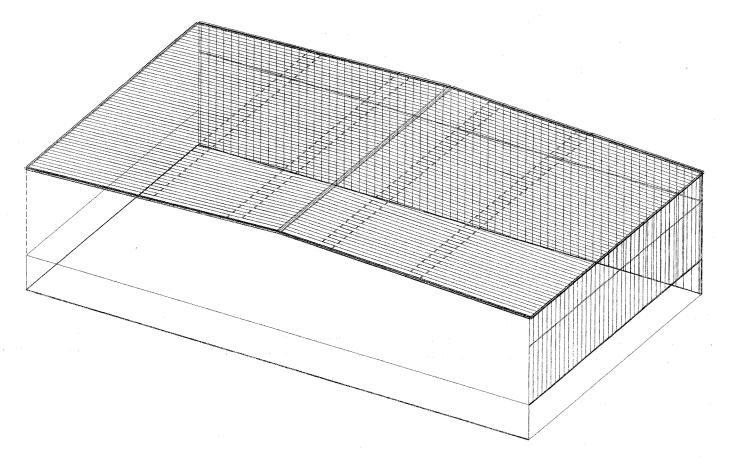
Concept elevations, final design pending



DRAWING INDEX		DRAWING RELEASE HISTORY		
DRAWING TITLE	PAGES	TYPE	DATE	DESCRIPTION
Cover Sheet	1	A. Rod drawings	2-5-09	FOR CONSTRUCTION
Notes	2	ERECTION DRAWINGS	2-13-09	
Anchor Rod Plan	3	Ŷ		For construct from
Primary Structural	4-11	<u>N</u>		
Secondary Structural	12-14			
Covering	15.19			
Special Drawings				
Standard Erection Details	20-22	7		



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.



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

A36, A529, A572, A588, A709, A992 A529, A572, A588, A709, A992 A653, A792

GRADE 55 GRADE 60 GRADE 36 KSI UNLESS NOTED GRADE 50

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

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 Waste Transfer Station : Building Use:Standard Occupancy Structure, Collateral Gravity: 3.00 psf (Not Including bidg wt) LIVE LOADS AND RAINFALL Live Load 20.00 psf (Reducible) Rainfall: 8.00 inches per hour

SNOWLOAD

Ground Snow: 15.00 psf, Flat Roof Snow: 12.60 psf Snow Exposure Category (Factor): 2 Partially Exposed (1.00) Snow Importance: 1.000 Thermal Category (Factor): Unheated (1.20)

WIND LOAD

Wind Speed: 95.00 mph, Wind Exposure: B Basic Wind Pressure: 15.83 psf Wind Importance Factor: 1.000, Ft= Topographic Factor: 1.0000 Wind Enclosure: Partially Enclosed, 0.550 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:24.10 %g, S1:10.10 %g Seismic Hazard / Use Group: Group 1 Seismic Performance / Design Category: C (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: 0.2571, Sd1: 0.1616

Ordinary Steel Moment Frames

Frame Redundancy Factor:1.0000

Framing R-Factor: 3.0000, Frame Seismic Factor (%s): 0.0855, Design Base Shear = 0.0855 W **Ordinary Steel Concentric Braced Frames**

Brace Redundancy Factor:1.0000

Bracing R-Factor: 3.0000, Brace Seismic Factor (%s): 0.0857, Design Base Shear = 0.0857 W



09-379

VEM

2-5-2009



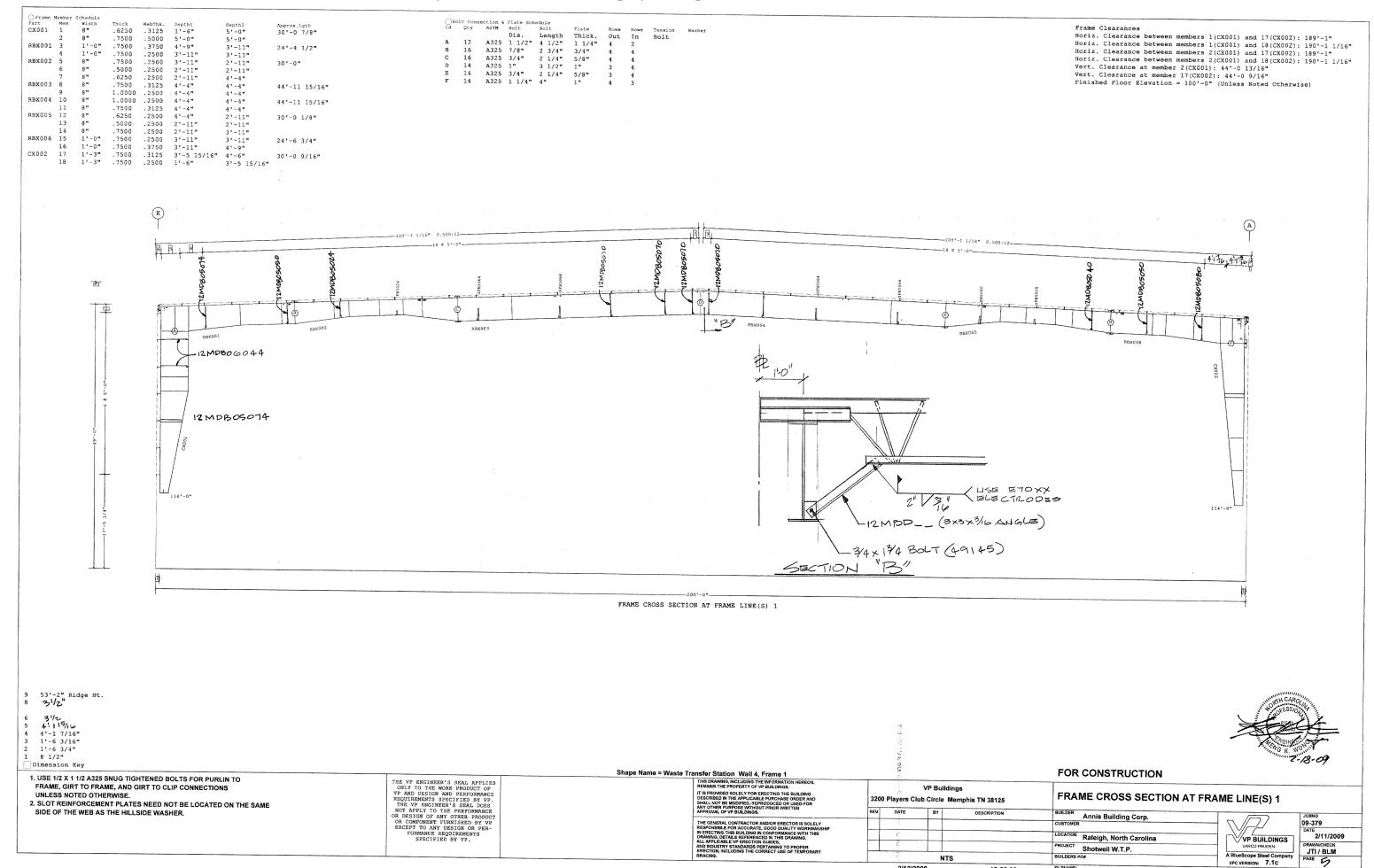
COVER SHEET

Annis Building Corp. Raleigh, North Carolina Shotwell W.T.P.

VP BUILDINGS

FILENAME 2256-08-1403 revised ic at 1 & 2.VPC

Concept elevations, final design pending.



FILENAME: 2256-08-1403 revised ic at 1 & 2.VPC

2/12/2009

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