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CITY OF PORTLAND, OREGON - BUREAU OF DEVELOPMENT SERVICES

1900 SW Fourth Avenue, Suite 5000 • Portland, Oregon 97201 • www.portlandonline.com/bds • Fax 503-823-7425



Facility Permit Plan Intake Form

FOR INTAKE, STAFF USE ONLY

Date Received <u>3/25/15</u>	Building/Mechanical <u>Tom</u>
Building Registration # _____	Electrical <u>3/25</u>
Fixed Bid _____	Plumbing _____
Bin # <u>B1</u>	Fire _____
Building Permit # <u>14-123931-DFS-01-FA</u>	Planning <u>City of Portland REVIEWED FOR CODE COMPLIANCE</u>
Mechanical # _____	BES _____
Plumbing Permit # _____	PDOT <u>APR 7 2015</u>
Electrical Permit # _____	Structural <u>14-123931-DFS-01-FA</u> <u>ERIC</u>
	Other _____

APPLICANT: Complete all sections below that apply to the project. Please print legibly.

Print Name SEAN SCOTT INKERSOLL Sign Name Sean Scott Inkersoll
 Street Address PKA ARCHITECTS 6969 SW HAMPTON ST.
 City PORTLAND State OR Zip Code 97223
 Day Phone (503) 213-1063 FAX (503) 968-6860 email sean@pkaarchitects.com

Plans / permits available for pick up at 1900 SW 4th Avenue, 2nd floor between 8:00 am to 5:00 pm

Contact Name for plan/permit pick up Erin Slusser INLINE CONSTRUCTION
 Day Phone (503) 707-0165 email erins@inline-cc.com

Project Building Name / # CHSU PPV4 450.12 X. PAY REMODEL - PHYSICIANS PAVILION

Project Address or Location CHSU PHYSICIANS PAVILION 3147 SAM JACKSON PARK RD.

Project Name and Description CHSU PPV4 450.12 X. PAY REMODEL 14-123931

CHSU PPV4 450.12 X. PAY REMODEL Deferred submittal for suspended ACT system seismic

Total Project Value _____ Project Reference #/Billing ID # W.D. # F-2014-0456

Building Contractor INLINE COMMERCIAL CONSTRUCTION CCB # 51880

Mechanical Contractor _____ CCB # _____

Electrical Contractor _____ CCB# _____ License # _____

Plumbing Contractor _____ CCB# _____ License # _____

☒ Building Permit

No. of Stories 4

Const. Type II FR

- ☒ [N] Alarms Required
☒ [N] Smoke Det. Req'd
☒ [N] Sprinklers Req'd
☒ [N] Struct. Eng / Calcs Submitted

☒ Electrical Permit

Please provide a completed standard electrical permit application form. You may mail or deliver it to 1900 SW 4th Avenue, Portland, Oregon 97201 or FAX to 503-823-7425.

☒ Plumbing Permit

Number of Fixtures REPLACE SINK W/ NEW SINK

Back Flow Devices —

Water Service (# of Feet) —

Medical Gas —

Other —

☐ Mechanical Permit

Mechanical Valuation _____

Description _____

14-123931-DFS-01-FA

B1



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1900 SW Fourth Avenue, Suite 5000 • Portland, Oregon 97201 • www.portlandonline.com/bds •

Facility Permit Plan Intake Form

FOR INTAKE, STAFF USE ONLY

Date Received 3/25/13 Building/Mechanical _____
Building Registration # 00-176882-FC Electrical _____
Fixed Bid _____ Plumbing _____
Bin # F 14 Fire _____
Building Permit # 14-123931-FA Planning _____
Mechanical # 14-123936-FA BES _____
Plumbing Permit # _____ PDOT _____
Electrical Permit # _____ Structural _____
Other _____

APPLICANT: Complete all sections below that apply to the project. Please print

Print Name SEAN SCOTT INKERSOLL Sign Name Sean Scott
Street Address PRA ARCHITECTS 6969 SW HAMPTON ST
City PORTLAND State OR Zip _____
Day Phone (503) 213-1063 FAX (503) 968-6860 email sean@p

Plans / permits available for pick up at 1900 SW 4th Avenue, 2nd floor between

Contact Name for plan/permit pick up BRIAN GRANT, INLINE CON
Day Phone (971) 205-8049 email briangr@inline-

Project Building Name / # CHSL PPV4 450.12 X. PAV REMODEL

Project Address or Location CHSL PHYSICIANS PAVILION 3147 SAM
PORTLAND OREGON 97239

Project Name and Description CHSL PPV4 450.12 X. PAV REMODEL - REMODEL (E) SPA

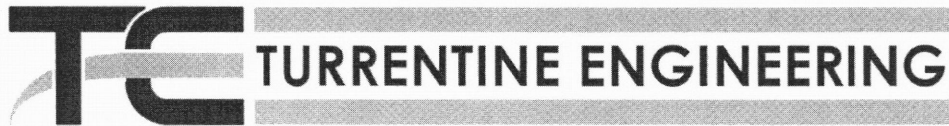
Total Project Value \$250 K Project Reference #/Billing ID # W.D

Building Contractor INLINE COMMERCIAL CONSTRUCTION CC# _____

Mechanical Contractor _____ CC# _____

Electrical Contractor _____ CCB# _____ Lic# _____

Plumbing Contractor _____ CCB# _____ Lic# _____



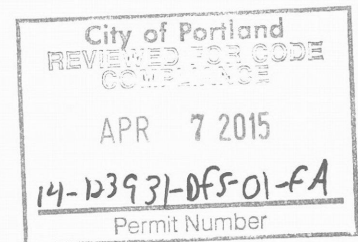
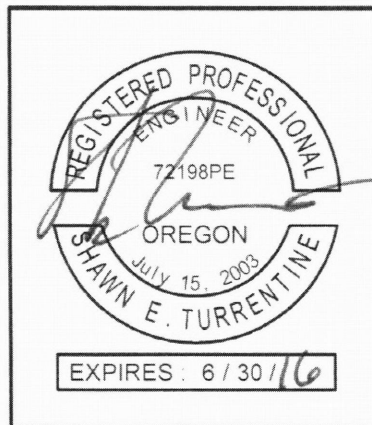
Turrentine Engineering, LLC • PO Box 2465, Lebanon, Oregon 97355 • Phone: (541) 258-7004

SUSPENDED A.C.T CEILING SYSTEM SEISMIC BRACING ANALYSIS AND CONSTRUCTION REQUIREMENTS

FOR:

**OHSU HOSPITAL
OHSU PPV 450.12 X-RAY REMODEL**

3147 SW SAM JACKSON PARK ROAD
PORTLAND, OR 97239



CLIENT : HARLEN'S DRYWALL CO.
JOB NO.: 150203
PREPARED BY : SET
CHECKED BY : .
DATE : 3-4-15

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14-123931-DFS-01-FA

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Project: OHSU PPV 450.12 REMODEL

Client: HARLEN'S DRYWALL CO.

Job No.: 150203

Page: 2

By: SET

Date: 3-4-15

GENERAL NOTES

- 1.) THE DRAWINGS/DETAILS CONTAINED HEREIN COVER THE MOST TYPICAL CONDITIONS IN THE CEILING CONSTRUCTION. MINOR VARIANCES SHALL BE FRAMED SIMILARLY. VERIFY WITH ENGINEER/DETAILER FOR ALL OTHER CONDITIONS.
- 2.) THE CONTRACTOR SHALL VERIFY AND COORDINATE THE DIMENSIONS AMONG ALL DRAWINGS PRIOR TO PROCEEDING WITH ANY WORK OR FABRICATION. THE CONTRACTOR IS RESPONSIBLE FOR ALL BRACING AND SHORING DURING CONSTRUCTION.
- 3.) ALL METHODS, MATERIALS, AND WORKMANSHIP SHALL CONFORM TO THE REQUIREMENTS AS INDICATED IN THE BUILDING GENERAL STRUCTURAL NOTES AND THE PROJECT SPECIFICATIONS.
- 4.) ALL ITEMS NOTED B.O. (BY OTHERS) INCLUDE INSTALLATION OF THE B.O. ITEMS.

SCOPE OF WORK

- 1.) THE DRAWINGS/DETAILS CONTAINED HEREIN ARE APPLICABLE ONLY TO THE SUSPENDED A.C.T. CEILING SYSTEMS.

DESIGN CRITERIA

2014 OSSC

SEISMIC:

DESIGN CATEGORY = D

IMPORTANCE FACTORS: $I_E = 1.50$, $I_P = 1.50$

$S_{ds} = 0.731$ (CALC'D USING U.S.G.S. SEISMIC MAPS)

GRAVITY FORCES:

DEAD LOAD = 4.0 PSF FOR WEIGHT OF CEILING SYSTEMS

STATEMENT OF SPECIAL INSPECTIONS

- 1.) WHERE REQUIRED AS NOTED IN THE DRAWINGS, THESE NOTES, OR THE CONTRACT DOCUMENTS. SPECIAL INSPECTIONS SHALL CONFORM TO CHAPTER 17 OF THE IBC.
- 2.) SPECIAL INSPECTION IS NOT REQUIRED FOR ANY OF THE CONSTRUCTION WITHIN THIS SUBMITTAL.

-CONT.-



Project: OHSU PPV 450.12 REMODEL

Client: HARLEN'S DRYWALL CO.

Job No.: 150203

Page: 3

By: SET

Date: 3-4-15

GENERAL NOTES, CONTINUED

SUSPENDED A.C.T CEILING CONSTRUCTION NOTES:

- 1.) THE SUSPENDED ACOUSTICAL CEILING TILE CEILINGS SHALL BE CONSTRUCTED PER DETAIL "AI" CONTAINED HEREIN.
- 2.) IN LIEU OF THE 2.0 INCH CLOSURE ANGLE REQUIREMENTS OF ASCE 7-10 SECTION 13.5.6.2.2, THE PERIMETER OF EACH CEILING AREA SHALL BE INSTALLED PER DETAIL "CI".
- 3.) FOR CEILING AREAS EXCEEDING 1000 SF., HORIZONTAL RESTRAINT (SEISMIC BRACING) OF THE CEILING TO THE STRUCTURAL SYSTEM SHALL BE PROVIDED.
- 4.) SEISMIC BRACING SPACING REQUIREMENTS:

CEILING AREAS IN THIS PROJECT ARE LESS THAN 1000 SF., THEREFORE SEISMIC BRACING IS NOT REQUIRED.

REF. PARTIAL RCP "PI" FOR SPECIAL CONSTRUCTION REQUIREMENTS AROUND THE BRACED UNISTRUT SYSTEM.

- 5.) CEILING AREAS IN THIS PROJECT ARE LESS THAN 2500 SF., THEREFORE SEISMIC SEPARATION JOINTS PER ASCE 7-10 SECTION 13.5.6.2.2 ARE NOT REQUIRED.
- 6.) UNLESS NOTED OTHERWISE, HANGER WIRES AND SPLAY WIRES SHALL BE NO. 12 GA (0.106"φ) ZINC-COATED, CARBON STEEL WIRE COMPLYING WITH ASTM A641.
- 7.) HANGER WIRES AND PERIMETER WIRES MUST BE PLUMB WITHIN 1 IN 6 UNLESS COUNTER SLOPING WIRES ARE PROVIDED.
- 8.) WIRES SHALL NOT ATTACH TO OR BEND AROUND INTERFERING MATERIAL OR EQUIPMENT. A TRAPEZE OR EQUIVALENT DEVICE SHALL BE USED WHERE OBSTRUCTIONS PRECLUDE DIRECT SUSPENSION. TRAPEZE SUSPENSION SHALL BE OF AN APPROVED TYPE OR AS DESIGNED BY TURRENTINE ENGINEERING, LLC.
- 9.) LIGHT FIXTURES WEIGHING LESS THAN 10 POUNDS AND SUPPORTED BY THE CEILING GRID SHALL HAVE ONE 12 GAGE HANGER WIRE CONNECTED FROM THE FIXTURE TO THE STRUCTURE ABOVE. THIS WIRE MAY BE SLACK.
- 10.) LIGHT FIXTURES WEIGHING MORE THAN 10 POUNDS AND LESS THAN 56 POUNDS SUPPORTED BY THE CEILING GRID SHALL HAVE TWO 12 GAGE HANGER WIRES CONNECTED FROM THE FIXTURE TO THE STRUCTURE ABOVE. THESE WIRES MAY BE SLACK.
- 11.) PENDANT MOUNTED FIXTURES SHALL BE DIRECTLY SUPPORTED FROM THE STRUCTURE ABOVE PER APPROVED METHODS WITHOUT USING THE CEILING SUSPENSION SYSTEM FOR DIRECT SUPPORT.
- 12.) MECHANICAL TERMINALS OR SERVICES WEIGHING 20 POUNDS, BUT NOT MORE THAN 56 POUNDS SUPPORTED BY THE CEILING GRID SHALL HAVE TWO 12 GAGE HANGER WIRES CONNECTED THEM TO THE STRUCTURE ABOVE. THESE WIRES MAY BE SLACK.
- 13.) SPRINKLER HEAD PENETRATIONS SHALL HAVE A 2 INCH OVERSIZE RING, SLEEVE, OR ADAPTER THROUGH THE CEILING TILE TO ALLOW FREE MOVEMENT OF AT LEAST 1 INCH IN ALL HORIZONTAL DIRECTIONS. FLEXIBLE HEAD DESIGN THAN ACCOMMODATE 1 INCH OF FREE MOVEMENT SHALL BE PERMITTED AS AN ALTERNATIVE.



Project: OHSU PPV 450.12 REMODEL

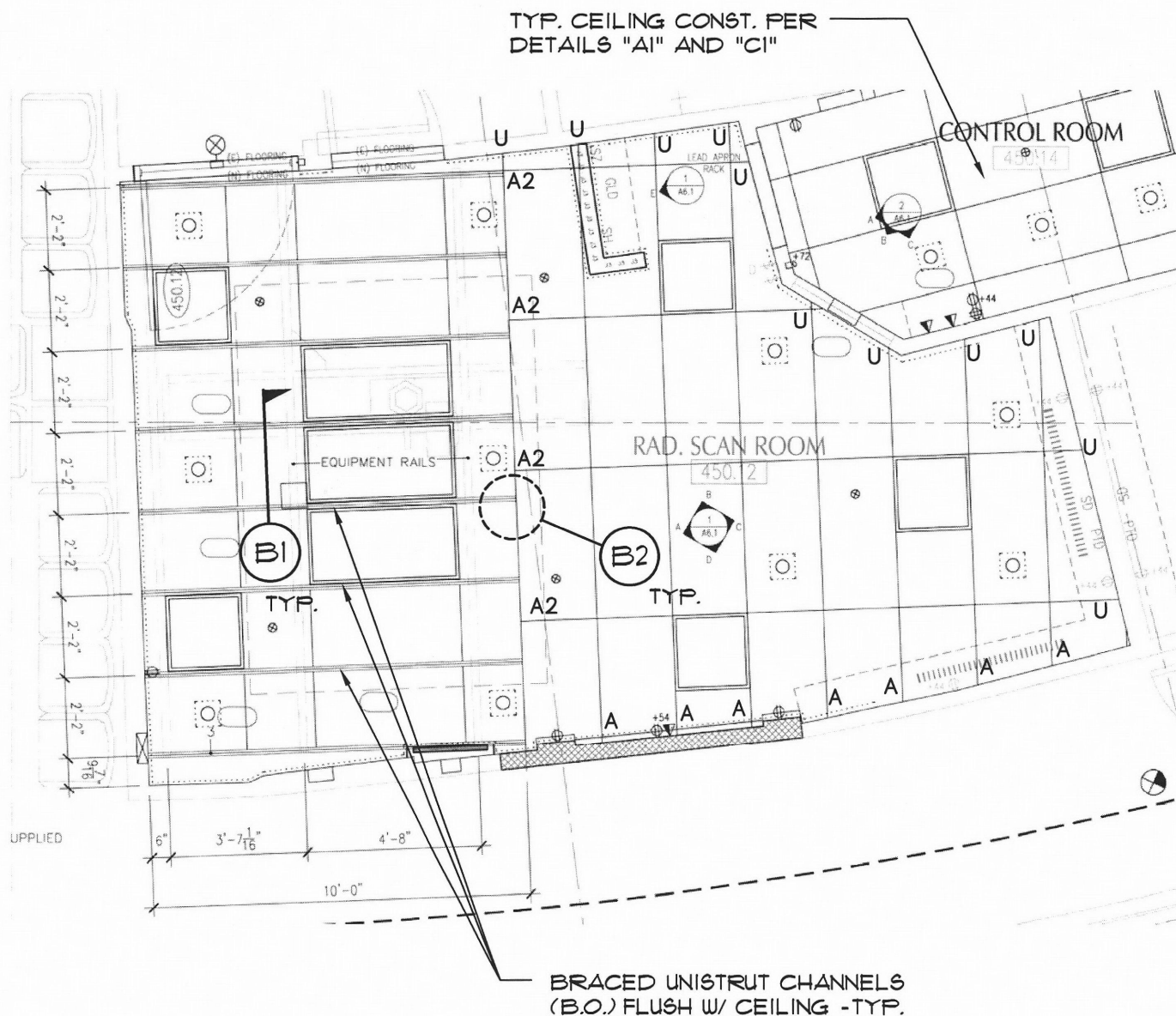
Client: HARLEN'S DRYWALL CO.

Job No.: 150203

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By: SET

Date: 3-4-15



NOTES:

- 1.) "A" INDICATES GRID TO BE "ATTACHED" TO PERIMETER PER DETAIL "C1".
- 2.) "U" INDICATES GRID TO BE "UNATTACHED" TO PERIMETER PER DETAIL "C1".
- 4.) "A2" INDICATES GRID TO BE POP-RIVETED TO MAIN RUNNER ALONG ENDS OF UNISTRUT.



PARTIAL RCP

ARCH. REF: 1/A5.1



Project: OHSU PPV 450.12 REMODEL

Client: HARLEN'S DRYWALL CO.

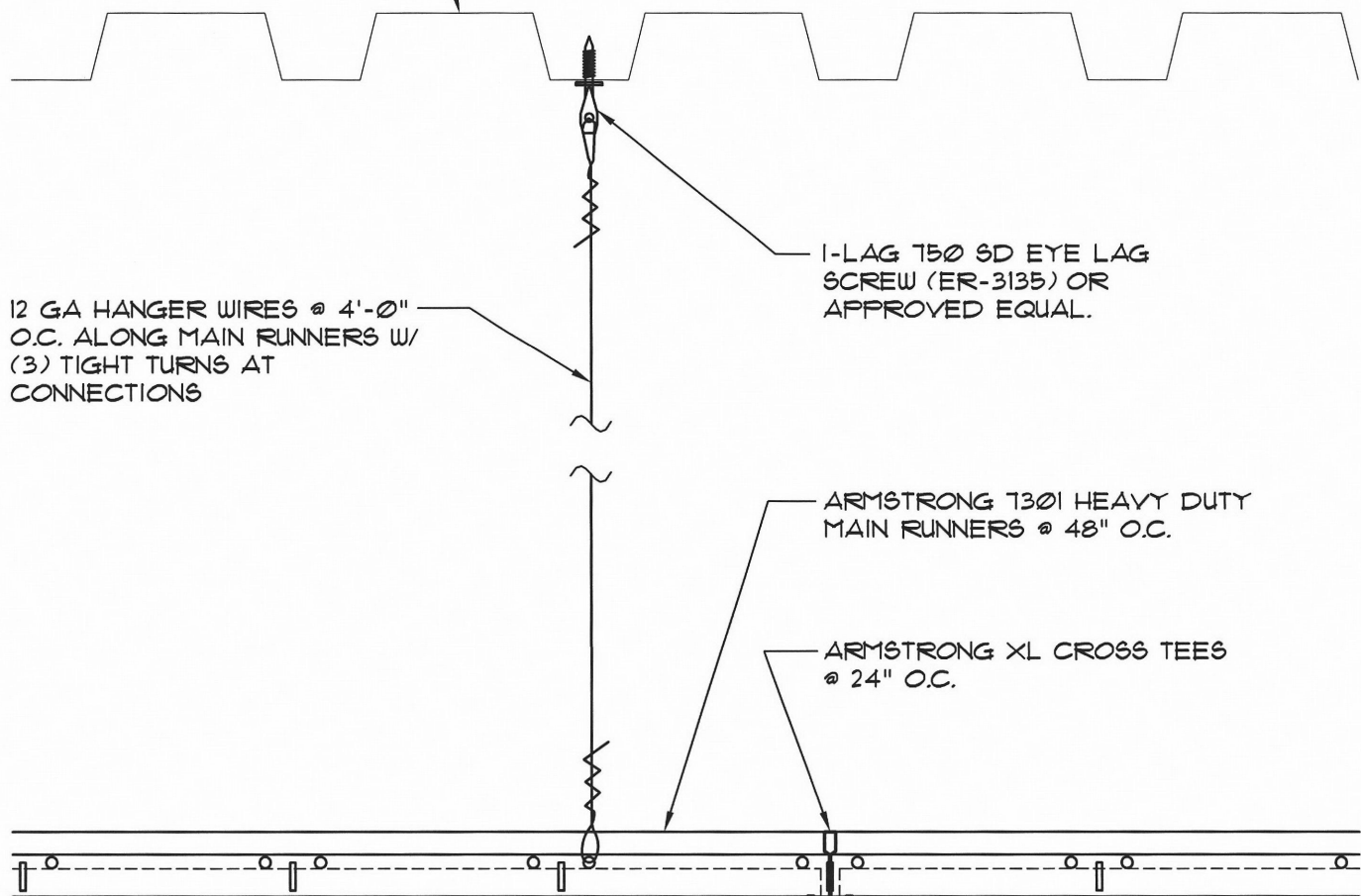
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(E) METAL ROOF DECKING



A1

TYP. A.C.T. CEILING CONSTRUCTION



Project: OHSU PPV 450.12 REMODEL

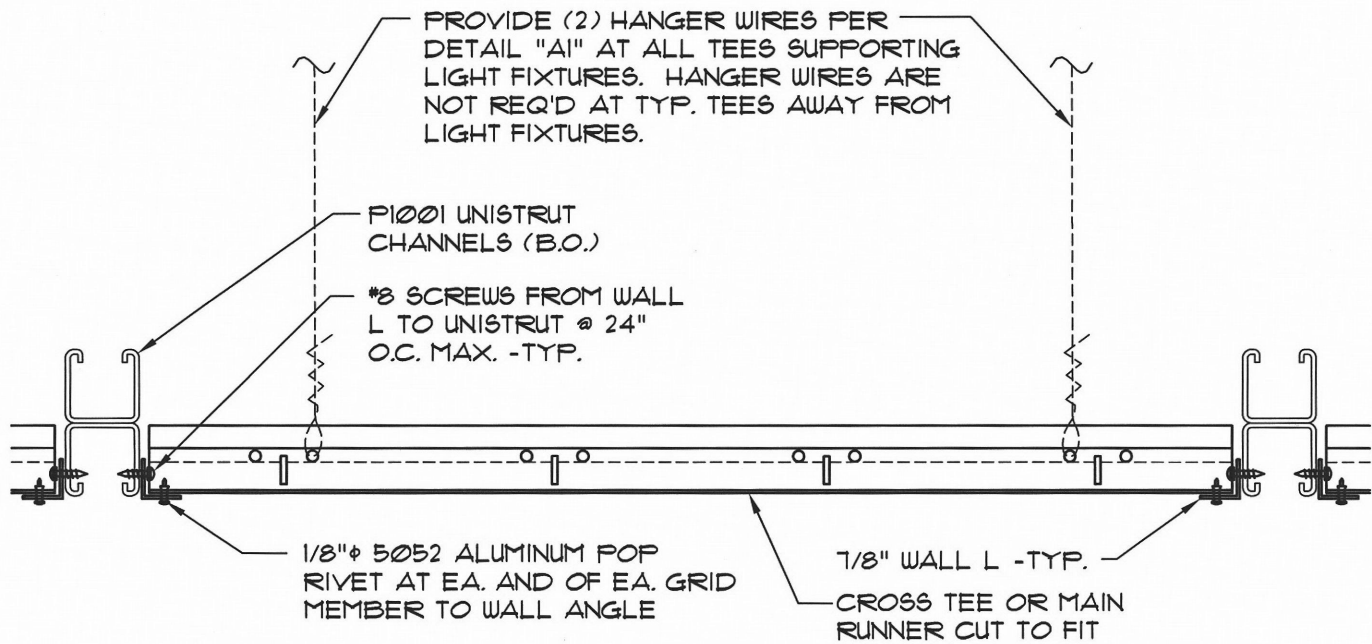
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Date: 3-4-15



B1

CEILING BETWEEN CHANNELS

1/8"φ 5052 ALUMINUM POP RIVET FROM WALL L'S TO MAIN RUNNER

MAIN RUNNER CONT. ACROSS ENDS OF UNISTRUT CHANNELS. PLACE LEG UNDER END OF CHANNELS AND WALL L AS SHOWN

WALL L'S PER DETAIL "B1"

UNISTRUT CHANNEL PER DETAIL "B1"

B2

PLAN DETAIL



Project: OHSU PPV 450.12 REMODEL

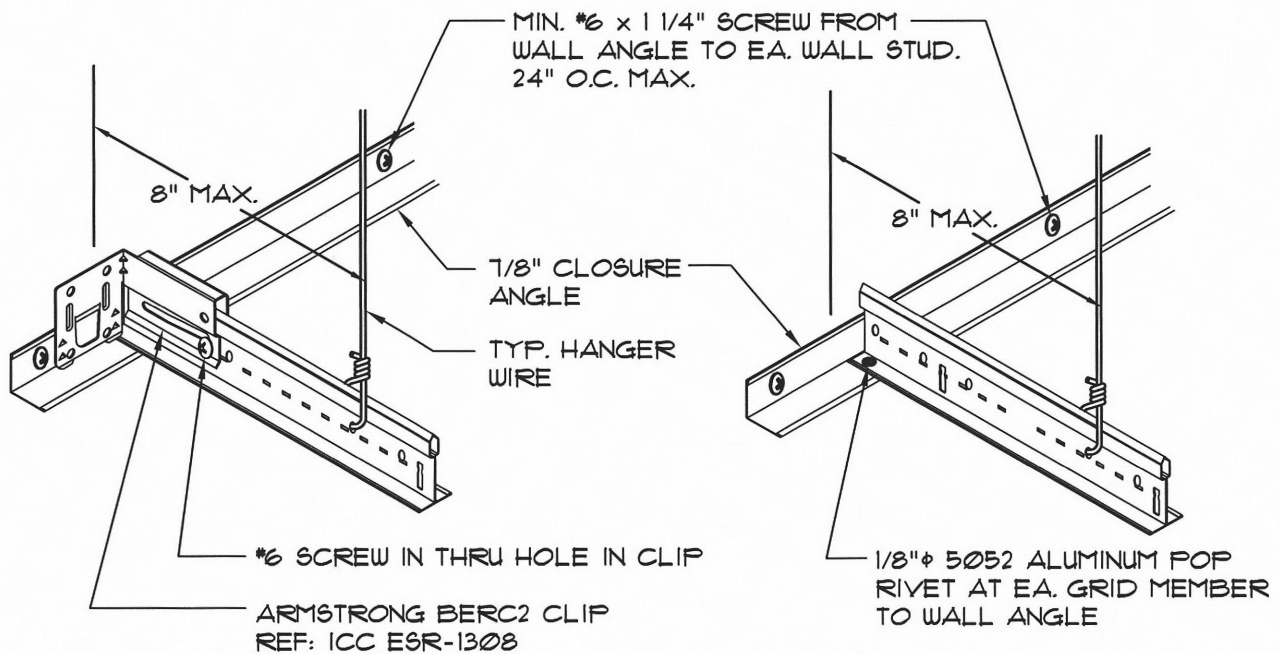
Client: HARLEN'S DRYWALL CO.

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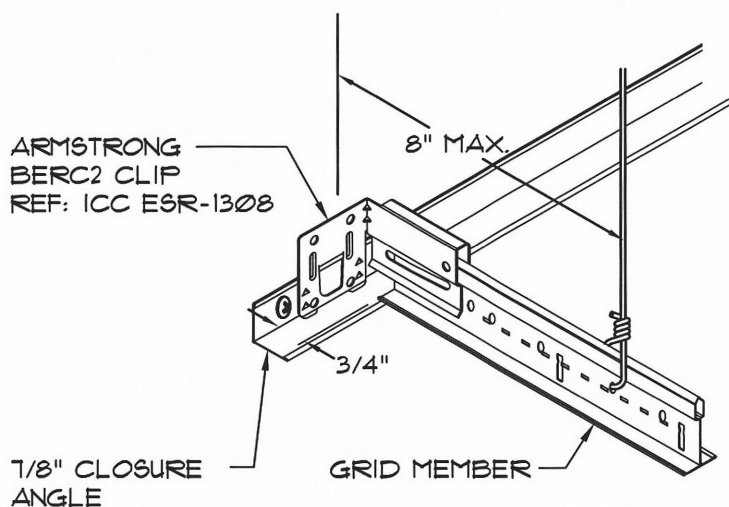
By: SET

Date: 3-4-15



ATTACHED WALL OPTION 1 OF 2

ATTACHED WALL OPTION 2 OF 2



NOTE:
IN EACH ORTHOGONAL HORIZONTAL
DIRECTION ONE END OF THE CEILING
SHALL BE ATTACHED TO THE
CLOSURE ANGLE PER "ATTACHED
WALL" DETAIL. THE OTHER END IN
EACH ORTHOGONAL DIRECTION
SHALL BE FREE TO SLIDE ON THE
CLOSURE ANGLE PER THE
"UNATTACHED WALL" DETAIL.
REF: ICC-ESR 1308 FOR ADDITIONAL
INFO.

UNATTACHED WALL



TYPICAL A.C.T. CEILING PERIMETER DETAILS

Turrentine Engineering, LLC
PO Box 2465
Lebanon, OR 97355

Project: OHSU PPV 450.12
Job #: 150203

Page: 8
By: SET
Date: 3/4/2015

LATERAL FORCE:

REF: ASCE 7-10, SECTION 13.3

Using ASD load combination including 0.7E, where $E = Q_E = F_p$

$a_p = 1.00$
 $S_{DS} = 0.731$ From project specifications or calculated using
USGS Seismic Ground Motion Calculator with
assumed Site Class = D
 $W_p = 4.00$ psf
 $I_p = 1.50$
 $R_p = 2.50$
 $z = 1.00$ ft
 $h = 1.00$ ft

Ref:
[T13.5-1]

[13.5.6.1]

[13.1.3]

[T13.5-1]

$$\begin{aligned} F_p &= (0.7)(0.4)a_p S_{DS} W_p (1/(R_p/I_p))(1+2(z/h)) &= 1.47 \text{ psf} & [13.3-1] \\ F_{pMAX} &= (0.7)1.6 S_{DS} I_p W_p &= 4.91 \text{ psf} & [13.3-2] \\ F_{pMIN} &= (0.7)0.3 S_{DS} I_p W_p &= 0.92 \text{ psf} & [13.3-3] \end{aligned}$$

$$\text{USE } F_p = 1.47 \text{ psf}$$

CALCULATIONS
NO CONSTRUCTION DETAILS
BEYOND THIS PAGE

Project: OHSU PPV 450.1Client: HARLEN'S DRYWALLJob No.: 150203Page: 9By: SETDate: 3-4-15

REF. DETAILS "B1" & "B2" !

 $\frac{1}{8}" \phi$ POP RIVET CAPACITY:USING AISI NASPEC SECTION E4, ASD, $\Omega = 3.00$

$$P_{ss} = 155^{\#} \quad (\text{ULT. STRENGTH FOR TYP. } \frac{1}{8}" \phi \text{ RIVET W/ ALUM. MANDREL})$$

$$\frac{P_{ss}}{\Omega} = \frac{155}{3.0} = 52^{\#}$$

$$P_{ns} = 4.2 (t_2^3 d)^{1/2} F_u$$

WALL & GRID THICK = 0.015"

 $F_u = 45,000 \text{ psi}$

$$= 4.2 [(0.015)^3 (0.125)]^{1/2} (45,000) = 123^{\#} \checkmark$$

$$P_{ns} = 2.7 t d F_u = (2.7)(0.015)(0.125)(45,000) = 228^{\#}$$

$$\frac{P_{ns}}{\Omega} = \frac{123}{3.00} = \underline{41^{\#}} \checkmark \text{ controls}$$

CHECK RIVETS ANCHORING MAIN RUNNER AT ENDS OF UNISTRUTS (DETAIL "B2"):

MAX. WIDTH OF CEILING TO EAST OF MAIN = 16'

$$V = \frac{F_p (16)(2'-2" \text{ o.c.})}{2 \text{ RIVETS}} = \frac{(1.47)(16)(2.2)}{2} = 26^{\#} / \text{RIVET}$$

$$V_a = 41^{\#}$$

$$41^{\#} > 26^{\#} \text{ o.k.}$$

SCREW CONN. W/ #8 SCREWS TO 12 GA UNISTRUT!

O.K. BY INSPECTION