

Project Notes

All Non-Production Orders will be progress billed upon release of Permit or Approval drawings. The total amount due upon release of drawings will be \$3103.13. This is not an additional amount to the purchase order and does not represent the total cost of engineering. If a deposit is not collected in this amount or more at order entry, we will invoice upon release of drawings. This amount does NOT pertain to projects purchased for production. The amount shown does not represent cancellation charges.

Metallic has included their standard building specifications for this project. It is the responsibility of the customer to have Metallic products approved by a representative of the end use customer. This project is based upon Metallic's interpretation of the drawings and specifications in our possession at the time of pricing. Any additional plans, specifications, or other information requiring modification to this interpretation may require updated pricing. UNLESS SPECIFICALLY NOTED OTHERWISE HEREIN, Metallic will supply its standard details, dimensions, material sizes and properties, gauges, coatings, finishes and engineering practices.

Drawings used to develop this project include: None Dated XXX  
Specs used to develop this project include: None  
Sketches used to develop this project include: Door SK1 & Hangar Data Bldg 32-34-37 & WellBilt Questionnaire  
Addenda used to develop this project include: None

Any drawings, plans, and/or specifications referenced in the drawings used to develop this project are not incorporated or included unless specifically noted otherwise herein.

1. MBS has created a 116' x 28' opening centered in the end wall to create a 100'x28' opening when the Rolling Hangar doors are in their fully open position.  
> (6) Bottom Rolling Hangar doors are included with Manual Operators by MBS - each door leaf is 19'-4" wide.  
> Doors will operate in a 'One-Way Floating Group' manner - all doors will stack together when fully opened - all to the Left or all to Right.  
>>> See Door SK1 for Closed/Open Orientation  
>>> Top Support and Bottom door rails extend the full length of the each door.  
> Hangar Doors will have Wall Sheeting - Insulation - Trims all by MBS to match other areas of the project.
2. Door Operators will be mounted Inside Door. The Operators will require 208V - 3 Phase Electrical service (by others).  
> An Overhead Conductor bar is also included (from WellBilt) by MBS.  
> Operators will operate with a Manual 'Constant Contact' Pendant stations.
3. Insulation for the building and hangar doors is included by MBS. Roof and Walls = 6" R19, WMP-UV-HD.
4. Roof liner shown herein is for the soffit panel for the hangar door system. Soffit support materials are included by MBS.
5. (1) Walk Door will be located in the Hangar Door Leaf - MBS has included a framed opening with a sill to provide support.  
> The Base of the Hangar door will not be Broken at the Walk Door, the Person will have to step over framing to enter this Walk door.

\*\*\*\* Project will be ordered for PRODUCTION (No Hold) \*\*\*\*  
> The signed Order will be processed and a complete schedule will be developed and communicated with the Buyer. Next steps are Design and creation of Sealed Permit drawings - the Builder will be invoiced \$1,200 for these services (if Bldg 34 has been ordered at the same time) - the \$1,200 amount would be deducted from the remaining Total Contract. Final Drafting will be completed then a Release for Manufacturing would be communicated with the Buyer (prior to cutting steel). With no objections from the Buyer, the job is released for Manufacturing and Shipment.  
>> Should the project be Stopped by the Buyer (prior to the Manufacturing process, the Buyer would be charged the full Design & Drafting fees of \$4,900 - AND - the Project would be open to any additional Steel increases (which would be determined after a new ship date was established). The \$4,900 fee would be deducted from the remaining Total Contract.

EXCLUSIONS

Building Anchor rods, masonry anchors, masonry embedment's, Roof accessories (except as noted herein), vents, walk ways, skylights, Wall accessories such as overhead doors, windows, louvers, Access ladders, stairs, handrails, Unloading, erection, installation, equipment, and any other items not specifically mentioned in the project.

\*\*\*\* BUILDER PREFERENCES when conditions apply \*\*\*\*  
> Framed Opening Jambs will extend above the Header. NO Full bay header conditions (jamb stops below header) unless requested specifically.

Loads				
Project Use Category	Commercial		Jobsite Address	5164 W Military Hwy
Building Code	2015 Virginia Building Code	Uniform Statewide	County	Chesapeake, VA, 23321 City of Chesapeake
<b>Live/Wind</b>				
Live Load	20.000 psf		Wind Category	N/A
Trib. Area Reduction Allowed	Yes		Miles From Coastline	N/A
Wind Exposure	Exposure C		Elevation Above Sea Level	N/A
			Rain Intensity	6.9600 in/hr
<b>Snow</b>				
Ground Snow Load	10.000 psf		Snow Exposure	Fully Exposed
Min Roof Snow Load	0.000 psf		Rain Load	N/A
<b>Seismic</b>				
Spectral Response(Ss)	9.44 %		% of Snow Load for Seismic	Normal
Spectral Response(Sh)	N/A		Seismic Zone	N/A
Spectral Response(S1)	4.84 %		Near Source Factor	N/A
Spectral Response(S2)	N/A		Design Seismic for Schools	N/A
Accelerated Coefficient(Aa)	N/A		Site Class/Soil Type	(D) Stiff Soil
Velocity Coefficient(Av)	N/A			

Sustainability and Energy Efficiency

Sustainability Goal	None
Climate Controlled Building	No
Energy Efficiency Code	N/A
Has Panel Air Infiltration Requirements	No

New Building A - Bldg 32

Label - Name	A - Bldg 32	Frame Type	Symmetrical
Structure	New	Elevation A	Sidewall
Type	Stand Alone		

Loads, Wind Enclosure, Deflections & Sidesway

Building Loads		Importance Factors	
Roof Snow Load By Design	10.000 psf	Snow Is	1.00
Risk Factor	II - Normal	Wind Iw	N/A
Thermal Condition	All Others	Seismic Ie	1.00
Seismic Design Category	B	Designed Snow Exposure	Fully Exposed
Wind Speed	120.00 mph		
10-Year Wind Speed	76.00 mph		

Wind Enclosure		Calculated - By Manufacturer
Enclosure		Yes
Are all Framed Openings enclosed with materials designed to resist building wind loads?		Yes
Are all Open Areas for Other enclosed with materials designed to resist building wind loads?		Obstructed flow
Open Building Condition		

Uniform Collateral Loads	
Ceiling Load	0.000 psf
Ceiling Type	N/A
Brittle Wall/Dryvit	No
Other	3.000 psf

Deflections		
Purlins		Roof Panel
Live	L/150	Code Limit
Snow	L/180	Code Limit
Wind	L/180	Code Limit
Total Gravity	L/120	Code Limit
Total Uplift	N/A	
Live	L/60	Code Limit
Snow	L/60	Code Limit
Wind	L/60	Code Limit
Total Gravity	L/60	Code Limit
Total Uplift	L/60	Code Limit
Live	L/90	Code Limit
Wall Panel	L/60	Code Limit
Endwall Columns	L/120	Code Limit

Sidesway		
Portal Frame		
Serviceability Wind	H/60	Code Limit
Seismic	H/40	Code Limit
Crane	H/100	Code Limit

Frame		
Live	H/60	Code Limit
Snow	H/60	Code Limit
Serviceability Wind	H/60	Code Limit
Total Gravity	H/60	Code Limit
Total Seismic	H/40	Code Limit

\* Note - Code deflection limits are based on the applicable building code, user defined loading and the manufacturer’s interpretation of what the minimum value should be.

\* Note - The material supplied by building manufacturer has been designed with the following minimum deflection criteria. The actual deflection may be less depending upon actual load and member length. The frame sidesway for wind load is based upon a representation of the 10-year Mean Recurrence Interval wind load.

Point Loads

Description	Hangar Door System 1-1a	Load	2,165.00 lbs
Applied To	Primary	Load Location	Suspended - Inside
Rooftop Unit Width	N/A	Bay (Numbering from EWB to EWD)	1
Rooftop Unit Length	N/A	Dist. from Left Frameline to Center of Point Load	N/A
Rooftop Unit Height	N/A	Dist. from SWA to Center of Point Load	36'-0"
Cutting Purlins is Required	No	Beam by Manufacturer	No
Opening Width	N/A	Number of Beams	N/A
Opening Length	N/A		
Description	Hangar Door System 1-1b	Load	2,165.00 lbs
Applied To	Primary	Load Location	Suspended - Inside
Rooftop Unit Width	N/A	Bay (Numbering from EWB to EWD)	1
Rooftop Unit Length	N/A	Dist. from Left Frameline to Center of Point Load	N/A
Rooftop Unit Height	N/A	Dist. from SWA to Center of Point Load	36'-0"
Cutting Purlins is Required	No	Beam by Manufacturer	No
Opening Width	N/A	Number of Beams	N/A
Opening Length	N/A		

New Building A - Bldg 32 Continued...

Point Loads Continued...

Description	Hangar Door System 1-2a	Load	2,165.00 lbs
Applied To	Primary	Load Location	Suspended - Inside
Rooftop Unit Width	N/A	Bay (Numbering from EWB to EWD)	1
Rooftop Unit Length	N/A	Dist. from Left Frameline to Center of Point Load	N/A
Rooftop Unit Height	N/A	Dist. from SWA to Center of Point Load	65'-0"
Cutting Purlins is Required	No	Beam by Manufacturer	No
Opening Width	N/A	Number of Beams	N/A
Opening Length	N/A		
Description	Hangar Door System 1-2b	Load	2,165.00 lbs
Applied To	Primary	Load Location	Suspended - Inside
Rooftop Unit Width	N/A	Bay (Numbering from EWB to EWD)	1
Rooftop Unit Length	N/A	Dist. from Left Frameline to Center of Point Load	N/A
Rooftop Unit Height	N/A	Dist. from SWA to Center of Point Load	65'-0"
Cutting Purlins is Required	No	Beam by Manufacturer	No
Opening Width	N/A	Number of Beams	N/A
Opening Length	N/A		
Description	Hangar Door System 1-3a	Load	2,165.00 lbs
Applied To	Primary	Load Location	Suspended - Inside
Rooftop Unit Width	N/A	Bay (Numbering from EWB to EWD)	1
Rooftop Unit Length	N/A	Dist. from Left Frameline to Center of Point Load	N/A
Rooftop Unit Height	N/A	Dist. from SWA to Center of Point Load	94'-0"
Cutting Purlins is Required	No	Beam by Manufacturer	No
Opening Width	N/A	Number of Beams	N/A
Opening Length	N/A		
Description	Hangar Door System 1-3b	Load	2,165.00 lbs
Applied To	Primary	Load Location	Suspended - Inside
Rooftop Unit Width	N/A	Bay (Numbering from EWB to EWD)	1
Rooftop Unit Length	N/A	Dist. from Left Frameline to Center of Point Load	N/A
Rooftop Unit Height	N/A	Dist. from SWA to Center of Point Load	94'-0"
Cutting Purlins is Required	No	Beam by Manufacturer	No
Opening Width	N/A	Number of Beams	N/A
Opening Length	N/A		
Description	Hangar Door System 2-1a	Load	2,165.00 lbs
Applied To	Primary	Load Location	Suspended - Inside
Rooftop Unit Width	N/A	Bay (Numbering from EWB to EWD)	2
Rooftop Unit Length	N/A	Dist. from Left Frameline to Center of Point Load	N/A
Rooftop Unit Height	N/A	Dist. from SWA to Center of Point Load	36'-0"
Cutting Purlins is Required	No	Beam by Manufacturer	No
Opening Width	N/A	Number of Beams	N/A
Opening Length	N/A		
Description	Hangar Door System 2-1b	Load	2,165.00 lbs
Applied To	Primary	Load Location	Suspended - Inside
Rooftop Unit Width	N/A	Bay (Numbering from EWB to EWD)	2
Rooftop Unit Length	N/A	Dist. from Left Frameline to Center of Point Load	N/A
Rooftop Unit Height	N/A	Dist. from SWA to Center of Point Load	36'-0"
Cutting Purlins is Required	No	Beam by Manufacturer	No
Opening Width	N/A	Number of Beams	N/A
Opening Length	N/A		
Description	Hangar Door System 2-2a	Load	2,165.00 lbs
Applied To	Primary	Load Location	Suspended - Inside
Rooftop Unit Width	N/A	Bay (Numbering from EWB to EWD)	2
Rooftop Unit Length	N/A	Dist. from Left Frameline to Center of Point Load	N/A
Rooftop Unit Height	N/A	Dist. from SWA to Center of Point Load	65'-0"
Cutting Purlins is Required	No	Beam by Manufacturer	No
Opening Width	N/A	Number of Beams	N/A
Opening Length	N/A		
Description	Hangar Door System 2-2b	Load	2,165.00 lbs
Applied To	Primary	Load Location	Suspended - Inside
Rooftop Unit Width	N/A	Bay (Numbering from EWB to EWD)	2
Rooftop Unit Length	N/A	Dist. from Left Frameline to Center of Point Load	N/A
Rooftop Unit Height	N/A	Dist. from SWA to Center of Point Load	65'-0"
Cutting Purlins is Required	No	Beam by Manufacturer	No
Opening Width	N/A	Number of Beams	N/A
Opening Length	N/A		

New Building A - Bldg 32 Continued...

Point Loads Continued...

Description	Hangar Door System 2-3a	Load	2,165.00 lbs
Applied To	Primary	Load Location	Suspended - Inside
Rooftop Unit Width	N/A	Bay (Numbering from EWB to EWD)	2
Rooftop Unit Length	N/A	Dist. from Left Frameline to Center of Point Load	N/A
Rooftop Unit Height	N/A	Dist. from SWA to Center of Point Load	94'-0"
Cutting Purlins is Required	No	Beam by Manufacturer	No
Opening Width	N/A	Number of Beams	N/A
Opening Length	N/A		
Description	Hangar Door System 2-3b	Load	2,165.00 lbs
Applied To	Primary	Load Location	Suspended - Inside
Rooftop Unit Width	N/A	Bay (Numbering from EWB to EWD)	2
Rooftop Unit Length	N/A	Dist. from Left Frameline to Center of Point Load	N/A
Rooftop Unit Height	N/A	Dist. from SWA to Center of Point Load	94'-0"
Cutting Purlins is Required	No	Beam by Manufacturer	No
Opening Width	N/A	Number of Beams	N/A
Opening Length	N/A		

Load Applied to Primary Framing

1. Curbs are not included, please contact Estimating for pricing assistance.
2. If curbs are not supplied by Manufacturer, sub-framing between main supports is also not provided by Manufacturer.

Topography - Escarpments

Does the building lie on the upper half of a hill, ridge, or escarpment?	No
Is this hill, ridge or escarpment unobstructed in any direction by another similar topographic feature within a distance of 100 times its height or 2 miles (3.21 km), whichever is less?	No
Is the hill or escarpment at least twice as tall as any other topographic features within 2 miles (3.21 km)?	No
Does the average slope on the top half of the hill, ridge, or escarpment equal or exceed 20% (11.3")?	No
Is the height of the hill, ridge or escarpment equal to or greater than 15 feet (4.9 m) for Exposure C or D, or 60ft (19.8 m) for Exposure B?	No

Topographic Effects

Hill Shape	N/A
Lh, Horizontal distance of crest to half height of hill or escarpment	N/A
H, Height of Hill or Escarpment	N/A
X, Distance From the Crest to the Building Site	N/A

New Building A - Bldg 32 Continued...

Geometry, Sidewalls & Endwalls

Width	130'-0"	Length	92'-0"
<u>SWA</u>		<u>SWC</u>	
Eave Height	32'-0"	Eave Height	32'-0"
Roof Slope	1.000000 / 12	Roof Slope	1.000000 / 12
Distance To Ridge	65'-0"	Distance To Ridge	65'-0"
Girts	8.0" - Bypass	Girts	8.0" - Bypass
<u>EWB</u>		<u>EWD</u>	
Type	Non-Expandable Frame	Type	Bearing Frame
Girts	8.0" - Flush	Girts	8.0" - Flush
User Specified Setback	System Standard 1'-2"	User Specified Setback	System Standard 0'-4"
Designed Setback	1'-2"	Designed Setback	0'-4"
Purlins	8.0" Z	Pregalvanized Secondary	No
LBP Min Depth	N/A	Hot-Dipped Primary	No
LBP Max Depth	N/A	Seal Welds	N/A
Steel Shop Coat	Gray		
Bolt Finish	Plated		

\* Note - Dark Gray shop coat and/or Pre-Galv Secondary may extend your delivery.

\* Note - Structural paint is intended as a primer. The primers supplied by the Manufacturer are not intended to provide the uniformity of appearance of a finish coat nor to provide extended protection if subjected to prolonged exposure. If immediate erection of steel is not possible, it must be protected from exposure to atmospheric and/or environmental conditions that may be detrimental to primer performance. These conditions would include, but not be limited to, prolonged exposure to ultra-violet light resulting in possible fading and or spotting or standing water resulting in spotting, peeling or localized surface oxidation. Gray Primer in particular will show rust spots/streaks due to imperfections in the application process and the properties associated with Gray Primers. Primer touch-up due to transit abrasions and/or scratching during loading and unloading and erection is to be expected. Rusting or abrasions on structural members is not subject to customer rejection or claim for touch up. Additional guidelines can be found in the MBMA Commentary, the AISC Code of Standard Practice and the Manufacturer's Standard Specifications.

Bracing

Roof	Rod	(EWB to EWD) @ Bays	2, 4
LBP Bracing Location	N/A		
SWA	1 Tier Rod	(EWB to EWD) @ Bays	2, 5
SWC	1 Tier Rod	(EWD to EWB) @ Bays	4, 2
EWB	None	(SWC to SWA) @ Bays	N/A
EWD	1 Tier Rod	(SWA to SWC) @ Bays	2, 6
Purlins	Knock-In Bridging Angles Allowed		
SWA Girts	Not Allowed		
SWC Girts	Not Allowed		
EWB Girts	Not Allowed		
EWD Girts	Not Allowed		
Rafter Flange Braces	Knife Plate		
Override Rafter Flange Brace rqmts	No		
Column Flange Braces	Knife Plate		
Override Column Flange Brace rqmts	No		

<u>Portal Frames</u>			
<u>SWA</u>		<u>SWC</u>	
Rod Tiers Above	N/A	Rod Tiers Above	N/A
Max Column Web Depth	N/A	Max Column Web Depth	N/A
Max Rafter Web Depth	N/A	Max Rafter Web Depth	N/A
<u>EWB</u>		<u>EWD</u>	
Rod Tiers Above	N/A	Rod Tiers Above	N/A
Max Column Web Depth	N/A	Max Column Web Depth	N/A
Max Rafter Web Depth	N/A	Max Rafter Web Depth	N/A

\* Note - It may be possible to reduce bracing costs by locating the bracing in a wider bay. If the braced bay is not as wide as it is tall, consider moving the bracing to a bigger bay if possible.

Spacing		
SWA Bay Spacing	(EWB-EWD)	10'-9", 21'-3", 3@20'-0"
Roof Bay Spacing	(EWB-EWD)	10'-9", 21'-3", 3@20'-0"
SWC Bay Spacing	(EWD-EWB)	3@20'-0", 21'-3", 10'-9"
SWA Soldier Column Recesses	(EWB-EWD)	N/A
SWC Soldier Column Recesses	(EWD-EWB)	N/A
EWB Column Spacing	(SWC-SWA)	6'-8", 19'-8", 4@19'-4", 19'-8", 6'-8"
EWD Column Spacing	(SWA-SWC)	15'-0", 5@20'-0", 15'-0"
EWB Column Recesses	(SWC-SWA)	0.0", 0.0", -336.0", -336.0", -336.0", -336.0", -336.0", 0.0", 0.0"
EWD Column Recesses	(SWA-SWC)	0.0", 0.0", 0.0", 0.0", 0.0", 0.0", 0.0", 0.0"

\* Note - Negative column recess raises the base of the column above the finished floor.

SWA Girt Spacings	(Base to Eave)	System Standard	3'-6", 4'-0", 6'-0", 6'-0", 6'-0",
SWC Girt Spacings	(Base to Eave)	System Standard	3'-6", 4'-0", 6'-0", 6'-0", 6'-0",
EWB Girt Spacings	(Base to Peak)	System Standard	3'-6", 4'-0", 6'-0", 6'-0", 6'-0", 5'-5",
EWD Girt Spacings	(Base to Peak)	System Standard	7'-6", 4'-10", 6'-0", 6'-0", 6'-0", 5'-0 1/2",
Purlin Spacing		System Standard	N/A
Designed Purlin Spacings on the Slope - SWA		(Eave to Peak)	2@4'-4 9/16", 11 @5'-0 3/16"
Designed Purlin Spacings on the Slope - SWC		(Eave to Peak)	2@4'-4 9/16", 11 @5'-0 3/16"

\* Note - Purlin and girt depths, DESIGNED purlin locations, and SYSTEM SPECIFIED girt locations are supplied for reference only, and may be changed at Manufacturer's discretion without notice unless specifically stated otherwise in the "Notes" section of this document.

Frame Groups			
<u>Group Number</u>	1 (Clearspan)		
Frame Lines	1 to 5		
Hardened Washers for High Strength Bolts	No		
<u>SWA</u>		<u>SWC</u>	
Column	Tapered Allowed	Column	Tapered Allowed
Unbraced To Elevation	N/A	Unbraced To Elevation	N/A
Max Column Web Depth	60.0"	Max Column Web Depth	60.0"
Max Rafter Web Depth	60.0"	Max Rafter Web Depth	60.0"
Exterior Column Elevation	At Finished Floor	Exterior Column Elevation	At Finished Floor

Roof Panel (12,035 sqft)			
Type	Double-Lok	<u>Options</u>	
Thickness	N/A	SS Clip Type	High Sliding
Width	24"		(Up to 6" Blkt. Insulation)
Gauge	24	Thermal Blocks	3/8" Thick
Color	S300 Tundra	FM-4471 Roof Panel Anchorage	No
Valspar Code	432R1145	UL90	No
Yield (KSI)	50	Eave Icing	No
R Value	N/A	Wide Tape	No
Grooves of Factory Applied Sealant	N/A	Additional Hand Crimper	No
Finish Warranty	Yes		
<u>Fastener Information</u>		<u>Weathertightness Warranty</u>	
Type	Self-Drilling	Type	Standard I
Head Finish	Long-Life	Term	20 Year
Length	Standard		
		<u>Snow Retention System</u>	
		Provide Snow Retention System	No

\* Note - Insulation not included unless specified on the Insulation page of this document.

\*\*\*IMPORTANT\*\*\* The roof panel ordered requires a seaming tool for proper roof installation. Seaming tools must be leased from the panel manufacturer only. Failure to seam the panel properly or the use of a seamer other than one from the panel manufacturer will void the manufacturer's roof weathertightness warranties, if purchased, and can void all applicable roof panel finish warranties. It is the responsibility of the purchaser to contact the panel manufacturer to arrange rental of the seaming tools. The purchaser will be required to complete a rental agreement. Rental agreements should be submitted a minimum of 10 business days prior to the requested date of seaming tool delivery. All seamer tool rentals are invoiced separate of the material invoices. A deposit may be required prior to shipment of seaming tools. Contact your sales representative for further information.

Wall Panel (11,738 sqft)

Type	PBR	<u>Options</u>	
Thickness	N/A	Reverse Rolled	No
Width	36"	Washers	N/A
Gauge	26	Concrete Notch	No
Color	S300 Snow White	Sealed Wall	No
Valspar Code	431R539	Eave Closure	No
Yield (KSI)	80	Rake Closure	Yes
Finish Warranty	Yes	Outside Metal EW Closures	No
R Value	N/A	Foam Tape (If applicable)	No
Grooves of Factory Applied Sealant	N/A		
<u>Fastener Information</u>			
Type	Self-Drilling		
Head Finish	Long-Life		
Length	2"		
Vendor	N/A		

Base Condition

Framing	Galvanized Angle	Closure	Base Inside Closure
Trim	F406 Vertical Lip Base Trim		

Trim

<u>SWA Options</u>		<u>SWC Options</u>	
Trim Type	Gutters and Downspouts	Trim Type	Gutters and Downspouts
Gutter Type	Southern	Gutter Type	Southern
Gutter Type by Design	Southern	Gutter Type by Design	Southern
Additional Gutter Supports	No	Additional Gutter Supports	No
<u>EWB Options</u>		<u>EWD Options</u>	
Trim Type	Rake Trim	Trim Type	Rake Trim
Gutter Type	N/A	Gutter Type	N/A
Gutter Type by Design	N/A	Gutter Type by Design	N/A
Additional Gutter Supports	N/A	Additional Gutter Supports	N/A
<u>Color Selections</u>			
Eave	N/A	Trim Profile	Edgecraft
Rake	S300 Harbor Blue	Downspout Type	Roll Form
Rake Valspar Code	436R1141	All Trim Yield (KSI)	50
Corner	S300 Harbor Blue	Trim for roof/wall system with Sig 300 color is 24 gauge.	
Corner Valspar Code	436R1141	* Note - Gutters selected may differ from the Gutters designed.	
Base	S300 Harbor Blue		
Base Valspar Code	436R1141		
Gutters	S300 Harbor Blue		
Gutters Valspar Code	436R1141		
Downspouts	S300 Snow White		
Downspouts Valspar Code	431R539		
Roof to Roof	N/A		
Roof to Wall	N/A		



New Building A - Bldg 32 Continued...

Accessories

Downspouts

Elevation	SWA	Elbow	Yes
Bay	N/A	Trim	S300 Snow White
Quantity	4	Trim Valspar Code	431R539
Height	32'-0"	Distance From Left Steelline	0'-0"
		Distance From Left Column	0'-0"
Elevation	SWC	Elbow	Yes
Bay	N/A	Trim	S300 Snow White
Quantity	4	Trim Valspar Code	431R539
Height	32'-0"	Distance From Left Steelline	0'-0"
		Distance From Left Column	0'-0"

Walk Doors

Elevation	<div>HANGAR DOOR LEAF</div>	Distance From Left Steelline	<del>69'-1 1/2"</del>
Bay	<del>4</del>	Distance From Floor	<del>0'-0"</del>
Quantity	1	Distance From Left Column	<del>9'-1 1/2"</del>
Size	3070	Trim	S300 Harbor Blue
Style	M - Solid	Trim Valspar Code	436R1141
Type	Pre-Assembled	Lockset	Panic
Primer Color	White	Swing	Left Hand Out
In Liner	No	Glazing	N/A
ADA Door Compliancy	No	Options	Closer
Wind Rated	No		Latch Guard
			Insulated
		Kick Plate	No
Elevation	EWD	Distance From Left Steelline	63'-6"
Bay	4	Distance From Floor	0'-0"
Quantity	1	Distance From Left Column	8'-6"
Size	3070	Trim	S300 Harbor Blue
Style	M - Solid	Trim Valspar Code	436R1141
Type	Pre-Assembled	Lockset	Panic
Primer Color	White	Swing	Left Hand Out
In Liner	No	Glazing	N/A
ADA Door Compliancy	No	Options	Closer
Wind Rated	No		Latch Guard
			Insulated
		Kick Plate	No

All Framed Openings

Elevation	A	Vertical Lift/Door Jamb	No
Bay	3	Distance From Left Steelline	38'-10"
Quantity	1	Distance From Left Column	6'-10"
Width	6'-4"	Distance From Floor	0'-0"
Height	7'-2"	Trim	S300 Harbor Blue
Clip Attachment	Welded	Trim Valspar Code	436R1141
		Require 3.5" Flanges on Jambs	No
		Options	Do Not Cut Panels/Girts
Elevation	A	Vertical Lift/Door Jamb	No
Bay	4	Distance From Left Steelline	56'-7"
Quantity	1	Distance From Left Column	4'-7"
Width	14'-0"	Distance From Floor	0'-0"
Height	16'-0"	Trim	S300 Harbor Blue
Clip Attachment	Welded	Trim Valspar Code	436R1141
		Require 3.5" Flanges on Jambs	No
		Options	Full Cover Trim
Elevation	B	Vertical Lift/Door Jamb	No
Bay	<del>6</del>	Distance From Left Steelline	<del>42'-4"</del>
Quantity	1	Distance From Left Column	<del>1'-0"</del>
Width	4'-4"	Distance From Floor	1'-0"
Height	7'-2"	Trim	S300 Harbor Blue
Clip Attachment	Welded	Trim Valspar Code	436R1141
		Require 3.5" Flanges on Jambs	No
		Options	Four Sided (with Sill) Do Not Cut Panels/Girts

\*\* OPENING USED FOR THE WALKDOOR IN THE HANGAR DOOR LEAF \*\*

New Building A - Bldg 32 Continued...

Accessories Continued...

Liners

Elevation	SWC	Ridge Valspar Code	N/A
Start Bay	5	Rafter Tie Valspar Code	N/A
Length	10'-9"	Eave to Wall Valspar Code	N/A
Height	Full Height	Distance From Left Steelline	81'-3"
Panel Type	PBR	Distance From Left Column	0'-0"
Panel Color	S300 Snow White	Distance From Floor	N/A
Panel Color Valspar Code	431R539	Cap Trim	N/A
Panel Gauge	26	Cap Trim Valspar Code	N/A
Reverse Roll	No	Purlin Trim	S300 Snow White
Base Type	Galvanized Angle	Purlin Trim Valspar Code	431R539
Square Footage	384 sqft	Inside Corner Trim	S300 Snow White
Fastener Length	1-1/4"	Inside Corner Valspar Code	431R539
Fastener Head Finish	Long-Life	Column Tie Trim	S300 Snow White
		Column Tie Trim Valspar Code	431R539

Elevation	SWA	Ridge Valspar Code	N/A
Start Bay	1	Rafter Tie Valspar Code	N/A
Length	10'-9"	Eave to Wall Valspar Code	N/A
Height	Full Height	Distance From Left Steelline	0'-0"
Panel Type	PBR	Distance From Left Column	0'-0"
Panel Color	S300 Snow White	Distance From Floor	N/A
Panel Color Valspar Code	431R539	Cap Trim	N/A
Panel Gauge	26	Cap Trim Valspar Code	N/A
Reverse Roll	No	Purlin Trim	S300 Snow White
Base Type	Galvanized Angle	Purlin Trim Valspar Code	431R539
Square Footage	384 sqft	Inside Corner Trim	S300 Snow White
Fastener Length	1-1/4"	Inside Corner Valspar Code	431R539
Fastener Head Finish	Long-Life	Column Tie Trim	S300 Snow White
		Column Tie Trim Valspar Code	431R539

Elevation	Soffit @ Hangar Doors		
Panel Type	PBR	Trim	
Panel Color	S300 Snow White	Type	Color
Panel Color Valspar Code	431R539	Ridge	S300 Snow White
Panel Gauge	26	Rafter Tie	S300 Snow White
Reverse Roll	No	Eave to Wall	S300 Snow White
Covers			Gauge
SWA to SWC (Transverse)	Specific Area	Ridge Valspar Code	431R539
EWB to EWD (Longitudinal)	0'-0" to 130'-0"	Rafter Tie Valspar Code	431R539
Square Footage	1,565 sqft	Eave to Wall Valspar Code	431R539
Fastener Length	1-1/4"		
Fastener Head Finish	Long-Life		

Elevation	EWB	Ridge Valspar Code	N/A
Start Bay	8	Rafter Tie Valspar Code	N/A
Length	6'-8"	Eave to Wall Valspar Code	N/A
Height	Full Height	Distance From Left Steelline	123'-4"
Panel Type	PBR	Distance From Left Column	0'-0"
Panel Color	S300 Snow White	Distance From Floor	N/A
Panel Color Valspar Code	431R539	Cap Trim	N/A
Panel Gauge	26	Cap Trim Valspar Code	N/A
Reverse Roll	No	Purlin Trim	S300 Snow White
Base Type	Galvanized Angle	Purlin Trim Valspar Code	431R539
Square Footage	312 sqft	Inside Corner Trim	S300 Snow White
Fastener Length	1-1/4"	Inside Corner Valspar Code	431R539
Fastener Head Finish	Long-Life	Column Tie Trim	S300 Snow White
		Column Tie Trim Valspar Code	431R539

New Building A - Bldg 32 Continued...

Accessories Continued...

Elevation	<b>EWB</b>	Ridge Valspar Code	<b>N/A</b>
Start Bay	<b>1</b>	Rafter Tie Valspar Code	<b>N/A</b>
Length	<b>6'-8"</b>	Eave to Wall Valspar Code	<b>N/A</b>
Height	<b>Full Height</b>	Distance From Left Steelline	<b>0'-0"</b>
Panel Type	<b>PBR</b>	Distance From Left Column	<b>0'-0"</b>
Panel Color	<b>S300 Snow White</b>	Distance From Floor	<b>N/A</b>
Panel Color Valspar Code	<b>431R539</b>	Cap Trim	<b>N/A</b>
Panel Gauge	<b>26</b>	Cap Trim Valspar Code	<b>N/A</b>
Reverse Roll	<b>No</b>	Purlin Trim	<b>S300 Snow White</b>
Base Type	<b>Galvanized Angle</b>	Purlin Trim Valspar Code	<b>431R539</b>
Square Footage	<b>312 sqft</b>	Inside Corner Trim	<b>S300 Snow White</b>
Fastener Length	<b>1-1/4"</b>	Inside Corner Valspar Code	<b>431R539</b>
Fastener Head Finish	<b>Long-Life</b>	Column Tie Trim	<b>S300 Snow White</b>
		Column Tie Trim Valspar Code	<b>431R539</b>

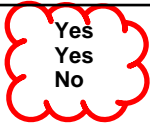
\* Note - The standard top termination of full height liner panels will be at the bottom flange of the eave strut.

Open Areas

Type	<b>Partial Height</b>	Support Beam Included	<b>No</b>	<u>Support Beam</u>
Elevation	<b>EWB</b>	Use Flange Bracing	<b>N/A</b>	Not by Metallic
Start Bay	<b>2</b>	Distance From Left Steelline	<b>7'-0"</b>	
Width	<b>116'-0"</b>	Distance From Left Column	<b>0'-4"</b>	
Height	<b>28'-0"</b>	Shear Wall	<b>No</b>	
Open For	<b>Other</b>	Column Bracing	<b>N/A</b>	
Material Thickness	<b>0'-10"</b>	Base Type	<b>Cee with BFL201</b>	
Material Weight	<b>24.000 psf</b>	Include Jamb Flash	<b>Yes</b>	
Distance to Face of Material	<b>0'-0"</b>	Flash Color	<b>S300 Harbor Blue</b>	
Distance to Support Beam	<b>0'-0"</b>	Flash Valspar Code	<b>436R1141</b>	
Connection Spacing	<b>0'-0"</b>	Open for Wind	<b>0.00 %</b>	
Sheeted in Future	<b>N/A</b>	Liner Panel To Remain	<b>No Liner Found</b>	
		Insulation To Remain	<b>No</b>	

Insulation

Building Has Insulation  
Insulation By Metallic  
Provide COMcheck with Order Documents?



Insulation

Facing Requested	<b>WMP-50</b>	<u>Insulate</u>	
Facing by Design	<b>N/A</b>	<b>SWA</b>	<b>No</b>
Tab	<b>1 @ 6"</b>	<b>SWC</b>	<b>No</b>
Thickness	<b>6.00"</b>	<b>EWB</b>	<b>No</b>
Roof Insulation	<b>13,272 sqft</b>	<b>EWD</b>	<b>No</b>
Starter Rolls	<b>5'-0"</b>	<b>Roof</b>	<b>Yes</b>
Running Rolls	<b>6'-0"</b>	<b>Partition</b>	<b>No</b>
Roll Length	<b>N/A</b>		
Sealed Tape Tabs	<b>1</b>		
Facing Requested	<b>WMP-50</b>	<u>Insulate</u>	
Facing by Design	<b>N/A</b>	<b>SWA</b>	<b>Yes</b>
Tab	<b>1 @ 6"</b>	<b>SWC</b>	<b>Yes</b>
Thickness	<b>6.00"</b>	<b>EWB</b>	<b>Yes</b>
Wall Insulation	<b>11,956 sqft</b>	<b>EWD</b>	<b>Yes</b>
Starter Rolls	<b>5'-0"</b>	<b>Roof</b>	<b>No</b>
Running Rolls	<b>6'-0"</b>	<b>Partition</b>	<b>No</b>
Roll Length	<b>N/A</b>		
Sealed Tape Tabs	<b>1</b>		

Partitions

Partition	1	<u>Distance From</u>	
Type	Transverse	EWB	9'-7"
Length	7'-0"	SWA	0'-0"
Height	N/A		
Full Height	Yes	<u>Column Spacing</u>	
Panel Type	PBR	7'-0"	
Panel Gauge	26		
Girt Type	Flush	Square Footage	293 sqft
Girt Spacing	System Standard	Base Conditions	Galvanized Angle
Panel Finish	S300 Snow White	Sheeted Side	Facing EWB
Panel Finish Valspar Code	431R539	Exterior Wall	Yes
Corner Trim	S300 Snow White	Framing by Others	No
Corner Trim Valspar Code	431R539		
Purlin Trim	S300 Snow White		
Purlin Trim Valspar Code	431R539		
Fastener Length	1-1/4"		
Fastener Head Finish	Long-Life		
Partition	2	<u>Distance From</u>	
Type	Transverse	EWB	9'-7"
Length	7'-0"	SWA	123'-0"
Height	N/A		
Full Height	Yes	<u>Column Spacing</u>	
Panel Type	PBR	7'-0"	
Panel Gauge	26		
Girt Type	Flush	Square Footage	291 sqft
Girt Spacing	System Standard	Base Conditions	Galvanized Angle
Panel Finish	S300 Snow White	Sheeted Side	Facing EWB
Panel Finish Valspar Code	431R539	Exterior Wall	Yes
Corner Trim	S300 Snow White	Framing by Others	No
Corner Trim Valspar Code	431R539		
Purlin Trim	S300 Snow White		
Purlin Trim Valspar Code	431R539		
Fastener Length	1-1/4"		
Fastener Head Finish	Long-Life		

Total Square Footage 584 sqft

\* Note - Insulation is available for partitions in the insulation input section.

New Building A - Bldg 32 Continued...

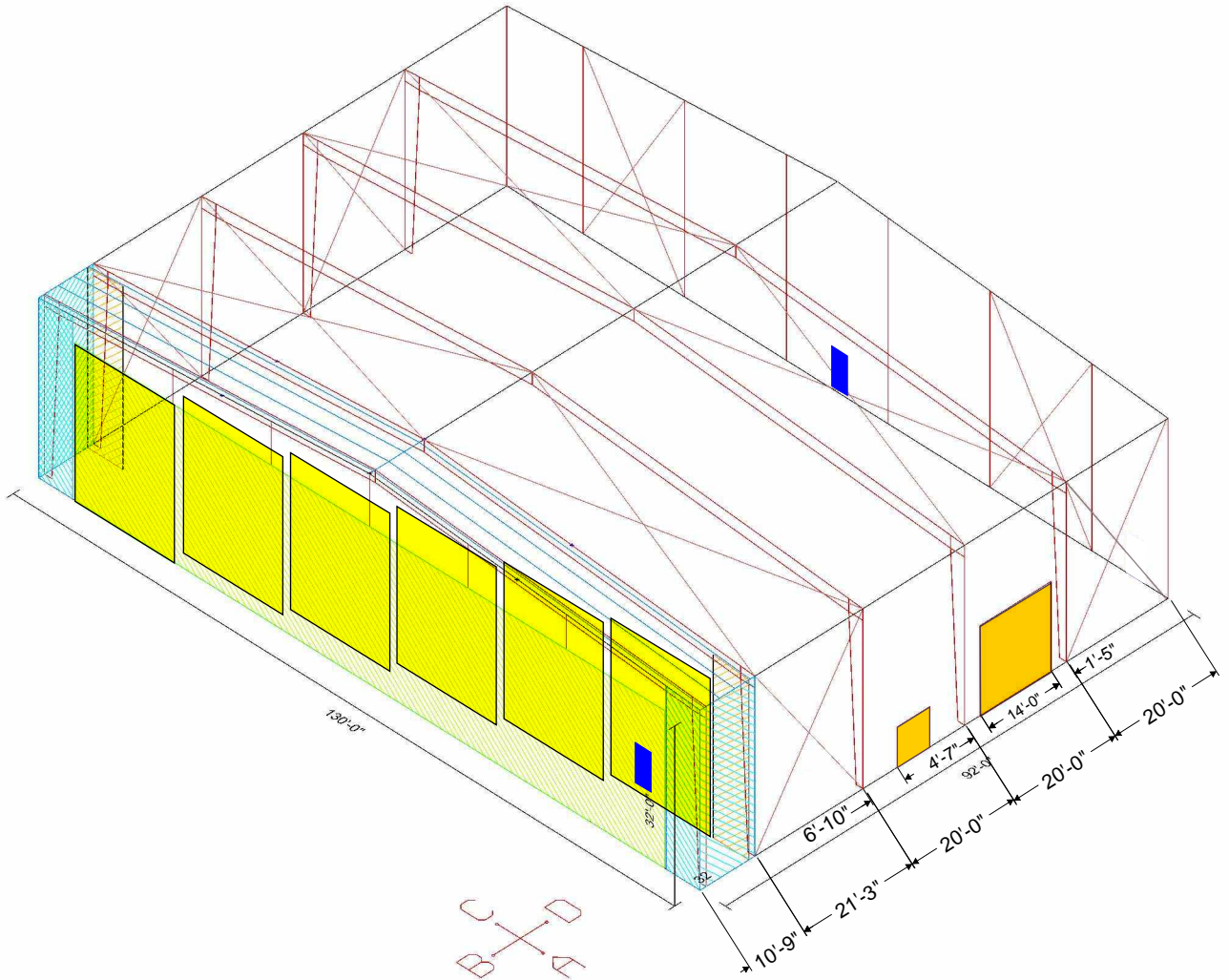
Miscellaneous Adds

List		Weight Total	Price Total
Description	ms - 171051-008 - 32		
Quantity	1.00		
By Metallic	Yes		
Quote #	Q-171051-0080-32, DJG		
Add to Freight	Yes		
Estimator's Initials	DJG		
Expires On	4/30/2021		
Total List Adds (\$)			

Net		Weight Total	Price Total
Description	ms - 171051-008 - 32		
Quantity	1.00		
By Metallic	Yes		
Quote #	Q-171051-0080-32, DJG		
Add to Freight	No		
Estimator's Initials	DJG		
Expires On	4/30/2021		
Total List Adds (\$)			

# HANGAR

## 32



Not To Scale

**\*\*Walk Doors are Field Located in the bay shown \*\***