

AMERICAN BUILDINGS COMPANY
A Nucor Company

NOTES AND SPECIFICATIONS

BUILDING ERECTION NOTES

1) THE GENERAL CONTRACTOR AND/OR ERECTOR IS RESPONSIBLE TO SAFELY AND PROPERLY ERECT THE METAL BUILDING SYSTEM IN CONFORMANCE WITH THESE DRAWINGS, OSHA REQUIREMENTS, AND MBMA STANDARDS PERTAINING TO PROPER ERECTION. THIS INCLUDES, BUT IS NOT LIMITED TO, THE CORRECT USE OF TEMPORARY GUYS AND BRACING WHERE NEEDED FOR SQUARING, PLUMBING, AND SECURING THE STRUCTURAL AND SECONDARY FRAMING. SECONDARY WALL FRAMING MEMBERS (GIRTS OR BAR JOISTS) ARE NOT DESIGNED TO FUNCTION AS A WORK PLATFORM OR PROVIDE SAFETY TIE OFF ATTACHMENT IN ACCORDANCE WITH OSHA REQUIREMENTS. SECONDARY ROOF FRAMING MEMBERS (PURLINS OR BAR JOISTS) ARE NOT DESIGNED TO PROVIDE SAFETY TIE OFF ATTACHMENT IN ACCORDANCE WITH OSHA REQUIREMENTS.

2) ALL HIGH STRENGTH BOLTS ARE TYPE ASTM A325 AND ARE TO BE INSTALLED TO THE "SNUG-TIGHT" CONDITION AS DEFINED BY THE RCSC SPECIFICATION FOR STRUCTURAL JOINTS USING A325 OR A490 BOLTS, 2004 EDITION, SECTION 8.1, UNLESS NOTED OTHERWISE. ALSO, NOTE THAT BOLTS IN STANDARD HOLES DO NOT REQUIRE WASHERS PER THE RCSC SPECIFICATION FOR STRUCTURAL JOINTS USING A325 OR A490 BOLTS, SECTION 6.

3) ALL A307 MACHINE BOLTS ARE TO BE BROUGHT TO A "SNUG TIGHT" CONDITION TO ENSURE THAT THE MATERIALS IN THE JOINT ARE BROUGHT INTO GOOD CONTACT WITH EACH OTHER.

4) WASHERS ARE REQUIRED AT ALL SLOTTED CONNECTIONS AS FOLLOWS:
=HOLE TO SLOT CONNECTION, ONE WASHER REQUIRED ON SLOTTED SIDE.
=SLOT TO SLOT CONNECTION, TWO WASHERS REQUIRED, ONE ON EACH SIDE OF THE CONNECTION. HOWEVER AT LAPPED ZEE MEMBERS, WHETHER PURLINS OR GIRTS, NO WASHERS ARE REQUIRED IN THE 8-BOLT LAPPED REGION.

5) THE METAL BUILDING SUPPLIER SHALL BE NOTIFIED PRIOR TO ANY FIELD MODIFICATIONS. MODIFICATIONS SHALL BE APPROVED BY THE METAL BUILDING SUPPLIER BEFORE WORK IS UNDERTAKEN.

6) ALL WELDING MUST BE PERFORMED BY AWS QUALIFIED WELDERS FOR THE WELDING PROCESSES AND POSITIONS INDICATED. ALL WORK MUST BE COMPLETED AND INSPECTED IN ACCORDANCE WITH THE APPLICABLE AWS SPECIFICATIONS. WELD ELECTRODES USED FOR THE SMAW (OR STICK) WELD PROCESS MUST BE 70 KSI STEEL AND LOW HYDROGEN CONTENT.

7) COMMON ABBREVIATIONS:	
a) TYP UNO-TYPICAL UNLESS NOTED OTHERWISE	f) SIM.-SIMILAR
b) SLV-SHORT LEG VERTICAL	g) NIC-NOT IN CONTRACT
c) LLV-LONG LEG VERTICAL	h) SL-STEEL LINE
d) NS & FS-NEAR SIDE AND FAR SIDE	i) N/A-NOT APPLICABLE
e) O.A.L.-OVERALL LENGTH	j) MBS-METAL BUILDING SUPPLIER

8) CONSTRUCTION LOADS SHALL NOT BE PLACED ON ANY STRUCTURAL STEEL FRAMEWORK UNLESS SUCH FRAMEWORK IS SAFELY BOLTED, WELDED, OR OTHERWISE ADEQUATELY SECURED.

9) PURLINS AND GIRTS SHALL NOT BE USED AS AN ANCHORAGE POINT FOR A FALL ARREST SYSTEM UNLESS WRITTEN APPROVAL IS OBTAINED FROM THE METAL BUILDING SUPPLIER.

10) PURLINS MAY ONLY BE USED AS A WALKING/WORKING SURFACE WHEN INSTALLING SAFETY SYSTEMS AFTER ALL PERMANENT BRIDGING HAS BEEN INSTALLED AND FALL PROTECTION IS PROVIDED.

11) CONSTRUCTION LOADS MAY BE PLACED ONLY WITHIN A ZONE THAT IS WITHIN 8 FEET OF THE CENTER-LINE OF THE PRIMARY SUPPORT MEMBER. CFR BUNDLES SHOULD BE PLACED DIRECTLY OVER THE RIGID FRAMES.

12) ALL LIFTING DEVICES MUST MEET OSHA OR MSHA STANDARDS AND IN NO CASE IS IT ACCEPTABLE TO USE STRUCTURAL MEMBERS SUPPLIED BY THE MBS AS A SPREADER BAR OR LIFTING DEVICE.

GENERAL DESIGN NOTES AND MATERIAL SPECIFICATIONS

1) ALL STRUCTURAL STEEL SECTIONS AND WELDED PLATE MEMBERS ARE DESIGNED IN ACCORDANCE WITH THE AISC "SPECIFICATIONS FOR STRUCTURAL STEEL BUILDINGS-ALLOWABLE STRESS DESIGN", NINTH EDITION, OR THE AISC "SPECIFICATIONS FOR STRUCTURAL STEEL BUILDINGS", THIRTEENTH EDITION, AS REQUIRED BY THE SPECIFIED BUILDING CODE.

2) ALL WELDING OF STRUCTURAL STEEL IS BASED ON AWS D1.1 "STRUCTURAL WELDING CODE", LATEST EDITION.

3) ALL COLD FORMED MEMBERS ARE DESIGNED IN ACCORDANCE WITH AISI "SPECIFICATIONS FOR THE DESIGN OF COLD FORMED STEEL STRUCTURAL MEMBERS", LATEST EDITION.

4) ALL WELDING OF COLD FORMED STEEL IS BASED ON AWS D1.3 "STRUCTURAL WELDING CODE - SHEET STEEL", LATEST EDITION.

5) IF JOISTS ARE INCLUDED WITH THIS PROJECT, THEY ARE SUPPLIED AS A PART OF THE SYSTEMS-ENGINEERED METAL BUILDING AND ARE FABRICATED IN ACCORDANCE WITH THE REQUIREMENTS OF SECTION 1926.758 OF THE OSHA SAFETY STANDARD FOR STEEL ERECTION, DATED JANUARY 18, 2001.

6) MATERIAL SPECIFICATIONS:

PLATE AND FLANGE MATERIAL:
5"-12" WIDE & THRU 1" THICK _____ A529, GRADE 55
OTHERS _____ A572 GRADE 50 OR A36
BUILT-UP STRUCTURAL WEB MATERIAL _____ A1011 SS (OR HSLAS CL1) GR 55
HOT-ROLLED STRUCTURAL _____ A36 OR A572 GRADE 50 OR A992 GRADE 50
STRUCTURAL TUBE _____ A500 GRADE C (46 KSI)
STRUCTURAL PIPE _____ A500 GRADE B (42 KSI)
COLD-FORMED STRUCTURAL _____ A1011 OR A1039 SS (OR HSLAS CL1) GR 55
RPB ROOF PANELS _____ A792 GRADE 80
STANDING SEAM ROOF PANELS _____ A792 GRADE 50, CLASS 1
R-PANEL AND A-PANEL SIDING _____ A653 GRADE 80, CLASS 1 OR
A792 GRADE 80, CLASS 1
ROD BRACING _____ A529 GRADE 50
CABLE BRACING _____ A475 COATING CLASS A, GRADE EHS, 7-WIRE
WELDS _____ AWS D1.1 LATEST EDITION
HIGH-STRENGTH BOLTS _____ A325 TYPE 1 HEAVY HEX OR
A490 TYPE 1 HEAVY HEX
MACHINE BOLTS _____ A-307 GRADE A HEX

PROJECT NUMBER: PFVFD
PROJECT NAME: Prince Frederick VFD Rev. #1
PROJECT LOCATION: Prince Frederick, MD COUNTY: Calvert
CUSTOMER: Spring Contracting Group LLC Upper Marlboro, MD



PROJECT LOADS

DESIGN CODE: IBC 2015 BUILDING END USE: 4E
ROOF LIVE LOAD: 30 PSF MBMA OCC. CLASS: IV - Essential Facilities
NOT REDUCIBLE PER CODE
GROUND SNOW LOAD: 25 PSF SNOW EXP. FACTOR, Ce: 1
SNOW IMPORTANCE FACTOR, Is: 1.2
WIND: 120 WIND IMPORTANCE FACTOR, Iw: 1.15
EXPOSURE: C WITHIN HURRICANE COASTLINE YES NO
UL 90 YES NO

SEISMIC INFORMATION Ss:0.143, S1:0.049

Design Sds/Sd1: _____ Site Class: D
Seismic Imp. Factor Ie: 1.5 Seismic Design Category: _____
Analysis Procedure: Equivalent Lateral Force Method
Basic SFRS:

NOTES:

1) COLLATERAL DEAD LOADS, UNLESS OTHERWISE NOTED, ARE ASSUMED TO BE UNIFORMLY DISTRIBUTED. WHEN SUSPENDED SPRINKLER SYSTEMS, LIGHTING, HVAC EQUIPMENT, CEILING, ETC., ARE SUSPENDED FROM ROOF MEMBERS, CONSULT THE M.B.S. IF THESE CONCENTRATED LOADS EXCEED 200 POUNDS, OR IF INDIVIDUAL MEMBERS ARE LOADED SIGNIFICANTLY MORE THAN OTHERS.

2) THE DESIGN OF STRUCTURAL MEMBERS SUPPORTING GRAVITY LOADS IS CONTROLLED BY THE MORE CRITICAL EFFECT OF ROOF LIVE LOAD OR ROOF SNOW LOAD, AS DETERMINED BY THE APPLICABLE CODE.

BUILDING	
Apparatus Bays	
ROOF DEAD (PSF):	2.8
PRI. COL. (PSF):	5
SEC. COL. (PSF):	5
SNOW Ct:	1
SNOW Cs:	
ROOF SNOW (PSF):	30
WIND ENCLOSURE:	Enclosed
GCpi:	
SEISMIC R:	
SEISMIC Cs:	
BASE SHEAR (KIPS):	



PROJECT NAME:
PRINCE FREDERICK VFD REV. #1
PRINCE FREDERICK, MD

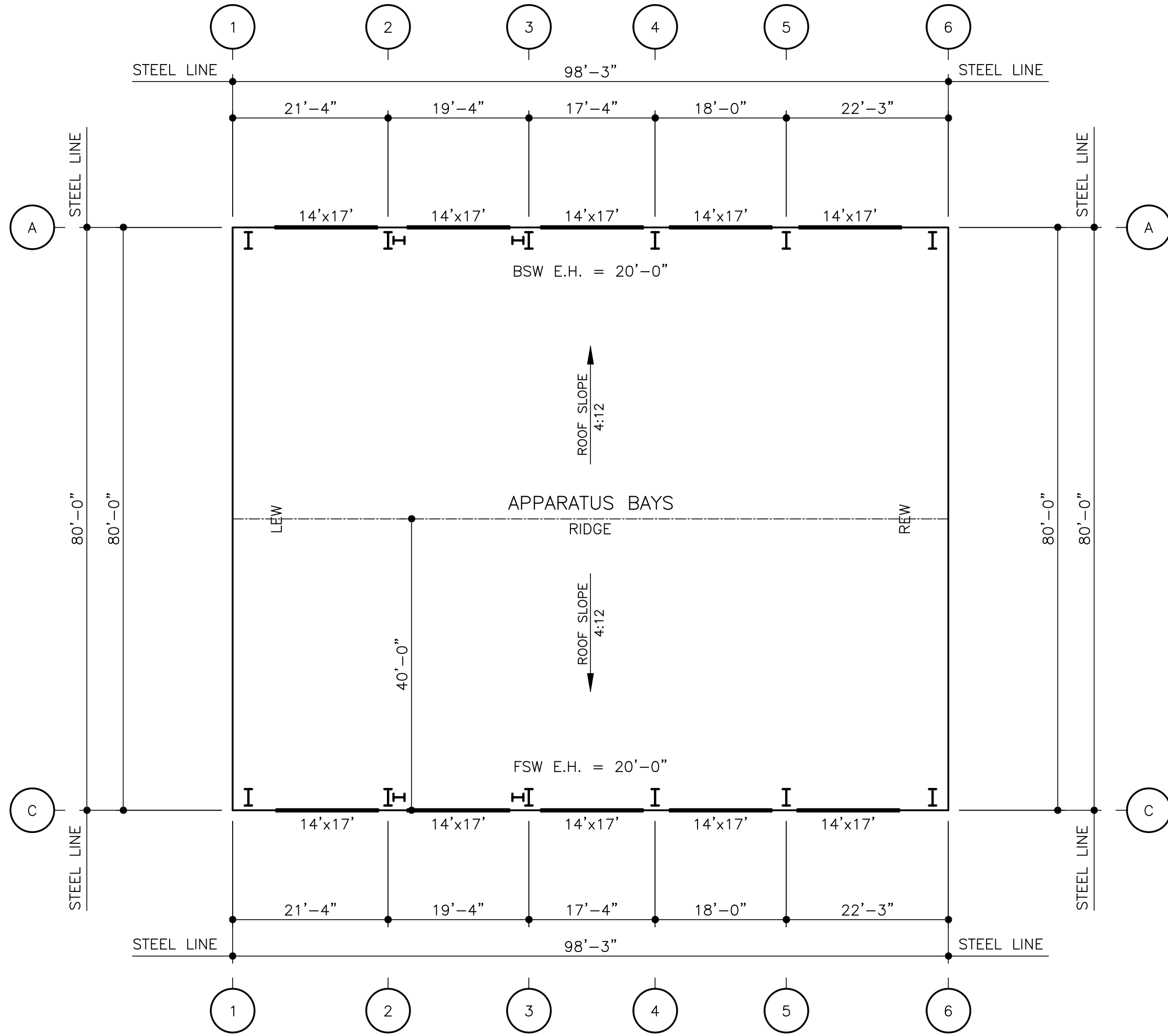
CUSTOMER NAME:
SPRING CONTRACTING GROUP LLC
UPPER MARLBORO, MD

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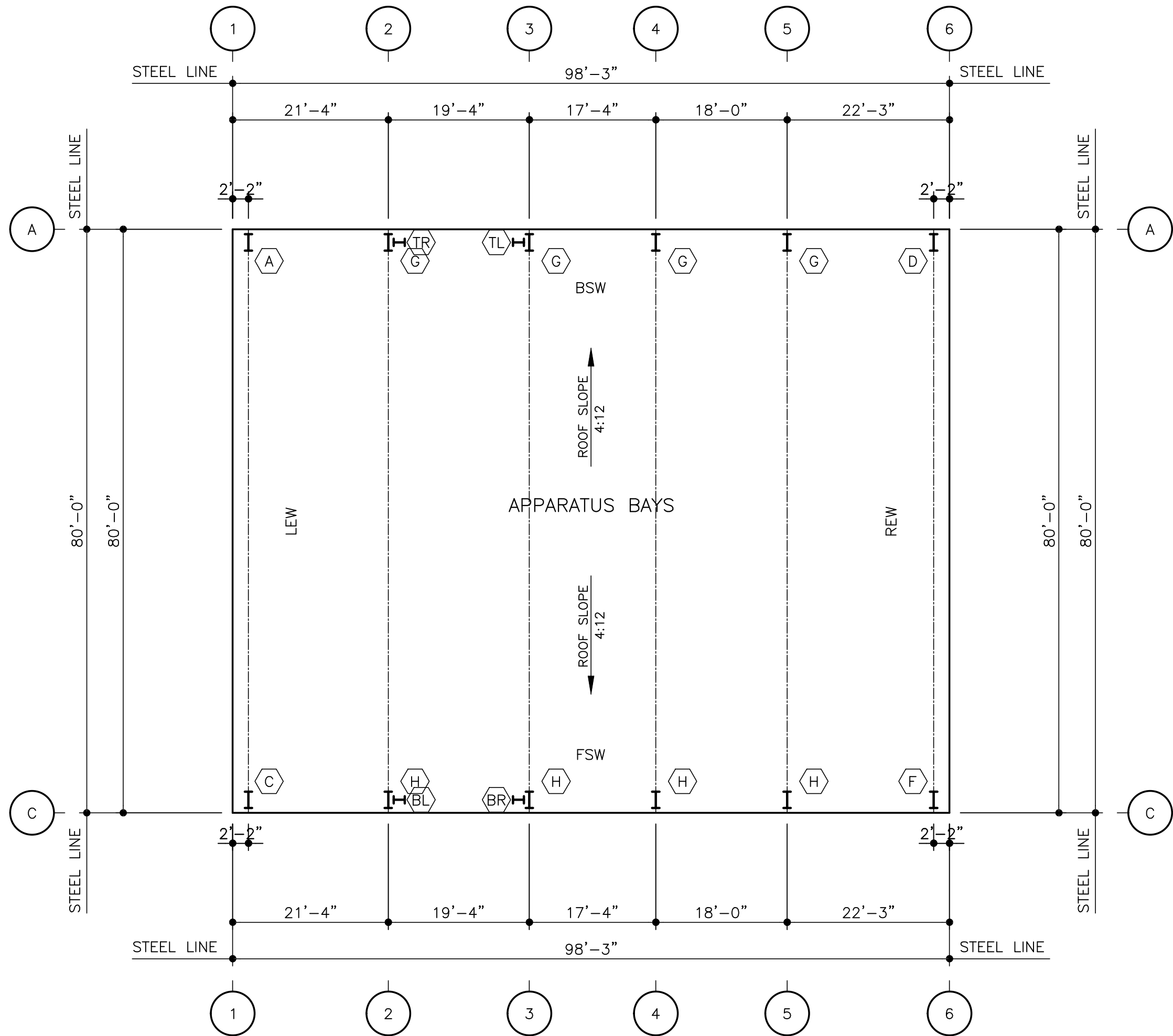
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SHEET NUMBER:
QUOTE NUMBER:
C1

PFVFD





PROJECT NAME:
PRINCE FREDERICK VFD REV. #1
PRINCE FREDERICK, MD
CUSTOMER NAME:
SPRING CONTRACTING GROUP LLC
UPPER MARLBORO, MD

DO NOT USE FOR FINAL CONSTRUCTION
SHEET TITLE:
PRELIMINARY FLOOR PLAN
SHEET NUMBER:
FP1
QUOTE NUMBER:
PFVFD
DATE:
1/30/2019 8:54 AM



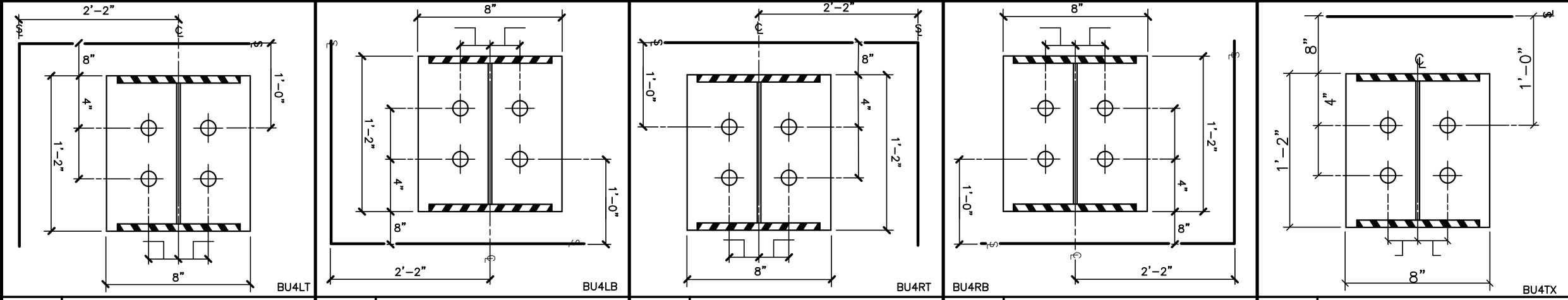
Finish floor elevation assumed to be 100'-0" unless noted otherwise.

 	
PROJECT NAME: PRINCE FREDERICK VFD REV. #1 PRINCE FREDERICK, MD CUSTOMER NAME: SPRING CONTRACTING GROUP LLC UPPER MARLBORO, MD	
DO NOT USE FOR FINAL CONSTRUCTION SHEET TITLE: PRELIMINARY ANCHOR BOLT PLAN SHEET NUMBER: AB1	1/30/2019 8:54 AM QUOTE NUMBER: PFVFD

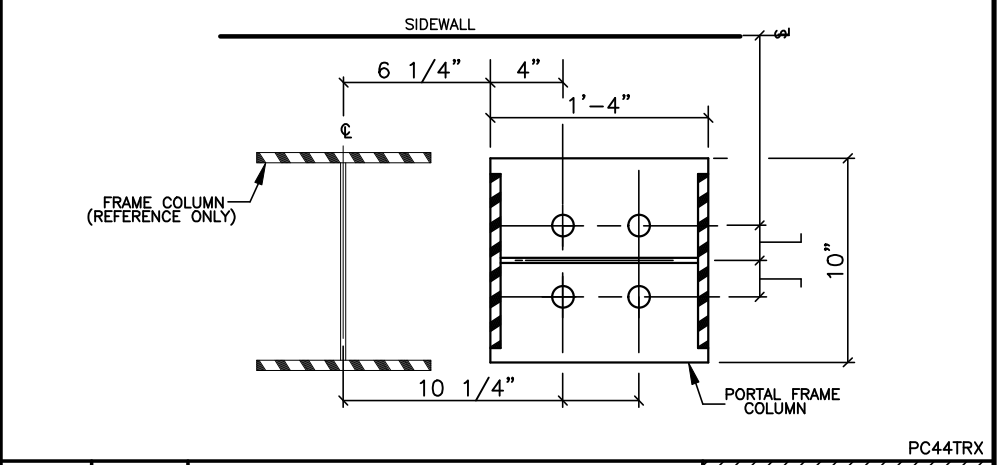
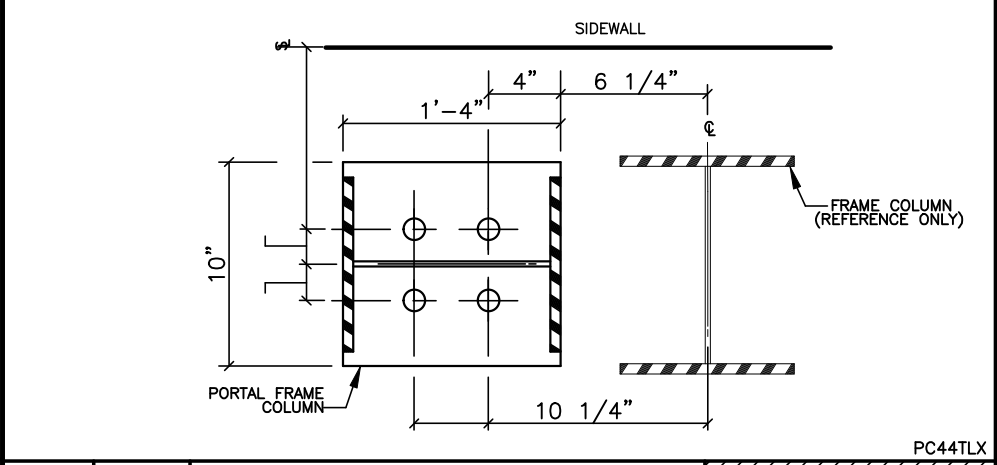
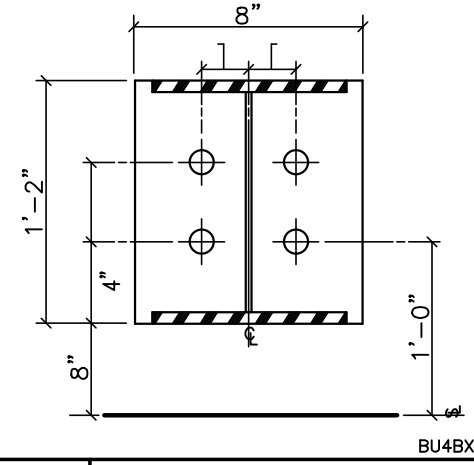
ANCHOR BOLT PLAN

GENERAL NOTES

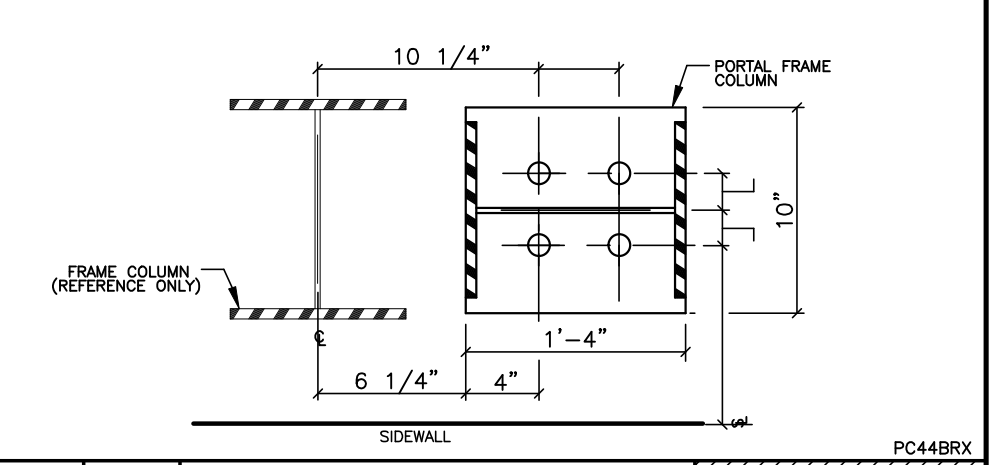
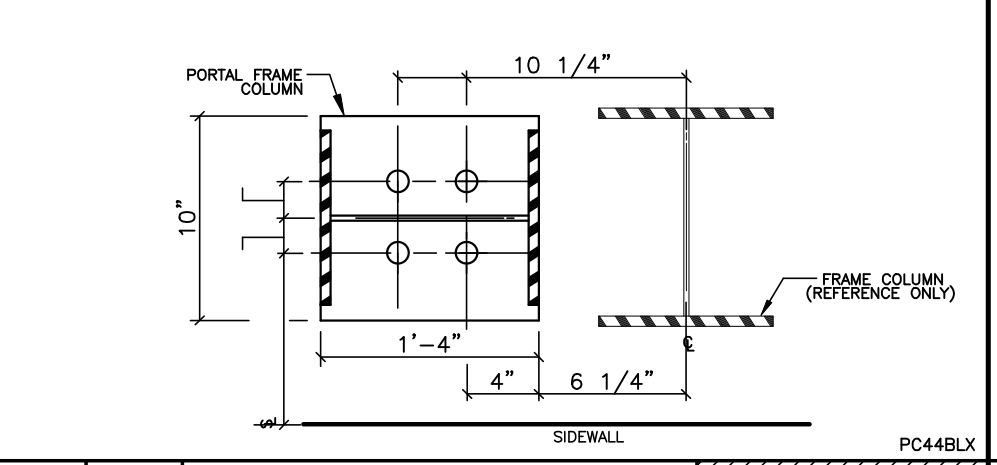
1. THE SPECIFIED ANCHOR ROD DIAMETER ASSUMES F1554 GRADE 36 UNLESS NOTED OTHERWISE. ANCHOR ROD MATERIAL OF EQUAL DIAMETER MEETING OR EXCEEDING THE STRENGTH REQUIREMENTS SET FORTH ON THESE DRAWINGS MAY BE UTILIZED AT THE DISCRETION OF THE FOUNDATION DESIGN ENGINEER. ANCHOR ROD EMBEDMENT LENGTH SHALL BE DETERMINED BY THE FOUNDATION DESIGN ENGINEER.
2. AMERICAN BUILDINGS COMPANY IS NOT RESPONSIBLE FOR PROJECT FOUNDATION DESIGN. THE FOUNDATION DESIGN IS THE RESPONSIBILITY OF A REGISTERED PROFESSIONAL ENGINEER, FAMILIAR WITH LOCAL SITE CONDITIONS.
3. ALL ANCHOR RODS, FLAT WASHERS FOR ANCHOR RODS, EXPANSION BOLTS, AS WELL AS ALL CONCRETE/MASONRY EMBED PLATES ARE NOT BY AMERICAN BUILDINGS COMPANY.
4. THIS DRAWING IS NOT TO SCALE.
5. FINISHED FLOOR ELEVATION = 100'-0" UNLESS NOTED OTHERWISE.
6. "SINGLE" CEE COLUMNS SHALL BE ORIENTED WITH THE "TOES" TOWARD THE LOW EAVE UNLESS NOTED OTHERWISE.



ABNOTE A (4) 1" ϕ ANCHOR BOLTS WITH A 3" PROJECTION C (4) 1" ϕ ANCHOR BOLTS WITH A 3" PROJECTION D (4) 1" ϕ ANCHOR BOLTS WITH A 3" PROJECTION F (4) 1" ϕ ANCHOR BOLTS WITH A 3" PROJECTION G (4) 1" ϕ ANCHOR BOLTS WITH A 3" PROJECTION



H (4) 1" ϕ ANCHOR BOLTS WITH A 3" PROJECTION TL PORTAL COLUMN (4) 1" ϕ ANCHOR BOLTS WITH A 3" PROJECTION TR PORTAL COLUMN (4) 1" ϕ ANCHOR BOLTS WITH A 3" PROJECTION



BR PORTAL COLUMN (4) 1" ϕ ANCHOR BOLTS WITH A 3" PROJECTION BL PORTAL COLUMN (4) 1" ϕ ANCHOR BOLTS WITH A 3" PROJECTION

AMERICAN BUILDINGS COMPANY
A FULBRIGHT COMPANY

Drawing Generated By
eQuote

PROJECT NAME:
PRINCE FREDERICK VFD REV. #1
PRINCE FREDERICK, MD

CUSTOMER NAME:
SPRING CONTRACTING GROUP LLC
UPPER MARLBORO, MD

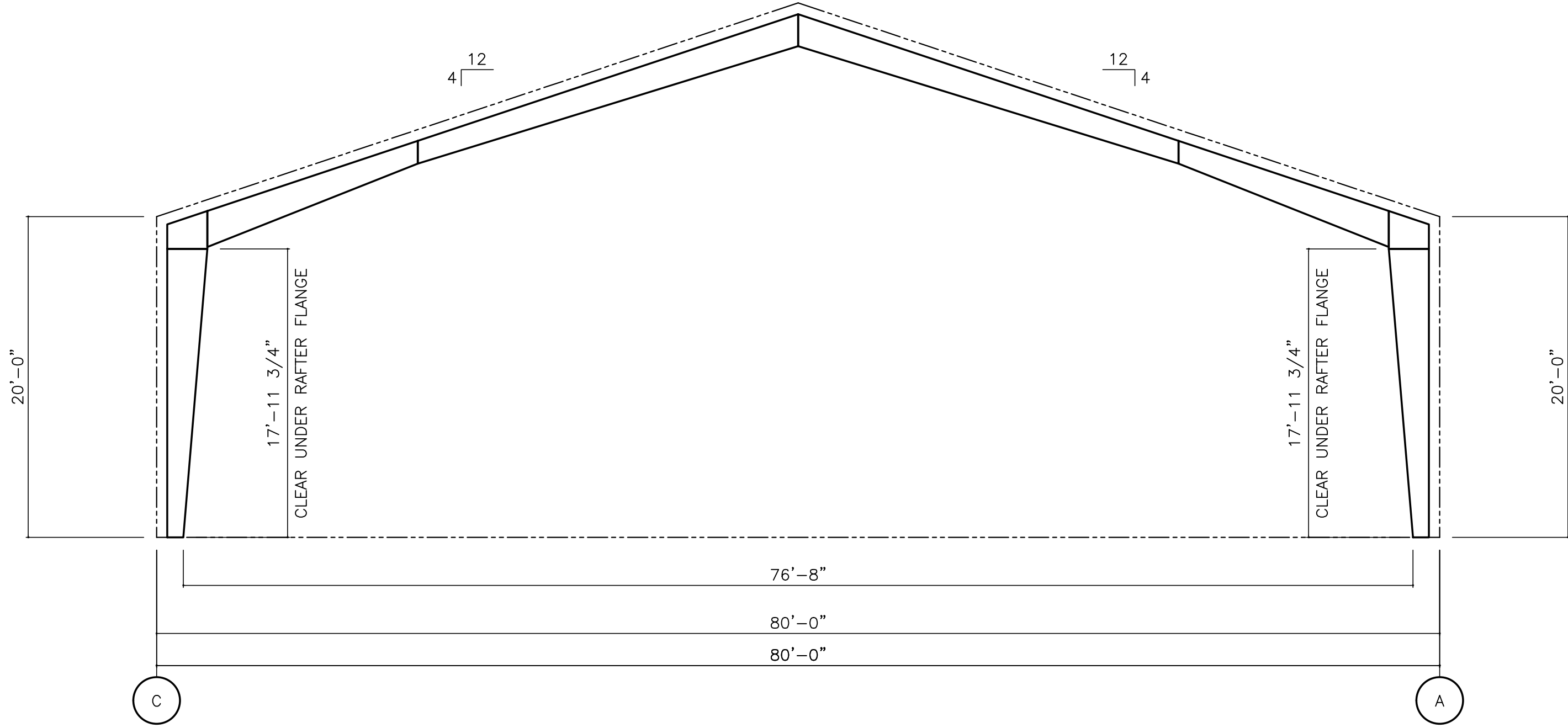
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SHEET TITLE:
PRELIMINARY ANCHOR BOLT DETAILS

SHEET NUMBER:
AB1 OF 1

DATE:
1/30/2019 8:54 AM

QUOTE NUMBER:
PFVFD



FRAME @ LINE(S) 1

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SHEET TITLE: 1/30/2019 8:54 AM

PRELIMINARY FRAME CROSS SECTIONS

SHEET NUMBER: QUOTE NUMBER: PFVFD

FX

PROJECT NAME:

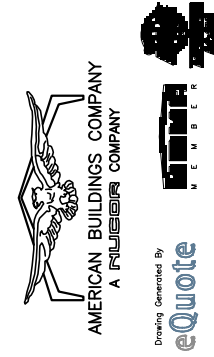
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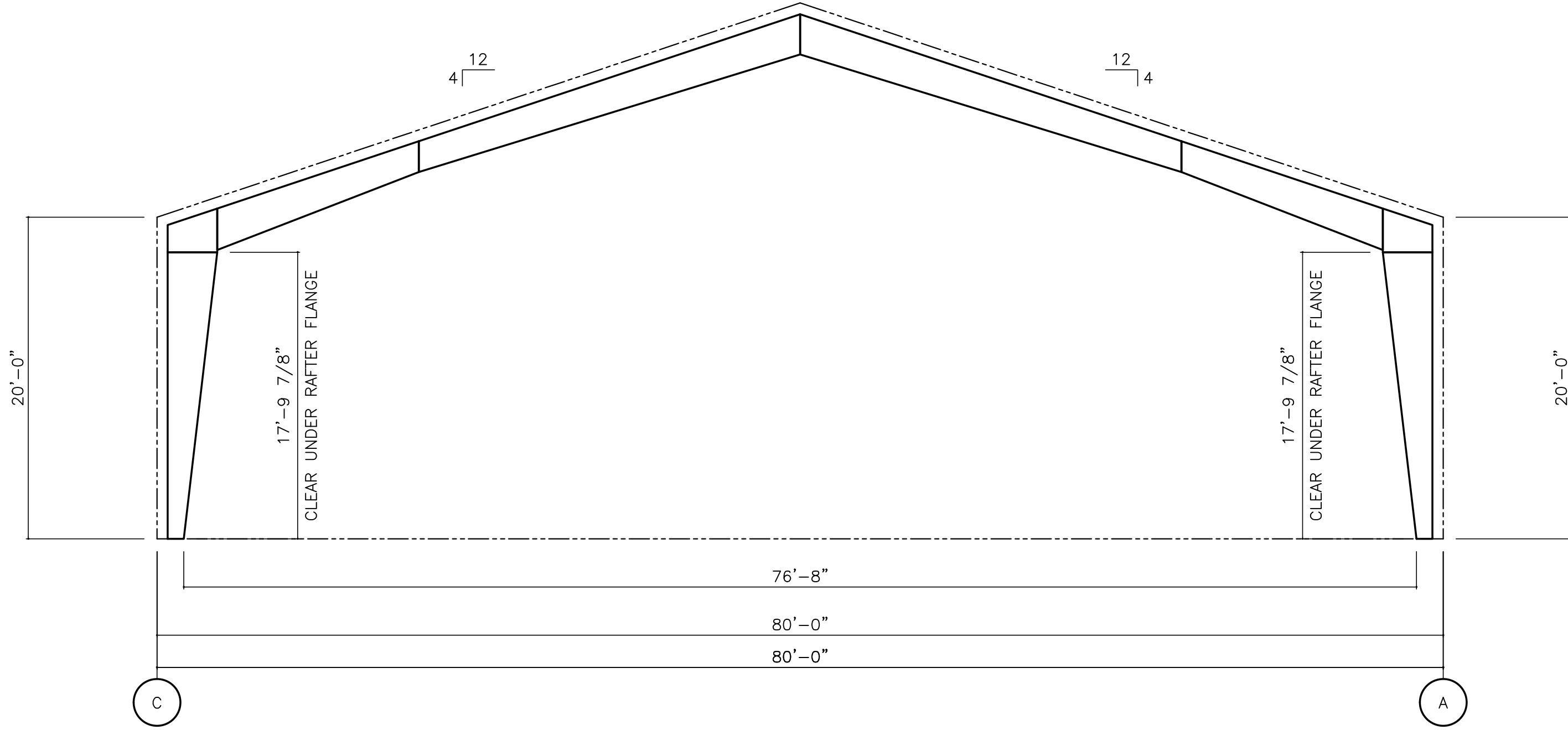
PRINCE FREDERICK, MD

CUSTOMER NAME:

SPRING CONTRACTING GROUP LLC

UPPER MARLBORO, MD





FRAME @ LINE(S) 2

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SHEET NUMBER: QUOTE NUMBER: PFVFD

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PROJECT NAME:

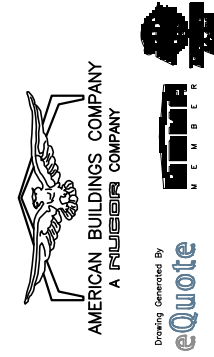
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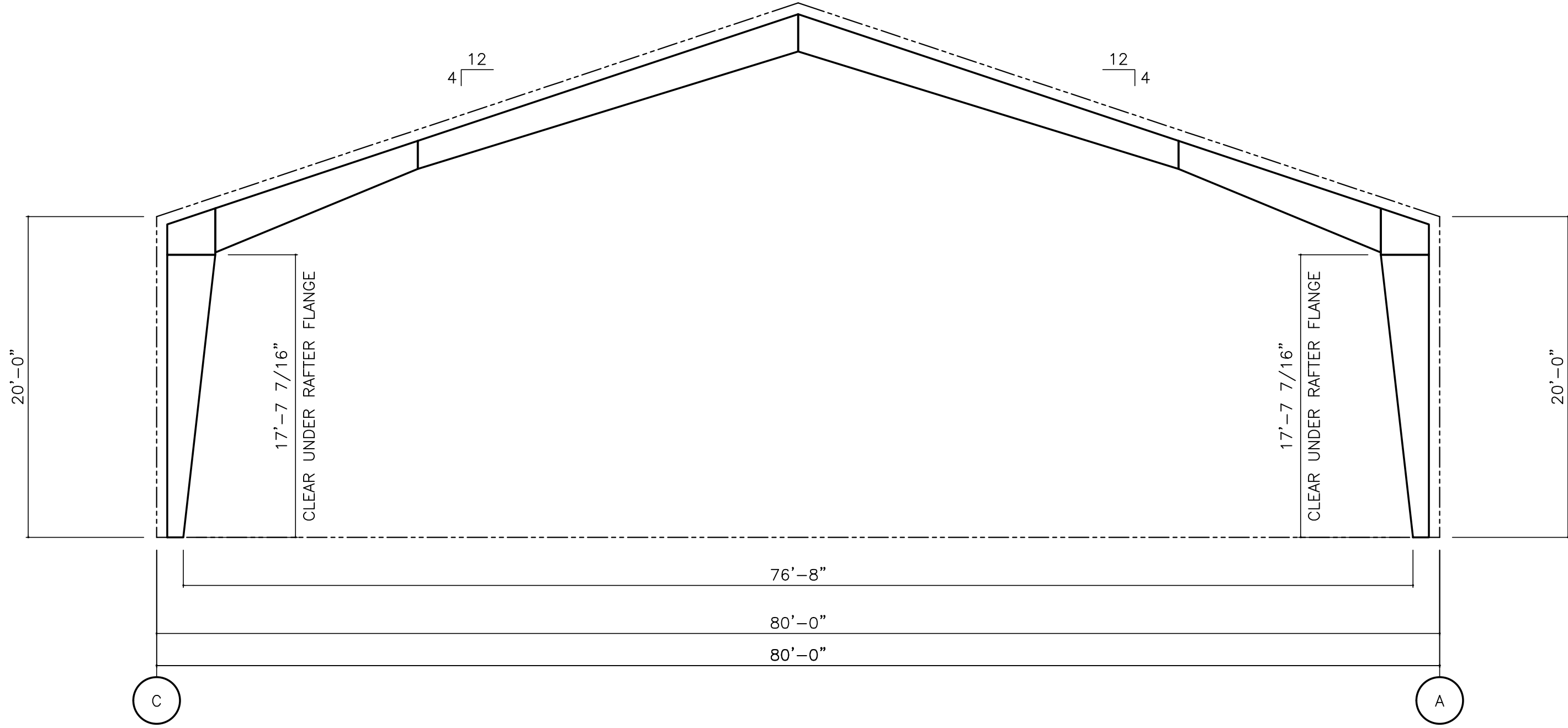
PRINCE FREDERICK, MD

CUSTOMER NAME:

SPRING CONTRACTING GROUP LLC

UPPER MARLBORO, MD





FRAME @ LINE(S) 3

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PRELIMINARY FRAME CROSS SECTIONS

SHEET NUMBER: QUOTE NUMBER: PFVFD

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PROJECT NAME:

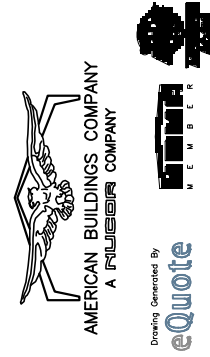
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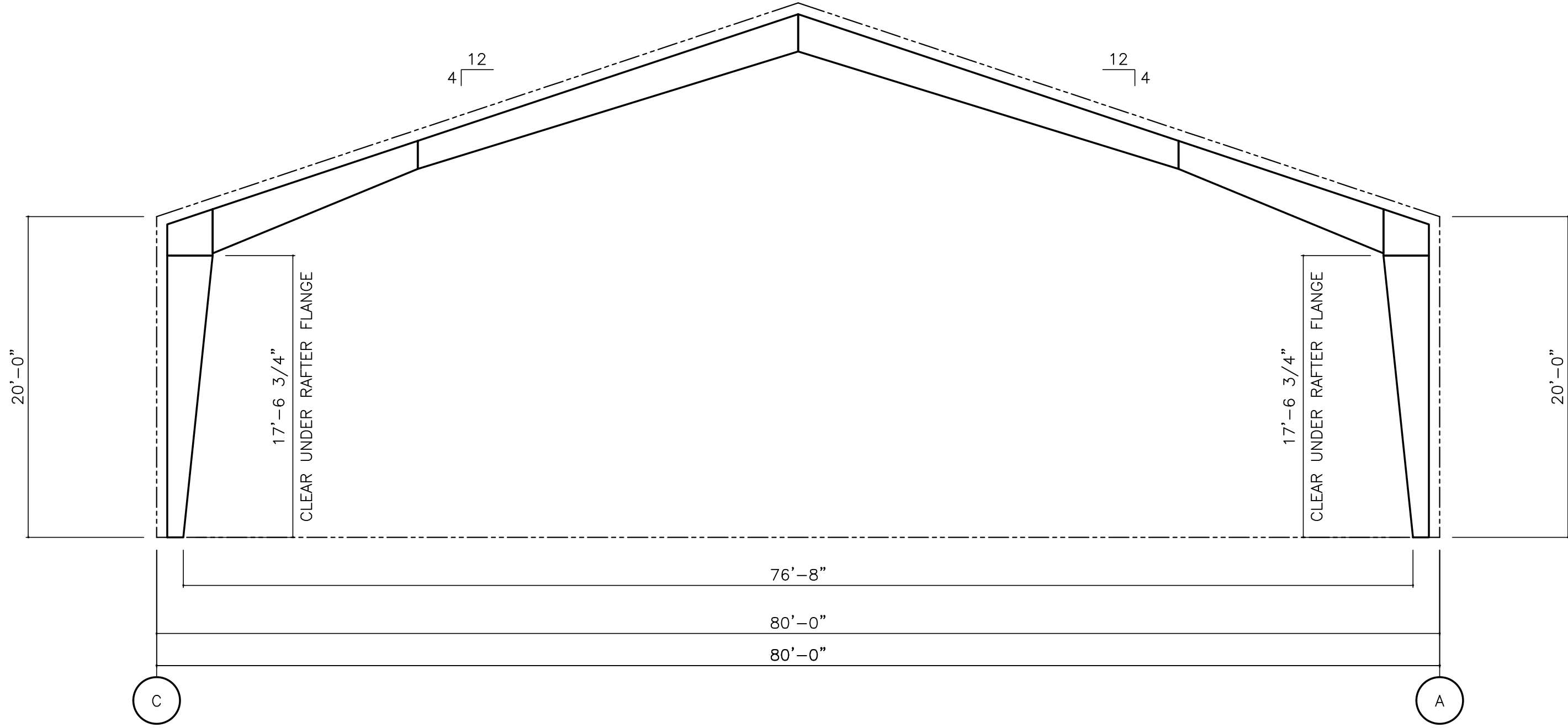
PRINCE FREDERICK, MD

CUSTOMER NAME:

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SHEET NUMBER: QUOTE NUMBER: PFVFD

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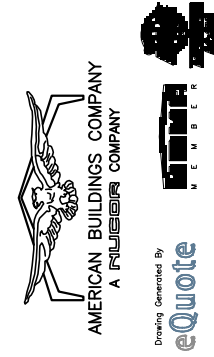
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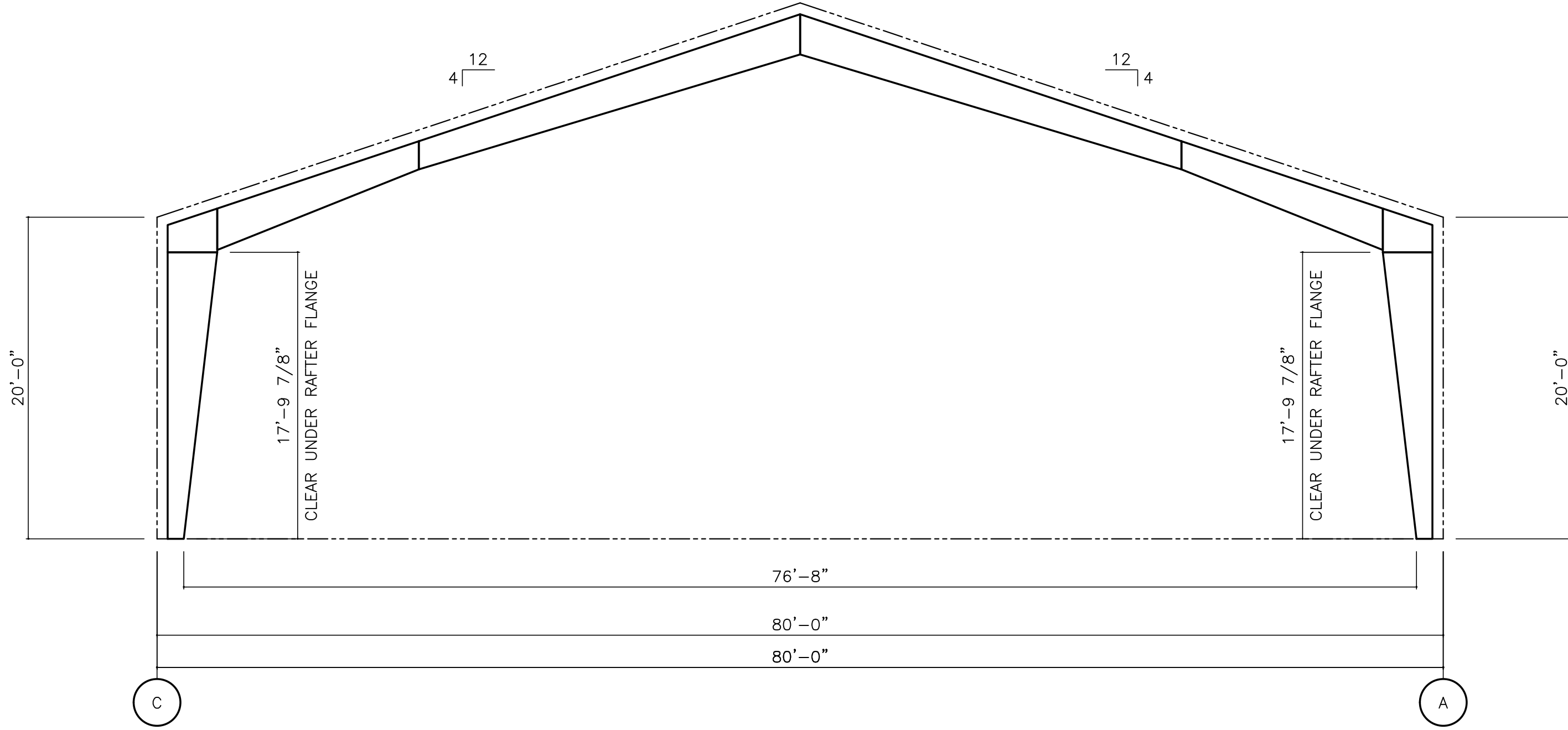
PRINCE FREDERICK, MD

CUSTOMER NAME:

SPRING CONTRACTING GROUP LLC

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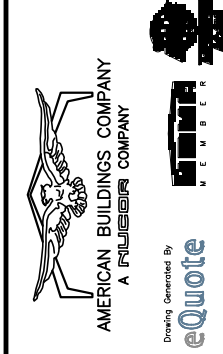
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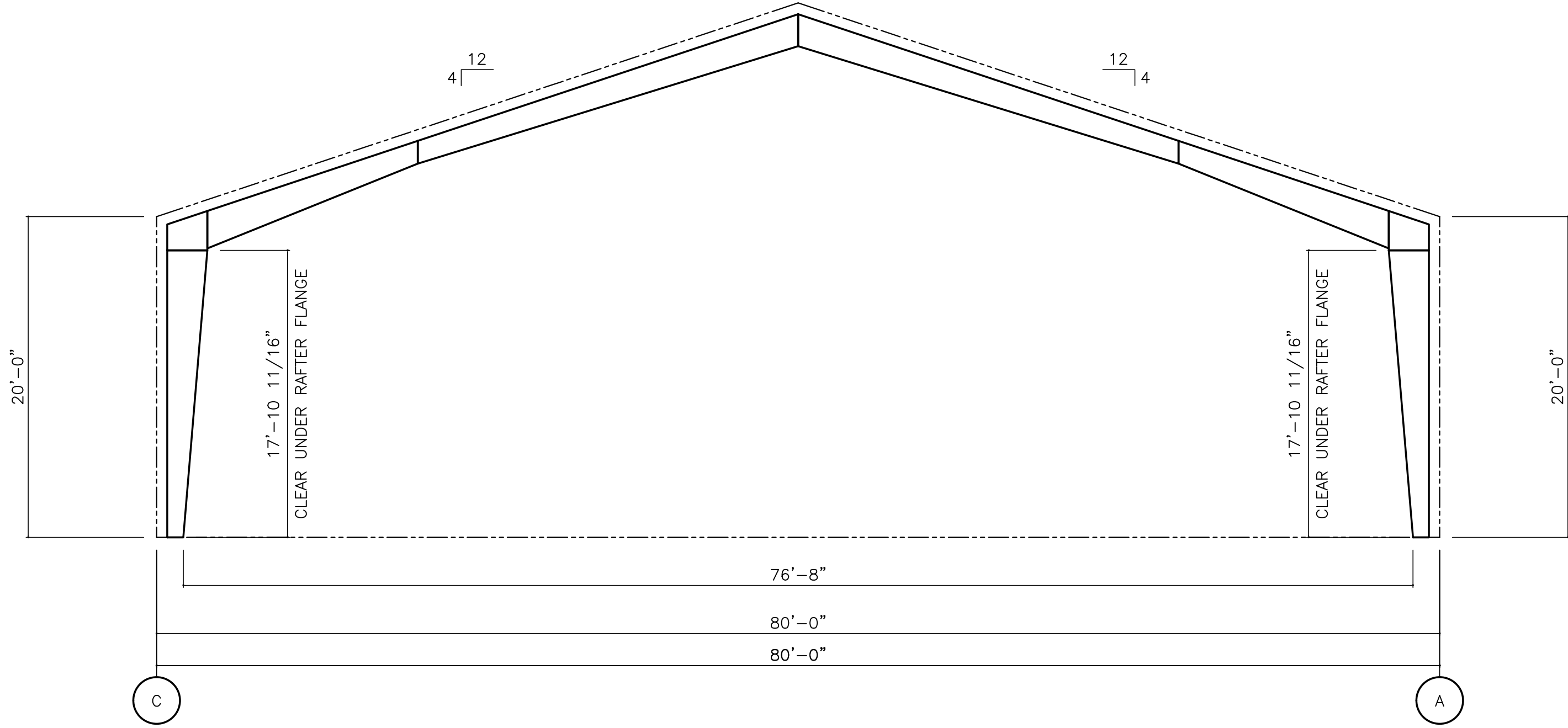
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PRELIMINARY FRAME CROSS SECTIONS

SHEET NUMBER: QUOTE NUMBER: PFVFD

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PROJECT NAME:

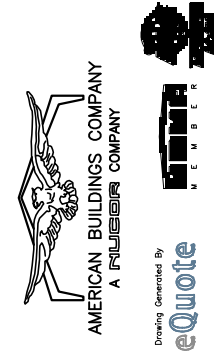
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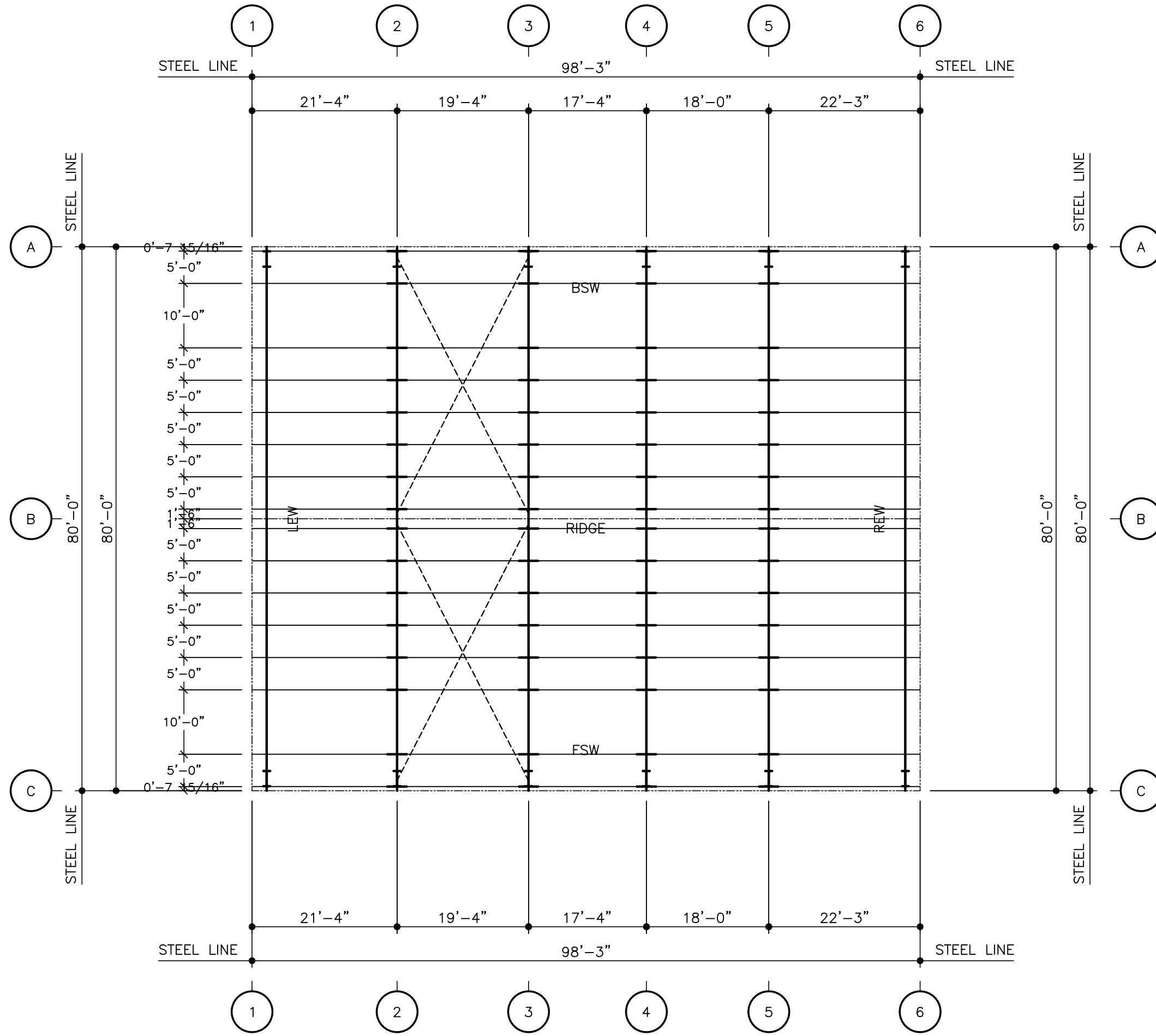
PRINCE FREDERICK, MD

CUSTOMER NAME:

SPRING CONTRACTING GROUP LLC

UPPER MARLBORO, MD





APPARATUS BAYS ROOF FRAMING PLAN

DO NOT USE FOR FINAL CONSTRUCTION

SHEET TITLE: PRELIMINARY ROOF FRAMING PLAN

SHEET NUMBER: RF1 QUOTE NUMBER: PFVFD

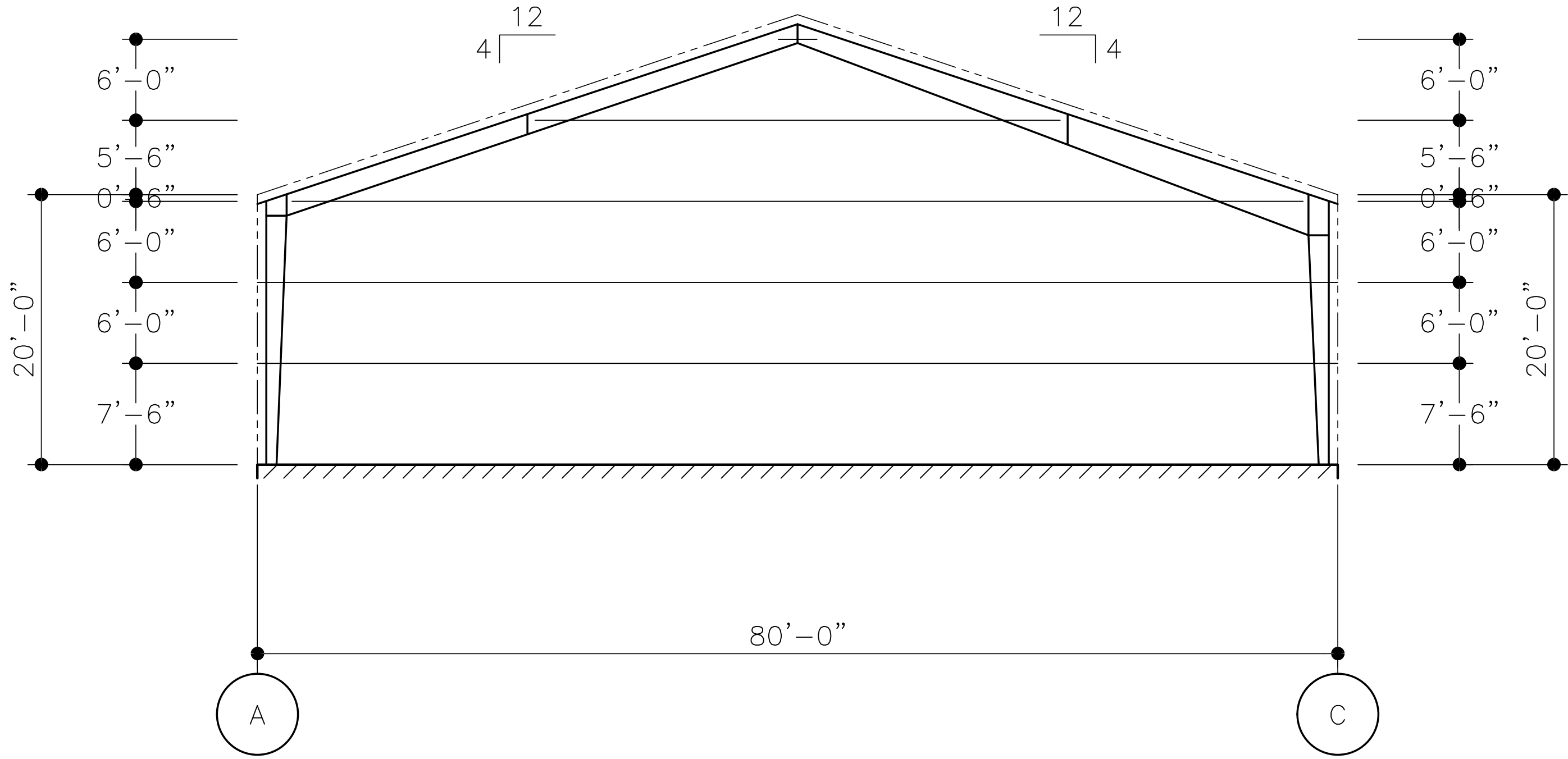
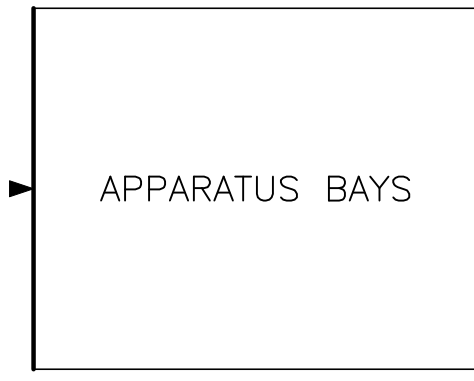
PROJECT NAME: PRINCE FREDERICK VFD REV. #1

PRINCE FREDERICK, MD

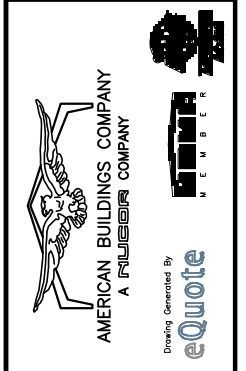
CUSTOMER NAME: SPRING CONTRACTING GROUP LLC
UPPER MARLBORO, MD



KEY PLAN



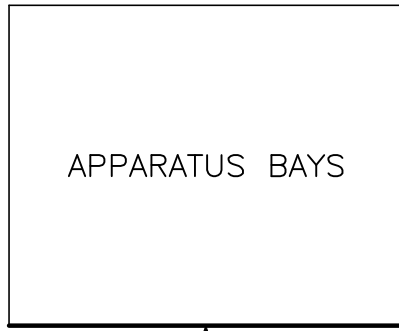
ELEVATION AT LINE 1



PROJECT NAME:
 PRINCE FREDERICK VFD REV. #1
 PRINCE FREDERICK, MD
 CUSTOMER NAME:
 SPRING CONTRACTING GROUP LLC
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DO NOT USE FOR FINAL CONSTRUCTION
 SHEET TITLE:
 PRELIMINARY STRUCTURAL ELEVATIONS
 SHEET NUMBER:
 ST5
 QUOTE NUMBER:
 PFVFD
 DATE:
 1/30/2019 8:54 AM

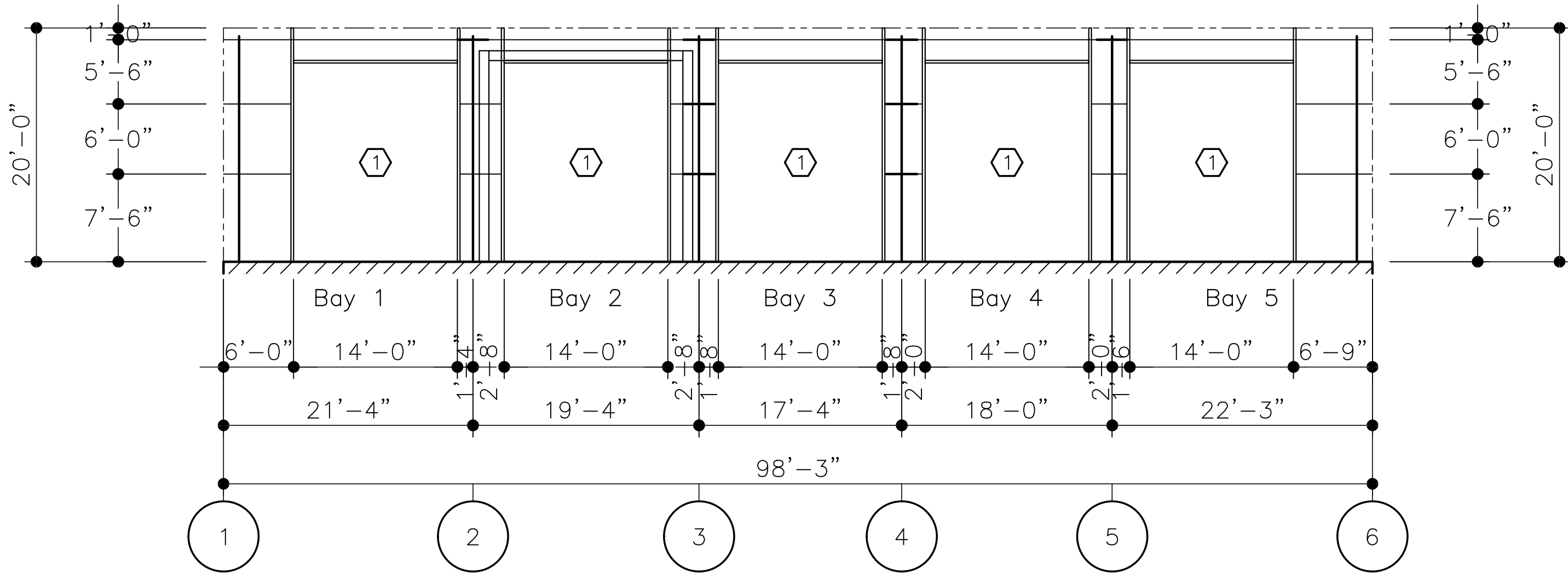
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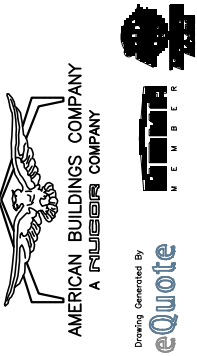
APPARATUS BAYS

FRAMED OPENING SCHEDULE

ID	QTY	WIDTH	HEIGHT	SILL HEIGHT	LOCATED
1	5	14'-0"	17'-0"	0'-0"	FACTORY



ELEVATION AT LINE C



PROJECT NAME:
PRINCE FREDERICK VFD REV. #1
PRINCE FREDERICK, MD

CUSTOMER NAME:
SPRING CONTRACTING GROUP LLC
UPPER MARLBORO, MD

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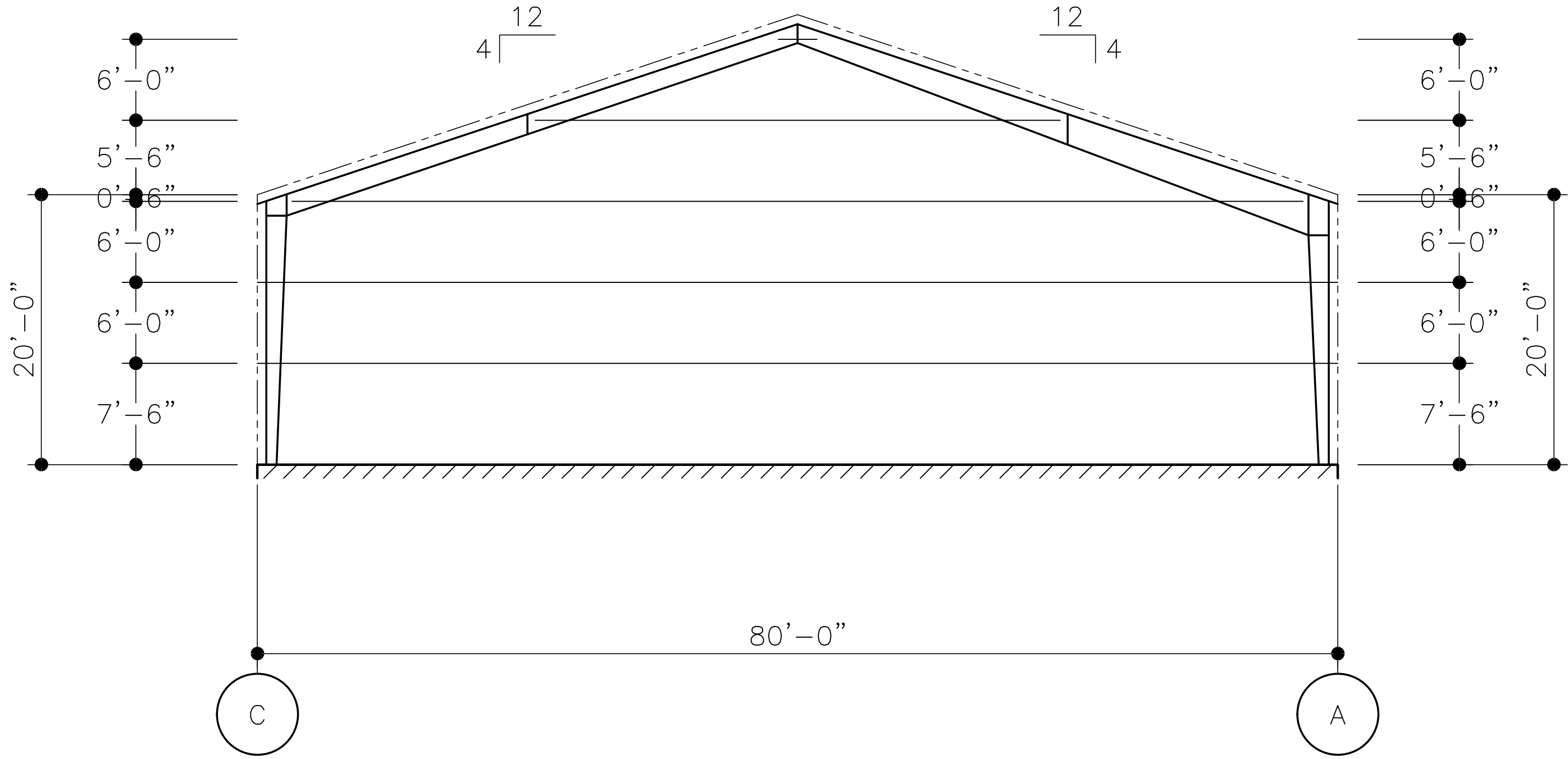
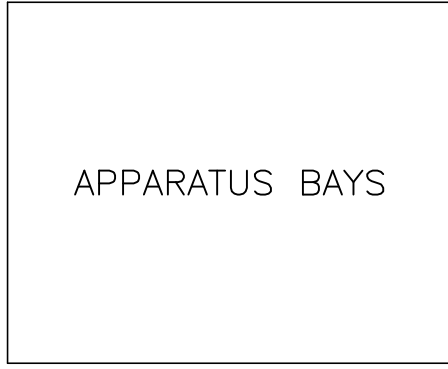
1/30/2019 8:54 AM

PRELIMINARY STRUCTURAL ELEVATIONS

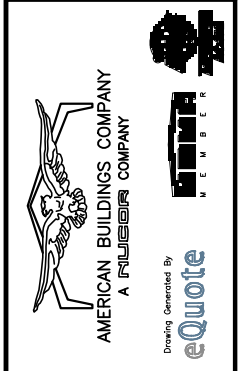
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QUOTE NUMBER: PFVFD

KEY PLAN



ELEVATION AT LINE 6

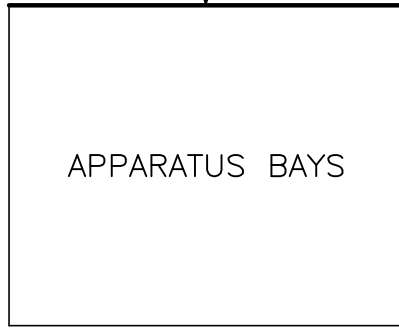


PROJECT NAME:
 PRINCE FREDERICK VFD REV. #1
 PRINCE FREDERICK, MD
 CUSTOMER NAME:
 SPRING CONTRACTING GROUP LLC
 UPPER MARLBORO, MD

DO NOT USE FOR FINAL CONSTRUCTION
 SHEET TITLE:
 PRELIMINARY STRUCTURAL ELEVATIONS
 SHEET NUMBER:
 ST7

1/30/2019 8:55 AM
 QUOTE NUMBER:
 PFVFD

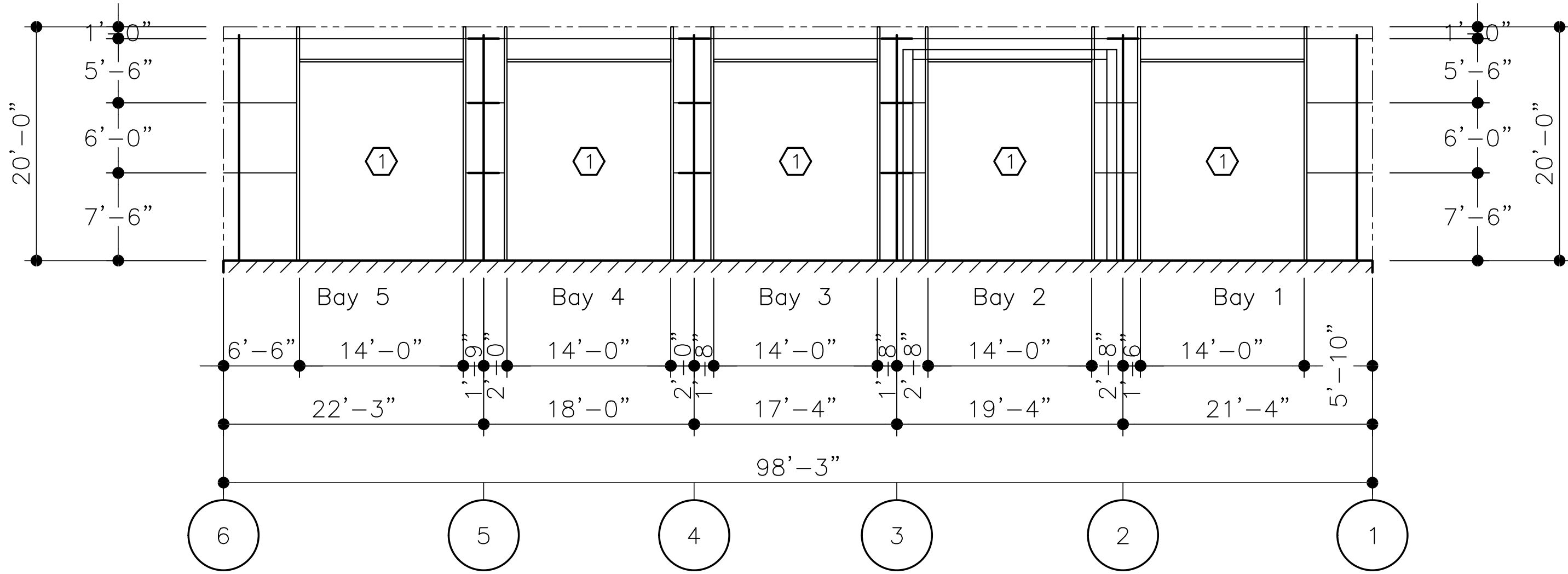
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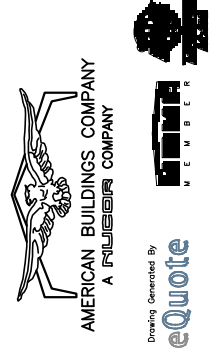
APPARATUS BAYS

FRAMED OPENING SCHEDULE

ID	QTY	WIDTH	HEIGHT	SILL HEIGHT	LOCATED
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ELEVATION AT LINE A



PROJECT NAME:
 PRINCE FREDERICK VFD REV. #1
 PRINCE FREDERICK, MD

CUSTOMER NAME:
 SPRING CONTRACTING GROUP LLC
 UPPER MARLBORO, MD

DO NOT USE FOR FINAL CONSTRUCTION

SHEET TITLE:
 PRELIMINARY STRUCTURAL ELEVATIONS

SHEET NUMBER:
 ST8

QUOTE NUMBER:
 PFVFD

1/30/2019 8:55 AM