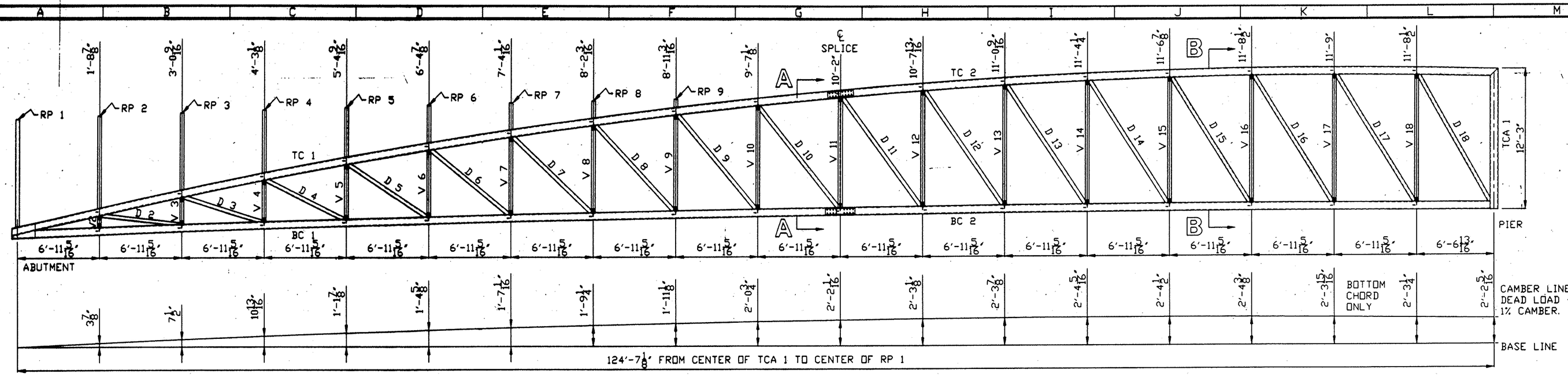
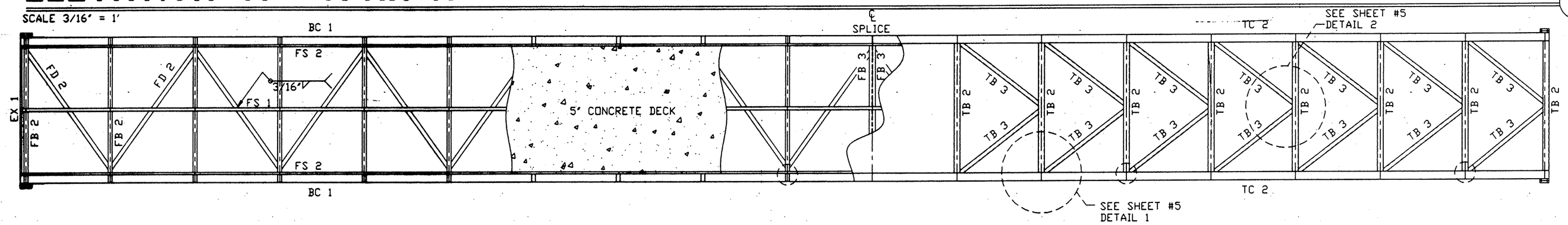


ELEVATION OF "SPAN A"

SCALE 3/16" = 1'

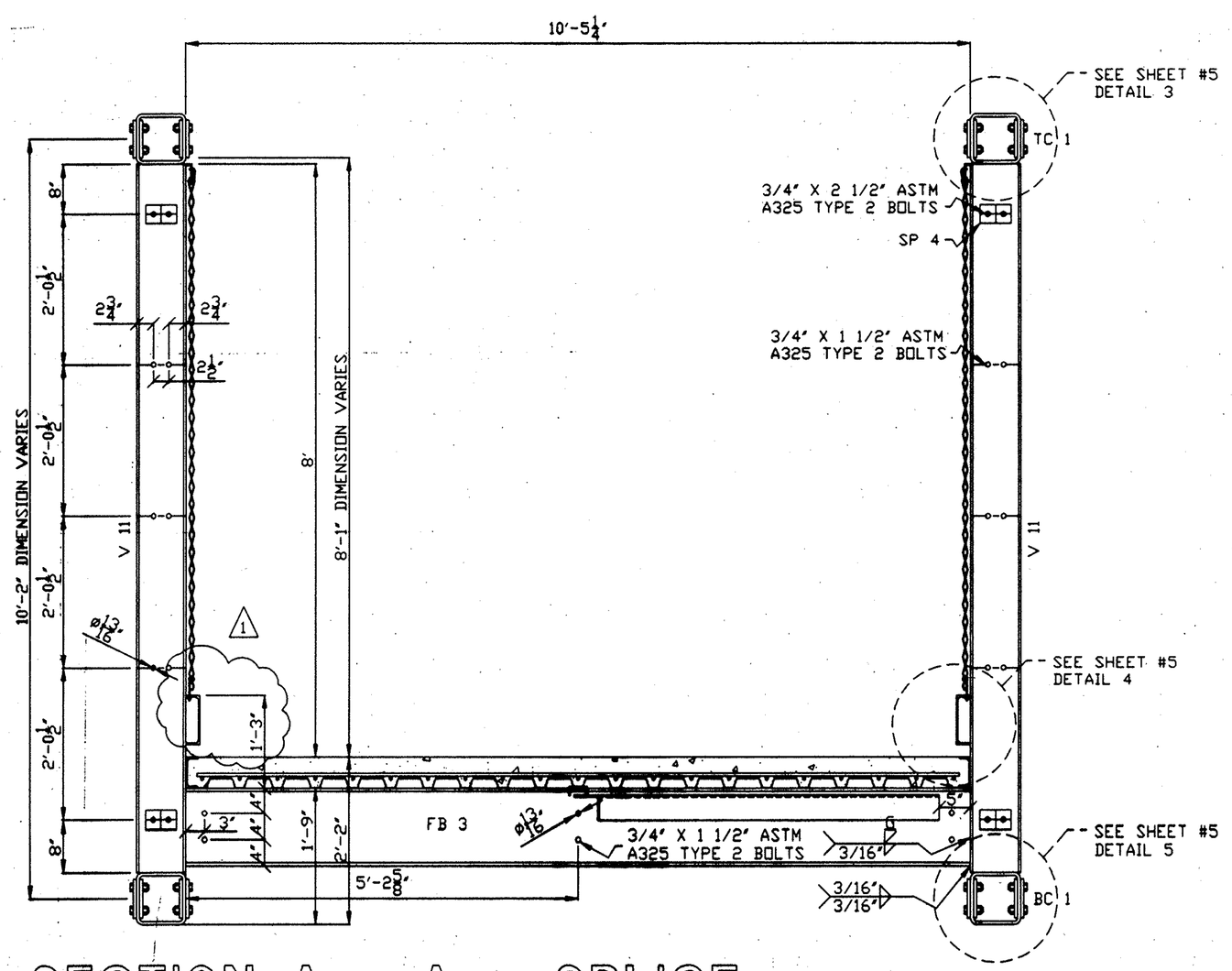
1



FLOOR PLAN OF "SPAN A"

SCALE 3/16" = 1'

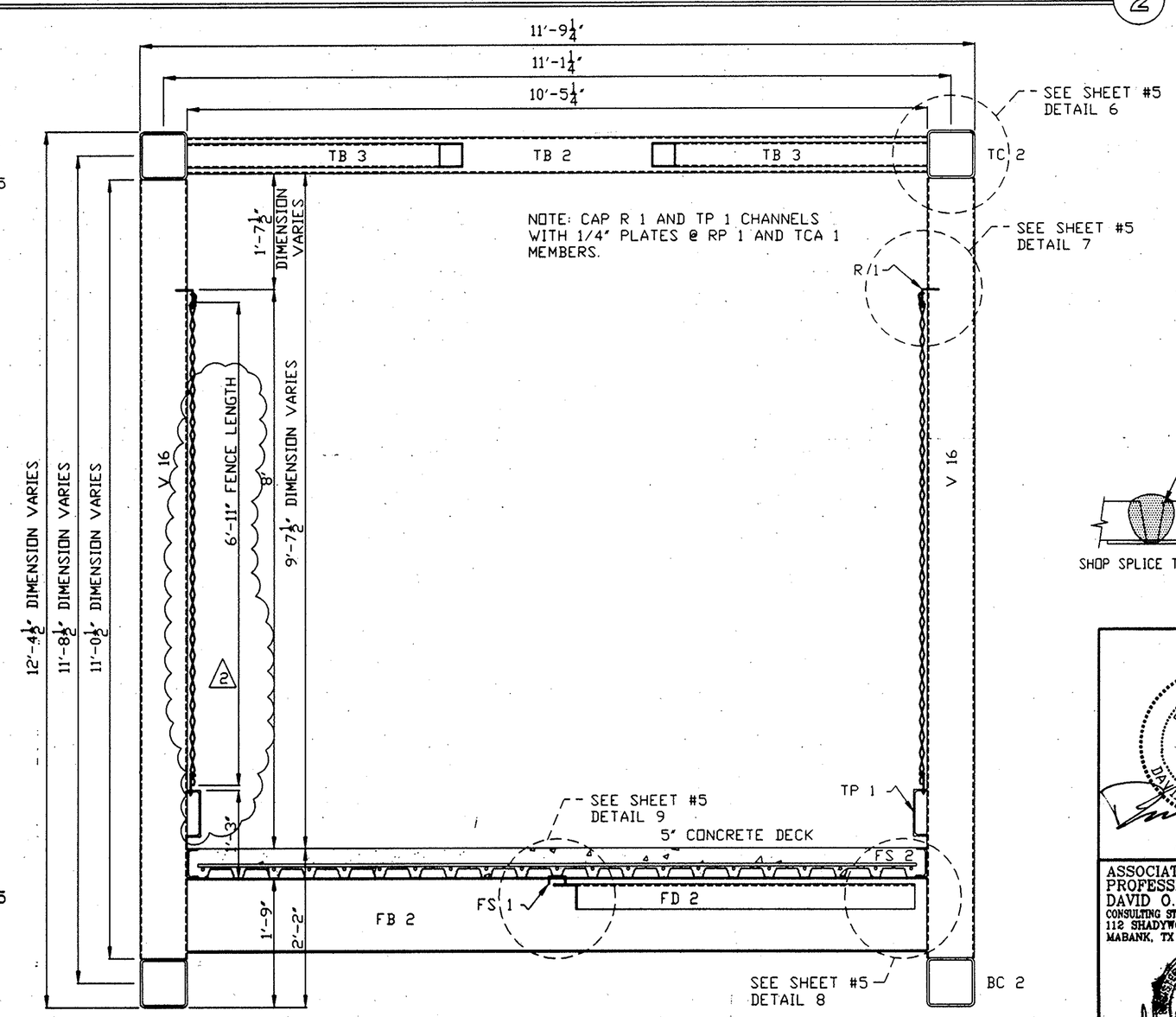
2



SECTION A - A @ SPLICE

SCALE 3/4" = 1'

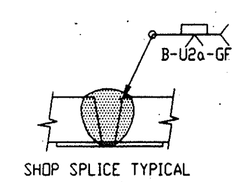
3



SECTION B - B

SCALE 3/4" = 1'

4



SHOP SPLICE TYPICAL

BILL OF MATERIALS

JOB: 991043 FOR: ORANGE COUNTY, CALIFORNIA (SPAN A)

STEEL ASTM WF-A572, A588 or A242; C&L-A36MOD (A529) A588 or A242; TUBE-A500, A847 or A606; PLATE-A588 or A242

	SHOP MARK	DESCRIPTION	FEET	INCHES	WEIGHT PER/FOOT	TOTAL	TOTAL LENGTH
	2	TCA 1	HSS 8" X 8" X 3/8"	12	3	37.69	923	25
	2	TC 1	HSS 8" X 8" X 1/2"	71	0	48.85	6927	142
	2	BC 1	HSS 8" X 8" X 1/2"	69	11 1/2	48.85	6835	140
	2	TC 2	HSS 8" X 8" X 3/8"	55	6 11/16	37.69	4188	111
	2	BC 2	HSS 8" X 8" X 3/8"	54	10	37.69	4133	110
SKEW CUTS	2	V 2	HSS 8" X 4" X 1/4"	1	1 3/8	19.02	42	2
V3= 7/8"	2	V 3	HSS 8" X 4" X 1/4"	2	5 1/16	19.02	92	5
V4= 13/16"	2	V 4	HSS 8" X 4" X 1/4"	3	7 9/16	19.02	138	7
V5= 3/4"	2	V 5	HSS 8" X 4" X 1/4"	4	9	19.02	181	10
V6= 11/16"	2	V 6	HSS 8" X 4" X 1/4"	5	9 1/4	19.02	220	12
V7= 5/8"	2	V 7	HSS 8" X 4" X 1/4"	6	8 7/16	19.02	255	13
V8= 9/16"	2	V 8	HSS 8" X 4" X 1/4"	7	6 1/2	19.02	287	15
V9= 1/2"	2	V 9	HSS 8" X 4" X 1/4"	8	3 1/2	19.02	315	17
V10= 3/8"	2	V 10	HSS 8" X 4" X 1/4"	8	11 3/8	19.02	340	18
V11= 7/16"	4	V 11	C 8 X 11.5	9	6 1/4	11.50	438	38
V12= 5/16"	2	V 12	HSS 8" X 4" X 1/4"	10	0	19.02	380	20
V13= 1/4"	2	V 13	HSS 8" X 4" X 1/4"	10	4 3/4	19.02	395	21
V14= 3/16"	2	V 14	HSS 8" X 4" X 1/4"	10	8 3/8	19.02	407	21
V15= 1/8"	2	V 15	HSS 8" X 4" X 1/4"	10	10 15/16	19.02	415	22
V16= 1/16"	2	V 16	HSS 8" X 4" X 1/4"	11	0 1/2	19.02	420	22
V17= 0	2	V 17	HSS 8" X 4" X 1/4"	11	1	19.02	422	22
V18= 1/16"	2	V 18	HSS 8" X 4" X 1/4"	11	0 1/2	19.02	420	22
RP 1= 1"	2	RP 1	HSS 8" X 4" X 1/4"	9	4 1/16	19.02	355	19
RP 2= 7/8"	2	RP 2	HSS 6" X 4" X 3/16"	7	11 3/16	11.97	190	16
RP 3= 7/8"	2	RP 3	HSS 6" X 4" X 3/16"	6	7 7/16	11.97	158	13
RP 4= 13/16"	2	RP 4	HSS 6" X 4" X 3/16"	5	4 7/8	11.97	129	11
RP 5= 3/4"	2	RP 5	HSS 6" X 4" X 3/16"	4	3 3/8	11.97	102	9
RP 6= 11/16"	2	RP 6	HSS 6" X 4" X 3/16"	3	3 1/16	11.97	78	7
RP 7= 5/8"	2	RP 7	HSS 6" X 4" X 3/16"	2	3 3/16	11.97	54	5
RP 8= 9/16"	2	RP 8	HSS 6" X 4" X 3/16"	1	5 5/8	11.97	35	3
RP 9= 1/2"	2	RP 9	HSS 6" X 4" X 3/16"		8 9/16	11.97	17	1
	2	D 2	HSS 4" X 4" X 3/16"	6	8	9.42	126	13
	2	D 3	HSS 4" X 4" X 3/16"	6	11 9/16	9.42	131	14
	2	D 4	HSS 4" X 4" X 3/16"	7	5 1/4	9.42	140	15
	2	D 5	HSS 4" X 4" X 3/16"	8	0 1/4	9.42	151	16
	2	D 6	HSS 4" X 4" X 3/16"	8	7 7/8	9.42	163	17
	2	D 7	HSS 4" X 4" X 3/16"	9	3 9/16	9.42	175	19
	2	D 8	HSS 4" X 4" X 3/16"	9	11	9.42	187	20
	2	D 9	HSS 4" X 4" X 3/16"	10	7 1/8	9.42	200	21
	2	D 10	HSS 4" X 4" X 3/16"	11	1 5/16	9.42	209	22
	2	D 11	HSS 4" X 4" X 3/16"	11	6 1/8	9.42	217	23
	2	D 12	HSS 4" X 4" X 3/16"	11	11 1/16	9.42	225	24
	2	D 13	HSS 6" X 4" X 3/16"	12	3 3/16	11.97	294	25
	2	D 14	HSS 6" X 4" X 3/16"	12	6 7/16	11.97	300	25
	2	D 15	HSS 6" X 4" X 3/8"	12	8 13/16	22.37	570	25
	2	D 16	HSS 6" X 4" X 3/8"	12	10 5/16	22.37	575	26
	2	D 17	HSS 6" X 4" X 3/8"	12	11	22.37	578	26
	2	D 18	HSS 6" X 4" X 3/8"	12	7 3/8	22.37	564	25
	2	EX 1	C 5 X 6.7	10	5 1/4	6.70	140	21
	1	FB 1	W 12 X 40	10	5 1/4	40.00	418	10
	17	FB 2	W 12 X 16	10	5 1/4	16.00	2839	177
	2	FB 3	C 12 X 20.7	10	5 1/4	20.70	432	21
	1	FD 1	L 4" X 4" X 1/4"	11	10 3/4	6.60	79	12
	17	FD 2	L 4" X 4" X 1/4"	12	3 1/2	6.60	1379	209
	1	FS 1	C 3 X 4.1	125	5 1/2	4.10	514	125
	2	FS 2	C 5 X 6.7	125	5 1/2	6.70	1681	251
		CONCRETE FLOOR						
	24	CFD	DECKING 3"WID	22	0	6.00	3168	528
		TOP BRACING						
	8	TB 2	HSS 6" X 4" X 3/16"	10	5 1/4	11.97	999	84
	14	TB 3	HSS 4" X 4" X 3/16"	8	2 5/8	9.42	1083	115
		PLATES						
	2	BP 1	PL 1'-0" X 1" A588	1	1 1/2	40.80	92	2
	2	BP 3	PL 9" X 1" A588	1	6	30.60	92	3
	8	SP 1	PL 6" X 1/2" A588	2	2	10.20	177	17
	8	SP 2	PL 6" X 1/2" A588	2	6	10.20	204	20
	8	SP 4	PL 3" X 1/2" A588		5	5.10	17	3
	2	GP 1	PL 10 3/4" X 3/8"	2	0	18.00	72	4
	2	GP 2	PL 8" X 3/8"		10 3/4	10.20	18	2
		SPLICE BOLTS						
	24	BOLTS	3/4" ASTM A325 TY3	0	1 1/2	1.50	5	3
	136	BOLTS	3/4" ASTM A325 TY3	0	2 1/2	2.50	71	28
		CHAIN LINK FENCE						
	2	R 1	L 3" X 2" X 1/4"	125	1 1/2	4.10	1026	250
1	2	TP 1	C 8 X 11.5	125	1 1/2	11.50	2875	250
	2	CP 1	PL 8" X 1/4" A588	0	4	6.81	5	1
	16	CP 2	PL 6" X 1/4" A588	0	4	5.10	27	5
	167	BOLTS	JBOLTS 1/4" WA/NUT	0	4	0.25	14	56
	167	HOOKS	FENCE HOOKS					
	52	ROD	3/8" ROD	10	0	0.38	198	520
2	6	CLF	6'-11" HI 1" 9GAVINYL	50	0	15.75	4725	300
		SHIPPED LOOSE						
	2	BP 2	PL 1'-0" X 1/2" A588	1	1 1/2	20.40	46	2
	2	BP 4	PL 9" X 1/2" A588	1	6	15.30	46	3
	2	PADS	11" X 1/8" TEFLON	1	1 1/2	0.25	1	2
	1	EXP 1	1/4" X 4 1/2" CHKPL	10	5 1/4	3.83	40	10
		TOTAL LIFTING WEIGHT					56691	

Rev	DESCRIPTION	BY/DATE	CHK'D BY
0	REVISED TOE PLATE, REMOVED LIGHT BRACKET 1/2" DDY	6/22/00	DAG
B	REVISED PER CUSTOMER COMMENTS DDY	5/26/00	
A	RELEASED FOR APPROVAL		

ALABAMA REGISTERED NO. 19851 PROFESSIONAL ENGINEER DAVID O. BURCH JR.
6/22/00

ASSOCIATED CONSULTANT & PROFESSIONAL ENGINEER
DAVID O. BURCH P.E.
CONSULTING STRUCTURAL & CIVIL ENGINEER
118 SHADYWOOD PL.
MABANK, TX 75147
6/27/00

STEADFAST BRIDGES®

A DIVISION OF BILTOLAST PRODUCTS INC.
119 40th St. NE
FORT PAYNE, AL 35967-8139
1-800-749-7515

ACTIVE MEMBER

PLACARD ATTACHED ON RIGHT END POST AT EACH END OF BRIDGE
STEADFAST BRIDGES
PEDESTRIAN TRAFFIC
LIGHT VEHICLE
MAXIMUM LOAD
5 TONS
BILTOLAST PRODUCTS INC
FORT PAYNE, ALABAMA
DATE OF MANUFACTURE
SERIAL #

JOB: 10'-5 1/4" X 223'-4" "KEYSTONE" BRIDGE
FOR: ORANGE COUNTY, CALIFORNIA
ADDRESS: RANCHO MISSION VIEJO, LLC
PO BOX 9
SAN JUAN CAPISTRANO, CA 92693
ARCHITECT: LAND CONCERN, LTD.
CONTRACTOR:
DESCRIPTION: LADERA RANCH PROJECT NO. 10-0367-12 (SPAN A)

DRAWN BY: 12/21/99 DDY
APP'D BY: RGG
CHECKED BY: DAG

THIS BRIDGE STRUCTURE SHALL NOT BE FIELD MODIFIED IN ANY WAY WITHOUT PRIOR APPROVAL FROM STEADFAST BRIDGES. THESE DRAWINGS AND DESIGNS ARE THE PROPERTY OF BILTOLAST PRODUCTS INC. AND ARE NOT TO BE COPIED OR USED IN ANY WAY DETRIMENTAL WITHOUT THEIR WRITTEN CONSENT.

DRAWING #: 991043-2 OF 5 REV. 0