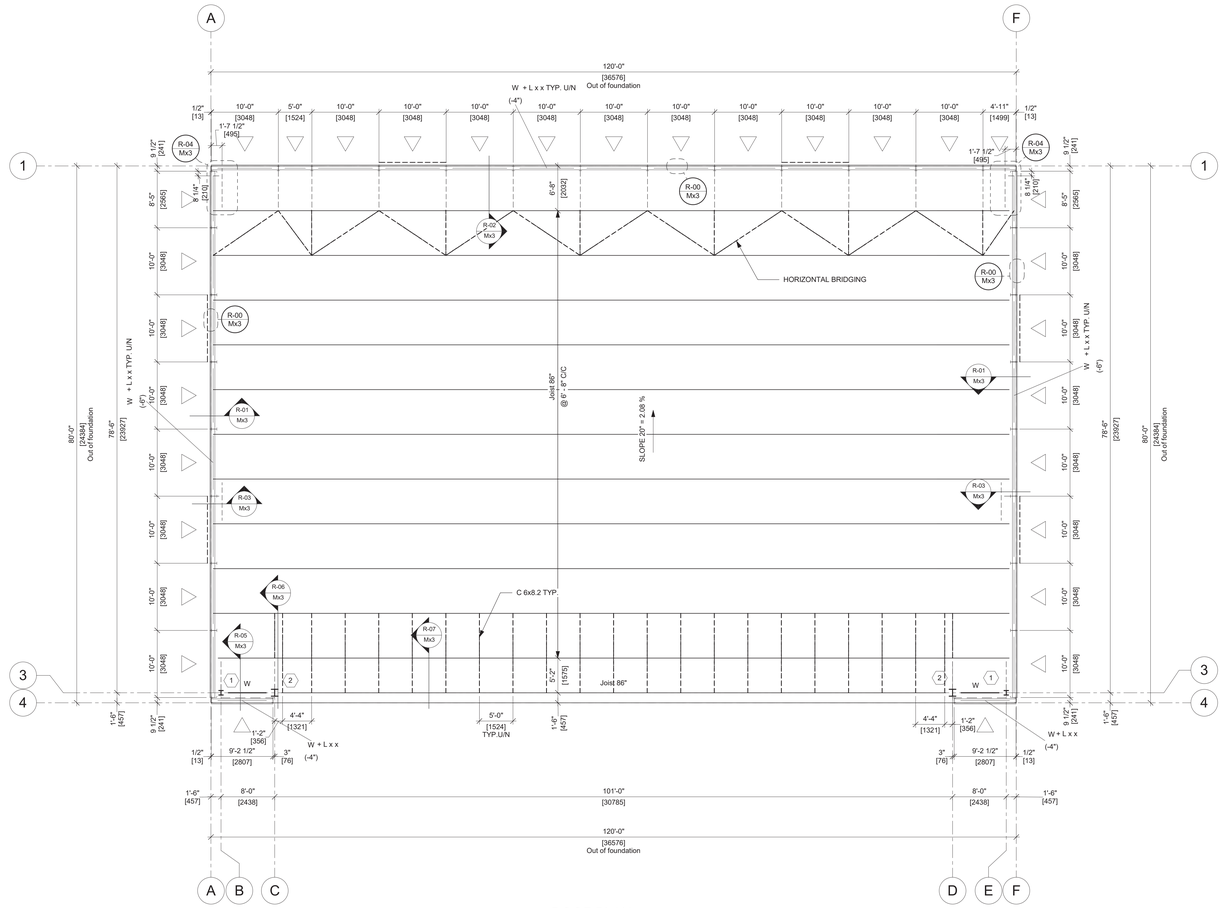
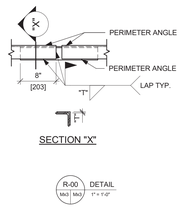
NORTH FOR ERECTION ONLY



ROOF PLAN

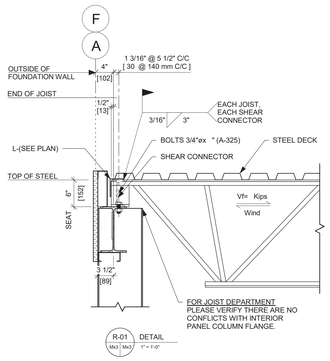
1/8" = 1'-0"

STEEL DECK P-3606, ?? GA., G60, TYP. U.N.
TOP OF STEEL EL. 135'-2" (20719 mm) @ GRID LINE 1
TOP OF STEEL EL. 136'-10" (21227 mm) @ GRID LINE 4

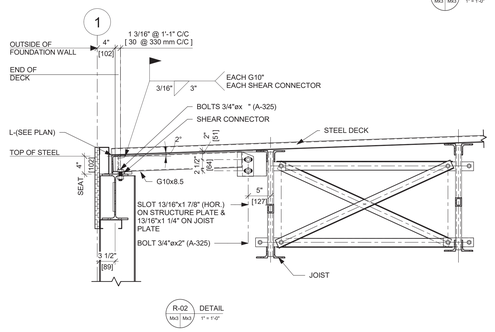


SECTION "X"

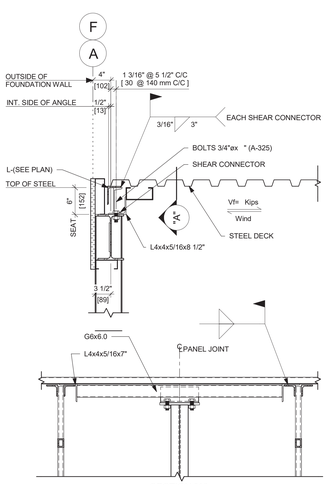
R-00 Mx3 | Mx3 DETAIL 1" = 1'-0"



R-01 Mx3 | Mx3 DETAIL 1" = 1'-0"

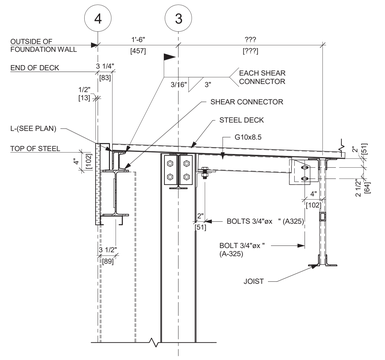


R-02 Mx3 | Mx3 DETAIL 1" = 1'-0"

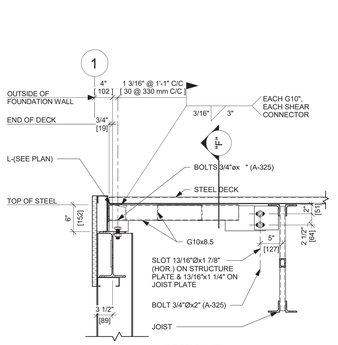


SECTION "A"

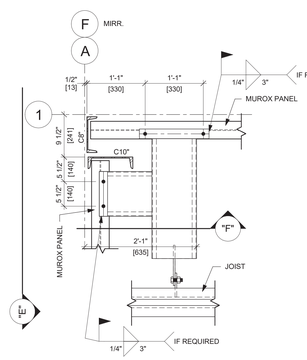
R-03 Mx3 | Mx3 R-03 1" = 1'-0"



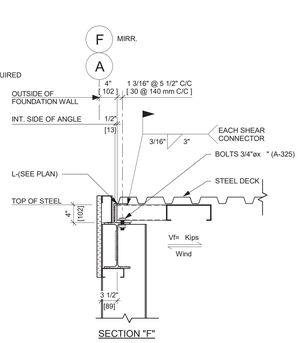
R-05 Mx3 | Mx3 DETAIL 1" = 1'-0"



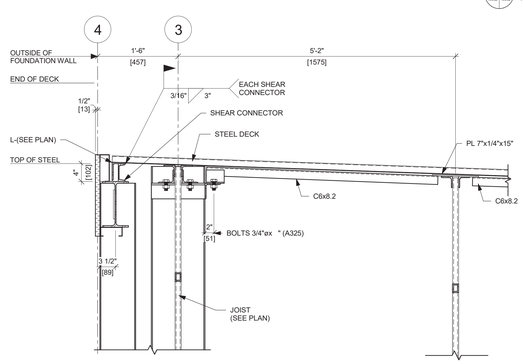
SECTION "E"



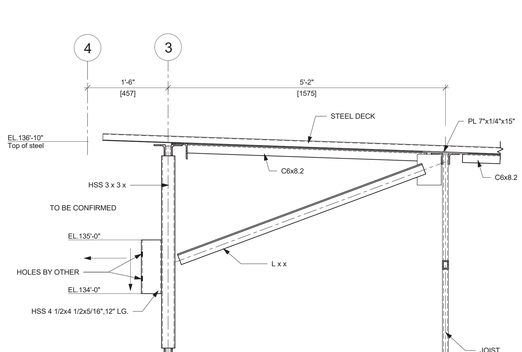
R-04 Mx3 | Mx3 DETAIL 1" = 1'-0"



SECTION "F"



R-06 Mx3 | Mx3 DETAIL 1" = 1'-0"



R-07 Mx3 | Mx3 DETAIL 1" = 1'-0"

ROOF DECK DIAPHRAGM

1) GENERAL NOTES FOR DECK

A) THE DECK IS REQUIRED TO ACT AS A LATERAL FORCE DISTRIBUTING DIAPHRAGM.

B) ☐ WELDED DECK

- THE DECK MUST BE WELDED TO THE STRUCTURAL FRAMING SYSTEM WITH E60XX ELECTRODES.
- ALL SPOT WELDS 3/4"Ø TO BE DONE BY CANADIAN WELDING BUREAU QUALIFIED WELDER.
- APPLY A SUITABLE PRIMER, ON EACH BURNED TOPSIDE AREAS.

☐ SCREWED DECK

- THE STEEL DECK SHALL BE SCREWED TO STRUCTURAL SUPPORT WITH SCREWS TYPE TEK 5 #12-24x1 1/2".

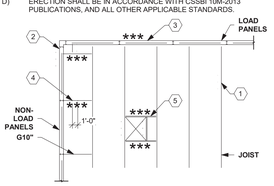
☐ NAILED

- THE STEEL DECK SHALL BE NAILED TO STRUCTURAL SUPPORT WITH NAILS TYPE HILTI: - X-HSN 24 : 1/8" (3mm) ≤ t ≤ 3/8" (10mm)
- X-ENP19 L15 : t ≥ 1/4" (6mm)

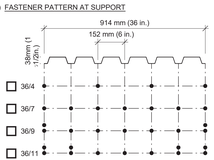
THE ERECTOR IS RESPONSIBLE FOR THE FASTENING OF THE DECK TO THE STEEL STRUCTURE AND THE SELECTION OF THE FASTENER. THE TOOL, THE CARTRIDGE AS WELL AS THE POWER REGULATION OF THE TOOL IN ACCORDANCE WITH THE PRODUCT SPECIFICATIONS.

C) THE MINIMUM EDGE DISTANCE MEASURED FROM CENTERLINE OF THE FASTENER TO THE END OR BOUNDARY OF THE DECK SHALL NOT BE LESS THAN 1".

D) ERECTION SHALL BE IN ACCORDANCE WITH CSSBI 10M-2013 PUBLICATIONS, AND ALL OTHER APPLICABLE STANDARDS.



1) 2) FASTENER PATTERN AT SUPPORT



3) SIDE LAP FASTENING

SIDE LAP SHALL BE SCREW:

☐ SCREW TEK 2 #10 - 16 x 1/2"

☐ @ 6" c/c
☐ @ 12" c/c
☐ @ 24" c/c

☐ HILTI S-SLC 01 M HWH (22 ga., 20 ga. & 18 ga.)

☐ @ 6" c/c
☐ @ 12" c/c
☐ @ 24" c/c

☐ HILTI S-SLC 02 M HWH (16 ga.)

☐ @ 6" c/c
☐ @ 12" c/c
☐ @ 24" c/c

4) PERIMETER FASTENING

(2) A) ATTACH DECK TO PERIMETER MEMBER AT EACH RIB.

(3) B) ATTACH DECK TO PERIMETER MEMBER @ 6" c/c.

(4) C) ATTACH DECK TO G10" AND C8" @12" c/c.

(5) D) ATTACH DECK TO ROOF OPENING FRAMES @ 6" c/c.

5) SHEAR CONNECTORS FASTENING

A) PROVIDE ATTACHMENT BETWEEN DECK AND EACH SHEAR CONNECTOR WITH:

☐ SPOT WELD 3/4"ø
☐ SCREW TEK 5 #12-24x1"
☐ HILTI NAIL X-HSN 24

FOR PERMIT

Legend roof plan		Joist notes		
S.S. =	Special seat	Beam Note	JOIST:	Less than 60'-0" = 4" height
CANT. =	Cantruss			60'-0" & more = 5" height
TIE =	Bottom chord tie			Murox panels = 4" height
EL. =	Elevation		CANTRUSS:	Always = 7 1/2" height
COL. =	Column		C/C HOLES:	Joist & cantruss See joist department
[E]	= Seismic axial load (kips) unfactored*			All joist and bridging will be bolted.
[E | W]	E = Axial seismic load (kips) unfactored* W= Axial wind loads (kips) unfactored			
	* = See "Design load notes" ; 6 - Seismic data, connections			
<XX> =	End reaction factored (kips)			

REVISION	DATE	DESCRIPTION	DRAWN	CHECKED
B	09/07/2017	For permit	M.V.	
A	08/23/2017	For approval	G.S.	M.V.

PROJECT MANAGER: -

DRAFTING: -

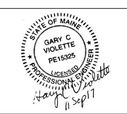
DRAWN	DESIGNED	PROJECT ENGINEER	SCALE:
Gabriela Sava	Claude Fortin	Claude Fortin	AS INDICATED

CHECKED	CONSULTING ENGINEERS / ARCHITECTS	DATE:
Marco Veilleux	ENGINEER ARCHITECT	2017/08/08

CUSTOMER: BENCHMARK

CANAM
270, Chemin du Tremblay, Boucherville, Québec, Canada, J4B 5X9
Phone: (450) 641-4000
Toll Free: (866) 506-4000
Fax: (450) 641-4001

PROFESSIONAL SEAL



PROJECT

NEA HANGAR
PORTLAND
MAINE, USA

DRAWING TITLE

ROOF PLAN & DETAILS

CONTRACT NUMBER	DRAWING NUMBER	DIVISION	REVISION
P2017-116R2 T05942	Mx3		B