

San Diego Water Leak Damage Remediation – 3rd Floor

36E77619B0019

Technical Questions Tracker

9/4/2019

- 1) Please provide a Haz Mat report for areas where work might occur.
 - a. *See attached report.*
- 2) In reviewing the plumbing drawings, I see that they show the sanitary waste piping as being run on the third floor. See drawings PS101, PS102, PS103, PS104.

Should the piping really be installed in the 2nd floor interstitial space?

If YES, will the abatement be done to make the space safe for plumbers?

A: Sanitary waste piping is shown on the floor plans showing the fixtures. This piping must be sloped in the direction of flow therefore the majority of this piping must be installed below the 3rd floor or in the 2nd floor interstitial space. The 2nd floor interstitial space is a hazardous area and requires appropriate PPE including but not limited to respirators.

D.Harper 2019 Sept 4th,

9/11/2019

- A. Please provide a mfg/model number or specification for the patient head walls. Amico is the basis of design, *In the Hemodialysis areas, the Futurus wall panel system was the basis of design*
- B. Arjo is listed as the basis of design for the patient lifts. Which Arjo patient lift is the basis of design? They have several to offer. *Maxi sky 2, Attached are the cut sheets of the basis of design for the patient lift system. These drawings serve as the San Diego VAMC facility standard.*
Michael Degnan 2019, 9/13
- C. What is the maximum weight capacity the lift needs to be? *600 lbs for patient and 750 lbs min. structure capacity, Michael Degnan 2019, 9/13*

- D. Please provide a mfg/model for the following CF/CI items listed on AI001:
 - a. #20 Equipment Rails, *Hospital Systems Inc. HIS "F" Type Eclipse Horizontal Equipment Rail*

- b. #36 Monitor, OFCI
 - c. #44 Wall Mounted Scale, Stow-A-Weigh Model: 6202
 - d. #95 Wall Mounted Monitor, OFCI
 - e. #103 Peerless Ceiling Mounted Hanger for TV, see RFI response to # 4 dated 2019, 9/10. Telehook, Flat screen ceiling mount / Tilt TH-3070-CTLW/CTSW. Michael Degnan 2019, 9/13
- E. Is this project sales tax exempt? No, this is not exempt of sales tax. Contractors are required to pay sales and excise tax. Offerors shall include all applicable taxes in accordance with FAR By Reference Clause 52.229-3 "Federal, State and Local Taxes."
- F. Where will the designated laydown & parking area be for workers accessing the construction site? Parking on site will be on a first come first served basis. Parking will be behind the hospital by the North loading dock. Contractors to use Service Elevator P-3 and/or Elevators S-1, S-3, S-4. Loading and unloading to be done from the Loading Bay directly to the elevators. Contractors to protect tile flooring in front of elevators and keep elevators clean. All deliveries to be done prior to 7:30 AM and construction waste after 4:30 pm. VA will provide an office for the contractor that will be near the project, laydown yards are limited, dumpsters will be provided for general trash, Haz Mat debris to be followed in the specs. Michael Degnan 2019, 9/13
- G. Will the government accept the use of the industry leading Procore Project Management software as the primary submittal and data tracking tool for this project? Yes, Michael Degnan 2019, 9/13
- H. During construction in an area where the ceilings or fire suppression system will be disrupted, will NFPA 241 apply? Yes, Michael Degnan 2019, 9/13
- I. Will the government require additional security measures beyond NFPA code such as fire watch, temporary fire alarms, adjustments to sprinkler heads, etc.
 All requirements of the NFPA code (including but not limited to NFPA 101, 13, 25, 72, 241 & 99) will be expected to be followed at all times including the use of fire watches, temporary fire alarms, sprinkler head adjustments, barrier walls, egress paths, daily egress checks, etc.
 When a fire protection system (sprinkler) is out of service for more than 10 hours in a 24 hour period or a fire alarm system is out of service for more than 8 hours in a 24 hour period then applicable procedures must be implemented.
 Michael Degnan 2019, 9/13
- J. Who is the fire alarm servicer that the VA is currently work with?
 Albireo Energy has the current 5 year contract for the VA
 Sprinkler Service is Bradshaw Engineering
 Michael Degnan 2019, 9/13

- K. If there is an asbestos report, can the VA release it before the due date? **Hazardous Material Report will be provided via amendment to FBO.**
- L. What is the level of infectious disease control rating for this site? **Refer to specification section 013526 Safety Requirements. Particularly section 1.12. Class V measures will be required unless written approval is provided by the government.**
- M. Are there photos available of the Asbestos containing areas? **Contractor was given the invitation to bid walk the interstitial, the VA does not have photos to give out. Michael Degnan 2019, 9/13**
- N. Can the VA publish the site visit, sign in sheet? **Yes, refer to contracting officer.**
- O. Does the VA anticipate and down time between phases? **Yes. 45 days. Michael Degnan 2019, 9/13**
- P. Does the VA have an anticipated NTP date for this project? **NTP will be issued after bonding and insurance is received and verified. Anticipated NTP is within 120 calendar days of award.**



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Each panel is made from seamless, bleach cleanable Corian®, which is GREENGUARD® certified to resist microbial growth to help reduce HALs. Corian® panels also resist chipping, peeling, scratching and staining for greater life cycle. A metal back plate reinforces each panel for greater impact resistance.

Features a patented hanging system for easy panel attachment and removal and interlocking lap joint panel edges to prevent liquid penetration. Available in standard or custom panel sizes, colors and finishes to suit any wall space or design scheme. Can also incorporate services, technology, branding and wayfinding.

STANDARD FEATURES

- Panel Depth: 1/2", 5/8", 3/4"
- Heights and widths are configurable
- Pre-located, fire rated sub-panels mount to stud-wall for easy layout and installation
- Standard Corian® Colors: Cameo White, Glacier White, Bisque, Bone, Vanilla
- Matte finish
- Futrus® 5-year limited, Corian® 10-year limited warranty

CUSTOMIZATIONS

- Available in any Corian® color & pattern; Exclusive wood grain patterns and customizable print options also available
- Lighting: Panels can be configured to accommodate surface mounted lighting; offered in a variety of designs or customized for wayfinding, theming or branding

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IMPORTANT NOTES

1. The ceiling minimum structure capacity must be able to support the load specified on the installation drawing.
2. Electrical power source outlet already available by the facility at a maximum distance of 3 meters from charging station.
3. Any obstructions such as vents, pipes, lights and sprinklers that could possibly be in the path of the ceiling lifts to be removed or relocated by the facility prior to installation.
4. Modifications of door headers by the facility.
5. Arjohuntleigh reserves the right to slightly modify the track layout if necessary.
6. See the "Agreed Conditions for the Installation of Ceiling Lifts" document included with this quote for important installation details.
7. Arjohuntleigh will not be held responsible for any damages, inconvenience, resulting from hitting any non visible conduits during our installation process.
8. Signed drawings are required prior to ordering and installation of ceiling lifts. This signature of each drawings confirms agreement of all the conditions listed above.

MY SIGNATURE BELOW VERIFIES THAT I HAVE:



















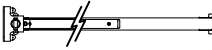

Reviewed all 4 pages, with a total quantity of 3 rooms, for the approbation of layout for each room and the approbation of structure for each room. I verify that the answers below are accurate to the best of my knowledge and I understand that the quote produced is dependent upon the conditions below as well as this full drawing set.

- Is a load dock available? ☒ YES ☐ NO
- Can facility accept shipment and store until install begins? ☐ YES ☒ NO
- Will a drop trailer be needed? ☐ YES ☒ NO
- Is parking available on site? Is there a fee involved? ☒ YES ☐ NO
- Are there any installation time frame limitations? What are they? ☐ YES ☒ NO
- Is a level of infectious control required? ☒ YES ☐ NO
If YES, then what level _____

CUSTOMER

APPROVAL: _____ DATE: _____

Legend

| | | | |
|---|----------------------|---|------------------------|
| (*)  | Light |  | Bracket |
|  | Vent |  | Joint bracket |
|  | Access trap required |  | Wall bracket |
|  | Existing access trap |  | Wall post side |
|  | Sprinkler |  | Wall post |
|  | Smoke detector |  | "T" junction |
|  | Electrical outlet |  | Gate |
|  | Curtain track | (*)  | Turntable |
|  | IV track |  | Exchanger |
|  | Swivel pole | (*)  | Motor/Charger location |

(*) Symbol may vary depending of equipment type

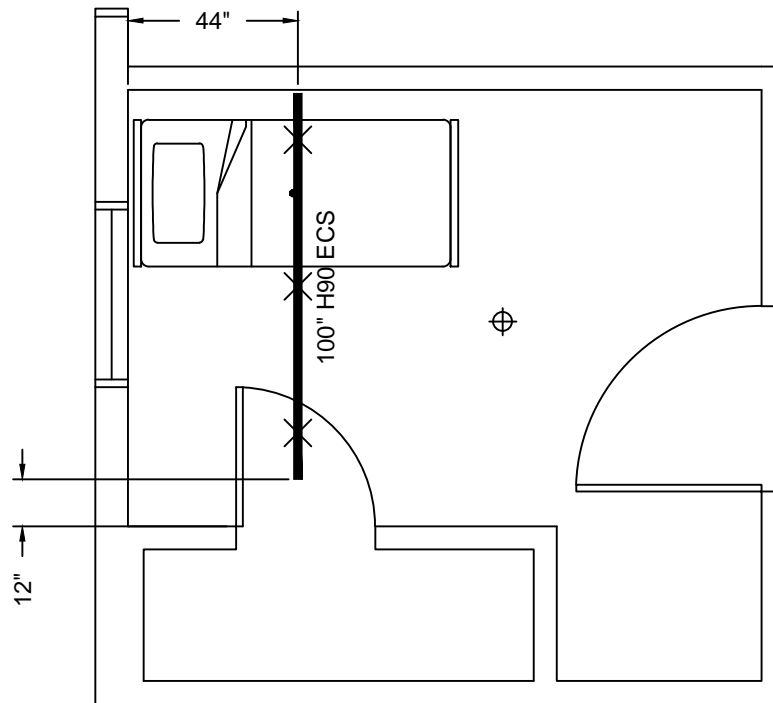
| | |
|-------------|-----------------|
| | |
| | |
| | |
| | |
| REVISION(S) | DATE(S) (D-M-Y) |

INSTALLATION DRAWING

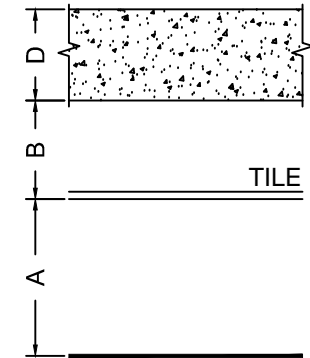
VA SAN DIEGO

| | |
|--|------------------------|
| DISTRIBUTOR : ARJOHUNTLEIGH | ARJOHUNTLEIGH |
| REPRESENTATIVE : BILL ASHBROOK | |
| DATE (DD-MMM-YYYY) : 03-JAN-2013 | |
| REFERENCE # : QC-103134MS | PAGE : 1 / 4 |

- ALL HARDWARE INCLUDED.
(ACCORDING TO STRUCTURE)



27.6 MPA [4000 PSI] MIN.



A=108"
B=9 1/2"
D=6 1/2"

ECS INSTALLATION
MS2 4F ECS MOTOR

QUANTITY OF ROOMS: 1

LISTING OF ROOM NUMBER(S):
BLDG 1 RM 2144

VA SAN DIEGO

SAFE WORKING LOAD BELOW LIFT: 600LBS [272KG]

MINIMUM STRUCTURE CAPACITY: 750LBS [340KG]

DATE CREATED (DD-MMM-YYYY) : 03-JAN-2013

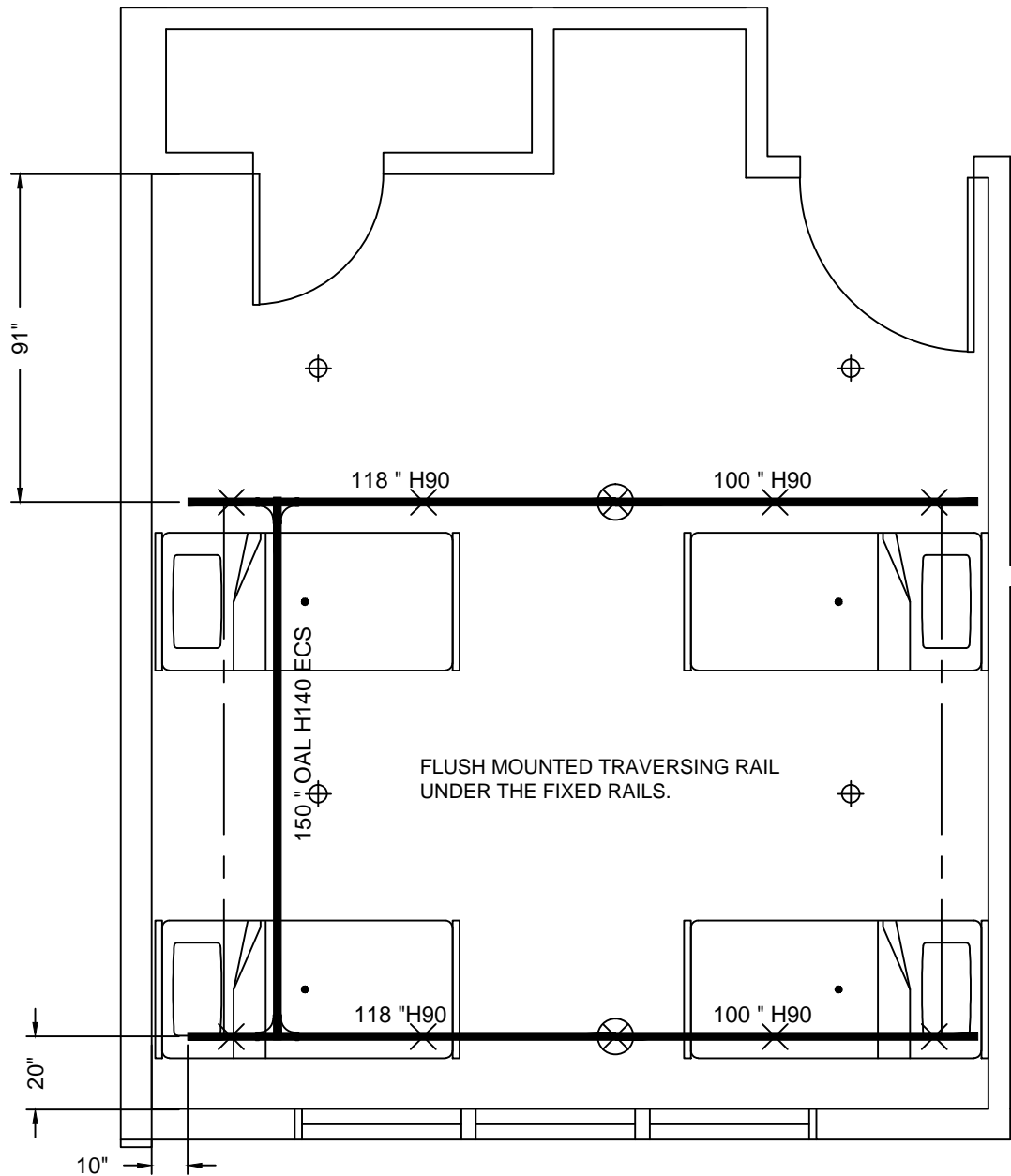
DRAWN BY : usaddsom02 SCALE : 1/4" = 1'

REFERENCE # : QC-103134MS PAGE : 2 / 4

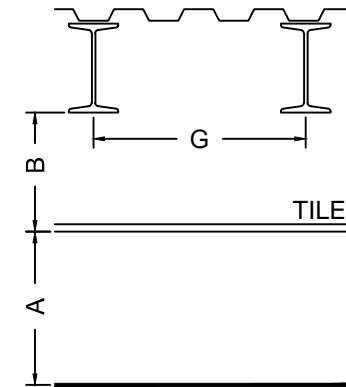
THIS LAYOUT HAS BEEN PREPARED WITH SUPPLIED DATA.

NOTE: CUTTING OF RAILS ON SITE ONLY

ARJOHUNTLEIGH



- ALL HARDWARE INCLUDED.
(ACCORDING TO STRUCTURE)



A=108"
B=12 1/2"
F=4"
G=48"
H=4"

QUANTITY OF ROOMS: 1

LISTING OF ROOM NUMBER(S):
BLDG 1 RM 2146

VA SAN DIEGO

SAFE WORKING LOAD BELOW LIFT: 600LBS [272KG]

MINIMUM STRUCTURE CAPACITY: 750LBS [340KG]

DATE CREATED (DD-MMM-YYYY) : 03-JAN-2013

DRAWN BY :
usaddsom02

SCALE :
1/4" = 1'

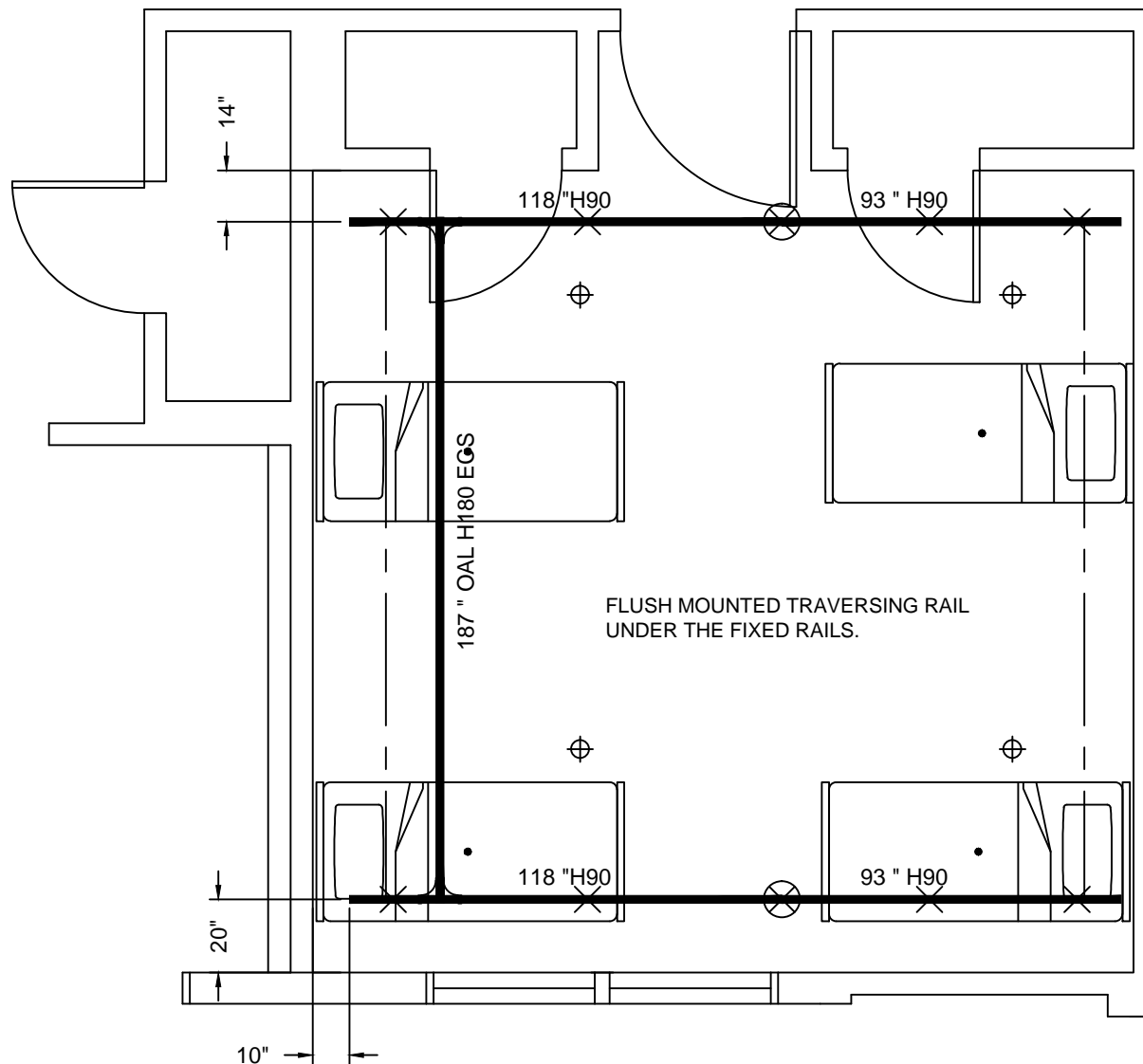
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QC-103134MS

PAGE :
3 / 4

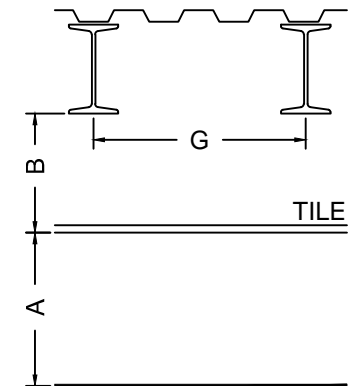
THIS LAYOUT HAS BEEN PREPARED WITH SUPPLIED DATA.

NOTE: CUTTING OF RAILS ON SITE ONLY

ARJOHUNTLEIGH



- ALL HARDWARE INCLUDED.
(ACCORDING TO STRUCTURE)



A=108"
B=12 1/2"
F=4"
G=48"
H=4"

ECS INSTALLATION
MS2 2F ECS MOTOR
UNIVERSAL TROLLEY FLUSH

QUANTITY OF ROOMS: 1

LISTING OF ROOM NUMBER(S):
BLDG 1 RM 2150

VA SAN DIEGO

SAFE WORKING LOAD BELOW LIFT: 600LBS [272KG]
MINIMUM STRUCTURE CAPACITY: 750LBS [340KG]

DATE CREATED (DD-MMM-YYYY) : 03-JAN-2013

DRAWN BY :
usaddsom02

SCALE :
1/4" = 1'

REFERENCE # :
QC-103134MS

PAGE :
4 / 4

THIS LAYOUT HAS BEEN PREPARED WITH SUPPLIED DATA.

NOTE: CUTTING OF RAILS ON SITE ONLY

ARJOHUNTLEIGH

GENERAL NOTES

I. GENERAL

1. 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

1. VERIFY MATERIALS AND WORKMANSHIP TO CONFORM WITH THE 2007 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.
3. VERIFY CONCRETE SLAB IS NOT CRACKED.
4. VERIFY ANCHORS ARE ADEQUATE DISTANCES FROM OPENINGS AND EDGES OF SLABS.
5. VERIFY ANCHORS ARE ADEQUATE DISTANCES FROM NEW OR EXISTING ANCHORS.
6. DESIGN ANY SUPPLEMENTARY MEMBER AND THEIR ATTACHMENTS OTHER THAN THOSE DETAILED WITHIN THIS PRE-APPROVAL.
7. VERIFY THE EQUIPMENTS WEIGHT, C.G. 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 UNISTRUT CORPORATION, UNLESS OTHERWISE INDICATED ON THE DRAWINGS.
2. CHANNEL FRAMING TO CONFORM TO ASTM A1011, GRADE 33.
3. INSTALL BRACING WITH NO MORE THAN 10 DEGREE PLAN DEVIATION.

IV. MECHANICAL ANCHORS

1. WEDGE ANCHORS INTO CONCRETE: USE ZINC PLATED CARBON STEEL HILTI KB-TZ (ICC ESR-1917). INSTALL ANCHORS IN ACCORDANCE WITH ICC REPORT AND OSHPD CAN 2-1912A.1 & CAN 2-1916A.8
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.
3. ANCHORS WILL BE PROOF-TESTED BY OWNER'S TESTING AND INSPECTION AGENCY.
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.
6. 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

1. 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, FEDERAL SPECIFICATION FF-N-105B, STANDARD LENGTHS U.O.N. USE HOT-DIPPED ZINC-COATED GALVANIZED NAILS FOR EXTERIOR INSTALLATIONS AND 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.
 - F. FRAMING CLIPS, SHEET METAL STRAPS, ETC.: SIMPSON, UNIVERSAL, OR SILVER, WITH ICC REPORTS. DESIGNATIONS ON DRAWINGS ARE BASED ON SIMPSON CATALOGUE NUMBERS.
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.
 1. DRILL LEAD HOLE FOR THE SHANK TO A DEPTH EQUAL TO THE LENGTH OF THE UNTHREADED PORTION IN THE MAIN MEMBER. USE A DRILL BIT OF THE SAME DIAMETER AS THE LAG SCREW.
 2. 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

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 |
| 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

1. 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.
2. 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: 2007 CALIFORNIA BUILDING CODE.

2. SEISMIC DESIGN:

$$\text{SEISMIC FORCE } F_p = 2.31w \quad F_{pv} = 0.385w$$

WHERE:

$$S_s = 289\% \text{ G} \quad \text{WORST CASE ACCEL.}$$

$$F_a = 1.0 \quad \text{FOR } S_d \text{ SOIL}$$

$$I_p = 1.5 \quad \text{FOR NON-ESSENTIAL EQUIP.}$$

$$R_p = 1.5 \text{ LOW DEFORMATION}$$

$$a_p = 1.0 \text{ RIGID COMPONENT}$$

3. CRANE LOADING PER AISC

$$\begin{aligned} \text{TRANSVERSE LOADING} &= 0.2 (DL+LL) \\ \text{LONGITUDINAL LOADING} &= 0.1 (DL+LL) \end{aligned}$$

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 NOTES |
| S2 | TRACK ELEVATION |
| S3 | HANGER CONNECTION DETAILS |
| S4 | HANGER CONNECTION DETAILS |
| S5 | BRACE CONNECTION DETAILS |



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235 Montgomery Street, Suite 500
San Francisco, CA 94104
415.392.6952 Phone
415.981.3157 Fax
www.degenkolb.com



ARJOHUNTLEIGH MAXISKY CEILING LIFTS

Title: Sheet Number

GENERAL NOTES

Drawn: RP Job Number: A5114009.02

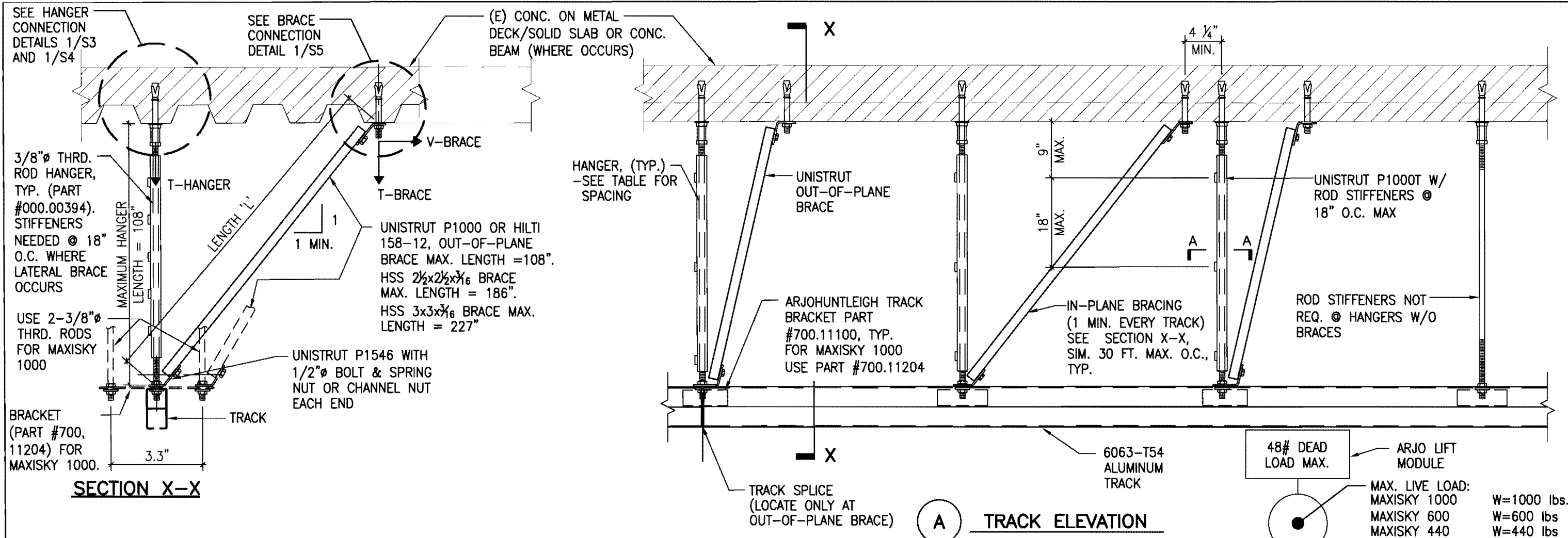
Design: RMG Rev.: 2.1

Check: RSP

Date: 4/13/10

S1

1 OF 5 Sheets



| STRUCTURAL LOADING (lbs.) (ASD LOADING) | LIFT TYPE | | |
|---|--------------|-----|------|
| | Portable 440 | 600 | 1000 |
| T hanger | 605 | 814 | 1307 |
| T brace | 249 | 249 | 281 |
| V brace | 249 | 249 | 281 |
| Weight Lbs | 14 | 28 | 48 |
| Capacity Lbs | 440 | 600 | 1000 |

* LOADS DO NOT INCLUDE 1.3 INCREASE FOR ANCHORS

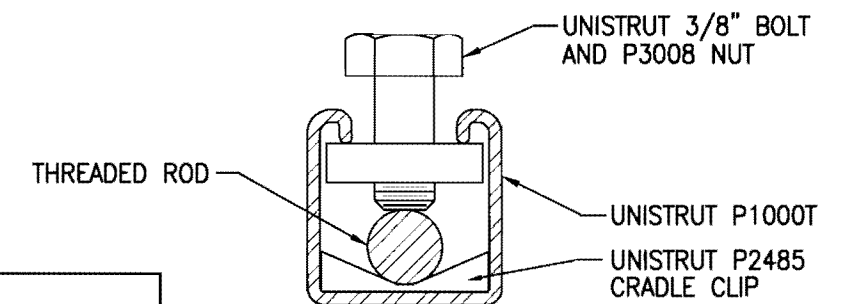
| Track Properties - For Reference Only | | | | |
|---------------------------------------|------------|------|-------|--|
| | Track Type | | | |
| | H90 | H140 | H180 | |
| A (in. ²) | 1.73 | 2.88 | 3.56 | |
| Sx (in. ²) | 1.19 | 2.75 | 4.40 | |
| Ix (in. ⁴) | 2.11 | 7.84 | 15.85 | |
| Weight (lb/ft) | 2.07 | 3.43 | 4.25 | |

| MAXIMUM HANGER SPACING (inch) | | | | |
|-------------------------------|--------------|-----|------|-----|
| | LIFT TYPE | | | |
| | Portable 440 | 600 | 1000 | |
| TRACK | H90 | 74 | 64 | 39 |
| | H140 | 143 | 123 | 98 |
| | H180 | 170 | 170 | 139 |

Max. Transverse Brace Spacing = 2X max. hanger spacing

SHEET NOTES:

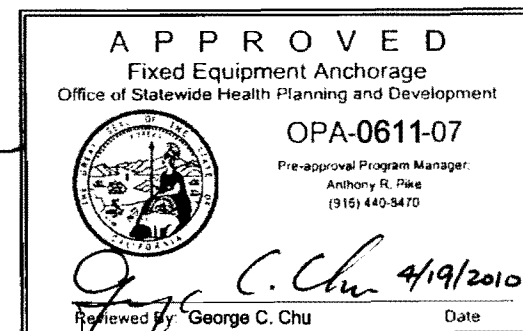
1. THE STRUCTURAL ENGINEER OF RECORD IS RESPONSIBLE FOR VERIFYING THE ADEQUACY OF THE STRUCTURE FOR APPLIED LOADS INDICATED HEREIN, IN ADDITION TO ALL OTHER LOADS.



1 TRACK ELEVATION & DETAILS

N.T.S.

Degenkolb
DEGENKOLB ENGINEERS
235 Montgomery Street, Suite 500
San Francisco, CA 94104
415.392.6952 Phone
415.981.3157 Fax
www.degenkolb.com



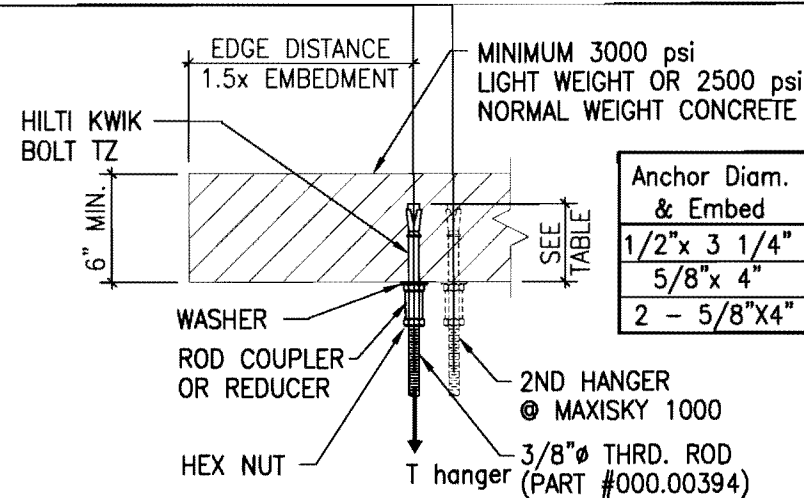
ARJOHUNTLEIGH MAXISKY CEILING LIFTS

Title: TRACK ELEVATION Sheet Number

Drawn: RP Job Number: A5114009.02
Design: RMG Rev.: 2.1
Check: RSP
Date: 4/13/10

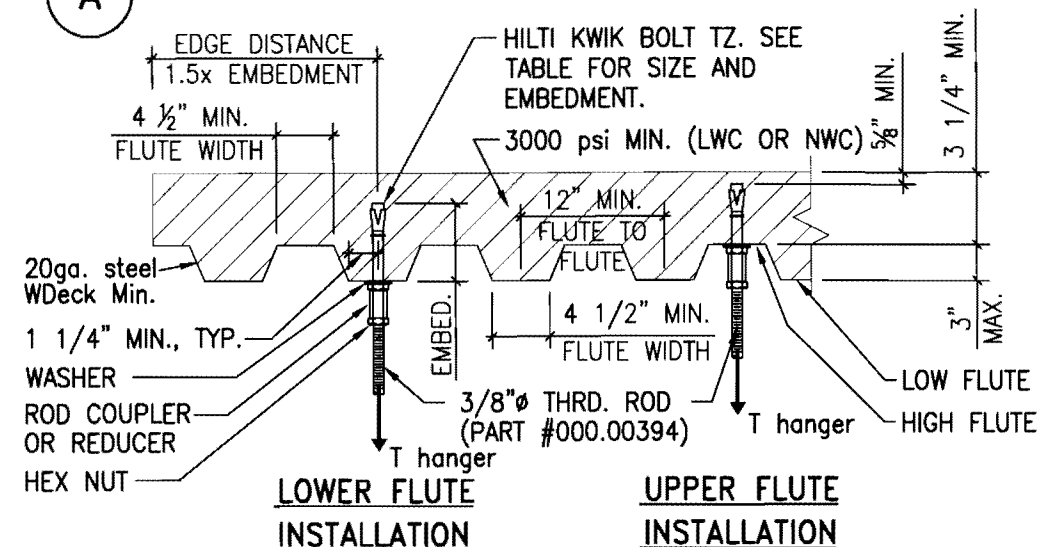
S2

2 OF 5 Sheets



| Anchor Diam. & Embed | Lift Type | | |
|----------------------|--------------|-----|------|
| | Portable 440 | 600 | 1000 |
| 1/2"x 3 1/4" | OK | NO | NO |
| 5/8"x 4" | OK | OK | NO |
| 2 - 5/8"x 4" | N/A | N/A | OK |

A SOLID CONCRETE SLAB CONSTRUCTION



NOTES:

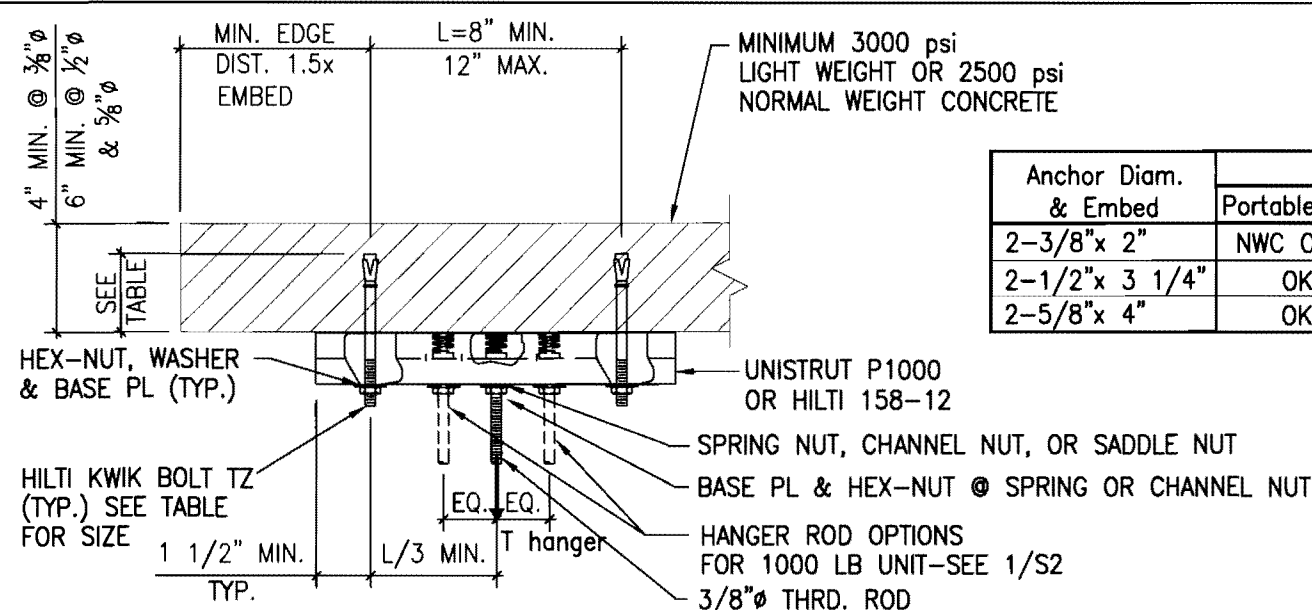
- SEE DETAIL D/- FOR FLUTE DIMENSION REQUIREMENTS.
- INSTALL IN HIGH OR LOW FLUTE.

| Anchor Diam. & Embed | Lift Type | | |
|----------------------|--------------|-----|------|
| | Portable 440 | 600 | 1000 |
| 1/2"x 3 1/4" | OK | NO | N/A |
| 5/8"x 4" | OK | OK | N/A |

B METAL DECK WITH CONC. FILL CONSTRUCTION

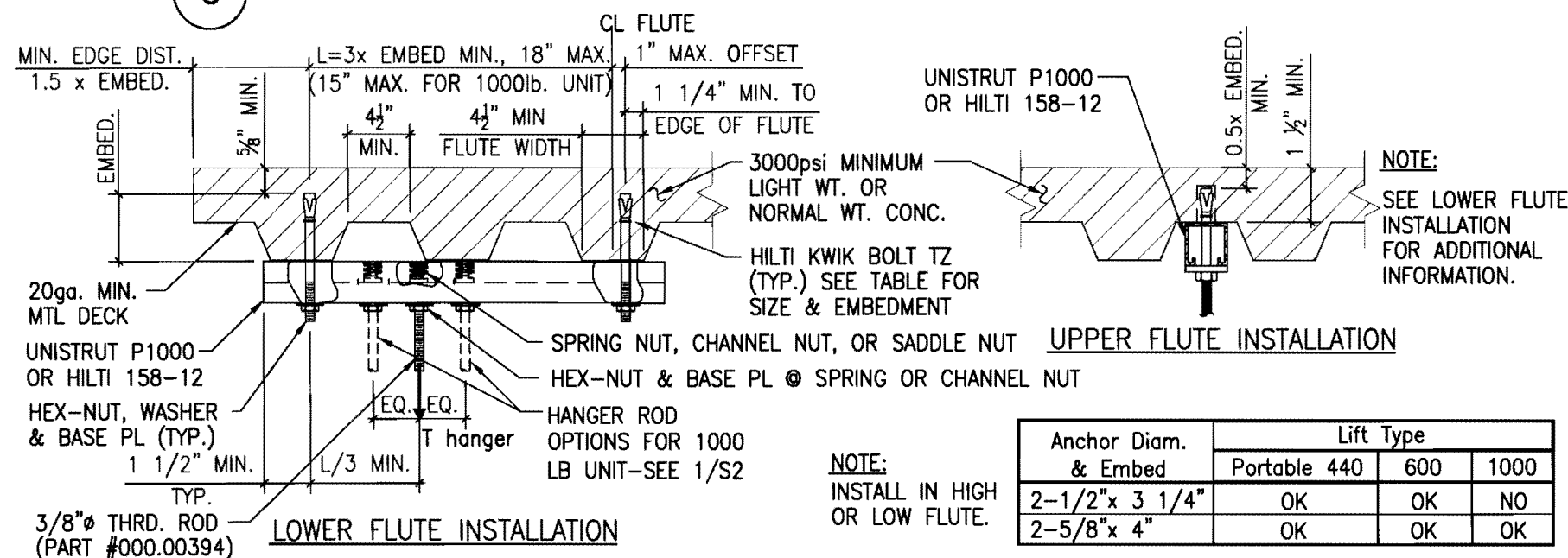
1 HANGER CONNECTION DETAILS

N.T.S.



| Anchor Diam. & Embed | Lift Type | | |
|----------------------|--------------|-----|------|
| | Portable 440 | 600 | 1000 |
| 2-3/8"x 2" | NWC ONLY | NO | NO |
| 2-1/2"x 3 1/4" | OK | OK | NO |
| 2-5/8"x 4" | OK | OK | OK |

C SOLID CONCRETE SLAB CONSTRUCTION



NOTE:
INSTALL IN HIGH
OR LOW FLUTE.

| Anchor Diam. & Embed | Lift Type | | |
|----------------------|--------------|-----|------|
| | Portable 440 | 600 | 1000 |
| 2-1/2"x 3 1/4" | OK | OK | NO |
| 2-5/8"x 4" | OK | OK | OK |

D MTL DECK W/ CONC. FILL CONSTRUCTION

SHEET NOTES:

- THE STRUCTURAL ENGINEER OF RECORD IS RESPONSIBLE FOR VERIFYING THE ADEQUACY OF THE STRUCTURE FOR APPLIED LOADS INDICATED HEREIN, IN ADDITION TO ALL OTHER LOADS. SEE DETAIL 1/S2 FOR STRUCTURAL LOADING.
- 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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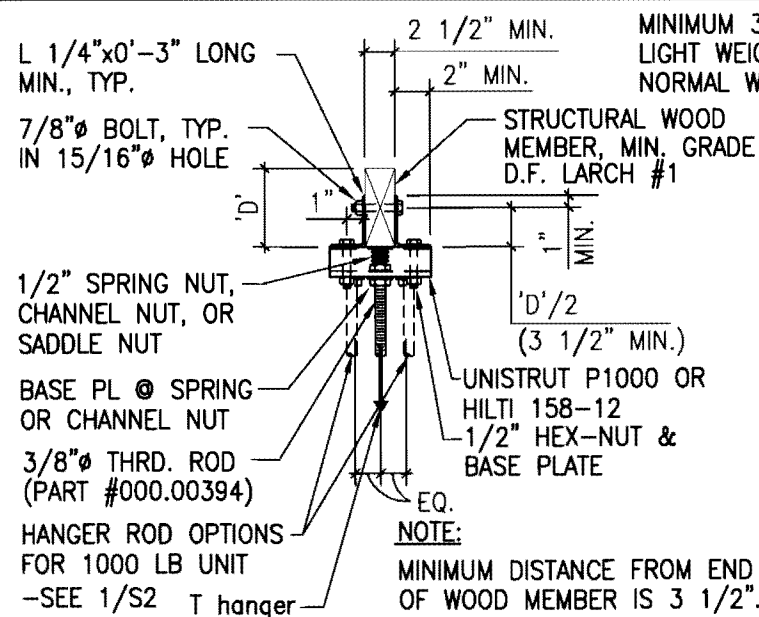
ARJOHUNTLEIGH MAXISKY CEILING LIFTS
Title:
HANGER CONNECTION DETAILS

Sheet Number

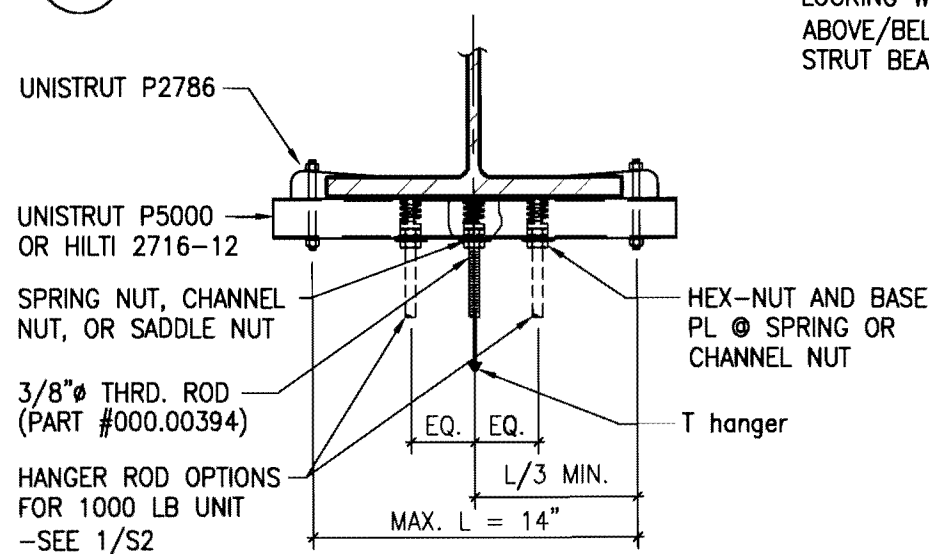
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Design: RMG Rev.: 2.1
Check: RSP
Date: 4/13/10

S3

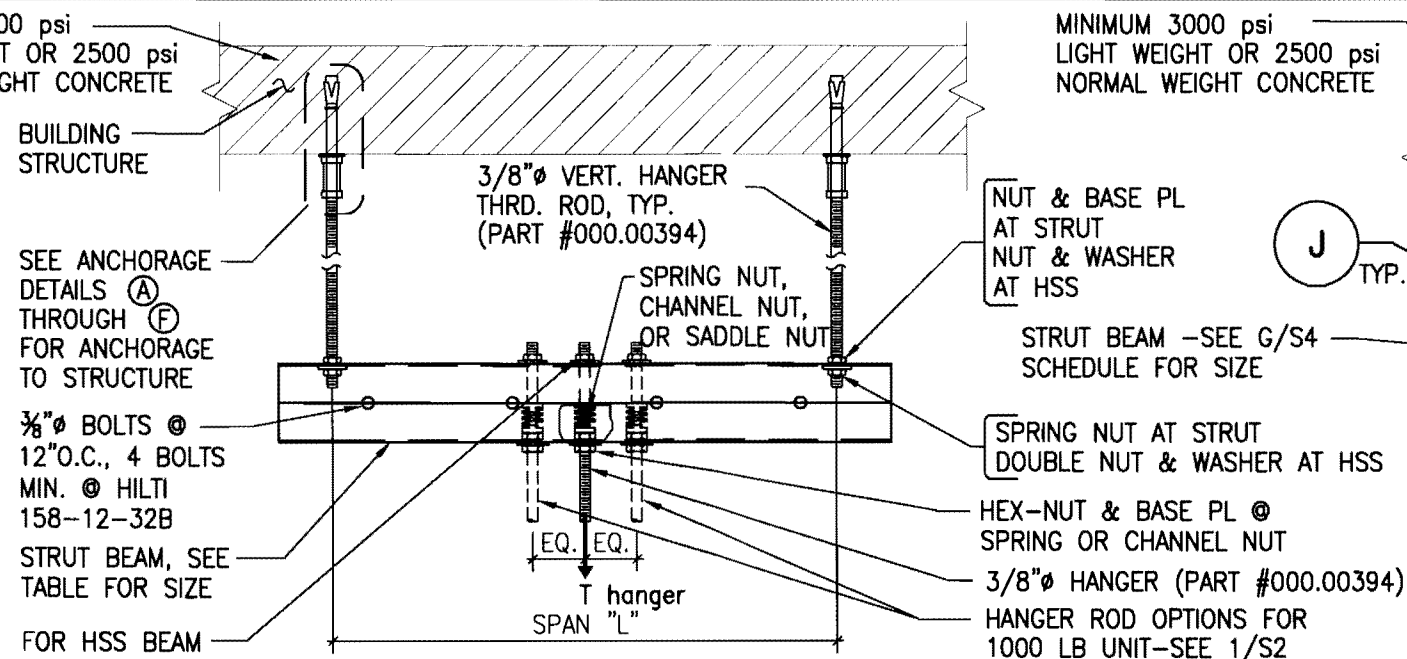
3 OF 5 Sheets



E WOOD CONSTRUCTION



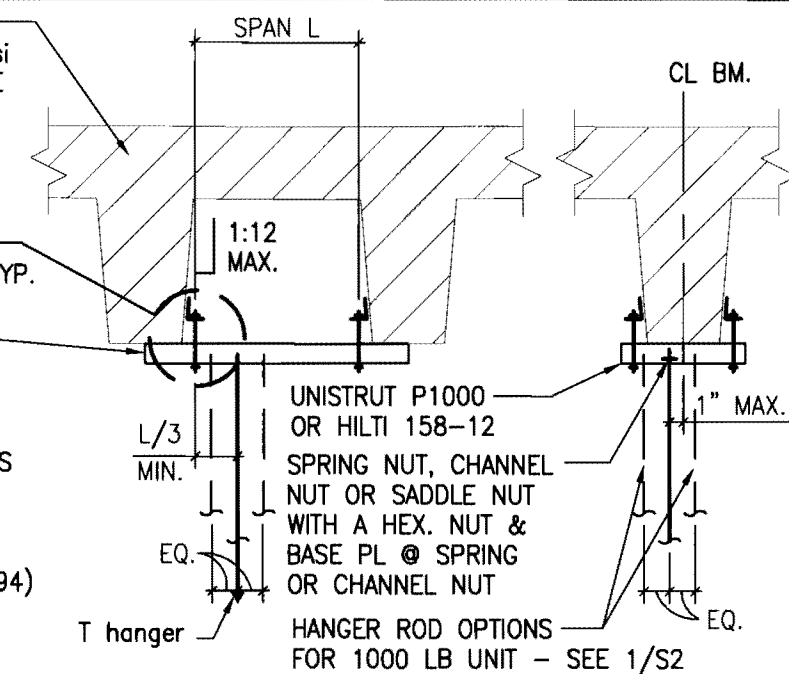
F STEEL CONSTRUCTION



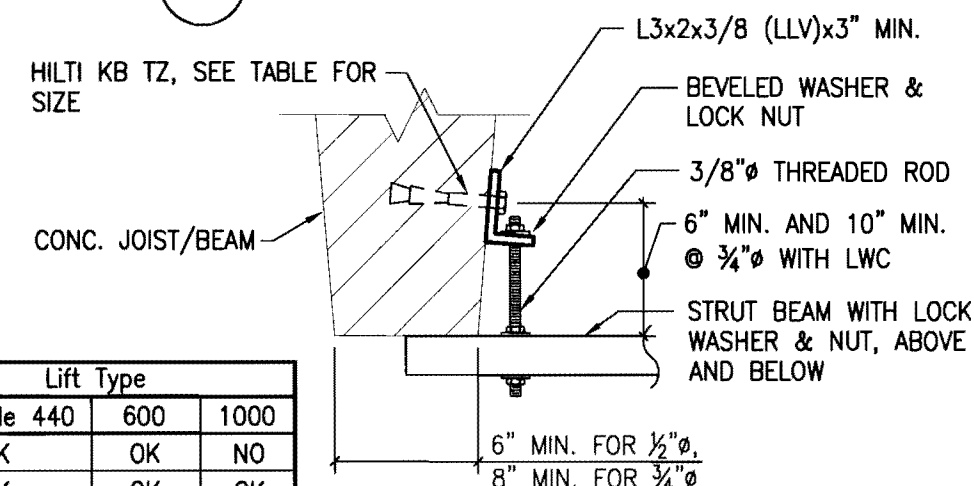
| | Trapeze Span (in.) | | |
|--------------------------------------|--------------------|-----|------|
| | Lift Type | | |
| | PORTABLE | 600 | 1000 |
| UNISTRUT P1000 OR HILTI 158-12 | 29 | 22 | 15 |
| UNISTRUT P1001AW OR HILTI 158-12-B2B | 80 | 62 | 40 |
| UNISTRUT P5501AW | 96 | 96 | 73 |
| HSS 3"x3"x3/16" | 96 | 96 | 96 |

G HANGER AT OBSTRUCTION

| Anchor Diam. & Embed | Lift Type | | |
|----------------------|--------------|-----|------|
| | Portable 440 | 600 | 1000 |
| 1/2" x 3 1/4" | OK | OK | NO |
| 3/4" x 4 3/4" | OK | OK | OK |



H CONC. JOIST/B EAM CONSTRUCTION



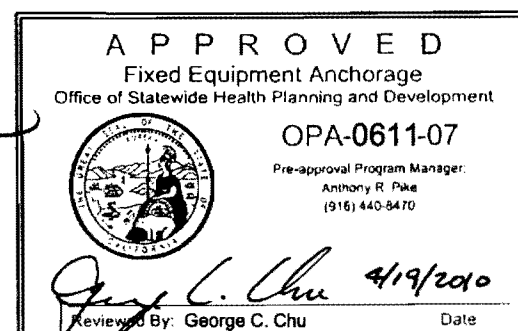
J BRACKET-TO-BEAM DETAILS

SHEET NOTES:

1. THE STRUCTURAL ENGINEER OF RECORD IS RESPONSIBLE FOR VERIFYING THE ADEQUACY OF THE STRUCTURE FOR APPLIED LOADS INDICATED HEREIN, IN ADDITION TO ALL OTHER LOADS. SEE DETAIL 1/S2 FOR STRUCTURAL LOADING.
2. 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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ARJOHUNTLEIGH MAXISKY CEILING LIFTS

Title: Sheet Number

HANGER CONNECTION DETAILS

Drawn: RP Job Number: A5114009.02

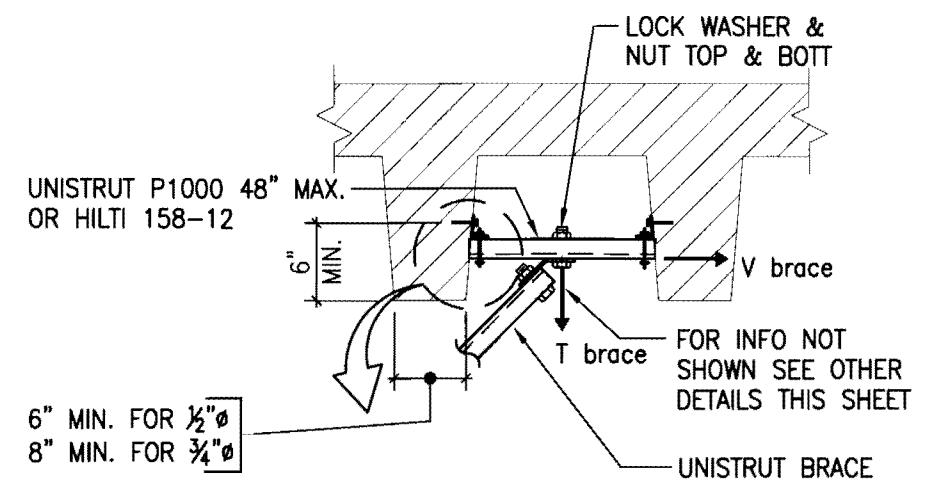
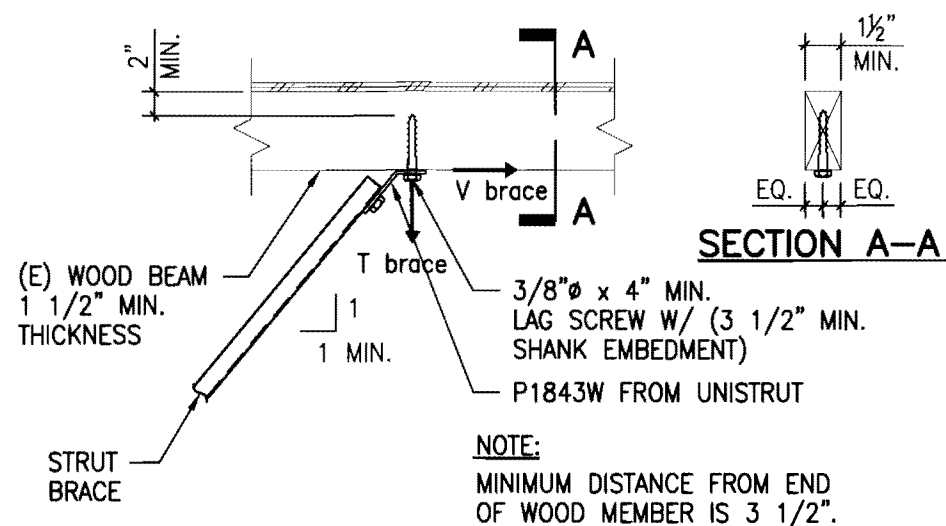
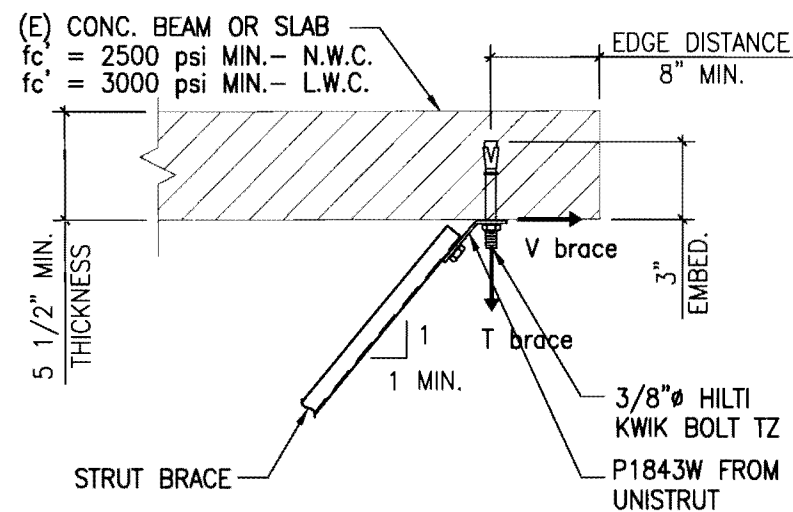
Design: RMG Rev.: 2.1

Check: RSP

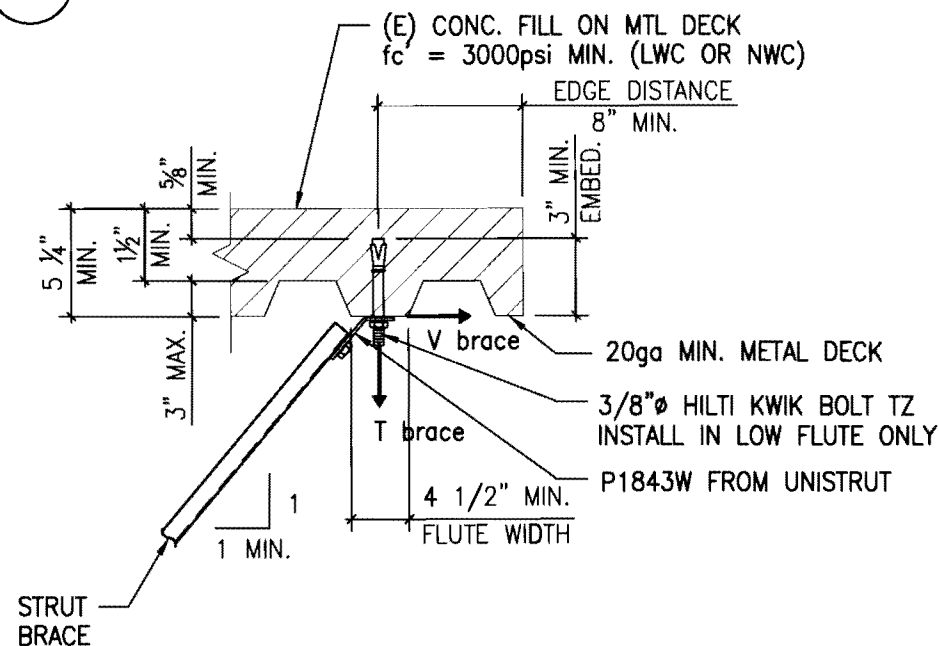
Date: 4/13/10

4 OF 5 Sheets

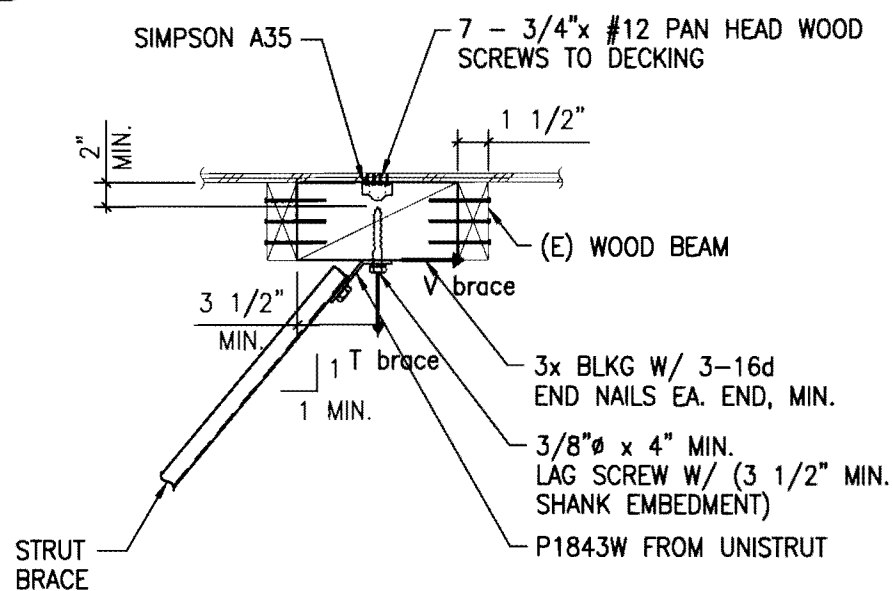
S4



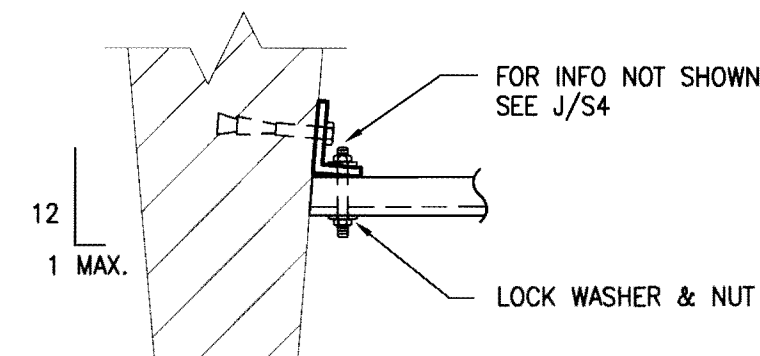
K SOLID CONCRETE SLAB CONSTRUCTION



M BRACE PARALLEL TO WOOD BEAM



P CONC. JOIST/BEAM CONSTRUCTION



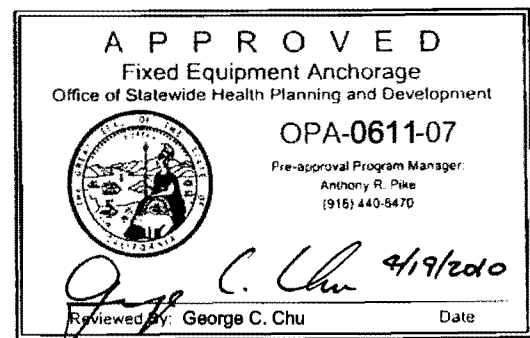
L METAL DECK WITH CONCRETE FILL CONSTRUCTION

N BRACE PERPENDICULAR TO WOOD BEAM

SHEET NOTES:
 1. THE STRUCTURAL ENGINEER OF RECORD IS RESPONSIBLE FOR VERIFYING THE ADEQUACY OF THE STRUCTURE FOR APPLIED LOADS INDICATED HEREIN, IN ADDITION TO ALL OTHER LOADS. SEE DETAIL 1/S2 FOR STRUCTURAL LOADING.

1 BRACE CONNECTION DETAILS
 N.T.S.

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 Sheet Number

Drawn: RP Job Number: A5114009.02
 Design: RMG Rev.: 2.1
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 Date: 4/13/10

S5