PROP. 12'X12'
DUMPSTER PAD
W/ENCLOSURE

PROP. 20'X20'
STONE BED
FOR SEPTIC

PROP. BIT.
PARKING LOT

3 ACER RUBRUM
2 1/2" CAL RED MAPLE

LIMIT OF WORK

6 HERMEROCALLIS VAR.
1 GAL. STELLA D'ORO DAYLILY

SAWCUT & REMOVE EX.
PAVEMENT (TYP.)

REMOVE EX. GUARD RAIL
APPROX. 95'

2 ACER RUBRUM
2 1/2" CAL RED MAPLE

PROP. SEWER
PUMP STATION

PROP. SEPTIC
TANK (1,000 GAL.)

PROP. HAND RAMP
SLOPE 12:1
W/GUARDRAIL

6 TAXUS CUSP. "NIGRA"
2.5' DIA. SPREADING YEW

PROP. LOAM &
SEED AREAS

PROP. BLDG
9,600 SF (120'x80')
F.F.E. 62.5

PROP. LOAM &
SEED AREAS SEE
GRADING PLAN

7 PINUS STROBUS
5'-6" HT WHITE PINE

PROP. WALL PACK
LIGHTING (TYP.)

TRUCK BAY

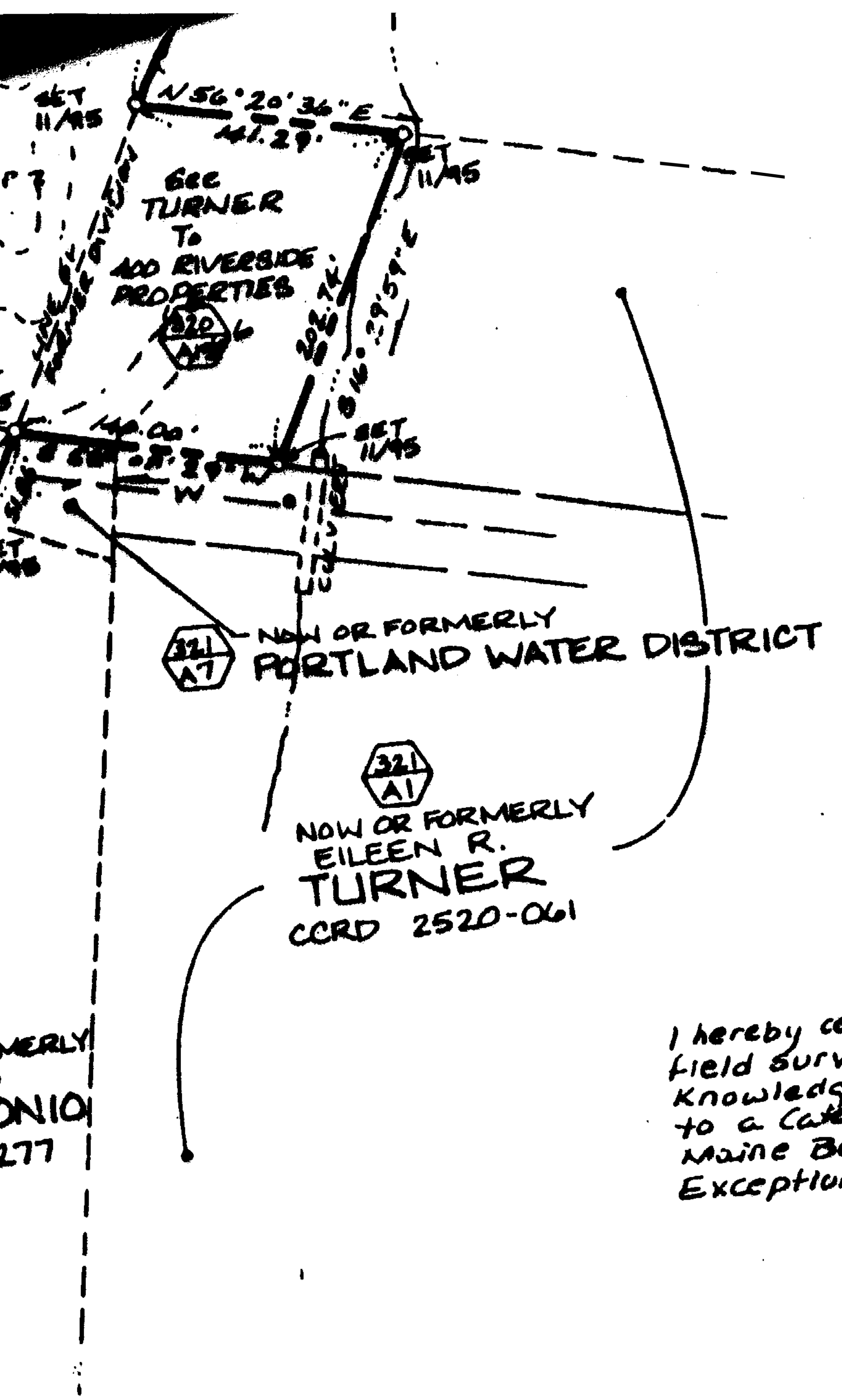
LOADING DOCK

3 PINUS STROBUS
5'-6" HT WHITE PINE

EMERY WORLDWIDE
9,840 SF

250-FT SHORELAND ZONE

100-YEAR FLOOD LIMIT



JOHN Q. ROBERTS 1.2.96 DATE
MAINE PROFESSIONAL LAND SURVEYOR #1155
LAND USE CONSULTANTS, INC.
PORTLAND, MAINE

APPROVED BY THE CITY OF PORTLAND PLANNING BOARD

CHAIR: Cyrus Y. Hagge

John H. Carroll

DATE: 6-11-96

Symbol	Legend
	WETLAND
	DRAINAGE SWALE
— W —	WATER LINE
	WIRE FENCE
	PROPERTY LINE
	RIGHT OF WAY
	WATERGATE
	BUILDING
— E —	ELECTRIC LINE
TP1	SOIL TEST PIT
— G —	GAS LINE
	CONTOUR LINE
	HYDRANT
	ABUTTER'S SIDELINE

I hereby certify to Delta Realty Exclusively that this plan depicts the results of a field survey made Nov. 1986 and is correct according to the best of my knowledge information & belief and that this plan and survey conform to a Category I Condition III survey according to the Standards of the Maine Board of Registration for Land Surveyors.
Exceptions: 1) This plan is based on recorded plans entitled a) McAlister Farm Subdivision by Steven Paul Daicy Reg. P.E. # 3529 recorded in C.C.R.D. Book 154, Pg. 25 & b) Donald O. Butler Subdivision by Jeffery McAllister Reg. L.S. # 1863 recorded in C.C.R.D. Book 142 Pg. 29.
2) Certification applies only to amendment as noted. No certifications are made or implied to any other information on this plan
3) No Monumentation has been set.

1.26.87
Date

Jeffery H. McAllister
Maine Registered Land Surveyor #1863
Land Use Consultants
Portland, Me.

STATE OF MAINE — JEFFREY H. McALLISTER 1863 — REGISTERED LAND SURVEYOR

FOR REGISTRY USE ONLY

DONALD O. BUTLER SUBDIVISION

RIVERSIDE STREET
PORTLAND, MAINE

CITY OF PORTLAND
APPROVED SITE PLAN
Subject to Dept. Conditions
Date of Approval: 4-13-04

THIRD AMENDED RECORDING PLAT

LOTS 1, 4, & 5 ONLY
OWNER OF RECORD:
400 RIVERSIDE PROPERTIES
P. O. BOX 334
WESTBROOK, MAINE 04098

ORIGINAL OWNER:
DELTA REALTY CO.
999 FOREST AVENUE
PORTLAND, MAINE

DATE: APRIL 30, 1996	JOB NO: 1396
DRN: CWF / CHK: J	FIELD BK: 26
SCALE: 1" = 100'	SHEET 1 OF 1

FEET 0 100 200 300
METERS 0 50 100

SUNWARD CORPORATION

700 13th Avenue, S.E. • Jamestown, ND 58401
(701) 252-7390

PERMIT DRAWINGS

NOTE: THESE PLANS AND SPECIFICATIONS FOR CONSTRUCTION OF THIS BUILDING ARE NOT TO BE USED FOR ERECTION PURPOSES. THESE PLANS ARE FOR BUILDING DEPARTMENT PERMIT PURPOSES ONLY. THE ANCHOR BOLT PLAN PORTION IS FOR CONSTRUCTION.

1) Manufacturer's standard specifications apply unless stipulated in the contract documents, verification of your purchase order and shown within the approval drawings submitted to you from the manufacturer.

2) Manufacturer's design, fabrication quality criteria, standard practices, standard materials including primer coatings, and panel finish shall govern the specifications with any other interpretations to the contrary not withstanding. It is understood by all parties that the Buyer/End Use Customer is responsible for clarification of inclusions or exclusions from specifications and/or architectural plans.

3) In case of discrepancies between manufacturer's plans and other trades including but not limited to foundation and architechtural plans; manufacturers' plans will govern. (Section 3. AISC Codes of Standard Practices March 2000.)

4) Approval of manufacturers' drawings and calculations constitutes acceptance of manufacturer's interpretations, assumptions of design loads and contract documents. (Section 4. AI SC C ode o f s tandard Practices March 2000.)

5) The Buyer/End Use Customer is responsible for overall project coordination. T his inc ludes a ll int erface, c ompatibility a nd design considerations covering any materials not supplied or manufactured by Sunward Corporation. This is the ultimate-responsibility of the Buyer / End Use Customer.

6) These drawings are subject to the terms of the manufacturer's Engineer's Letter of Certification. Adequacy of the design loads for the area is the responsibility of the Buyer/End Use Customer. Drawings are sealed only to certify that the structural components to be furnished meet the design loads requested and listed in the Engineer Letter of Certification.

7) It is recommended that a qualified Registered Professional Engineer design the foundation. The manufacturer is not responsible for concrete design. See section A3 – Foundations, Metal Building Manufacturers Associations Metal Building Systems Manual.

8) Notice to the erectors: Normal erection procedures include corrections, which involve time to determine cause, downtime, use of rental or owned equipment, travel and communication with the manufacturer's service department. Normal erection procedures also include moderate amounts of reaming, field welding (if required by design), cutting, shimming, touch-up painting. These items are not subject to claim for back charges.

9) Any change or correction not reported prior to the work being performed will not be eligible for reimbursement. At no time shall an erector alter the structural design without prior approval from the manufacturer's design engineer and service department. Acceptance of correction procedures will not imply acceptance of a back charge unless such changes are accepted in writing; including pay rates, proposed man-hours. Downtime, equipment costs, supervision, overhead, profit, liquidated damages and consequential costs expense are not subject to claim.

10) The terms of the claim shall be in accordance with Section IV Common Industry Practices. Section 6. Erection and other fieldwork. Specifically, Section 6.10. "Correction of errors and repairs" of the Metal Building Manufactures Associations Metal Building Systems Manual. For a claim form contact the customer services department of the manufacturer @ (701) 252-7380.

11) Claims must include written documentation, photographic documentation that shows detail, (part numbers, work performed) and any other pertinent information of completed work.

12) **Warning:** In no case should galvalume zinc steel panels be used in conjunction with lead or copper. Both have harmful corrosive effects on the galvalume zinc panels. Even run off from copper should be avoided.

13) **Safety:** It is strongly recommended that a safe working job site is a priority to the workforce. **Warnings:** Heights can be dangerous and all safety equipment that is applicable should be used. The manufacturer is not responsible for the work site safety or erection and has not investigated or recommended the erectors for its products. As such, the manufacturer is held harmless for erection quality, a ccidents, s afety a nd p ossible O SHA v iolations. Find out more about OSHA regulations by visiting www.osha.gov.

14) A325 Bolt tightening requirement. It is the responsibility of the erector to insure proper bolt tightness. See Bolt Tightening method in Erection Manual and general notes of the drawing.

15) Protection of primer. The manufacturer's standard primer applied to the structural components is not intended for exterior use or extended exposure to the elements. To protect the primer (structural components "Red Iron") should be covered so they are not exposed to water prior to erection. Water can cause the components to rust. It is recommended that the primed structural components be protected especially if they are not going to be erected immediately. There is no warranty on primer paint against flaking, peeling, fading or shipping abrasions. Touch-up paint will be provided for primer.

16) Insurance: It is recommended by the Manufacturer, and Buyer/ Owner agrees to maintain adequate coverage to insure against risk of loss from the time risk of loss passes, during unloading, delivery, and storage, through construction and after construction. Buyer/End Customer Owner understands that buildings are vulnerable to wind, water damage, and vandalism, before and during construction, and Buyer/End Customer Owner agrees to indemnify and hold Manufacturer harmless for any such damage or costs arising from same.

17) All claims for shortages or goods damaged during shipping must be noted on the Bill of Lading to qualify for repair, replacement or reimbursement.

18) Inventory must be performed at time of delivery. If inventory is refused then it shall waive buyers right for future claims.

19) Dunnage shall remain the property of the trucking company.

20) Storage of materials. All materials, especially non-painted galvalume or galvanized panels must be protected. If this material is allowed to get wet or moisture is permitted to form (condensation) between the materials serious deterioration of the finish will occur. For your protection, if these materials get wet, separate and dry all materials immediately. Metal shavings left on the panel finish will also cause panel finish deterioration.

21) The manufacturer's limited warranty does not provide for weather tightness. It is the ultimate responsibility of the erector to install the building materials in a manner that provides weather tightness. If the contractor / owner / erector feels a condition exists that does not allow for weather tightness then additional materials or sealant can be requested. The proper amount of downspouts is the owners responsibility. All closures shall be installed. Especially at low pitch roof valleys, eave overhangs, valley gutters; sealant should be installed top and bottom of the closure. In some cases, metal closures should be considered at optional pricing. To help prevent water backup under the ends of roof panels, gutters, valleys and valley gutter should be kept clear of ice and snow, by installation of heated devices and/or snow jacks that prevent sliding snow, which are not included in the purchase to the manufacturer.

Important notice to bidder for installation of building components

Please be advised when providing a quotation for erection of the material, all accessories to be supplied may not be shown on the permit, approval or erection drawings. Please contact the dealer/end customer for a complete accessory/option list and/or obtain and compare the manufacturer's verification of the purchase order with the drawings. This includes framed openings and walk-in doors, which in many cases are field located by the erector.

△

△

△

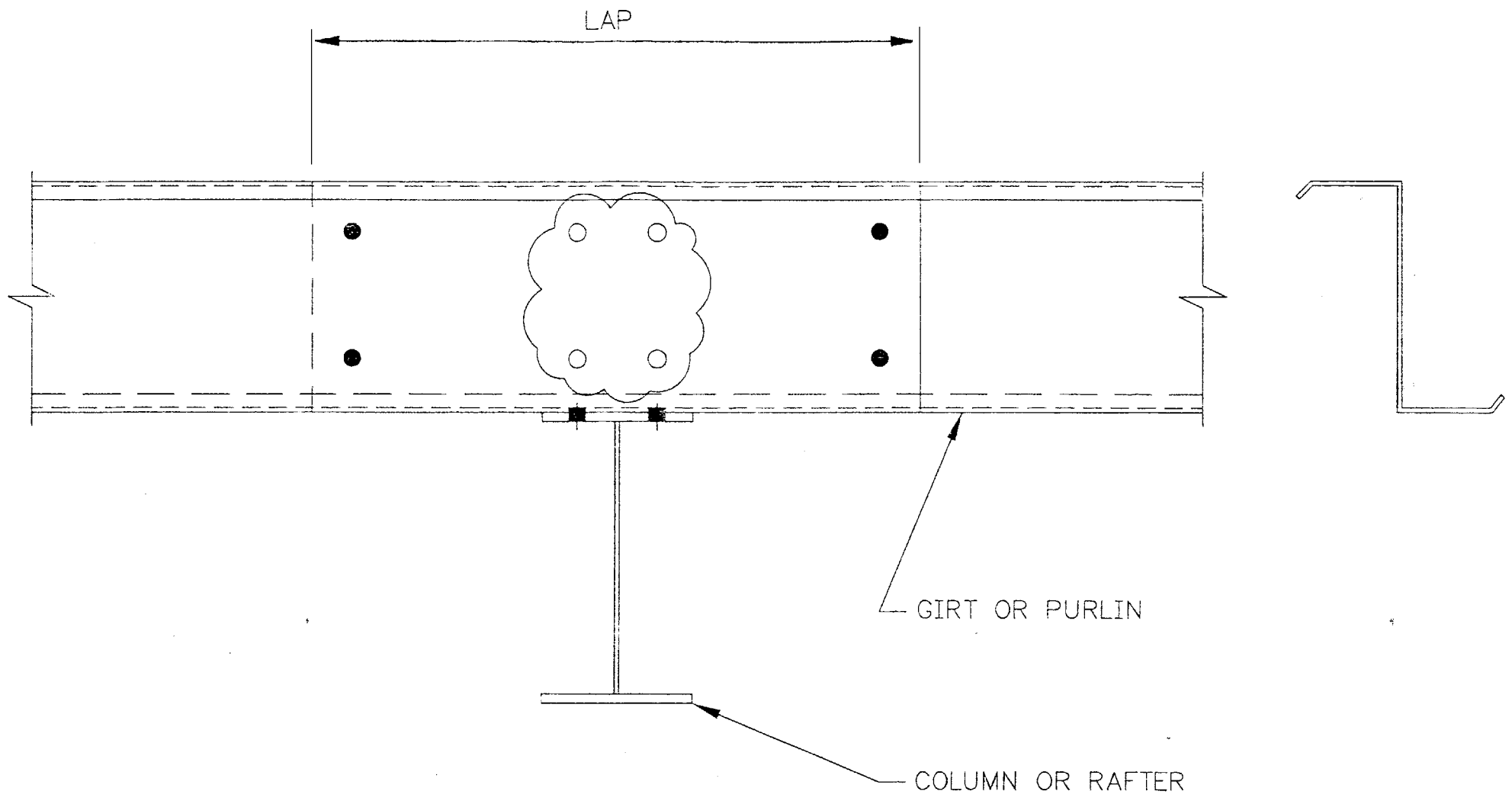
△

BUYER / END USE CUSTOMER RESPONSIBILITIES

02/04

Sunward Corporation
700 13th Ave. SE
PO Box 110
Jamestown, North Dakota 58402
701 252 7390

!!!IMPORTANT NOTICE!!!



THE QUANTITY OF ½" DIAMETER A307 BOLTS AT OUR GIRT AND PURLIN LAPS HAS BEEN REDUCED! THIS CONNECTION ONLY REQUIRES (6) BOLTS NOW, INSTEAD OF (8). WE NO LONGER REQUIRE BOLTS TO BE INSTALLED IN THE WEB OF OUR ZEE MEMBERS ABOUT THE COLUMN OR RAFTER, TO REDUCE YOUR ERECTING MANHOURS.

AS INDICATED IN THE CLOUDED AREA OF THE CONNECTION DETAIL ABOVE, THE 4 WEB HOLES WILL REMAIN OPEN UNLESS SPECIFIED BOLTS ARE REQUIRED FOR CLIPS OR OTHER CONDITIONS.

THANK YOU

3-9-3C

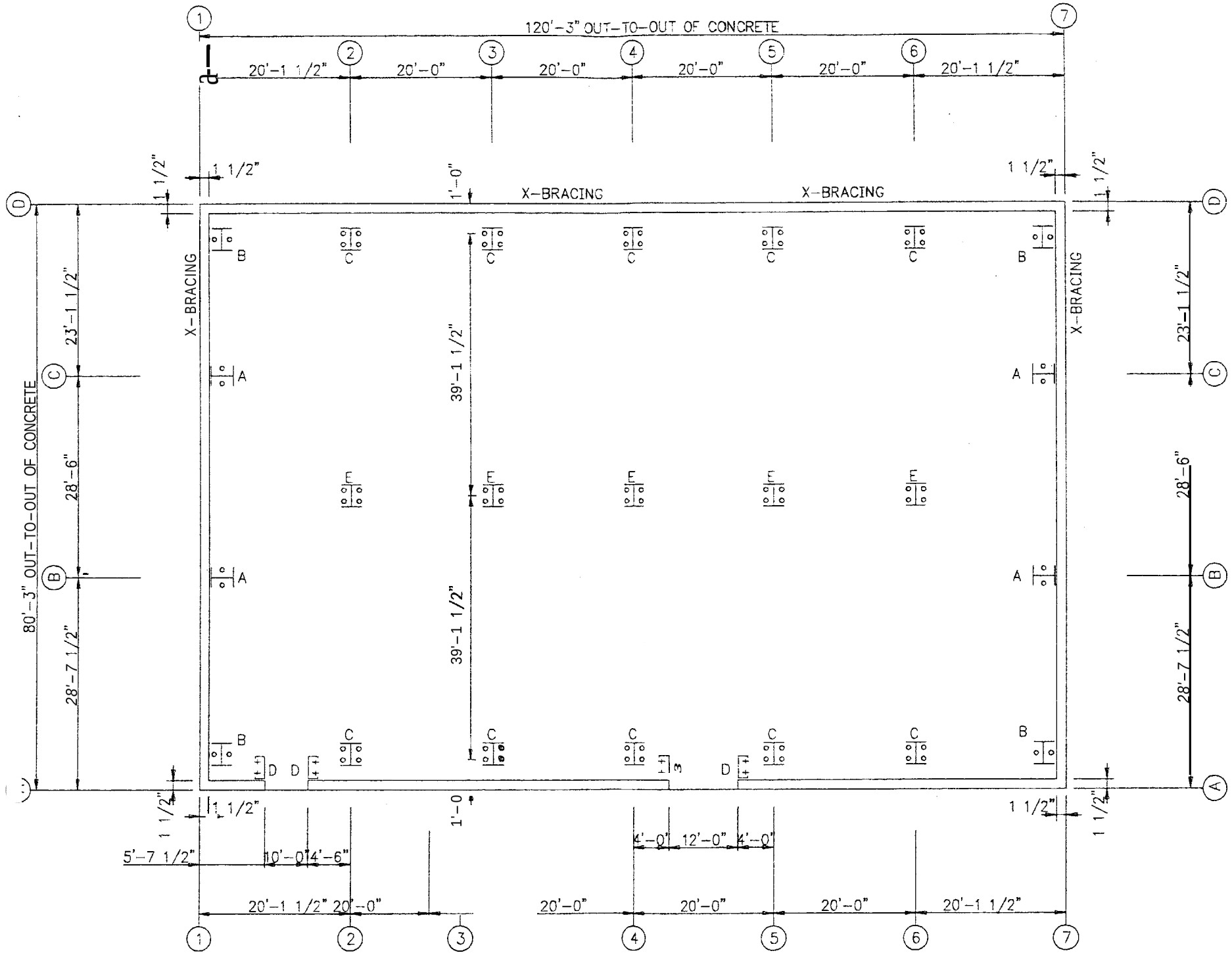
!!!IMPORTANT NOTICE!!!

!!!IMPORTANT NOTICE!!!

!!!IMPORTANT NOTICE!!!

○ Dia= 3/4"

+ Dia= 1/2"



ANCHOR BOLT SETTING PLAN

NOTE: All Base Plates At 100'-0" (U.N.)

SHEETING DESCRIPTION	
ROOF SHEETING: 26 GA. HI-RIB	COLOR: (GA) Galvalume
WALL SHEETING: 26 GA. HI-RIB	COLOR: WC = Manufacturer's Std.
TRIM COLOR: TC = Manufacturer's Std.	

STATE OF MAINE
RICHARD K. JOYCE
No. 10345
REGISTERED PROFESSIONAL ENGINEER
3/31/05

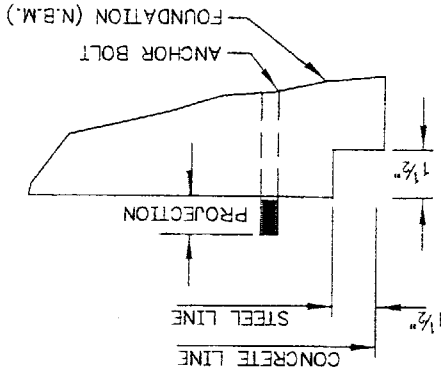
Sunward Corporation

BUYER: Mainland Structure Corp.
CUST. : Alexander-Russel Company, LLC
SITE : Portland, ME
DESCR: 80.0 x 120.0 x 16.0 1.0:12
SCALE: NONE
P.O. : G29268

DRAWN BY: WAG 3/28/05
CHECK BY: RPS 3/29/05
DES. ENG. : RPJ 3.30.05
SHEET NO. A1 OF 3

SHEETING NOTCH & BOLT PROJECTION

OMIT NOTCH AT DOOR OPENING(S) AND AS SHOWN ON ANCHOR BOLT SETTING PLAN.

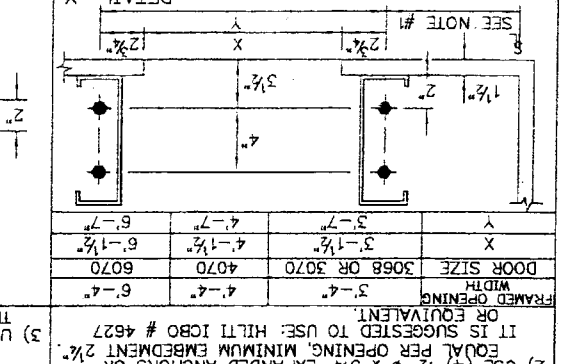


WALKDOOR ANCHOR BOLT DETAIL

1) WHEN FIELD LOCATING WALKDOOR DO SO IN ONE FOOT INCREMENTS STARTING AT STEEL LINE. EXAMPLE: 1'-8½", 2'-8½", 3'-8½", ETC.
2) USE (4) ½" ø x 3¾" EXPANDED ANCHORS OR EQUAL PER OPENING. MINIMUM EMBEDMENT 2½". IT IS SUGGESTED TO USE: HILTI ICBO # 4627 OR EQUIVALENT.

FRAMED OPENING WIDTH	3'-4"	4'-4"	6'-4"
DOOR SIZE	3068 OR 3070	4070	6070
X	3'-1½"	4'-1½"	6'-1½"
Y	3'-7"	4'-7"	6'-7"

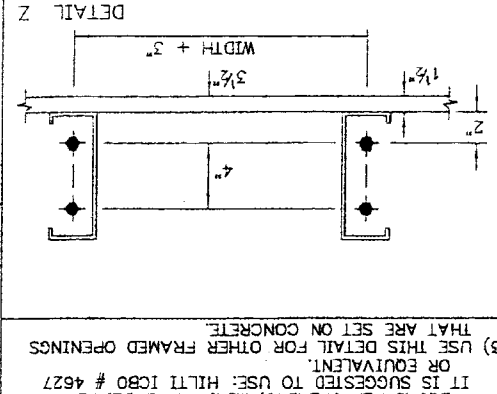
DETAIL Y



WINDOW ANCHOR BOLT DETAIL

1) FIELD LOCATED BY OWNER.
2) USE (4) ½" ø x 3¾" EXPANDED ANCHORS OR EQUAL PER OPENING. MINIMUM EMBEDMENT 2½".
3) USE THIS DETAIL FOR OTHER FRAMED OPENINGS THAT ARE SET ON CONCRETE.

DETAIL Z

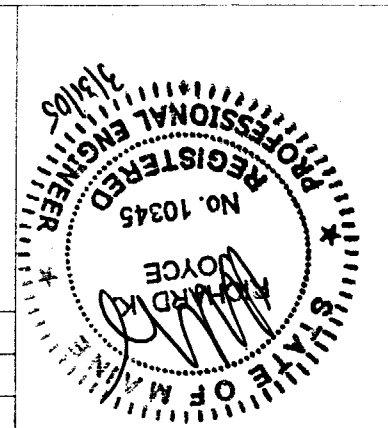


NOTE

SOME DETAILS SHOWN MAY NOT APPLY TO YOUR BUILDING. REFER TO YOUR VERIFICATION FOR THE OPTIONS WHICH ARE INCLUDED.

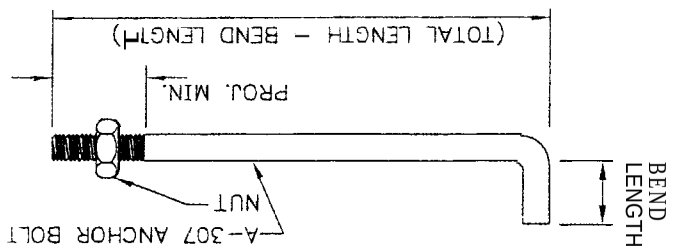
VERIFY LENGTH AND WIDTH DIMENSIONS

1) CHECK YOUR ANCHOR BOLT SETTING PLAN TO MAKE CERTAIN THAT ALL THE DIMENSIONS SHOWN AGREE WITH THE DIMENSIONS ON YOUR VERIFICATION.
2) NOTE, DIMENSIONS SHOWN ON THE VERIFICATION REFER TO THE STEEL LINES.



ANCHOR BOLT SCHEDULE

Qnt	Loc	Dia (in)	Total Len (in)	Bend Len (in)	Proj (in)
+ 8	DJ	1/2"	11.50	1.50	1.50
O 16	EW	3/4"	17.50	2.50	2.00
O 60	RF	3/4"	17.50	2.50	2.00

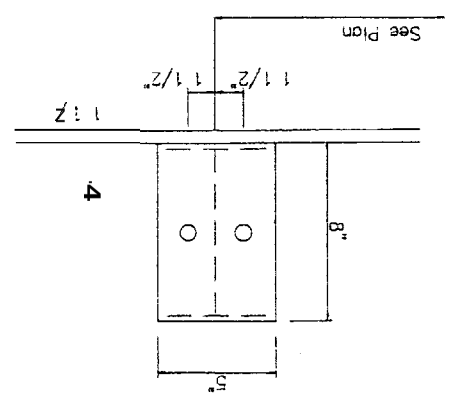


Sunward Corporation

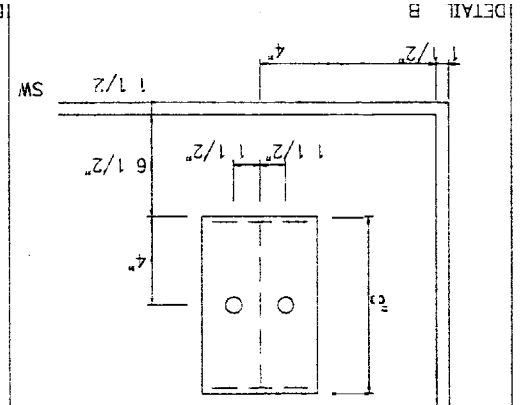
BUYER: Mainland Structure Corp.
CUST.: Alexander-Russel Company, LLC
SITE: Portland, ME
DESCR: 80.0 x 120.0 x 16.0
SCALE: NONE
P.O.: G29268

DRAWN BY: WAG 3/28/05
CHECK BY: RPS 3/29/05
DES. ENG.: RPS 3/30/05
1.0:12
SHEET NO. A2 OF 3

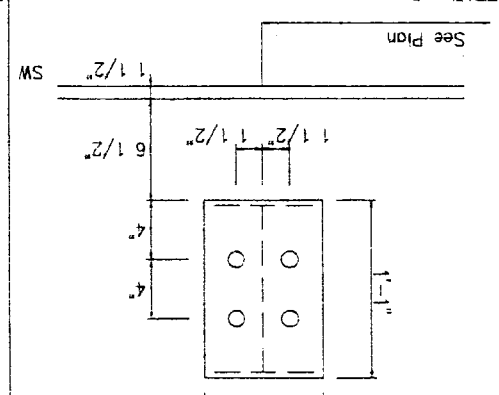
DETAIL A



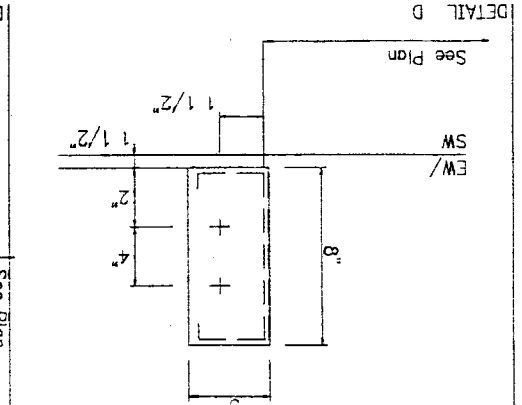
DETAIL B



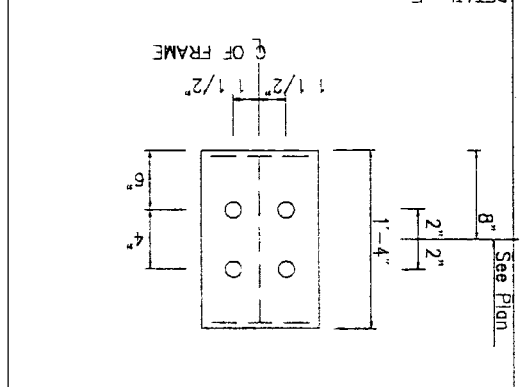
DETAIL C



DETAIL D



DETAIL E



GENERAL NOTES

1. ALL COLUMNS SHOWN ON ANCHOR BOLT PLAN CAN NOT BE MOVED. REFER TO FRAMED OPENING DETAILS FOR LOCATING ANY FRAMED OPENINGS NOT SHOWN.
2. THE ANCHOR BOLT SIZES, GAGES, AND SPACING SHOWN ON THE ANCHOR SETTING PLAN ARE FOR CAST IN PLACE J-BOLT OR STUD ANCHORS UNLESS SPECIALLY NOTED ON THE DRAWING. BOLTS CANNOT BE REPLACED BY EXPANSION OR EPOXY ANCHORS.
3. ANCHOR BOLTS AND ANY OTHER ITEMS EMBEDDED IN CONCRETE, INCLUDING ALL MASONRY FASTENERS AND ANCHORS, ARE NOT BY THE METAL BUILDING MANUFACTURER.
4. FOUNDATION DESIGN OR ANY OTHER CONCRETE DESIGN IS NOT BY THE METAL BUILDING MANUFACTURER (CONSULT A LOCAL ENGINEER FOR THE DESIGN OF FOUNDATION AND CONCRETE WORK).
5. BASE PLATES ARE DESIGNED ASSUMING CONCRETE HAS A MINIMUM STRENGTH OF 2500 P.S.I. AT 28 DAYS.
6. BASE PLATE SIZES ARE 3" X 8" UNLESS NOTED.
7. ALL REACTIONS ARE GIVEN IN KIPS (1000 LBS.).
8. WALKDOORS, WINDOWS, VENTS, LOUVERS, LIGHT PANELS, LINER, AND KITS ARE TO BE FIELD LOCATED, UNLESS NOTED. REFER TO YOUR VERIFICATION AND ANY REVISIONS FOR THE QUANTITY.

MATERIAL SPECIFICATIONS

ROOF AND WALL PANELS: 26&24 GA.
BARE GALVALUME:
ASTM A792, SS GRADE 80, AZ 55 ALUMINUM - ZINC ALLOY COATED.
PAINTED:
ASTM A792, SS GRADE 80, AZ 50 ALUMINUM - ZINC ALLOY COATED.
TRIM MATERIAL ONLY:
ASTM A792, SS GRADE 50, AZ 50 ALUMINUM - ZINC ALLOY COATED.

LINER PANELS: (29 GA) DL+CL+LL

PAINTED	ASTM A653, GRADE 80, GALVANIZED G40
GALVANIZED	ASTM A653, GRADE 80, G90
GALVALUME	ASTM A792, AZ55, GRADE 80

PURLINS, GIRTS AND EAVE STRUTS: ASTM A1011 SS OR HSLAS, CLASS 1, GRADE 55

BUILT-UP SECTIONS: PLATE ASTM A572 HSLAS, TYPE 1, GRADE 50
SHEET ASTM A1011 HSLAS, CLASS 1, GRADE 50
BAR ASTM A529, GRADE 55

HOT-ROLLED SECTIONS: ASTM A36, GRADE 36
ASTM A529, GRADE 50

STRUCTURAL (ROUND) PIPE: ASTM A500B (Fy=42 ksi.)

STRUCTURAL (SQUARE, RECTANGULAR) TUBE: ASTM A500B (Fy=46 ksi.)

BOLTS: ASTM A325,TYPE 1 HEAVY HEX BOLT WITH HEAVY HEX NUT, ASTM A563 GRADE C
WASHERS: TYPE 1 ASTM F436 (IF REQUIRED)
ASTM A307, GRADE A HEX BOLT WITH HEX NUT, ASTM A563 GRADE A
ANCHOR BOLTS: ASTM A307 (NOT BY THE MANUFACTURER)

FASTENERS: ALL SELF-DRILLING AND SELF-TAPPING SHEET METAL SCREWS WILL CONFORM TO THE FOLLOWING:
- #12-14 X 1¼" TEK 2 OR TEK 3 SELF-DRILL SCREW CONFORMS TO SAE J78-98 WITH SEALING WASHER.
- #12-14 X 1½" TEK 2 OR TEK 3 SELF-DRILL SCREW CONFORMS TO SAE J78-98 WITH SEALING WASHER.
- #12-14 X 1¼" #5 TEK 5 SELF-DRILL SCREW CONFORMS TO SAE J78-98 WITH SEALING WASHER.
- #12-14 X ¾" TYPE A OR AB CONFORMS TO ANSI STANDARD B18.6.4 WITH SEALING WASHER.
- #17 X ¾" TYPE AB TAPPING SCREW CONFORMS TO ANSI STANDARD B18.6.4 WITH SEALING WASHER.
- #10 X 1½" WOODGRIP SCREW WITH SEALING WASHER.

BRACING:

CABLE	EHS (EXTRA HIGH STRENGTH) 7- WIRE CLASS A GALVANIZED STEEL STRAND CONFORMING TO ASTM A475.
HILLSIDE WASHER	ASTM A48, CL-30
EYEBOLTS	ZINC COATED ASTM B633 TURNED AND WELDED WITH ASTM A563 GRADE A NUT.
	ASTM F844 WASHER
ROD	ASTM A36
ANGLES	ASTM A36

HIGH STRENGTH BOLTS: ASTM A 325 (USED WHERE SPECIFIED ON DRAWINGS). A325 BOLTS USED ON RIGID FRAME MOMENT CONNECTIONS ARE DESIGNED AS BEARING TYPE CONNECTIONS, AND THREADS ARE INCLUDED IN THE SHEAR PLANE.
TURN OF THE NUT METHOD IS TO BE USED IN TIGHTENING THE HIGH STRENGTH MOMENT CONNECTION BOLTS. SPECIAL INSPECTION OF THE TIGHTENING OF THESE BOLTS IS REQUIRED AS SPECIFIED ON BUILDING CODES.

NOTES FOR REACTIONS

1. All loading conditions are examined and only maximum/minimum H or V and the cooresponding H or V are reported.
2. Positive reactions are as shown in the sketch. Foundation loads are in opposite directions.
3. Bracing reactions are in the plane of the brace with the H pointing away from the braced bay. The vertical reaction is downward.
4. Building reactions are based on the following building data.

Width (ft)	= 80
Length (ft)	= 120
Eave Height (ft)	= 16 / 16
Roof Slope (rise/12)	= 1.0:12 / 1.0:12
Dead Load (psf)	= 2.2
Collateral Load (psf)	= 3
Live Load (psf)	= 20
Roof Snow Load (psf)	= 35
Ground Snow Load (psf)	= 50
Snow Exposure	= 1.00
Thermal Coefficient	= 1.00
Wind Speed (mph)	= 94
Wind Code	= IBC 03
Exposure	= C
Closed/Open	= Closed
Importance - Wind	= 1.00
Importance - Seismic	= 1.00
Seismic coeff (Fa*Ss)	= 0.560
Seismic, Ss	= 0.369
Seismic, S1	= 0.098
Seismic, Sds	= 0.37195385976
Seismic, Sd1	= 0.156800784
Site Class	= D
Seismic Design Category	= D

5. Loading conditions are

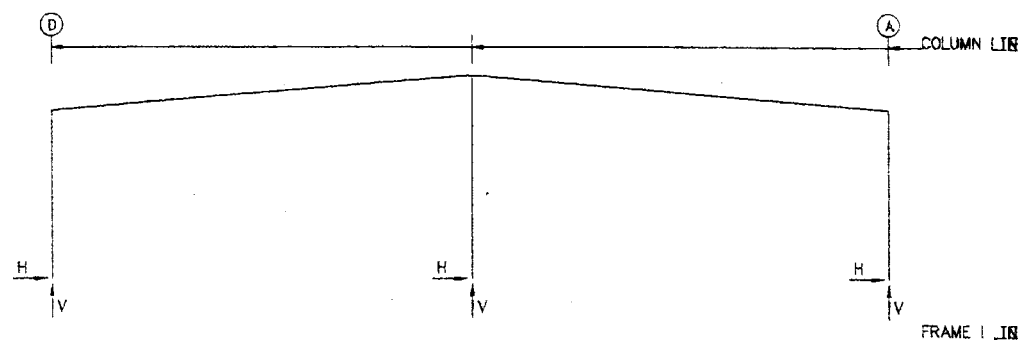
1	
2	0.60DL+WL1
3	0.60DL+WR1
4	0.60DL+LnWndL
5	0.60DL+LnWndR
6	DL+CL+F1UNB_SL 3
7	DL+CL+F1UNB_SL 4
8	DL+CL+F2UNB_SL 3
9	DL+CL+F2UNB_SL 4
10	0.60DL+WP+LnWndL
11	DL+CL+E1UNB_SL 2
12	0.60DL+WL1+WS
13	0.60DL+WR1+WS
14	DL+CL+E1UNB_SL 1
15	DL+CL+E2UNB_SL 2
16	DL+CL+E2UNB_SL 1

ENDWALL COLUMN: MAXIMUM REACTIONS

Frm Line	Col Line	Load Id	Hmax H	V Vmax	Load Id	Hmin H	V Vmin
1	D	10	0.0	-1.6	10	0.0	-1.6
		11	0.0	5.6			
1	C	12	3.3	-4.8	10	-3.0	-4.8
		11	0.0	16.8	12	3.3	-4.8
1	B	13	3.7	-5.3	10	-3.4	-5.6
		14	0.0	17.9			
1	A	13	0.1	-3.1	1	-0.4	8.2
		1	-0.4	8.2	13	0.1	-3.1
7	A	12	0.0	-2.1	12	0.0	-2.1
		15	0.0	7.3			
7	B	12	3.7	-5.3	10	-3.4	-5.6
		15	0.0	17.9			
7	C	13	3.3	-4.8	10	-3.0	-4.8
		16	0.0	16.8	13	3.3	-4.8
7	D	10	0.0	-1.6	10	0.0	-1.6
		16	0.0	5.6			

BRACING REACTIONS, PANEL SHEAR

Wall Loc	Wall Line	Col Line	± Reactions (k) Wind Horz	Wind Vert	Seismic Horz	Seismic Vert	Panel Shear (lb/ft)
1	D		1.1	0.7	1.1	0.7	
	C		1.1	0.7	1.1	0.7	
A							
7	C		1.1	0.7	1.1	0.7	
	D		1.1	0.7	1.1	0.7	
D	6	5	2.3	1.6	3.2	2.2	
	4	3	2.3	1.6	3.2	2.2	



RIGID FRAME: MAXIMUM REACTIONS

Frm Line	Col Line	Load Id	Hmax H	V Vmax	Load Id	Hmin H	V Vmin
2 *	D	7	9.8	25.0	2	-3.4	-5.3
					4	-0.7	-6.7
2 *	A	3	3.2	-7.6	6	-9.8	25.5
		6	-9.8	25.5	3	3.2	-7.6
2 *	@ 40.0	6	5.4	29.2	7	-5.4	29.2
		1	-0.3	31.7	2	0.1	-6.7

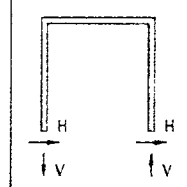
2 * Frame lines: 2 3

RIGID FRAME: MAXIMUM REACTIONS

Frm Line	Col Line	Load Id	Hmax H	V Vmax	Load Id	Hmin H	V Vmin
4 *	D	9	9.8	25.0	2	-3.4	-5.4
					4	-0.7	-6.7
4 *	A	3	3.4	-5.4	8	-9.8	25.0
		8	-9.8	25.0	5	0.7	-6.8
4 *	@ 40.0	8	5.4	29.2	9	-5.4	29.2
		1	0.0	31.9	2	0.1	-6.8

4 * Frame lines: 4 5 6

WIND BENT REACTIONS



Wall Loc	Wall Line	Col Line	± Reactions Wind(k) Horz	Wind Vert	Seismic(k) Horz	Seismic Vert
	A	3	1.16	1.67	1.57	2.26
	A	4	1.16	1.67	1.57	2.26
	A	5	1.16	1.67	1.57	2.26
	A	6	1.16	1.67	1.57	2.26

BUILDING ACCESSORIES SCHEDULE

QTY.	ACCESSORY DESCRIPTION
3	3-0" x 4-0" WINDOW F.O., FIELD LOCATED
1	12'-10" x 7'-0" WINDOW F.O., FIELD LOCATED
1	15'-0" x 7'-0" WINDOW F.O., FIELD LOCATED
1	25'-0" x 7-0" WINDOW F.O., FIELD LOCATED

STATE OF MAINE
RICHARD K JOYCE
No. 10345
REGISTERED PROFESSIONAL ENGINEER
3/28/05

△
△
△

Sunward Corporation

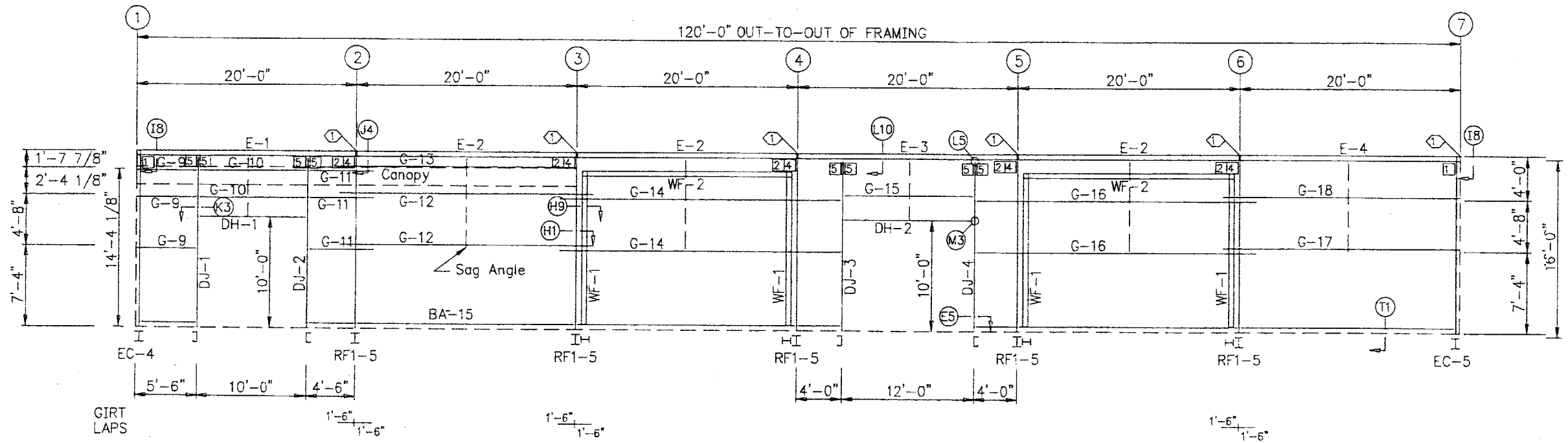
BUYER: Mainland Structure Corp.
CUST. : Alexander-Russel Company, LLC
SITE : Portland, ME
DESCR: 80.0 x 120.0 x 16.0 1.0:12
SCALE: NONE
P.O. : G29268

DRAWN BY: WAG 3/28/05
CHECK BY: RPS 3/28/05
DES. ENG.: 3.30.05
SHEET NO. A3 OF 3

SPECIAL BOLTS					
ID	QUAN	TYPE	DIA	LENGTH	WASH
1	2	A325	1/2"	1 1/4"	2

CONNECTION PLATES FRAME LINE A	
ID	MARK/PART
1	FC-70
2	FC-108
3	VOID
4	ESA-1
5	FC-136

MEMBER TABLE FRAME LINE A	
MARK	PART
WF-1	W10542
WF-2	W10542
DJ-1	8C16
DJ-2	8C16
DJ-3	8C16
DJ-4	8C16
DH-1	8C16
DH-2	8C16
E-1	8C16
E-2	8C16
E-3	8C16
E-4	8C16
G-9	6.5Z16
G-10	6.5Z16
G-11	6.5Z16
G-12	6.5Z16
G-13	6.5Z16
G-14	6.5Z16
G-15	6.5Z16
G-16	6.5Z16
G-17	6.5Z14
G-18	6.5Z16



ELEVATION AT: FRAME LINE A

SAG ANGLE NOTES:
(MARK: PBA-10, SIZE: 1"x1"x16 GAGE)

If shown on drawings PBA-10 is located as shown. One row is at midpoint of bay, two rows are at 1/3 points of bay, three rows are at 1/4 points of bay.

RF-	RIGID FRAME	CL-	SPECIAL CLIP	F.S.	FAR SIDE	P-	PURLIN
EC-	ENDWALL COLUMN	FTC-	FRAMING CLOSURE	N.S.	NEAR SIDE	E-	EAVE STRUT
ER-	ENDWALL RAFTER	T-	TRIM	O.C.	ON CENTER	FC-	FRAMING CLIP
DJ-	DOOR JAMB	TR-	SPECIAL TRIM	℄	STEEL LINE	FB-	FLANGE BRACE
DH-	DOOR HEADER	AL-	ANGLE	A.S.	AS SHOWN	℄	CENTER LINE
G-	GIRT	A-	SPECIAL ANGLE	O.H.	OPPOSITE HAND	N.A.	NOT APPLICABLE

TYP.	TYPICAL
U.N.	UNLESS NOTED
CB-	CROSS BRACE
N.B.M.	NOT BY METAL BUILDING MANUFACTURER

STATE OF MAINE
RICHARD J. JOYCE
No. 10345
REGISTERED PROFESSIONAL ENGINEER
3/30/05

Sunward Corporation

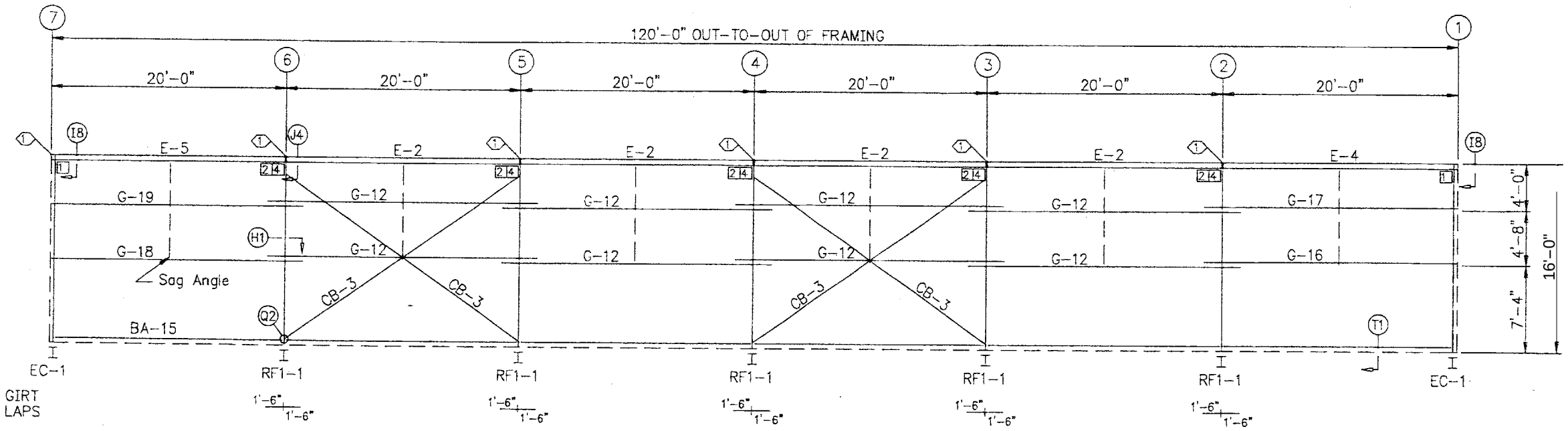
BUYER: Mainland Structure Corp.
CUST. : Alexander-Russel Company, LLC
SITE : Portland, ME
DESCR: 80.0 x 120.0 x 16.0 1.0:12
SCALE: NONE
P.O. : G29268

DRAWN BY: WAG 3/29/05
CHECK BY:
DES. ENG.: 3.30.05
SHEET NO. E1 OF 10

SPECIAL BOLTS					
○ ID	QUAN	TYPE	DIA	LENGTH	WASH
1	2	A325	1/2"	1 1/4"	2

CONNECTION PLATES FRAME LINE D	
□ ID	MARK/PART
1	FC-70
2	FC-108
3	VOID
4	ESA-1

MEMBER TABLE FRAME LINE D	
MARK	PART
E-2	8C16
E-4	8C16
E-5	8C16
G-12	6.5Z16
G-16	6.5Z14
G-17	6.5Z16
G-18	6.5Z14
G-19	6.5Z16
CB-3	CABLE: ½"ø



ELEVATION AT: FRAME LINE D

SAG ANGLE NOTES:
(MARK: PBA-10, SIZE: 1"x1"x16 GAGE)

If shown on drawings PBA-10 is located as shown. One row is at midpoint of bay, two rows are at 1/3 points of bay, three rows are at 1/4 points of bay.

STATE OF MAINE
RICHARD K. JOYCE
No. 10345
REGISTERED PROFESSIONAL ENGINEER
3/31/05

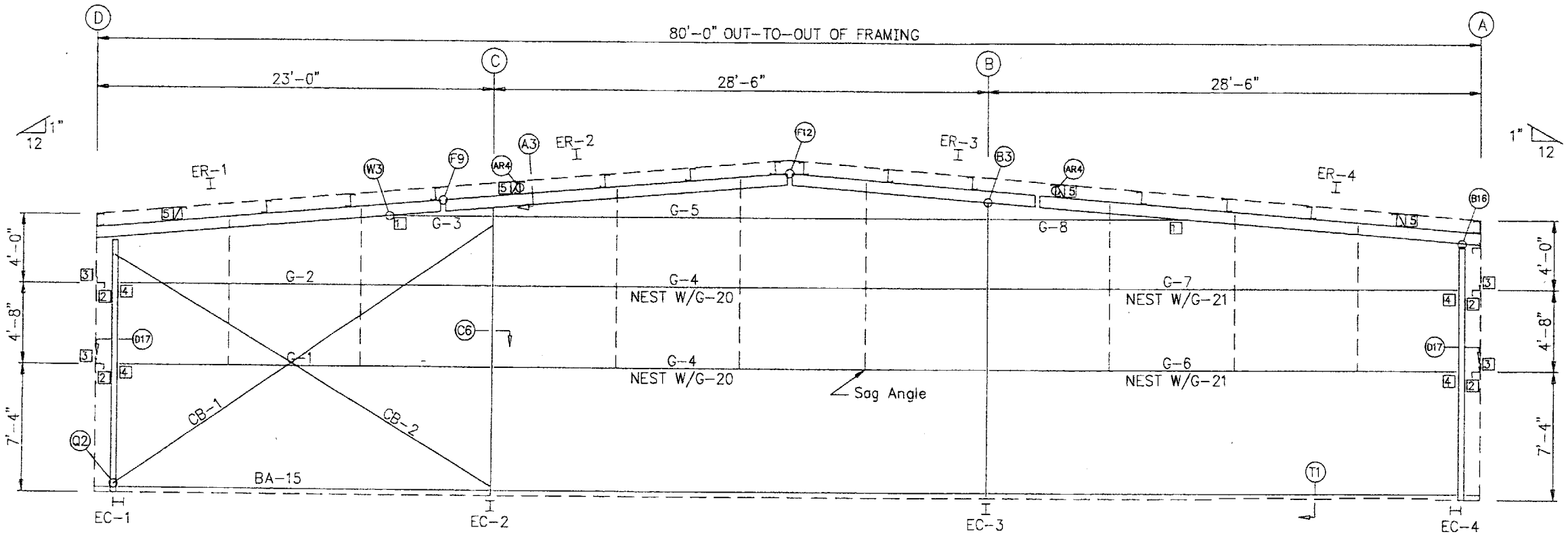
Sunward Corporation

BUYER: Mainland Structure Corp.
CUST. : Alexander-Russel Company, LLC
SITE : Portland, ME
DESCR: 80.0 x 120.0 x 16.0 1.0:12
SCALE: NONE
P.O. : G29268

DRAWN BY: WAG 3/28/05
CHECK BY:
DES. ENG.: 3.30.05
SHEET NO. E2 OF 10

CONNECTION PARTS LINE 1	
ID	PART
1	FC-128
2	FC-54
3	FC-114
4	FC-76
5	FC-209

MEMBER TABLE LINE 1	
PART	MATERIAL
EC-1	W08542
EC-2	W08542
EC-3	W08542
EC-4	W08542
ER-1	W12642
ER-2	W12642
ER-3	W12642
ER-4	W12642
G-1	9Z14
G-2	9Z16
G-3	9Z16
G-4	9Z16
G-5	9Z15
G-6	9Z16
G-7	9Z16
G-8	9Z16
G-20	9Z16
G-21	9Z16
CB-1	CABLE: 5/16"ø
CB-2	CABLE: 5/16"ø



ELEVATION AT: LINE 1

SAG ANGLE NOTES:
(MARK: PBA-10, SIZE: 1"x1"x16 GAGE)

If shown on drawings PBA-10 is located as shown. One row is at midpoint of bay, two rows are at 1/3 points of bay, three rows are at 1/4 points of bay.

BUILT-UP MEMBER ID, WHERE FORMAT IS: WAABCD

SHAPE = I EXAMPLE: W 0 8 5 4 2

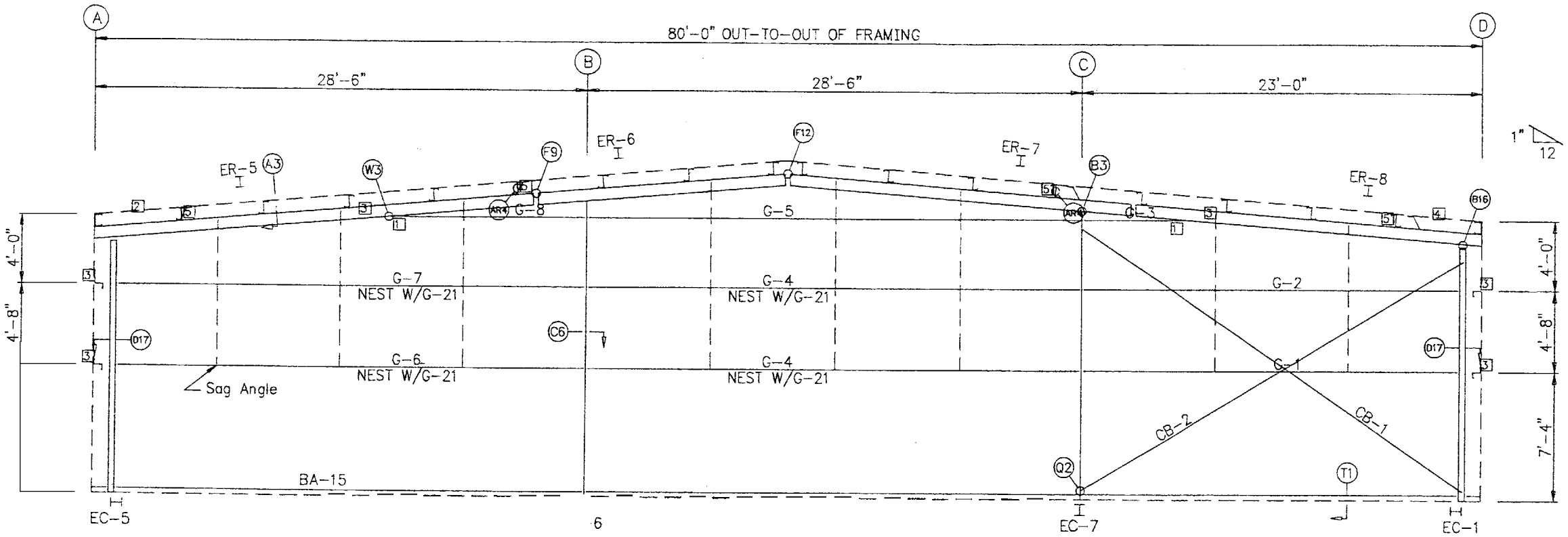
- W = WELDED MEMBER TYPE
- AA = MEMBER DEPTH IN INCHES
- B = FLANGE WIDTH IN INCHES, 5=5", 6=6", 8=8", 0=10", 2=12"
- C = FLANGE THICKNESS IN 1/16 INCH UNITS, 3=3/16", 4=1/4", 6=3/8", 8=1/2", 0=5/8", 2=3/4"
- D = WEB THICKNESS IN 1/16 INCH UNITS, 2=.112, 3=.179, 4=.250, 5=.3125, 6=.375

STATE OF MAINE
RICHARD K. JOYCE
No. 10345
REGISTERED PROFESSIONAL ENGINEER
3/31/05

Sunward Corporation

BUYER: Mainland Structure Corp.
CUST. : Alexander-Russel Company, LLC
SITE : Portland, ME
DESCR: 80.0 x 120.0 x 16.0 1.0:12
SCALE: NONE
P.O. : G29268

DRAWN BY: WAG 3/29/05
CHECK BY:
DES. ENG.: 3.30.05
SHEET NO. E3 OF 10



ELEVATION AT: LINE 7

CONNECTION PARTS
LINE 7

ID	PART
1	FC-128
2	FC-99
3	FC-114
4	FC-98
5	FC-209

MEMBER TABLE
LINE 7

PART	MATERIAL
EC-1	W08542
EC-5	W08542
EC-6	W08542
EC-7	W08542
ER-5	W12642
ER-6	W12642
ER-7	W12642
ER-8	W12642
G-1	9Z14
G-2	9Z16
G-3	9Z16
G-4	9Z16
G-5	9Z15
G-6	9Z16
G-7	9Z16
G-8	9Z16
G-20	9Z16
G-21	9Z16
CB-1	CABLE: 5/16"ø
CB-2	CABLE: 5/16"ø

SAG ANGLE NOTES:
(MARK: PBA-10, SIZE: 1"x1"x16 GAGE)

If shown on drawings PBA-10 is located as shown. One row is at midpoint of bay, two rows are at 1/3 points of bay, three rows are at 1/4 points of bay.

STATE OF MAINE
RICHARD K JOYCE
No. 10345
REGISTERED PROFESSIONAL ENGINEER
3/30/05

Sunwood Corporation

BUYER: Mainland Structure Corp.
CUST. : Alexander-Russel Company, LLC
SITE : Portland, ME
DESCR: 80.0 x 120.0 x 16.0 1.0:12
SCALE: NONE
P.O. : G29268

DRAWN BY: WAG
3/29/05
CHECK BY:
DES. ENG.: 3.30.05
SHEET NO. E4 OF 10