

STANDARD LAYOUT DRAWING

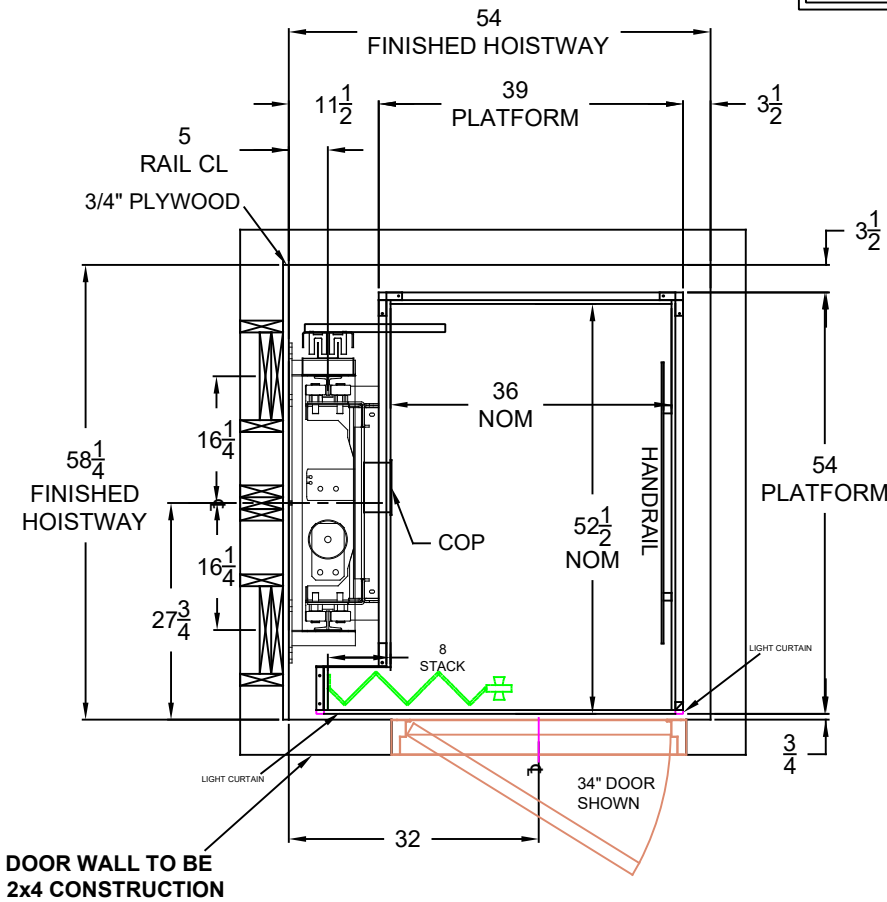
CLIENT: VEENSTRA DESIGN & FINE HOMES
PROJECT NAME: 1436 DRUMMOND LINE
JOB NUMBER: 20220834

ELMIRA RESIDENTIAL ELEVATOR
INTERIOR CAB DIMENSIONS: 36" x 52-1/2"
CAB DESIGN: LEFT INLINE CAB

REVISION HISTORY			
ISSUE	DATE	DESCRIPTION	DRAWN BY
A	25NOV2022	ORIGINAL DRAWINGS	AM
B	28MAR2023	CAB/GATE FINISH, LIGHTS, HANDRAIL, TRAVEL, PIT, O/H, M/R, ELEVATION	NR

CUSTOM JOB DETAILS:

- 2 PIECE JACK



WEIGHT CAPACITY: 1000 LBS
NUMBER OF STOPS: 4

TOTAL TRAVEL: 373"
PIT DEPTH: 15-1/2"

POWER SUPPLY: 220V SINGLE PHASE
MACHINE ROOM LOCATION: 300"

CLEAR OVERHEAD: 96-1/4"
CAB HEIGHT: 84" STANDARD HEIGHT
RAIL BRACKET STYLE: REGULAR

JACK: 80MM X 205" 2 PIECE
POWER UNIT: 3HP

CAB WALLS: OAK VENEER
CAB CEILING: OAK VENEER
CAB FLOOR: PLYWOOD W/ 3/4" RECESS

CAB LIGHTING: STANDARD LED LIGHTS (4)
HANDRAIL: 36" LONG X 1 1/2" WIDE
FIXTURE FINISH: STAINLESS STEEL
HALL CALLS: DUAL ILLUMINATED BUTTONS W/DPI
P.I. CHARACTERS: 1,2,3,4

ELMIRA
GATE FINISH: VISIFOLD CLEAR W/CLEAR PANELS
GATE HEIGHT: 84"
GATE STACK WIDTH: 5.5"
GATE TRACK CENTERLINE: 2" FROM PLATFORM EDGE
LIGHT CURTAIN - YES
AUTOMATIC GATE OPERATOR: NO
POWER LANDING DOORS: NO
DOOR SWINGS: ALL INTERIOR RH
DOOR INTERLOCKS: HONEYWELL RDI

DRAWING NOTES
CAMBRIDGE ELEVATING'S RECOMMENDED MINIMUM HOISTWAY REQUIREMENTS LAYOUT DRAWING FOR HOISTWAY CONSTRUCTION ONLY FINAL CAB LAYOUT MAY VARY
ALTHOUGH THE ELEVATOR IS DESIGNED TO MEET CSA-B44/ ANSI A17.1. LOCAL CODES MAY VARY. DEALER IS RESPONSIBLE FOR COMPLYING WITH LOCAL CODES
CAMBRIDGE ELEVATING INC. IS NOT RESPONSIBLE FOR THE STRUCTURAL DESIGN OF THE BUILDING AND ITS ABILITY TO SUPPORT THE ELEVATOR LOADS AND/OR REACTIONS
CAMBRIDGE ELEVATING INC. RESERVES THE RIGHT TO ALTER EQUIPMENT & HOISTWAY REQUIREMENTS WITHOUT NOTICE

PRODUCTION APPROVALS

THIS DRAWING REFLECTS OUR
INTERPRETATION OF THE INFORMATION
THAT WAS PROVIDED ON THIS PRODUCT'S
ORDER FORM AND EXACT ELEVATOR SITE
MEASUREMENTS
THIS INFORMATION IS YOUR RESPONSIBILITY
AND IS THE BASIS FROM WHICH THE
CUSTOM APPLICATION DESIGN IS
DERIVED. PLEASE INDICATE YOUR
REQUESTED ACTION BY CHECKING ONE OF
THE BELOW BOXES AND SIGNING BELOW TO
AUTHORIZE COMPLETION OF THIS ORDER.

- ☐ APPROVED WITH NO EXCEPTIONS. MANUFACTURE
THIS ELEVATOR PER INFORMATION ON THIS DRAWING
- ☐ APPROVED AS NOTED. MAKE CHANGES AS NOTED
BEFORE MANUFACTURE. NO RE-APPROVAL REQUIRED
- ☐ CHANGES AND REAPPROVAL REQUIRED
- PRINT NAME: _____ DATE: _____
- SIGNATURE: _____

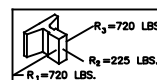
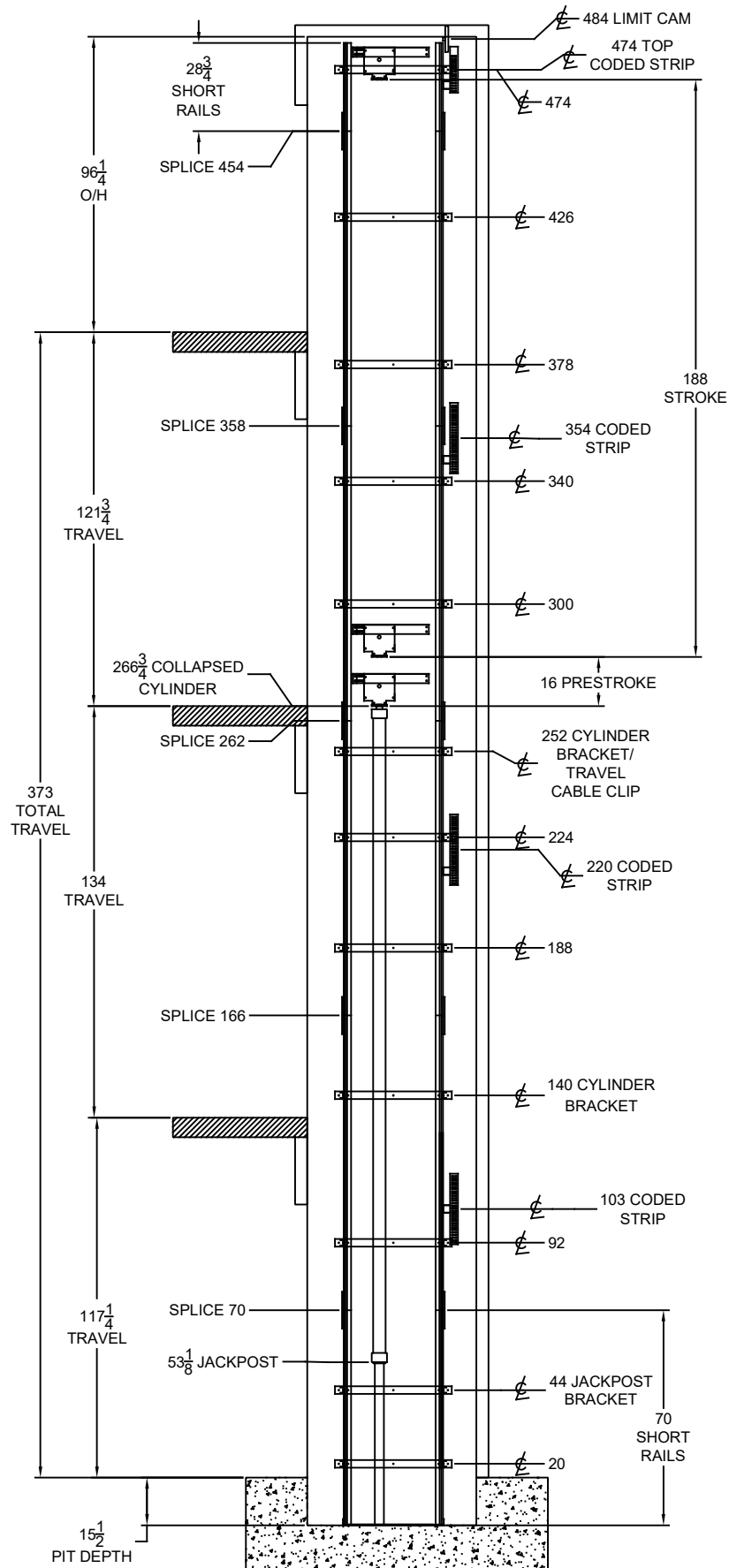
CAMBRIDGE
ELEVATING

HOISTWAY PLAN VIEW			
DEALER NAME: VEENSTRA DESIGN & FINE HOMES			
JOB NAME: 1436 DRUMMOND LINE			
JOB NO:	20220834	ISSUE:	B
DATE: 28MAR2023		DRAWN BY: NR	

STANDARD ELEVATION DRAWING

VEENSTRA DESIGN & FINE HOMES - 1436 DRUMMOND LINE

REVISION HISTORY			
NO.	DATE	DESCRIPTION	BY
1			
2			
3			
4			



CAMBRIDGE
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HOISTWAY ELEVATION

1436 DRUMMOND LINE

SIGNATURE:

RAIL WALL
MUST BE PLUMB (±1/8")
& SQUARE

20220834

28MAR2023
NR

B

SPECIFICATIONS

ROPED 1:2 HYDRAULIC DRIVE SYSTEM.

GALVANIZED AIRCRAFT CABLE
2 X 3/8" Ø 7 X 19 CONSTRUCTION
BREAKING LOAD: 14,388 LBS (64.0 KN)

80MM, 90MM OR 100MM HYDRAULIC CYLINDER

OPTICAL LEVELING SYSTEM

SLACK ROPE MACHINED SAFETY BLOCK WITH
INTEGRATED SAFETY SWITCH

ROLLER GUIDE SLING

2-SPEED 4 COIL VALVE POWER UNIT (SOFT
START & STOP AT EACH LANDING)

1" MANUAL SHUT-OFF VALVE, LOW PRESSURE
SWITCH, & LINE RUPTURE VALVE

0.20 M/S (40 FPM) TRAVEL SPEED-NOMINAL

3/5/10 HP POWER UNIT WITH SUBMERSED
MOTOR FOR QUIET OPERATION

L.E.D. DUAL COLOR ILLUMINATED PUSH
BUTTONS IN CAR OPERATING PANEL & HALL
CALLS

CAR OPERATING PANEL WITH INCORPORATED
DIGITAL POSITION INDICATOR, PHONE BOX, &
PHONE

AUTOMATIC ONE TOUCH CONTROLS

BATTERY BACK-UP FOR EMERGENCY
LIGHTING, EMERGENCY LOWERING AND DOOR
OPENING

PROVISIONS BY OTHERS

1) INTERIOR SURFACE OF HOISTWAY MUST BE PLUMB
FROM THE BOTTOM TO THE TOP OF THE HOISTWAY
WITHIN 1/8"

2) MACHINE ROOM AND HOISTWAY TO MEET
REQUIREMENTS OF LOCAL CODES

3) ELECTRICAL CONTRACTOR TO SUPPLY ONE
DEDICATED HIGH VOLTAGE CIRCUIT WITH GROUND - SEE
DATA TABLE AT THE BOTTOM OF STANDARD DETAILS 1
FOR SPECIFICATION. 10AWG WIRE RECOMMENDED

4) ELECTRICAL CONTRACTOR TO SUPPLY DEDICATED
120 VAC SINGLE PHASE 15 AMP WITH GROUND TO POWER
UNIT LOCATION. 12AWG WIRE RECOMMENDED

5) PROVIDE CONNECTION TO OUTSIDE PHONE LINE
FOR INTEGRATION INTO CAMBRIDGE ELEVATING
CONTROLLER (PHONE LINE ALREADY IN ELEVATOR
TRAVEL CABLE)

6) PROVIDE APPROPRIATE SLEEVES FOR BOTH
ELECTRICAL CONDUIT AND HYDRAULIC LINE FROM DRIVE
UNIT TO HOISTWAY

7) ONLY ELEVATOR MECHANICAL EQUIPMENT OR
WIRING TO BE IN THE HOISTWAY

8) SUITABLE LINTELS OVER LANDING ENTRANCES ARE
TO BE PROVIDED

9) PROVIDE PIT WATER PROOFING OR SUMP PUMP IF
NECESSARY

10) SOLID CORE LANDING DOORS PROVIDED BY OTHERS
FOR MODELS REQUIRING SWING DOORS

CAMBRIDGE
ELEVATING

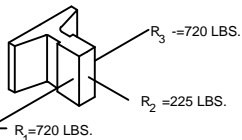
181 SHEARSON CRES
CAMBRIDGE, ONTARIO,
CANADA

SPECIFICATIONS & PROVISIONS
RESIDENTIAL ELEVATORS

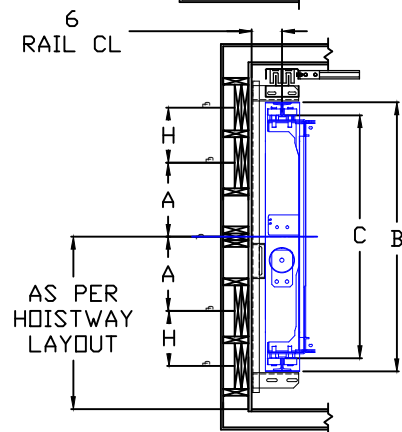
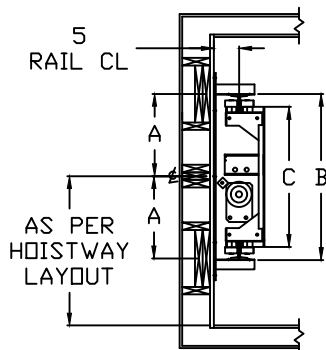
RAIL WALL CHANNEL ASSEMBLY

2x 2" X 6" FULL HEIGHT BETWEEN FLOORS
2x 2" X 12" FULL HEIGHT BETWEEN FLOORS
CHANNEL CONSTRUCTION
TYPICAL 2 PLACES
2x6 SCREWED TO 2x12
EVERY 6" WITH #10x3-1/2"
WOODSCREWS. CENTER
STUDDING FOR CENTER
REFERENCE ONLY. STUDS
CAN BE ALTERED

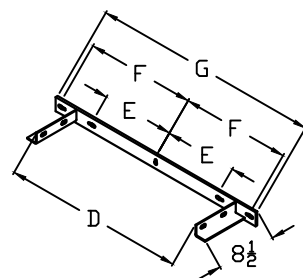
3/4" PLYWOOD SCREWED TO
STUDS EVERY 12" WITH
10 X 2-1/2" WOOD SCREWS
MINIMUM



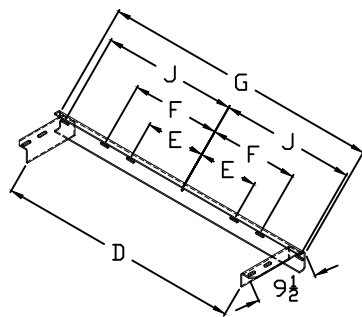
T RAIL 8LBS/FT



REGULAR & MINI RAIL
BRACKET GEOMETRY



LULA BRACKET / WIDE RAIL
BRACKET GEOMETRY

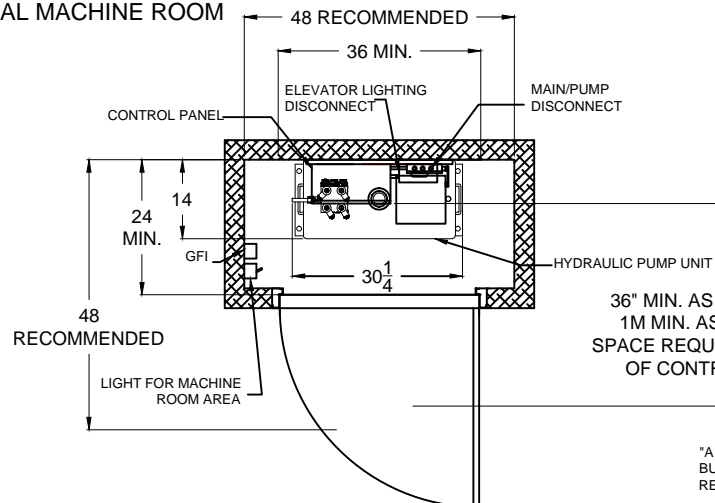


RAIL BRACKET	A	B BASEPLATE	C DBG	D	E	F	G	H	J
REGULAR	16 1/4	33	27 11/16	32 9/16	12 7/8	19 1/2	41	N/A	N/A
MINI	13 1/4	29	23 11/16	28 9/16	11	16	34	N/A	N/A
WIDE	16 1/4	53	48	52 7/8	13	19 1/2	61 1/2	12 1/8	29 1/2

CAMBRIDGE ELEVATING IS
NOT RESPONSIBLE FOR THE
STRUCTURAL DESIGN OF THE
BUILDING AND ITS ABILITY TO
SUPPORT THE ELEVATOR
LOADS AND/OR REACTIONS

LAG BRACKET TO RAIL WALL
PLYWOOD AND CHANNEL
CONSTRUCTION USING 5 X HEX LAG
SCREWS 3/8" X 3" LONG AS PER
VERTICAL SPACING SHOWN ON
ELEVATION DRAWING

TYPICAL MACHINE ROOM



TO BE LOCATED WITHIN 10 FEET OF
ELEVATOR SUPPORT WALL FOR LONGER
DISTANCES CONSULT CAMBRIDGE
ELEVATING

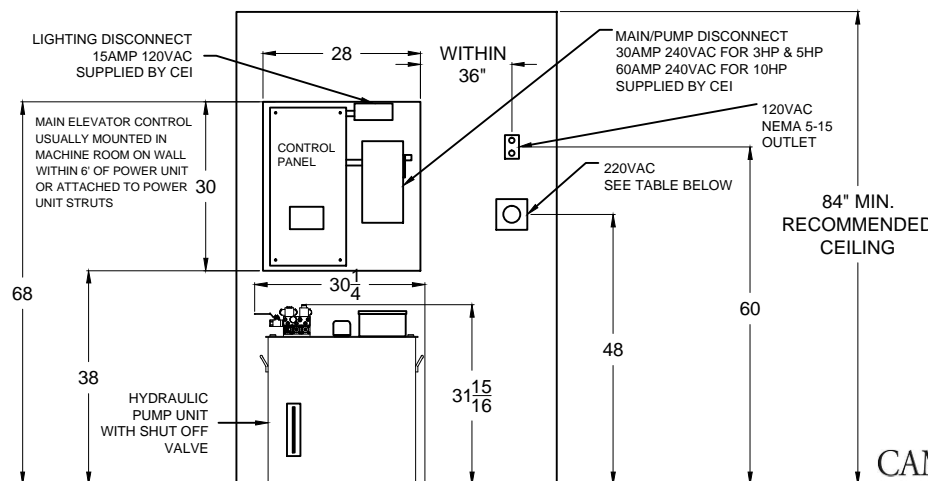
3HP / 5HP / 10HP, 220V/1/60Hz DRIVE MOTOR
208V/3/60Hz ALSO AVAILABLE

DISCONNECT SUPPLIED BY CEI. ON MAIN
ELEVATOR CONTROL PANEL

HYDRAULIC OIL
32 WEIGHT PREMIUM
CAPACITY 100L / 25 US GALLON MIN
ACCESS REQUIRED TO TOP OF UNIT FOR OIL
FILLING AND PIPING

36" MIN. AS PER N.E.C &
1M MIN. AS PER C.E.C
SPACE REQUIRED INFRONT
OF CONTROL PANEL

"A DEDICATED MACHINE ROOM IS RECOMMENDED
BUT NOT REQUIRED IN ONTARIO. FOR OTHER
REGIONS, CONSULT LOCAL AUTHORITIES."



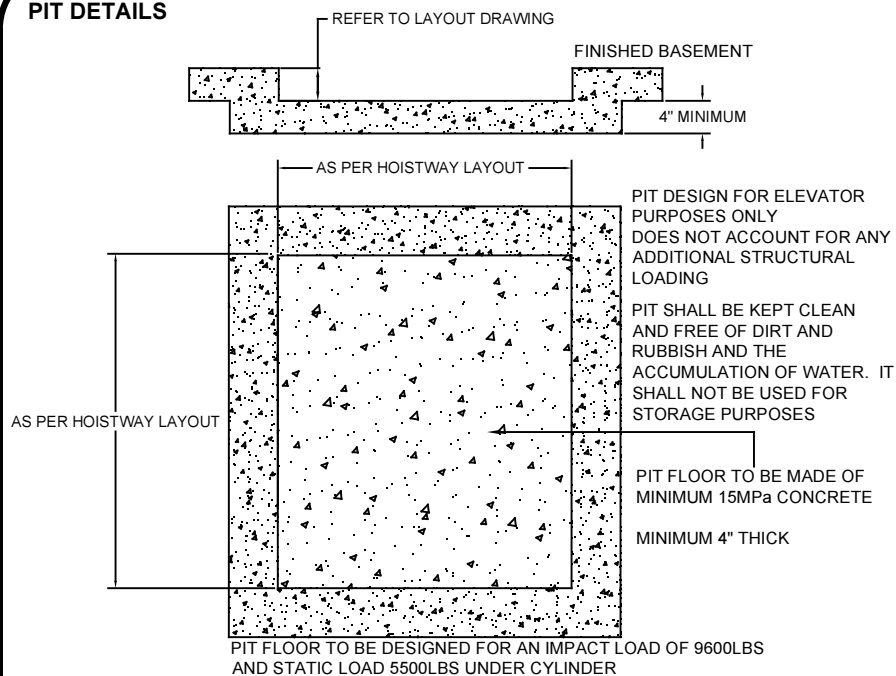
MOTOR POWER	PHASE	VOLTAGE	CIRCUIT CURRENT	FIELD PREPARATION
3 & 5HP	1	220VAC	30A	NEMA 14-30 OUTLET OR HARDWIRE
3 & 5HP	3	208VAC	30A	HARDWIRE
10HP	1	220VAC	60A MIN	HARDWIRE
10HP	3	208VAC	30A	HARDWIRE

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CAMBRIDGE, ONTARIO,
CANADA

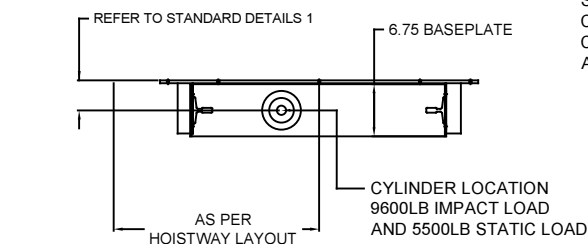
STANDARD DETAILS - 1
RESIDENTIAL ELEVATORS

PIT DETAILS



REINFORCING AND STRENGTH AS PER LOCAL STANDARDS AND CODES

BASEPLATE / EQUIPMENT LOADS



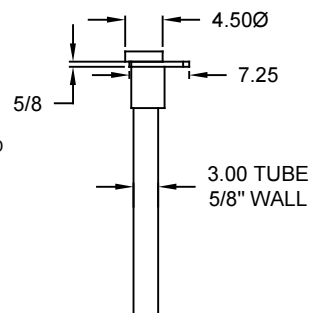
BASEPLATE
10 GAUGE MILD STEEL (HRS)
ZINC COATED

HELPS DISPLACE EQUIPMENT LOAD
ON TO PIT FLOOR

AFTER FINAL POSITIONING OF
SYSTEM
LAG BASEPLATE TO PIT FLOOR
USING 4 - 5/16"X2-1/4" ANCHORS

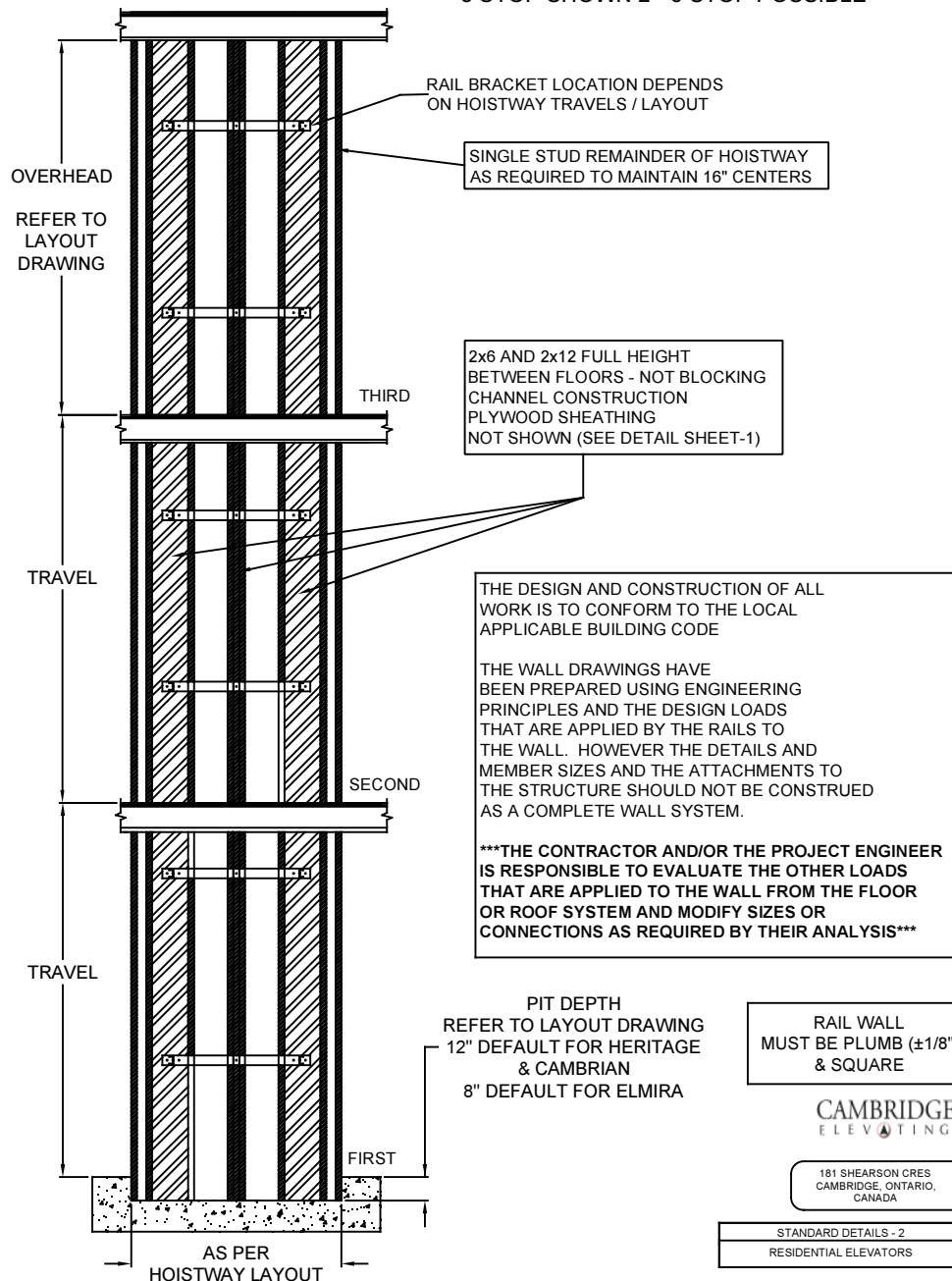
JACKPOST

SUPPORTS AND SECURES CYLINDER
CORRECTS DISTANCE OF TRAVEL
CAUSING CYLINDER TO TOP OUT NOT
ALLOWING EQUIPMENT TO LEAVE RAILS



ELEVATION

3 STOP SHOWN 2 - 6 STOP POSSIBLE



THE DESIGN AND CONSTRUCTION OF ALL
WORK IS TO CONFORM TO THE LOCAL
APPLICABLE BUILDING CODE

THE WALL DRAWINGS HAVE
BEEN PREPARED USING ENGINEERING
PRINCIPLES AND THE DESIGN LOADS
THAT ARE APPLIED BY THE RAILS TO
THE WALL. HOWEVER THE DETAILS AND
MEMBER SIZES AND THE ATTACHMENTS TO
THE STRUCTURE SHOULD NOT BE CONSTRUED
AS A COMPLETE WALL SYSTEM.

***THE CONTRACTOR AND/OR THE PROJECT ENGINEER
IS RESPONSIBLE TO EVALUATE THE OTHER LOADS
THAT ARE APPLIED TO THE WALL FROM THE FLOOR
OR ROOF SYSTEM AND MODIFY SIZES OR
CONNECTIONS AS REQUIRED BY THEIR ANALYSIS***

PIT DEPTH
REFER TO LAYOUT DRAWING
12" DEFAULT FOR HERITAGE
& CAMBRIAN
8" DEFAULT FOR ELMIRA

RAIL WALL
MUST BE PLUMB ($\pm 1/8"$)
& SQUARE

CAMBRIDGE
ELEVATING

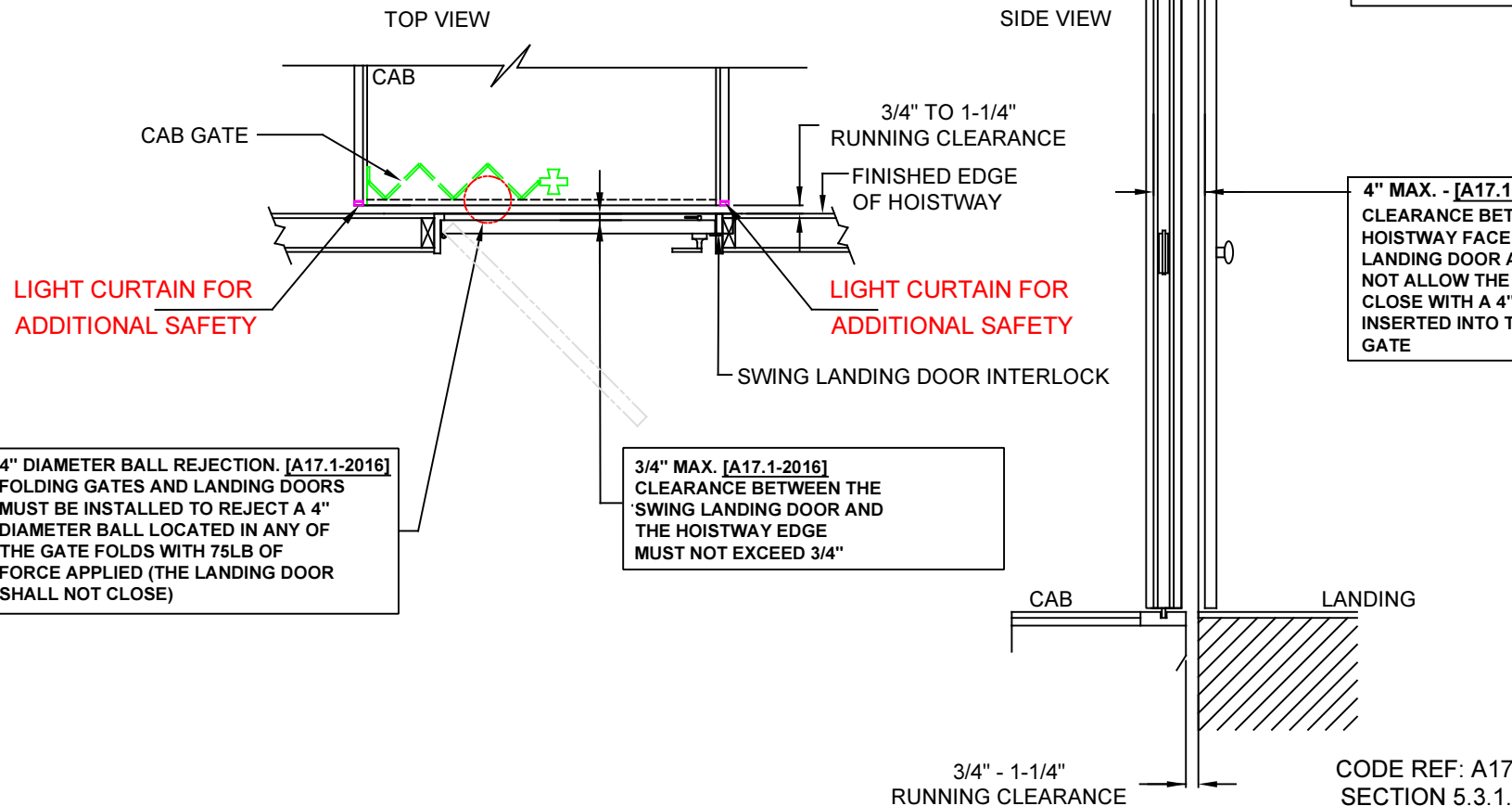
181 SHEARSON CRES
CAMBRIDGE, ONTARIO,
CANADA

STANDARD DETAILS - 2
RESIDENTIAL ELEVATORS

CAMBRIDGE ELEVATING SAFETY ENHANCED DOOR SYSTEM

ASME A17.1-2016 / B44-16

FOLLOWING THE DIAGRAM BELOW AND ADHERING TO THESE DIMENSIONS WILL AVOID HAVING A SPACE OF MORE THAN 4" BETWEEN THE HOISTWAY FACE OF THE SWING LANDING DOOR & THE CAB GATE. WITH THE ADDITION OF THE LIGHT CURTAIN, THIS SPACE IS FURTHER REDUCED AND THE ELEVATOR WILL NOT FUNCTION WITH THE LIGHT CURTAIN OBSTRUCTED.



CAMBRIDGE
ELEVATING INC.

181 SHEARSON CRES
CAMBRIDGE, ONTARIO

SAFETY ENHANCED
DOOR SYSTEM

ELMIRA MODEL WITH
ACCORDIAN GATE

IMPORTANT NOTE: SWING LANDING DOORS MUST BE OF SOLID CORE CONSTRUCTION

IMPORTANT NOTE: HOISTWAY MUST BE PLUMB WITHIN 1/8" TO ENSURE ADEQUATE GAPS / RUNNING CLEARANCE