

**APPLICATION FOR OSHPD PREAPPROVAL** 

## OFFICE OF STATEWIDE HEALTH PLANNING AND DEVELOPMENT **FACILITIES DEVELOPMENT DIVISION**

OFFICE USE ONLY

OF MANUFACTURER'S CERTIFICATION (OPM) APPLICATION #: OPM-0144-13
OSHPD Preapproval of Manufacturer's Certification (OPM)
Type: ☐ New ☐ Renewal ☐ Update to Pre-CBC 2013 OPA Number:
Manufacturer Information
Manufacturer: ArjoHuntleigh Inc.
Manufacturer's Technical Representative: Joe Sorci
Mailing Address: 2349 West Lake Street, Addison, IL 60101
Telephone: 630-785-4505 Email: Joe.Sorci@Getinge.com
Product Information OS DDd
Product Name: Maxi Sky Ceiling Lifts
Product Type: Patient Lifts
Product Model Number: Maxi Sky 440, 600, 1000, MS2, and MS2+oto
General Description: Patient lifts Overhead supported & Wall post supported
DATE: 02/09/2017
Applicant Information
Applicant Company Name: ArjoHuntleigh Inc. BUILDING
Contact Person: ArjoHuntleigh Inc.
Mailing Address: 2349 West Lake Street, Addison, IL 60101
Telephone: 630-785-4505 Email: Joe.Sorci@Getinge.com
I hereby agree to reimburse the Office of Statewide Health Planning and Development review fees in accordance with the California Administrative Code, 2016.
Signature of Applicant: Date: 9/22/2016
Title: Technical Specialist Company Name: ArjoHuntleigh Inc.

"Access to Safe, Quality Healthcare Environments that Meet California's Diverse and Dynamic Needs"







## OFFICE OF STATEWIDE HEALTH PLANNING AND DEVELOPMENT **FACILITIES DEVELOPMENT DIVISION**

Registered Design Professional Preparing Engineering Recommendations					
Company Name: Degenkolb Engineers					
Name: Robert Graff California License Number: SE 5113					
Mailing Address: 235 Montgomery St, Suite 500, San Francisco CA 94104					
Telephone: 415-392-6952 Email: rgraff@degenkolb.com					
OSHPD Special Seismic Certification Preapproval (OSP)					
<ul> <li>□ Special Seismic Certification is preapproved under OSP- (Separate application for OSP is required)</li> <li>□ Special Seismic Certification is not preapproved</li> </ul>					
Certification Method(s)					
☐ Testing in accordance with: ☐ ICC-ES AC156 ☐ FM 1950-16 ☐ Other* (Please Specify):					
OPM-0144-13					
*Use of criteria other than those adopted by the California Building Standards Code, 2016 (CBSC 2016) for component supports and attachments are not permitted. For distribution system, interior partition wall, and suspended ceiling seismic bracings, test criteria other than those adopted in the CBSC 2016 may be used when approved by OSHPD prior to testing.					
Analysis DATE: 02/09/2017					
Experience Data  Combination of Tasting Analysis and/or Experience Data (Please Specify):					
Combination of Testing, Analysis, and/or Experience Data (Please Specify):					
List of Attachments Supporting the Manufacturer's Certification					
<ul> <li>☐ Test Report</li> <li>☐ Drawings</li> <li>☐ Calculations</li> <li>☐ Manufacturer's Catalog</li> <li>☐ Other(s) (Please Specify): Manufacturer product info provided within the calculation package.</li> </ul>					
OFFICE USE ONLY – OSHPD APPROVAL VALID FOR CBC 2016 & ALL PRE-2016 CODE BASED PROJECTS					
Signature:					
Print Name:					
Title: SSE					
Condition of Approval (if applicable):					

"Access to Safe, Quality Healthcare Environments that Meet California's Diverse and Dynamic Needs"





#### **GENERAL NOTES**

#### I. GENERAL

- THIS OSHPD PRE-APPROVAL OF MANUFACTURE'S CERTIFICATION (OPM) IS BASED ON THE CBC 2016. THE DEMAND (DESIGN FORCES) FOR USE WITH THIS OPM SHALL BE BASED ON THE CBC 2016.
- 2. THIS PRE-APPROVAL IS VALID FOR THE EQUIPMENT DESCRIBED IN THESE DRAWINGS THROUGHOUT THE STATE OF CALIFORNIA, AND IS VALID FOR EQUIPMENT INSTALLED AT ANY HEIGHT WITHIN THE BUILDING.

## II. RESPONSIBILITIES OF THE STRUCTURAL ENGINEER OF RECORD

- VERIFY MATERIALS AND WORKMANSHIP TO CONFORM WITH THE 2016 EDITION OF THE CALIFORNIA BUILDING CODE AND THE REQUIREMENTS OF THIS PRE-APPROVAL DOCUMENT.
- 2. VERIFY THE ADEQUACY OF THE EXISTING FRAMING TO SUPPORT THE LOADS INDICATED HEREIN, IN ADDITION TO ALL OTHER LOADS.

HOIT TO THE OTTIENT ESTABOL					
Structural Loading (lbs)*					
		Lift Type			
	440	660	1000	MS2	MS2+
T <sub>hanger</sub>	1405 1646 2192 1386 2208				
T <sub>brace</sub>	615	655	711	651	989
V <sub>brace</sub>	615   655   711   651   989				
Weight Lbs	14	28	48	27	114
Capacity Lbs		600	1000	600	1000
* Loading is worst ca	* Loading is worst case of crane and Omega Seismic Forces				

SEE SECTION 1/S3 FOR LOADING

- 3. VERIFY ANCHORS ARE ADEQUATE DISTANCES FROM OPENINGS AND EDGES OF SLABS.
- 4. VERIFY ANCHORS ARE ADEQUATE DISTANCES FROM NEW OR EXISTING ANCHORS.
- DESIGN ANY SUPPLEMENTARY MEMBER AND THEIR ATTACHMENTS OTHER THAN THOSE DETAILED WITHIN THIS PRE-APPROVAL.
- 6. VERIFY THE EQUIPMENTS WEIGHT, LOCATION. ANCHOR LOCATIONS AND ANCHOR DETAILS AGREE WITH THE INFORMATION SHOWN IN THIS PRE-APPROVAL.

#### III. STRUT FRAMING

- 1. CHANNEL FRAMING COMPONENTS AND CONNECTORS MANUFACTURED BY MASON WEST CORPORATION. SEE SHEET S9.
- 2. CHANNEL FRAMING TO CONFORM TO ASTM A1011 SS, GRADE 33
- 3. INSTALL BRACING WITH NO MORE THAN 5 DEGREE +/- PLAN DEVIATION
- 4. STRUT TYPE: SOLID SECTIONS ONLY.

### IV. MECHANICAL ANCHORS

- 1. WEDGE ANCHORS INTO CONCRETE: USE ZINC PLATED CARBON STEEL HILTI KB-TZ (ICC ESR-1917 ISSUED MAY 2015. INSTALL ANCHORS IN ACCORDANCE WITH ICC REPORT
- 2. IF REINFORCEMENT IS ENCOUNTERED DURING DRILLING, ABANDON AND SHIFT THE HOLE LOCATION TO AVOID THE REINFORCEMENT. PROVIDE A MINIMUM OF 2 ANCHOR DIAMETERS OR 1 INCH, WHICHEVER IS LARGER, OF SOUND CONCRETE BETWEEN THE DOWEL AND THE ABANDONED HOLE. FILL THE ABANDONED HOLE WITH NON-SHRINK GROUT APPROVED BY THE ENGINEER OF RECORD. NOTIFY THE ENGINEER OF RECORD IF ANY REINFORCING IS DAMAGED.
- ANCHORS WILL BE PROOF-TESTED BY OWNER'S TESTING AND INSPECTION AGENCY. WITH A REPORT OF THE TEST RESULTS SUBMITTED TO OSHPD.
- 4. IF ANY ANCHOR FAILS TESTING, REPLACE ANCHOR AND TEST ADDITIONAL ANCHORS OF THE SAME CATEGORY NOT PREVIOUSLY TESTED UNTIL TWENTY (20) CONSECUTIVE PASS. THEN RESUME INITIAL TESTING FREQUENCY.
- 5. TEST ANCHORS NO SOONER THAN 24 HOURS AFTER INSTALLATION.

<u>Degenkolb</u>

- 3. TEST 50% WEDGE ANCHORS PER THE FOLLOWING METHOD:
- A. TORQUE WRENCH METHOD: TEST ANCHORS TO THE TORQUE LOAD INDICATED IN THE TABLE BELOW WITHIN THE FOLLOWING LIMITS:
   1. ONE-HALF TURN OF THE NUT.

	WEDGE
ANCHOR DIA. (IN)	TORQUE LOAD (FT-LBS)
3/8	25
1/2	40
5/8	60

#### V. ROUGH CARPENTRY

- FRAMING LUMBER: DOUGLAS FIR (COAST REGION) GRADED AND MARKED IN ACCORDANCE WITH THE STANDARD GRADING RULES NO. 17 OF THE WEST COAST LUMBER INSPECTION BUREAU (W.C.L.I.B.) OR WESTERN LUMBER GRADING RULES, OF THE WESTERN WOOD PRODUCTS ASSOCIATION (W.W.P.A.). USE LUMBER WITH A MINIMUM GRADE OF D.F. #1.
- 2. ROUGH HARDWARE:
  - A. NAILS: COMMON WIRE NAILS, ASTM F1667, STANDARD LENGTHS U.O.N. USE HOT-DIPPED ZINC-COATED GALVANIZED NAILS WHEN PENETRATING PRESSURE TREATED OR FIRE-RETARDANT LUMBER.
  - B. BOLTS AND THREADED RODS: ASTM A307, SQUARE OR HEXAGONAL HEAD MACHINE BOLTS WITH ASTM A563 NUTS. USE MALLEABLE IRON WASHERS UNDER HEAD AND NUT WHEN IN CONTACT WITH WOOD.
  - C. LAG SCREWS: ASTM A307, ANSI/ASME STANDARD B18.2.1. USE ANSI B18.22.1 WASHERS UNDER HEAD WHEN IN CONTACT WITH WOOD.
  - D. SCREWS: ASTM A307, ANSI/ASME STANDARD B18.6.1. USE CADMIUM-PLATED PAN OR ROUND HEADED SCREWS AT STEEL TO WOOD AND WOOD TO WOOD CONNECTIONS.
  - E. MISCELLANEOUS STEEL: ASTM A36.

#### 3. BOLT INSTALLATION:

- A. DRILL BOLT HOLES A MAXIMUM OF 1/16 INCH LARGER IN DIAMETER THAN THE BOLT NOMINAL DIAMETER.
- B. DRILL PRE-BORED LEAD HOLES FOR LAG SCREWS AS FOLLOWS.
- DRILL LEAD HOLE FOR THE SHANK TO A DEPTH EQUAL TO THE CENGTH OF THE UNTHREADED PORTION IN THE MAIN MEMBER. USE A DRILL BIT OF THE SAME DIAMETER AS THE LAG SCREW.
- EXTEND THE LEAD HOLE FOR THE THREADED PORTION OF THE LAG SCREW WITH A DRILL BIT WHOSE DIAMETER IS 60 PERCENT OF THE NOMINAL LAG SCREW DIAMETER.
- 3. INSERT LAG SCREW INTO LEAD HOLE BY TURNING. DO NOT DRIVE WITH A HAMMER.
- 4. LUBRICATE WITH SOAP OR BEESWAX TO FACILITATE INSTALLATION.

## VI. STRUCTURAL STEEL BUILDING

1. STRUCTURAL STEEL TO CONFORM TO THE FOLLOWING UNLESS OTHERWISE NOTED:

SECTIONS	TYPE
COLD FORMED HOLLOW STRUCTURAL SECTION (HSS)	ASTM A500 GRADE B
MACHINE BOLTS	ASTM A307
THREADED AND HANGER ROD	ASTM A36, A307 OR A193 GR B7
NUTS FOR BOLTS AND MACHINE BOLTS	ASTM A563
PLAIN WASHERS	ANSI B18.22.1

2. HOT DIPPED GALVANIZED IN ACCORDANCE WITH ASTM A123 AND ASTM A153 STRUCTURAL STEEL AND FASTENERS THAT ARE PERMANENTLY EXPOSED TO WEATHER.

#### VII. STRUCTURAL TESTS, INSPECTIONS, AND OBSERVATIONS

- AN INDEPENDENT TESTING AGENCY AND SPECIAL INSPECTORS WILL BE RETAINED BY THE OWNER TO PERFORM THE FOLLOWING TESTS AND INSPECTION. PROVIDE ACCESS AND FURNISH SAMPLES TO THE AGENCY AS REQUIRED.
- THE FOLLOWING ITEMS REQUIRE TESTS AND INSPECTIONS IN ACCORDANCE WITH THE REQUIREMENTS OF THE CHAPTER "STRUCTURAL TESTS AND INSPECTIONS" OF THE CODE.
- 3. MECHANICAL ANCHORS:
  - A. VERIFY TYPE OF ANCHOR, ANCHOR DIMENSIONS, CONCRETE TYPE AND COMPRESSIVE STRENGTH, PREDRILLED HOLE DIMENSIONS, ANCHOR SPACING, EDGE DISTANCE, SLAB THICKNESS AND ANCHOR EMBEDMENT.
  - B. PROOF-TEST AS INDICATED IN THE MECHANICAL ANCHORS SECTION OF THESE GENERAL NOTES.

#### VIII. DESIGN CRITERIA

- 1. APPLICABLE CODE: 2016 CALIFORNIA BUILDING CODE.
- 2. SEISMIC DESIGN:

SEISMIC FORCE F = 3.00 Wp Ev = 0.50 Wp

WHERE: Sds = 250% G

WORST CASE ACCEL.

Ip = 1.5 FOR NON-ESSENTIAL EQUIP.

Z/h= 1.0 FOR ANY FLOOR

 CRANE LOADING PER AISC TRANSVERSE LOADING = 0.2 (DL+LL) LONGITUDINAL LOADING = 0.1 (DL+LL)

#### IX. HOW TO USE THIS PRE-APPROVAL

- 1. REVIEW AND UNDERSTAND ALL GENERAL NOTES AND FIGURES BEFORE PROCEEDING.
- 2. FOR THE SELECTED MAXISKY UNIT, DETERMINE THE TRACK LAYOUT AND DIMENSIONS.
- 3. BASED ON THE TRACK LAYOUT AND DIMENSIONS, DETERMINE THE APPROPRIATE TRACK, THE TRACK BRACING, AND TRACK HANGER REQUIREMENTS FROM THE TABLES ON SHEET S2.
- 4. DETERMINE THE MAXIMUM DEMANDS ON THE EXISTING STRUCTURE FROM THE NEW UNIT FROM THE TABLE ON SHEET S2, AND VERIFY THE ADEQUACY OF THE EXISTING STRUCTURE WITH THE ENGINEER OF RECORD FOR THE BUILDING.

#### SHEET LIST

S1 GENERAL NOTESS2 TRACK ELEVATION

**GENERAL NOTES** 

S5 HANGER CONNECTION DETAILSS6 BRACE CONNECTION DETAILS

Rp = 1.5 LOW DEFORMATION

ap = 1.0 RIGID COMPONENT

 $\Omega = 1.5$ 

S3 TRACK SECTIONS

S7 BRACE CONNECTION DETAILS

S4 HANGER CONNECTION DETAILS S8 WALL POST

S9 STRUT PARTS SHEET

S10 ARJOHUNTLEIGH PARTS SHEET

ARJOHUNTLEIGH MAXISKY CEILING LIFTS MODELS 440, 600, 1000, MS2 & MS2+

Sheet Numbe

**S**1

OF Sheets

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 MSA
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 B6535007.00

 Design:
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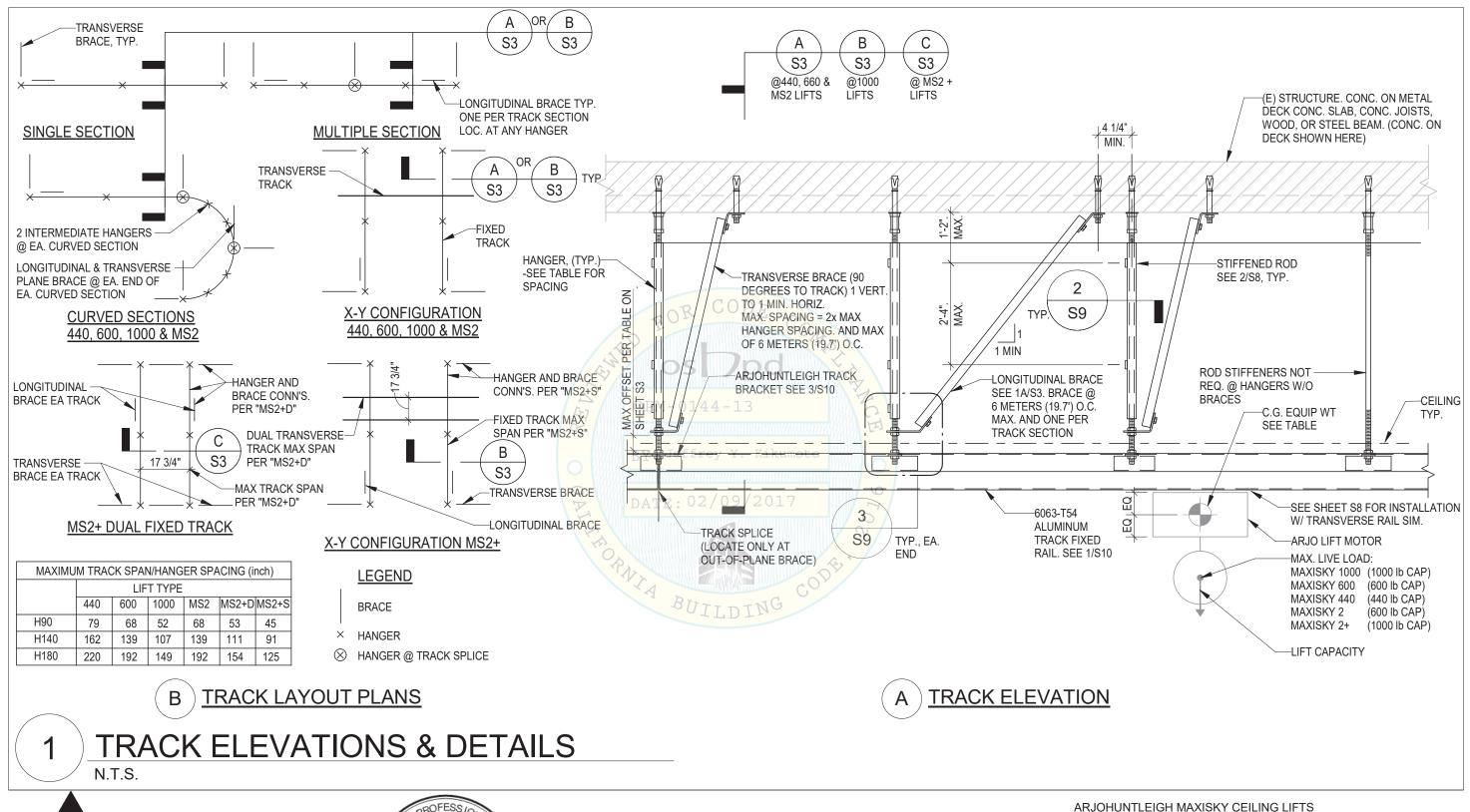
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 08/07/2014

7.00 \_\_\_\_\_

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**DEGENKOLB ENGINEERS** 









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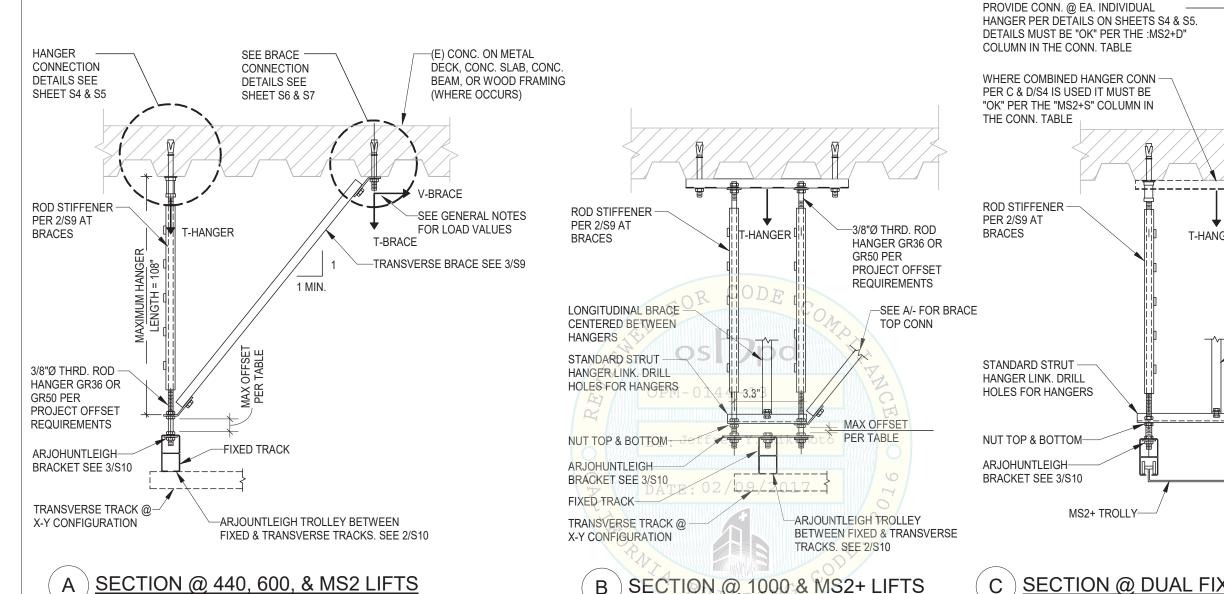
TRACK ELEVATION

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Sheet Number

S2

OF Sheets
Page 4 of 12



	HANGER PER DETAILS ON SHEETS S4 & S5. DETAILS MUST BE "OK" PER THE :MS2+D" COLUMN IN THE CONN. TABLE	
	WHERE COMBINED HANGER CONN PER C & D/S4 IS USED IT MUST BE "OK" PER THE "MS2+S" COLUMN IN THE CONN. TABLE	
	ROD STIFFENER PER 2/S9 AT BRACES T-HANGER	-3/8"Ø THRD. ROD HANGER GR36 OR GR50 PER PROJECT OFFSET REQUIREMENTS -LONGITUDINAL BRACED
CE		CENTERED BETWEEN HANGERS
	STANDARD STRUT—HANGER LINK. DRILL HOLES FOR HANGERS	SEE A/- FOR BRACE TOP CONN, TYP
		MAX OFFSET PER TABLE
	ARJOHUNTLEIGH BRACKET SEE 3/S10	-NUT T&B
	MS2+ TROLLY—	-DUAL FIXED TRACKS REFER TO "MS2+D" IN TABLES

SECTION @ 1000 & MS2+ LIFTS

SECTION @ DUAL FIXED TRACKS MS2+ LIFTS

MAX HANGER OFFSET				
LIFT	HANGER ROD GRADE			
TYPE	A36 A307 A193 B7			
440	0	5/8	1 3/8	
600	0	1/2	1 1/8	
MS2	0	3/4	1 3/4	
1000	0	1/2	1 1/8	
MS2 + Dual	0	7/8	1 7/8	
MS2 + Single	0	5/8	1 1/4	

TRACK SECTIONS N.T.S.



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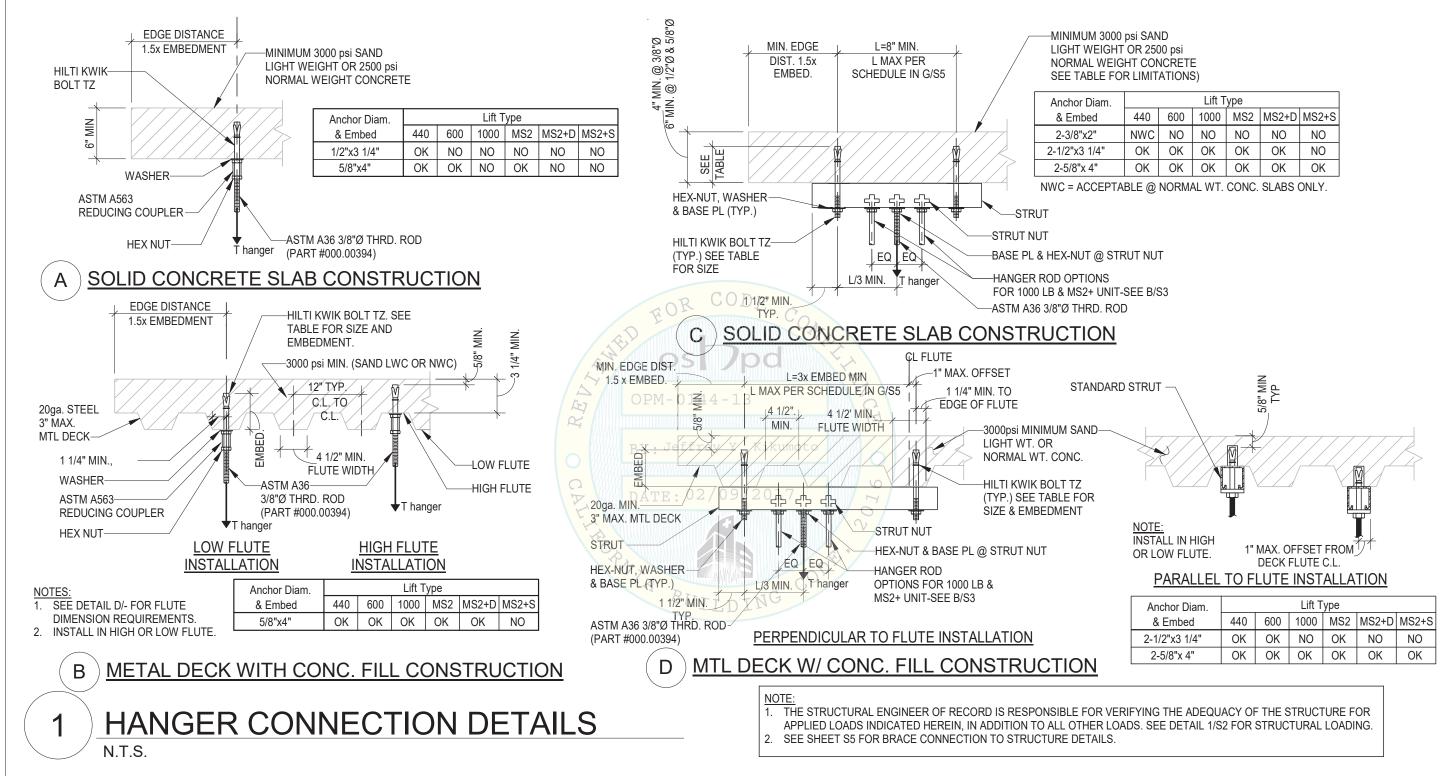
ARJOHUNTLEIGH MAXISKY CEILING LIFTS MODELS 440, 600, 1000, MS2 & MS2+ TRACK SECTION

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**S**3

OF Sheets Page 5 of 12







ARJOHUNTLEIGH MAXISKY CEILING LIFTS MODELS 440, 600, 1000, MS2 & MS2+

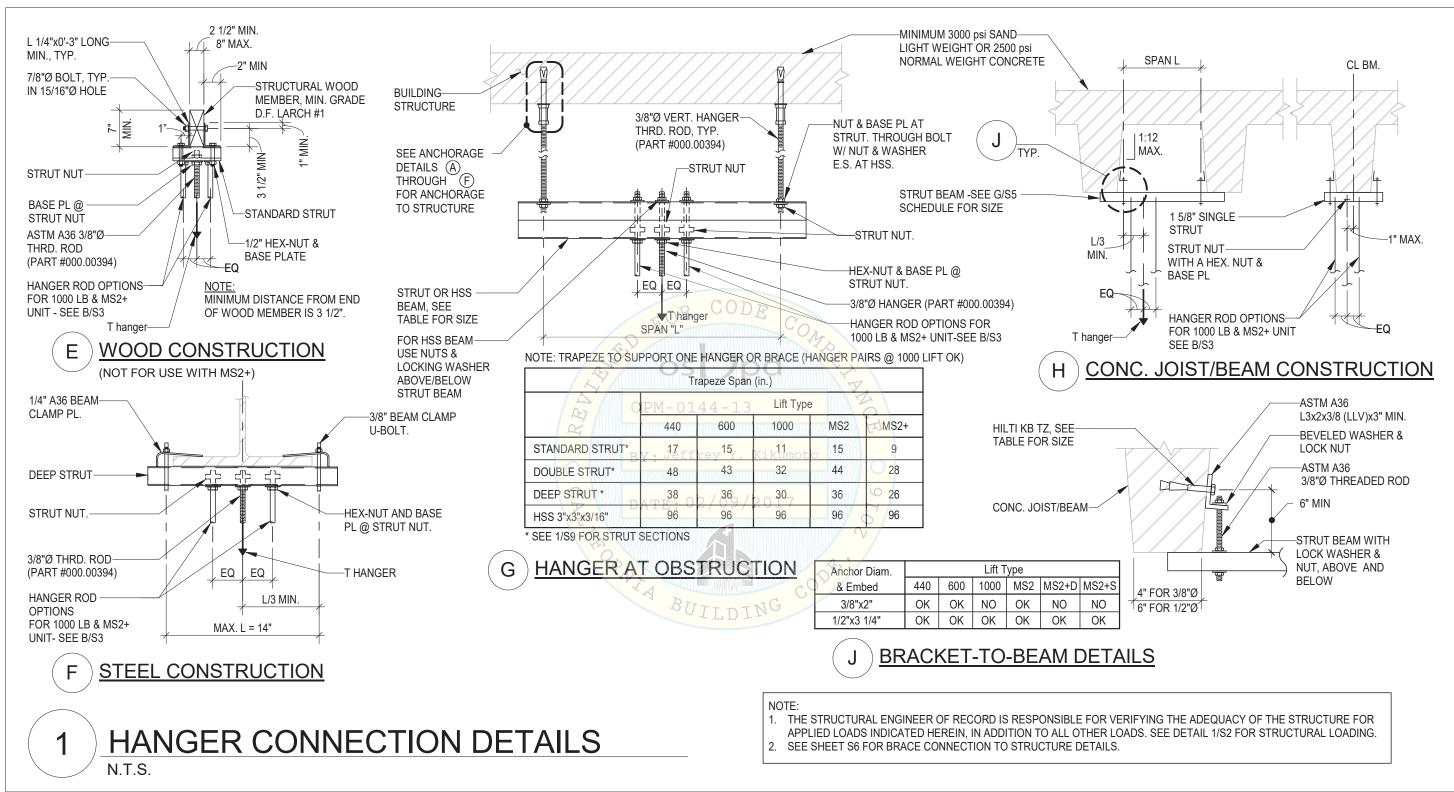
HANGER CONNECTION DETAILS

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S4

OF Sheets Page 6 of 12

Sheet Number







ARJOHUNTLEIGH MAXISKY CEILING LIFTS MODELS 440, 600, 1000, MS2 & MS2+

HANGER CONNECTION DETAILS

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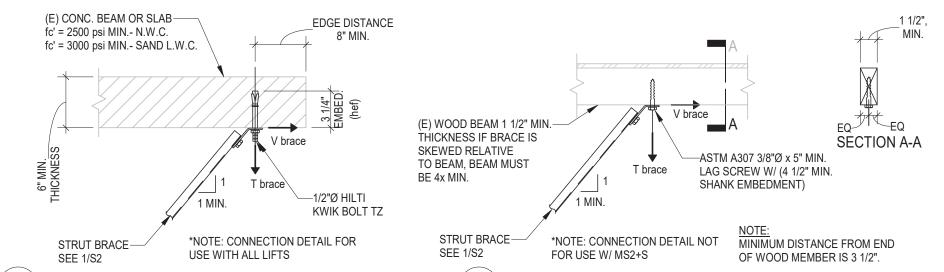
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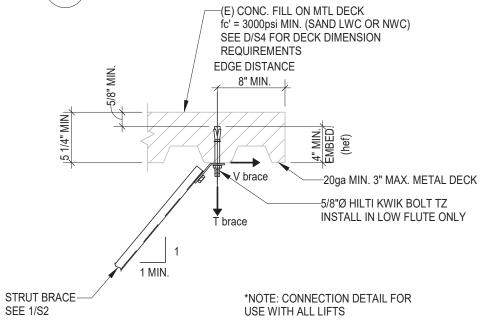
S5

Sheet Number

OF Sheets
Page 7 of 12



K SOLID CONCRETE SLAB CONSTRUCTION (M) BRACE PARALLEL TO WOOD BEAM



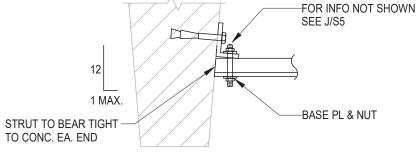
L METAL DECK WITH CONCRETE FILL CONSTRUCTION

(E) OR (N) 8d MIN. @ 12" O.C. MAX. TYP. (E) WOOD BEAM 3 1/2" -3x BLKG W/ 3-16d END NAILS MIN. EA. END, MIN. PROVIDE 4x BLOCKING IF BRACE IS SKEWED RELATIVE TO BLOCKING T brace -ASTM 3/8"Ø x 5" MIN. LAG SCREW W/ (4 1/2" MIN. SHANK EMBEDMENT). PROVIDE STEEL BUSHING @ 1/2" HOLE STRUT BRACE SEE 1/S2 IN BRACKET. \*NOTE: CONNECTION DETAIL NOT

STRUT BEAM
SEE G/S5
SCHEDULE
FOR SIZE

T brace
FOR INFO NOT
SHOWN SEE OTHER
DETAILS THIS SHEET
STRUT BRACE
SEE 1/S5

FOR INFO NOT SHOWN



\* NOTE: CONNECTION DETAIL FOR USE WITH ALL LIFTS.

P CONC. JOIST/BEAM CONSTRUCTION

N BRACE PERPENDICULAR TO WOOD BEAM

FOR USE W/ MS2+S



# **BRACE CONNECTION DETAILS**

N.T.S.

SHEET NOTES

1. THESE DETAILS ARE NOT USED WITH DIAGONAL BRACING MEMBERS, BUT MAY BE USED FOR VERTICAL HANGERS BRACED AT LOWER END (PER 1A/S2, SECTION X-X) OR FOR UNBRACED HANGERS.



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Title:
BRACE CONNECTION DETAILS

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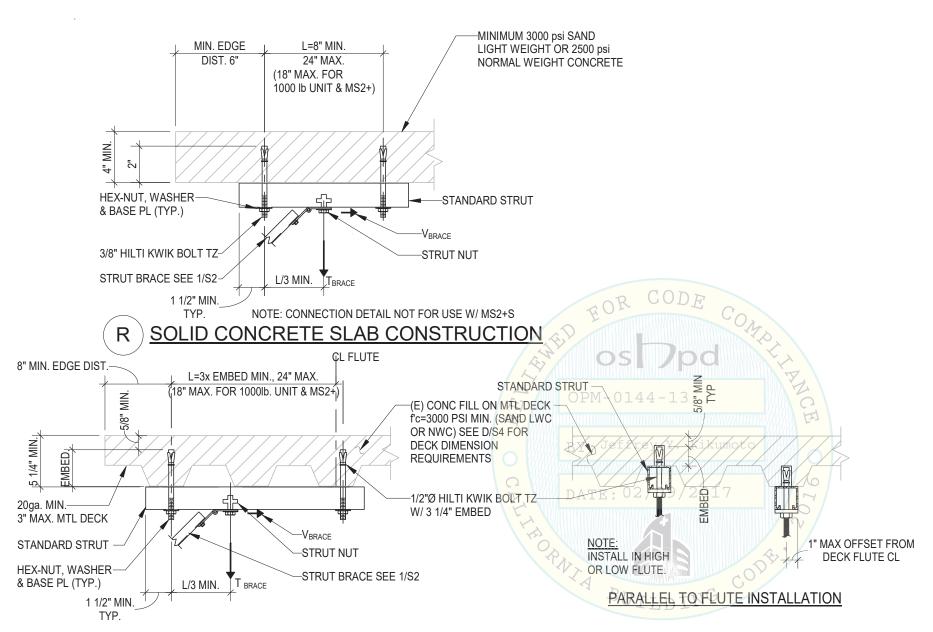
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 Date
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S6

OF Sheets
Page 8 of 12



PERPENDICULAR TO FLUTE INSTALLATION

NOTE: CONNECTION DETAIL FOR USE WITH ALL LIFTS

S MTL DECK W/ CONC. FILL CONSTRUCTION



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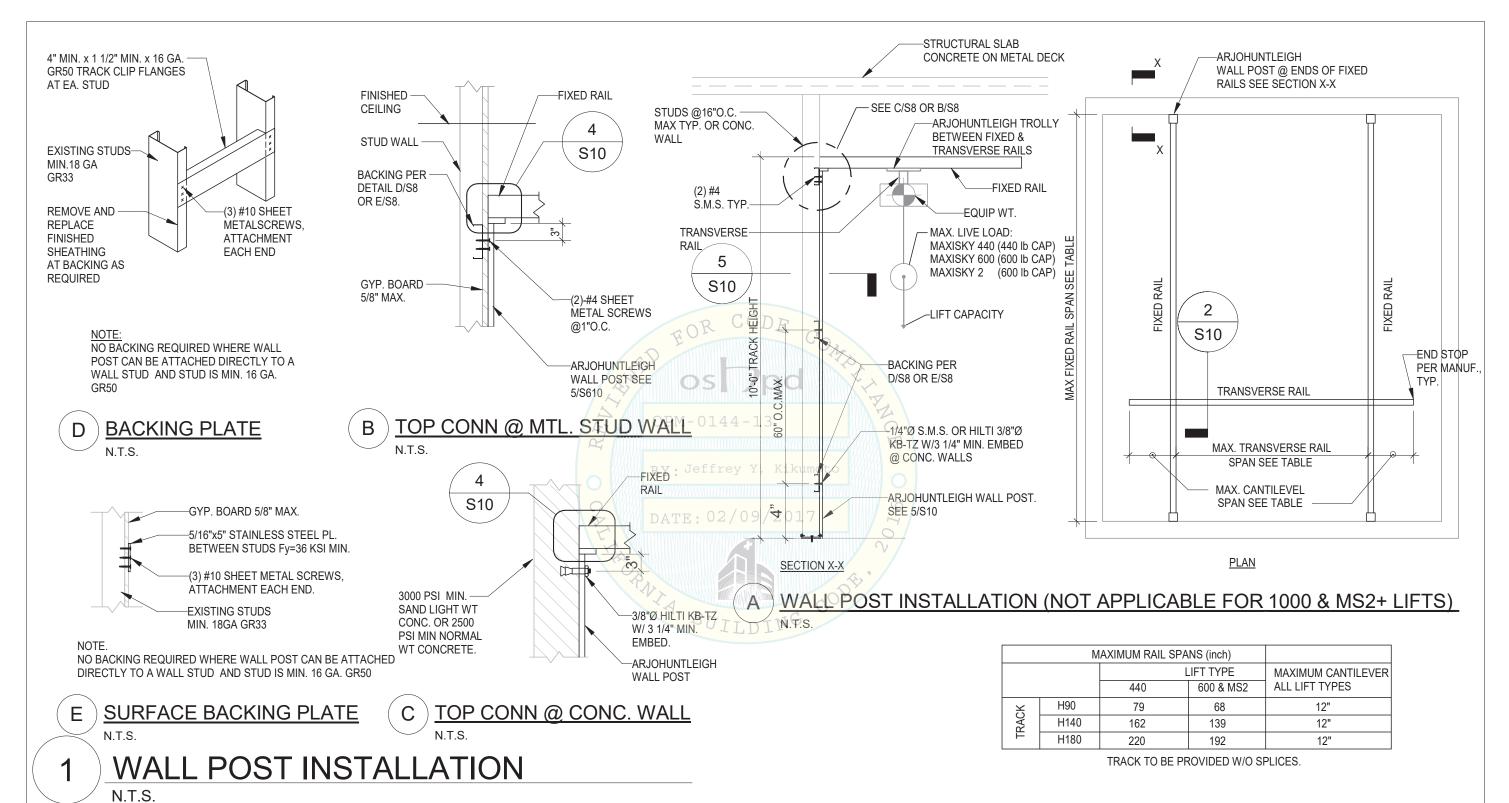
ARJOHUNTLEIGH MAXISKY CEILING LIFTS MODELS 440, 600, 1000, MS2 & MS2+ Title: BRACE CONNECTION DETAILS

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S7

OF Sheets
Page 9 of 12







ARJOHUNTLEIGH MAXISKY CEILING LIFTS MODELS 440, 600, 1000, MS2 & MS2+ Title: WALL POST

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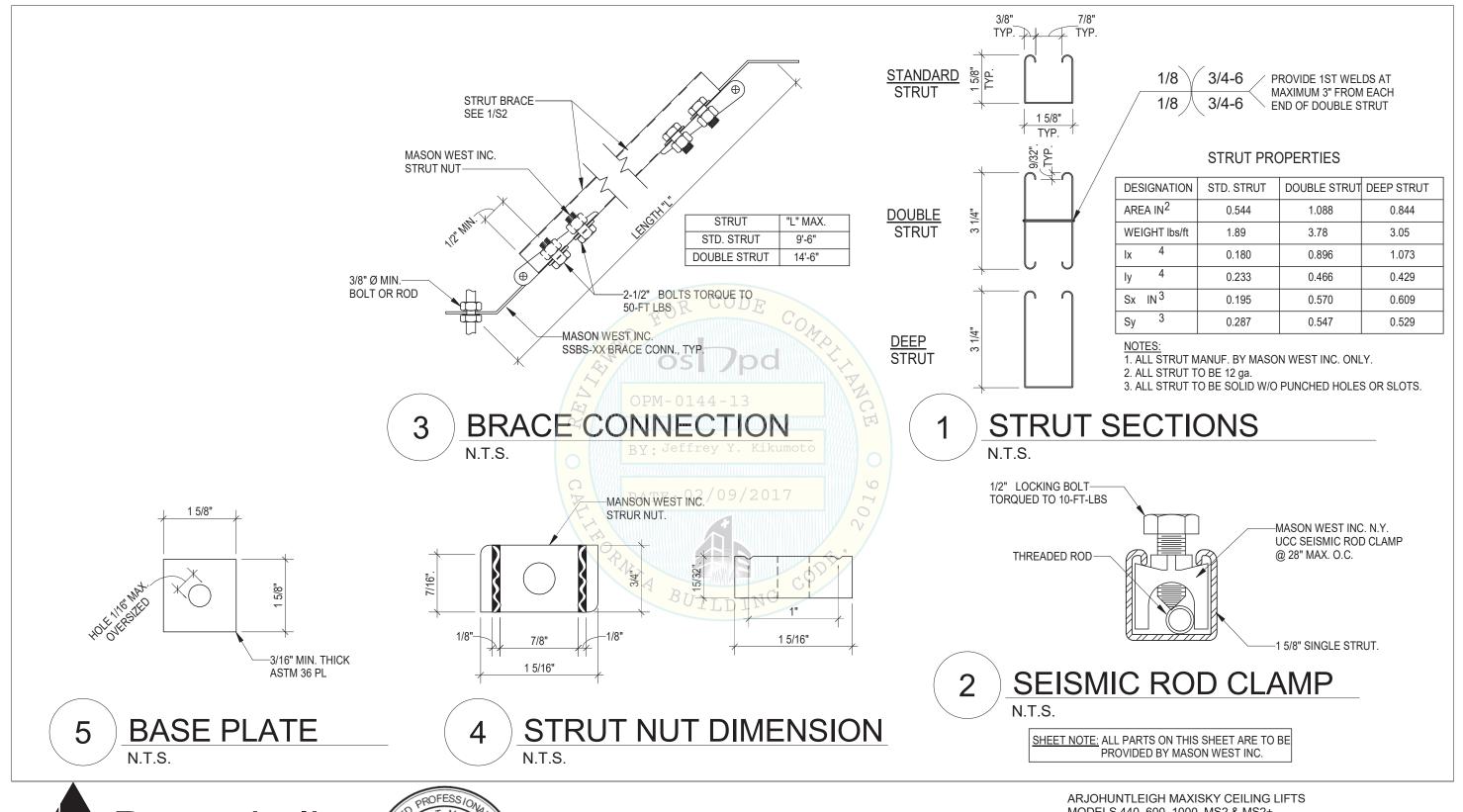
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OF Sheets

Page 10 of 12

S8





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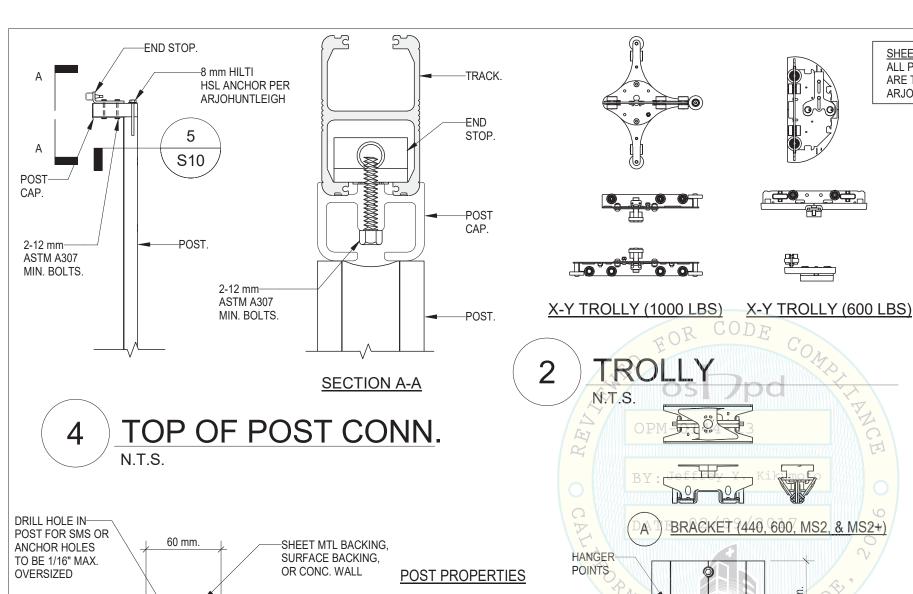
ARJOHUNTLEIGH MAXISKY CEILING LIFTS MODELS 440, 600, 1000, MS2 & MS2+ Title: STRUT PARTS SHEET

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S9

OF Sheets Page 11 of 12



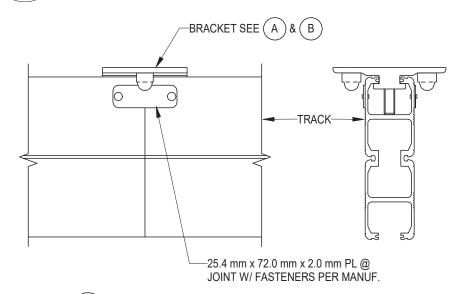
SHEET NOTE:
ALL PARTS ON THIS SHEET
ARE TO BE PROVIDE BY
ARJOHUNTLEIGH.

Track Properties - ASTM B429 ALLOY 6063-T54 Track Type KWIK track H90 H140 H180 A (in. )<sup>2</sup> 1.73 2.88 3.56 Sx (in. ) 3 1.19 2.75 4.40 1.18 1.90 2.39 Sy (in. ) <sup>3</sup> Ix (in. )4 2.11 7.84 15.85 1.29 2.08 Ιv 2.62 2.07 4.25 Weight 3.43

NOTE: ALL TRACK SECTIONS ARE ASTM B429 ALLOY 6063 ANSI H35.1 TEMPER T54

55 mm. 55 mm.

TRACK SECTIONS



(C) BRACKET @ JOINT (ALL LIFTS)

3 TRACK BRACKETS

N.T.S.

126 mm



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N.T.S.

S.M.S. OR EXP.

ANCHOR SEE A/S6.



 $Ix = 0.104 \text{ in}^4$ 

 $Iv = 0.552 in^4$ 

 $Sx = 0.173 \text{ in}^3$ 

 $Sy = 0.468 \text{ in}^3$ 

 $A = 0.89 \text{ in}^2$ 

POST ASTM B429

ALLOY 6063 ANSI

**SECTION WALL POSTS** 

H35.1 TEMPER T54

BRACKET ASTM

6063 ANSI H35.1

B429 ALLOY

TEMPER T34

ARJOHUNTLEIGH MAXISKY CEILING LIFTS MODELS 440, 600, 1000, MS2 & MS2+ Title:
ARJOHUNTLEIGH PARTS SHEET

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S10

Page 12 of 12