

- 1. Floor and Ceiling Runners (Not shown) Channel shaped, fabricated from min 25 MSG (min 20 MSG when Item 4A is used) corrosionprotected steel, min width to accommodate stud size, with min 1 in. long legs, attached to floor and ceiling with fasteners 24 in. OC max.
- 2. Steel Studs -- Channel shaped, fabricated from min 25 MSG (min 20 MSG when Item 4A is used) corrosion-protected steel, min width as indicated under Item 4, min 1-1/4 in. flanges and 1/4 in. return, spaced a max of 24 in. OC. Studs to be cut 3/8 to 3/4 in. less than assembly
- 3. Batts and Blankets\* (Required as indicated under Item 4) Mineral wool batts, friction fitted between studs and runners. Min nom thickness as indicated under Item 4. See Batts and Blankets (BKNV or BZJZ) Categories for names of Classified companies.
- 3A. Batts and Blankets\* (Optional) Placed in stud cavities, any glass fiber or mineral wool insulation bearing the UL Classification Marking as to Surface Burning Characteristics and/or Fire Resistance. See Batts and Blankets (BKNV or BZJZ) Categories for names of Classified com-
- 4. Gypsum Board\* Gypsum panels with beveled, square or tapered edges, applied vertically or horizontally. Vertical joints centered over studs and staggered one stud cavity on opposite sides of studs. Vertical joints in adjacent layers (multilayer systems) staggered one stud cavity. Horizontal joints need not be backed by steel framing. Horizontal edge joints and horizontal butt joints on opposite sides of studs need not be staggered. Horizontal edge joints and horizontal butt joints in adjacent layers (multilayer systems) staggered a min of 12 in. The thickness and number of layers for the 1 hr, 2 hr, 3 hr and 4 hr ratings are as follows: Wallboard Protection on Each Side of Wall

	Wallboard Protection on Each Side of Wall			
Rating	Min Stud Depth	No. of Layers & Thkns of Panel	Min Thkns of Insulation (Item 3)	
1	3-1/2	1 layer, 5/8 in. thick	Optional	
1	2-1/2	1 layer, 1/2 in. thick	1-1/2 in.	
1	1-5/8	1 layer, 3/4 in. thick	Optional	
2	1-5/8	2 layers, 1/2 in. thick	Optional	
2	1-5/8	2 layers, 5/8 in. thick	Optional	
2	3-1/2	1 layer, 3/4 in. thick	3 in.	
3	1-5/8	3 layers, 1/2 in. thick	Optional	
3	1-5/8	2 layers, 3/4 in. thick	Optional	
3	1-5/8	3 layers, 5/8 in. thick	Optional	
4	1-5/8	4 layers, 5/8 in. thick	Optional	
4	1-5/8	4 layers, 1/2 in. thick	Optional	
4	2-1/2	2 layers, 3/4 in. thick	2 in.	

CANADIAN GYPSUM COMPANY -1/2 in. thick Type C, IP-X2 or IPC-AR; WRC, 5/8 in. thick Type AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, WRX or WRC; 3/4 in. thick Type IP-X3, ULTRACODE, ULTRACODE SHC or ULTRACODE

- UNITED STATES GYPSUM CO -1/2 in. thick Type C, IP-X2, IPC-AR or WRC; 5/8 in. thick Type SCX, SHX, WRX, IP-X1, AR, C, WRC, FRX-G, IP-AR, IP-X2, IPC-AR; 3/4 in. thick Type IP-X3, ULTRACODE, ULTRACODE SHC or ULTRACODE
- USG MEXICO S A DE C V —1/2 in. thick Type C, IP-X2, IPC-AR or WRC; 5/8 in. thick Type AR, C, IP-AR, IP-X1, IP-X2,
- IPC-AR, SCX, SHX, WRX, WRC or; 3/4 in. thick Type IP-X3, ULTRACODE, ULTRACODE SHC or ULTRACODE WRC. 4A. Gypsum Board\* - (As an alternate to Item 4) - 5/8 in. thick gypsum
- panels, installed as described in Item 4 with Type S-12 steel screws. The length and spacing of the screws as specified under Item 5. CANADIAN GYPSUM COMPANY —Type FRX
- UNITED STATES GYPSUM CO Type FRX 4B. Gypsum Board\* (As an alternate to Items 4 and 4A) 5/8 in.

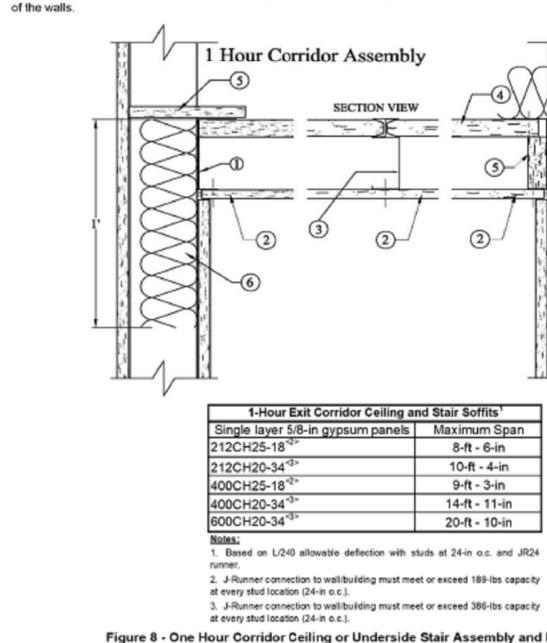
WRC

- thick, 2 ft. wide, tongue and groove edge, applied horizontally as the outer layer to one side of the assembly. Secured as described in Item 5. Joint covering (Item 7) not required.
  - CANADIAN GYPSUM COMPANY Type SHX.
  - UNITED STATES GYPSUM CO-Type SHX. USG MEXICO S A DE C V Type SHX.
- 5. Fasteners (Not shown) Type S or S-12 steel screws used to attach panels to studs (Item 2) or furring channels (Item 6). Single layer systems: 1 in. long for 1/2 and 5/8 in. thick panels or 1-1/4 in. long for 3/4 in. thick panels, spaced 8 in. OC when panels are applied horizontally, or 8 in. OC along vertical and bottom edges and 12 in. OC in the field when panels are applied vertically. Two layer systems: First layer-1 in. long for 1/2 and 5/8 in. thick panels or 1-1/4 in. long for 3/4 in. thick panels, spaced 16 in. OC. Second layer- 1-5/8 in. long for 1/2 in., 5/8 in. thick panels or 2-1/4 in. long for 3/4 in. thick panels, spaced 16 in. OC with screws offset 8 in. from first layer. Three-layer systems: First layer-1 in. long for 1/2 in., 5/8 in. thick panels, spaced 24 in. OC. Second layer- 1-5/8 in. long for 1/2 in., 5/8 in. thick panels, spaced 24 in. OC. Third layer- 2-1/4 in. long for 1/2 in., 5/8 in. thick panels or 2-5/8 in. long for 5/8 in. thick panels, spaced 12 in. OC. Screws offset min 6 in. from layer below. Four-layer systems: First layer-1 in. long for 1/2 in., 5/8 in. thick panels, spaced 24 in. OC. Second layer- 1-5/8 in. long for 1/2 in., 5/8 in. thick panels, spaced 24 in. OC. Third layer-2-1/4 in. long for 1/2 in. thick panels or 2-5/8 in. long for 5/8 in. thick panels, spaced 24 in. OC. Fourth layer- 2-5/8 in. long for 1/2 in. thick panels or 3 in. long for 5/8 in. thick panels, spaced 12 in. OC. Screws offset min 6 in. from layer below.
- 6. Furring Channels (Optional, not shown, for single or double layer systems) - Resilient furring channels fabricated from min 25 MSG corrosion-protected steel, spaced vertically a max of 24 in. OC. Flange portion attached to each intersecting stud with 1/2 in. long Type S-12 steel screws. Not for use with Item 4A.
- 7. Joint Tape and Compound Vinyl or casein, dry or premixed joint compound applied in two coats to joints and screw heads of outer layers. Paper tape, nom 2 in. wide, embedded in first layer of compound over all joints of outer layer panels. Paper tape and joint compound
- may be omitted when gypsum panels are supplied with a square edge. 8. Siding, Brick or Stucco (Optional, not shown) Aluminum, vinyl or steel siding, brick veneer or stucco, meeting the requirements of local code agencies, installed over gypsum panels. Brick veneer attached to studs with corrugated metal wall ties attached to each stud
- with steel screws, not more than each sixth course of brick. Caulking and Sealants\* — (Optional, not shown) — A bead of acoustical sealant applied around the partition perimeter for sound control. UNITED STATES GYPSUM CO —Type AS
- \*Bearing the UL Classification Mark

#### AER-09038

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#### One Hour Corridor Ceiling or Underside Stair Applications, See Figure 8 1. A minimum 2-1/2-in deep 24 gauge J-runner attached horizontally to perimeter or boundary walls with a power a 2. Gypsum Wall Board:

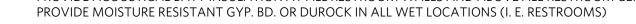


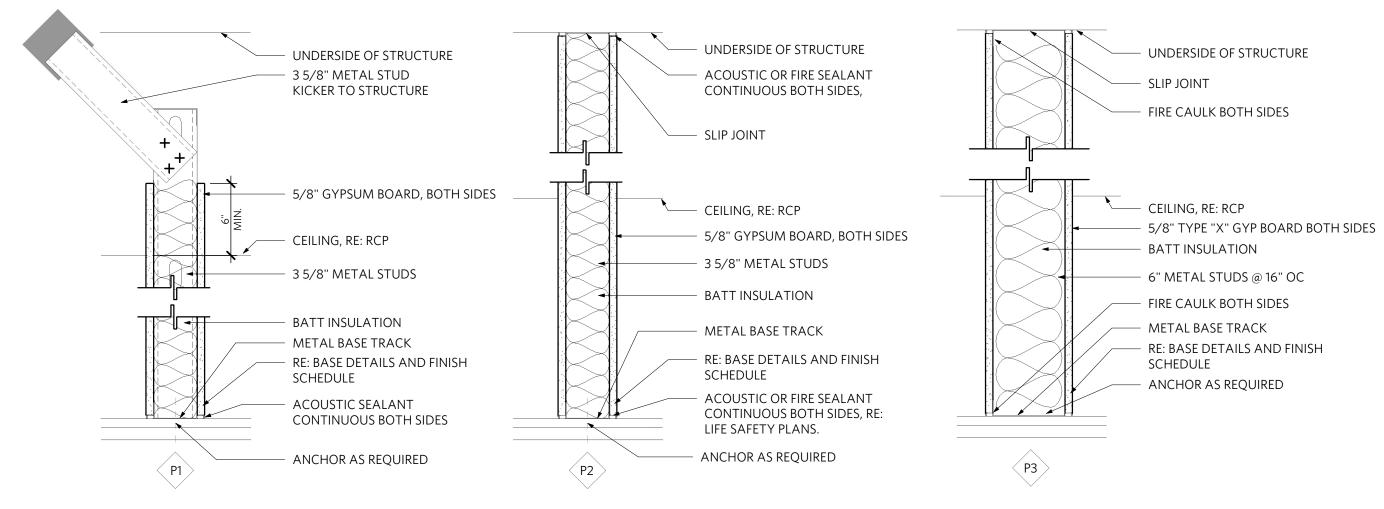
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		AER-09038
ne Hour Corridor Ceiling or U	nderside Stair Applications, See Figure	В
	unner attached horizontally to perimeter or boundar	_
a. For a one (1) hour a (7ype X), to the under screws that are spaced Install the C-H studs perpendicula	side of the "Corridor Osiling" of the C-11 stud 12-in o.c. in the field and at the edges. r to the J-runner spaced 24-in o.c. with the C-	HEETROCK <sup>®</sup> Brand FIRECODE <sup>®</sup> Core Gypsum Panel and the perimeter J-runners. Use 1-in long Type O section of the C-H stud facing downward towards the
	o (2) screws a minimum 1/2-in long Type S-12 osum Liner Panel - Friction-fitted in "H" portion	
Ripper Board: a. Where the liner pan	(item 4) is cut short to be installed, caps mu	st be filled by using a strip of 1-in thick SHEETROCK
Brand Gypsum Liner P	anel.	
<li>b. As an alternative yo ceiling.</li>	a can use mineral fiber insulation to prevent e	xposure to the top leg of the J-runner that forms the
c. Where the wall secti	on extends above the corridor ceiling, above on and a strip of mineral fiber insulation as desc	orridor height a rip of board must be used to cap the ibed in item 6 must be used.
In order to prevent the passage of		fiber insulation must be used to fill in the stud cavity
the walls.		Ν
	1 Hour Corridor Assembly	
	-3	
	SECTION VIEW	
	-0	
	<u>\_</u> 2 <sup>(3)</sup> 2	
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,	1-Hour Exit Corridor Ceiling and Sta	
	Single layer 5/8-in gypsum panels Ma 212CH25-18 <sup>&lt;2&gt;</sup>	ximum Span 8-ft - 6-in
	212CH20-34 43>	10-ft - 4-in
	400CH25-18*2*	9-ft - 3-in
	25	20-ft - 11-in 20-ft - 10-in
	Notes: 1. Based on L/240 allowable deflection with studs at	
	<ol> <li>Disco dr Dicto anonado donceran with shap at runner.</li> <li>J-Runner connection to wall/building must meet or ex</li> </ol>	
	at every stud location (24-in o.c.). 3. J-Runner connection to wall/building must meet or ex	
	at every stud location (24-in o.c.).	
Figure 8 - One F	our Corridor Ceiling or Underside Stair	Assembly and Limiting Spans Page 8 of 11
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#### WALL TYPES

- GYP. BD. TO BE HELD OFF FINISH FLOOR 1/2" MIN. TYPICAL.
- METAL CORNER BEAD TO BE USED ON ALL OUTSIDE CORNERS OR TOP OF PARTIAL HEIGHT WALLS WHERE GYP. BD. WRAPS.
- ALL BLOCKING SHALL SPAN FULLY BETWEEN BOTH ADJACENT STUDS AT A MINIMUM.
- ALL WALLS TO BE LEVEL 4 FINISH, U.N.O. WALLS TO RECEIVE VINYL GRAPHICS TO BE LEVEL 5 FINISH.
- PROVIDE ACOUSTICAL BATT INSULATION AT ALL RESTROOM WALLS AND ABOVE ALL RESTROOM CEILINGS





WALLS 6" ABOVE CEILING

WALLS TO DECK

WALLS TO DECK UL DESIGN:U419 **1 HOUR RATING** 



 $\langle$  P4 angle

- BATT INSULATION - 3 5/8" METAL STUDS @ 16" OC - FIRE CAULK BOTH SIDES - METAL BASE TRACK - RE: BASE DETAILS AND FINISH SCHEDULE ANCHOR AS REQUIRED

CEILING, RE: RCP - 5/8" TYPE "X" GYP BOARD BOTH SIDES

- FIRE CAULK BOTH SIDES

- SLIP JOINT

UNDERSIDE OF STRUCTURE

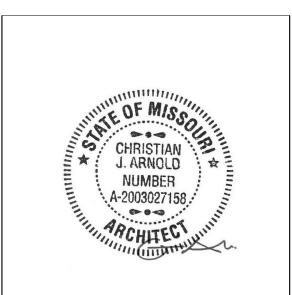
REV ISSUE Revision 1 Revision 2 / RFI 59 03.17.2022 Revision 3

WALL TYPES AND

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DATE 02.16.2022 04.05.2022

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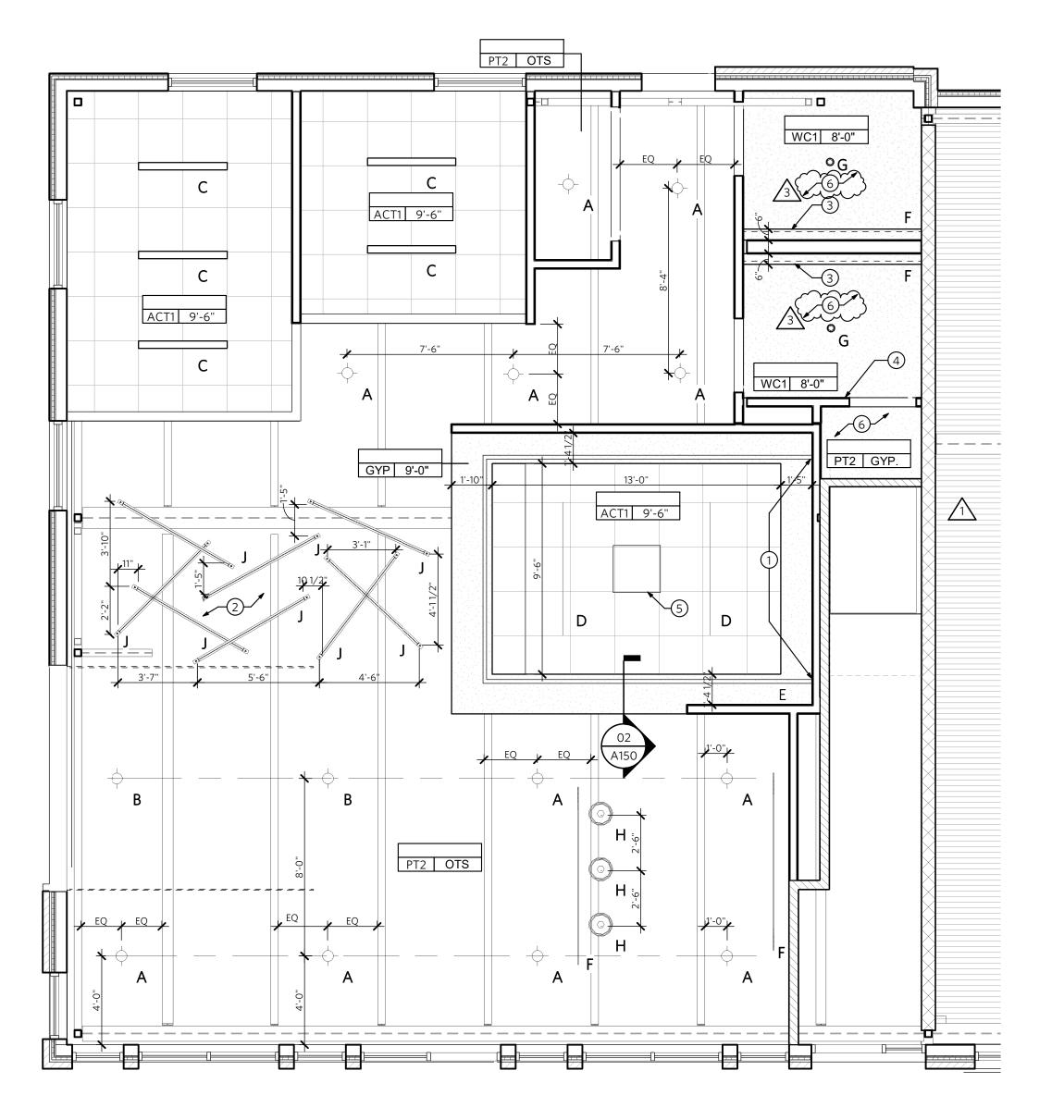


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01 REFLECTED CEILING PLAN

## GENERAL CEILING PLAN NOTES

- 1. CONTRACTOR TO FIELD VERIFY ALL EXISTING CONDITIONS AND REPORT BACK TO ARCHITECT ANY CONFLICTS THAT MAY AFFECT DESIGN INTENTIONS
- SHOWN ON PROJECT DOCUMENTS. REFER TO MEP DRAWINGS FOR ALL EMERGENCY AND EXIT LIGHTING
- 2. REQUIREMENTS. 3.
- CONCEAL ALL CONDUIT TO LIGHT FIXTURES, EXIT DEVICES AND EMERGENCY LIGHTING IN WALL OR IN HARD PIPE CONDUIT.
- CEILINGS TO (PT2) UNLESS NOTED OTHERWISE. 4.
- PROVIDE ACOUSTICAL BATT INSULATION ABOVE ALL OFFICES AND MEETING ROOM CEILINGS PER WALL TYPES ON SHEET A000. ALL WIRING AND CABLING TO BE IN HARD PIPE CONDUIT IN AREAS EXPOSED
- TO STRUCTURE, MC CABLING NOT ACCEPTABLE. ALL NEW GYP. CEILINGS TO BE PAINTED (PT2) UNLESS NOTED OTHERWISE. ALL EXPOSED TO STRUCTURE CEILINGS TO BE PAINTED (PT2) UNLESS NOTED 8. OTHERWISE.
- CENTER LIGHTS WITHIN SOFFIT U.N.O 9 COORDINATE MOUNTING HEIGHTS OF ALL PENDANT LIGHTS IN FIELD WITH 10.
- ARCHITECT U.N.O. PROVIDE NEW CLEAR, EDGE LIT EXIT SIGNS U.N.O. REFER TO ELECTRICAL 11.
- DRAWINGS FOR SPECIFICATION HEADERS AND SOFFITS TO EXTEND TO DECK @ ALL AREAS WITHOUT CEILINGS. 13.

#### REFLECTED CEILING PLAN KEYNOTES

- FIXTURE E TO TO RUN DOWN THE WALL. RE ELVATIONS.
- FIXTURE J TO BE HUNG IN FIELD WITH ARCHITECT. FIXTURE IS TO BE HUNG AT ANGELS. TPY. RECESSED COVE LIGHT. RE MEP. GC TO ENSURE EXISTING STAIR ABOVE IS NOT PROTRUDING INTO RESTROOM CEILING/WALL.
- CEILING IS TO BE HELD TIGHT TO UNDERSIDE OF STAIR.

HVAC, RE: MEP CEILING SHALL BE 1 HR SHAFT WALL ASSEMBLY AER-09038 CONSTRUCTED ALONG UNDERNEATH SIDE OF SLAB AND STAIRS, ENTIRE WIDTH AND LENGTH OF ROOMS. BELOW RATED CEILING, PROVIDE A 3 5/8" METAL STUD AND 5/8" GYP CEILING AT 7'-10".

#### LIGHT FIXTURE SCHEDULE

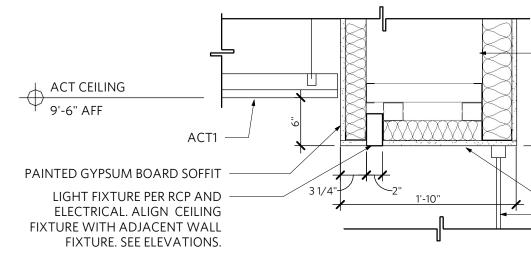
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#### FIXTURE DESCRIPTION

- A 6" LED CYLINDER PENDANT, WHITE FINISH
- B 6" LED CYLINDER FLUSH MOUNT, WHITE FINISH C FOCAL POINT SEEM 4-LP LED RECCESSED 48" OR APPROVED EQ.
- D FOCAL POINT SEEM 4-LP LED RECCESSED 72" OR APPROVED EQ.
- F TAPE LIGHT DIODE LED DI-12V-BLSC2-30-016-IES W/ DIMMING POWER SUPPLY, PROVIDE INSTALLATION CHANNEL OR APPROVED EQ.
- G 4" LED CAN LIGHT, WHITE
- H MUUTO, UNFOLD PENDANT LAMP, WHITE J SONNEMAN LIGHITNG - THIN-LINE LED PENDANT LIGHT, 6' SATIN BLACK, ONE SIDED



02 CEILING DETAIL

- PAINTED GYPSUM BOARD SOFFIT

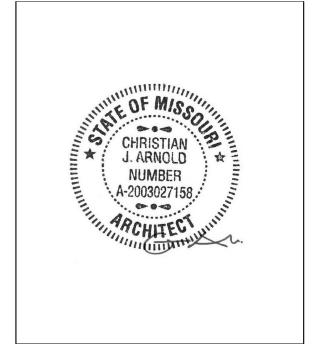
GYP. SOFFIT, PAINTED 9'-0" AFF - PAINTED GYPSUM BOARD SOFFIT

- GLASS SYSTEM. SEE FLOOR PLAN.

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REV ISSUE

Permit Review

Revision 1 Revision 3

DATE 02.02.2022 02.16.2022 Revision 2 / RFI 59 03.17.2022 04.05.2022

#### **REFLECTED CEILING** PLAN & DETAILS

A150