	L2 1/2x2 1/2x3/16	-2.46	6.20	0.00	0.0	0.0	90.0
13	L2 1/2x2 1/2x3/16	-2.46	6.20	0.00	0.0	0.0	90.0

 <b>RADIAN</b>	<b>NAME</b> EV	<b>DATE</b> Dec 30 2002	<b>FILE NO.</b> 0170123
<b>CUSTOMER</b> N.E.T.V. KXNE-TV <b>PROJECT</b> 938ft RT7 <b>SITE</b> NORFOLK			<b>PAGE M1</b>

**Section M : POINT LOAD DATA**

No.	Description	Elev. (ft)	Azim.	Radius (ft)		Area (ft <sup>2</sup> )		Weight (Kips)		Ant ?	Depth/ Width	Ant. Azi.
				Bare	Iced	Bare	Iced	Bare	Iced			
1	ALP32M3	893.00	300.0	5.00	103.99	134.00	1.00	1.20	Yes	0.000	0.0	
2	DCRC-10	792.00	60.0	5.00	127.99	150.00	2.00	2.40	Yes	0.000	0.0	



NAME  
EV

DATE  
Dec 30 2002

FILE NO.  
0170123

CUSTOMER N.E.T.V. KXNE-TV

PROJECT 938ft RT7

SITE NORFOLK

PAGE 01

Section 0 : GUY TENSIONS

Guy Level	Elevation (ft)	Guy Type	Guy Diameter (in.)	Initial Tension (Kips)	Breaking Strength (Kips)	Maximum Tension (Kips)	Safety Factor	Admissible Safety Factor
1	162.08	UH	0.8750	14.00	105.80	38.80M	2.73	2.312
2	311.19	UH	0.8750	10.58	105.80	42.00M	2.52	2.312
3	460.30	UH	1.0000	14.02	140.20	58.40M	2.40	2.312
4	619.36	UH	1.0000	13.00	140.20	59.30M	2.36	2.312
5	788.35	UH	1.2500	21.88	218.80	91.80M	2.38	2.312
6	938.00	UH	1.0625	15.50	155.20	65.60M	2.37	2.312



NAME  
EV

DATE  
Dec 30 2002

FILE NO.  
0170123

CUSTOMER N.E.T.V. KXNE-TV

PROJECT 938ft RT7

SITE NORFOLK

PAGE N 1

Section N : MEMBER CAPACITIES AND ASSESSMENT

Section Descript.	Pnl	Member/Description	Grade	Bolts		End Dist. (in)	Edge Dist. (in)	Double Angle		Length Conn. Len (ft)	Kl/z	Capacities (Kips)				Maximum Load (Kips)		Ratio	
				No.	Size (in)			Spacing (in)	Stitch Bolts			Tension	Block Shear	Bolt Bearing (S or T)	Bolt	Compress.	Tension		
32	All	Leg SR 3	A572 gr.50	N/A	N/A	N/A	N/A			6.757 6.757	54.1	188.6	238.7	N/A	N/A	N/A	66.9	0.0	0.354C
		Diag. SR 1 1/8(T)	A572 gr.50	2	3/4	N/A	N/A			9.725 8.735	312.9	1.7	33.5	N/A	N/A	N/A	1.7	12.5	0.372T
		Horiz. (2)L2 1/2x2 1/2x1/4	300W	2	5/8	1.094	1.024	0.625	1	6.995 6.275	97.8	38.9	56.1	33.8	55.1	41.48	9.0	9.0	0.265T
		Face Red. 1 L2x2x1/4	300W	2	5/8	1.094	1.102			3.497 3.497	113.8	12.2	21.1	17.6	27.5	20.78	0.8	0.8	0.069C
		Leg SR 3	A572 gr.50	N/A	N/A	N/A	N/A			9.943 9.943	79.5	152.0	238.7	N/A	N/A	N/A	100.5	38.3	0.661C
31	All	Diag. SR 0 7/8(T)	A572 gr.50	2	3/4	N/A	N/A			12.157 11.021	488.7	0.4	20.3	N/A	N/A	N/A	0.4	12.9	0.634T
		Horiz. (2)L2 1/2x2 1/2x1/4	300W	2	5/8	1.094	1.024	0.625	1	6.995 6.275	97.8	38.9	56.1	33.8	55.1	41.48	7.4	7.4	0.219T
		Face Red. 1 L2x2x1/4	300W	2	5/8	1.094	1.102			3.497 3.497	113.8	12.2	21.1	17.6	27.5	20.78	1.2	1.2	0.096C
		Leg SR 3	A572 gr.50	N/A	N/A	N/A	N/A			9.939 9.939	79.5	152.1	238.7	N/A	N/A	N/A	102.9	40.5	0.677C
		Diag. SR 0 7/8(T)	A572 gr.50	2	3/4	N/A	N/A			12.153 11.018	488.6	0.4	20.3	N/A	N/A	N/A	0.4	10.2	0.503T
30	All	Horiz. (2)L2 1/2x2 1/2x1/4	300W	2	5/8	1.094	1.024	0.625	1	6.995 6.275	97.8	38.9	56.1	33.8	55.1	41.48	5.9	5.9	0.174T
		Face Red. 1 L2x2x1/4	300W	2	5/8	1.094	1.102			3.497 3.497	113.8	12.2	21.1	17.6	27.5	20.78	1.5	1.5	0.127C
		Leg SR 3	A572 gr.50	N/A	N/A	N/A	N/A			9.941 9.941	79.5	152.0	238.7	N/A	N/A	N/A	91.3	32.6	0.600C
		Diag. SR 0 7/8(T)	A572 gr.50	2	3/4	N/A	N/A			12.155 11.019	488.7	0.4	20.3	N/A	N/A	N/A	0.4	14.2	0.701T
		Horiz. (2)L2 1/2x2 1/2x1/4	300W	2	5/8	1.094	1.024	0.625	1	6.995 6.275	97.8	38.9	56.1	33.8	55.1	41.48	8.2	8.2	0.242T
29	All	Face Red. 1 L2x2x1/4	300W	2	5/8	1.094	1.102			3.497 3.497	113.8	12.2	21.1	17.6	27.5	20.78	1.4	1.4	0.112C
		Leg SR 3	A572 gr.50	N/A	N/A	N/A	N/A			9.941 9.941	79.5	152.0	238.7	N/A	N/A	N/A	67.7	0.7	0.445C
		Diag. SR 0 7/8(T)	A572 gr.50	2	3/4	N/A	N/A			12.155 11.019	488.7	0.4	20.3	N/A	N/A	N/A	0.4	18.6	0.554T
		Horiz. (2)L2 1/2x2 1/2x1/4	300W	2	5/8	1.094	1.024	0.625	1	6.995 6.275	97.8	38.9	56.1	33.8	55.1	41.48	10.7	10.7	0.315T
		Face Red. 1 L2x2x1/4	300W	2	5/8	1.094	1.102			3.497 3.497	113.8	12.2	21.1	17.6	27.5	20.78	0.9	0.9	0.078C
28	All	Leg SR 3	A572 gr.50	N/A	N/A	N/A	N/A			9.941 9.941	79.5	152.0	238.7	N/A	N/A	N/A	109.7	35.8	0.722C
		Diag. SR 1 1/8(T)	A572 gr.50	2	7/8	N/A	N/A			12.155 10.958	385.2	1.1	33.5	N/A	N/A	N/A	1.1	18.6	0.554T
		Horiz. (2)L2 1/2x2 1/2x1/4	300W	2	5/8	1.094	1.024	0.625	1	6.995 6.275	97.8	38.9	56.1	33.8	55.1	41.48	10.7	10.7	0.315T
		Face Red. 1 L2x2x1/4	300W	2	5/8	1.094	1.102			3.497 3.497	113.8	12.2	21.1	17.6	27.5	20.78	0.9	0.9	0.078C
		Leg SR 3	A572 gr.50	N/A	N/A	N/A	N/A			9.941 9.941	79.5	152.0	238.7	N/A	N/A	N/A	109.7	35.8	0.722C



NAME  
EV

DATE  
Dec 30 2002

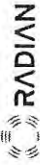
FILE NO.  
0170123

CUSTOMER N.E.T.V. KXNE-TV  
PROJECT 938ft RT7  
SITE NORFOLK

PAGE N 2

Section N : MEMBER CAPACITIES AND ASSESSMENT (cont.)

Section Descript.	Pnl	Member/Description	Grade	Bolts		End Dist. (in)	Edge Dist. (in)	Double Angle		Length Conn. Len (ft)	Kt/r	Capacities (Kips)				Maximum Load (Kips)		Ratio	
				No.	Size (in)			Spacing (in)	Stitch Bolts			Compress.	Tension	Block Shear	Bolt Bearing	Bolt (S or T)	Compress.		Tension
26	All	Diag. SR 1 1/8(T)	A572 gr.50	2	7/8	N/A	N/A			12.155 10.958	385.2	1.1	33.5	N/A	N/A	40.6S	1.1	29.7	0.886T
		Horiz. (2)L2 1/2x2 1/2x1/4	300W	2	5/8	1.094	1.024	0.625	1	6.995 6.275	97.8	38.9	56.1	33.8	55.1	41.4S	17.1	17.1	0.505T
		Face Red. 1 L2x2x1/4	300W	2	5/8	1.094	1.102			3.497 3.497	113.8	12.2	21.1	17.6	27.5	20.7S	1.4	1.4	0.113C
		Leg SR 3	A572 gr.50	N/A	N/A	N/A	N/A	N/A		9.943 9.943	79.5	152.0	238.7	N/A	N/A	N/A	118.1	0.0	0.777C
		Diag. SR 1 1/8(T)	A572 gr.50	2	7/8	N/A	N/A	N/A		12.157 10.960	385.3	1.1	33.5	N/A	N/A	40.6S	1.1	15.8	0.471T
		Horiz. (2)L2 1/2x2 1/2x1/4	300W	2	5/8	1.094	1.024	0.625	1	6.995 6.275	97.8	38.9	56.1	33.8	55.1	41.4S	9.1	9.1	0.269T
25	All	Face Red. 1 L2x2x1/4	300W	2	5/8	1.094	1.102			3.497 3.497	113.8	12.2	21.1	17.6	27.5	20.7S	1.6	1.6	0.134C
		Leg SR 3	A572 gr.50	N/A	N/A	N/A	N/A		9.941 9.941	79.5	152.0	238.7	N/A	N/A	N/A	140.4	3.0	0.923C	
		Diag. SR 0 7/8(T)	A572 gr.50	2	5/8	N/A	N/A	N/A		12.155 11.051	490.0	0.4	20.3	N/A	N/A	20.7S	0.4	9.9	0.488T
		Horiz. (2)L2 1/2x2 1/2x1/4	300W	2	5/8	1.094	1.024	0.625	1	6.995 6.275	97.8	38.9	56.1	33.8	55.1	41.4S	5.7	5.7	0.168T
		Face Red. 1 L2x2x1/4	300W	2	5/8	1.094	1.102			3.497 3.497	113.8	12.2	21.1	17.6	27.5	20.7S	1.9	1.9	0.154C
		Leg SR 3	A572 gr.50	N/A	N/A	N/A	N/A	N/A		9.941 9.941	79.5	152.0	238.7	N/A	N/A	N/A	142.7	3.2	0.939C
24	All	Diag. SR 0 7/8(T)	A572 gr.50	2	5/8	N/A	N/A			12.155 11.051	490.0	0.4	20.3	N/A	N/A	20.7S	0.4	6.4	0.315T
		Horiz. (2)L2 1/2x2 1/2x1/4	300W	2	5/8	1.094	1.024	0.625	1	6.995 6.275	97.8	38.9	56.1	33.8	55.1	41.4S	3.7	3.7	0.109T
		Face Red. 1 L2x2x1/4	300W	2	5/8	1.094	1.102			3.497 3.497	113.8	12.2	21.1	17.6	27.5	20.7S	2.1	2.1	0.175C
		Leg SR 3	A572 gr.50	N/A	N/A	N/A	N/A	N/A		9.941 9.941	79.5	152.0	238.7	N/A	N/A	N/A	139.0	0.0	0.915C
		Diag. SR 0 7/8(T)	A572 gr.50	2	5/8	N/A	N/A	N/A		12.155 11.051	490.0	0.4	20.3	N/A	N/A	20.7S	0.4	11.8	0.583T
		Horiz. (2)L2 1/2x2 1/2x1/4	300W	2	5/8	1.094	1.024	0.625	1	6.995 6.275	97.8	38.9	56.1	33.8	55.1	41.4S	6.8	6.8	0.201T
23	All	Face Red. 1 L2x2x1/4	300W	2	5/8	1.094	1.102			3.497 3.497	113.8	12.2	21.1	17.6	27.5	20.7S	2.1	2.1	0.171C
		Leg SR 3	A572 gr.50	N/A	N/A	N/A	N/A		9.941 9.941	79.5	152.0	238.7	N/A	N/A	N/A	138.3	0.0	0.730C	
		Diag. SR 0 7/8(T)	A572 gr.50	2	5/8	N/A	N/A	N/A		12.155 11.051	490.0	0.4	20.3	N/A	N/A	20.7S	0.4	17.3	0.730C
		Horiz. (2)L2 1/2x2 1/2x1/4	300W	2	5/8	1.094	1.024	0.625	1	6.995 6.275	97.8	38.9	56.1	33.8	55.1	41.4S	6.8	6.8	0.201T
		Face Red. 1 L2x2x1/4	300W	2	5/8	1.094	1.102			3.497 3.497	113.8	12.2	21.1	17.6	27.5	20.7S	2.1	2.1	0.171C
		Leg SR 3 1/4	A572 gr.50	N/A	N/A	N/A	N/A	N/A		9.938 9.938	73.3	189.6	280.1	N/A	N/A	N/A	138.3	0.0	0.730C
22	All	Diag. SR 0 7/8(T)	A572 gr.50	2	3/4	N/A	N/A			12.153 10.981	487.0	0.4	20.3	N/A	N/A	29.8S	0.4	17.3	0.853T
		Horiz. (2)L2 1/2x2 1/2x1/4	300W	2	5/8	1.094	1.024	0.625	1	6.995 6.275	97.8	38.9	56.1	33.8	55.1	41.4S	6.8	6.8	0.201T



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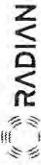
PAGE N 3

Section N : MEMBER CAPACITIES AND ASSESSMENT (cont.)

Section Descript.	Pnl	Member/Description	Grade	Bolts		End Dist. (in)	Edge Dist. (in)	Double Angle		Length Conn. Len (ft)	K/r	Capacities (Kips)				Maximum Load (Kips)		Ratio	
				No.	Size (in)			Spacing (in)	Stitch Bolts			Compress.	Tension	Block Shear	Bolt Bearing	Bolt (S or T)	Compress.		Tension
21	All	Horiz. (2)L2 1/2x2 1/2x1/4	300W	2	5/8	1.094	1.024	0.625	1	6.995 6.254	97.5	39.0	56.1	33.8	55.1	41.4S	10.0	10.0	0.295T
		Face Red. 1 L2x2x1/4	300W	2	5/8	1.094	1.102			3.497 3.497	113.8	12.2	21.1	17.6	27.5	20.7S	1.8	1.8	0.151C
		Leg SR 3 1/4	A572 Gr.50	N/A	N/A	N/A	N/A	N/A		9.941 9.941	73.4	189.6	280.1	N/A	N/A	N/A	143.8	0.0	0.759C
		Diag. SR 1 1/8(T)	A572 Gr.50	2	5/8	N/A	N/A	N/A		12.155 10.985	386.1	1.1	33.5	N/A	N/A	20.7S	1.1	18.6	0.554T
20	All	Horiz. (2)L2 1/2x2 1/2x1/4	300W	2	5/8	1.094	1.024	0.625	1	6.995 6.254	97.5	39.0	56.1	33.8	55.1	41.4S	10.7	10.7	0.316T
		Face Red. 1 L2x2x1/4	300W	2	5/8	1.094	1.102			3.497 3.497	113.8	12.2	21.1	17.6	27.5	20.7S	2.2	2.2	0.177C
		Leg SR 3 1/4	A572 Gr.50	N/A	N/A	N/A	N/A	N/A		9.941 9.941	73.4	189.6	280.1	N/A	N/A	N/A	160.4	0.0	0.846C
		Diag. SR 0 7/8(T)	A572 Gr.50	2	5/8	N/A	N/A	N/A		12.155 11.014	488.5	0.4	20.3	N/A	N/A	20.7S	0.4	10.2	0.505T
19	All	Horiz. (2)L2 1/2x2 1/2x1/4	300W	2	5/8	1.094	1.024	0.625	1	6.995 6.254	97.5	39.0	56.1	33.8	55.1	41.4S	5.9	5.9	0.174T
		Face Red. 1 L2x2x1/4	300W	2	5/8	1.094	1.102			3.497 3.497	113.8	12.2	21.1	17.6	27.5	20.7S	2.2	2.2	0.177C
		Leg SR 3 1/4	A572 Gr.50	N/A	N/A	N/A	N/A	N/A		9.941 9.941	73.4	189.6	280.1	N/A	N/A	N/A	166.9	0.0	0.880C
		Diag. SR 0 7/8(T)	A572 Gr.50	2	5/8	N/A	N/A	N/A		12.155 11.014	488.5	0.4	20.3	N/A	N/A	20.7S	0.4	5.2	0.257T
18	All	Horiz. (2)L2 1/2x2 1/2x1/4	300W	2	5/8	1.094	1.024	0.625	1	6.995 6.254	97.5	39.0	56.1	33.8	55.1	41.4S	3.0	3.0	0.089T
		Face Red. 1 L2x2x1/4	300W	2	5/8	1.094	1.102			3.497 3.497	113.8	12.2	21.1	17.6	27.5	20.7S	2.5	2.5	0.202C
		Leg SR 3 1/4	A572 Gr.50	N/A	N/A	N/A	N/A	N/A		9.941 9.941	73.4	189.6	280.1	N/A	N/A	N/A	166.0	0.0	0.875C
		Diag. SR 0 7/8(T)	A572 Gr.50	2	7/8	N/A	N/A	N/A		12.155 10.952	485.8	0.4	20.3	N/A	N/A	40.6S	0.4	9.4	0.462T
17	All	Horiz. (2)L2 1/2x2 1/2x1/4	300W	2	5/8	1.094	1.024	0.625	1	6.995 6.254	97.5	39.0	56.1	33.8	55.1	41.4S	5.4	5.4	0.160T
		Face Red. 1 L2x2x1/4	300W	2	5/8	1.094	1.102			3.497 3.497	113.8	12.2	21.1	17.6	27.5	20.7S	2.5	2.5	0.204C
		Leg SR 3 1/4	A572 Gr.50	N/A	N/A	N/A	N/A	N/A		9.941 9.941	73.4	189.6	280.1	N/A	N/A	N/A	150.6	0.0	0.795C
		Diag. SR 0 7/8(T)	A572 Gr.50	2	7/8	N/A	N/A	N/A		12.155 10.952	485.8	0.4	20.3	N/A	N/A	40.6S	0.4	15.0	0.736T
16	All	Horiz. (2)L2 1/2x2 1/2x1/4	300W	2	5/8	1.094	1.024	0.625	1	6.995 6.254	97.5	39.0	56.1	33.8	55.1	41.4S	8.6	8.6	0.254T
		Face Red. 1 L2x2x1/4	300W	2	5/8	1.094	1.102			3.497 3.497	113.8	12.2	21.1	17.6	27.5	20.7S	2.5	2.5	0.177C
		Leg SR 3 1/4	A572 Gr.50	N/A	N/A	N/A	N/A	N/A		9.941 9.941	73.4	189.6	280.1	N/A	N/A	N/A	150.6	0.0	0.795C
		Diag. SR 0 7/8(T)	A572 Gr.50	2	7/8	N/A	N/A	N/A		12.155 10.952	485.8	0.4	20.3	N/A	N/A	40.6S	0.4	15.0	0.736T







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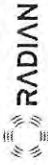
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Dec 30 2002

**FILE NO.**  
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**PAGE N 5**

**Section N : MEMBER CAPACITIES AND ASSESSMENT (cont.)**

Section Descript.	Pnl	Member/Description	Grade	Bolts		End Diat. (in)	Edge Diat. (in)	Double Angle Spacing (in)	Length Comp. Len (ft)	Kl/r	Capacities (Kips)			Maximum Load (Kips)		Ratio		
				No.	Size (in)						Tension	Block Shear	Bolt Bearing	Bolt (S or T)	Compress.		Tension	
11	All	Leg SR 3 3/4	A572 gr.50	N/A	N/A	N/A	N/A		9.941 9.941	63.6	372.9	N/A	N/A	N/A	245.0	0.0	0.892C	
		Diag. SR 1 1/8(T)	A572 gr.50	2	5/8	N/A	N/A		12.155 10.912	383.7	33.5	N/A	N/A	N/A	1.1	16.3	0.487T	
		Horiz. (2)L2 1/2x2 1/2x1/4	300W	2	5/8	1.094	1.024	0.625	1	6.995 6.212	96.8	39.3	56.1	55.1	41.48	9.4	9.4	0.278T
		Face Red. 1 L2x2x1/4	300W	2	5/8	1.094	1.102			3.497 3.497	113.8	12.2	21.1	17.6	20.78	3.5	3.5	0.284C
		Leg SR 3 3/4	A572 gr.50	N/A	N/A	N/A	N/A		9.938 9.938	63.6	372.9	274.7	N/A	N/A	N/A	223.5	0.0	0.814C
10	All	Diag. SR 0 7/8(T)	A572 gr.50	2	5/8	N/A	N/A		12.153 10.939	485.3	0.4	20.3	N/A	N/A	0.4	13.2	0.650T	
		Horiz. (2)L2 1/2x2 1/2x1/4	300W	2	5/8	1.094	1.024	0.625	1	6.995 6.212	96.8	39.3	56.1	55.1	41.48	7.6	7.6	0.225T
		Face Red. 1 L2x2x1/4	300W	2	5/8	1.094	1.102			3.497 3.497	113.8	12.2	21.1	17.6	20.78	3.4	3.4	0.275C
		Leg SR 3 3/4	A572 gr.50	N/A	N/A	N/A	N/A		9.941 9.941	63.6	372.9	274.7	N/A	N/A	N/A	207.1	0.0	0.754C
		Diag. SR 0 7/8(T)	A572 gr.50	2	5/8	N/A	N/A		12.155 10.942	485.4	20.3	20.3	N/A	N/A	N/A	0.4	8.7	0.428T
9	All	Horiz. (2)L2 1/2x2 1/2x1/4	300W	2	5/8	1.094	1.024	0.625	1	6.995 6.212	96.8	39.3	56.1	55.1	41.48	5.0	5.0	0.148T
		Face Red. 1 L2x2x1/4	300W	2	5/8	1.094	1.102			3.497 3.497	113.8	12.2	21.1	17.6	20.78	3.0	3.0	0.247C
		Leg SR 3 3/4	A572 gr.50	N/A	N/A	N/A	N/A		9.941 9.941	63.6	372.9	274.7	N/A	N/A	N/A	208.0	0.0	0.757C
		Diag. SR 0 7/8(T)	A572 gr.50	2	5/8	N/A	N/A		12.155 10.942	485.4	20.3	20.3	N/A	N/A	N/A	0.4	6.6	0.325T
		Horiz. (2)L2 1/2x2 1/2x1/4	300W	2	5/8	1.094	1.024	0.625	1	6.995 6.212	96.8	39.3	56.1	55.1	41.48	3.8	3.8	0.112T
8	All	Face Red. 1 L2x2x1/4	300W	2	5/8	1.094	1.102			3.497 3.497	113.8	12.2	21.1	17.6	20.78	3.1	3.1	0.256C
		Leg SR 3 3/4	A572 gr.50	N/A	N/A	N/A	N/A		9.941 9.941	63.6	372.9	274.7	N/A	N/A	N/A	236.9	0.0	0.863C
		Diag. SR 0 7/8(T)	A572 gr.50	2	5/8	N/A	N/A		12.155 10.942	485.4	20.3	20.3	N/A	N/A	N/A	0.4	6.6	0.325T
		Horiz. (2)L2 1/2x2 1/2x1/4	300W	2	5/8	1.094	1.024	0.625	1	6.995 6.212	96.8	39.3	56.1	55.1	41.48	3.8	3.8	0.112T
		Face Red. 1 L2x2x1/4	300W	2	5/8	1.094	1.102			3.497 3.497	113.8	12.2	21.1	17.6	20.78	3.1	3.1	0.256C
7	All	Leg SR 3 3/4	A572 gr.50	N/A	N/A	N/A	N/A		9.941 9.941	63.6	372.9	274.7	N/A	N/A	N/A	236.9	0.0	0.863C
		Diag. SR 0 7/8(T)	A572 gr.50	2	5/8	N/A	N/A		12.155 10.942	485.4	20.3	20.3	N/A	N/A	N/A	0.4	6.6	0.325T
		Horiz. (2)L2 1/2x2 1/2x1/4	300W	2	5/8	1.094	1.024	0.625	1	6.995 6.212	96.8	39.3	56.1	55.1	41.48	3.8	3.8	0.112T
		Face Red. 1 L2x2x1/4	300W	2	5/8	1.094	1.102			3.497 3.497	113.8	12.2	21.1	17.6	20.78	3.1	3.1	0.256C
		Leg SR 3 3/4	A572 gr.50	N/A	N/A	N/A	N/A		9.941 9.941	63.6	372.9	274.7	N/A	N/A	N/A	236.9	0.0	0.863C
6	All	Diag. SR 0 7/8(T)	A572 gr.50	2	5/8	N/A	N/A		12.155 10.942	485.4	0.4	20.3	N/A	N/A	0.4	15.4	0.761T	
		Horiz. (2)L2 1/2x2 1/2x1/4	300W	2	5/8	1.094	1.024	0.625	1	6.995 6.212	96.8	39.3	56.1	55.1	41.48	8.9	8.9	0.263T
		Face Red. 1 L2x2x1/4	300W	2	5/8	1.094	1.102			3.497 3.497	113.8	12.2	21.1	17.6	20.78	3.2	3.2	0.266C
		Leg SR 3 3/4	A572 gr.50	N/A	N/A	N/A	N/A		9.941 9.941	63.6	372.9	274.7	N/A	N/A	N/A	265.4	0.0	0.966C
		Diag. SR 0 7/8(T)	A572 gr.50	2	5/8	N/A	N/A		12.155 10.942	485.4	20.3	20.3	N/A	N/A	N/A	0.4	6.6	0.325T



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**PAGE N 6**

**Section N : MEMBER CAPACITIES AND ASSESSMENT (cont.)**

Section Descript.	Pnl	Member/Description	Grade	Bolts		End Dist. (in)	Edge Dist. (in)	Double Angle Spacing (in)	Stitch Bolts	Length Conn. Len (ft)	Kl/r	Capacities (Kips)			Maximum Load (Kips)		Ratio				
				No.	Size (in)							Compress.	Tension	Block Shear	Bolt Bearing	Bolt (S or T)		Compress.	Tension		
5	All	Diag. SR 1 1/8(T) Horiz. (2)L2 1/2x2 1/2x1/4 Face Red. 1 L2x2x1/4	A572 gr.50	2	5/8	N/A	N/A			12.155 10.912	383.7	1.1	33.5	N/A	20.7S	1.1	18.4	0.549T			
				2	5/8	1.094	1.024	0.625	1	6.995 6.212	96.8	33.8	56.1	39.3	55.1	41.4S	10.6	10.6	0.313T		
				2	5/8	1.094	1.102			3.497 3.497	113.8	17.6	21.1	12.2	27.5	20.7S	3.8	3.8	0.312C		
				N/A	N/A	N/A			9.941 9.941	63.6	372.9	N/A	N/A	244.7	0.0	0.891C					
				2	5/8	N/A	N/A			12.155 10.942	485.4	20.3	20.3	0.4	N/A	0.4	15.1	20.7S	0.4	15.1	0.745T
				2	5/8	1.094	1.024	0.625	1	6.995 6.212	96.8	33.8	56.1	39.3	55.1	41.4S	8.7	8.7	0.257T		
				2	5/8	1.094	1.102			3.497 3.497	113.8	17.6	21.1	12.2	27.5	20.7S	3.7	3.7	0.301C		
				N/A	N/A	N/A			9.938 9.938	63.6	372.9	N/A	N/A	246.0	0.0	0.896C					
				2	5/8	N/A	N/A			12.153 10.939	485.3	20.3	20.3	0.4	N/A	0.4	9.9	20.7S	0.4	9.9	0.488T
				2	5/8	1.094	1.024	0.625	1	6.995 6.212	96.8	33.8	56.1	39.3	55.1	41.4S	5.7	5.7	0.168T		
3	All	Diag. SR 0 7/8(T) Horiz. (2)L2 1/2x2 1/2x1/4 Face Red. 1 L2x2x1/4	A572 gr.50	2	5/8	N/A	N/A			9.938 9.938	63.6	372.9	N/A	N/A	N/A	253.1	0.0	0.921C			
				2	5/8	1.094	1.024	0.625	1	6.995 6.212	96.8	33.8	56.1	39.3	55.1	41.4S	5.7	5.7	0.287C		
				2	5/8	1.094	1.102			3.497 3.497	113.8	17.6	21.1	12.2	27.5	20.7S	3.5	3.5	0.287C		
				N/A	N/A	N/A			9.938 9.938	63.6	372.9	N/A	N/A	253.1	0.0	0.921C					
				2	5/8	N/A	N/A			12.153 10.939	485.3	20.3	20.3	0.4	N/A	0.4	5.5	20.7S	0.4	5.5	0.272T
				2	5/8	1.094	1.024	0.625	1	6.995 6.212	96.8	33.8	56.1	39.3	55.1	41.4S	3.2	3.2	0.094T		
				2	5/8	1.094	1.102			3.497 3.497	113.8	17.6	21.1	12.2	27.5	20.7S	3.8	3.8	0.310C		
				N/A	N/A	N/A			9.941 9.941	63.6	372.9	N/A	N/A	253.1	0.0	0.921C					
				2	5/8	N/A	N/A			12.155 10.942	485.4	20.3	20.3	0.4	N/A	0.4	6.7	20.7S	0.4	6.7	0.332T
				2	5/8	1.094	1.024	0.625	1	6.995 6.212	96.8	33.8	56.1	39.3	55.1	41.4S	3.9	3.9	0.115T		
1	All	Diag. SR 0 7/8(T) Horiz. (2)L2 1/2x2 1/2x1/4 Face Red. 1 L2x2x1/4	A572 gr.50	2	5/8	N/A	N/A			9.941 9.941	63.6	372.9	N/A	N/A	N/A	253.1	0.0	0.921C			
				2	5/8	1.094	1.024	0.625	1	6.995 6.212	96.8	33.8	56.1	39.3	55.1	41.4S	3.9	3.9	0.115T		
				2	5/8	1.094	1.102			3.497 3.497	113.8	17.6	21.1	12.2	27.5	20.7S	3.8	3.8	0.312C		
				N/A	N/A	N/A			9.941 9.941	63.6	372.9	N/A	N/A	241.7	0.0	0.880C					
				2	5/8	N/A	N/A			12.155 10.942	485.4	20.3	20.3	0.4	N/A	0.4	9.0	20.7S	0.4	9.0	0.445T
				2	5/8	1.094	1.024	0.625	1	6.995 6.212	96.8	33.8	56.1	39.3	55.1	41.4S	3.9	3.9	0.115T		
				2	5/8	1.094	1.102			3.497 3.497	113.8	17.6	21.1	12.2	27.5	20.7S	3.8	3.8	0.312C		
				N/A	N/A	N/A			9.941 9.941	63.6	372.9	N/A	N/A	241.7	0.0	0.880C					
				2	5/8	N/A	N/A			12.155 10.942	485.4	20.3	20.3	0.4	N/A	0.4	9.0	20.7S	0.4	9.0	0.445T
				2	5/8	1.094	1.024	0.625	1	6.995 6.212	96.8	33.8	56.1	39.3	55.1	41.4S	3.9	3.9	0.115T		



		<b>NAME</b> EV	<b>DATE</b> Dec 30 2002	<b>FILE NO.</b> 0170123
<b>CUSTOMER</b> N.E.T.V. KXNE-TV				<b>PAGE</b> Q1
<b>PROJECT</b> 938ft RT7				
<b>SITE</b> NORFOLK				

**Section Q : DISPLACEMENTS**

Mast Elev (ft)	Deflections (in)			Down	Rotations (deg)			Twist
	North	East	Total		Tilt North	Tilt East	Total	
938.3	-15.120A	-13.080E	15.120A	0.720A	-0.38G	0.32C	0.38G	-0.69K
924.5	-15.480A	-13.320E	15.480A	0.720A	-0.38G	0.32C	0.38G	-0.69K
893.0	-16.200A	-13.920E	16.200A	0.720A	-0.33G	0.28C	0.33G	-0.71K
863.2	-16.680A	-14.160E	16.680A	0.720A	-0.27G	0.23C	0.27G	-0.73K
835.0	-16.800A	-14.280E	16.800A	0.720A	-0.22G	0.19C	0.22G	0.78G
805.2	-16.800A	-14.520D	16.800A	0.600A	-0.20G	0.16C	0.20G	0.83G
788.4	-16.920A	-14.880D	16.920A	0.600A	-0.20G	0.17C	0.20G	0.84G
775.4	-16.920A	-15.120D	16.920A	0.600A	-0.20G	0.17C	0.20G	0.85G
745.6	-17.160A	-15.600D	17.160A	0.600A	-0.16G	0.13C	0.16G	0.84G
715.7	-17.040A	-15.840D	17.040A	0.600A	-0.09G	0.07C	0.09G	0.82G
703.9	-16.920A	-15.840D	16.920A	0.600A	-0.06G	0.05I	0.06G	0.81G
685.7	-16.680A	-15.720D	16.680A	0.600A	-0.08A	-0.08E	0.08E	0.79G
656.2	-16.080A	-15.240D	16.440C	0.600A	-0.11A	-0.11E	0.12E	0.75G
619.4	15.360G	-14.520D	15.960C	0.480A	-0.10A	-0.10E	0.11E	0.70G
596.5	15.120G	-14.040D	15.600C	0.480A	-0.10A	-0.10E	0.11E	0.70G
566.6	14.640G	-13.440D	15.000C	0.480A	-0.12A	-0.12D	0.13E	0.68G
552.0	14.280G	-13.080D	14.640C	0.480A	-0.13A	-0.13D	0.14E	0.67G
539.8	13.920G	-12.720D	14.280C	0.480A	-0.14A	-0.14D	0.15E	0.66G
522.0	13.440G	-12.120D	13.680C	0.480A	-0.16A	-0.16D	0.17E	0.64G
507.0	12.960G	-11.640D	13.200C	0.480A	-0.16A	-0.17D	0.18C	0.62G
477.2	11.880G	-10.560D	12.120C	0.480A	0.16G	-0.16D	0.17C	0.59G
460.3	11.400G	-10.080D	11.520C	0.360A	0.14G	-0.14D	0.15C	-0.57A
447.3	11.040G	-9.720D	11.040C	0.360A	0.13G	-0.13D	0.14C	-0.57A
432.0	10.560G	-9.240D	10.680C	0.360A	0.13G	-0.12D	0.13C	-0.56A
417.5	10.200G	-8.880D	10.200C	0.360A	0.13G	-0.12D	0.13C	-0.55A
385.8	9.360G	-8.160D	9.360G	0.360A	0.13G	-0.12D	0.14C	-0.51A
357.6	8.640G	-7.440D	8.640G	0.360A	0.13G	-0.12D	0.14C	-0.48L
328.1	7.800G	6.600J	7.800G	0.360A	0.13G	-0.11D	0.13C	-0.46L
311.2	7.320G	6.240J	7.320G	0.240A	0.11G	-0.10D	0.12C	-0.45L
298.2	7.080G	6.000J	7.080G	0.240A	0.10G	-0.09C	0.11C	-0.45L
268.4	6.480G	5.520J	6.480G	0.240A	0.10G	-0.08C	0.10C	-0.45L
252.0	6.120G	5.280J	6.120G	0.240A	0.10G	-0.09C	0.10C	-0.44L
236.7	5.760G	4.920J	5.760G	0.240A	0.11G	-0.09C	0.11G	-0.44L
208.8	5.160G	4.440J	5.160G	0.240A	0.12G	0.10J	0.12G	-0.41L
189.0	4.680G	3.960J	4.680G	0.240A	0.12G	0.10J	0.12G	-0.38L
178.9	4.440G	3.840J	4.440G	0.120A	0.12G	0.10J	0.12G	-0.36L
162.1	3.960G	3.480J	3.960G	0.120A	0.10G	0.08J	0.10G	-0.34L
149.1	3.720G	3.240J	3.720G	0.120A	0.10G	0.08J	0.10G	-0.34L
137.0	3.480G	3.120J	3.480G	0.120A	0.09G	0.08J	0.09G	-0.31L
119.3	3.120G	2.760J	3.120G	0.120A	0.10G	0.08J	0.10G	-0.27L
81.1	-2.280A	2.040J	2.280A	0.120A	0.11G	0.10J	0.11G	-0.18L
59.6	-1.800A	1.560J	1.800A	0.120A	0.13G	0.11J	0.13G	-0.14L
29.5	-0.960A	0.840J	0.960A	0.000A	-0.15A	0.13J	0.15A	-0.07L
0.0	0.000A	0.000A	0.000A	0.000A	-0.15A	0.14J	0.15A	0.00A

Maximum Displacements for Serviceability State.



NAME  
EV

DATE  
Dec 30 2002

FILE NO.  
0170123


CUSTOMER N.E.T.V. KXNE-TV  
PROJECT 938ft RT7  
SITE NORFOLK

PAGE R1

Section R : ANTENNA DISPLACEMENTS

Elevat. (ft)	Azi. (deg)	Beam Deflections (deg)			Total
		Roll	Yaw	Pitch	
974.97	0.00	-0.321C	0.693K	0.380G	0.720K
892.98	0.00	-0.278C	0.710K	0.330G	0.730K
791.99	0.00	-0.167C	0.840G	0.199G	0.863G
711.94	0.00	-0.057C	0.815G	0.081G	0.819G
551.97	0.00	0.132D	0.669G	0.133A	0.680A
521.98	0.00	0.159D	0.640G	0.157A	0.657G
441.99	0.00	0.125D	0.568A	-0.129G	0.582G
431.99	0.00	0.121D	0.559A	-0.125G	0.573G
251.97	0.00	0.086C	0.444L	-0.101G	0.451L
241.99	0.00	0.088C	0.439L	-0.105G	0.447L
231.99	0.00	0.091C	0.431L	-0.109G	0.440L
190.29	0.00	-0.097J	0.385L	-0.118G	0.395L
188.98	0.00	-0.097J	0.383L	-0.118G	0.394L
181.99	0.00	-0.096J	0.371L	-0.117G	0.382L
179.99	0.00	-0.095J	0.367L	-0.116G	0.378L
171.98	0.00	-0.091J	0.355L	-0.111G	0.366L
146.98	0.00	-0.077J	0.333L	-0.096G	0.341L
136.98	0.00	-0.076J	0.312L	-0.093G	0.321L
136.98	0.00	-0.076J	0.312L	-0.093G	0.321L

Maximum Antenna Displacements for Serviceability State.

 <b>RADIANT</b>	<b>NAME</b> EV	<b>DATE</b> Dec 30 2002	<b>FILE NO.</b> 0170123
<b>CUSTOMER</b> N.E.T.V. KXNE-TV <b>PROJECT</b> 938ft RT7 <b>SITE</b> NORFOLK			<b>PAGE</b> S1

**Section S : FOUNDATION LOADS**

Anchor Loads

Anchor Azimuth	Anchor Radius (ft)	Horiz. Load (Kips)	Vert. Load (Kips)	Axial Load (Kips)	Angle
0.00	390.00	102.80-M	86.70-M	134.50-M	40.100-M
120.00	390.00	100.70-Q	81.30-F	129.00-Q	38.700-Q
240.00	390.00	100.50-U	81.10-H	128.70-U	38.600-U
0.00	680.00	140.50-M	153.60-M	208.20-M	47.500-M
120.00	680.00	140.50-Q	151.90-Q	206.90-Q	47.200-Q
240.00	680.00	140.30-U	149.90-U	205.30-U	46.900-U

Base Reactions

Reaction (Kips)	Shear (Kips)	Torsion (Kipsft)
663.13	2.72	9.80

**GUY TENSION CHART**

STANDARD INITIAL TENSIONS ARE AT 60 F  
TOWER BASE ELEVATION = 0.000  
Dimensions are in (FEET) unless specified otherwise.

GUY DATA:			GUY HEIGHT 160.637			GUY DIAMETER (in.) 0.8750					
ANCHOR NAME			1B			2B			3B		
ANCHOR AZ =			27.00			147.00			267.00		
RADIUS =			390.000			390.000			403.000		
ELEVATION =			-11.831			-11.831			-22.333		
TEMP.	GUY TENSION		TAN. INT.	GUY TENSION		TAN. INT.	GUY TENSION		TAN. INT.		
	(KIPS)	(KN)	(ft)	(KIPS)	(KN)	(ft)	(KIPS)	(KN)	(ft)		
-20	18.80	83.64	7.24	18.80	83.64	7.24	18.82	83.71	7.81		
00	17.60	78.30	7.73	17.60	78.30	7.73	17.61	78.35	8.35		
20	16.40	72.96	8.30	16.40	72.96	8.30	16.41	72.99	8.96		
40	15.20	67.61	8.95	15.20	67.61	8.95	15.20	67.63	9.67		
60	14.00	62.27	9.72	14.00	62.27	9.72	14.00	62.27	10.50		
80	12.80	56.93	10.63	12.80	56.93	10.63	12.79	56.91	11.49		
100	11.60	51.58	11.74	11.60	51.58	11.74	11.59	51.55	12.69		
120	10.40	46.24	13.09	10.40	46.24	13.09	10.38	46.19	14.16		
140	9.19	40.90	14.80	9.19	40.90	14.80	9.18	40.83	16.02		

\*\* TANGENT INTERCEPT & TENSIONS AT + 10.0 % OF DESIGN MAXIMUM ALLOWABLE \*\*

TEMP.	GUY TENSION		TAN. INT.	GUY TENSION		TAN. INT.	GUY TENSION		TAN. INT.
	(KIPS)	(KN)	(ft)	(KIPS)	(KN)	(ft)	(KIPS)	(KN)	(ft)
-20	20.68	92.01	6.58	20.68	92.01	6.58	20.70	92.08	7.10
00	19.36	86.13	7.03	19.36	86.13	7.03	19.38	86.19	7.59
20	18.04	80.25	7.54	18.04	80.25	7.54	18.05	80.29	8.14
40	16.72	74.37	8.14	16.72	74.37	8.14	16.72	74.39	8.79
60	15.40	68.50	8.84	15.40	68.50	8.84	15.40	68.50	9.55
80	14.08	62.62	9.67	14.08	62.62	9.67	14.07	62.60	10.45
100	12.76	56.74	10.67	12.76	56.74	10.67	12.75	56.70	11.53
120	11.43	50.86	11.90	11.43	50.86	11.90	11.42	50.81	12.87
140	10.11	44.99	13.46	10.11	44.99	13.46	10.10	44.91	14.56



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						N.E.T.V - KXNE-TV	
						EF&I a new Structure	
						NORFOLK, NE	
0	2/14/03		SIP	AAS	GU	DRAWING NO.	REV
REV	DATE	DESCRIPTION	DWN	CHKD	APPD	07-NKHS-E03-01	0



2

GUY TENSION CHART

STANDARD INITIAL TENSIONS ARE AT 60 F  
TOWER BASE ELEVATION = 0.000  
Dimensions are in (FEET) unless specified otherwise.

GUY DATA: GUY HEIGHT 309.583 GUY DIAMETER (in.) 0.8750

ANCHOR NAME	1B	2B	3B
ANCHOR AZ =	27.00	147.00	267.00
RADIUS =	390.000	390.000	403.000
ELEVATION =	-11.831	-11.831	-22.333

TEMP.	GUY TENSION			TAN. INT. (ft)	GUY TENSION			TAN. INT. (ft)	GUY TENSION			TAN. INT. (ft)
	(KIPS)	(KN)	(ft)		(KIPS)	(KN)	(ft)		(KIPS)	(KN)	(ft)	
-20	13.97	62.12	13.88	13.97	62.12	13.88	14.04	62.47	14.76			
00	13.12	58.35	14.78	13.12	58.35	14.78	13.18	58.62	15.73			
20	12.27	54.59	15.80	12.27	54.59	15.80	12.31	54.77	16.84			
40	11.43	50.82	16.97	11.43	50.82	16.97	11.45	50.91	18.11			
60	10.58	47.06	18.33	10.58	47.06	18.33	10.58	47.06	19.60			
80	9.73	43.30	19.92	9.73	43.30	19.92	9.71	43.21	21.34			
100	8.89	39.53	21.82	8.89	39.53	21.82	8.85	39.35	23.43			
120	8.04	35.77	24.11	8.04	35.77	24.11	7.98	35.50	25.98			
140	7.19	32.00	26.95	7.19	32.00	26.95	7.11	31.65	29.14			

\*\* TANGENT INTERCEPT & TENSIONS AT + 10.0 % OF DESIGN MAXIMUM ALLOWABLE \*\*

TEMP.	GUY TENSION			TAN. INT. (ft)	GUY TENSION			TAN. INT. (ft)	GUY TENSION			TAN. INT. (ft)
	(KIPS)	(KN)	(ft)		(KIPS)	(KN)	(ft)		(KIPS)	(KN)	(ft)	
-20	15.36	68.33	12.62	15.36	68.33	12.62	15.45	68.72	13.42			
00	14.43	64.19	13.44	14.43	64.19	13.44	14.50	64.48	14.30			
20	13.50	60.05	14.36	13.50	60.05	14.36	13.54	60.24	15.31			
40	12.57	55.91	15.43	12.57	55.91	15.43	12.59	56.00	16.47			
60	11.64	51.77	16.66	11.64	51.77	16.66	11.64	51.77	17.81			
80	10.71	47.62	18.11	10.71	47.62	18.11	10.68	47.53	19.40			
100	9.78	43.48	19.83	9.78	43.48	19.83	9.73	43.29	21.30			
120	8.84	39.34	21.92	8.84	39.34	21.92	8.78	39.05	23.61			
140	7.91	35.20	24.50	7.91	35.20	24.50	7.83	34.81	26.49			



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N.E.T.V - KXNE-TV  
EF&I a new Structure  
NORFOLK, NE

0	2/14/03		SIP	AAS	FU	DRAWING NO. 07-NKHS-E03-02	REV 0
REV	DATE	DESCRIPTION	DWN	CHKD	APPD		

3

### GUY TENSION CHART

STANDARD INITIAL TENSIONS ARE AT 60 F  
 TOWER BASE ELEVATION = 0.000  
 Dimensions are in (FEET) unless specified otherwise.

GUY DATA:	GUY HEIGHT	GUY DIAMETER (in.)		
	<u>458.556</u>	1.0000		
ANCHOR NAME	1B	2B	3B	
ANCHOR AZ =	27.00	147.00	267.00	
RADIUS =	390.000	390.000	403.000	
ELEVATION =	-11.831	-11.831	-22.333	

TEMP.	GUY TENSION			TAN. INT. (ft)	GUY TENSION			TAN. INT. (ft)	GUY TENSION			TAN. INT. (ft)
	(KIPS)	(KN)	(ft)		(KIPS)	(KN)	(ft)		(KIPS)	(KN)	(ft)	
-20	17.01	75.66	21.99	17.01	75.66	21.99	17.15	76.29	23.02			
00	16.26	72.34	23.00	16.26	72.34	23.00	16.37	72.81	24.12			
20	15.51	69.01	24.11	15.51	69.01	24.11	15.59	69.33	25.34			
40	14.77	65.69	25.33	14.77	65.69	25.33	14.80	65.84	26.68			
60	14.02	62.36	26.68	14.02	62.36	26.68	14.02	62.36	28.17			
80	13.27	59.03	28.19	13.27	59.03	28.19	13.24	58.88	29.83			
100	12.52	55.71	29.87	12.52	55.71	29.87	12.45	55.39	31.71			
120	11.78	52.38	31.76	11.78	52.38	31.76	11.67	51.91	33.83			
140	11.03	49.06	33.92	11.03	49.06	33.92	10.89	48.43	36.27			

\*\* TANGENT INTERCEPT & TENSIONS AT + 10.0 % OF DESIGN MAXIMUM ALLOWABLE \*\*

TEMP.	GUY TENSION			TAN. INT. (ft)	GUY TENSION			TAN. INT. (ft)	GUY TENSION			TAN. INT. (ft)
	(KIPS)	(KN)	(ft)		(KIPS)	(KN)	(ft)		(KIPS)	(KN)	(ft)	
-20	18.71	83.23	19.99	18.71	83.23	19.99	18.87	83.92	20.93			
00	17.89	79.57	20.91	17.89	79.57	20.91	18.00	80.09	21.93			
20	17.07	75.91	21.92	17.07	75.91	21.92	17.14	76.26	23.03			
40	16.24	72.25	23.03	16.24	72.25	23.03	16.28	72.43	24.25			
60	15.42	68.60	24.26	15.42	68.60	24.26	15.42	68.60	25.61			
80	14.60	64.94	25.62	14.60	64.94	25.62	14.56	64.76	27.12			
100	13.78	61.28	27.15	13.78	61.28	27.15	13.70	60.93	28.82			
120	12.95	57.62	28.88	12.95	57.62	28.88	12.84	57.10	30.76			
140	12.13	53.96	30.84	12.13	53.96	30.84	11.98	53.27	32.97			



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						N.E.T.V - KXNE-TV		
						EF&I a new Structure		
						NORFOLK, NE		
0	2/14/03		SIP	AA5	GU	DRAWING NO.		REV
REV	DATE	DESCRIPTION	DWN	CHKD	APPD	07-NKHS-E03-03		0



**GUY TENSION CHART**

STANDARD INITIAL TENSIONS ARE AT 60 F  
TOWER BASE ELEVATION = 0.000  
Dimensions are in (FEET) unless specified otherwise.

GUY DATA:	GUY HEIGHT 786.476		GUY DIAMETER (in.) 1.2500	
ANCHOR NAME	1A		2A	3A
ANCHOR AZ =	27.00		147.00	
RADIUS =	664.000		680.000	267.00
ELEVATION =	-16.749		-30.499	690.000
				-41.998

TEMP.	GUY TENSION			TAN. INT. (ft)	GUY TENSION			TAN. INT. (ft)	GUY TENSION			TAN. INT. (ft)
	(KIPS)	(KN)	(KIPS)		(KN)	(KIPS)	(KN)					
-20	25.74	114.48	67.26	25.89	115.18	69.58	25.99	115.63	71.34			
00	24.55	109.21	70.50	24.67	109.74	73.03	24.75	110.07	74.94			
20	23.37	103.94	74.07	23.45	104.30	76.84	23.50	104.52	78.92			
40	22.18	98.68	78.03	22.22	98.85	81.07	22.25	98.96	83.35			
60	21.00	93.41	82.43	21.00	93.41	85.79	21.00	93.41	88.30			
80	19.82	88.14	87.35	19.78	87.97	91.10	19.75	87.86	93.89			
100	18.63	82.88	92.90	18.55	82.52	97.11	18.50	82.30	100.23			
120	17.45	77.61	99.21	17.33	77.08	103.97	17.25	76.75	107.48			
140	16.26	72.34	106.43	16.10	71.64	111.87	16.00	71.19	115.87			

\*\* TANGENT INTERCEPT & TENSIONS AT + 10.0 % OF DESIGN MAXIMUM ALLOWABLE \*\*

TEMP.	GUY TENSION			TAN. INT. (ft)	GUY TENSION			TAN. INT. (ft)	GUY TENSION			TAN. INT. (ft)
	(KIPS)	(KN)	(KIPS)		(KN)	(KIPS)	(KN)					
-20	28.31	125.93	61.14	28.48	126.70	63.25	28.59	127.19	64.85			
00	27.01	120.13	64.09	27.14	120.71	66.39	27.22	121.08	68.12			
20	25.70	114.34	67.34	25.79	114.73	69.85	25.85	114.97	71.74			
40	24.40	108.55	70.93	24.45	108.74	73.70	24.47	108.86	75.77			
60	23.10	102.75	74.93	23.10	102.75	77.99	23.10	102.75	80.28			
80	21.80	96.96	79.41	21.75	96.76	82.82	21.73	96.64	85.35			
100	20.49	91.16	84.46	20.41	90.78	88.28	20.35	90.53	91.11			
120	19.19	85.37	90.19	19.06	84.79	94.52	18.98	84.42	97.71			
140	17.89	79.58	96.76	17.71	78.80	101.70	17.60	78.31	105.33			



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						N.E.T.V - KXNE-TV	
						EF&I a new Structure	
						NORFOLK, NE	
0	2/14/03		SIP	APP	BU	DRAWING NO.	REV
REV	DATE	DESCRIPTION	DWN	CHKD	APPD	07-NKHS-E03-05	0

6

GUY TENSION CHART

STANDARD INITIAL TENSIONS ARE AT 60 F  
TOWER BASE ELEVATION = 0.000  
Dimensions are in (FEET) unless specified otherwise.

GUY DATA:	GUY HEIGHT		GUY DIAMETER (in.)		
	936.591		1.0625		
ANCHOR NAME	1A		2A		3A
ANCHOR AZ =	27.00		147.00		267.00
RADIUS =	664.000		680.000		690.000
ELEVATION =	-16.749		-30.499		-41.998

TEMP.	GUY TENSION			TAN. INT. (ft)	GUY TENSION			TAN. INT. (ft)	GUY TENSION			TAN. INT. (ft)
	(KIPS)	(KN)	(ft)		(KIPS)	(KN)	(ft)		(KIPS)	(KN)	(ft)	
-20	15.75	70.05	99.07	15.87	70.58	101.86	15.94	70.92	104.01			
00	15.06	67.00	103.58	15.15	67.39	106.68	15.21	67.65	109.05			
20	14.37	63.94	108.53	14.43	64.20	111.97	14.47	64.38	114.59			
40	13.69	60.89	113.98	13.72	61.02	117.82	13.74	61.10	120.73			
60	13.00	57.83	120.01	13.00	57.83	124.31	13.00	57.83	127.56			
80	12.31	54.77	126.70	12.28	54.64	131.57	12.26	54.56	135.21			
100	11.63	51.72	134.19	11.57	51.46	139.71	11.53	51.28	143.84			
120	10.94	48.66	142.62	10.85	48.27	148.94	10.79	48.01	153.65			
140	10.25	45.61	152.17	10.13	45.08	159.47	10.06	44.74	164.89			

\*\* TANGENT INTERCEPT & TENSIONS AT + 10.0 % OF DESIGN MAXIMUM ALLOWABLE \*\*

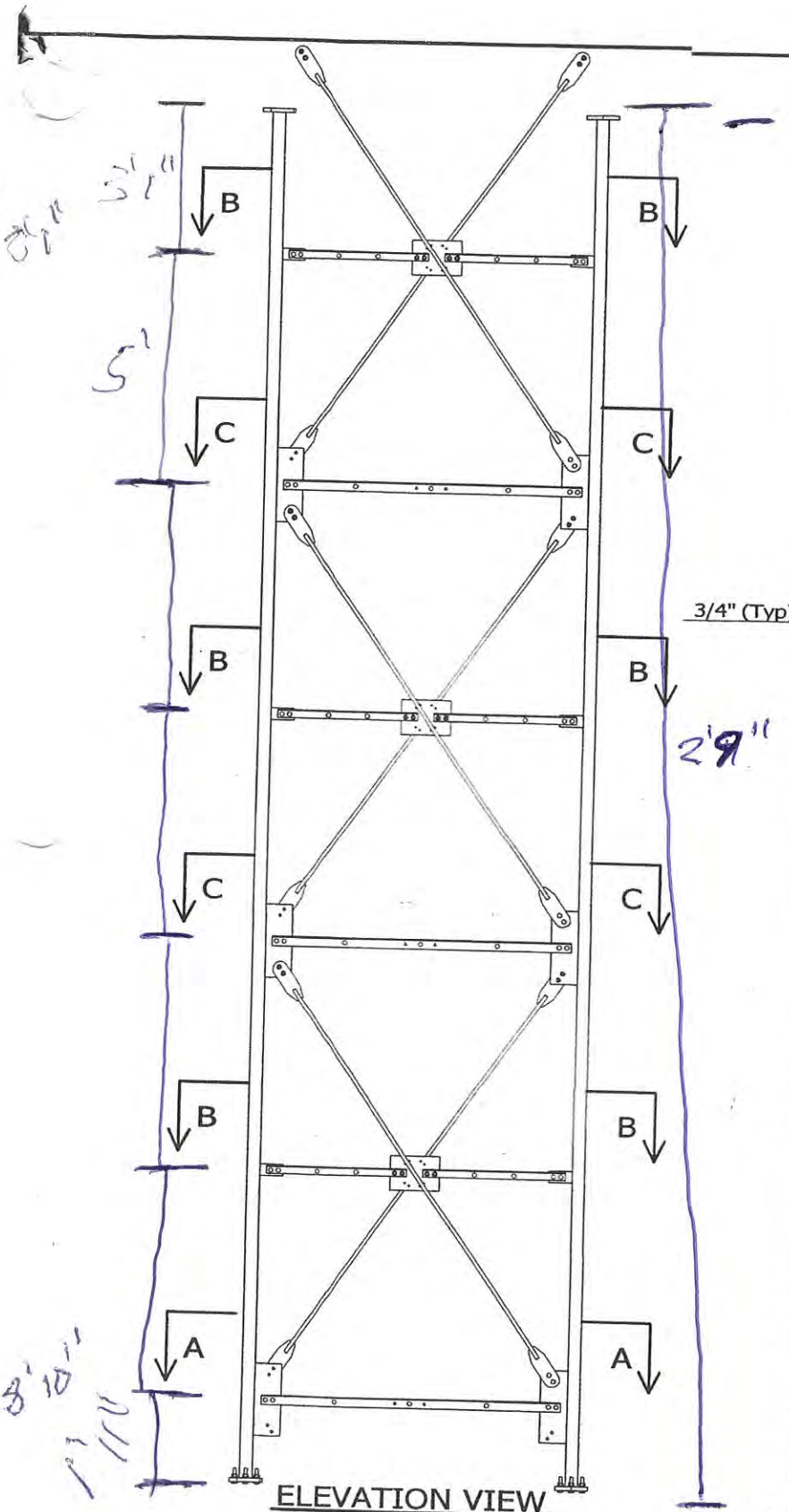
TEMP.	GUY TENSION			TAN. INT. (ft)	GUY TENSION			TAN. INT. (ft)	GUY TENSION			TAN. INT. (ft)
	(KIPS)	(KN)	(ft)		(KIPS)	(KN)	(ft)		(KIPS)	(KN)	(ft)	
-20	17.32	77.06	90.06	17.45	77.64	92.60	17.54	78.01	94.56			
00	16.57	73.70	94.17	16.67	74.13	96.98	16.73	74.41	99.13			
20	15.81	70.34	98.67	15.88	70.62	101.79	15.92	70.81	104.17			
40	15.06	66.97	103.62	15.09	67.12	107.11	15.11	67.21	109.75			
60	14.30	63.61	109.10	14.30	63.61	113.01	14.30	63.61	115.96			
80	13.55	60.25	115.18	13.51	60.11	119.61	13.49	60.01	122.92			
100	12.79	56.89	121.99	12.72	56.60	127.01	12.68	56.41	130.77			
120	12.03	53.53	129.65	11.94	53.10	135.40	11.87	52.81	139.68			
140	11.28	50.17	138.34	11.15	49.59	144.97	11.06	49.21	149.90			



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						N.E.T.V - KXNE-TV		
						EF&I a new Structure		
						NORFOLK, NE		
0	2/14/03		SIP	AAS	ev	DRAWING NO.		REV
REV	DATE	DESCRIPTION	DWN	CHKD	APPD	07-NKHS-E03-06		0



**ELEVATION VIEW**

FILE NO.: 02-017-0123

REVISIONS				
REV.	DESCRIPTION	DWN	CHK	APP
0	FOR RELEASE	SIP	AAS	EV

DWG REFERENCE	
DWG	07-NKHS-E13-02
DWG	
DWG	
DWG	
DWG	
DWG	



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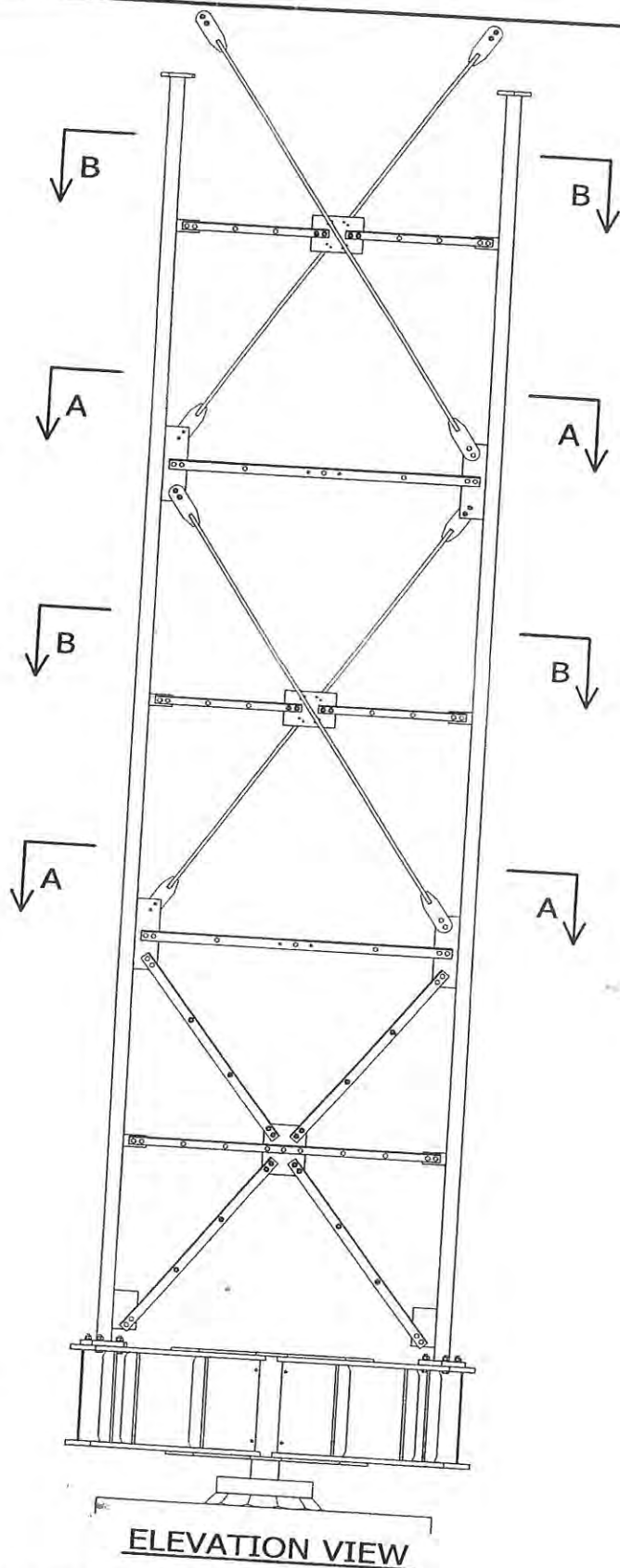
N.E.T.V - KXNE-TV  
 1014.75FT (AGL) RT7 MAST  
 SECT 15,17,18-TX & LIGHTING SUPPORT  
 NORFOLK, NE

DWN: SIP	CHK'D: AAS	DATE: 26.03.2003
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ENG'R: EV	ENG'R APP'D:
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DRAWING NO: 07-NKHS-E13-01	REV:
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- NOTES:
- 1) ALL BOLTS ARE COMPLETED WITH LOCK NUT & FLAT WASHE
  - 2) SEE STANDARD DRAWINGS FOR PART INFORMATION.
  - 3) PLATFORM & GRATING ARE NOT SHOWN FOR CLARITY.
  - 4) FOR TX LINES LAYOUT SEE Dwg 07-NKHS-E02-01.
  - 5) FOR SECT C-C SEE Dwg 07-NKHS-E13-02.



**ELEVATION VIEW**

**NOTES:**

- 1) ALL BOLTS ARE COMPLETED WITH LOCK NUT & FLAT WASHER.
- 2) SEE STANDARD DRAWINGS FOR PART INFORMATION.
- 3) PLATFORM & GRATING ARE NOT SHOWN FOR CLARITY.
- 4) FOR TX LINES LAYOUT SEE Dwg 07-NKHS-E02-01.
- 5) FOR ELEVATION OF TX LINES COMING OUT OF TOWER SEE Dwg 07-NKHS-E109-01 TO 04.

