



DEPARTMENT OF HEALTH CARE ACCESS AND INFORMATION
OFFICE OF STATEWIDE HOSPITAL PLANNING AND DEVELOPMENT

APPLICATION FOR HCAI PREAPPROVAL OF
MANUFACTURER'S CERTIFICATION (OPM)

OFFICE USE ONLY

APPLICATION #: OPM-0773

HCAI Preapproval of Manufacturer's Certification (OPM)

Type: ☒ New ☐ Renewal/Update

Manufacturer Information

Manufacturer: IN-DAPT 2.0, LLC

Manufacturer's Technical Representative: Sam Leal

Mailing Address: 590 N Dallas Street, Palmer, TX 75152

Telephone: (469) 658-9484

Email: sleal@in-dapt.com

Product Information

Product Name: IN-DAPT Ceiling System

Product Type: Raceway & Ceiling System

Product Model Number: IN-DAPT

General Description: IN-DAPT Ceiling System is a prefabricated, modular ceiling system that consolidates trades and services in clinical spaces. It provides hospitals with long-term flexibility and accessibility to critical services. The system itself comprises a MEP raceway, ceiling grid for diffusers and diffusers for clean air delivery. The system optionally offers an antimicrobial ceiling surface which provides hospitals access above the ceiling at any point in the room while enhancing infection prevention efforts. The system has various attachment methods depending on the application to the building.

Applicant Information

Applicant Company Name: IN-DAPT 2.0, LLC

Contact Person: Bill Summers

Mailing Address: 7420 Karl May Drive, Waco, TX 77665

Telephone: (510) 912-7255

Email: bsummers@in-dapt.com

Title: Co-Owner

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STATE OF CALIFORNIA – HEALTH AND HUMAN SERVICES AGENCY





DEPARTMENT OF HEALTH CARE ACCESS AND INFORMATION
OFFICE OF STATEWIDE HOSPITAL PLANNING AND DEVELOPMENT

Registered Design Professional Preparing Engineering Recommendations

Company Name: CYS STRUCTURAL ENGINEERS, INC.

Name: Dieter Siebald

California License Number: S4346

Mailing Address: 2710 Gateway Oaks Drive, Suite 190N, Sacramento, CA 95833

Telephone: (916) 920-2020

Email: dieters@cyseng.com

Certification Method

Testing in accordance with: ☐ ICC-ES AC156 ☐ FM 1950 ☐ ASHRAE 171 ☐ FEMA 461

☐ Other(s) (Please Specify): _____

*Use of criteria other than those adopted by the California Building Standards Code, 2025 (CBSC 2025) 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 2025 may be used when approved by HCAI prior to testing.

☒ Analysis

☐ Experience Data

☐ Combination of Testing, Analysis, and/or Experience Data (Please Specify): _____

HCAI Approval

Date: 8/30/2026

Name: William Staehlin

Title: Senior Structural Engineer

Condition of Approval (if applicable): _____

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STATE OF CALIFORNIA – HEALTH AND HUMAN SERVICES AGENCY



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NOTES:

1. THESE DRAWINGS ARE PREPARED FOR IN-DAPT 2.0, LLC OF DALLAS, TEXAS.
2. THE CONTRACTOR AND INSPECTOR OF RECORD SHALL OBTAIN A COPY OF THIS PRE-APPROVAL FROM THE DEPARTMENT OF HEALTHCARE ACCESS AND INFORMATION (HCAI) OFFICE OF STATEWIDE HEALTH PLANNING & DEVELOPMENT (OSHDP) PRE-APPROVAL PROGRAMS WEBSITE.
3. THIS PRE-APPROVAL COVERS THE SUPPORTS & ATTACHMENTS OF THE RACEWAY & CEILING SYSTEM TO THE SUPPORTING STRUCTURE ONLY. THE RACEWAY, CEILING SYSTEM, "SUPPORTS & ATTACHMENTS" BRACKETS & CONNECTION HARDWARE TO THE RACEWAY & CEILING SYSTEM IS SUPPLIED & INSTALLED BY IN-DAPT.
- THRU-BOLTS, STRUT HARDWARE & ATTACHMENTS AT SOFFIT UNDER METAL DECK & EXPANSION BOLTS SHOWN ON PAGES 9, 10 & 11 SHALL BE SUPPLIED & INSTALLED BY THE CONTRACTOR.
4. THE SCOPE OF THIS PREAPPROVAL IS LIMITED TO STRUCTURAL ITEMS ONLY. IT DOES NOT ADDRESS OTHER DISCIPLINES SUCH AS, BUT NOT LIMITED TO, MECHANICAL, ELECTRICAL, PLUMBING & FIRE PREVENTION. THESE DISCIPLINES MUST BE APPROVED ON A PROJECT SPECIFIC BASIS BY THE AUTHORITY HAVING JURISDICTION (OSHDP).

NOTES: (CONTINUED)

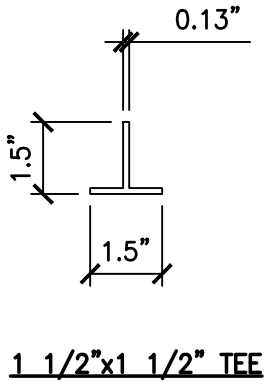
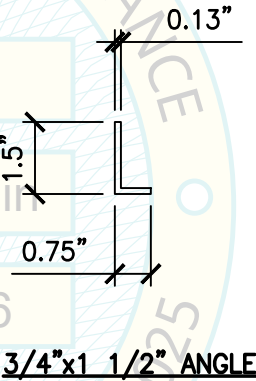
5. IN-DAPT WILL PROVIDE AND INSTALL A HEAVY-DUTY EXTRUDED ALUMINUM CEILING GRID TO SUPPORT THE FOLLOWING COMPONENTS AS PART OF THE IN-DAPT CEILING SYSTEM:
- AMBIENT LIGHT FIXTURES
 - HVAC DIFFUSERS
 - IN FILL/ACCESS PANELS
- THE CEILING GRID IS DESIGNED TO SUPPORT 15 PSF AND SHALL BE INSTALLED PER ASTM C636.

THE HVAC DIFFUSER CEILING GRID IS SUSPENDED BY 12 GAUGE CEILING SUSPENSION WIRES ON 48" CENTERS AND MECHANICALLY SECURED TO THE IN-DAPT RACEWAY VIA #8 SCREWS ON 24" CENTERS.

THE AMBIENT ROOM LIGHTING CEILING GRID IS MECHANICALLY SECURED TO THE IN-DAPT RACEWAY VIA #8 SCREWS ON 24" CENTERS AND TO THE FRAMED PERIMETER VIA #10 SCREWS ON 24" CENTERS.

HEAVY DUTY ALUMINUM CEILING GRID PROFILES:

MATERIAL: 5052-H32 ALUMINUM



SHEET TITLE: TABLE OF CONTENTS



IN-DAPT
RACEWAY & CEILING SUPPORTS

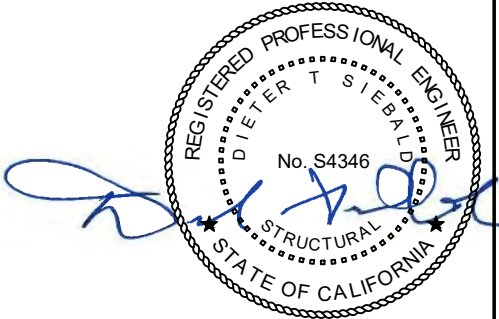


CYS STRUCTURAL ENGINEERS, INC.

2710 GATEWAY OAKS DRIVE, SUITE 190N
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GENERAL NOTES:

1. THIS OSHPD PRE-APPROVAL OF MANUFACTURER'S CERTIFICATION (OPM) IS BASED ON THE CBC 2025. THE DEMAND (DESIGN FORCES) FOR USE W/ THIS OPM SHALL BE BASED ON THE CBC 2025.
2. IT IS THE RESPONSIBILITY OF THE STRUCTURAL ENGINEER OF RECORD FOR A SITE SPECIFIC PROJECT TO VERIFY:
- A. THE ADEQUACY OF THE NEW OR (E) STRUCTURE TO RESIST THE FORCES & WT SPECIFIED FOR EACH EQUIP IN ADDITION TO ALL OTHER LOADS. PROVIDE & DESIGN SUPPLEMENTARY MEMBERS AS REQUIRED.
 - B. THAT THE FLR ANCHORS ARE LOCATED AT AN ADEQUATE DISTANCE FROM ANY SLAB EDGES OR OPENINGS.
 - C. THAT THE FLR ANCHORS ARE LOCATED AT AN ADEQUATE DISTANCE FROM ANY NEW OR (E) ANCHORS. THE SPACING SHOWN IN THE TEST LOADS TABLE ON THIS PAGE IS THE REQUIRED MIN SPACING OF THE GIVEN DIA ANCHORS. THE REQUIRED SPACING FROM ANCHORS OF OTHER DIA & EMBEDMENTS MAY VARY & SHALL BE EVALUATED BY THE SEOR.
 - D. THAT THE INSTALLATION IS IN CONFORMANCE W/ THE CBC 2025 & W/ THE DTLs SHOWN IN THIS PRE-APPROVAL.
 - E. THAT THE ACTUAL EQUIP'S WT, CENTER OF GRAVITY (CG) LOCATION, ANCHOR LOCATIONS, ANCHOR DTLs, & THE MATERIAL & GA OF THE EQUIP WHERE ATTACHMENTS ARE MADE, AGREE W/ THE INFORMATION SHOWN ON THE PRE-APPROVAL DOCUMENTS.
 - F. THAT THE CONC SLAB TO WHICH THE EQUIP IS ANCHORED SHALL MEET THE REQUIREMENTS OF THE APPLICABLE ICC REPORT & THIS OPM.
3. EXPANSION ANCHORS INSTALLED IN NWC OR SLWC SHALL BE CARBON STL HILTI KB-TZ2 EXPANSION ANCHORS COMPLYING W/ ESR-4266 MOST RECENT EDITION.
- A. INSTALLATION: INSTALL THE EXPANSION ANCHORS IN ACCORDANCE W/ THE REQUIREMENTS GIVEN IN THE ICC EVALUATION REPORT FOR THE SPECIFIC ANCHOR & THE PARAMETERS GIVEN IN THE TABLE ON PAGE 5. PROVIDE FULL THRD ENGAGEMENT FOR NUT & WASHER.
 - B. JOB TESTING: FOR VERIFYING SATISFACTORY INSTALLATION WORKMANSHIP, PERFORM JOB SITE TESTING IN ACCORDANCE W/ THE TEST LOAD TABLE PROVIDED IN THIS DOCUMENT. TORQUE 50% OF THE INSTALLED ANCHORS. ALL TESTS SHALL BE CONDUCTED IN THE PRESENCE OF THE SPECIAL INSPECTOR & REPORT OF TEST RESULTS SHALL BE SUBMITTED TO THE INSPECTOR OF RECORD, OWNER & ARCHITECT OR ENGINEER IN RESPONSIBLE CHARGE. IF ANY ANCHOR FAILS THE TEST, TEST ALL ANCHORS. THE TEST SHALL BE PERFORMED 24 HOURS OR MORE AFTER INSTALLATION. TESTING MAY BE DONE PRIOR TO EQUIP INSTALLATION, HOWEVER, THE NUT SHALL BE RETORQUED TO INSTALLATION TORQUE AFTER EQUIP INSTALL. ALSO, REFER TO 2025 CBC 1910A.5 "PROOF TESTS FOR POST-INSTALLED ANCHORS IN CONCRETE".
 - C. FAILURE/ACCEPTANCE CRITERIA: THE FOLLOWING CRITERIA APPLIES FOR THE ACCEPTANCE OF INSTALLED ANCHORS:
 - TORQUE WRENCH METHOD: THE APPLICABLE TEST TORQUE MUST BE REACHED W/IN THE FOLLOWING LIMITS:
 - WEDGE TYPE: ONE-HALF (1/2) TURN OF THE NUT.
 - D. AVOID DAMAGING (E) STL REINF IN CONC SLAB WHEN INSTALLING CONC EXPANSION ANCHORS. EXISTIING TENDONS IN PRE-STRESSED & POST-TENSIONED MEMBERS MUST ALSO BE AVOIDED.
 - E. TEST VALUES: APPLY TEST LOADS TO ANCHORS WITHOUT REMOVING THE NUT IF POSSIBLE, SEE TABLE 1.

GENERAL NOTES CONTINUED:

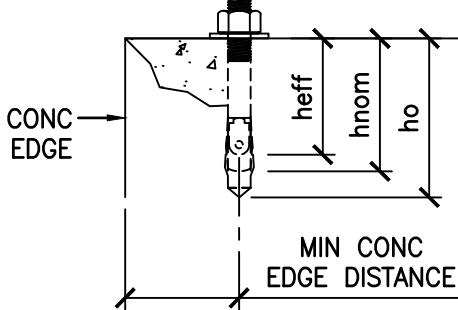
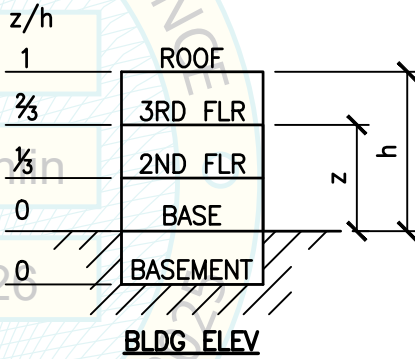


TABLE 1 SEE NOTE 6 FOR CASE DEFINITIONS

CONDITION OF ANCHORAGE	ANCHOR DIA (INCH) da	INSTALLATION EMBED (INCH) hnom	EFFECTIVE EMBED (INCH) hef	HOLE DEPTH (INCH) ho	MIN CONC THICKNESS (INCH) hmin	MIN CONC EDGE DISTANCE (INCH)	MIN AB SPACING (INCH)	TEST LOAD TORQUE (FT-LBS)
CASE 2	1/2	2 3/8	2	2 5/8	3 1/4	12*	4	40
CASE 3	1/2	2 3/8	2	2 5/8	4	12	4	40

*PARALLEL TO DECK RIBS

4. THREE (3) CASES OF ATTACHMENT ARE SPECIFIED & PRESENTED IN THIS PRE-APPROVAL:

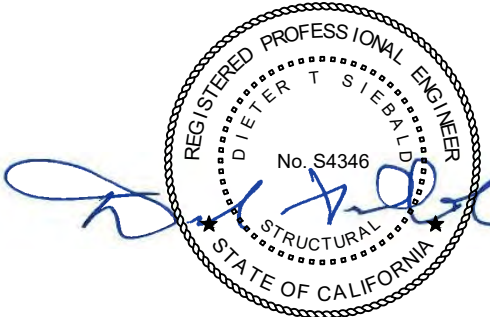


CASE 1: ATTACHMENT DETAILS LOCATED AT UPPER FLRS ABV THE BASE OF A BLDG ($z/h \leq 1.00$). THE SUPPORTING STRUCTURE IS ASSUMED TO BE BUILT OF STEEL FRAMING.

CASE 2: ATTACHMENT DETAILS LOCATED AT UPPER FLRS ABV THE BASE OF A BLDG ($z/h \leq 1.00$). THE FLRS ARE ASSUMED TO BE BUILT OF A MIN 3/4" SLWC TOPPING OVER 3" DEEP MIN 20 GA MTL DECK ($f'c = 3000$ PSI, MIN). ANCHORS SHALL BE INTO THE BOTTOM OF THE METAL DECK RIBS.

CASE 3: ATTACHMENT DETAILS LOCATED AT UPPER FLRS ABV THE BASE OF A BLDG ($z/h = 1.00$). THE FLRS ARE ASSUMED TO BE BUILT OF A MIN 4" NWC SLAB ($f'c = 3000$ PSI, MIN).

5. THIS PRE-APPROVAL MAY BE USED AT ANY GEOGRAPHICAL LOCATION IN THE STATE OF CALIFORNIA WHERE S_{ps} IS LESS THAN OR EQUAL TO THE VALUES SHOWN IN TABLE 2.



SHEET TITLE: GENERAL NOTES				Rev	Description	Date	Job No: 25030
 IN-DAPT RACEWAY & CEILING SUPPORTS  CYS STRUCTURAL ENGINEERS, INC. 2710 GATEWAY OAKS DRIVE, SUITE 190N SACRAMENTO, CA 95833 TEL (916) 920-2020 www.cyseng.com							Date: 08/21/2026
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ABBREVIATIONS:

⊙	AT
AB	ANCHOR BOLT
ABV	ABOVE
ADJ	ADJACENT
ASCE	AMERICAN SOCIETY OF CIVIL ENGINEERS
ASTM	AMERICAN SOCIETY FOR TESTING & MATERIALS
ATR	ALL-THREADED ROD
BLDG	BUILDING
BLW	BELOW
BOTT	BOTTOM
BRG	BEARING
BYD	BEYOND
CBC	CALIFORNIA BUILDING CODE
CG	CENTER OF GRAVITY
Ⓢ	CENTERLINE
CLG	CEILING
COL	COLUMN
CONC	CONCRETE
CONN	CONNECTION
COORD	COORDINATE
DBL	DOUBLE
DTL(S)	DETAIL(S)
DIA (ϕ)	DIAMETER
(E)	EXISTING CONDITION
EA	EACH
EE	EACH END
ELEV	ELEVATION
EQ	EQUAL
EQUIP	EQUIPMENT
f'c	MINIMUM ULTIMATE COMPRESSIVE STRENGTH OF CONCRETE
FLR	FLOOR
FT (')	FOOT/FEET
Fy	SPECIFIED YIELD STRENGTH OF REINFORCING, PS OF STEEL, KSI
GA	GAUGE
GWB	GYPSUM WALL BOARD
HCAI	CALIFORNIA DEPARTMENT OF HEALTH CARE ACCESS AND INFORMATION
HSS	HOLLOW STRUCTURAL SECTION
ICC	INTERNATIONAL CODE COUNCIL
IN (")	INCH
INFO	INFORMATION
KSI	KIPS PER SQUARE INCH
LBS	POUNDS
LRFD	LOAD & RESISTANCE FACTOR DESIGN
MAX	MAXIMUM

MFR	MANUFACTURER
MIN	MINIMUM
mm	MILLIMETER
MOD	MODULE
MTL	METAL
NO. (#)	NUMBER OR POUNDS
NWC	NORMAL WEIGHT CONCRETE
OP	OPERATING
OPG	OPENING
OPM	HCAI OSHPD PRE-APPROVAL OF MANUFACTURER'S CERTIFICATION
OSHPD	OFFICE OF STATEWIDE HEALTH PLANNING & DEVELOPMENT
PERP	PERPENDICULAR
PG(S)	PAGE(S)
Ⓢ	PLATE
PSI	POUNDS PER SQUARE INCH
REQ	REQUIRED
SEOR	STRUCTURAL ENGINEER OF RECORD
SIM	SIMILAR
SLWC	SAND-LIGHTWEIGHT CONCRETE
SPCG	SPACING
SS	STAINLESS STEEL
STL	STEEL
THK	THICK/THICKNESS
THRD	THREAD/THREADED
TRAN	TRANSVERSE
Tu	ANCHORAGE TENSION REACTION DUE TO SEISMIC FORCE AT LRFD
T&B	TOP & BOTTOM
TYP	TYPICAL
UNO	UNLESS NOTED OTHERWISE
Vu	ANCHORAGE SHEAR REACTION DUE TO SEISMIC FORCE AT LRFD
W/	WITH
W/O	WITHOUT
Wp	COMPONENT OPERATING WEIGHT
WT	WEIGHT

DESIGN CRITERIA & SEISMIC DESIGN FORCES (LRFD)

$C_{PM} = F_p/W_p = 0.4 S_{DS} I_p \left[\frac{H_f}{R_{\mu}} \right] \left[\frac{C_{AR}}{R_{po}} \right]$	ASCE 7-22 (13.3-1)
$C_{PM} = F_p/W_p \text{ (MAX)} = 1.6 S_{DS} I_p$	ASCE 7-22 (13.3-2)
$C_{PM} = F_p/W_p \text{ (MIN)} = 0.3 S_{DS} I_p$	ASCE 7-22 (13.3-3)
$C_{VM} = F_v/W_p = \pm 0.2 S_{DS}$	ASCE 7-22 (12.4-4a)
$H_{f_{MIN}} = 1.0$	AT OR BELOW GRADE PLANE
$H_{f_{MAX}} = 1+2.5 (z/h) = 3.50$	ABOVE GRADE $z/h = 1.00$
$R_{\mu_{MIN}} = 1.0$	AT OR BELOW GRADE PLANE
$R_{\mu_{MIN}} = 1.3$	ABOVE GRADE FOR UNSPECIFIED BUILDING SFERS
$[H_f/R_{\mu}]_{MAX} = 2.60$	ABOVE GRADE $z/h = 1.00$
$[H_f/R_{\mu}]_{MIN} = 1.00$	AT OR BELOW GRADE PLANE

SUPPORT & ATTACHMENT DESIGN FOR THE RACEWAY IS PER 2025 CBC AT LRFD LEVEL FORCES PER TABLE 13.6-1 OF ASCE 7-22. "OTHER MECHANICAL OR ELECTRICAL COMPONENTS"

SUPPORT & ATTACHMENT DESIGN FOR THE COMPLETE ACCESS PERIMETER CEILING SYSTEM IS PER 2025 CBC AT LRFD LEVEL FORCES PER TABLE 13.5-1 OF ASCE 7-22. "ARCHITECTURAL COMPONENT OR ELEMENT: CEILINGS - ALL".

$C_{AR} = 1.0$
$R_{po} = 1.5$
$I_p = 1.5$
$\Omega_o = 2.0$
$W_p = \text{AS NOTED ON "COMPONENT PLANS \& ELEVATIONS" PAGES}$

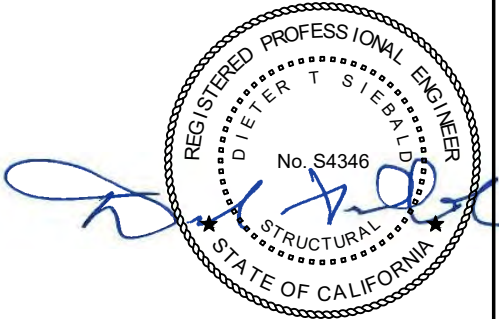
THEREFORE,	
$F_p = 0.4 S_{DS} 1.5 W_p (1.0/1.0)(1.0/1.5) = 0.4 S_{DS} W_p$	AT OR BELOW GRADE PLANE
$\text{MIN } F_p = 0.3 S_{DS} 1.5 W_p = 0.45 S_{DS} W_p$	GOVERNS AT OR BELOW GRADE PLANE
$F_p = 0.4 S_{DS} 1.5 W_p (3.50/1.3)(1.0/1.5) = 1.08 S_{DS} W_p$	AT $z/h = 1.00$

TABLE 2 (LRFD)

	S_{DS}	z/h	H_f	$C_{PM} = F_p/W_p$	$C_{VM} = F_v/W_p$
CASE 1	2.30	1.00	3.50	2.477	0.460
CASE 2	1.10	1.00	3.50	1.185	0.22
CASE 3	1.94	1.00	3.50	2.098	0.388

LRFD LOAD COMBINATIONS	
1. $(1.2 + 0.2 S_{DS}) D+1.0E$	ASCE 7-22 (2.3.6)
2. $(0.9-0.2 S_{DS}) D+1.0E$	ASCE 7-22 (2.3.6)
3. $(1.2 + 0.2 S_{DS}) D+\Omega_o E$	ASCE 7-22 (2.3.6)
4. $(0.9-0.2 S_{DS}) D+\Omega_o E$	ASCE 7-22 (2.3.6)

ASD LOAD COMBINATIONS	
1. $(1.0 + 0.14 S_{DS}) D+1.0E$	ASCE 7-22 (2.4.5)
2. $(0.6-0.14 S_{DS}) D+1.0E$	ASCE 7-22 (2.4.5)



SHEET TITLE: ABBREVIATIONS AND DESIGN CRITERIA



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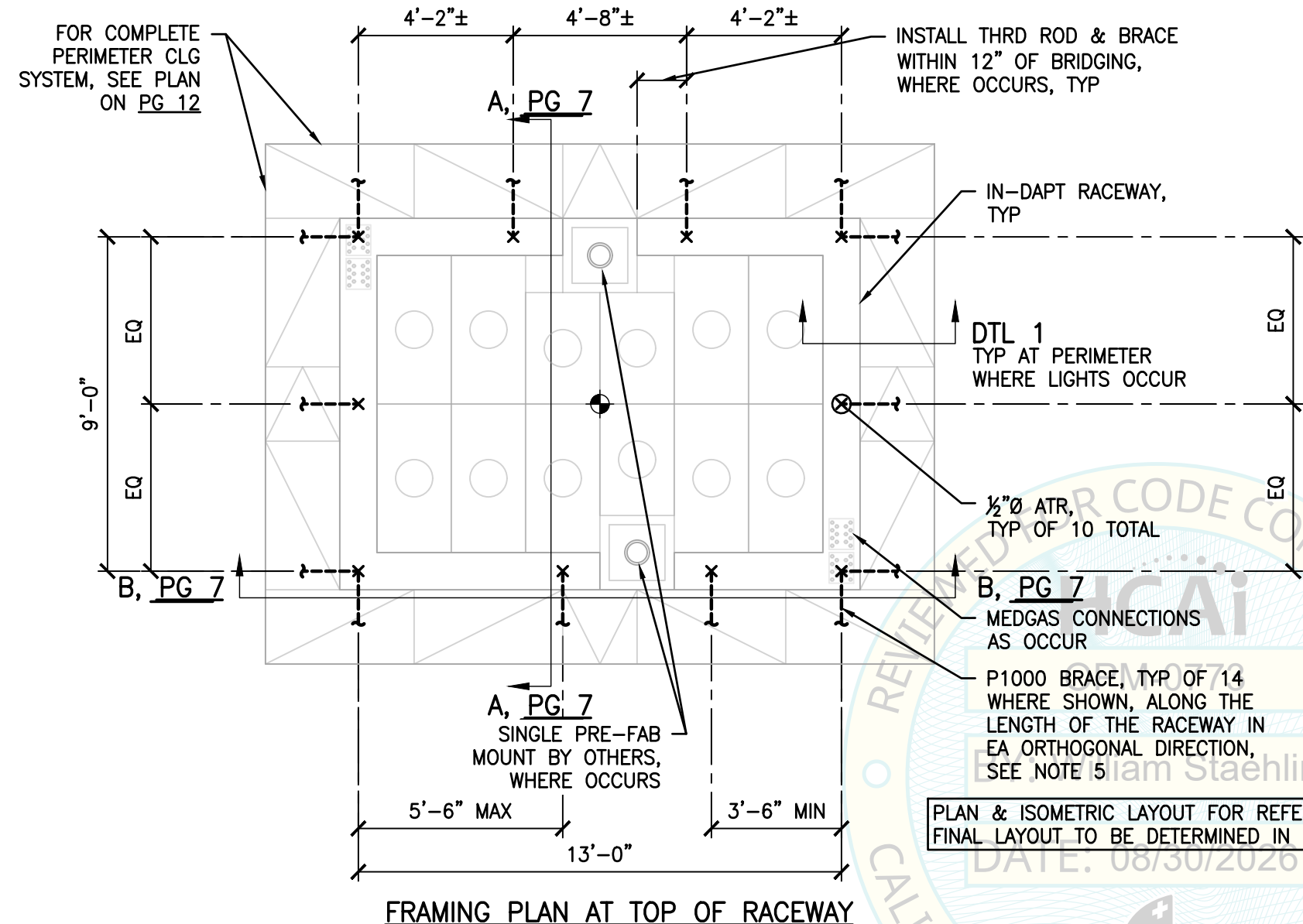


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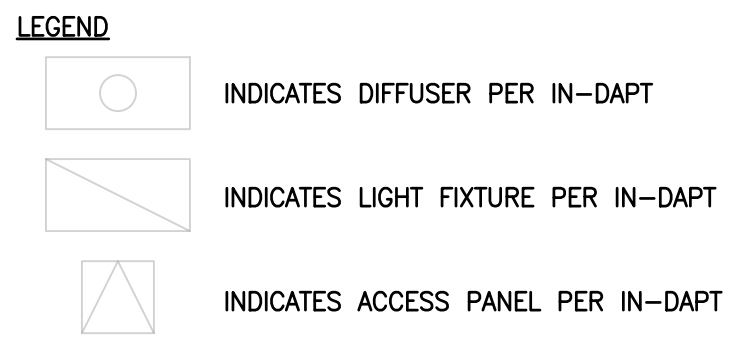
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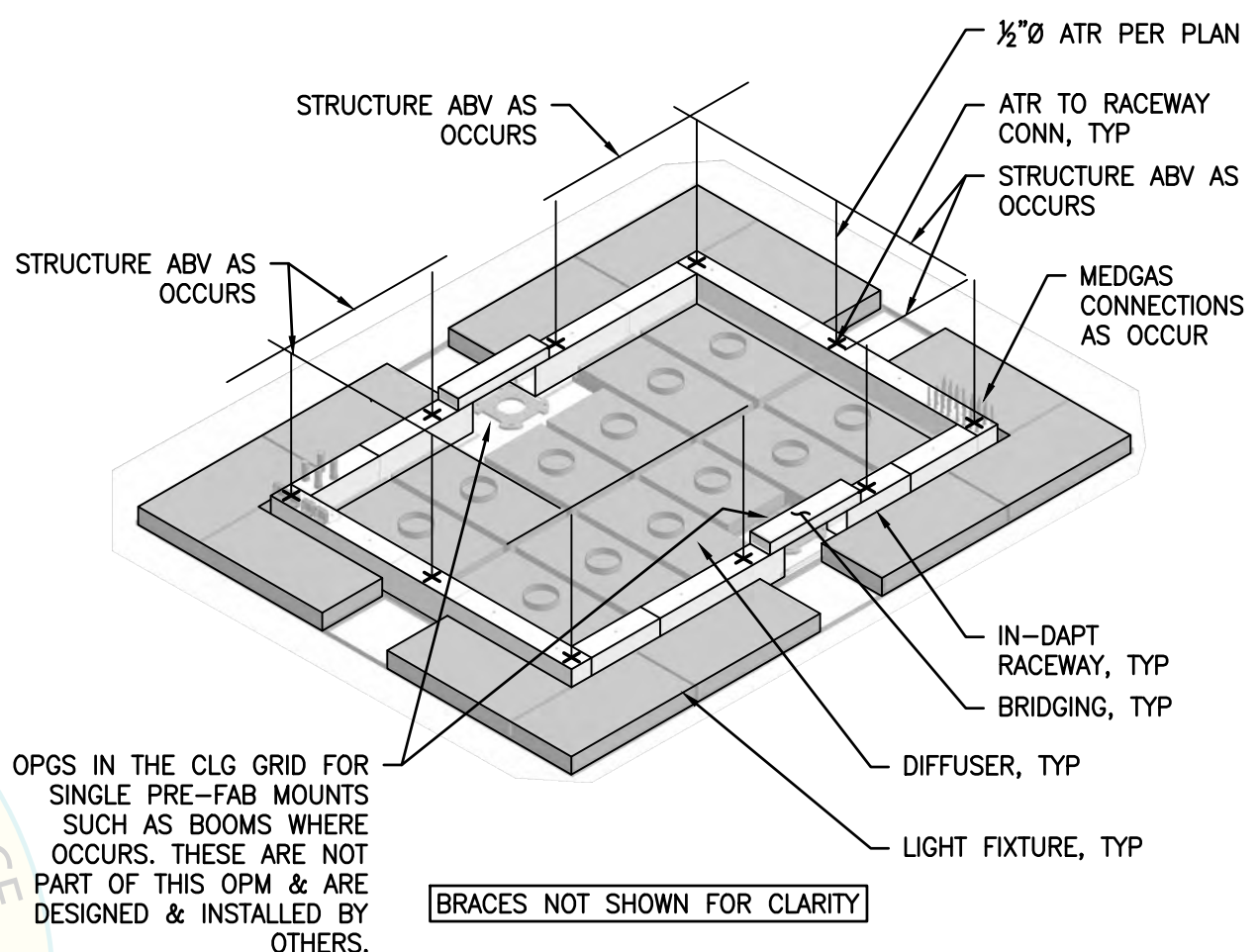
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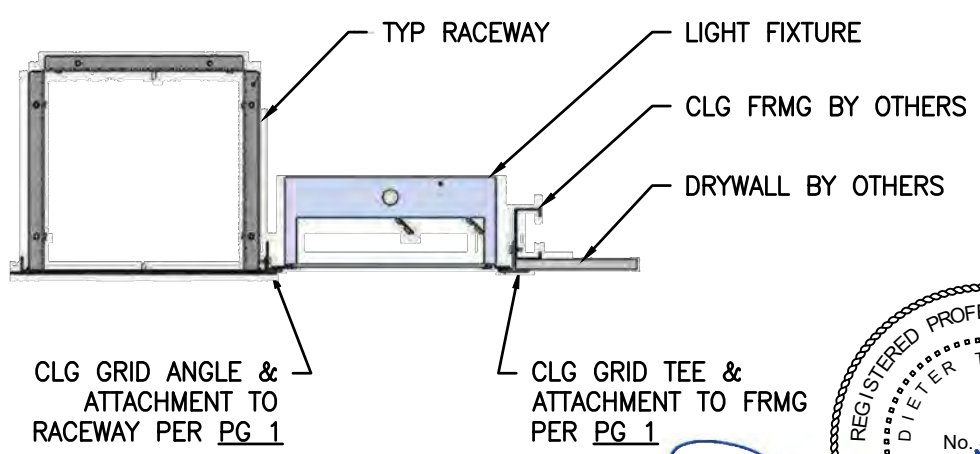
FRAMING PLAN AT TOP OF RACEWAY



- NOTES:**
1. REFERENCE WHR SUBMITTAL PACKAGE FOR LIGHTING AND DIFFUSER INFORMATION.
 2. REFERENCE PROJECT CONSTRUCTION DOCUMENTS FOR SPECIFIC ELECTRICAL CIRCUITING INFORMATION.
 3. FINAL CONNECTION OF LIGHT TROFFERS AND DIFFUSERS IS BY OTHERS.
 4. BRIDGING OVER PRE-FAB MOUNTS IS OPTIONAL; IF THERE ARE NO PRE-FAB MOUNTS THEN THE RACEWAY WILL BE CONTINUOUS.
 5. BRACES CAN BE INSTALLED W/ A 10 DEGREE OFFSET IN THE HORIZ DIRECTION TO ACCOUNT FOR OBSTRUCTIONS AT THE ATTACHMENT SURFACE THAT MAY BE ENCOUNTERED IN THE FIELD.
 6. DIFFUSERS & LIGHT FIXTURES ARE SUPPORTED BY PROFILES PROVIDED BY IN-DAPT, SEE DTL 1 THIS SHEET. THE REMAINING CLG IS EITHER A STANDARD HARDLID CLG PROVIDED BY OTHERS (THIS SHEET) OR THE COMPLETE ACCESS CLG SYSTEM PROVIDED BY IN-DAPT SHOWN ON PG 12.



ISOMETRIC



DETAIL 01
LIGHT FIXTURE SUPPORT



SHEET TITLE: FRAMING PLAN AT TOP OF RACEWAY -
MODEL No. 812 (14'x18')

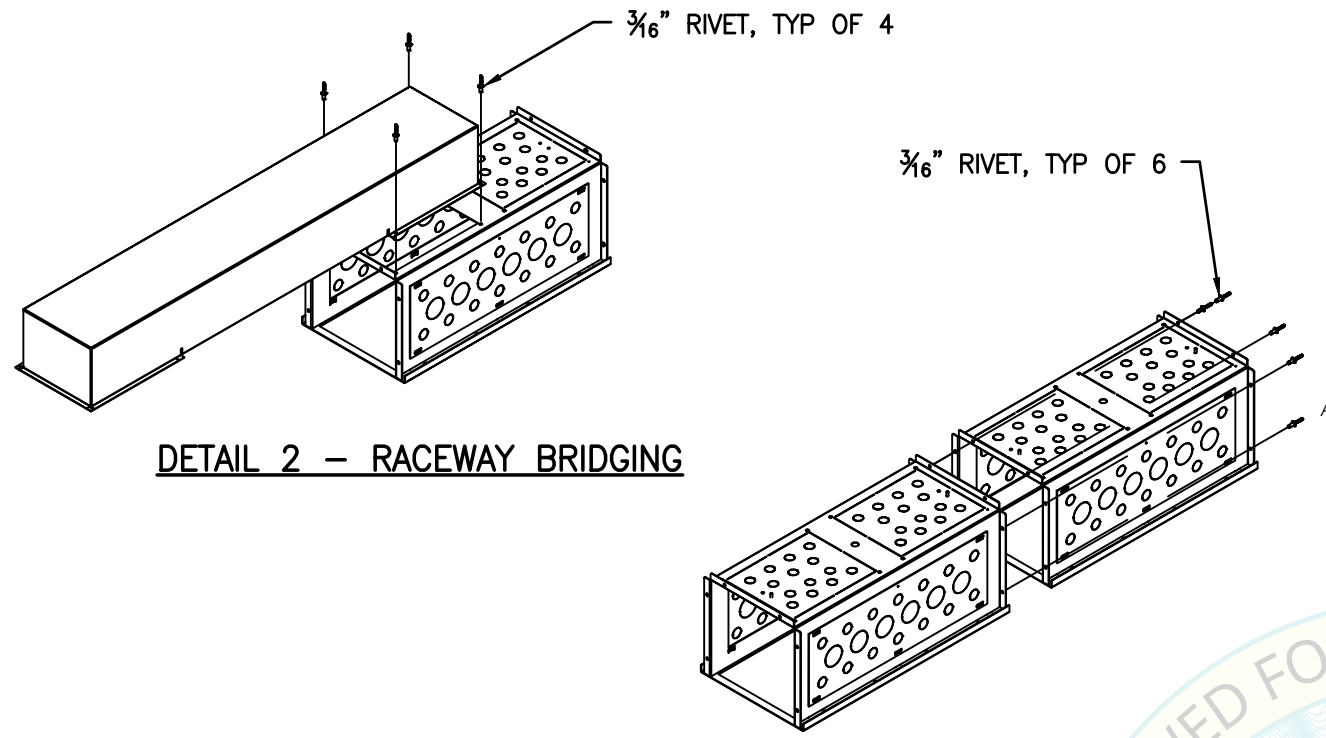


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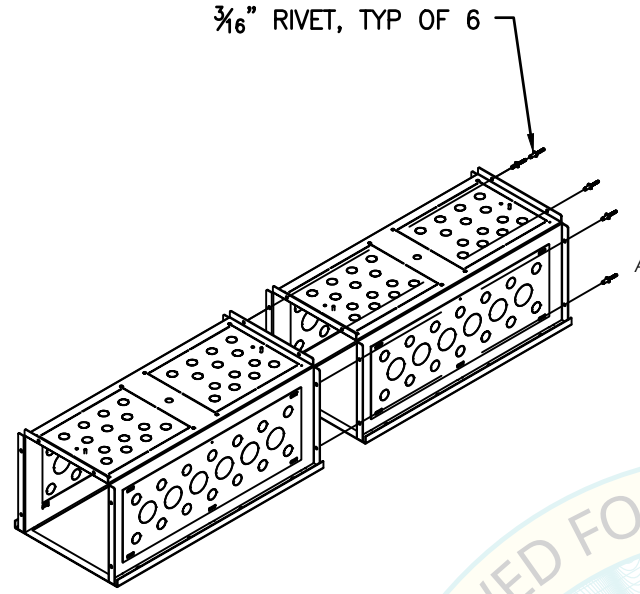


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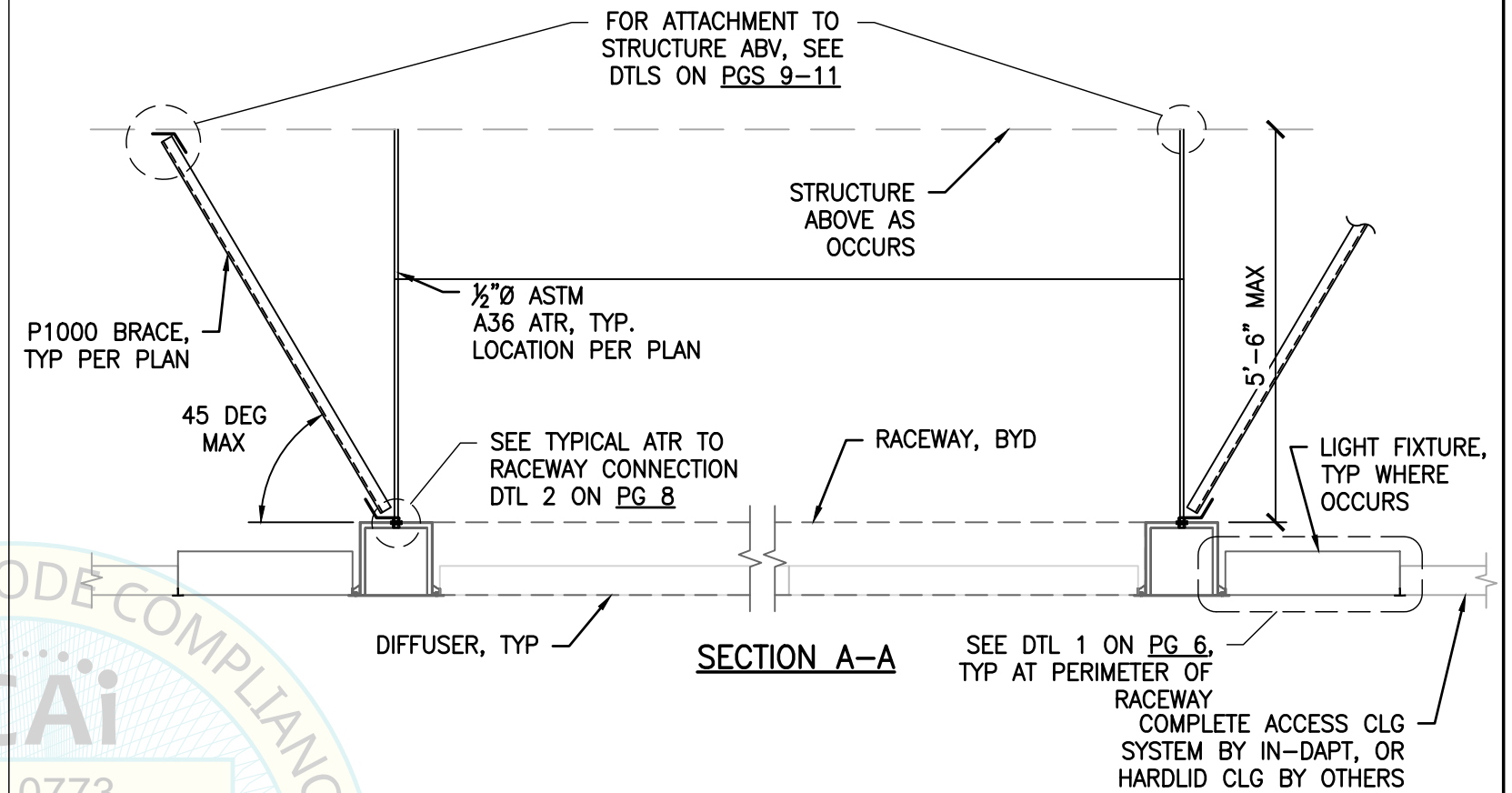
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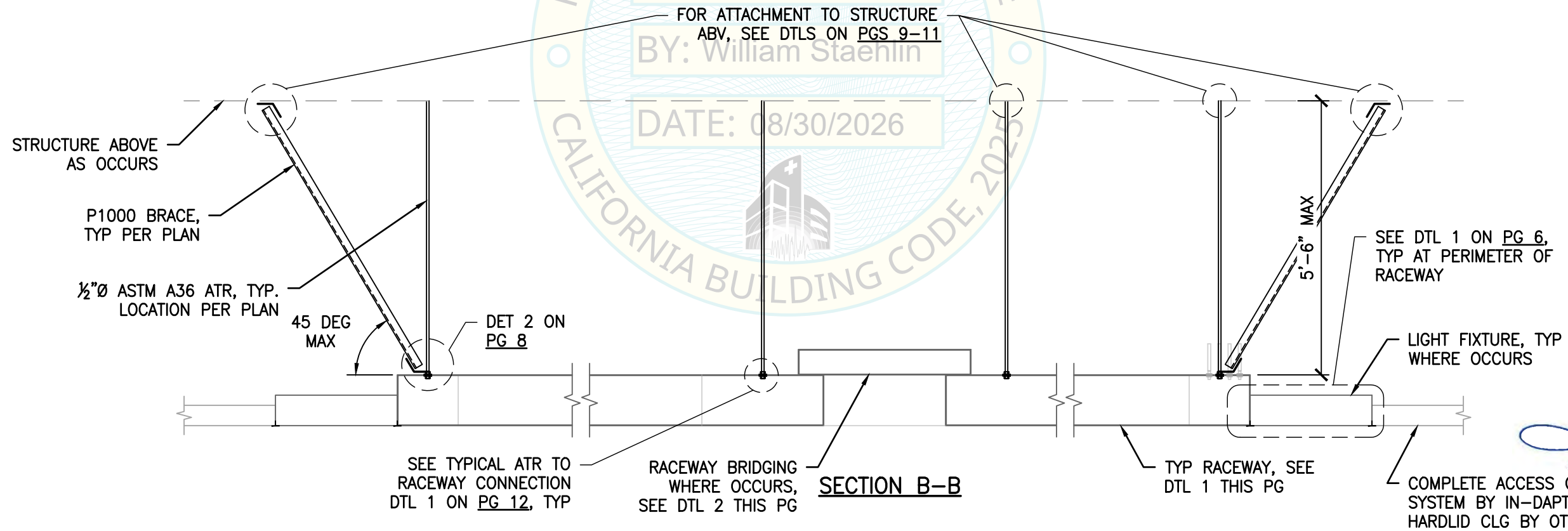
DETAIL 2 - RACEWAY BRIDGING



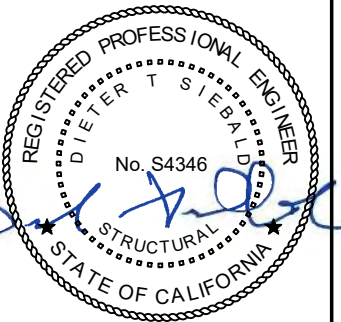
DETAIL 1 - TYPICAL RACEWAY



SECTION A-A



SECTION B-B



SHEET TITLE: FRAMING SECTIONS AT RACEWAY -
MODEL No. 812 (14'x18')



IN-DAPT
RACEWAY & CEILING SUPPORTS



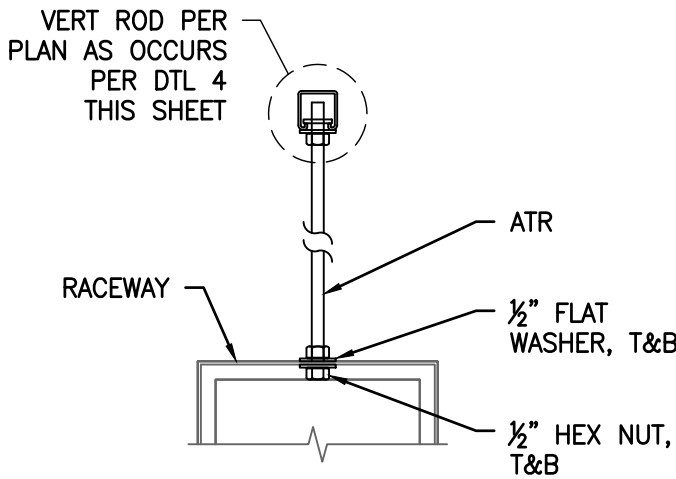
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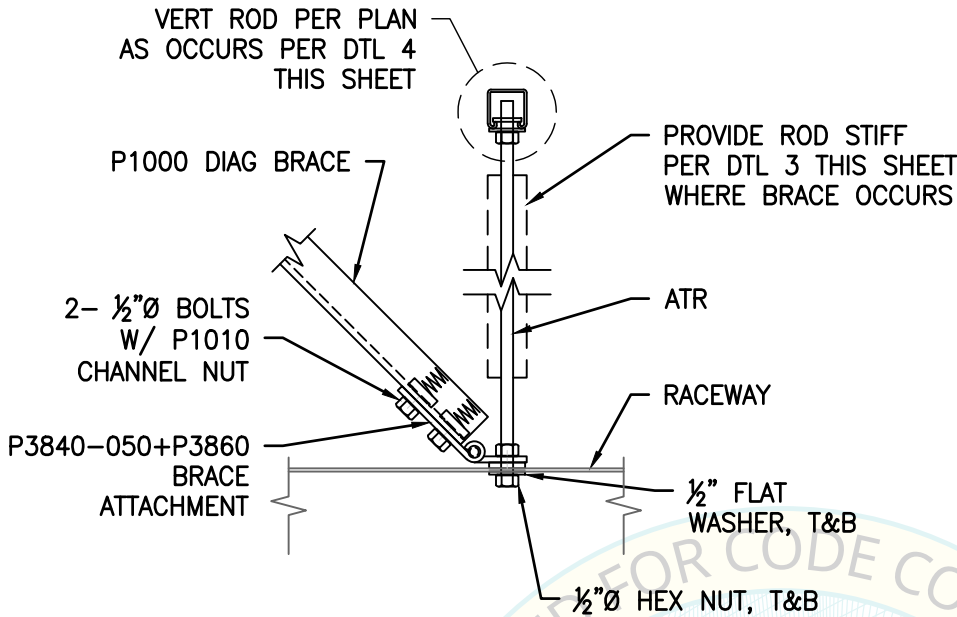
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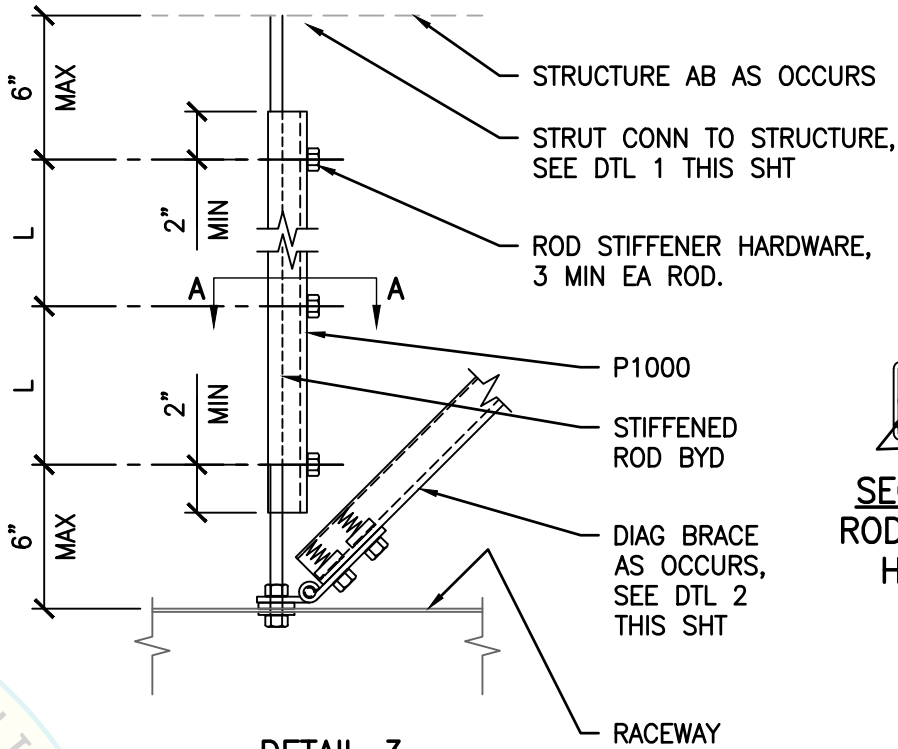
STRUT DETAILS:



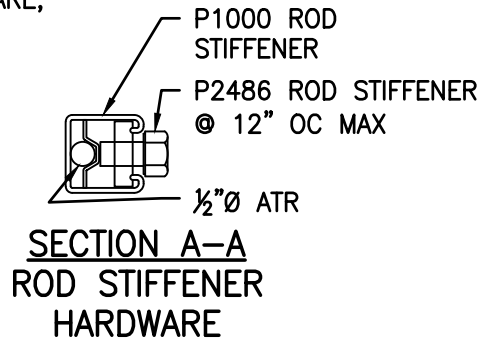
DETAIL 1
TYPICAL ATR CONNECTION
AT BOT



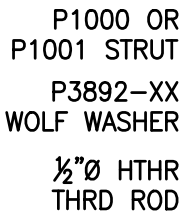
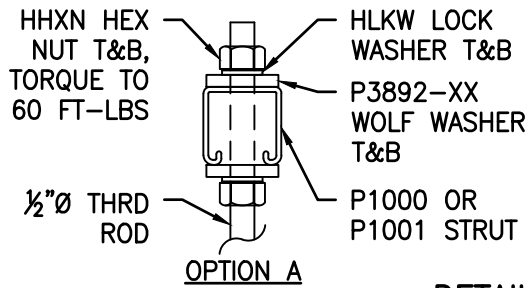
DETAIL 2
DIAG BRACE CONNECTION
AT BOT



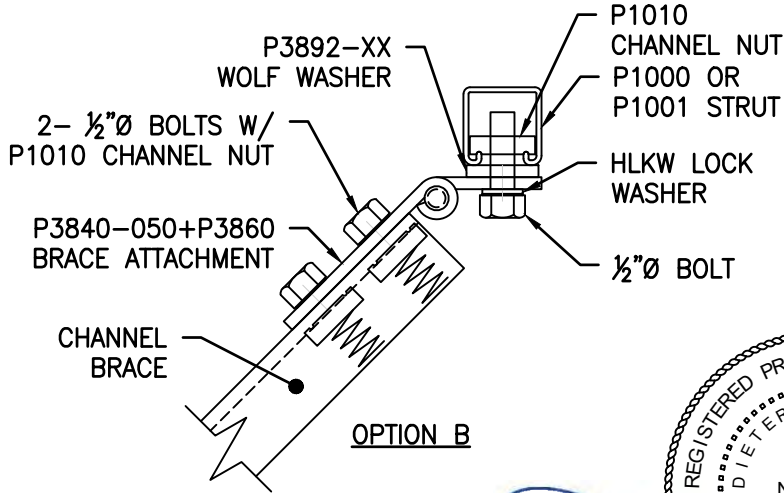
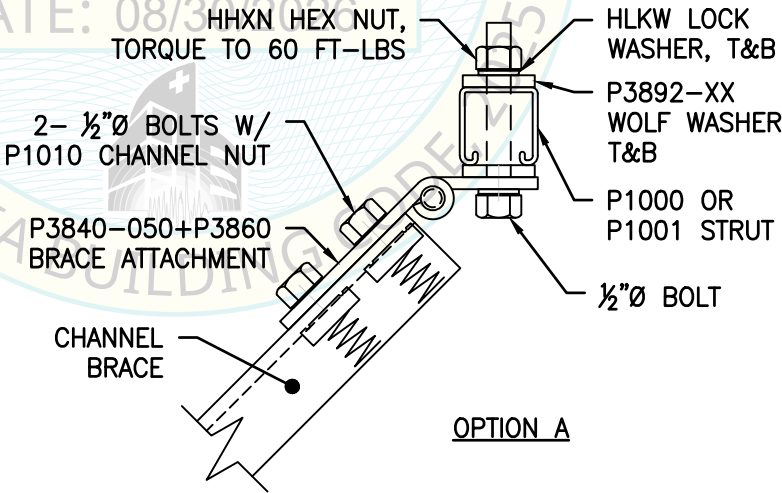
DETAIL 3
STIFFENED ROD AT BRACE



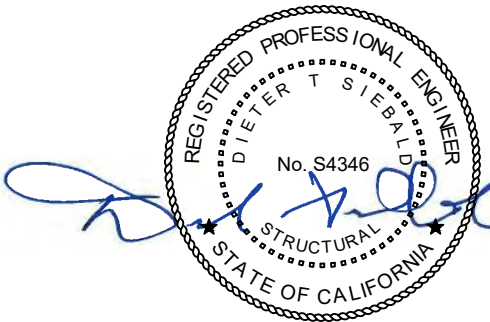
APPROVED ALTERNATE BRACE ATTACHMENTS**
UNISTRUT P3812-050
UNISTRUT P1354AW
UNISTRUT P3820-050+P3860



DETAIL 4
TYPICAL ATR CONNECTION
AT TOP



DETAIL 5
DIAG BRACE CONNECTION
AT TOP



SHEET TITLE: STRUT DETAILS



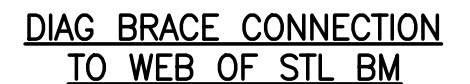
IN-DAPT
RACEWAY & CEILING SUPPORTS



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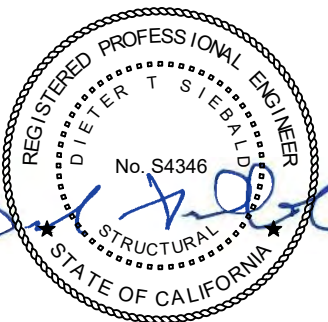
1. VERT ROD OR DIAG BRACE CAN BE LOCATED ANYWHERE LONG SPAN,
2. BRACES SHALL BE PARALLEL TO STRUT SUPPORT.
3. SEOR SHALL DESIGN SUPPORT(S) FOR LOADING CONDITIONS THAT DIFFER FROM THOSE SHOWN.
4. CONNECTIONS BETWEEN THE CLG SYSTEM & THE SUPPORTING STL BEAMS CANNOT OCCUR IN A PROTECTED ZONE AS DEFINED IN AISC 341.

IN | DAPT

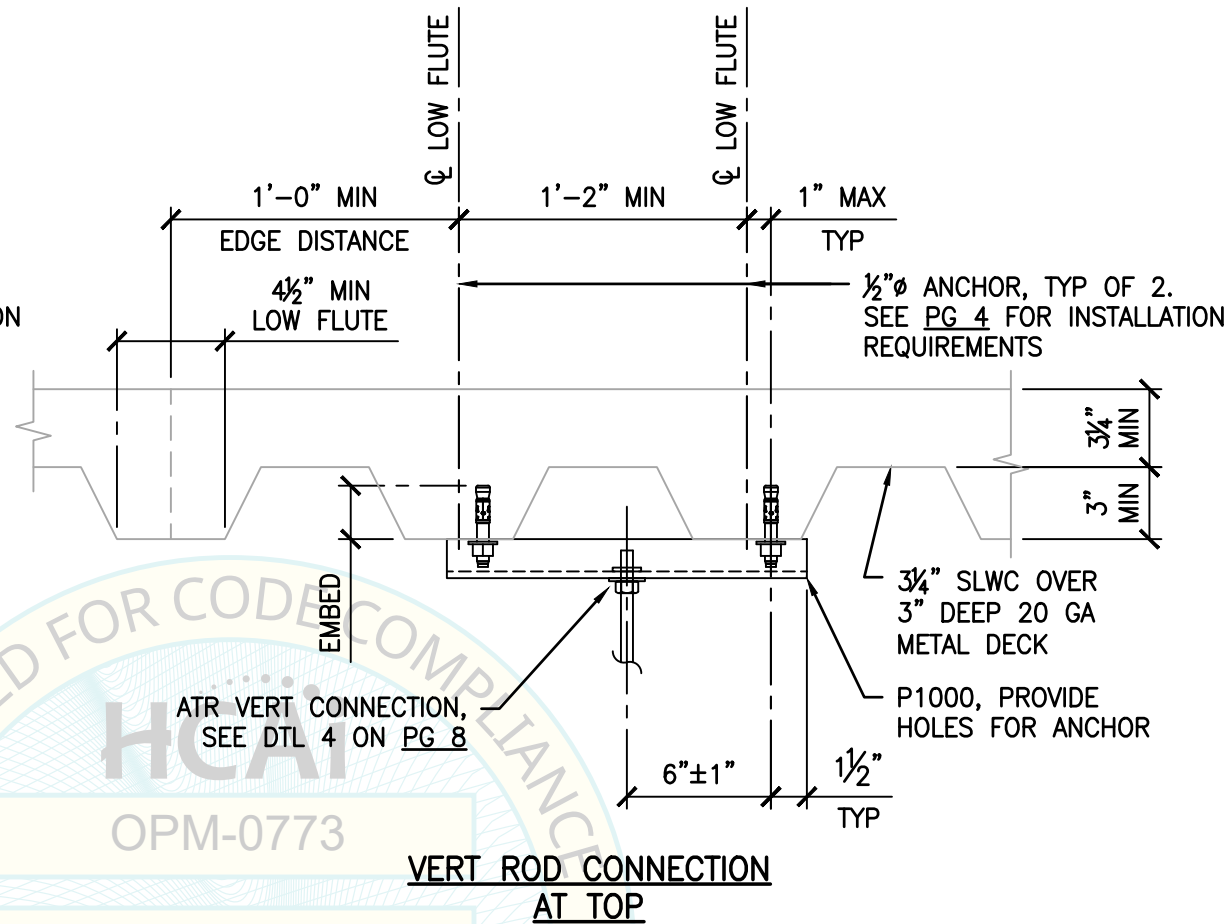


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C:\Users\camachom\AppData\Local\Temp\AcPublish_42160\S1_25030.dwg Time:Aug21,2026-01:19pm Login:camachom Dimstyle:1 LTScale:6



OVER
20 GA
CK

PROVIDE
OR ANCHOR

EMBED

ATR VERT CONNECTION,
SEE DTL 4 ON PG 8

VERT ROD CO
AT TO

REVIEWED FOR CODE COMPLIANCE

OPM-0773

BY: William Staehlin

DATE: 08/30/2026

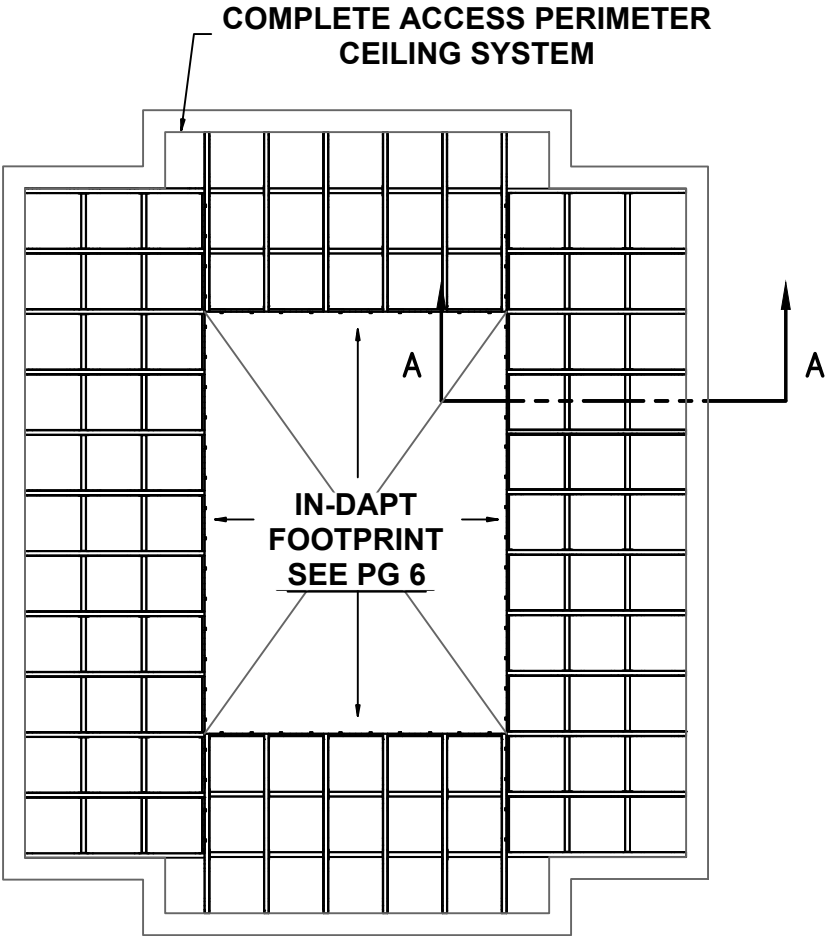
CALIFORNIA BUILDING CODE, 2025

08/30/2026

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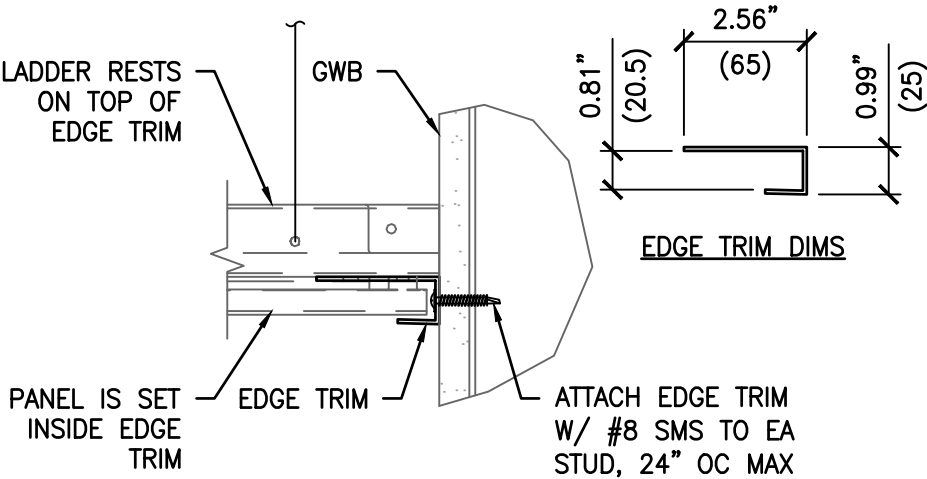
08/30/2026

COMPLETE ACCESS PERIMETER CEILING SYSTEM

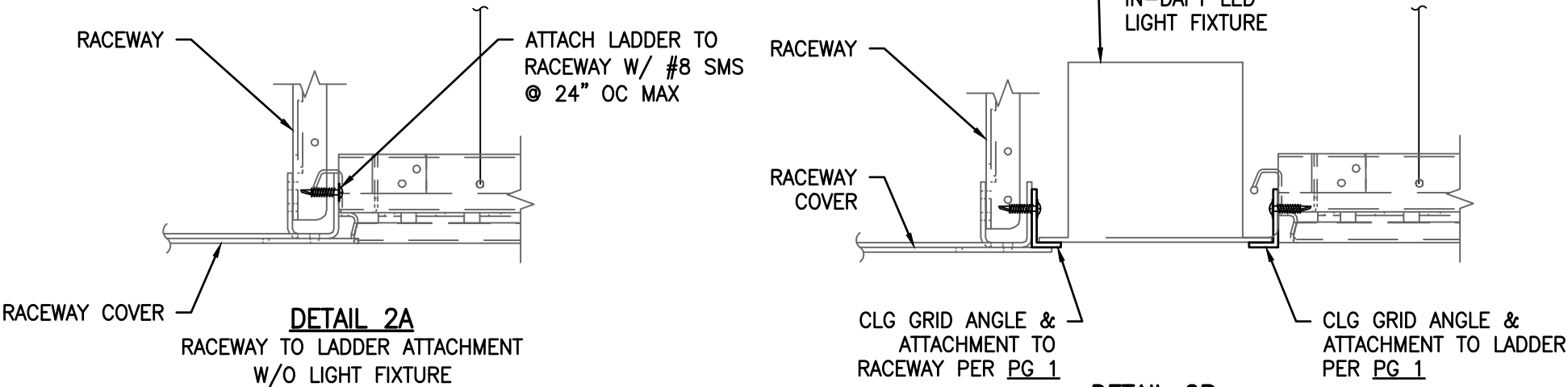


PLAN SHOWN IS FOR GENERAL REFERENCE ONLY.
FINAL WALL LAYOUT TO BE DETERMINED IN FIELD

FRAMING PLAN
AT TOP OF CLG & RACEWAY



DETAIL 1
LADDER ATTACHMENT TO WALL

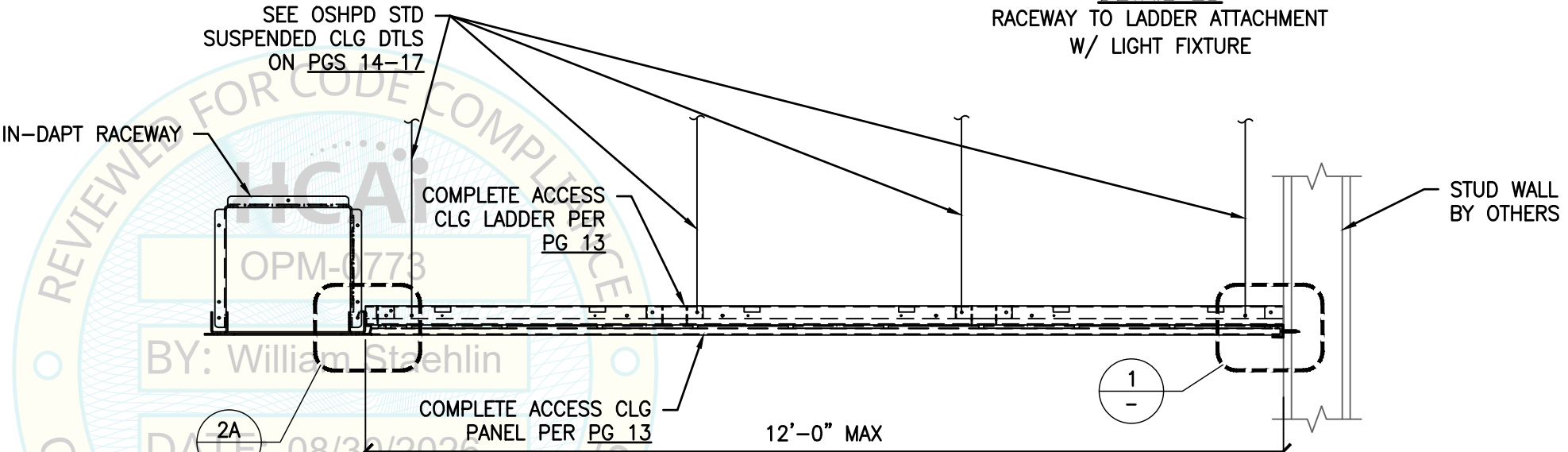


DETAIL 2A

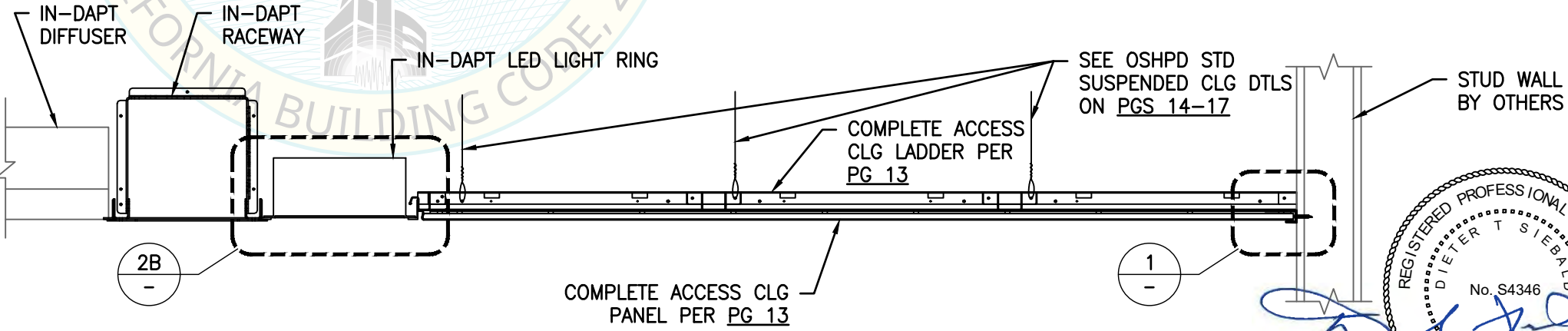
RACEWAY TO LADDER ATTACHMENT
W/O LIGHT FIXTURE

DETAIL 2B

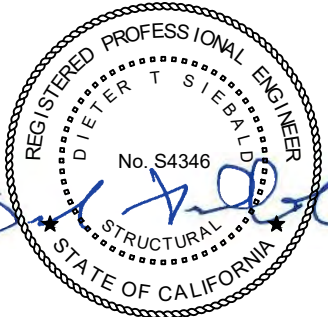
RACEWAY TO LADDER ATTACHMENT
W/ LIGHT FIXTURE



TYPICAL SECTION A-A
W/O DIFFUSER



TYPICAL SECTION A-A
WITHOUT DIFFUSER



SHEET TITLE: COMPLETE ACCESS PERIMETER CEILING SYSTEM



IN-DAPT
RACEWAY & CEILING SUPPORTS



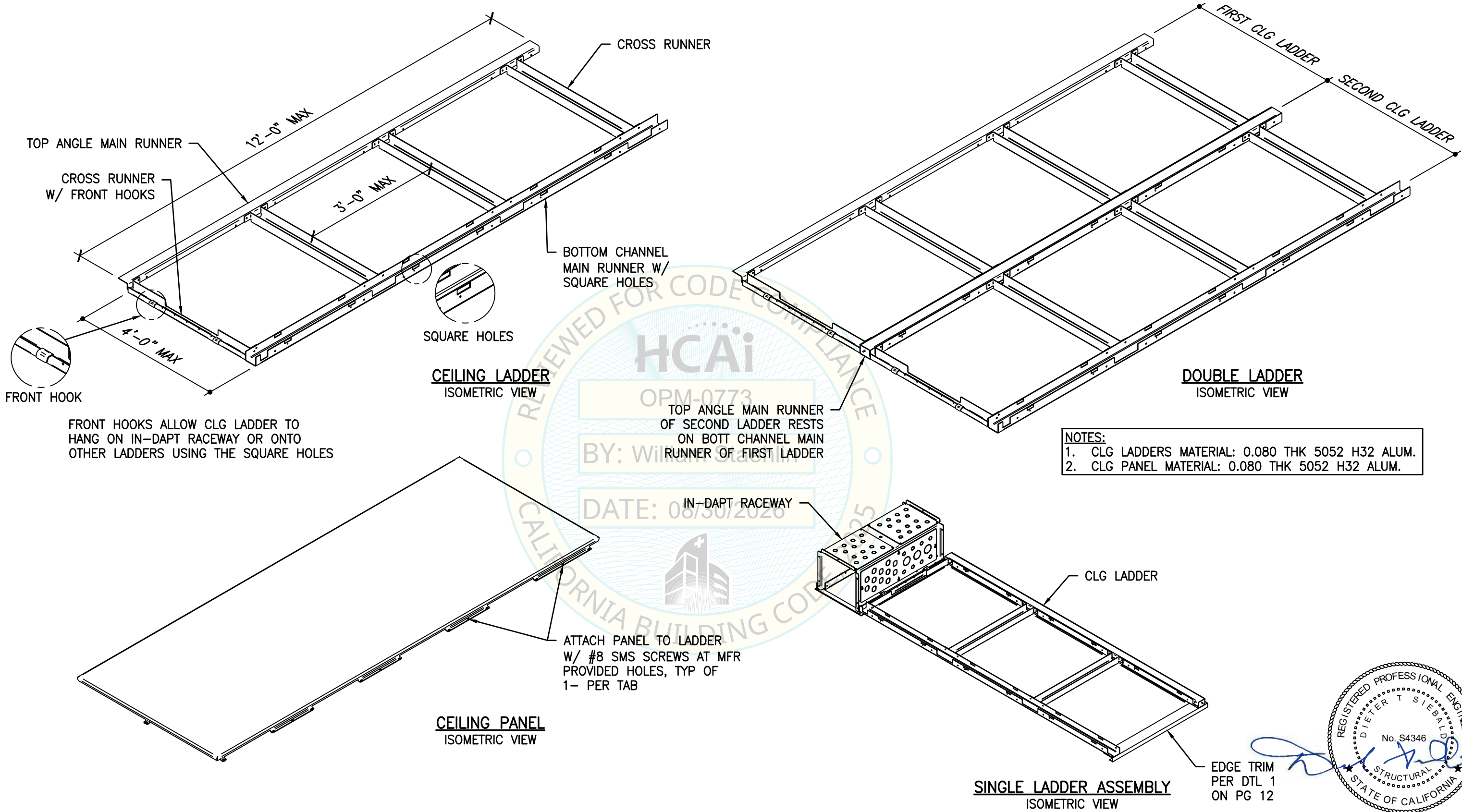
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TYPICAL CEILING DETAILS:



SHEET TITLE: TYPICAL CEILING LADDER DETAILS



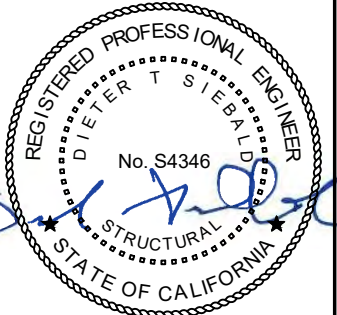
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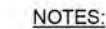
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OSHPD STANDARD SUSPENDED CEILING DETAILS HAVE BEEN ADDED FOR REFERENCE ONLY. THE INSTALLATION OF THE CEILING LADDERS WILL CLOSELY FOLLOW THE STANDARD SUSPENDED CEILING DETAILS.



1. SEE SUSPENDED CEILING NOTES #13 & #14 ON CL0.02 SEE PG 24 OF THIS OPM
2. STRUTS SHALL NOT REPLACE HANGER WIRES.
3. FOR CONDITIONS AT CORRIDOR SEE DRAWING NO. CL2.30 CORRIDORS DO NOT APPLY TO THIS OPM

Section Title : OSHPD STANDARD SUSPENDED CEILING DETAILS

OPD No.

Sheet Title : **SUSPENDED CEILING BRACING ASSEMBLY**

CL2.10

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1. BRACING WIRES AND COMP. STRUT SHALL OCCUR AT EVERY 64 SQ. FT. MAX. IN ROOMS OVER 64 SQ. FT.
2. RDP MAY ELECT TO SPECIFY TIGHTER SPACING BETWEEN BRACING WIRES AND COMP. STRUTS TO ALLOW SMALLER ANCHORS PER SCHEDULES ON SHEETS CL4.31 & CL6.60. PGS 20 & 24

Section Title : OSHPD STANDARD SUSPENDED CEILING DETAILS

OPD No:

Sheet Title : TYPICAL CEILING PLAN FOR
 $S_{ps} \leq 1.671$ AND $z/h \leq 1.0$

CL2.20

05/11/2017

OPD-0002-13: Reviewed for Code Compliance by Karim

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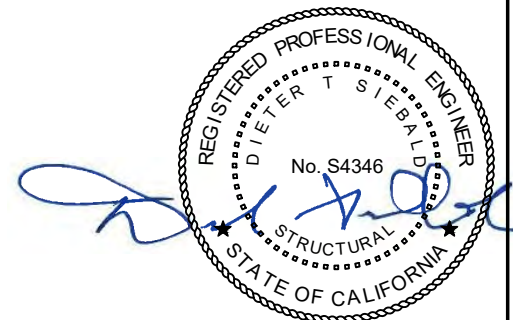
SHEET TITLE: SUSPENDED CEILING SEISMIC BRACING



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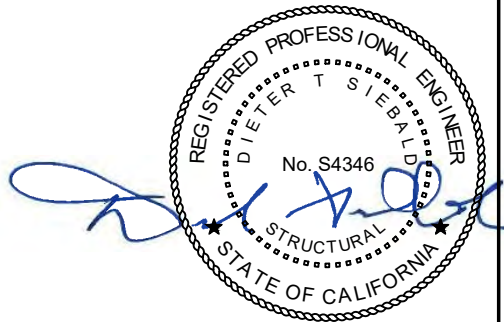
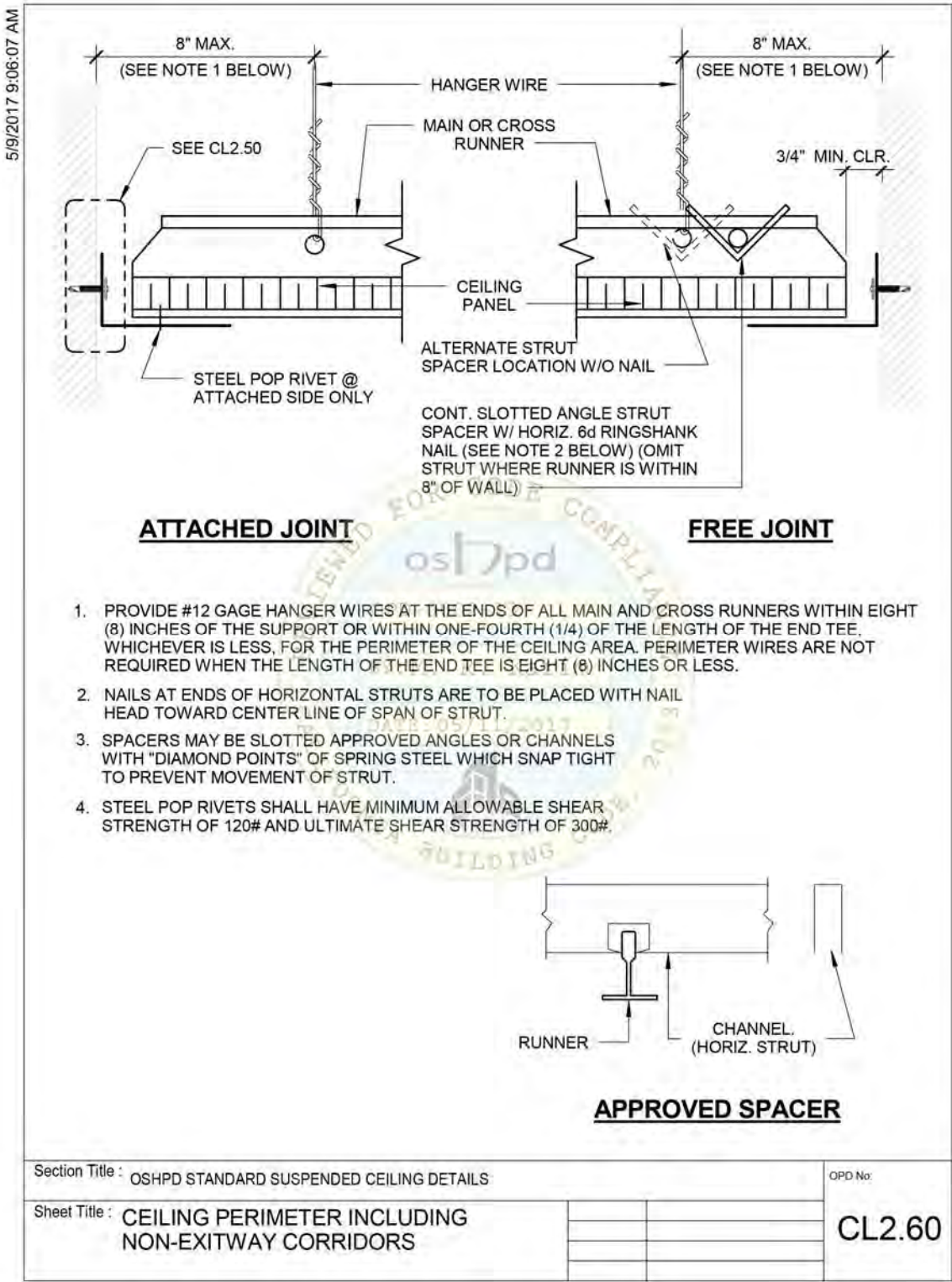
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SUSPENDED CEILING SEISMIC BRACING

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SHEET TITLE: SUSPENDED CEILING SEISMIC BRACING



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RACEWAY & CEILING SUPPORTS



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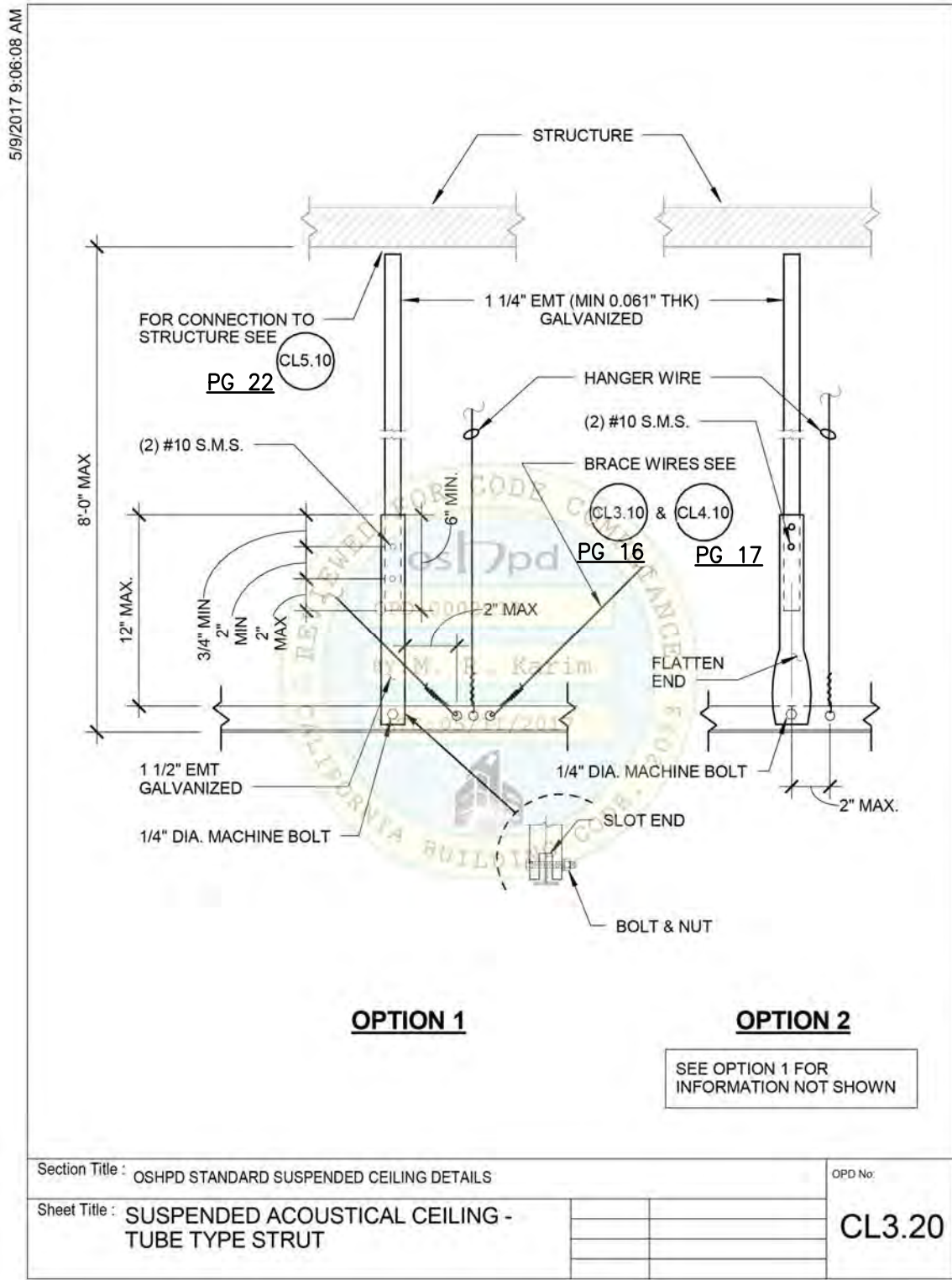
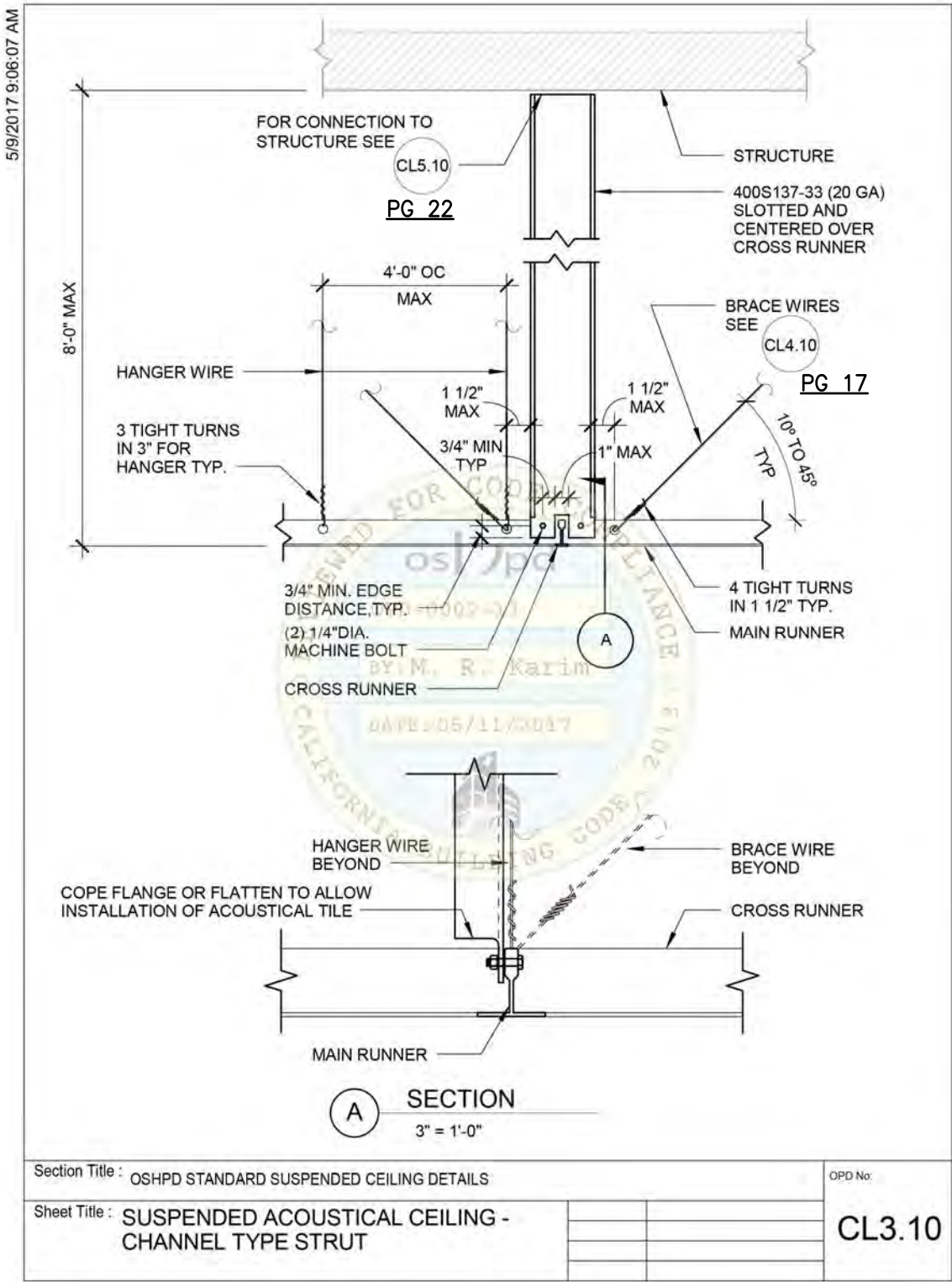
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SUSPENDED CEILING SEISMIC BRACING

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SHEET TITLE: SUSPENDED CEILING SEISMIC BRACING



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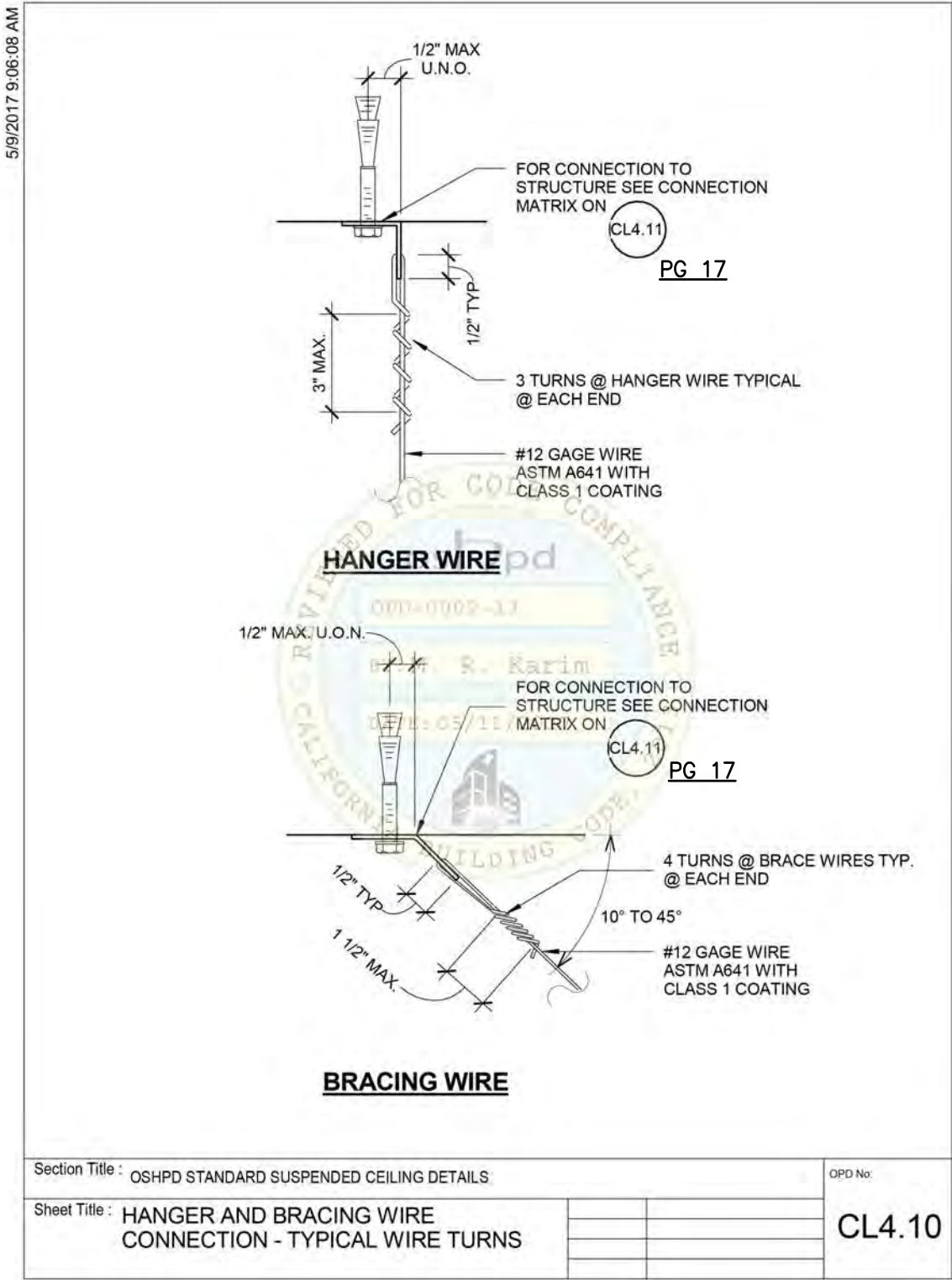
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SUSPENDED CEILING SEISMIC BRACING

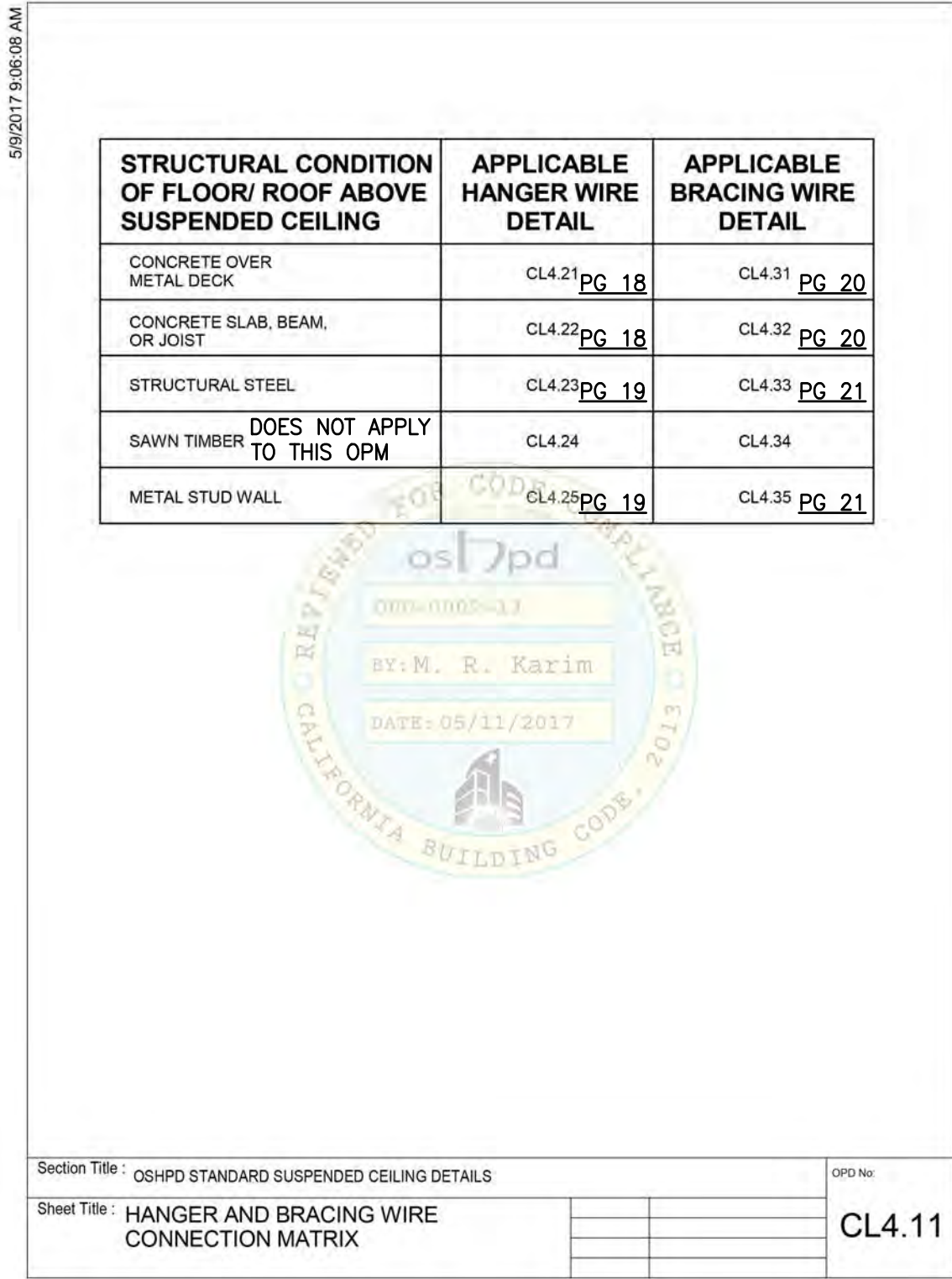
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SHEET TITLE: SUSPENDED CEILING SEISMIC BRACING



IN-DAPT
RACEWAY & CEILING SUPPORTS

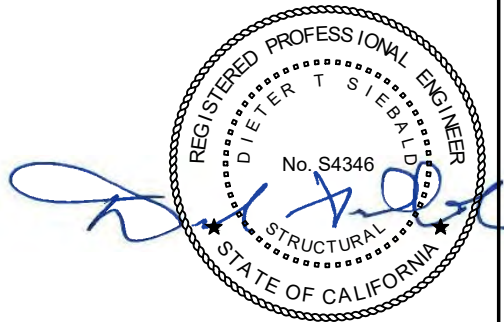


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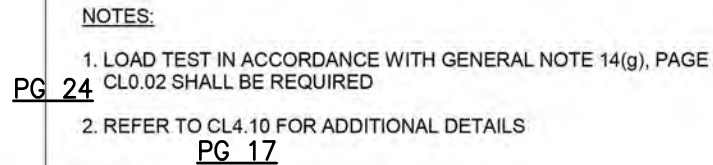
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OSHPD STANDARD SUSPENDED CEILING DETAILS HAVE BEEN ADDED FOR REFERENCE ONLY. THE INSTALLATION OF THE CEILING LADDERS WILL CLOSELY FOLLOW THE STANDARD SUSPENDED CEILING DETAILS.



Section Title : OSHPD STANDARD SUSPENDED CEILING DETAILS

Sheet Title : HANGER WIRE CONNECTION TO
CONCRETE OVER METAL DECK

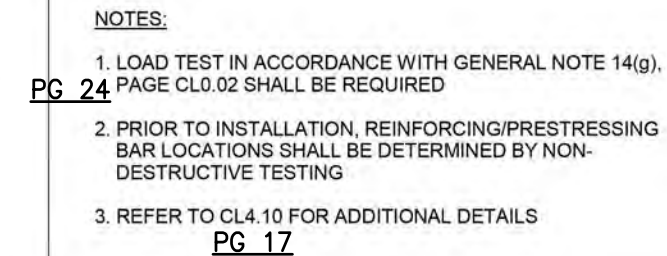
OPD No:	
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CL4.21

05/11/2017

OPD-0002-13: Reviewed for Code Compliance by Karim

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Section Title : OSHPD STANDARD SUSPENDED CEILING DETAILS

Sheet Title : **HANGER WIRE CONNECTION TO
CONCRETE SLAB, BEAM, OR JOIST**

OPD No:	
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CL4.22

05/11/2017

OPD-0002-13: Reviewed for Code Compliance by Karim

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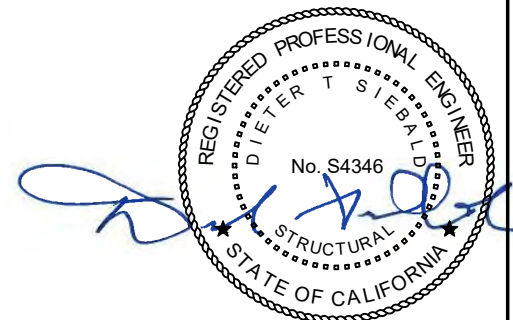
SHEET TITLE: SUSPENDED CEILING SEISMIC BRACING



2710 GATEWAY OAKS DRIVE, SUITE 190N
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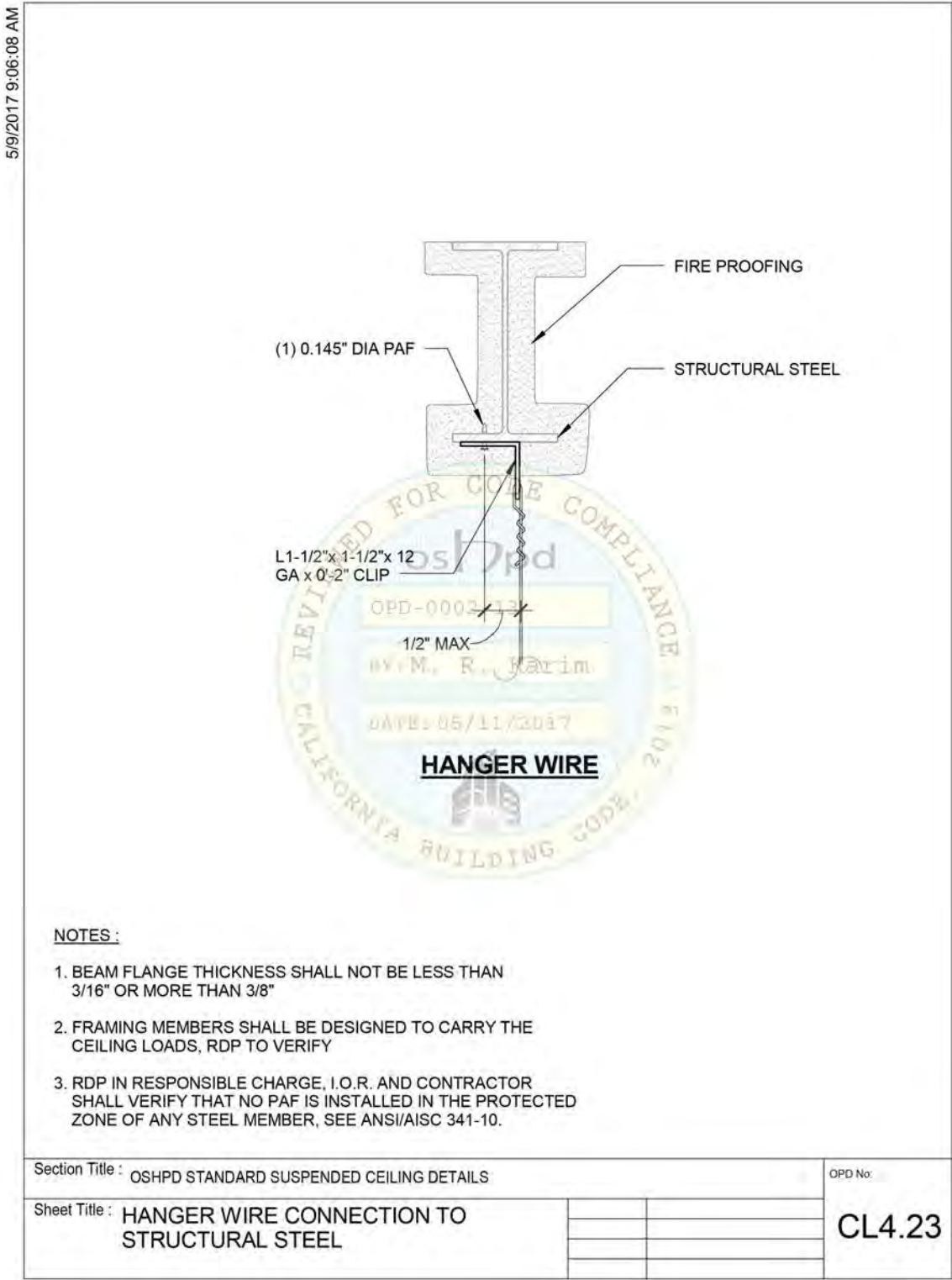
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				Date:	08/21/2026
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SUSPENDED CEILING SEISMIC BRACING

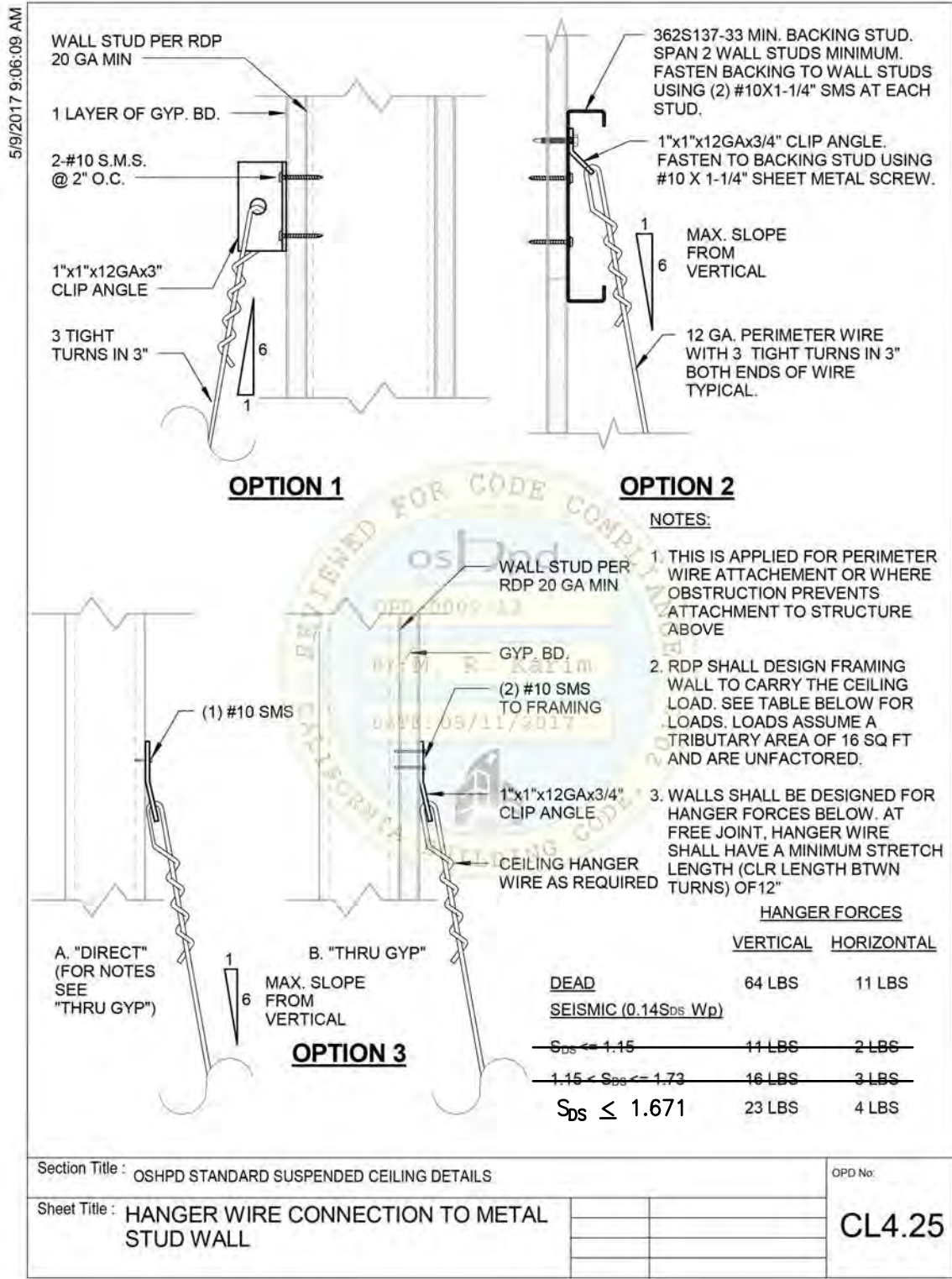
OSHDP STANDARD SUSPENDED CEILING DETAILS HAVE BEEN ADDED FOR REFERENCE ONLY. THE INSTALLATION OF THE CEILING LADDERS WILL CLOSELY FOLLOW THE STANDARD SUSPENDED CEILING DETAILS.



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SHEET TITLE: SUSPENDED CEILING SEISMIC BRACING



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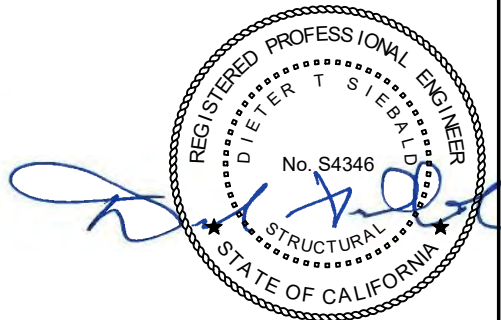


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SUSPENDED CEILING SEISMIC BRACING

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5/9/2017 9:06:09 AM

EXPANSION ANCHOR
PER SCHEDULE

LIGHTWEIGHT OR NORMAL
WEIGHT CONCRETE

1 1/2"x 1 1/2"x12GA x2"
CEILING CLIP, TYP

CL4.10

PG 17

1/2" MAX

OPTION 1

ANCHOR BOLT SIZE	SPLAY BRACE/COMP POST SPACING	S_{ps} (g) RANGE (z/h = 1.0)	DECK TYPE
5/8 x 4 1/4" EMBED	8' x 8' (PER CL2.20)	$S_{ps} \leq 1.671$ (PER CL2.20)	W3 + 3 1/4" MIN PER CL1.20
5/8 x 4 1/4" EMBED	8' x 12' (PER CL2.21)	$1.15 < S_{ps} \leq 1.73$ (PER CL2.21)	W3 + 3 1/4" MIN PER CL1.20
5/8 x 4 1/4" EMBED	12' x 12' (PER CL2.22)	$0 < S_{ps} \leq 1.15$ (PER CL2.22)	W3 + 3 1/4" MIN PER CL1.20
3/8 x 2" EMBED ³	8' x 8' (PER CL2.20) ³	$S_{ps} \leq 0.762$ (IN LIEU OF S_{ps} SHOWN ON CL2.20) ³	W3 + 3 1/4" MIN PER CL1.20 OR B 1 1/2" + 2 1/4" MIN PER CL1.22
3/8 x 2" EMBED ³	8' x 12' (PER CL2.21) ³	$0.51 < S_{ps} \leq 0.76$ (IN LIEU OF S_{ps} SHOWN ON CL2.21) ³	W3 + 3 1/4" MIN PER CL1.20 OR B 1 1/2" + 2 1/4" MIN PER CL1.22
3/8 x 2" EMBED ³	12' x 12' (PER CL2.22) ³	$0 < S_{ps} \leq 0.51$ (IN LIEU OF S_{ps} SHOWN ON CL2.22) ³	W3 + 3 1/4" MIN PER CL1.20 OR B 1 1/2" + 2 1/4" MIN PER CL1.22

LIGHTWEIGHT OR
NORMAL WEIGHT
CONCRETE

3/4" MIN
TYP

CL4.10

PG 17

OPTION 2

(2) 3/8" DIA EXPANSION
ANCHORS

1-1/2"x1-1/2"x12GA

PG 24

NOTES:

PG 14

1. LOAD TEST IN ACCORDANCE WITH GENERAL NOTE 14(g), PAGE CL0.02 SHALL BE REQUIRED

2. REFER TO CL4.10 FOR ADDITIONAL DETAILS

3. RDP CAN USE SMALLER EXPANSION BOLT SIZE AND SHALLOWER EMBEDMENT DEPTH SHOWN,
PROVIDED VERTICAL STRUT/BRACING WIRE SPACING IS REDUCED AS SHOWN, IN LIEU OF SPACINGS
SHOWN ON CL2.20, CL2.21, AND CL2.22.

Section Title : OSHDP STANDARD SUSPENDED CEILING DETAILS

OPD No.:

Sheet Title : BRACING WIRE CONNECTION TO
CONCRETE OVER METAL DECK

CL4.31

05/11/2017

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5/9/2017 9:06:09 AM

LIGHTWEIGHT OR NORMAL
WEIGHT CONCRETE SLAB.
DO NOT CONNECT BRACING
WIRE TO JOIST OR BEAM.

PER EXPANSION ANCHOR
SCHEDULE

CL4.10

PG 17

1/2" (MAX)

1 1/2" x 1 1/2"x12 GA x
2" CEILING CLIP

OPTION 1

ANCHOR BOLT SIZE	SPLAY BRACE/COMP POST SPACING	S_{ps} (g) RANGE (z/h = 1.0)
5/8 x 4 1/4" EMBED	8'x8' (PER CL2.20)	$S_{ps} \leq 1.671$ (PER CL2.20)
5/8 x 4 1/4" EMBED	8'x12' (PER CL2.21)	$1.15 < S_{ps} \leq 1.73$ (PER CL2.21)
5/8 x 4 1/4" EMBED	12'x12' (PER CL2.22)	$0 < S_{ps} \leq 1.15$ (PER CL2.22)
3/8 x 2" EMBED ³	8'x8' (PER CL2.20) ³	$S_{ps} \leq 0.762$ (IN LIEU OF S_{ps} SHOWN ON CL2.20) ³
3/8 x 2" EMBED ³	8'x12' (PER CL2.21) ³	$0.83 < S_{ps} \leq 1.24$ (IN LIEU OF S_{ps} SHOWN ON CL2.21) ³
3/8 x 2" EMBED ³	12'x12' (PER CL2.22) ³	$0 < S_{ps} \leq 0.83$ (IN LIEU OF S_{ps} SHOWN ON CL2.22) ³

NOTES:

PG 24

1. LOAD TEST IN ACCORDANCE WITH GENERAL NOTE 14(g), PAGE CL0.02 SHALL BE REQUIRED.

2. REFER TO CL4.10 FOR ADDITIONAL DETAILS.

3. RDP CAN USE SMALLER EXPANSION BOLT SIZE AND SHALLOWER EMBEDMENT DEPTH SHOWN,
PROVIDED VERTICAL STRUT/BRACING WIRE SPACING IS REDUCED AS SHOWN, IN LIEU OF SPACINGS
SHOWN ON CL2.20, CL2.21, AND CL2.22.

Section Title : OSHDP STANDARD SUSPENDED CEILING DETAILS

OPD No.:

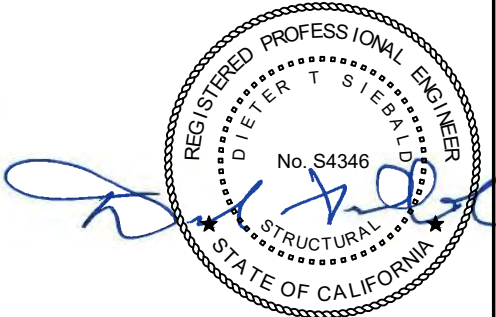
Sheet Title : BRACING WIRE CONNECTION TO
CONCRETE SLAB, BEAM, OR JOIST

CL4.32

05/11/2017

OPD-0002-13: Reviewed for Code Compliance by Karim

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SHEET TITLE: SUSPENDED CEILING SEISMIC BRACING



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SUSPENDED CEILING SEISMIC BRACING

OSHDP STANDARD SUSPENDED CEILING DETAILS HAVE BEEN ADDED FOR REFERENCE ONLY. THE INSTALLATION OF THE CEILING LADDERS WILL CLOSELY FOLLOW THE STANDARD SUSPENDED CEILING DETAILS.

5/9/2017 9:06:09 AM

NOTES :

1. BEAM FLANGE THICKNESS SHALL NOT BE LESS THAN 3/16\"
2. FRAMING MEMBERS SHALL BE DESIGNED TO CARRY THE CEILING LOADS, RDP TO VERIFY
3. RDP IN RESPONSIBLE CHARGE, I.O.R. AND CONTRACTOR SHALL VERIFY THAT NO PAF IS INSTALLED IN THE PROTECTED ZONE OF ANY STEEL MEMBER, SEE ANSI/AISC 341-10.

Section Title : OSHDP STANDARD SUSPENDED CEILING DETAILS

Sheet Title : BRACING WIRE CONNECTION TO STRUCTURAL STEEL

CL4.33

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NOTES:

1. RDP SHALL DESIGN FRAMING WALL TO CARRY THE CEILING LOAD PER NOTE #2.
2. SEISMIC BRACE WIRE FORCE = 473 LBS (LRFD LOAD). BRACING WIRE SHALL HAVE A MINIMUM STRETCH LENGTH (CLR LENGTH BTWN TURNS) OF 12", WHEN USED AT FREE JOINT.
3. APPLIES WHERE CLIP ATTACHED DIRECTLY TO WALL STUD.

Section Title : OSHDP STANDARD SUSPENDED CEILING DETAILS

Sheet Title : BRACING WIRE CONNECTION TO METAL STUD WALL

CL4.35

SHEET TITLE: SUSPENDED CEILING SEISMIC BRACING



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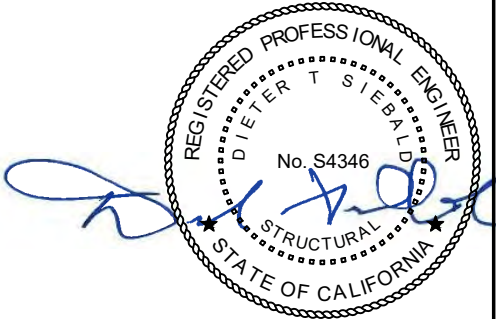


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SUSPENDED CEILING SEISMIC BRACING

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5/9/2017 9:06:10 AM

STRUCTURAL CONDITION OF FLOOR / ROOF ABOVE STRUT	APPLICABLE DETAIL
CONCRETE OVER METAL DECK	CL5.20 PG 22
CONCRETE SLAB, BEAM, OR JOIST	CL5.30 PG 23
STRUCTURAL STEEL	CL5.40 PG 23
SAWN TIMBER WITH GYPSUM BOARD	CL5.50
SAWN TIMBER WITHOUT GYPSUM BOARD	CL5.60

DOES NOT APPLY TO THIS OPM
DOES NOT APPLY TO THIS OPM

BY: M. R. Karim

DATE: 05/11/2017

Section Title : OSHDP STANDARD SUSPENDED CEILING DETAILS

OPD No:

Sheet Title : STRUT CONNECTION - CONNECTION MATRIX				

CL5.10

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OPTION 1

OPTION 2

OPTION 1

OPTION 2

CHANNEL STRUT

TUBE STRUT

3/8" DIA. EXPANSION ANCHOR @ CENTER OF FLUTE

FLATTEN END

PLACE TIGHT TO CLIP OR STRUCTURE

3/8" DIA. EXPANSION ANCHOR @ CENTER OF FLUTE

FLATTEN END

PLACE TIGHT TO CLIP OR STRUCTURE

3/8" DIA. EXPANSION ANCHOR @ CENTER OF FLUTE

FLATTEN END

PLACE TIGHT TO CLIP OR STRUCTURE

3/8" DIA. EXPANSION ANCHOR @ CENTER OF FLUTE

FLATTEN END

PLACE TIGHT TO CLIP OR STRUCTURE

Section Title : OSHDP STANDARD SUSPENDED CEILING DETAILS

OPD No:

Sheet Title : STRUT CONNECTION TO CONCRETE OVER METAL DECK				

CL5.20

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OPD-0002-13: Reviewed for Code Compliance by Karim

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SHEET TITLE: SUSPENDED CEILING SEISMIC BRACING

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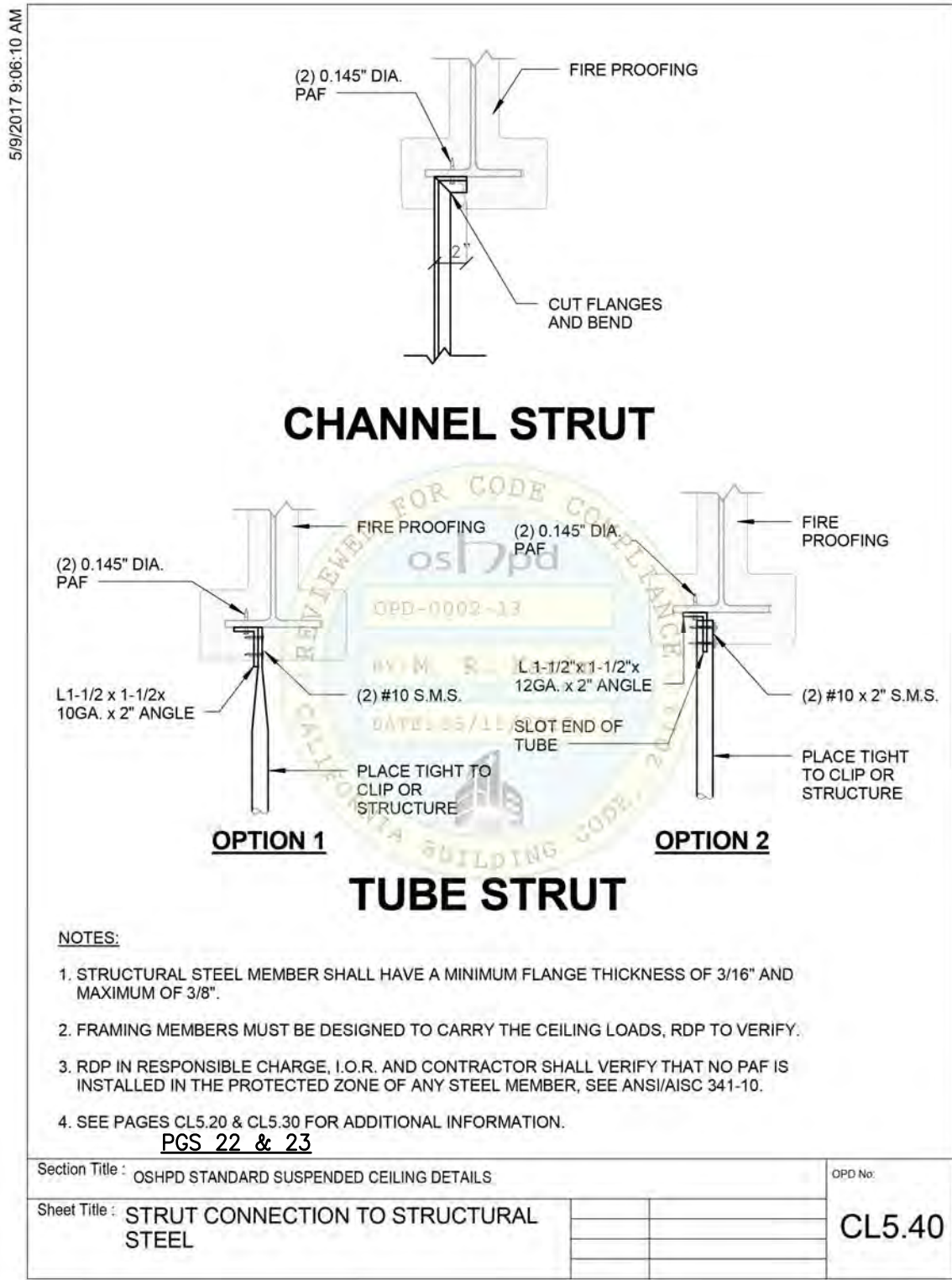
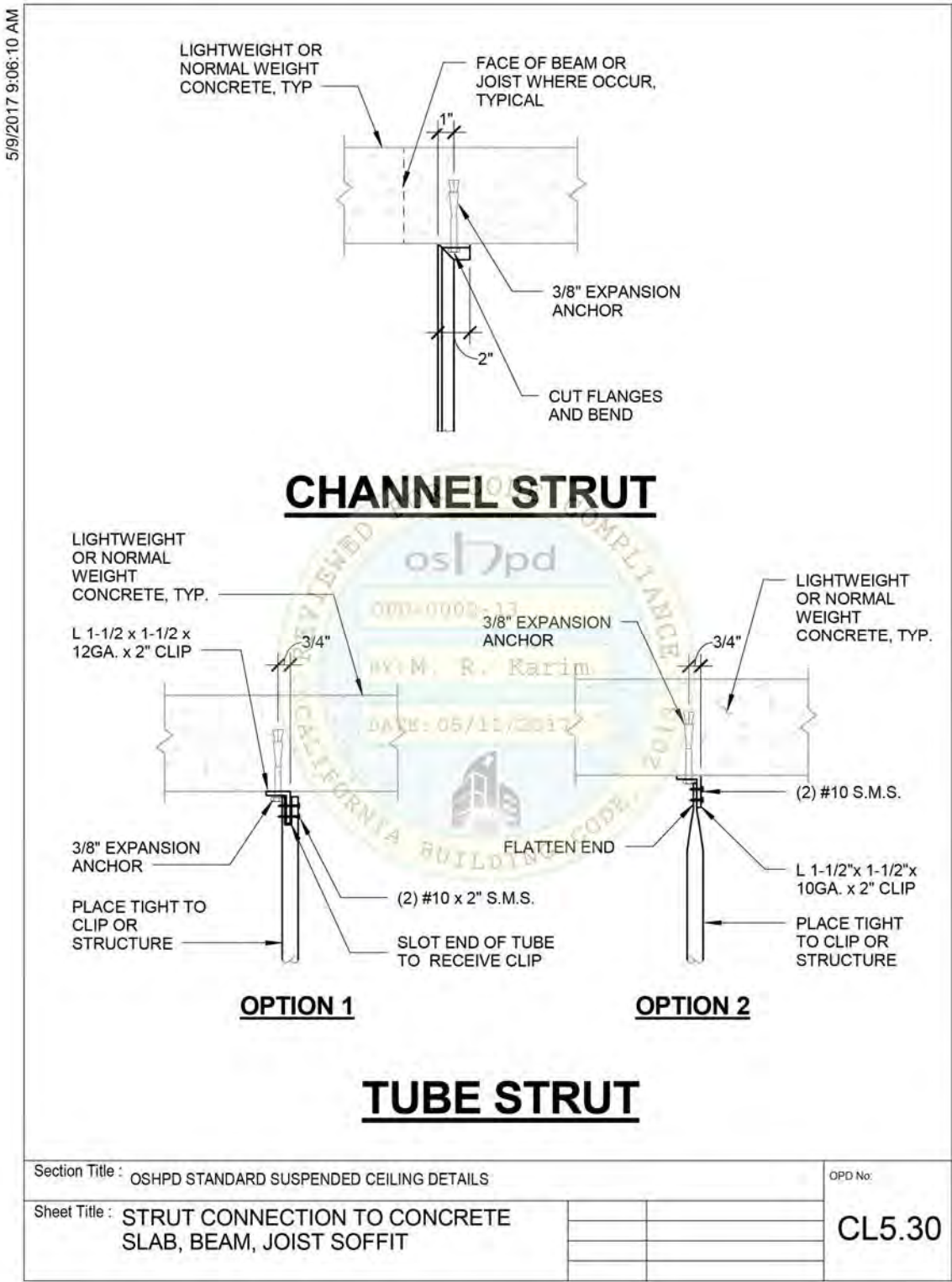
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08/30/2026

OPM-0773: Reviewed for Code Compliance by William Staehlin

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SUSPENDED CEILING SEISMIC BRACING



SHEET TITLE: SUSPENDED CEILING SEISMIC BRACING



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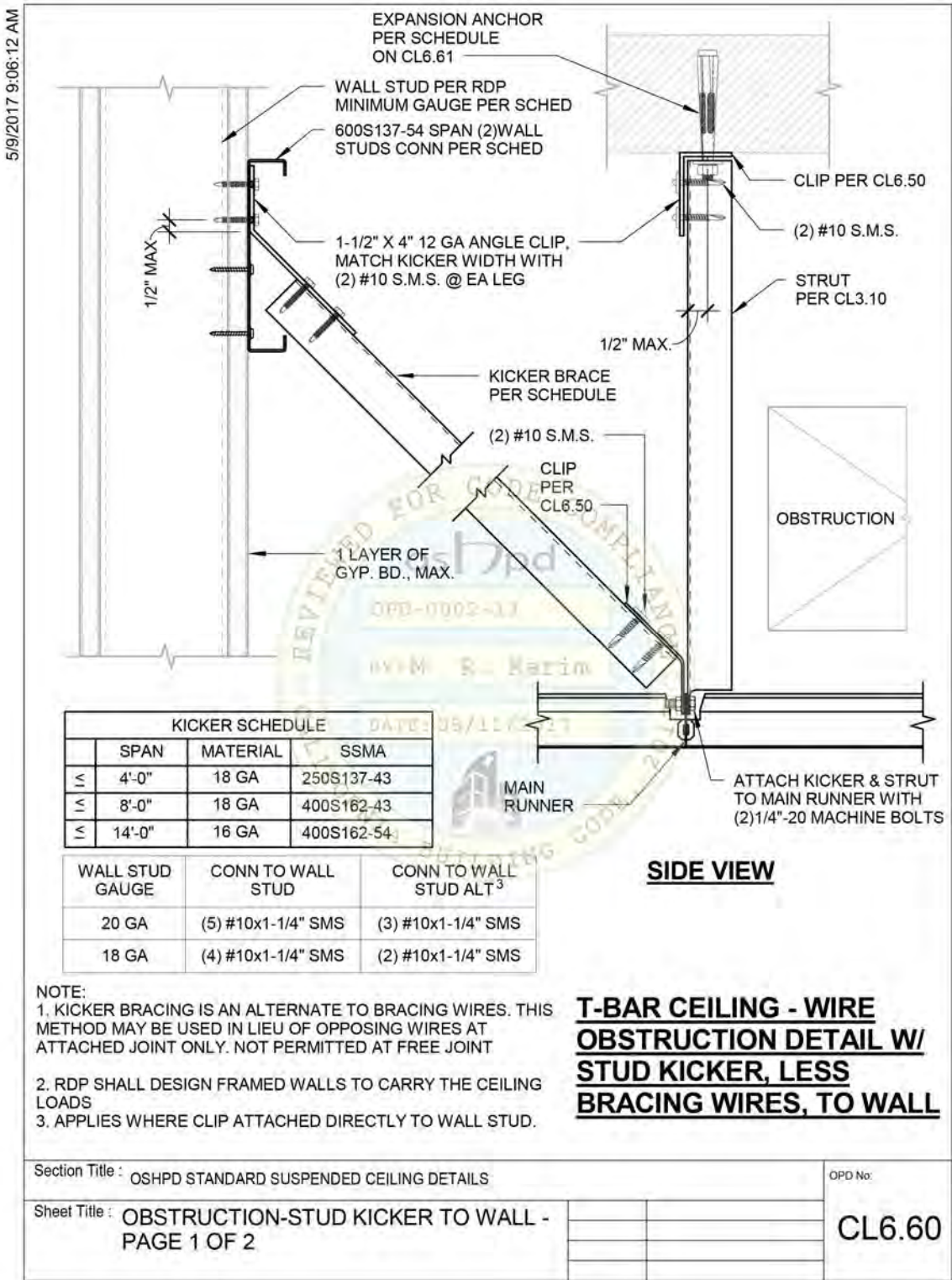
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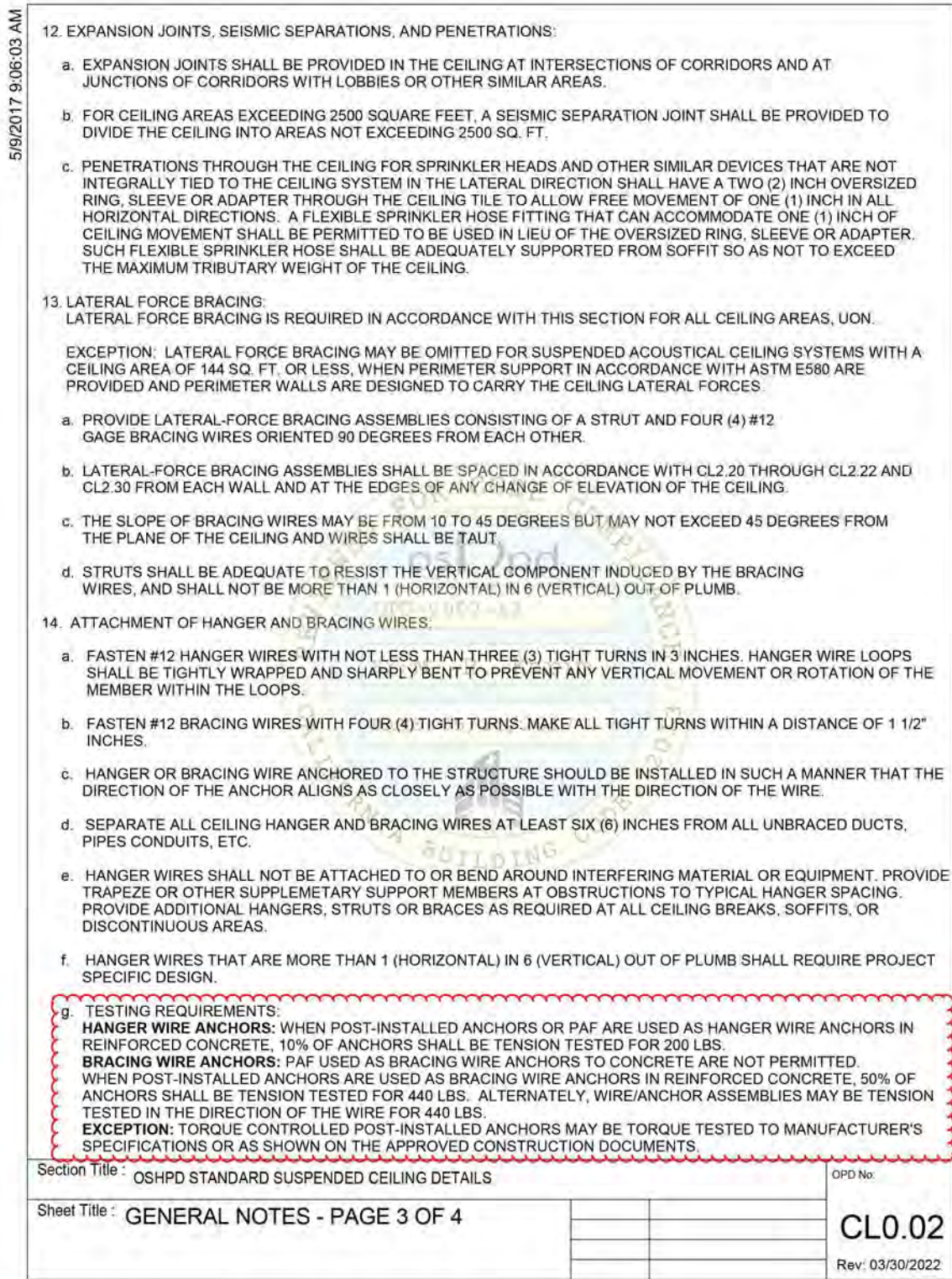
SUSPENDED CEILING SEISMIC BRACING



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OPD-0002-13: Reviewed for Code Compliance by Karim

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SHEET TITLE: SUSPENDED CEILING SEISMIC BRACING



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