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DRAWING RELEASE HISTORY		
TYPE	DATE	DESCRIPTION
APPROVAL DRAWINGS	2-6-2009	FOR APPROVAL - NOT FOR CONSTRUCTION
ANCHOR BOLT PLAN REV. # 1	3-16-2009	FOR CONSTRUCTION
FINAL ERECTION DRAWINGS	5/4/09	FOR CONSTRUCTION

**GENERAL NOTES**

**MATERIALS**

3 PLATE WELDED SECTIONS  
 COLD FORMED LIGHT GAGE SHAPES  
 BRACE RODS  
 HOT ROLLED MILL SHAPES  
 HOLLOW STRUCTURAL SECTION (HSS)  
 CLADDING

**ASTM DESIGNATION**

A529, A572, A1011 SS  
 A1011 SS  
 A572  
 A36, A572, A529, A992  
 A500  
 A653, A792

**GRADE 50**  
 GRADE 55  
 GRADE 65, UNLESS NOTED  
 GRADE 36 KSI OR GRADE 50  
 GRADE B  
 GRADE 50 CLASS 2 OR GRADE 80

**A325 BOLT TIGHTENING REQUIREMENTS**

IT IS THE RESPONSIBILITY OF THE ERECTOR TO INSURE PROPER BOLT TIGHTNESS IN ACCORDANCE WITH APPROPRIATE REGULATIONS. THE FOLLOWING CRITERIA IS IN COMPLIANCE WITH THE LATEST SPECIFICATIONS, HOWEVER THE ERECTOR IS RESPONSIBLE TO VERIFY LOCAL AUTHORITY REQUIREMENTS.  
 ALL CONNECTIONS MADE WITH A325 BOLTS MAY BE TIGHTENED TO THE "SNUG TIGHT" CONDITION AS PERMITTED BY THE SPECIFICATION FOR STRUCTURAL JOINTS USING A325 OR A490 BOLTS (2000 ED.), UNLESS INDICATED AS "PRE-TENSIONED" ELSEWHERE IN THESE DRAWINGS, OR AS INDICATED BELOW.

PRE-TENSION BOLTS ON PRIMARY FRAMING, BOLTED BRACING, AND STRUT CONNECTIONS IF LOCATED IN SEISMIC PERFORMANCE / DESIGN CATEGORY D, E OR F (ZONE 3 OR 4). SEE CODES AND LOADS NOTES BELOW FOR SEISMIC DESIGN CATEGORY.

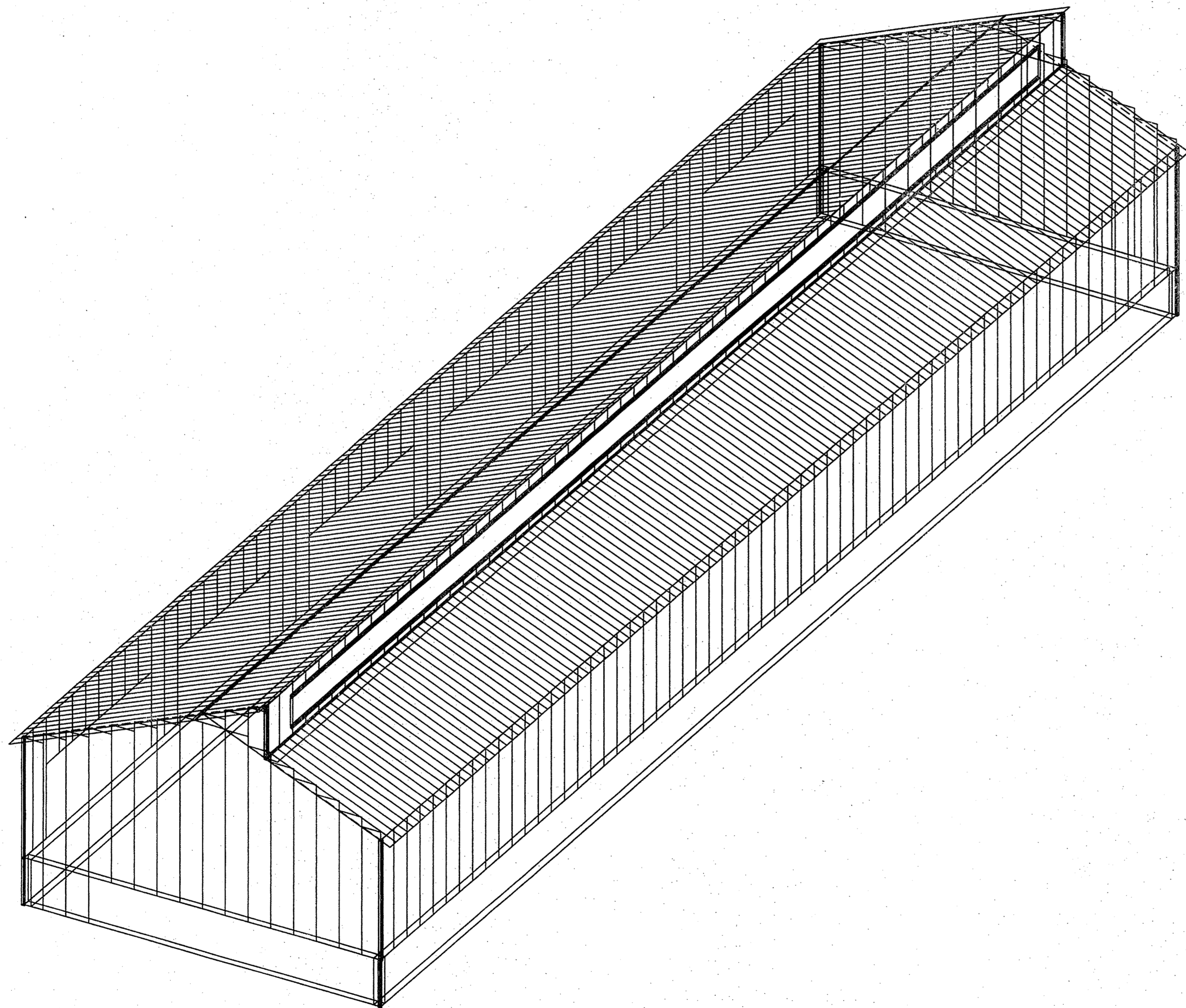
PRE-TENSION BOLTS ON PRIMARY FRAMING, BOLTED BRACING, STRUTS AND CRANE RUNWAY CONNECTIONS IF BUILDING SUPPORTS A CRANE WITH A CAPACITY GREATER THAN 5 TONS.

CONNECTIONS THAT SUPPORT RUNNING MACHINERY AND OTHER SOURCES OF IMPACT OR STRESS REVERSAL MUST BE PRE-TENSIONED.

ALL SLIP CRITICAL CONNECTIONS AS INDICATED IN THESE DRAWINGS WITH -SC DESIGNATION MUST BE PRE-TENSIONED. SC TYPE CONNECTIONS MUST BE FREE OF PAINT, OIL OR OTHER MATERIALS THAT REDUCE THE FRICTION AT CONTACT SURFACES.

ALL A490 BOLTS MUST BE PRE-TENSIONED WITH WASHERS UNDER TURNED ELEMENT.

SECONDARY MEMBERS AND FLANGE BRACE CONNECTIONS ARE ALWAYS "SNUG TIGHTENED", EVEN IF ABOVE CONDITIONS EXIST, UNLESS SPECIFICALLY NOTED OTHERWISE ON DETAILS.  
 WASHERS ARE NOT REQUIRED FOR "SNUG-TIGHT" CONNECTIONS. PRE-TENSIONED CONNECTIONS TIGHTENED USING THE TURN-OF-THE-NUT METHOD DO NOT REQUIRE WASHERS.



**DAMMON ENGINEERING INC**  
 Date: 5.12.09 Project: Stennis ROP  
 Reviewed as Noted: X  
 Revises and Resubmit: \_\_\_\_\_  
 Rejected: \_\_\_\_\_  
 Other: \_\_\_\_\_

Corrections or comments made on the shop drawings during this review do not relieve the contractor from compliance with requirements of the drawings and specifications. This check is only for review of the general conformance with the design concept of the project and general compliance with the information given in the contract documents. This contractor is responsible for: confirming and completing all quantities and dimensions; selecting fabrication processes and techniques of construction; coordinating his or her work with that of all other trades and performing all in a safe and satisfactory manner.

Submital Item: Pre-Eng. Bldg. 2442  
 Comments: \_\_\_\_\_

**BROADMOOR, L.L.C.**

I hereby agree that the (equipment) (material) (article) shown and marked in this submittal is that proposed to be incorporated with contract number N69450-05-D-0096, is in compliance with the contract documents, can be installed in the allocated spaces, and is submitted for Government approval.

B. Beard 5/12/09  
 DQC Manager Date

John M. Culler 5/12/09  
 Date

**CODES AND LOADS**

WHEN MULTIPLE BUILDINGS ARE INVOLVED, SPECIFIC LOAD FACTORS FOR DIFFERING OCCUPANCIES, BUILDING DIMENSIONS, HEIGHTS, FRAMING SYSTEMS, ROOF SLOPES, ETC., MAY RESULT IN DIFFERENT LOAD APPLICATION FACTORS THAN INDICATED BELOW. SEE CALCULATIONS FOR FURTHER DETAILS.

Building Code: 2006 International Building Code  
 Boat Storage Building: Building Use: Standard Occupancy Structure, Collateral Gravity: 5.00 psf (Not Including bldg wt)  
 Clerestory A: Building Use: Standard Occupancy Structure, Collateral Gravity: 5.00 psf (Not Including bldg wt)

**LIVE LOADS AND RAINFALL**  
 Live Load 20.00 psf (Not Reducible)  
 Rainfall: 10.00 inches per hour

**SNOW LOAD**  
 Ground Snow: 5.00 psf, Flat Roof Snow: 3.15 psf  
 Snow Exposure Category (Factor): 1 Fully Exposed (0.90)  
 Snow Importance: 1.000 Thermal Category (Factor): Heated (1.00)

**WIND LOAD**  
 Wind Speed: 130.00 mph, Wind Exposure: B  
 Basic Wind Pressure: 24.99 (Parts) 25.76 psf  
 Wind Importance Factor: 1.000, Ft= Topographic Factor: 1.0000  
 Wind Enclosure: Enclosed, 0.180  
 Note: All windows, doors, skylights and other covered openings must be designed for the specified above wind loads

**EARTHQUAKE DESIGN DATA**  
 Lateral Force Resisting Systems using Equivalent Force Procedure  
 Mapped Spectral Response - Ss: 11.80 %, S1: 5.10 %  
 Seismic Hazard / Use Group: Group 1  
 Seismic Performance / Design Category: B (See Bolt Tightening Note Above)  
 Seismic Snow Load: 0.00 psf  
 Seismic Importance: 1.000  
 Soil Profile Type: Stiff soil (D, 4)  
 Design Spectral Response - Sds: 0.1258, Sd1: 0.0816

Ordinary Steel Moment Frames  
 Frame Redundancy Factor: 1.0000  
 Framing R-Factor: 3.0000, Frame Seismic Factor (%): 0.0420, Design Base Shear = 0.0420 W

Ordinary Steel Concentric Braced Frames  
 Brace Redundancy Factor: 1.0000  
 Bracing R-Factor: 3.0000, Brace Seismic Factor (%): 0.0420, Design Base Shear = 0.0420 W

**FOR CONSTRUCTION**

RONNIE D. PALMER  
 ENGINEER  
 MISSISSIPPI  
 NO. 7097  
 2/6/09  
 pgs. 1-32 For Approval.  
 D&D 3/10/09 pgs. 1-5 For Const.

MRE  
 8/10/09  
 P1-33  
 FOR CONST

MRE  
 FOR CONST  
 1/8/09  
 P1-3  
 MRE  
 6 FEB 09  
 FOR APPROVAL  
 P1-32

VP Buildings, Inc. 3200 Players Club Circle Memphis TN 38125

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VP BUILDINGS, INC.  
 AISC CAT. MB CERTIFIED

COVER SHEET		VP BUILDINGS VARCO-PRUDEN	JOBNO 08-28914
BUILDER	Broadmoor, LLC		
CUSTOMER	John F. Stennis Space Center	DRAWN / CHECK	RAT
LOCATION	Stennis Space Center, Mississippi	PAGE	1
PROJECT	Riverine and Combatant Craft Operations Facility	VPC VERSION 7.1c	
BUILDERS Proj#			