



STRUCTURE LOADING TABLE *

ITEM	LOAD	LC1	LC2	LC3	LC4
SHIELD WIRE	V1	700	250	1,100	200
	L1	6,700	3,800	5,200	2,300
69KV CONDUCTOR	V2	1,800	800	2,300	700
	L2	12,500	7,800	9,500	3,200
TERMINATOR/ARRESTER	V3	1,200	800	1,400	700
WIND ON STRUCTURE	W	10	27.5	0	0

STRUCTURE TABLE

STR. NO.	STR. HEIGHT
#1-NORTH	85'-0"
#2-SOUTH	(25,908mm)

WIRE DATA:

SHIELD WIRE:	3/8"IN (9.1mm) 7 - STRAND WIRE HS (STEEL)	WT = 2.73LBS/FT	RTS = 10,800LBS
NEG CONDUCTOR:	1/2" (12.7mm) 12 - STRAND WIRE HS (STEEL)	WT = 2.73LBS/FT	RTS = 10,800LBS
POS CONDUCTOR:	1/2" (12.7mm) 12 - STRAND WIRE HS (STEEL)	WT = 2.73LBS/FT	RTS = 10,800LBS
69KV CONDUCTOR:	954 KCMIL 45/7 AC SR "TALL"	WT = 1.07LBS/FT	RTS = 25,900LBS
TERMINATOR/ARRESTER:	1.6IN (25.6mm) 1/2IN (12.7mm) RADIAL ICE, 0°F	WT = 1.400	RTS = 700

- NOTES:**
- ALL LOADS ARE ULTIMATE LOADS AND INCLUDE OVERLOAD FACTORS.
 - THE MAXIMUM DEFLECTION AT POLE TOP SHALL NOT EXCEED 10% OF THE POLE HEIGHT ABOVE GROUND AS A RESULT OF WORST CASE LOADING.
 - CLIMBING LADDER CLIPS SHALL BE PROVIDED FROM 3'-0" (915mm) ABOVE GROUND TO THE TOP OF POLE ON FACE 12. TWO GROUPS OF WORKING LADDER CLIPS SHALL BE PROVIDED 3'-0" (915mm) BELOW EACH CONDUCTOR ATTACHMENT POINT.
 - SEE DRAWING 136462-WSTR-E008 FOR STRUCTURE FOUNDATION DETAILS.
 - PROVIDE CABLE SUPPORT BRACKET ON FACE 10, AT 10'-0" (3048mm), 20'-0" (6096mm), 30'-0" (9144mm), 41'-0" (12497mm) AND 51'-0" (15606mm) ABOVE BOTTOM OF POLE.
 - CONNECTIONS BETWEEN POLE SEGMENTS SHALL BE BOLTED FLANGE CONNECTIONS.
 - THE LINK BOX SUPPORT BRACKET SHALL BE PROVIDED ON FACE 6, AT 12" (305mm) BELOW THE BOTTOM OF EACH ARM.
 - THE ONE-HOLE GROUND CLIP SHALL BE PROVIDED ON FACE 8 AT 12" (305mm) BELOW EACH LINK BOX SUPPORT BRACKET.
 - THE ONE-HOLE GROUND CLIP SHALL BE PROVIDED ON FACE 6 AT 5'-0" (1524mm) CENTER FROM TOP TO THE BOTTOM OF THE POLE.

KDOT PROJ. NO. 54-87 K-8258-01
Sheet No. 156 of 556

APPROVED FOR CONSTRUCTION

BLACK & VEATCH
 ENGINEER NTH DRAWN TOM
 CHECKED RNS DATE 03/01/06

WESTAR ENERGY COMPANY
 US HIGHWAY 54/KELLOGG AVENUE PROJECT
 69KV UNDERGROUND CABLE PROJECT
 TRANSITION STRUCTURE ELEVATION & PLANS

PROJECT DRAWING NUMBER
136462-WSTR-P003

REV
 1

I HEREBY CERTIFY THAT THIS DOCUMENT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND I AM A LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF KANSAS

DATE _____ REG. NO. _____

MR. NATHANIEL FLURBAUM
 DR. BRADISCHKA/DEJARI

69KV OVERHEAD TO UNDERGROUND TRANSITION STRUCTURE
 NTS

NO.	DATE	REVISIONS AND RECORD OF ISSUE
1	03/01/06	ISSUED FOR CONSTRUCTION
0	01/31/05	93% REVIEW ISSUE