DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
04	SF	80	13.2/13.9	69R3	1204

Robert E. Bethel
REGISTERED MECHANICAL ENGINEER

12-6-04
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER ROBERT E. BETHEL No. M018543 Exp. 9/30/06 MECHANICAL STATE OF CALIFORNIA

T.Y. LIN / MOFFATT & NICHOL
825 BATTERY STREET
SAN FRANCISCO, CA 94111

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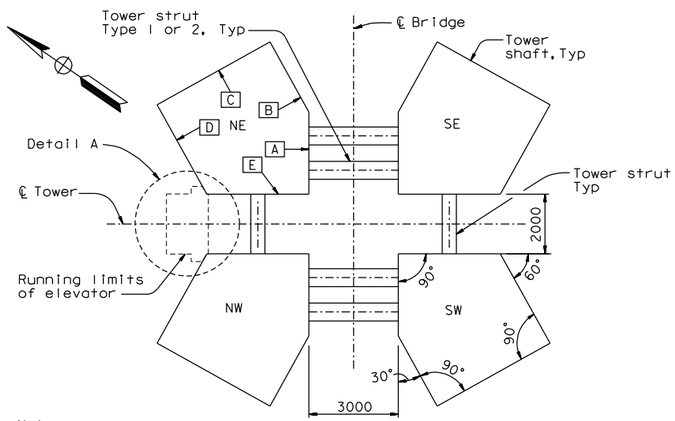
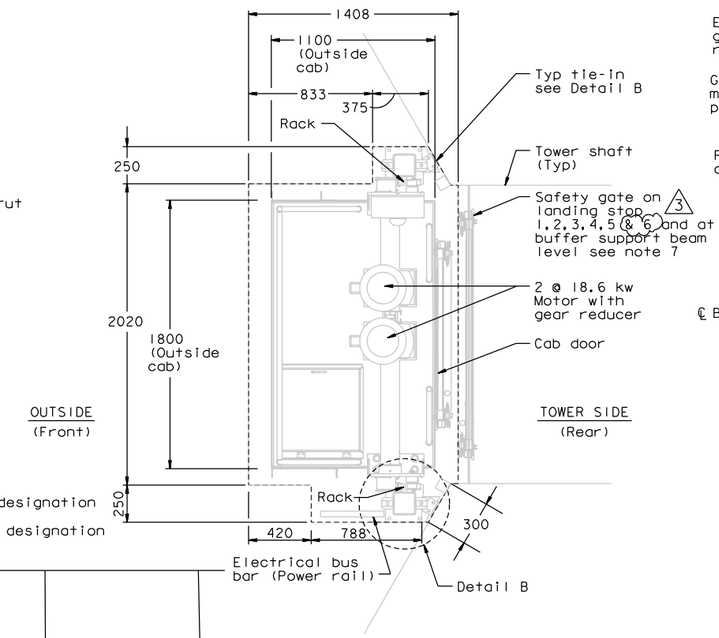


PLAN
1:100

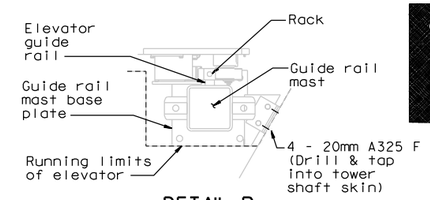
Notes:
1. For longitudinal elevation looking North see "Elevator Detail No. 2" Sheet.

LEGEND:
NE Northeast tower shaft designation
A Tower shaft skin plate designation

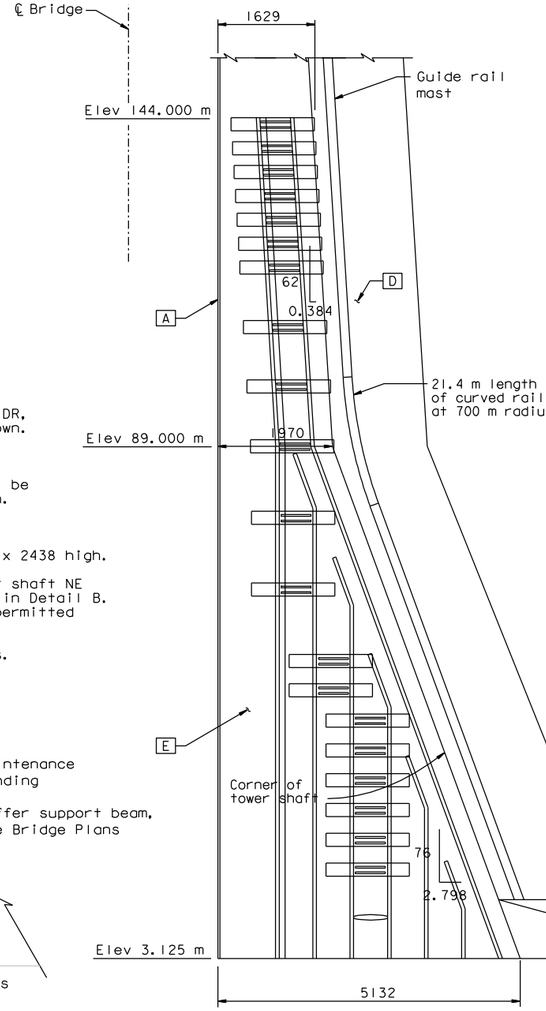


DETAIL A
1:20

NOTES:
1. Elevator to be USA Hoist Co., Inc. model 2000 DR, or approved equal, USA Hoist model 2000 DR shown.
2. Elevator to pass through running limits shown.
3. Elevator minimum clear inside dimensions shall be approximately 1676 wide x 965 deep x 2590 high.
4. Design wind velocity 190 km/hr at bridge deck.
5. Elevator minimum door size shall be 1475 wide x 2438 high.
6. Elevator guide rail mast shall attach to tower shaft NE & NW skin plate D only at the locations shown in Detail B. No supports, bracing or drive mechanisms are permitted between tower shafts.
7. For safety gate details see Special Provisions.



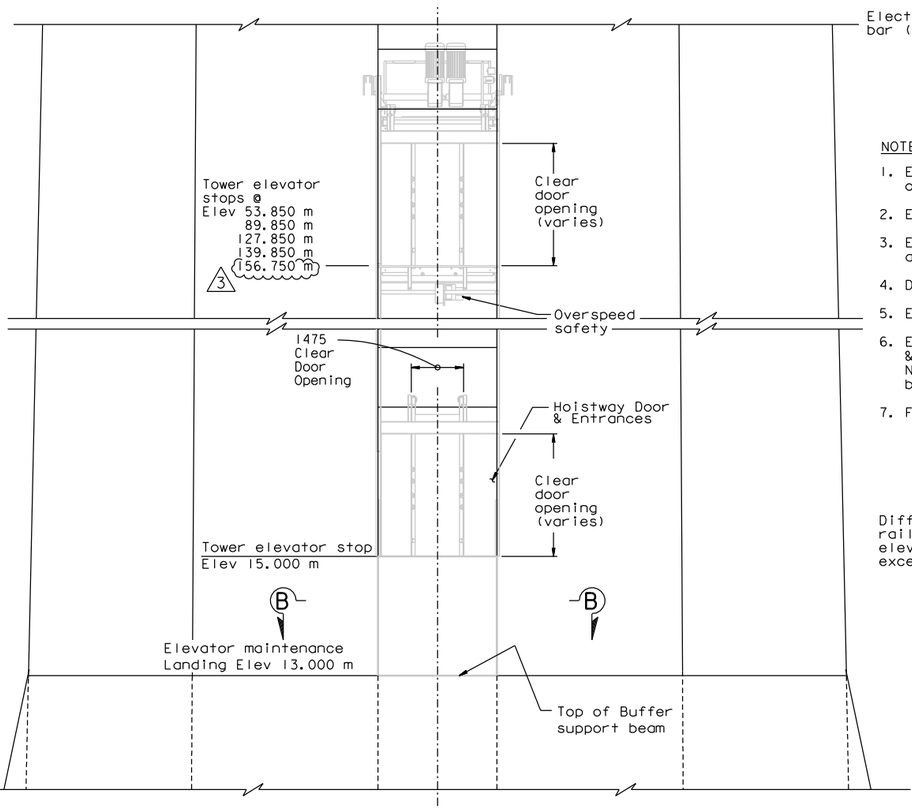
DETAIL B
(Plan Typ. Tie-In)
3048 max. Spacing
1:10



GUIDE RAIL GEOMETRY DEFINITION
Horiz=1:50
Vert =1:500

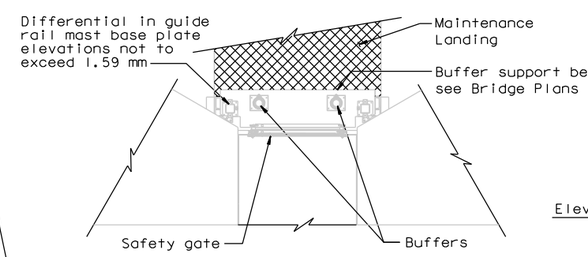
GENERAL DATA	
Model	2000 DR (USA Hoist Co.)
Classification	Rack & Pinion Elevator
Capacity	907 Kg
Speed	0.76 m/s
Car Weight	2948 Kg
Operation	Single Automatic Operation
Landing Served	1, 2, 3, 4, 5 & 6 3
Car & Hoistway Enclosure	
Car Safety	Rack & Pinion
Car/Hoistway Doors	Single vertical sliding panel /sliding door
Car Flooring/Roof	Aluminum Tread Plate
Car Walls-Exterior and Interior	Galvanized - G90 MCU Primer with Polysiloxane Top Coat (White) or Equal
Car Sled	Hot Dipped Galvanized
Car Glass Panels	Laminated Glass
Tower Tie-In	Hot Dipped Galvanized
Base Enclosure	Galvanized - G90
Buffer/Stroke	Spring Buffer/127 or Hydraulic Buffer/229
Governor/Trip Speed	210 fpm / 1.07 m/s
Machine Data	
Motor/Gear Box/Brake	90 Helical Bevel
Motor Kw	(2) 25HP / 18.6 Kw (Max Amp Operating Load Req. - 56.2)
Power Supply	480 Volts 100 A. 3 ph 60 Cy.
Guide Rail Mast (2 Each)	
Mast Section	TS 152 x 152 x 7.9 - A 500 Grade B
Mast Section Finish	Hot Dipped Galvanized
Mast Weight	113.4 Kg
Rack Material	AISI 1045 or Equiv.

Vertical Loads At Bottom Of Guide Rail Masts (KN)		
	Per Mast	Per Buffer
Load Case 1 (Safety Set)	118.50	0
Load Case 2 (Buffer Impact)	127.29	63.65
Load Case 3	168.20	
Seismic (1g)		0

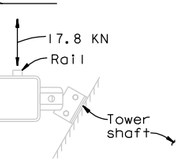


TOWER SIDE (CAB REAR) ELEVATION
Not To Scale

NOTES:
1. For tower shaft details, see Bridge Plans.
2. The elevator guide rail mast runs along the edge of tower shaft skin plate D
3. Details shown are for illustrative purposes only. Final design configuration and details, including guide rails and supports, are the responsibility of the elevator manufacturer.



SECTION B-B
(Plan at Buffer Support)
1:50



Horizontal Seismic Loads At Guide Rail Mast Tie-Ins

CONTRACT CHANGE ORDER NO. __
SHEET ____ OF ____

MARK	DATE	DESCRIPTIONS	BY	CH'D	CCO
3	11/04/11	TOWER ELEVATOR EXTENSION	JNB	FS	203S2
2	08/26/11	ELEVATOR DETAILS	JNB	FS	85
1	07/17/09	ELEVATOR DETAILS	JNB	FS	85

REVISIONS

REGISTERED PROFESSIONAL ENGINEER JAL BIRDY No. 41547 Exp. 12-31-13 CIVIL STATE OF CALIFORNIA

FOR REVISIONS 1, 2 & 3

ELEVATOR DETAIL NO. 1

ALL DIMENSION ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN

M-33

CALCULATED/ DESIGNED BY	ES	DATE 5/3/02	REVISED BY	JNB	4/21/09
CHECKED BY	RB	5/3/02	DATE REVISED		

DESIGN OVERSIGHT: Bob Zandipour

May 12, 2009

SAS STRUCTURE

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans

LAST REVISION 00-00-00

DATE PLOTTED => 04 NOV 2011
TIME PLOTTED => 08:33:17

FOR REDUCED PLANS ORIGINAL SCALE IS IN MILLIMETERS 0 20 40 60 80

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