# GENERAL NOTES:

**GENERAL:** ALL NOTES ARE FOR SUPPLEMENTING THE PLANS AND SPECIFICATIONS AND ARE IN NO WAY TO BE CONSIDERED AS EXCLUDING ANY ITEM IN THEM.

**COORDINATION:** IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE THE STRUCTURAL DRAWINGS AND THEIR DIMENSIONS WITH OTHER DRAWINGS AND IF A CONFLICT EXISTS HE SHALL NOT CARRY OUT THE AFFECTED WORK UNTIL THE ARCHITECT HAS RESOLVED THE CONFLICT.

**CODE:** DESIGN AND CONSTRUCTION TO BE IN ACCORD WITH THE IBC 2003 CODE AND THE PARTICULAR CODES AS REFERENCED IN IBC 2003 BLDG CODE OR IN ACCORDANCE WITH THE ASCE 7-02.

**LIVE LOADS:** THE STRUCTURE HAS BEEN DESIGNED FOR LIVE LOADS AS FOLLOWS:

ROOF LOAD: 30 PSF

BUILDING CATEGORY: II
EXPOSURE CATEGORY: B

WIND:
3-SEC GUST SPEED: 90 MPH
IMPORTANCE FACTOR (Iw): 1.0
MEAN ROOF HT: 36 FT
HT. ADJUST. FACTOR: 1.0

SNOW:
GROUND SNOW (Pg): 25 PSF
EXPOSURE FACTOR (Ce): 1.0
IMPORTANCE FACTOR (Is): 1.0
THERMAL FACTOR (Ct): 1.0
ROOF SNOW (Pf): 20 PSF

**CONSTRUCTION SAFETY:** LOADS GREATER THAN THE APPLICABLE DESIGN LOADS SHALL NOT BE PLACED ON THE STRUCTURE. PROVISION SHALL BE MADE FOR ADEQUATE BRACING AND SUPPORT OF ADJACENT CONSTRUCTION, UTILITIES AND EXCAVATIONS. JOB SITE SAFETY AND CONSTRUCTION PROCEDURES ARE THE RESPONSIBILITY OF THE CONTRACTOR.

**MECHANICAL OPENINGS:** OPENINGS THROUGH MASONRY AND/OR CONCRETE WALLS FOR MECHANICAL EQUIPMENT, DUCTS, PIPES, ETC., ARE TO BE PROVIDED WITH LINTELS OR STEEL SLEEVES WHICH HAVE BEEN BUILT INTO THE WALL. SPECIFIC APPROVAL WILL BE REQUIRED FOR OPENINGS NOT SHOWN ON THE STRUCTURAL DRAWINGS THROUGH BEARING WALLS AND ANY COMPLETED WALL.

ALL OPENINGS GREATER THAN 4" THRU ROOF DECK SHALL BE FRAMED USING A MINIMUM OF L4"x4"x1/4" ANGLE WELDED TO JOIST OR BEAM STRUCTURE.

**STRUCTURAL STEEL:** ALL STRUCTURAL STEEL SHALL BE DETAILED, FABRICATED AND ERECTED IN ACCORDANCE WITH THE LATEST EDITION OF THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION (A.I.S.C.) "SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS", AND THE AISC CODE OF STANDARD PRACTICE.

STRUCTURAL STEEL, TO BE OF DOMESTIC ORIGIN, AND CONFORM TO:
PLATES, ANGLES, & CHANNELS: ASTM A36
HSS SQUARE/RECTANGULAR: ASTM A500, GRADE B, Fy=46 ksi

ALL SHOP AND FIELD CONNECTIONS SHALL BE MADE WITH HIGH STRENGTH BOLTS, ASTM A325 (OR WELDED EQUIVALENT) UNLESS OTHERWISE NOTED. SELECT CONNECTIONS TO SUPPORT 50% OF THE TOTAL UNIFORM LOAD CAPACITY IN BENDING FOR EACH GIVEN BEAM AND SPAN. BOLTING TO BE IN ACCORDANCE WITH RCSC SPECIFICATIONS.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING SIGNED AND SEALED SHOP DRAWINGS IF THEY ARE REQUIRED BY THE GOVERNING BUILDING DEPARTMENT. THE SUPPLIER OF THE STRUCTURAL STEEL SHALL BE RESPONSIBLE FOR THE DESIGN OF ALL STANDARD CONNECTIONS. CONNECTIONS OTHER THAN STANDARD WILL BE DETAILED ON THE STRUCTURAL DRAWINGS.

ALL BEAMS BEARING IN MASONRY OR CONCRETE TO HAVE STANDARD ANGLE ANCHORS AND MINIMUM 3/8"x7-1/2"x8" BEARING PLATES.

THE GENERAL CONTRACTOR SHALL NOTIFY THE STRUCTURAL ENGINEER OF ANY FABRICATION AND ERECTION ERRORS OR DEVIATIONS TO RECEIVE WRITTEN APPROVAL BEFORE ANY FIELD CORRECTIONS ARE MADE.

**STEEL JOISTS:** THE DETAILING, FABRICATION AND ERECTION TO CONFORM TO THE LATEST STANDARD SPECIFICATIONS OF THE STEEL JOIST INSTITUTE (S.J.I.). ONLY JOISTS WITH STEEL OF DOMESTIC ORIGIN AND MANUFACTURED IN ACCORDANCE WITH THE STANDARDS OF S.J.I. WILL BE ACCEPTED. BRIDGING SHALL BE WELDED OR BOLTED. ALL SUPPORTED UNITS OR EQUIPMENT SHALL BE DIRECTLY SUPPORTED FROM THE TOP CHORDS OF JOISTS. FOR K SERIES JOISTS, MAXIMUM ALLOWABLE TENSILE STRENGTH - 30,000 PSI.

THE FOLLOWING ITEMS MAY BE SUPPORTED BY CONNECTIONS TO THE BOTTOM CHORD PANEL POINTS - SHEET METAL OR FIBERGLASS DUCTS WITH A MAXIMUM CROSS SECTIONAL AREA OF 144 SQUARE INCHES (ONE DUCT PER PANEL), 2" MAXIMUM DIAMETER COPPER TUBING (2 TUBES PER PANEL), 2" MAXIMUM DIAMETER STEEL PIPE (1 PIPE PER PANEL).

SPECIAL JOISTS (SP, JST.) WHERE INDICATED ON PLANS TO HAVE BOTTOM CHORDS EXTENDED AND CONNECTED AT SUPPORTS FOR STABILITY ONLY. THE BOTTOM CHORD SECTION OF SP, JST. SHALL BE DESIGNED FOR 1000 POUNDS OF AXIAL LOAD AND WELDED AFTER ALL DEAD LOAD IS IN PLACE.

ALL JOISTS BEARING IN/ON MASONRY OR CONCRETE SHALL HAVE MINIMUM 1/2"x4"x6" BEARING PLATES FOR K SERIES JOISTS; MINIMUM 1/2"x6"x10" BEARING PLATES FOR LONG SPAN JOISTS; AND MINIMUM 3/4"x6"x10" BEARING PLATES FOR JOIST GIRDERS.

BEARING PLATE LOCATIONS SHALL BE SET BY "FIELD USE" JOIST ERECTION DRAWINGS UNLESS NOTED OTHERWISE ON PLANS.

**WELDING:** ALL WELDING TO BE IN ACCORDANCE WITH THE STANDARDS AND SPECIFICATIONS OF THE AMERICAN WELDING SOCIETY (A.W.S.) AND AS INDICATED ON THE STRUCTURAL DRAWINGS. WELDING ELECTRODES, WELDING PROCESS, MINIMUM PREHEAT AND INTERPASS TEMPERATURES TO BE IN ACCORDANCE WITH THE A.I.S.C. SPECIFICATIONS. ANY STRUCTURAL STEEL DAMAGED IN WELDING TO BE REPLACED OR ACCEPTABLY REINFORCED.

**ROOF DECK:** TO BE 1-1/2" DEEP 22 GAUGE STEEL WITH RIBS SPACED AT 6" O.C. WITH THE FOLLOWING MINIMUM PROPERTY: MOMENT OF INERTIA= 0.169 INCHES 4/FT. 2) THE SHEET STEEL SHALL HAVE RECEIVED PRIME PAINT, SHOP APPLIED OVER CLEANED AND PHOSPHATED STEEL. DECK UNITS SHALL BE OF SUFFICIENT LENGTH TO SPAN OVER SUPPORTS. FASTEN TO SUPPORTING STEEL WITH FUSION WELDS.

**SHOP DRAWINGS:** FOR ALL STEEL STRUCTURAL ITEMS THAT ARE PART OF THIS PROJECT AND MUST BE REVIEWED BY THE STRUCTURAL ENGINEER.

PARTIAL SUBMISSIONS OF SHOP DRAWINGS FOR REVIEW MUST BE PRE-APPROVED BY THE STRUCTURAL ENGINEER.

INCOMPLETE OR SHOP DRAWINGS WHICH HAVE NOT BEEN CHECKED BY THE DETAILER, STRUCTURAL STEEL SUPPLIER, AND CONTRACTOR WILL NOT BE REVIEWED BY THE STRUCTURAL ENGINEER.

NUMEROUS DIMENSIONAL ERRORS, LACK OF CONNECTION COORDINATION, AND MISSING MEMBER FABRICATION DETAILING ARE CONSIDERED PROOF THAT THE SHOP DRAWING HAVE NOT BEEN CHECKED OR ARE INCOMPLETE.

THE CONTRACTOR SHALL REVIEW ALL SHOP DRAWINGS FOR CONFORMANCE WITH THE STRUCTURAL/ARCHITECTURAL DRAWINGS BEFORE SUBMISSION TO THE STRUCTURAL ENGINEER.

ANY DEVIATIONS FROM THE CONTRACT STRUCTURAL/ARCHITECTURAL DRAWINGS SHALL BE INDICATED IN RED ON THE SHOP DRAWINGS BY THE CONTRACTOR.

ONLY SHOP DRAWINGS SIGNED AND DATED BY THE CONTRACTOR WILL BE REVIEWED BY THE STRUCTURAL ENGINEER.

THE STRUCTURAL ENGINEER WILL PROCESS A MAXIMUM OF 5 SETS OF SHOP DRAWINGS PER SUBMISSION.

THE STRUCTURAL ENGINEER SHALL HAVE 12 WORKING DAYS TO PERFORM THE SHOP DRAWING REVIEW.

CONTRACT DOCUMENTS MAY NOT BE REPRODUCED FOR USE AS SHOP DRAWINGS WITHOUT A WRITTEN AGREEMENT BETWEEN THE GENERAL CONTRACTOR AND THE ENGINEER OF RECORD.

A USE AND ROYALTY FEE WILL BE ASSESSED PER EACH SHEET OR ELECTRONIC FILE, AND MUST BE PAID IN FULL PRIOR TO THE ENGINEER RELEASING THE SHOP DRAWINGS.

**STEEL INSPECTION:** STRUCTURAL STEEL SHALL BE INSPECTED, BOTH IN SHOP AND IN FIELD, BY A QUALIFIED INSPECTION AGENCY APPROVED BY THE STRUCTURAL ENGINEER. WRITTEN INSPECTION REPORTS SHALL BE FILED WITH THE STRUCTURAL ENGINEER WITHIN 5 WORKING DAYS OF THE ACTUAL INSPECTION. INSPECTORS SHALL BE NOTIFIED OF ALL PHASES OF STRUCTURAL STEEL CONSTRUCTION AND WELDING BY THE GENERAL CONTRACTOR.

STRUCTURAL TESTS AND SPECIAL INSPECTIONS: AN INDEPENDENT TESTING AND INSPECTION AGENCY SHALL INSPECT, MONITOR AND/OR TEST THE FOLLOWING IN ACCORDANCE WITH THE MOST STRINGENT REQUIREMENTS OF THE LOCAL JURISDICTION, IBC, TENANT REQUIREMENTS, CONTRACT DOCUMENTS, AND APPROVED SHOP DRAWINGS. THE TESTING AND INSPECTION AGENCY WILL BE PAID BY THE OWNER. REPORTS OF INSPECTIONS SHALL BE SUBMITTED TO THE ARCHITECT, ENGINEER, AND BUILDING OFFICIAL.

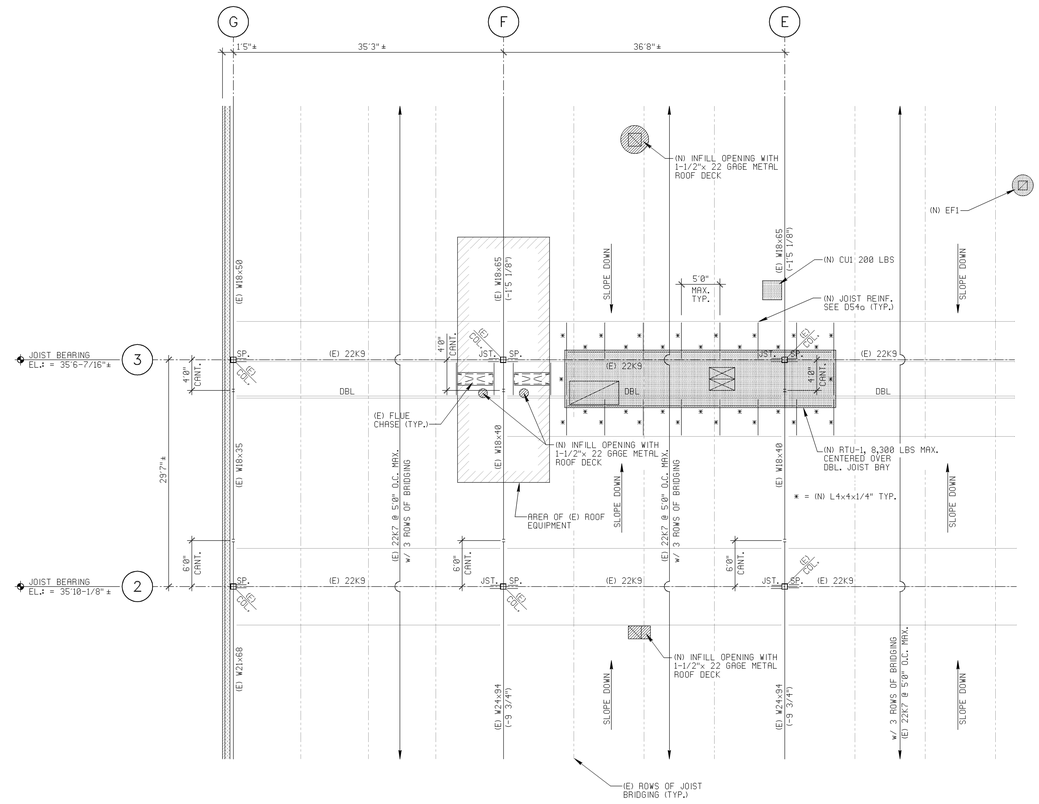
CONSTRUCTION CONSIDERED NON-COMPLIANT SHALL BE REMOVED AND REPLACED.

TESTING AND INSPECTION SHALL BE UNDER THE DIRECTION OF AN ENGINEER LICENSED TO PRACTICE IN THIS LOCAL JURISDICTION.

REPORTS SHALL BE SUBMITTED TO THE ENGINEER OF RECORD IN A TIMELY MANNER, UNDER THE LICENSURE SEAL AND SIGNATURE OF THE INSPECTION ENGINEER.

STRUCTURAL STEEL
VERIFICATION AND INSPECTION OF STRUCTURAL STEEL IN ACCORDANCE WITH TABLE 1704.3 OF IBC. VERIFY WELDING MATERIALS, WELDING PROCEDURES AND QUALIFICATIONS OF WELDERS IN ACCORDANCE WITH AWS D1.1 PRIOR TO START OF FABRICATION. INSPECT MATERIALS FOR STRUCTURAL STEEL, HIGH STRENGTH STEEL BOLTS, NUTS AND WASHERS, AND WELD FILLER MATERIALS. INSPECT INSTALLATION OF HIGH STRENGTH BOLTS IN ACCORDANCE WITH RISC SPECIFICATIONS. INSPECT JOINT FIT-UP PRIOR TO WELDING. INSPECT ALL JOINTS AND CONNECTIONS. INSPECT SHEAR STUDS FOR COMPOSITE CONSTRUCTION.

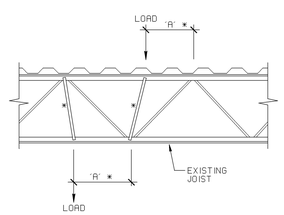
STEEL JOISTS
INSPECT TYPE, SIZE, POSITION, AND CONNECTIONS.




## EXIST. ROOF FRAMING PLAN

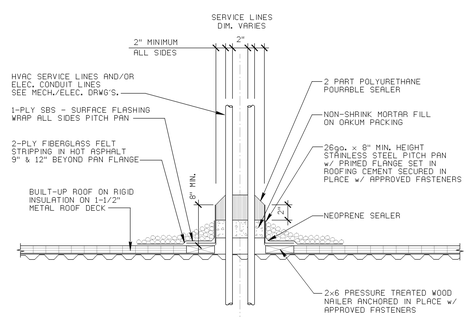
SCALE: 1/8"=1'0"

1. LIVE LOAD = 30psf.
2. EXISTING ROOF CONSTRUCTION CONSISTS OF 3 SPAN CONTINOUS 1-1/2" x 22 GAGE METAL DECK.
3. SEE D57a FOR ROOF OPENINGS AT EQUIPMENT WEIGHING LESS THAN 350 LBS.

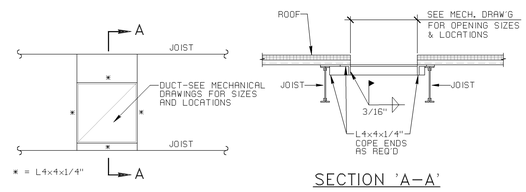



*NOTE:
IF DIMENSION 'A' EXCEEDS 3", REINFORCE JOIST AS SHOWN BY WELDING L1-1/4x1-1/4x1/8" OR 3/4"DIA. ROD TO EACH SIDE OF JOIST.

D54a DET TYPICAL JOIST REINFORCING DETAIL

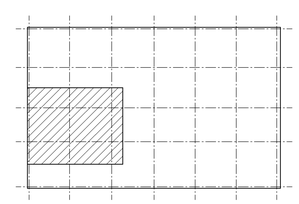



D56 DET EQUIPMENT CONDUIT PITCH POCKET




SECTION 'A-A'

D57a DET TYPICAL FRAMING @ OPENINGS THRU ROOF



KEY PLAN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| REVISIONS | | |
|---|---|---|
| NO. | DATE | DESCRIPTION |

| REVISIONS | | |
|---|---|---|
| NO. | DATE | DESCRIPTION |
| | 3.30.10 | FOR PERMIT |

LOCATION:
2001 Commerce Park Drive, Suite F
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CLIENT:
Administrative Office of the Courts
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Annapolis MD

PROJECT:
TENAT FIT OUT

SEAL:

Professional Certification
I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland. License number 12658 expiration date 10/11/2011

DRAWING TITLE:
PARTIAL ROOF FRAMING PLAN, SECTIONS, DETAILS & NOTES


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| ROXANNE McKAGAN<br>MANAGER, ADMINISTRATIVE SERVICES | |

PROJECT #: 09031-00

DATE: 01.19.2010

DRAWING NO. S1

Plot Date: 03-29-2010 Time: 14:12:00