VP BUILDINGS

VARCO PRUDEN

A BlueScope Steel Company

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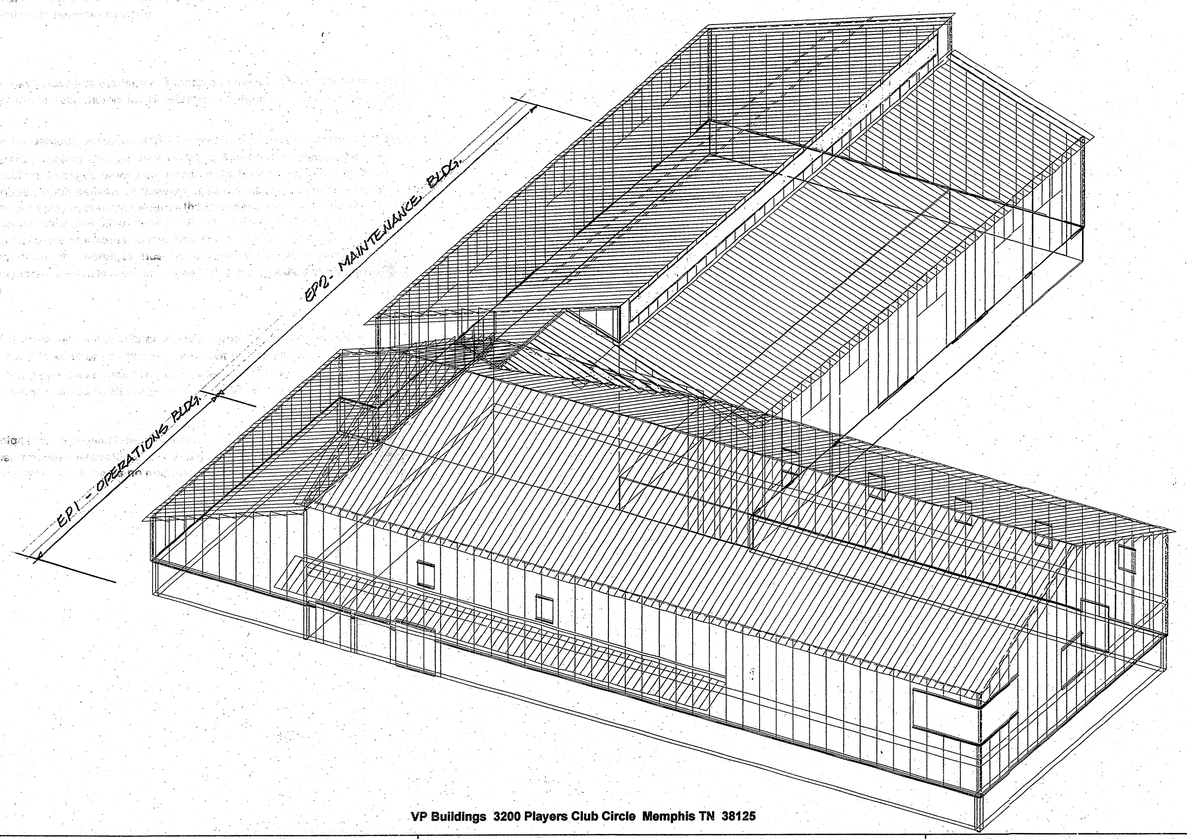
DRAWING RELEASE HISTORY		
TYPE	DATE	DESCRIPTION
Approval Drawings	2/9/2009	FOR APPROVAL- NOT FOR CONSTRUCTION



VP Buildings 3200 Players Club Circle Memphis TN 38125

Approval
SCANNED
Date 2/10/09 Initials DRC

GENERAL NOTES

MATERIALS

	ASTM DESIGNATION	
3 PLATE WELDED SECTIONS	A529, A572, A1011, A1018	GRADE 55
COLD FORMED LIGHT GAGE SHAPES	A653, A1011	GRADE 60
BRACE RODS	A572	GRADE 50
HOT ROLLED MILL SHAPES	A36, A529, A572, A588, A709, A992	GRADE 36 KSI UNLESS NOTED
HOT ROLLED ANGLES	A529, A572, A588, A709, A992	GRADE 50
HOLLOW STRUCTURAL SECTION (HSS)	A500	GRADE B
CLADDING	A653, A792	GRADE 80 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 @ 12/9/0: 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, 0.180
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 %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 (%s): 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 (%s): 0.0420, Design Base Shear = 0.0420 W

APPROVED OF DRAWINGS
These drawings are released for review and APPROVAL ONLY. Please review carefully. Approval constitutes the Builder / Contractor's acceptance of the Varco-Pruden tion is pending the return of one set signed by Builder / Contractor.
☐ Approved as Submitted ☐ Approved as Noted
☐ Disapproved, Please resubmit.
Builder Contr_____ Date_____
VP Buildings
2222 W. 7th Street
Pine Bluff, AR 71602

"For Approval"
Pgs 1-35

STATE OF LOUISIANA
STEPHEN L. CARR
REG. No 24611
REGISTERED
PROFESSIONAL ENGINEER
IN
CIVIL ENGINEERING
2/12/09

MOE
FOR ROOF
12 PGS 09
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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.

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.

CANICSA A660 QUASAR Certified

ACCREDITED AC172

COVER SHEET

BUILDER	Broadmoor, LLC
CUSTOMER	John F. Stennis Space Center
LOCATION	Stennis Space Center, Mississippi
PROJECT	Riverine and Combatant Craft Operations Facility
BUILDERS PO#	

VP BUILDINGS VARCO PRUDEN
A BlueScope Steel Company
VPC VERSION: 7.1c

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DATE	2/9/2009
DRAWN / CHECK	MWM
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