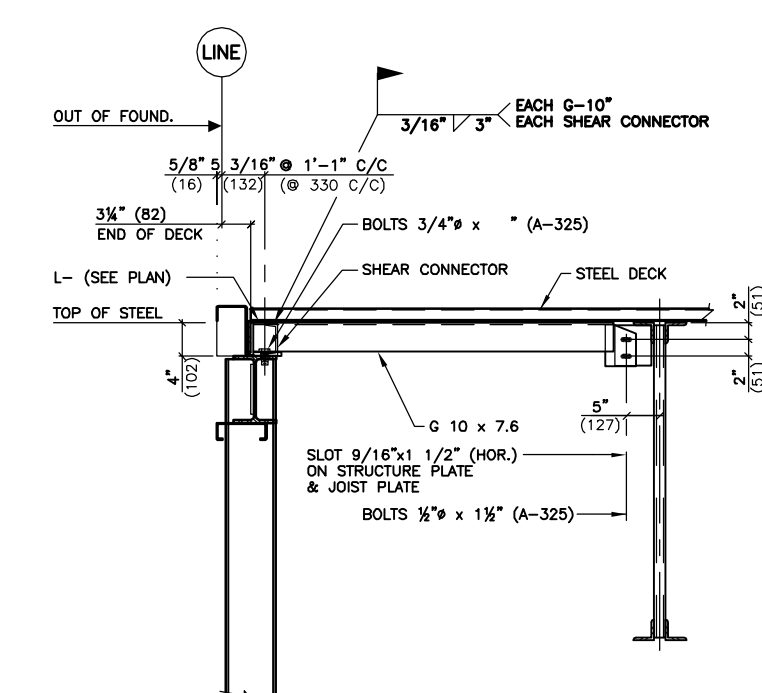
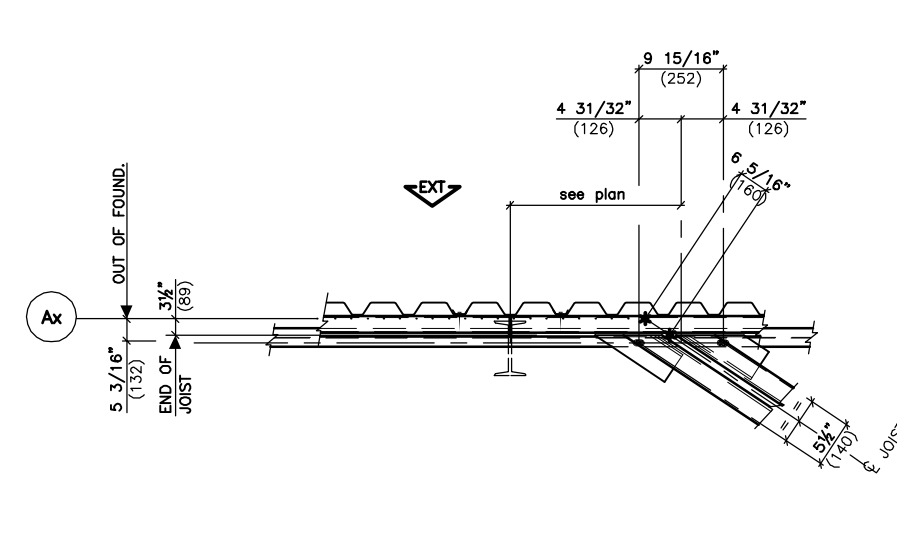


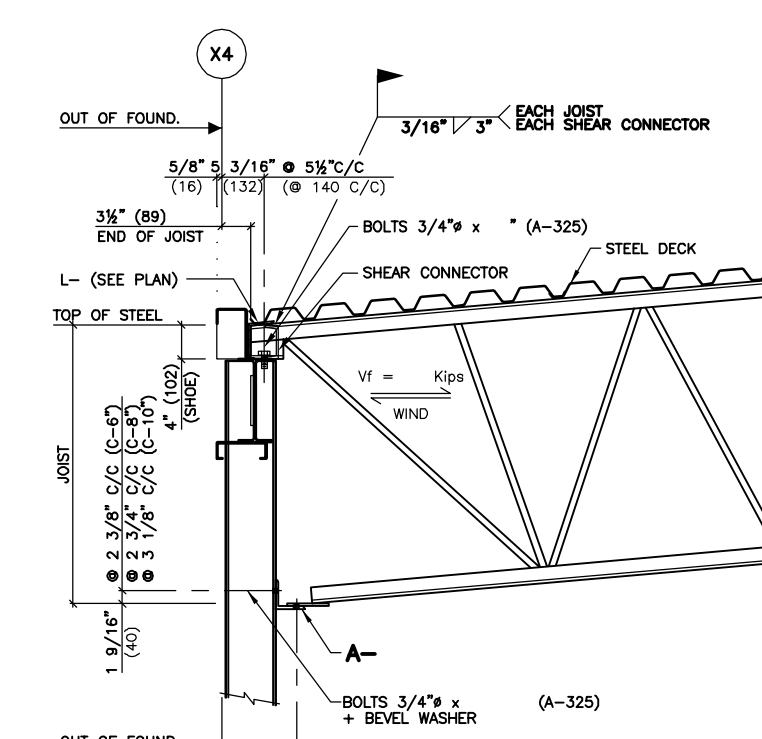
M-100 SECTION



M-101 SECTION

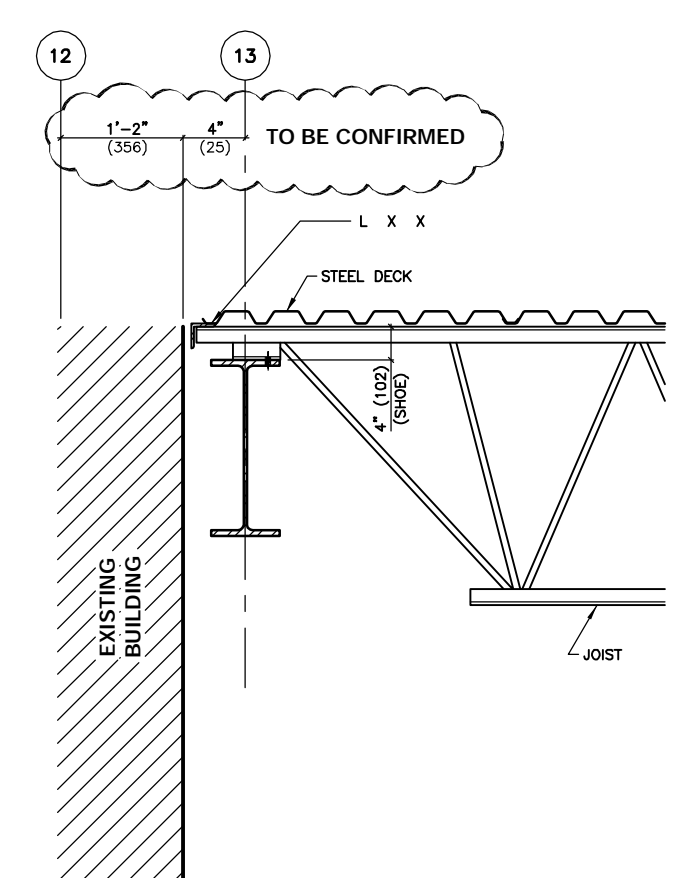


M-102 SECTION

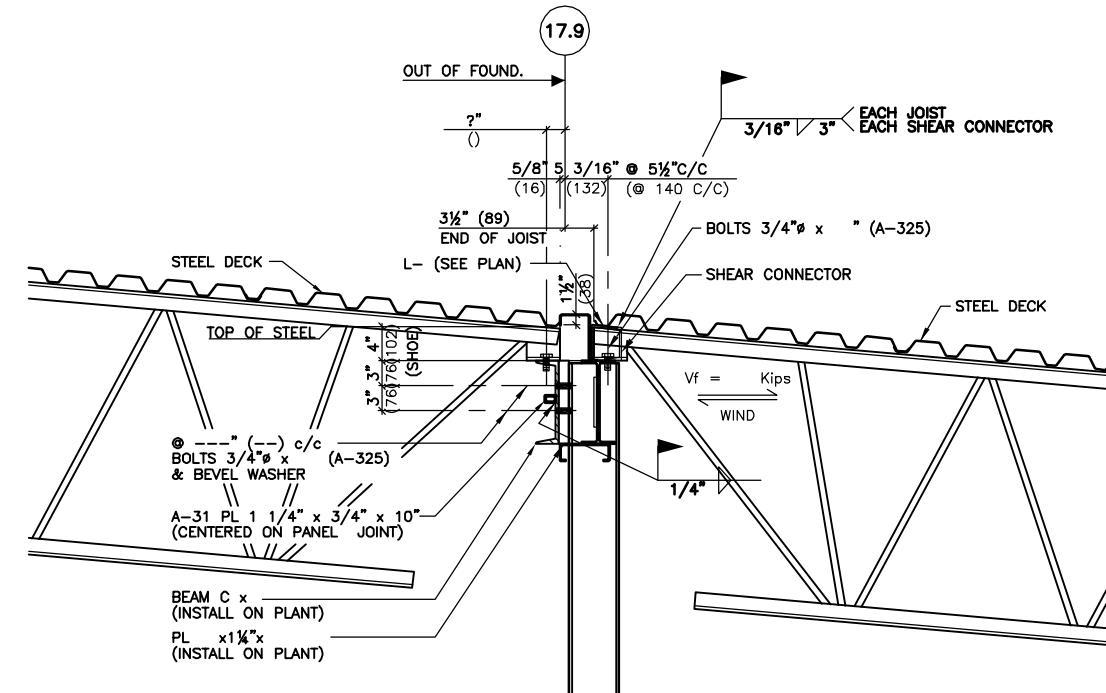


M-103 SECTION

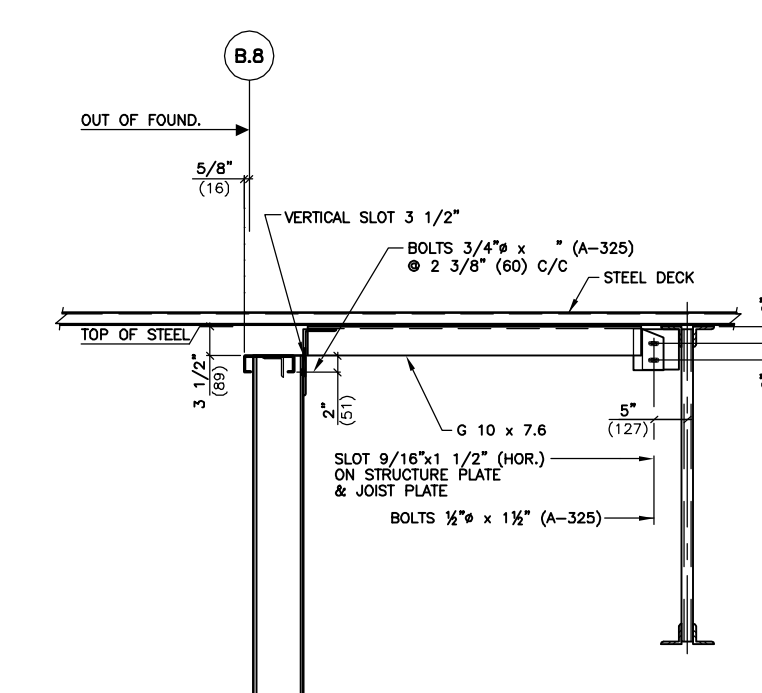
FRAMED OPENING ROOF
 1 HVAC UNIT, 500LBS
 4 GASFIRED HEATERS, @ ±300 LBS.
 POSITIONS & DIMENSIONS TO BE CONFIRMED



M-104 SECTION



M-105 SECTION



M-106 SECTION

- DESIGN LOADS**
- DECK LOAD (ROOFING, DECK, STRUCTURES, MECHANICAL, ELECTRICAL, OR OTHER LOADS) - 15 psf
 - ROOF LIVE LOAD - 16 psf
 - WIND INFORMATION: BASIC WIND SPEED - 90 mph; WIND DESIGN PRESSURE (Ps) - 20.2 psf; WIND LOAD IMPORTANCE FACTOR (I) - 1.0
 - NET UPLIFT DIAGRAM
- ROOF DEFLECTION**
 TYPICAL VALUES NOTED
- EARTHQUAKE DESIGN DATA:**
 $A_v = 0.1$, $R = 4$, $A_h = 0.1$, $C_s = 1.5$
 SEISMIC HAZARD EXPOSURE GROUP - I
 SEISMIC PERFORMANCE CATEGORY - C

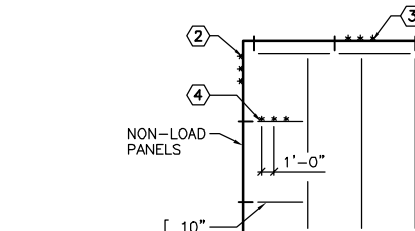
- DESIGN NOTES**
- THE DESIGN OF THE COMPONENTS SHOWN ON THESE DRAWINGS IS IN ACCORDANCE WITH THE REQUIREMENTS OF THE IBCA CODE.
 - THE DESIGN OF THE COMPONENTS SHOWN ON THESE DRAWINGS IS THE PROPERTY OF "MURX". REPRODUCTION OF THESE DRAWINGS OR MANUFACTURE OF COMPONENTS SHOWN ON THESE DRAWINGS WITHOUT PERMISSION FROM "MURX" IS STRICTLY PROHIBITED.
 - WORKERS IN THE ROOF PANELS MUST BE DONE BY GENERAL CONTRACTOR TO PREVENT EXCESSIVE PONDING IN CASE OF ROOF DRAIN BLOCKAGE.

- ERECTOR NOTE:**
- BEFORE LEAVING THE SITE FOR A PROLONGED PERIOD OF TIME, THE ERECTOR MUST:
 - INSTALL ALL THE BRIDGING AND INSTALL AND TIGHTEN ALL BOLTS FOR STRUCTURE AND THE JOIST
 - INSTALL THE SUPPORT PIECES FOR THE NON-BEARING PANELS WITH ALL BOLTS TIGHTENED
 - INSTALL AND TIGHTEN BOLTS OF THE JOIST
 - INSTALL AND TIGHTEN BOLTS AT THE JOINT ON TOP OF PANEL
 - USE GUY LINES TO FASTEN THE TOP OF PANELS TO SOLID ANCHORS ON THE GROUND WHEN REQUIRED.

- MATERIAL NOTES**
- STRUCTURAL STEEL SHALL BE NEW MATERIAL CONFORMING TO THE FOLLOWING SPECIFICATIONS, EXCEPT SELECTED ITEMS WHICH MAY BE ASTM ASH AS APPROVED BY DESIGN ENGINEER.
 - A) STRUCTURAL STEEL - TRUSS MEMBERS FABRICATED FROM STRUCTURAL PHYSICAL QUALITY STEEL Fy=55 KSI
 - HOT ROLLED "M" & "C" SHAPE STEEL ASTM A-572 GRADE 50, Fy=50 KSI
 - HOT ROLLED HOLLOW SECTIONS "HSS" STEEL ASTM A-500 GRADE C, Fy=50 KSI
 - ALL OTHER HOT ROLLED STRUCTURAL STEEL ASTM A-572, GRADE 50, Fy=50 KSI
 - PLATES ASTM A-572, GRADE 50, Fy=50 KSI
 - B) STRUCTURAL BOLTS - ASTM A325 HIGH STRENGTH BOLTS OR A992
 - PANEL -
 - THE SURFACE PREPARATION CONSISTS IN A SSPC-SP5 (HAND TOOLS CLEANING)
 - THE PAINT CONFORMS TO SSPC/PAIN STANDARDS 1-15A
 - THE STANDARD COLOR IS: GREY RED

- SUPPLEMENTAL NOTES**
- ALL SUPPERS FIXED TO ROOF JOISTS AND TRUSSES USED TO SUPPORT EQUIPMENT OR OTHER LOADS OF ANY SORT MUST BE LOCATED AT THE INTERSECTION OF VERTICAL AND HORIZONTAL MEMBERS.
- NOTES FOR JOISTS**
- THE JOIST SITTING ON MURX PANELS MUST BE DESIGNED TO TRANSFER THE LOAD TO 1/2 INCH FROM THE END OF JOIST SHOE.
 - ALL HOLES FOR BOTTOM CHORDS RED SHALL BE SPACED 13 1/2" MAX 1/2" UNLESS NOTED OTHERWISE BY THE SYMBOL \square INDICATING THE USE OF STANDARD ROUND HOLES.
 - TYPE OF BRIDGING REQUIRED:
 - FOR SHORT-SPAN AND MID-SPAN, WITH A LENGTH OF 40'-0" OR LESS, USE HORIZONTAL BRIDGING. FOR ALL OTHER CASES, USE DIAGONAL BRIDGING.
 - THESE SHALL BE HORIZONTAL AND CROSS BRIDGING AT EACH BAY END BETWEEN THE LAST JOIST AND THE ADJACENT ONE.

- ROOF DECK DIAGRAM**
- 1) GENERAL NOTES FOR DECK**
- THE ROOF DECK IS REQUIRED TO ACT AS A LATERAL FORCE DISTRIBUTING DIAPHRAGM.
 - WELDED DECK**
 - THE DECK MUST BE WELDED TO THE STRUCTURAL FRAMING SYSTEM WITH 1500A ELECTRODES.
 - ALL SPOT WELDS 3/4" TO BE DONE BY QUALIFIED WELDER.
 - USE IF REQUIRED MURX "A-32" #307 5/8" (21/32" x 1/4") STANDARD WASHERS.
 - WASHERS REQUIRED: YES NO
 - APPLY A SUITABLE PRIMER, HIGH ZINC CONTENT, ON EACH BURNED TOPSIDE AREAS.
 - SCREWED DECK**
 - THE STEEL DECK SHALL BE SCREWED TO STRUCTURAL SUPPORT WITH SCREWS TYPE TEK/5 #12x4 1/2" HEXAGONAL HEAD.
 - THE MINIMUM EDGE DISTANCE MEASURED FROM CENTERLINE OF THE FASTENERS TO THE END OR BOUNDARY OF THE DECK SHALL NOT BE LESS THAN 1".
 - ERECTOR SHALL BE IN ACCORDANCE WITH AISC "CODE OF STANDARD PRACTICE" AND ALL OTHER APPLICABLE STANDARDS.



- 2) TRANSVERSE FASTENING**
- P-36158 DECK : 7 TRANSVERSE FASTENER / DECK UNIT / SUPPORT.
 - P-36158 DECK : 4 TRANSVERSE FASTENER / DECK UNIT / SUPPORT.

- 3) SIDE LAP FASTENING**
- SIDE LAP SHALL BE SCREWED WITH TEK/2 #10-16x1/2"
 - 6" c/c
 - 12" c/c

- 4) PERIMETER FASTENING**
- ATTACH DECK TO PERIMETER MEMBER AT EACH RIB.
 - ATTACH DECK TO PERIMETER MEMBER @ 6" c/c.
 - ATTACH DECK TO THE CHANNELS [10" @ 12" c/c.

- 5) SHEAR CONNECTORS FASTENING**
- PROVIDE ATTACHMENT BETWEEN DECK AND EACH SHEAR CONNECTOR WITH:
 - SPOT WELD 3/4"
 - SCREW TEK/5 #12x4 1/2"

ACCEPTED

COMPANY: _____
 BY: _____
 DATE: _____

FOR APPROVAL
 NOT TO BE USED FOR CONSTRUCTION

Notes:

- The present drawings must be returned to Murox's office before _____ in order to meet the delivery schedule.
- Client to make Murox aware if he needs any documents other than wet stamped drawings for his building permit.

Legend roof plan

L.S. = Long span joist
 S.S. = Short span joist
 CANT. = Cantilever
 TIE = Bottom chord tie
 EL. = Elevation
 COL. = Column

Joint notes

JOIST: Less than 50'-0" = 4" height
 50'-0" & more = 5" height
 Murox panels = 4" height

CANTISS: Always = 7 1/2" height

TIE: See joint department

Interior joint only

JOIST: Less than 35'-0" = welded
 35'-0" & more = bolted

| Rev | Date | Description | By | Check |
|----------|------|-----------------|----|--------|
| 10-14-04 | | FOR APPROVAL | C | M.B.J. |
| 10-01-04 | | FOR APPROVAL | B | M.B.J. |
| 09-21-04 | | FOR INFORMATION | A | M.B.J. |

| | | | | |
|----------|-----------------|---|--------|------|
| 10-14-04 | FOR APPROVAL | C | M.B.J. | Y.P. |
| 10-01-04 | FOR APPROVAL | B | M.B.J. | Y.P. |
| 09-21-04 | FOR INFORMATION | A | M.B.J. | Y.P. |

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| 09-21-04 | FOR INFORMATION | A | M.B.J. | Y.P. |

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Frozen Ropes
 Portland
 Maine

Roof plan
 & details

Project: P0004-181 #11
 Sheet: E06098
 Date: 09-14-2004
 2 of 4
 C