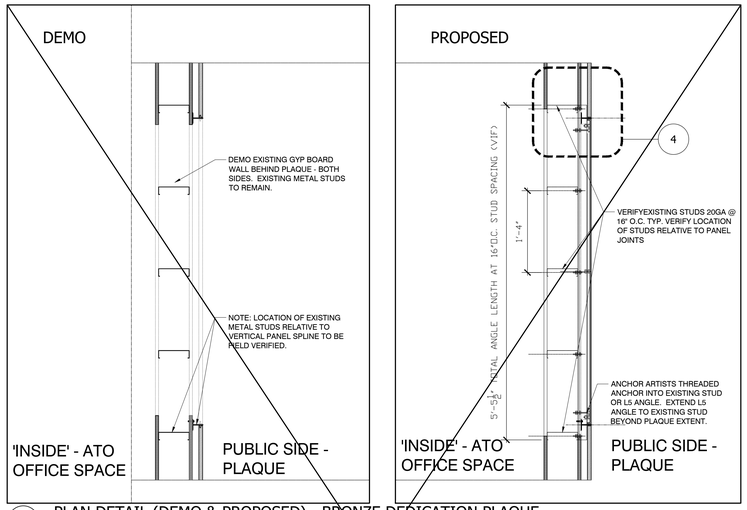
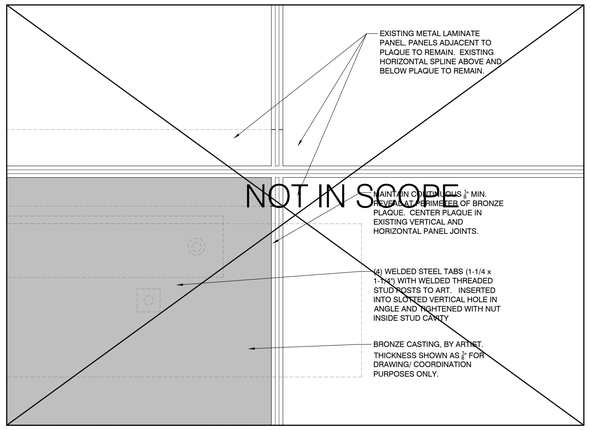


10 PLAN DETAIL (DEMO & PROPOSED) - BRONZE DEDICATION PLAQUE

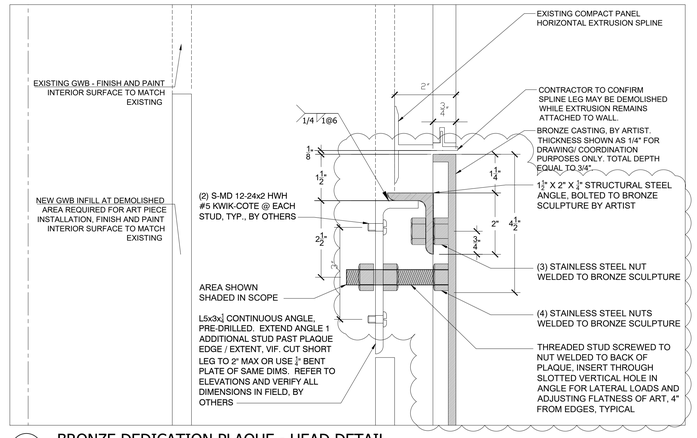
Scale: 1"=1'-0"

NOT IN SCOPE



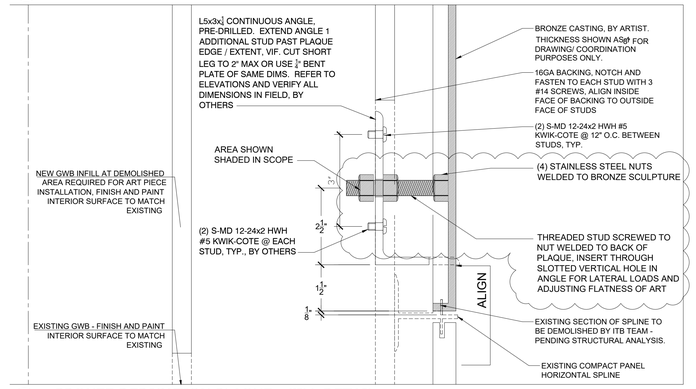
9 BRONZE DEDICATION PLAQUE - CORNER DETAIL ELEVATION

Scale: 6"=1'-0"



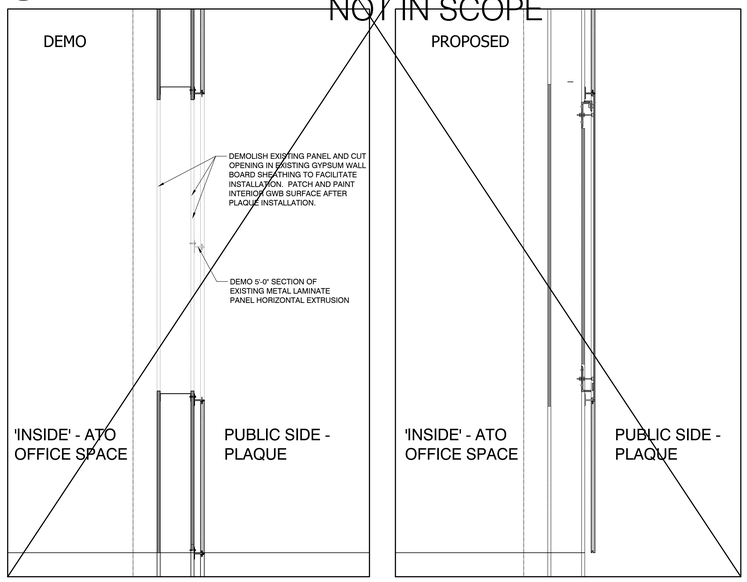
8 BRONZE DEDICATION PLAQUE - HEAD DETAIL

Scale: 6"=1'-0"



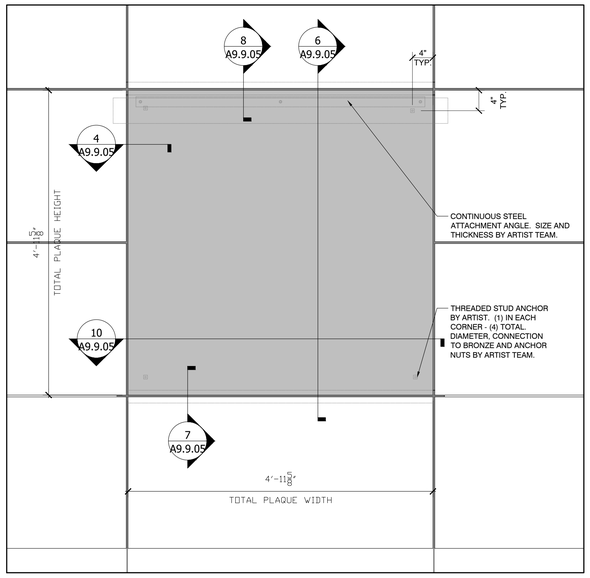
7 BRONZE DEDICATION PLAQUE - SILL DETAIL

Scale: 6"=1'-0"



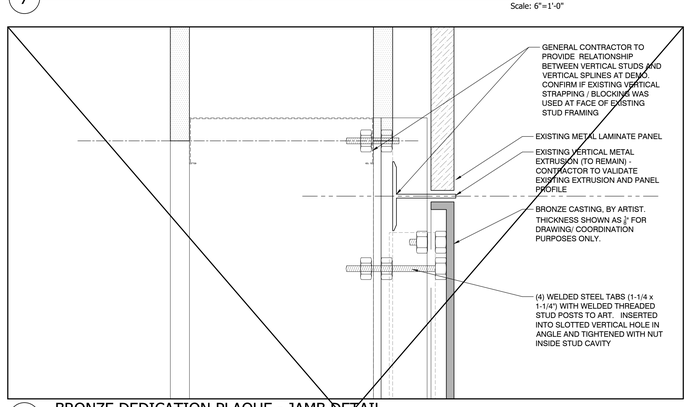
6 WALL SECTION (DEMO & PROPOSED) - BRONZE DEDICATION PLAQUE

Scale: 1"=1'-0"



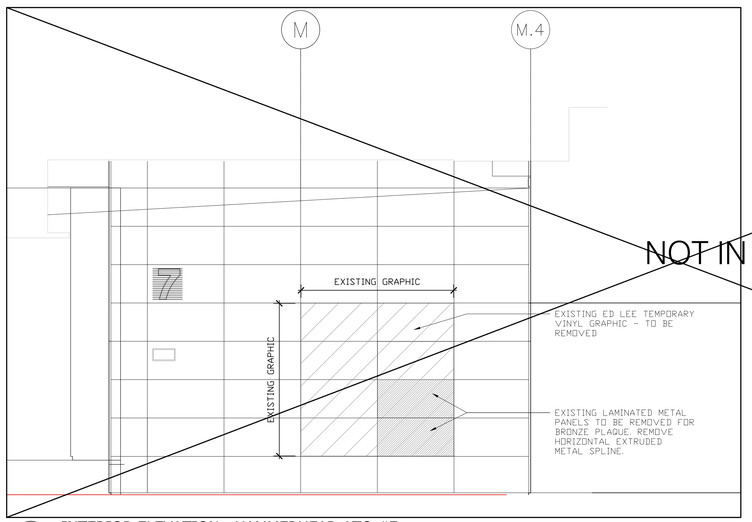
5 ENLARGED ELEVATION - BRONZE DEDICATION PLAQUE

Scale: 1"=1'-0"



4 BRONZE DEDICATION PLAQUE - JAMB DETAIL

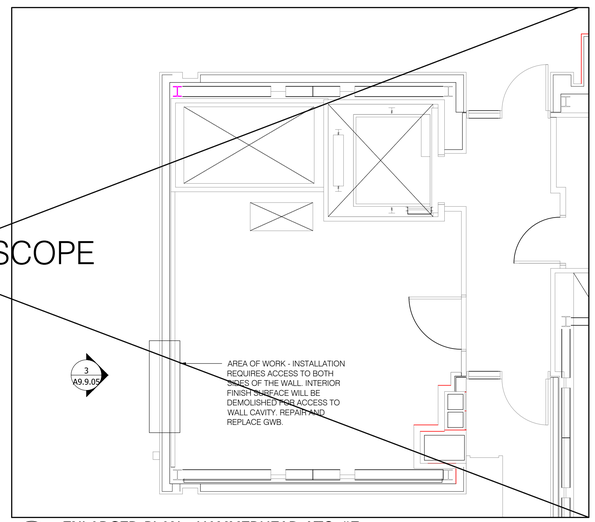
Scale: 6"=1'-0"



3 INTERIOR ELEVATION - HAMMERHEAD ATO #7

Scale: 1/4"=1'-0"

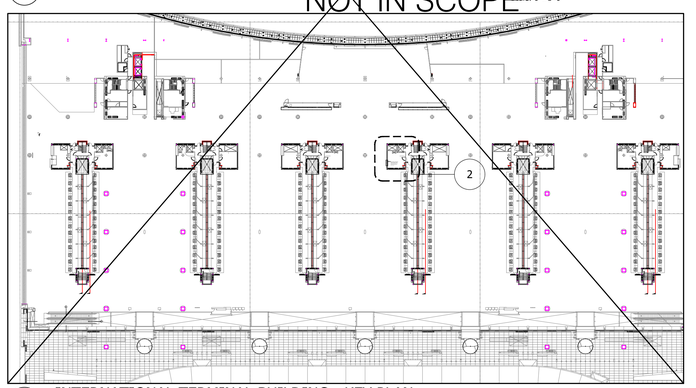
NOT IN SCOPE



2 ENLARGED PLAN - HAMMERHEAD ATO #7

Scale: 1/4"=1'-0"

NOT IN SCOPE



1 INTERNATIONAL TERMINAL BUILDING - KEY PLAN

Scale: 1/64"=1'-0"

NOTE: If this drawing is not on 30in x 42 in, it has been revised from its original size. Scales as noted on drawings/details are no longer applicable.
8/28/2019 10:17:29 AM

SFO
SAN FRANCISCO INTERNATIONAL AIRPORT
710 McDonnel Road, 2nd Floor
San Francisco, CA 94128

CLARK_LOGO.jpg
180 Howard Street, Suite 1200
San Francisco, CA 94105

ITB DJV / SOM TSAO KR
300 Clay St
San Francisco, CA 94111

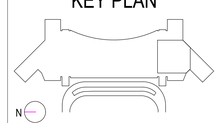
CONTRACT NO. 11118.76
PROJECT NAME: INTERNATIONAL TERMINAL BUILDING PHASE 1 PROJECT SECURITY SCREENING CHECK-POINT AND RECOMPOSE IMPROVEMENTS
TITLE: ITB PHASE 1 ED LEE DEDICATION PLAQUE

REGISTERED PROFESSIONAL ENGINEER BENJAMIN CORDTS No. 84466 Exp: 8/30/2021 CIVIL STATE OF CALIFORNIA

STAMP

ISSUE	DATE	DESCRIPTION
	3/19/21	ARTWORK SUBMITTAL

KEY PLAN



A9.9.05 SHEET #

21-07 Mendez Plaque of Ed Lee

San Francisco International Airport
ITB Phase 1
Permit Submittal
11 March 2021

21-07 Mendez | Loads | 3/9/2021 | 1

Dead Load

Estimate from foundry = 280 lbs

Conservative assumption = 350 lbs including misc. angle and bolts

Live Load

5 psf lateral partition load

Wind Load

Interior, no wind loads

Seismic Loads

ASCE 7-16, ch. 13

$a_p = 2.5$ Signs + billboards
$R_p = 3.0$
$\Omega = 2.0$

$S_{DS} = 1.46$ assume $z = h$ (conservative)
$I_p = 1.0$

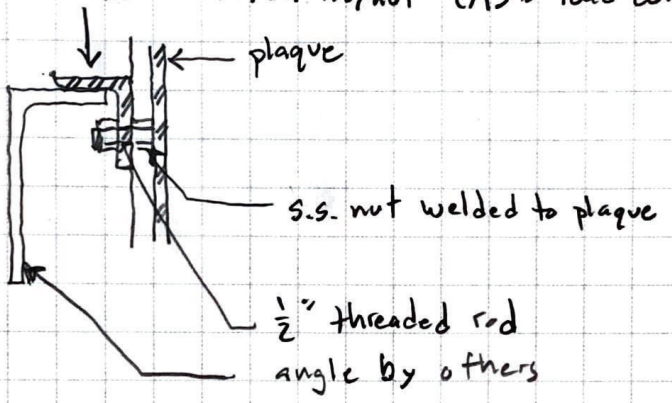
$$F_p = \frac{0.4\, a_p\, S_{DS}\, W_p}{R_p/I_p}\left(1 + 2\frac{z}{h}\right) = \frac{0.4 \cdot 2.5 \cdot 1.46\, W_p}{3.0}(1+2) = 1.46\, W_p$$

$F_p = 1.46 \cdot 350 \text{ lbs} = 511 \text{ lbs}$

$\text{Force/ft} = \frac{511 \text{ lbs}}{5' \times 5'} = 20.4 \text{ psf} > 5 \text{ psf}$ ∴ seismic load governs

Check gravity connection

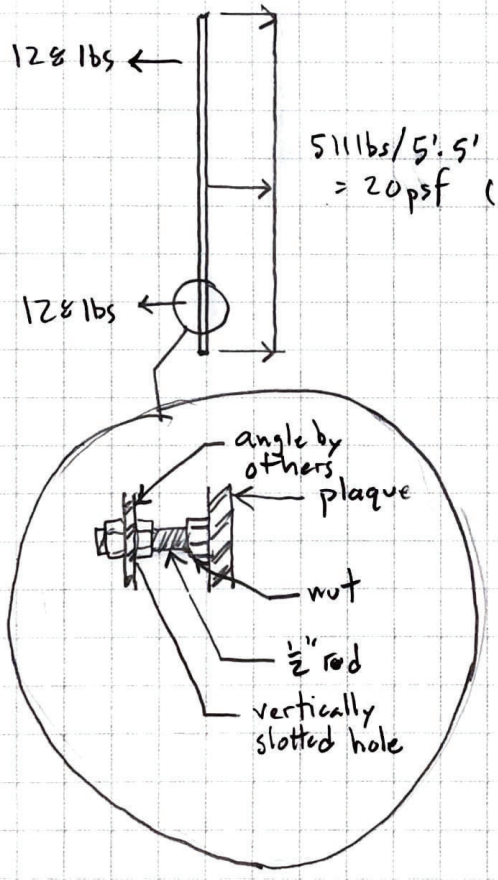
350lb/3 nuts = 117 lbs/nut (ASD load combo)



- Angle bearing: ¾" bearing, O.K. by inspection
- nut welded to plaque. V = 117 lbs
  1/8" weld = 1.9 k/in
  req'd weld = $\frac{0.117^{k}}{1.9^{k}/in}$ = 1/16" long weld. O.K.
- ½" bolt $R_n = F_{nv} A_b = 0.6 \cdot 30ksi \cdot 0.141in^2 = 2.54^{k}$

  $\frac{R_n}{\Omega} = \frac{2.54}{2} = 1.27^{k} > 0.117^{k}$ O.K.

Check seismic connection



(4) bolts total

$\frac{511\ lbs}{4} = 128\ lbs/b\text{-}lt$ (LRFD)

- Check nut welding $P = 128\ lbs$

  $\frac{1}{8}$" weld = 2.8 K/in

  req'd weld = $\frac{0.128\ lbs}{2.8\ K/in} = \frac{1}{16}$" long weld O.K.

- Check $\frac{1}{2}$" bolt

$\phi R_n = 0.75\ F_{nt}\ A_b$

$= 0.75 \cdot 30\ ksi \cdot 0.141\ in^2$

$= 3.2^K > 0.128^K$ O.K.