GENERAL NOTES:

PART 1 GENERAL

1.01 GENERAL

A. NO PROVISIONS HAVE BEEN MADE FOR ANY TEMPORARY CONDITIONS THAT MAY ARISE DURING CONSTRUCTION PRIOR TO THE COMPLETION OF THE STRUCTURE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ADEQUATE DESIGN AND CONSTRUCTION OF ALL FORMS, SHORING AND TEMPORARY BRACING DURING THE PROGRESS OF THE PROJECT.

B. PRINCIPAL OPENINGS THROUGH THE FOUNDATION ARE NOT SHOWN ON THESE DRAWINGS. THE GENERAL CONTRACTOR SHALL EXAMINE THE DRAWINGS TO DETERMINE THE REQUIRED OPENINGS, AS HE SHALL PROVIDE FOR ALL OPENINGS AND SHALL VERIFY SIZE AND LOCATION OF ALL OPENINGS WITH OTHER PROJECT REQUIREMENTS. ANY DEVIATION FROM THE OPENINGS SHOWN ON THE STRUCTURAL DRAWINGS SHALL BE BROUGHT TO THE ENGINEER'S ATTENTION FOR APPROVAL.

C. ALTERNATE CONNECTION DETAILS MAY BE USED IF SUCH DETAILS ARE SUBMITTED TO THE STRUCTURAL ENGINEER FOR REVIEW AND ACCEPTANCE IS GRANTED. HOWEVER, THE STRUCTURAL ENGINEER SHALL BE THE SOLE JUDGE OF ACCEPTABILITY AND THE CONTRACTOR'S BID SHALL ANTICIPATE THE USE OF THOSE SPECIFIC DETAILS SHOWN ON THE DRAWINGS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DESIGN OF ANY ALTERNATE DETAILS, WHICH HE PROPOSES.

D. WORK NOT INDICATED ON A PART OF THE DRAWINGS, BUT REASONABLY IMPLIED TO BE SIMILAR TO THAT SHOWN AT CORRESPONDING PLACES SHALL BE INCLUDED.

E. THE CONTRACTOR SHALL BE COMPLETELY RESPONSIBLE FOR THE SAFETY OF ADJACENT STRUCTURES, PROPERTY, AND THE PUBLIC. THE CONTRACTOR SHALL COMPLY WITH ALL FEDERAL, STATE, AND LOCAL REQUIREMENTS.

F. ANY MODIFICATION OR ALTERATION OF THESE CONSTRUCTION DOCUMENTS OR CHANGES IN CONSTRUCTION FROM THE INTENT OF THESE DOCUMENTS BY THE CONTRACTOR WITHOUT WRITTEN APPROVAL OF THE ENGINEER SHALL REMOVE ALL PROFESSIONAL AND LIABLE RESPONSIBILITY ON THE PART OF THE ENGINEER.

G. ALL CONTRACTORS ARE REQUIRED TO EXAMINE THE DRAWINGS AND SPECIFICATIONS CAREFULLY, VISIT THE SITE AND FULLY INFORM THEMSELVES AS TO ALL EXISTING CONDITIONS AND LIMITATIONS, PRIOR TO SUBMITTING THE PROPOSAL. FAILURE TO VISIT THE SITE AND FAMILIARIZE THEMSELVES WITH THE EXISTING CONDITIONS AND LIMITATIONS WILL IN NO WAY RELIEVE THE SUCCESSFUL BIDDER FROM FURNISHING ANY MATERIALS OR PERFORMING ANY WORK IN ACCORDANCE WITH DRAWINGS AND SPECIFICATIONS WITHOUT ADDITIONAL COST TO THE OWNER.

H. DO NOT SCALE FROM DRAWINGS.

I. SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

J. CONTRACTOR TO VERIFY BUILDING DRAWING DIMENSIONS WITH MANUFACTURER BUILDING DRAWING DIMENSIONS AND/OR ARCHITECTURAL DRAWINGS.

COLD-FORMED STEEL NOTES

PART 1 – GENERAL

1.01 QUALITY ASSURANCE:

A. INSTALLER QUALIFICATIONS: AN EXPERIENCED INSTALLER WHO HAS COMPLETED COLD-FORMED METAL FRAMING SIMILAR IN MATERIAL, DESIGN, AND EXTENT TO THAT INDICATED FOR THIS PROJECT AND WHOSE WORK HAS RESULTED IN CONSTRUCTION WITH A RECORD OF SUCCESSFUL IN-SERVICE PERFORMANCE.

B. ENGINEERING RESPONSIBILITY: THE STRUCTURAL ENGINEER OF RECORD HAS NOT SIZED MEMBERS, DETAILED CONNECTIONS, AND SPECIFIED FASTENERS, THEREFORE A QUALIFIED PROFESSIONAL ENGINEER NEEDS TO PREPARE DESIGN CALCULATIONS, SHOP DRAWINGS, CONNECTION DETAILS, AND OTHER STRUCTURAL DATA.

1.02 PERFORMANCE REQUIREMENTS:

A. STRUCTURAL PERFORMANCE: PROVIDE COLD-FORMED METAL FRAMING MEMBERS, CONNECTORS, AND FASTENERS CAPABLE OF WITHSTANDING DESIGN LOADS WITHIN LIMITS AND UNDER CONDITIONS INDICATED.

1. DESIGN LOADS:
   AS INDICATED UNDER DESIGN LOADS.
2. DEFLECTION LIMITS:
   DESIGN FRAMING SYSTEMS TO WITHSTAND DESIGN LOADS WITHOUT DEFLECTION GREATER THAN THE FOLLOWING:
   A. INTERIOR NON-LOAD-BEARING WALL FRAMING:
      HORIZONTAL DEFLECTION OF L/240 OF THE WALL HEIGHT.
   B. EXTERIOR NON-LOAD-BEARING WALL FRAMING:
      HORIZONTAL DEFLECTION OF L/600 OF THE WALL HEIGHT WHICH SUPPORT A BRICK VENEER.
      HORIZONTAL DEFLECTION OF L/240 OF THE WALL HEIGHT OTHERWISE.
   C. ROOF TRUSSES: VERTICAL DEFLECTION OF L/360 OF THE SPAN.
3. DESIGN FRAMING SYSTEMS TO PROVIDE FOR MOVEMENT OF FRAMING MEMBERS WITHOUT DAMAGE OR OVERSTRESSING, SHEATHING FAILURE, CONNECTION FAILURE, UNDUE STRAIN ON FASTENERS AND ANCHORS, OR OTHER DETRIMENTAL EFFECTS WHEN SUBJECT TO A MAXIMUM AMBIENT TEMPERATURE CHANGE OF 120 DEG F (67 DEG C).
4. DESIGN FRAMING SYSTEM TO MAINTAIN CLEARANCES AT OPENINGS, TO ALLOW FOR CONSTRUCTION TOLERANCES, AND TO ACCOMMODATE LIVE LOAD DEFLECTION OF PRIMARY BUILDING STRUCTURE AS FOLLOWS:
   A. UPWARD AND DOWNWARD MOVEMENT OF 1/2 INCH.
   B. DESIGN EXTERIOR NON-LOAD-BEARING CURTAIN-WALL FRAMING TO ACCOMMODATE HORIZONTAL DEFLECTION WITHOUT REGARD FOR CONTRIBUTION OF SHEATHING MATERIALS.
5. DESIGN ROOF TRUSSES ACCORDING TO AISI's "DESIGN GUIDE FOR COLD-FORMED STEEL TRUSSES"

1.03 SUBMITTALS:

A. PRODUCT DATA: FOR EACH TYPE OF COLD-FORMED METAL FRAMING PRODUCT AND ACCESSORY INDICATED.

B. SHOP DRAWINGS: SHOW LAYOUT, SPACING, SIZES, THICKNESS, AND TYPES OF COLD-FORMED METAL FRAMING; FABRICATION; AND FASTENING AND ANCHORAGE DETAILS, INCLUDING MECHANICAL FASTENERS. SHOW REINFORCING CHANNELS, OPENING FRAMING, SUPPLEMENTAL FRAMING, STRAPPING, BRACING, BRIDGING, SPLICES, ACCESSORIES, CONNECTION DETAILS, AND ATTACHMENT TO ADJOINING WORK.

PART 2 – PRODUCTS

2.01 MANUFACTURERS:

A. AVAILABLE MANUFACTURERS WILL BE SUBJECT TO COMPLYING WITH THE REQUIREMENTS OF THIS SPECIFICATION.

2.02 MATERIALS:

A. STEEL SHEET: ASTM A 653/A 653M, STRUCTURAL STEEL, ZINC COATED, OF GRADE AND COATING AS FOLLOWS:

1. FRAMING:
   A. GRADE: AS REQUIRED BY STRUCTURAL PERFORMANCE.
   B. COATING: G90 (Z275).
2. CONNECTORS
   A. GRADE: 50, CLASS 1.
   B. COATING: G90 (Z275).

2.03 NON-LOAD-BEARING CURTAIN-WALL FRAMING:

A. STEEL STUDS: MANUFACTURER'S STANDARD C-SHAPED STEEL STUDS, OF WEB DEPTHS INDICATED, PUNCHED, WITH STIFFENED FLANGES, COMPLYING WITH ASTM C 955.

B. STEEL TRACK: MANUFACTURER'S STANDARD U-SHAPED STEEL TRACK, OF WEB DEPTHS INDICATED, UNPUNCHED, WITH UNSTIFFENED FLANGES, COMPLYING WITH ASTM C 955.

C. VERTICAL DEFLECTION CLIPS: MANUFACTURER'S STANDARD CLIPS, CAPABLE OF ISOLATING WALL STUD FROM UPWARD AND DOWNWARD VERTICAL DISPLACEMENT OF PRIMARY STRUCTURE USING MECHANICAL FASTENERS.

D. DRIFT CLIPS: MANUFACTURER'S STANDARD CLIPS, CAPABLE OF ISOLATING WALL STUD FROM UPWARD AND DOWNWARD VERTICAL DISPLACEMENT AND LATERAL DRIFT OF PRIMARY STRUCTURE USING MECHANICAL FASTENERS.

2.04 ROOF TRUSSES

A. ROOF TRUSS MEMBERS: MANUFACTURER'S STANDARD C-SHAPED STEEL SECTIONS, OF WEB DEPTHS INDICATED, UNPUNCHED, WITH STIFFENED FLANGES, COMPLYING WITH ASTM C 955.

2.05 ANCHORS AND FASTENERS:

A. STEEL SHAPES AND CLIPS: ASTM A 36.

B. ANCHOR BOLTS: POWDER ACTUATED FASTENERS

C. MECHANICAL FASTENERS: CORROSION, SELF DRILLING, SELF-THREADING STEEL DRILL SCREWS.

1. HEAD TYPE: LOW-PROFILE HEAD BENEATH SHEATHING, MANUFACTURER'S STANDARD ELSEWHERE.

D. WELDING ELECTRODES: COMPLY WITH AWS STANDARDS.

PART 3 – EXECUTION

3.01 DELIVERY, STORAGE, AND HANDLING:

A. PROTECT COLD-FORMED METAL FRAMING FROM CORROSION, DEFORMATION, AND OTHER DAMAGE DURING DELIVERY, STORAGE, AND HANDLING.

B. STORE COLD-FORMED METAL FRAMING, PROTECT WITH A WATERPROOF COVERING, AND VENTILATE TO AVOID CONDENSATION.

3.02 EXAMINATION:

A. EXAMINE SUPPORTING SUBSTRATES AND ABUTTING STRUCTURAL FRAMING FOR COMPLIANCE WITH REQUIREMENTS FOR INSTALLATION TOLERANCES AND OTHER CONDITIONS AFFECTING PERFORMANCE. PROCEED WITH INSTALLATION ONLY AFTER UNSATISFACTORY CONDITIONS HAVE BEEN CORRECTED.

3.03 INSTALLATION, GENERAL:

A. COLD-FORMED METAL FRAMING MAY BE SHOP OR FIELD FABRICATED FOR INSTALLATION, OR IT MAY BE FIELD ASSEMBLED.

B. INSTALL COLD-FORMED METAL FRAMING ACCORDING TO ASTM C 1007, UNLESS MORE STRINGENT REQUIREMENTS ARE INDICATED.

C. INSTALL COLD-FORMED METAL FRAMING AND ACCESSORIES PLUMB, SQUARE, AND TRUE TO LINE, AND WITH CONNECTIONS SECURELY FASTENED, ACCORDING TO MANUFACTURER'S WRITTEN RECOMMENDATIONS AND REQUIREMENTS IN THIS SECTION.

1. CUT FRAMING MEMBERS BY SAWING OR SHEARING; DO NOT TORCH CUT.
2. FASTEN COLD-FORMED METAL FRAMING MEMBERS BY WELDING OR SCREW FASTENING, AS STANDARD WITH FABRICATOR. WIRE TYING OF FRAMING MEMBERS IS NOT PERMITTED.

D. COMPLY WITH AWS D1.3 REQUIREMENTS AND PROCEDURES FOR WELDING, APPEARANCE AND QUALITY OF WELDS, AND METHODS USED IN CORRECTING WELDING WORK.

E. LOCATE MECHANICAL FASTENERS AND INSTALL ACCORDING TO SHOP DRAWINGS, WITH SCREW PENETRATING JOINED MEMBERS BY NOT LESS THAN THREE EXPOSED SCREW THREADS.

F. INSTALL FRAMING MEMBERS IN ONE-PIECE LENGTHS, UNLESS SPLICE CONNECTIONS ARE INDICATED FOR TRACK OR TENSION MEMBERS.

WOOD NOTES:

PART 1 – GENERAL

1.01 STANDARD SPECIFICATIONS

A. THE CURRENT AITC SPECIFICATION SHALL APPLY.

PART 2 – PRODUCTS

2.01 MATERIAL

A. ALL TIMBER IN CONTACT WITH MASONRY AND CONCRETE OR FRAMING LABELED "P.T." SHALL BE PRESSURE TREATED SOUTHERN PINE GRADE #1 WITH A MINIMUM Fb OF 1,350 PSI AND E OF 1,500 KSI OR BETTER.

B. CUT ENDS OF PRESSURE TREATED (P.T.) LUMBER AND TIMBER POSTS AND SILLS SHALL BE DIPPED IN A PRESERVATIVE TO COMPLY WITH AWPA M4.

C. ALL TYPICAL FRAMING TIMBER IS TO BE SPRUCE-PINE-FIR GRADE #2 WITH A MINIMUM Fb OF 750 PSI AND E OF 1,100 KSI OR BETTER.

D. ALL FRAMING TIMBER LABELED "LVL" SHALL BE BOISE CASCADE LAMINATED VENEER LUMBER WITH A Fb OF 2800 PSI AND E OF 2,000 KSI OR BETTER.

E. ALL FRAMING LABELED "BCI" SHALL BE BOISE CASCADE "EASTERN ENGINEERED WOOD PRODUCTS" WITH DESIGN PROPERTIES EQUAL OR BETTER THEN THE SPECIFIED MODEL PROPERTIES.

F. ALL FRAMING LABELED "WP PSL" SHALL BE WOLMANIZED PARALLAM PSL SERVICE LEVEL 2 BY TRUSJOIST WITH A Fb OF 2088 PSI AND E OF 1740 KSI OR BETTER.

G. ALL METAL TIMBER CONNECTORS INDICATED ON THE DRAWINGS SHALL BE HOT-DIPPED GALVANIZED.

H. ALL BOLTS, NUTS, AND WASHERS ARE TO BE ASTM A307, HOT-DIPPED GALVANIZED.

I. ALL NAILS ARE COMMON WIRE, EXCEPT FOR PLYWOOD SHEATHING (BARBED), GALVANIZED FOR EXPOSED FRAMING. STAINLESS STEEL NAILS REQUIRED FOR SIDING AND TRIM.

J. REFERENCE TO "SIMPSON" ON DRAWINGS INDICATES METAL CONNECTORS MANUFACTURED BY SIMPSON STRONG-TIE.

K. FASTENERS: COMPLY WITH RECOMMENDED FASTENING SCHEDULE OF THE IBC 2003 BUILDING CODE, UNLESS SHOWN OTHERWISE ON THE DRAWINGS.

L. FASTENER REQUIREMENTS FOR ROOF AND FLOOR SHEATHING. PROVIDE 8d RINGSHANKG NAILS AS FOLLOWS, UNLESS SHOWN OTHERWISE: 6" O.C. ALONG ALL PANEL EDGES, 12" O.C. ALONG INTERMEDIATE MEMBERS.

M. FASTENER REQUIREMENTS FOR EXTERIOR WOOD SHEARWALLS. PROVIDE 8D RINGSHANKG NAILS AS FOLLOWS, UNLESS SHOWN OTHERWISE: 4" O.C. ALONG ALL PANEL EDGES, 12" O.C. ALONG INTERMEDIATE MEMBERS.

N. ALL NAILS TO SIMPSON PRODUCTS AND P.T. LUMBER TOT BE G90 HOT DIP GALVANIZED 0.162ø COMMON BOX NAILS, OR AS RECOMMENDED BY SIMPSON.

O. ALL SIMPSON PRODUCTS IN CONTACT WITH P.T. LUMBER TO BE "ZMAX" (G185 GALVANIZED) COATED

P. TRIPLE LVLS TO BE CONNECTED WITH (2) ROWS SIMPSON 1/4x4 1/2 SDS SCREWS 8" O.C. STAGGERED, EACH FACE

Q. QUAD LVLS TO BE CONNECTED WITH (2) ROWS 1/2"ø THROUGH BOLTS @ 8" O.C. STAGGERED, EACH FACE

PART 3 – EXECUTION

3.01 ERECTION

A. PROVIDE SAME SIZE SOLID BRIDGING/BLOCKING AT MID SPAN FOR ALL JOISTS.

B. FOR EXTERIOR WALLS (2X6) PROVIDE:
   1. 3-2X6'S AT CORNERS
   2. DOUBLE PLATE WITH 4' MIN. SPLICE SEPARATION. ALL SPLICES SHALL OCCUR OVER STUDS.

C. AT LOCATIONS WHERE PORTIONS OF WOOD FLOOR OR ROOF DECK ARE ADDED OR REPLACED, THE FINISH FLOOR ELEVATION OF THE NEW WOOD DECK SHALL MATCH THE ADJACENT EXISTING WOOD DECK.

D. PLYWOOD FOR FLOORS AND ROOF SHALL BE INSTALLED WITH BOTH ADHESIVE AND 10D NAILS AT 6" O.C. AT SUPPORTED EDGES AND 12" O.C. ELSEWHERE.

E. FLOOR FRAMING AROUND CHASE OPENINGS FOR MECHANICAL DUCTS SHALL CONSIST OF THE FOLLOWING:
   A. DOUBLE FLOOR-LENGTH JOISTS EACH SIDE OF OPENING WITH JOIST DEPTH SAME AS ADJACENT FLOOR FRAMING.
   B. MEMBERS CONNECTED WITH SIMPSON DOUBLE JOIST HANGERS.

DESIGN LOADING

PART 1 – LOADING

1.01 DEAD LOAD
   A. PLATFORMS = 15 PSF

1.02 LIVE LOAD
   A. PLATFORMS = 125 PSF

STATE OF MAINE
BENJAMIN E. MURRAY
NO. 10128
LICENSED PROFESSIONAL ENGINEER

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NO.	REVISIONS	DATE

SHEET TITLE: NOTES

SCALE:

DRAWN BY: JPK
CHECKED BY: BEM

DATE: JUNE 25, 2014

CLIENT & PROJECT: GET AIR PORTLAND FITUP PLAN

LOCATION: 921 RIVERSIDE STREET

TOWN: PORTLAND COUNTY: CUMBERLAND STATE: MAINE

PROJ. NO. 2014-112

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