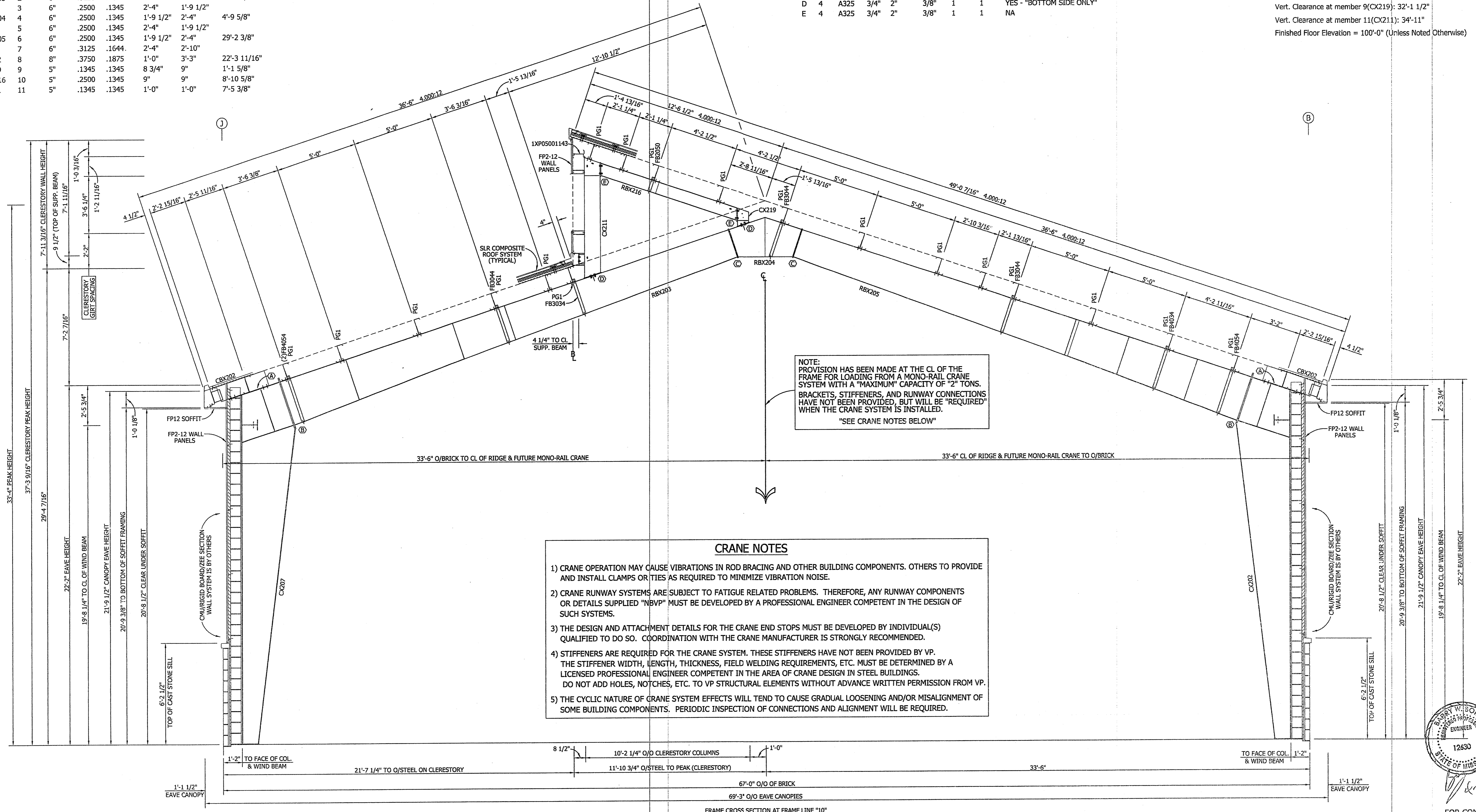


Part	Mem	Width	Thick	WebThk.	Depth1	Depth2	Approx.Lgth
CBX202	10001	5"	.1345	.1345	11 1/2"	11 1/2"	3'-1 1/8"
CBX202	10002	5"	.1345	.1345	11 1/2"	11 1/2"	3'-1 1/8"
CX207	1	8"	.3750	.1875	1'-0"	3'-3"	22'-3 11/16"
RBX203	2	6"	.3125	.1644	2'-10"	2'-4"	29'-2 3/8"
	3	6"	.2500	.1345	2'-4"	1'-9 1/2"	
RBX204	4	6"	.2500	.1345	1'-9 1/2"	2'-4"	4'-9 5/8"
	5	6"	.2500	.1345	2'-4"	1'-9 1/2"	
RBX205	6	6"	.2500	.1345	1'-9 1/2"	2'-4"	29'-2 3/8"
	7	6"	.3125	.1644	2'-4"	2'-10"	
CX202	8	8"	.3750	.1875	1'-0"	3'-3"	22'-3 11/16"
CX219	9	5"	.1345	.1345	8 3/4"	9"	1'-1 5/8"
RBX216	10	5"	.2500	.1345	9"	9"	8'-10 5/8"
CX211	11	5"	.1345	.1345	1'-0"	1'-0"	7'-5 3/8"

Bolt Connection & Plate Schedule								
Id	Qty	ASTM	Bolt Dia.	Bolt Length	Plate Thick.	Rows Out	Rows In	Washer
A	8	A325	1/2"	1 1/2"	NA	2	2	NA
B	8	A325	3/4"	2"	1/2"	2	2	NA
C	8	A325	3/4"	2"	3/8"	1	3	NA
D	4	A325	3/4"	2"	3/8"	1	1	YES - "BOTTOM SIDE ONLY"
E	4	A325	3/4"	2"	3/8"	1	1	NA

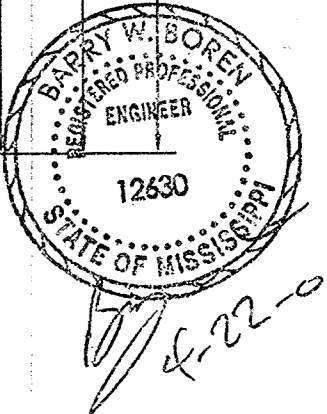
Frame Clearances
 Horiz. Clearance between members 1(CX207) and 8(CX202): 58'-0 3/16"
 Vert. Clearance at member 1(CX207): 19'-5"
 Vert. Clearance at member 8(CX202): 19'-5"
 Horiz. Clearance between members 9(CX219) and 11(CX211): 8'-5 1/4"
 Vert. Clearance at member 9(CX219): 32'-1 1/2"
 Vert. Clearance at member 11(CX211): 34'-11"
 Finished Floor Elevation = 100'-0" (Unless Noted Otherwise)



NOTE:
 PROVISION HAS BEEN MADE AT THE CL OF THE FRAME FOR LOADING FROM A MONO-RAIL CRANE SYSTEM WITH A "MAXIMUM" CAPACITY OF "2" TONS. BRACKETS, STIFFENERS, AND RUNWAY CONNECTIONS HAVE NOT BEEN PROVIDED, BUT WILL BE "REQUIRED" WHEN THE CRANE SYSTEM IS INSTALLED.
 "SEE CRANE NOTES BELOW"

CRANE NOTES

- 1) CRANE OPERATION MAY CAUSE VIBRATIONS IN ROD BRACING AND OTHER BUILDING COMPONENTS. OTHERS TO PROVIDE AND INSTALL CLAMPS OR TIES AS REQUIRED TO MINIMIZE VIBRATION NOISE.
- 2) CRANE RUNWAY SYSTEMS ARE SUBJECT TO FATIGUE RELATED PROBLEMS. THEREFORE, ANY RUNWAY COMPONENTS OR DETAILS SUPPLIED "NBVP" MUST BE DEVELOPED BY A PROFESSIONAL ENGINEER COMPETENT IN THE DESIGN OF SUCH SYSTEMS.
- 3) THE DESIGN AND ATTACHMENT DETAILS FOR THE CRANE END STOPS MUST BE DEVELOPED BY INDIVIDUAL(S) QUALIFIED TO DO SO. COORDINATION WITH THE CRANE MANUFACTURER IS STRONGLY RECOMMENDED.
- 4) STIFFENERS ARE REQUIRED FOR THE CRANE SYSTEM. THESE STIFFENERS HAVE NOT BEEN PROVIDED BY VP. THE STIFFENER WIDTH, LENGTH, THICKNESS, FIELD WELDING REQUIREMENTS, ETC. MUST BE DETERMINED BY A LICENSED PROFESSIONAL ENGINEER COMPETENT IN THE AREA OF CRANE DESIGN IN STEEL BUILDINGS. DO NOT ADD HOLES, NOTCHES, ETC. TO VP STRUCTURAL ELEMENTS WITHOUT ADVANCE WRITTEN PERMISSION FROM VP.
- 5) THE CYCLIC NATURE OF CRANE SYSTEM EFFECTS WILL TEND TO CAUSE GRADUAL LOOSENING AND/OR MISALIGNMENT OF SOME BUILDING COMPONENTS. PERIODIC INSPECTION OF CONNECTIONS AND ALIGNMENT WILL BE REQUIRED.



1. USE 1/2 X 1 1/2 A325 SNUG TIGHTENED BOLTS FOR PURLINE TO FRAME, GIRT TO FRAME, AND GIRT TO CLIP CONNECTIONS UNLESS NOTED OTHERWISE.
 2. SLOT REINFORCEMENT PLATES NEED NOT BE LOCATED ON THE SAME SIDE OF THE WEB AS THE HILLSIDE WASHER.

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.

Shape Name = Maintenance Area Wall 4, Frame 2

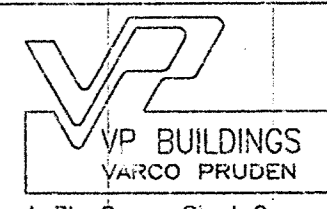
THIS DRAWING, INCLUDING THE INFORMATION HEREON, REMAINS THE PROPERTY OF VP BUILDINGS. IT IS PROVIDED SOLELY FOR THE BUILDING DESCRIBED IN THE APPLICABLE PURCHASE ORDER AND SHALL NOT BE MODIFIED, REPRODUCED OR USED FOR ANY OTHER PURPOSE WITHOUT PRIOR WRITTEN APPROVAL OF VP BUILDINGS.
 THE GENERAL CONTRACTOR 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 ERECTION GUIDES, AND INDUSTRY STANDARDS PERTAINING TO PROPER ERECTION, INCLUDING THE CORRECT USE OF TEMPORARY BRACKETS.

VP Buildings
 3200 Players Club Circle Memphis TN 38125

REV	DATE	BY	DESCRIPTION

FRAME CROSS SECTION AT FRAME LINE "10"

BUILDER: Broadmoor, LLC
 CUSTOMER: John F. Stennis Space Center
 LOCATION: Stennis Space Center, Mississippi
 PROJECT: Riverine and Combatant Craft



JOBNO: GB-28914-EP2
 DATE: 4/21/09
 DRAWN/CHECK: ODM/ODN

FOR CONSTRUCTION