Reviewed for Code Compliance
Inspections Division
Approved with Conditions

Date: 10/03/14

BUILDER/CONTRACTOR NOTES

IT IS THE RESPONSIBILITY OF THE BUILDER/CONTRACTOR TO INSURE THAT ALL PROJECT PLANS AND SPECIFICATIONS COMPLY WITH THE APPLICABLE REQUIREMENTS OF ANY GOVERNING BUILDING AUTHORITIES. THE SUPPLYING OF SEALED ENGINEERING DATA AND DRAWINGS FOR THE METAL BUILDING SYSTEMS DOES NOT IMPLY OR CONSTITUTE AN AGREEMENT THAT ESSEX STRUCTURAL STEEL OR ITS DESIGN ENGINEER IS ACTING AS THE ENGINEER OF RECORD OR DESIGN PROFESSIONAL FOR A CONSTRUCTION PROJECT.

THE CONTRACTOR MUST SECURE ALL REQUIRED APPROVALS AND PERMITS FROM APPROPRIATE AGENCY AS REQUIRED.

APPROVAL OF ESSEX DRAWINGS AND CALCULATIONS INDICATE THAT ESSEX STRUCTURAL STEEL CORRECTLY INTERPRETED AND APPLIED THE REQUIREMENTS OF THE CONTRACT DRAWINGS AND SPECIFICATIONS.

WHERE DISCREPANCIES EXIST BETWEEN ESSEX STRUCTURAL STEEL PLANS AND THE PLANS FOR OTHER TRADES, THE STRUCTURAL STEEL PLANS SHALL GOVERN. (SECT. 3.3 AISC CODE OF STANDARD PRACTICE 9TH ED.) DESIGN CONSIDERATIONS OF ANY MATERIALS IN THE STRUCTURE WHICH ARE NOT FURNISHED BY ESSEX STRUCTURAL STEEL ARE THE RESPONSIBILITY OF THE CONTRACTOR AND ENGINEERS OTHER THAN ESSEX STRUCTURAL STEEL ENGINEERS UNLESS SPECIFICALLY INDICATED.

THE CONTRACTOR IS RESPONSIBLE FOR ALL ERECTION OF STEEL AND ASSOCIATED WORK IN COMPLIANCE WITH ESSEX STRUCTURAL STEEL CONSTRUCTION DRAWINGS.

PRODUCTS SHIPPED TO BUILDER OR HIS CUSTOMER SHALL BE INSPECTED BY BUILDER IMMEDIATELY UPON ARRIVAL. CLAIMS FOR SHORTAGE OR DEFECTIVE MATERIALS IF NOT PACKAGED MUST BE MAILED OR FAXED TO ESSEX WITHIN (5) DAYS AFTER RECEIPT OF SHIPMENT. HOWEVER IF A DEFECT IS OF SUCH A NATURE THAT REASONABLE VISUAL INSPECTION WOULD FAIL TO DISCLOSE IT, THEN THE CLAIM MUST BE MADE WITHIN (5) DAYS AFTER THE BUILDER LEARNS OF THE DEFECT. ESSEX WILL NOT BE LIABLE FOR ANY DEFECT UNLESS CLAIM IS MADE WITHIN (1) YEAR AFTER THE DATE OF ORIGINAL SHIPMENT BY ESSEX TO BUILDER OR HIS CUSTOMER. ESSEX WILL BE GIVEN A REASONABLE OPPORTUNITY TO INSPECT DEFECTIVE MATERIALS UPON RECEIPT OF CLAIM BY BUILDER.

IF A DEFECT IS OF SUCH A NATURE THAT IT CAN BE REMEDIED BY A FIELD OPERATION AT THE JOB SITE WITHOUT THE NECESSITY OF RETURNING THE MATERIAL TO ESSEX, THEN UPON WRITTEN AUTHORIZATION OF ESSEX, THE BUILDER MAY REPAIR OR CAUSE THE MATERIAL TO BE REPAIRED AND ESSEX WILL REIMBURSE THE BUILDER FOR THE COST OF THE REPAIR IN ACCORDANCE WITH THE WRITTEN AUTHORIZATION.

ALL BRACING AS SHOWN AND PROVIDED BY ESSEX FOR THIS BUILDING IS REQUIRED AND SHALL BE INSTALLED BY THE ERECTOR AS A PERMANENT PART OF THIS STRUCTURE.

TEMPORARY SUPPORTS, SUCH AS TEMPORARY GUIDES, BRACES, FALSEWORK, CRIBBING OR OTHER ELEMENTS REQUIRED FOR THE ERECTION OPERATION WILL BE DETERMINED, FURNISHED AND INSTALLED BY THE ERECTOR. THESE TEMPORARY SUPPORTS WILL SECURE THE STEEL FRAMING, OR ANY PARTLY ASSEMBLED STEEL FRAMING, AGAINST LOADS COMPARABLE IN INTENSITY TO THOSE FOR WHICH THE STRUCTURE WAS DESIGNED, RESULTING FROM WIND, SEISMIC FORCES AND ERECTION OPERATIONS, BUT NOT UNPREDICTABLE LOADS SUCH AS THOSE DUE TO TORNADO, EXPLOSION OR COLLISION. (SECT. 7.9.1 AISC CODE OF STANDARD PRACTICE, 9TH ED.)

APPROVAL NOTES

THE FOLLOWING CONDITIONS APPLY IF THESE DRAWINGS ARE USED AS APPROVAL DRAWINGS:

A) IT IS IMPERATIVE THAT ANY CHANGES TO THESE DRAWINGS:
   1) BE MADE IN RED INK
   2) ALL CHANGES CLEARLY INDICATED.
   3) BE LEGIBLE AND UNAMBIGUOUS
   4) MARK UP (2) SETS OF DRAWINGS, RETURN (1) SET WITH ANY CORRECTIONS AND ADVISE IF WE CAN PROCEED WITH FABRICATIONS, PER THOSE MARKED-UP DRAWINGS
B) DATED SIGNATURE IS REQUIRED ON ALL PAGES
C) MANUFACTURER RESERVES THE RIGHT TO RESUBMIT DRAWINGS WITH EXTENSIVE OR COMPLEX CHANGES REQUIRED TO AVOID MISFABRICATION. THIS MAY IMPACT DELIVERY SCHEDULE.
D) APPROVAL OF THESE DRAWINGS INDICATES CONCLUSIVELY THAT ESSEX HAS CORRECTLY INTERPRETED THE CONTRACT REQUIREMENTS. AND FURTHER CONSTITUTES AGREEMENT THAT THE BUILDING AS DRAWN, OR AS DRAWN WITH INDICATED CHANGES REPRESENTS THE MATERIALS TO BE SUPPLIED BY MANUFACTURER.
E) ANY CHANGES NOTED ON THE DRAWINGS NOT IN CONFORMANCE WITH THE TERMS AND REQUIREMENTS OF THE CONTRACT BETWEEN MANUFACTURER AND ITS CUSTOMER ARE NOT BINDING ON MANUFACTURER UNLESS SUBSEQUENTLY SPECIFICALLY ACKNOWLEDGED AND AGREED TO IN WRITING BY CHANGE ORDER OR SEPARATE DOCUMENTATION. MANUFACTURER RECOGNIZES THAT RUBBER STAMPS ARE ROUTINELY USED FOR INDICATING APPROVAL, DISAPPROVAL, REJECTION, OR MERE REVIEW OF THE DRAWINGS SUBMITTED. HOWEVER, MANUFACTURER DOES NOT ACCEPT CHANGES OR ADDITIONS TO CONTRACTUAL TERMS AND CONDITIONS THAT MAY APPEAR WITH USE OF A STAMP OR SIMILAR INDICATION OF APPROVAL, DISAPPROVAL, ETC. SUCH LANGUAGE APPLIED TO MANUFACTURER'S DRAWINGS BY THE CUSTOMER, ARCHITECT, ENGINEER, OR ANY OTHER PARTY WILL BE CONSIDERED AS UNACCEPTABLE ALTERATIONS TO THESE DRAWINGS NOTES, AND WILL NOT ALTER THE CONTRACTUAL RIGHTS AND OBLIGATIONS EXISTING BETWEEN MANUFACTURER AND ITS CUSTOMER.

GENERAL NOTES

THE STRUCTURE UNDER THIS CONTRACT HAS BEEN DESIGNED AND DETAILED FOR THE LOADS AND CONDITIONS STIPULATED IN THE CONTRACT AND SHOWN ON THESE DRAWINGS. ANY ALTERATIONS TO THE STRUCTURAL SYSTEM OR REMOVAL OF ANY COMPONENT PARTS, OR ADDITIONS OF OTHER CONSTRUCTION MATERIALS OR LOADS MUST BE DONE UNDER THE ADVICE AND DIRECTION OF A REGISTERED ARCHITECT OR STRUCTURAL ENGINEER.
ESSEX STRUCTURAL STEEL WILL ASSUME NO RESPONSIBILITY FOR ANY LOADS NOT INDICATED.

THIS METAL BUILDING IS DESIGNED WITH ESSEX STRUCTURAL STEEL STANDARD PRACTICES WHICH ARE BASED ON PERTINENT PROCEDURES AND RECOMMENDATIONS OF THE FOLLOWING ORGANIZATIONS AND CODES.

1. AMERICAN INSTITUTE OF STEEL CONSTRUCTION: "SPECIFICATIONS FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL BUILDINGS"
2. AMERICAN IRON AND STEEL INSTITUTE: "SPECIFICATIONS FOR THE DESIGN OF COLD FORMED STEEL STRUCTURAL MEMBERS"
3. AMERICAN WELDING SOCIETY: "STRUCTURAL WELDING CODE" AWS D1.1.
4. METAL BUILDING MANUFACTURER'S ASSOCIATION: "LOW RISE BUILDING SYSTEMS MANUAL"

MATERIALS PROPERTIES OF STEEL PLATE USED IN THE FABRICATION OF PRIMARY RIGID FRAMES, AND OTHER PRIMARY STRUCTURAL EXCLUSIVE OF COLD-FORMED SECTION, CONFORM TO ASTM-A570 OR A-572 FLANGES WITH THICKNESS' OF ONE INCH OR LESS AND WIDTH OF 12" OR LESS CONFORM TO A-529 WITH YIELD POINT OF 55,000 PSI. FLANGES GREATER THAN 1" IN THICKNESS OR 12" IN WIDTH CONFORM TO A-572 WITH A MINIMUM YIELD POINT OF 55,000 PSI. WEB MATERIAL CONFORMS TO ASTM-A36 MODIFIED WITH A MINIMUM YIELD POINT OF 55,000 PSI.

MATERIALS PROPERTIES OF TUBE SECTIONS CONFORM TO ASTM-A53 TYPE E. GRADE B WITH A MINIMUM YIELD POINT OF 46,000 PSI.

MATERIAL PROPERTIES OF HOT ROLLED STEEL MEMBERS CONFORM TO THE REQUIREMENTS OF ASTM-A36 OR A572 WITH A MINIMUM YIELD POINT OF 50,000 PSI.

MATERIAL PROPERTIES OF COLD FORMED LIGHT GAGE STEEL MEMBERS CONFORM TO ASTM-A570 OR A607 GRADE 55 MODIFIED WITH A MINIMUM YIELD POINT OF 57,000 PSI.

MATERIAL PROPERTIES OF ROOF/WALL SHEETING, BASE METAL CONFORM TO ASTM-A792 GRADES D OR E WITH MINIMUM YIELD POINT OF 50,000 PSI. AND 80,000 PSI. RESPECTIVELY, AS REQUIRED BY DESIGN. COATING OF BASE MATERIAL IS 55% ALUMINUM ALLOY IN ACCORDANCE WITH AZ55 SPECIFICATIONS.

CABLE UTILIZED FOR BRACING MEMBER CONFORM TO ASTM-A475

ROD AND ANGLE UTILIZED FOR BRACING MEMBER CONFORM TO ASTM-A36

STRUCTURAL JOINTS WITH A.S.T.M. A325 HIGH STRENGTH BOLTS,WHERE INDICATED ON THE DRAWINGS, SHALL BE ASSEMBLED AND THE BOLTS TIGHTENED IN ACCORDANCE WITH "TURN OF NUT" METHOD AS DESCRIBED IN THE SPECIFICATIONS FOR STRUCTURAL JOINTS USING A.S.T.M. A-325 OR A-490 BOLTS (6-30-04). UNLESS OTHERWISE NOTED. ALL JOINTS WILL BE ASSEMBLED WITHOUT WASHERS UNLESS OTHERWISE NOTED.

ALL STEEL MEMBERS EXCEPT BOLTS, FASTENERS AND CABLE SHALL RECEIVE ONE SHOP COAT OF IRON OXIDE CORROSION INHIBITIVE PRIMER, MEETING THE PERFORMANCE REQUIREMENTS OF TTP-636. RED OXIDE PRIMER IS PROVIDED WITH EVERY JOB, SO ONLY TOUCH UP CAN BE MADE TO MATERIALS THAT MAY HAVE HAD PRO LONGED EXPOSURE.

DESIGN WIND CAPACITY FOR COMPONENT AND CLADDING FASTENING SHALL CONFORM TO ASCE 7 CHAP 6

SHOP AND FIELD INSPECTIONS AND ASSOCIATED FEES ARE THE RESPONSIBILITY OF THE CONTRACTOR, UNLESS STIPULATED OTHERWISE IN THE CONTRACT.

FOUNDATION DESIGN AND CONSTRUCTION ARE NOT THE RESPONSIBILITY OF ESSEX STRUCTURAL STEEL. THE BUILDING REACTION DATA REPORTS THE LOADS WHICH THIS BUILDING PLACES ON THE FOUNDATION. ANCHOR BOLTS (NOT BY ESSEX) SHALL BE ACCURATELY SET TO TOLERANCE OF +/- 1/8" IN BOTH ELEVATION AND LOCATION. COLUMN BASE PLATES ARE DESIGNED NOT TO EXCEED A BEARING PRESSURE OF 1125 POUNDS PRE SQUARE INCH.

SAFETY COMMITMENT

ESSEX STRUCTURAL STEEL HAS A COMMITMENT TO MANUFACTURE QUALITY BUILDING COMPONENTS THAT CAN BE SAFELY ERECTED. HOWEVER, THE SAFETY COMMITMENT AND THE JOB SITE PRACTICES OF THE ERECTOR ARE BEYOND THE CONTROL OF ESSEX STRUCTURAL STEEL.

IT IS STRONGLY RECOMMENDED THAT SAFE WORKING CONDITIONS AND ACCIDENT PREVENTION PRACTICES BE THE TOP PRIORITY OF ANY JOB SITE.

LOCAL, STATE AND FEDERAL SAFETY AND HEALTH STANDARDS SHOULD ALWAYS BE FOLLOWED TO HELP INSURE WORKER SAFETY.

MAKE CERTAIN ALL EMPLOYEES KNOW THE SAFEST AND MOST PRODUCTIVE WAY OF ERECTING A BUILDING. EMERGENCY PROCEDURES SHOULD BE KNOWN BY ALL EMPLOYEES.

DAILY MEETINGS HIGHLIGHTING, SAFETY PROCEDURES ARE ALSO RECOMMENDED. THE USE OF HARD HATS, RUBBER SOLE SHOES FOR ROOF WORK, PROPER EQUIPMENT FOR HANDLING MATERIALS, AND SAFETY NETS WHERE APPLICABLE, ARE RECOMMENDED.

UNLOADING, HANDLING & STORING MATERIAL

A CRANE AND/OR FORKLIFT IS NECESSARY FOR UNLOADING THE COMPONENTS OF A METAL BUILDING. CARE SHOULD BE ALWAYS BE TAKEN TO AVOID DAMAGING MATERIAL. LONG PANELS MAY BE DIFFICULT TO HANDLE BY LIFTING THE BUNDLE FROM UNDERNEATH.

ALWAYS SPREAD THE FORKS AS WIDE AS POSSIBLE TO PREVENT THE PANELS FROM BENDING. EVEN WITH THE FORKS AS WIDE AS POSSIBLE, IT STILL MAY BE NECESSARY TO LIFT CERTAIN LOADS WITH A CRANE AND SPREADER BAR TO AVOID DAMAGING MATERIAL.

STRUCTURAL

A GREAT AMOUNT OF TIME AND TROUBLE CAN BE SAVED IF THE BUILDING PARTS ARE UNLOADED AT THE SITE ACCORDING TO A PREARRANGED PLAN. PROPER LOCATION AND HANDLING OF COMPONENTS WILL ELIMINATE UNNECESSARY HANDLING.

INSPECT ALL SHIPMENTS PRIOR TO RELEASING THE TIE DOWNS FOR LOADS THAT MAY HAVE SHIFTED DURING TRANSIT! REMEMBER SAFETY FIRST!

BLOCKING UNDER THE COLUMNS AND RAFTERS PROTECTS THE SPLICE PLATES AND THE SLAB FROM DAMAGE DURING THE UNLOADING PROCESS. IT IS ALSO FACILITATES THE PLACING OF SLINGS OR CABLES AROUND THE MEMBER FOR LATER LIFTING AND ALLOWS MEMBER TO BE BOLTED TOGETHER INTO SUBASSEMBLIES WHILE ON THE GROUND. EXTRA CARE SHOULD ALWAYS BE EXERCISED IN THE UNLOADING OPERATION TO PREVENT INJURIES FROM HANDLING THE STEEL AND TO PREVENT DAMAGE TO MATERIALS AND THE CONCRETE SLAB.

IF WATER IS ALLOWED TO REMAIN FOR EXTENDED PERIODS IN BUNDLES OF PRIMED PARTS SUCH AS GRITS, PURLINS, ETC., THE PIGMENT WILL FADE AND THE PAINT WILL GRADUALLY SOFTEN REDUCING ITS BOND TO THE STEEL. THEREFORE, UPON RECEIPT OF A JOB, ALL BUNDLES OF PRIMED PARTS SHOULD BE STORED AT AN
ANGLE TO ALLOW TRAPPED WATER TO DRAIN AWAY AND PERMIT AIR CIRCULATION FOR DRYING. PUDDELES OF WATER SHOULD NOT BE ALLOWED TO COLLECT AND REMAIN ON COLUMNS OR RAFTERS FOR THE SAME REASONS.
ALL PRIMER SHOULD BE TOUCHED UP AS REQUIRED BEFORE ERECTION!!
PIECE MARKS ARE WRITTEN ON THE END PLATES OF THE STRUCTURAL MEMBERS.

WALL & ROOF PANELS

ESSEX BUILDINGS WALLS AND ROOF PANELS ARE COLOR COATED GALVALUME STEEL PROVIDING EXCELLENT SERVICE UNDER WIDELY VARIED CONDITIONS. ALL UNLOADING AND ERECTION PERSONNEL SHOULD FULLY UNDERSTAND THAT THESE PANELS ARE QUALITY MERCHANDISE WHICH MERIT CAUTIOUS CARE IN HANDLING.

UNDER NO CIRCUMSTANCES SHOULD PANELS BE HANDLED ROUGHLY. PACKAGES OF SHEETS SHOULD BE LIFTED OFF THE TRUCK WITH EXTREME CARE TAKEN TO INSURE THAT NO DAMAGE OCCURS TO ENDS OF THE SHEETS OR TO SIDE RIBS. THE PACKAGES SHOULD BE STORED OFF THE GROUND SUFFICIENTLY HIGH TO ALLOW AIR CIRCULATION UNDERNEATH THE PACKAGES. THIS AVOIDS GROUND MOISTURE AND DETERS PEOPLE FROM WALKING ON THE PACKAGES. ONE END SHOULD ALWAYS BE ELEVATED TO ENCOURAGE DRAINAGE IN CASE OF RAIN.

ALL STACKED METAL PANELS ARE SUBJECT, TO SAME DEGREE, TO LOCALIZED DISCOLORATION OR STAIN WHEN WATER IS TRAPPED BETWEEN THEIR CLOSELY NESTED SURFACES. ESSEX STRUCTURAL STEEL EXERCISES
EXTREME CAUTION DURING FABRICATION AND SHIPPING OPERATIONS TO INSURE THAT ALL PANEL STOCK IS KEPT DRY. HOWEVER, DUE TO CLIMATIC CONDITIONS, WATER FORMED BY CONDENSATION OF HUMID AIR CAN BECOME TRAPPED BETWEEN STACKED SHEETS. WATER CAN ALSO BE TRAPPED BETWEEN STACKED SHEETS WHEN EXPOSED TO RAIN. THIS DISCOLORATION CAUSED BY TRAPPED MOISTURE IS OFTEN CALLED WET STORAGE STAIN.

THE STAIN IS USUALLY SUPERFICIAL AND HAS LITTLE EFFECT ON THE APPEARANCE OR SERVICE LIFE OF THE PANEL AS LONG AS IT IS NOT PERMITTED TO REMAIN ON THE PANELS. HOWEVER, MOISTURE IN CONTACT WITH THE SURFACE OF THE PANELS OVER AN EXTENDED PERIOD CAN SEVERELY ATTACK THE FINISH AND REDUCE THE EFFECTIVE SERVICE LIFE. THEREFORE, IT IS IMPERATIVE THAT ALL PANELS BE INSPECTED FOR MOISTURE UPON RECEIPT OF ORDER.

IF MOISTURE IS PRESENT, DRY THE PANELS AT ONCE AND STORE IN A DRY, WARM PLACE.

CAUTION: CARE SHOULD BE TAKEN WHEN WALKING ON PANELS. USE SAFETY LINES AND NETS WHEN NECESSARY! PANELS ARE SLIPPERY. OIL OR WAX APPLIED TO THE ROOF AND WALL PANELS FOR PROTECTION AGAINST WEATHER DAMAGE WILL MAKE THEM A VERY SLIPPERY SURFACE. WIPE DRY ANY OIL THAT HAS PUDDLED FROM BUNDLES STORED ON A SLOPE. DEW, FROST OR OTHER FORMS OF MOISTURE GREATLY INCREASES THE SLIPPERINESS OF THE PANELS. ALWAYS ASSUME PANEL SURFACE IS SLIPPERY AND ACT ACCORDINGLY. THINK SAFETY!!

USE WOOD BLOCKING TO ELEVATE AND SLOPE THE PANELS IN A MANNER THAT WILL ALLOW MOISTURE TO DRAIN. WOOD BLOCKING PLACED BETWEEN BUNDLES WILL PROVIDE ADDITIONAL AIR CIRCULATION. COVER THE STACKED BUNDLES WITH A TARP OR PLASTIC COVER LEAVING ENOUGH OPENING AT BOTTOM FOR AIR TO CIRCULATE.

WHEN HANDLING OR UNCRATING THE PANELS, LIFT, RATHER THEN SLIDE THEM APART. BURRED EDGES MAY SCRATCH THE COATED SURFACES WHEN SHEETS ARE SLID OVER ONE ANOTHER. NEVER ALLOW PANELS TO WALKED ON WHILE ON THE GROUND.

NOTE!! USE GLOVES WHEN HANDLING METAL PANELS TO PREVENT HAND INJURIES. BE AWARE OF THE DANGERS OF HANDLING PANELS ON A WINDY DAY. A LARGE PANEL CAN CATCH ENOUGH WIND TO KNOCK A WORKER OFF HIS FEET, EVEN OF THE GROUND LEVEL!! SAFETY FIRST!

ABBREVIATIONS

A.F.F.	ABOVE FINISHED FLOOR
@	AT
APPROX	APPROXIMATE
COL	COLUMN
CONC	CONCRETE
CONT	CONTINUOUS
DIA	DIAMETER
EA	EACH
ELEV	ELEVATION
EXIST	EXISTING
F.O.	FRAMED OPENING
FRM	FRAME
GA	GAGE
GALV	GALVALUME
INSUL	INSULATION
MAX	MAXIMUM
MIN	MINIMUM
O.C.	ON CENTER
O.H.	OVERHEAD
REQ'D	REQUIRED
SWL	LEFT SIDEWALL
SWR	RIGHT SIDEWALL
TYP	TYPICAL
U.N.O.	UNLESS NOTED OTHERWISE

STATE OF MAINE
STEPHEN JON REIFENBERG
NO. 4763
LICENSED
PROFESSIONAL ENGINEER

Stephen Reifenberg
9/17/14

"PBR" PANELS

THE "PBR" PANELS ARE DESIGNED FOR ROOF APPLICATION, BUT MAY ON OCCASION BE INSTALLED ON THE WALL. THE PROFILE IS THE SAME AS THE "R" PANELS EXCEPT FOR THE ADDITION OF THE SUPPORT LEG ON THE LEADING EDGE ON ONE SIDE. ERECTION OF THIS PANEL REQUIRES THAT THE PROPER DIRECTION OF ITS APPLICATION BE ESTABLISHED. THE SUPPORT LEG ALLOWS FOR BETTER NESTING WITH THE OVERLAPPING RIB OF THE NEXT PANEL. THE INSTALLATION OF THE PANELS WOULD PROCEED FROM LEFT TO RIGHT.

DANGER! DO NOT STEP ON THE MAJOR RIBS OF THE PBR PANEL. ALWAYS FOLLOW ALL OSHA SAFETY RECOMMENDATIONS. SAFETY FIRST!!

"A" & "REVERSE RUN R-PANEL"

THESE PANELS ARE DESIGNED FOR WALL APPLICATION ONLY. THE INVERTED RIBS INCORPORATED INTO ITS DESIGN PRODUCE SMOOTH SHADOW LINES AND SEMI-CONCEALED FASTENERS. SHEETING CAN BEGIN FROM EITHER END OF THE BUILDING, AND APPLICATION OF THE ARCHITECTURAL PANEL IS NOT DIRECTIONAL. PROPERLY INSTALLED, THE TOP EDGES WILL HAVE MINIMUM VISIBILITY.

NOTE! THE PANELS ARE ADVERSELY AFFECTED BY AN UNEVEN GIRT LINE, AND/OR INSULATION THAT CAUSES AN UNEVEN GIRT LINE. EITHER SITUATION COULD CAUSE OIL CANNING IN THE PANELS.

THE DESIGN OF THE PANEL LAP ALLOWS FOR EDGES TO BE VISIBLE WHEN INSTALLED. EQUIPMENT LIMITATIONS AND MANUFACTURING TOLERANCES, AS OTHER FACTORS CAN CONTRIBUTE TO WAVINESS AT VISIBLE EDGES.

NOTE! DO NOT APPLY PRESSURE TO THE PAN OF PANELS DURING INSTALLATION, WHEN THE PRESSURE IS RELEASED "OIL CANNING" WILL OCCUR. SAFETY FIRST!

FASTENER INSTALLATION

CORRECT FASTENER INSTALLATION IS ONE OF THE MOST CRITICAL STEP WHEN INSTALLING ROOF PANELS. DRIVE THE FASTENER IN UNTIL IT IS TIGHT AND THE WASHER IS FIRMLY SEATED. DO NOT OVERDRIVE FASTENERS. A SLIGHT EXTRUSION OF NEOPRENE AROUND THE WASHER IS GOOD VISUAL TIGHTNESS CHECK.

ALWAYS USE THE PROPER TOOL TO INSTALL FASTENERS. A FASTENER DRIVER (SCREW GUN) WITH ON RPM OF 1700-2000 SHOULD BE USED FOR SELF TAPPING SCREWS. DISCARD WORN SOCKETS. THESE CAUSE THE FASTENER TO WADDLE DURING INSTALLATION.

THE DESIGN OF THE PANEL LAP ALLOWS FOR EDGES TO BE VISIBLE WHEN INSTALLED. EQUIPMENT LIMITATIONS AND MANUFACTURING TOLERANCES, AS OTHER FACTOR CAN CONTRIBUTE TO WAVINESS AT VISIBLE EDGE.

NOTE! ALWAYS REMOVE METAL FILLINGS FROM SURFACE OF PANELS AT THE END OF EACH WORK PERIOD. RUSTING FILLINGS CAN DESTROY THE PAINT FINISH AND VOID ANY WARRANTY.

MASTIC SEALANT

PROPER MASTIC APPLICATION IS CRITICAL TO WEATHER TIGHTNESS OF BUILDING. MASTIC SHOULD NOT BE STRETCHED WHEN INSTALLED. APPLY ONLY TO CLEAN, DRY SURFACES KEEP ONLY ENOUGH MASTIC ON THE ROOF THAT CAN BE INSTALLED IN A DAY. STORE THE REMAINING MASTIC IN A COOL DRY PLACE. AFTER MASTIC HAS BEEN APPLIED, KEEP PROTECTIVE PAPER IN PLACE UNTIL PANEL IS READY TO BE INSTALLED.

SEALING THE SIDE LAP

APPLY THE SIDE LAP TAPE SEALANT TO THE WEATHER SIDE EDGE OF THE LOWER PANELS MAJOR RIB. THE TAPE SEALANT SHOULD ONLY BE APPLIED TO CLEAN, DRY SURFACES WITH THE RELEASE PAPER IN PLACE, PRESS FIRMLY ALONG THE LENGTH OF THE SEALANT TO INSURE PROPER ADHESION. IN REMOVING THE PROTECTIVE PAPER FROM THE TAPE SEALANT, CARE SHOULD BE TAKEN NOT TO PULL THE TAPE SEALANT AWAY FROM THE PANEL. INSTALL THE ADJOINING PANEL POSITIONING THE OVERLAPPING RIB WITH CARE. DRILL AT THE CENTER OF THE CLEARANCE HOLES IN THE OVERLAPPING PANEL, STITCH THE LAP WITH THE NO. 14 SELF DRILLING FASTENERS SUPPLIED WITH THE JOB. NEVER ALLOW THE SEALANT TO BE PLACED IN OTHER LOCATIONS.

NOTE! USE OSHA APPROVED EYE PROTECTION WHEN OPERATING A DRILL. SWEEP UP ALL DRILL SHAVINGS FROM PANELS AT END OF EACH WORK PERIOD TO MINIMIZE SURFACE RUST AND DAMAGE TO PANEL FINISH. SAFETY FIRST!!

PANEL FASTENER LOCATIONS

NOTE:
1. TAPE SEALER REQUIRED AT PANEL SIDELAPS WHEN USED AS ROOF PANELS.
2. SIDELAP FASTENERS ARE REQUIRED AT 24" O.C. (14 X 3/4" LAPTEK SCREWS)

ERECTION REQUIRES MINOR ADJUSTMENTS

ESSEX STRUCTURAL STEEL CO., INC.
CORTLAND, NEW YORK 13045

REVISIONS	PROJECT:	CANAL LANDING 100 WEST COMMERCIAL STREET PORTLAND, MAINE 04101		
	CONTRACTOR:	IRISHSPAN INDUSTRIES		
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