EFFECTIVE 03-28-2002

GBA GEORGE BUTLER ASSOCIATES, INC. Engineers • Architects Kansas • Missouri • Illinois	DATE: APRIL, 2003
	DESIGN BY: DTS
	DRAWN BY: DTS
	PROJECT NO.: 9803
TRAFFIC SIGNAL MODIFICATION **T.R. HUGHES AND COOL SPRINGS INDUSTRIAL DRIVE** O'FALLON, MISSOURI	SHEET NO. 3 / TOTAL SHEETS 6

REVISED 4/18/2003 AS PER CITY COMMENTS – DTS

SPAN WIRE POLES

POST NUMBER	WOOD CLASS IV	WOOD CONCRETE* EMBEDMENT	STEEL (A10 BASE REQUIRED)
TOTAL		XXXX	

SPAN WIRE CABLE SPANS

SPAN NUMBER	FROM POST	TO POST	SINGLE MESSENGER ASSEMBLY (LIN. FT.)	DOUBLE MESSENGER ASSEMBLY (LIN. FT.)
		TOTAL		

LOCATION / BASES

POST NUMBER	PULL BOX NUMBER	APPROACH	STATION	OFFSET	A 8	A 10	A 13	A 8 MOD	A 10 MOD	A 13 MOD	B 8	B 10	B 13	C	CONCRETE (CU. YDS.)
			CONTROLLER	(AS REQ'D)											2.00
1		TR HUGHES BOULEVARD	132+12	42.6 R									1		3.40
2		TR HUGHES BOULEVARD	131+19	47.6 R									1		3.40
3		TR HUGHES BOULEVARD	130+98	37.8 R										1	0.44
4		TR HUGHES BOULEVARD	131+02	51.2 L									1		3.40
5		TR HUGHES BOULEVARD	131+96	61.2 L									1		3.40
6		TR HUGHES BOULEVARD	132+17	47.9 L										1	0.44
	1	TR HUGHES BOULEVARD	132+21	29.1 R											
	2	TR HUGHES BOULEVARD	131+10	39.6 R											
	3	TR HUGHES BOULEVARD	130+91	40.8 L											
	4	TR HUGHES BOULEVARD	132+27	40.8 L											
				TOTAL											16.48

PULL BOX / POST – TOP MOUNT / TYPE C & CL

POST NUMBER	PULL BOX NUMBER	PREFORMED CLASS 1	PREFORMED CLASS 2	PREFORMED CLASS 3	CONC. STANDARD	CONC. DOUBLE	DRAIN TYPE* I	DRAIN TYPE* II A	II B	II C	TOP MOUNT POST LENGTH (FEET) 7	10	ARM LENGTH (EXISTING) A	A	A	A	A	A	SIGNAL SPACING B	C	D	D'	SIGN SPACING B	C	D	D'
1													48						23	12	12		5	39	3	
2														35					24	10			5	17	10	
3											1															
4															45				20	12	12		5	36	3	
5														35					24	10			5	17	10	
6											1															
	1			1			1																			
	2		1				1																			
	3		1				1																			
	4		1				1																			
TOTAL			3	1			XXXX	XXXX	XXXX	XXXX	2		1	2	1				XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX

POST – TYPE B & BL

POST NUMBER	ARM LENGTH E	K	E	K	E	K	E	K	LEFT ARM E (EX.) SIGNAL F	G	H	H'	SIGN F	G	H	H'	RIGHT ARM K (EX.) SIGNAL L	M	N	N'	SIGN L	M	N	N'	INCLUDED ANGLE
1–6																									
TOTAL									XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX

LUMINAIRE BRACKET ARM * / CONTRACTOR FURNISHED SIGNS

POST NUMBER	LUMINAIRE BRACKET ARM * (FEET) 4	6	8	10	12	15	CODE SIGN NUMBER FROM SIGNAL PLAN (SHEET 2) S12	S13	S15	S3
1						1	1	1	2	1
2						1		1		1
3									2	
4						1	1	1	2	1
5						1		1		1
6									2	
TOTAL	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	2	4	8	4

SIGNAL HEADS

SPAN NUMBER	POST NUMBER	FACE NUMBER	LUMINAIRE 150W SODIUM	12" LENS CONVENTIONAL * R	Y	G	S	L	R↑	YL	YR↑	W	DW	12" LENS OPTICAL LIMITING R	Y	G	S	L	R↑	YL	YR↑	VISORS * 12" LENS STD 9.5	TUN 12
	1	10	1	1	1	1		1		1													5
	1	61		1	1	1																	3
	1	62		1	1	1																	3
	1	63		1	1	1																	3
	1	64										1	1										
	1	44										1	1										
	2	30	1	1				1		1													3
	2	81		1	1	1																	3
	2	82		1	1	1																	3
	3	65										1	1										
	3	83										1	1										
	4	50	1	1	1	1		1		1													5
	4	21		1	1	1																	3
	4	22		1	1	1																	3
	4	23		1	1	1																	3
	4	24										1	1										
	4	84										1	1										
	5	70	1	1				1		1													3
	5	41		1	1	1																	3
	5	42		1	1	1																	3
	6	25										1	1										
	6	43										1	1										
TOTAL			4																				

POST NUMBER	FACE NUMBER	LOUVERS * A	B	C	D	E	F	BACKPLATE * LENSES 1	2	3	4	5	BRACKET * TYPE I	II	III	IV
1	10											1			1	
1	61									1			1			
1	62									1			1			
1	63												1			
1	64												1			
1	44												1			
2	30									1			1			
2	81									1			1			
2	82												1			
3	65												1			
3	83												1			
4	50											1			1	
4	21									1			1			
4	22									1			1			
4	23												1			
4	24												1			
4	84												1			
5	70									1			1			
5	41									1			1			
5	42												1			
6	25												1			
6	43												1			

POST NUMBER	FACE NUMBER	ONE-FACE SECTION 1- T	S	C	B	2- T	S	3- T	S	C	B	4- S	C	B	5- S	C	B
1	10																1
1	61										1						
1	62										1						
1	63								1								
1	64		1														
1	44		1														
2	30										1						
2	81										1						
2	82								1								
3	65		1														
3	83		1														
4	50																1
4	21										1						
4	22										1						
4	23								1								
4	24		1														
4	84		1														
5	70										1						
5	41										1						
5	42								1								
6	25		1														
6	43		1														
TOTAL	OPTICALLY LIMITED																
TOTAL	CONVENTIONAL		8						4		8						2
TOTAL	COMBINATION O.L. & CONV																

POST NUMBER	FACE NUMBER	TWO-FACE SECTIONS 11- T	S	B	22- T	S	33- T	S	B	34- S	B	35- S	B	44- S	B	45- S	B
1–6																	

REMARKS

ALL LENGTHS AND SPACINGS ARE IN FEET UNLESS OTHERWISE INDICATED.

STANDARDS AS PER SECTION 902, OF THE 2000 VERSION OF THE MISSOURI STANDARD PLANS FOR HIGHWAY CONSTRUCTION.

* ITEMS FOR WHICH SEPARATE PAYMENT WILL NOT BE MADE

** ALL SIGNAL INDICATORS SHALL BE LED MODULES. ALL PEDESTRIAN "DON'T WALK" INDICATIONS SHALL BE PORTLAND ORANGE LED MODULES.

STATE OF MISSOURI — DANIEL T. SHANE — NUMBER E-29833 — REGISTERED PROFESSIONAL ENGINEER

4/18/03

LEGEND

B–MAST ARM MOUNT
C–SPANWIRE MOUNT
T–TOP MOUNT
S–SIDE MOUNT

T.R. HUGHES BOULEVARD AND COOL SPRINGS INDUSTRIAL DRIVE

INTERSECTION

D–37A