

VP BUILDINGS

VARCO PRUDEN

A BlueScope Steel Company

DRAWING INDEX

DRAWING TITLE	PAGES
Cover Sheet	1
Notes	2
Anchor Rod Plan	3-4
Primary Structural	5-13
Secondary Structural	14-20
Covering	21-29
Special Drawings	30-31
Standard Erection Details	32-35

DRAWING RELEASE HISTORY

TYPE	DATE	DESCRIPTION
Approval Drawings	2/9/2009	FOR APPROVAL - NOT FOR CONSTRUCTION
Anchor Rod Plan REV. # 1	3/16/2009	FOR CONSTRUCTION

GENERAL NOTES

MATERIALS

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

ASTM DESIGNATION
 A529, A572, A1011, A1018
 A853, A1011
 A572
 A36, A529, A572, A588, A709, A992
 A529, A572, A588, A709, A992
 A500
 A653, A792

GRADE 55
 GRADE 60
 GRADE 50
 GRADE 36 KSI UNLESS NOTED
 GRADE 60
 GRADE B
 GRADE 50 OR GRADE 80

A325 & A490 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 (2004 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 IBC SEISMIC PERFORMANCE / DESIGN CATEGORY D, E OR F, UBC ZONE 3 OR 4. SEE CODES AND LOADS NOTES BELOW FOR FOR SEISMIC DESIGN CATEGORY. PRE-TENSION ALL PRIMARY FRAMING CONNECTIONS IN CANADA.

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.

CONNECTIONS DESIGNATED AS A325-X OR A490-X SHALL BE INSTALLED WITH BOLT HEAD ON SIDE OF THE THINNEST PLATE BEING CONNECTED.

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 A325 OR A490 CONNECTIONS TIGHTENED USING THE TURN-OF-THE-NUT METHOD DO NOT REQUIRE WASHERS. A490 BOLTS MUST ALWAYS BE PRE-TENSIONED.

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
 Operations Building: Building Use: Standard Occupancy Structure, Collateral Gravity: 5.00 psf (Not Including bldg wt)
 Operations Building Lean-to: Building Use: Standard Occupancy Structure, Collateral Gravity: 5.00 psf (Not Including bldg wt)
 Main: 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
 Operations Building : Mezzanine 1 @ 12/8/0: FD=50.00 psf, FL=100.00 psf (Not Reducible, Coll. Load:= 5.00 psf, Partition Load:= 10.00 psf)

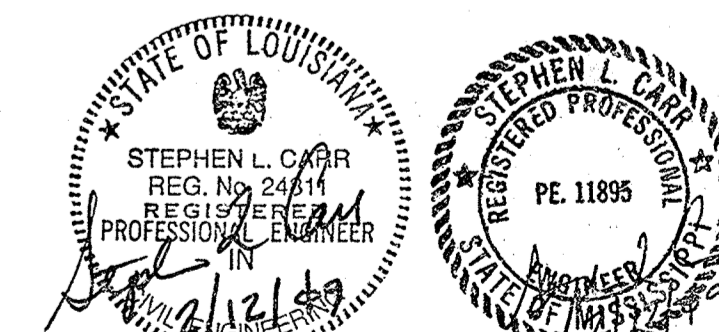
SNOW LOAD
 Ground Snow: 5.00 psf, Flat Roof Snow: 3.15 psf
 Snow Exposure Category (Factor): 1 Fully Exposed (0.90)
 Snow Importance: 1.000 Thermal Category (Factor): Heated (1.00)

WIND LOAD
 Wind Speed: 130.00 mph, Wind Exposure: B
 Basic Wind Pressure: 25.92 psf
 Wind Importance Factor: 1.000, Ft= Topographic Factor: 1.0000
 Wind Enclosure: Enclosed, 0.190
 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 %g, S1: 5.10 %g
 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: 0.1259, 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

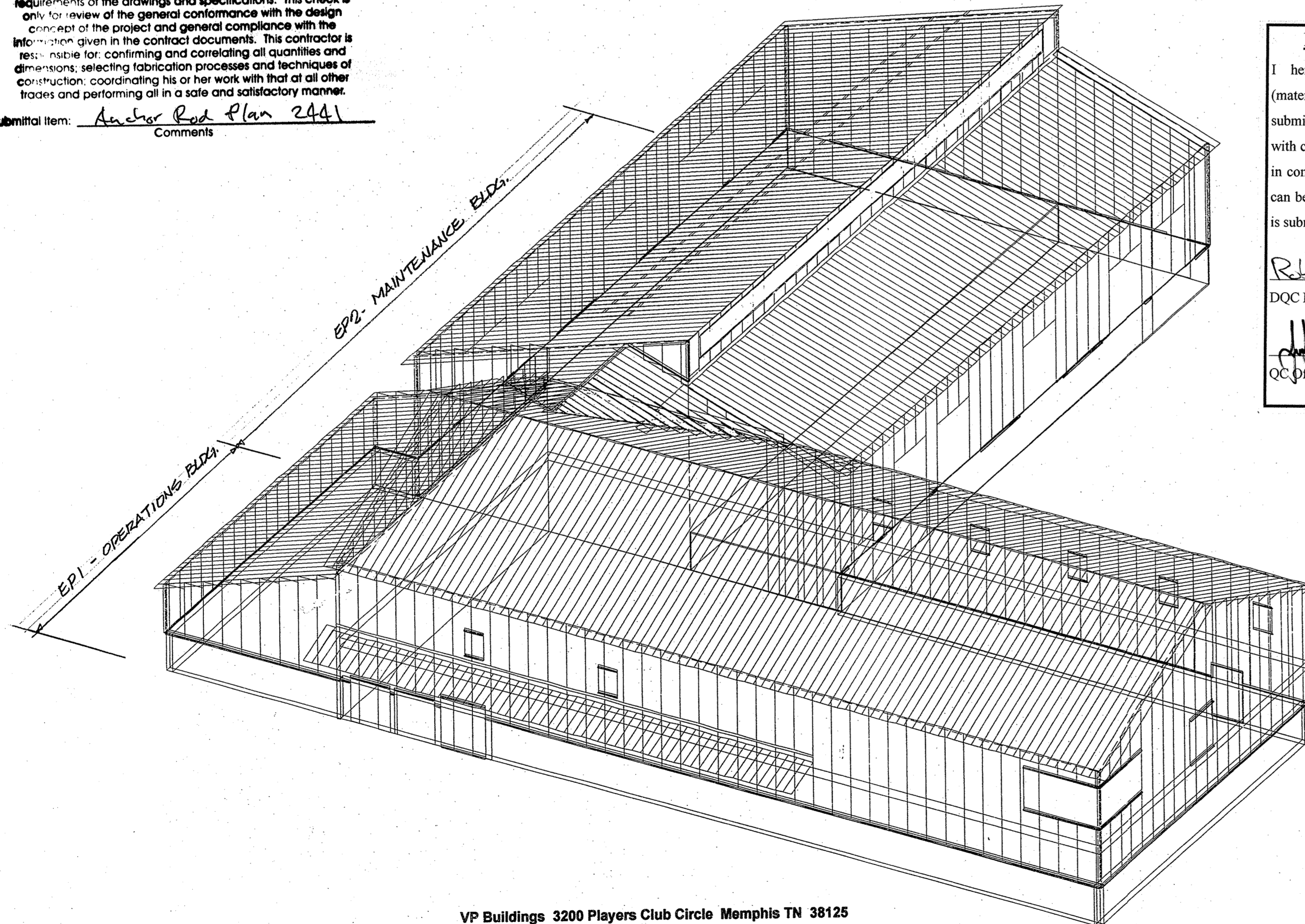
FOR CONSTRUCTION



DAMMON ENGINEERING INC
 Date: 4-30-09 Project: Stennis RCF
 Reviewed: X
 Reviewed as Method:
 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 correlating 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.

Submittal Item: Anchor Rod Plan 2441
 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.

Reviewed 4-30-09
 DQC Manager Date
 4/30/09
 QC Office Date

Andon B. EP2
 SCANNED
 Date 3/1/09 Initials PAC

Approval
 SCANNED
 Date 3/1/09 Initials PAC

VP Buildings 3200 Players Club Circle Memphis TN 38125

THE VP ENGINEER'S SEAL APPLIES ONLY TO THE WORK PRODUCT OF VP AND DESIGN AND PERFORMANCE REQUIREMENTS SPECIFIED BY VP. THE VP ENGINEER'S SEAL DOES NOT APPLY TO THE PERFORMANCE OR DESIGN OF ANY OTHER PRODUCT OR COMPONENT FURNISHED BY VP EXCEPT TO ANY DESIGN OR PERFORMANCE REQUIREMENTS SPECIFIED BY VP.

THIS DRAWING, INCLUDING THE INFORMATION HEREON, REMAINS THE PROPERTY OF VP BUILDINGS.
 IT IS PROVIDED SOLELY FOR ERECTING THE BUILDING DESCRIBED IN THE APPLICABLE PURCHASE ORDER AND SHALL NOT BE MODIFIED, REPRODUCED OR USED FOR ANY OTHER PURPOSE WITHOUT PRIOR WRITTEN APPROVAL OF VP BUILDINGS.
 THE GENERAL CONTRACTOR AND/OR ERECTOR IS SOLELY RESPONSIBLE FOR ACCURATE, GOOD QUALITY WORKMANSHIP IN ERECTING THIS BUILDING IN CONFORMANCE WITH THIS DRAWING, DETAILS REFERENCED IN THIS DRAWING, ALL APPLICABLE VP BUILDINGS ERECTION GUIDES, AND INDUSTRY STANDARDS PERTAINING TO PROPER ERECTION, INCLUDING THE CORRECT USE OF TEMPORARY BRACING.



COVER SHEET

BUILDER	Broadmoor, LLC	JOB NO	08-28914 EP2
CUSTOMER	John F. Stennis Space Center	DATE	2/9/2009
LOCATION	Stennis Space Center, Mississippi	DRAWN / CHECK	MW/M
PROJECT	Riverline and Combatant Craft Operations Facility	PAGE	1
BUILDERS PO#		VP VERSION:	7.1c

