

10038B 11 (ortho split mount

DRAWING LIST		DATE : 1
DRAWING NO. 1	M1.0	GENERAL NOTES
DRAWING NO. 2	M1.1	OVERVIEW
DRAWING NO. 3	M2.0	MODULE LAYOUT
DRAWING NO. 4	M3.0	BOOM LAYOUT
DRAWING NO. 5	M4.0	STRUCTURAL LAYOUT
DRAWING NO. 6	M5.0	GRID ASSEMBLY & ELECTRICAL
DRAWING NO. 7	M6.0	LIGHTING CALCULATIONS

THIS DRAWING PACKAGE, SPECIFICATIONS, AND CONCEPTS CONTAINED HEREIN ARE THE SOLE PROPERTY OF NORTEK AIR SOLUTIONS, AND MAY NOT BE REPRODUCED OR USED IN ANY FASHION WITHOUT THE PRIOR WRITTEN PERMISSION OF NORTEK AIR SOLUTIONS.

GENERAL NOTES

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- 1. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS PRIOR TO STARTING WORK. THE ENGINEER SHALL BE NOTIFIED OF ANY DISCREPANCIES.
- THE CONTRACTOR SHALL PROVIDE AND MAINTAIN 2. ADEQUATE ERECTION SHORING AND BRACING AS REQUIRED FOR STABILITY OF ALL STRUCTURES DURING ALL PHASES OF CONSTRUCTION.
- IN NO CASE SHALL WORKING DRAWINGS BE SCALED 3. FROM PLANS, SECTIONS OR DETAILS ON THE DRAWINGS.
- 4. THE CONTRACT STRUCTURAL DRAWINGS REPRESENT THE FINISHED STRUCTURES. THEY DO NOT INDICATE METHODS OF CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE ALL MEASURES NECESSARY TO PROTECT EXISTING AND NEW STRUCTURES DURING CONSTRUCTION. SUCH MEASURES SHALL INCLUDE, BUT ARE NOT LIMITED TO, BRACING, SHORING, ETC, FOR ALL CONSTRUCTION PHASE LOADS.
- 5. ALL WORK SHALL BE PREFORMED IN COMPLIANCE WITH 2006 INTERNATIONAL BUILDING CODE (IBC) AS AMENDED BY THE STATE OF NEW YORK.
- 6. SEE STRUCTURAL DRAWINGS FOR CLEANSUITE SUPPORT DETAILS

STRUCTURAL STEEL

- 1. MATERIAL SHALL CONFORM AS FOLLOWS:
- 1.A. TUBE STEEL HOLLOW STRUCTURAL SECTION:
- ASTM A500 FY= 46KSI, GRADE B. 1.B. SHEET METAL: ASTM A653 FY= 36KSI
- 1.C. PIPE:ASTM A53, FY=36 KSI
- 1.D. BOLTS: (GRADE 5 EQUIVALENT)

STRUCTURAL STEEL CONT'D

2.	WELDED CONECTION
2.A.a 2.A.b	WELD MATERIAL: TENSILE STRENGTH YEILD STRENGTH: 76 WELD TYPE: FCAW-0
3.	BOLTED CONNECTIO
	TOP, BOTTOM AND C GRADE 5 EQUIVALEN USE A HARDENED W OF NUT. HARDENED
3.A.c	ASTM F436. HOLES HAVE A STAN NOTED.
~ ^ · ·	TIQUITEN DOL TO ONI

- 3.A.d TIGHTEN BOLTS SNUG UNTIL ALL PLIES OF THE JOINT ARE IN FIRM CONTACT'



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10/11/2017		

ONS:

: 86 KSI 76 KSI AS WELDED WITH 75/.25% -G FILL METAL E71T-7M

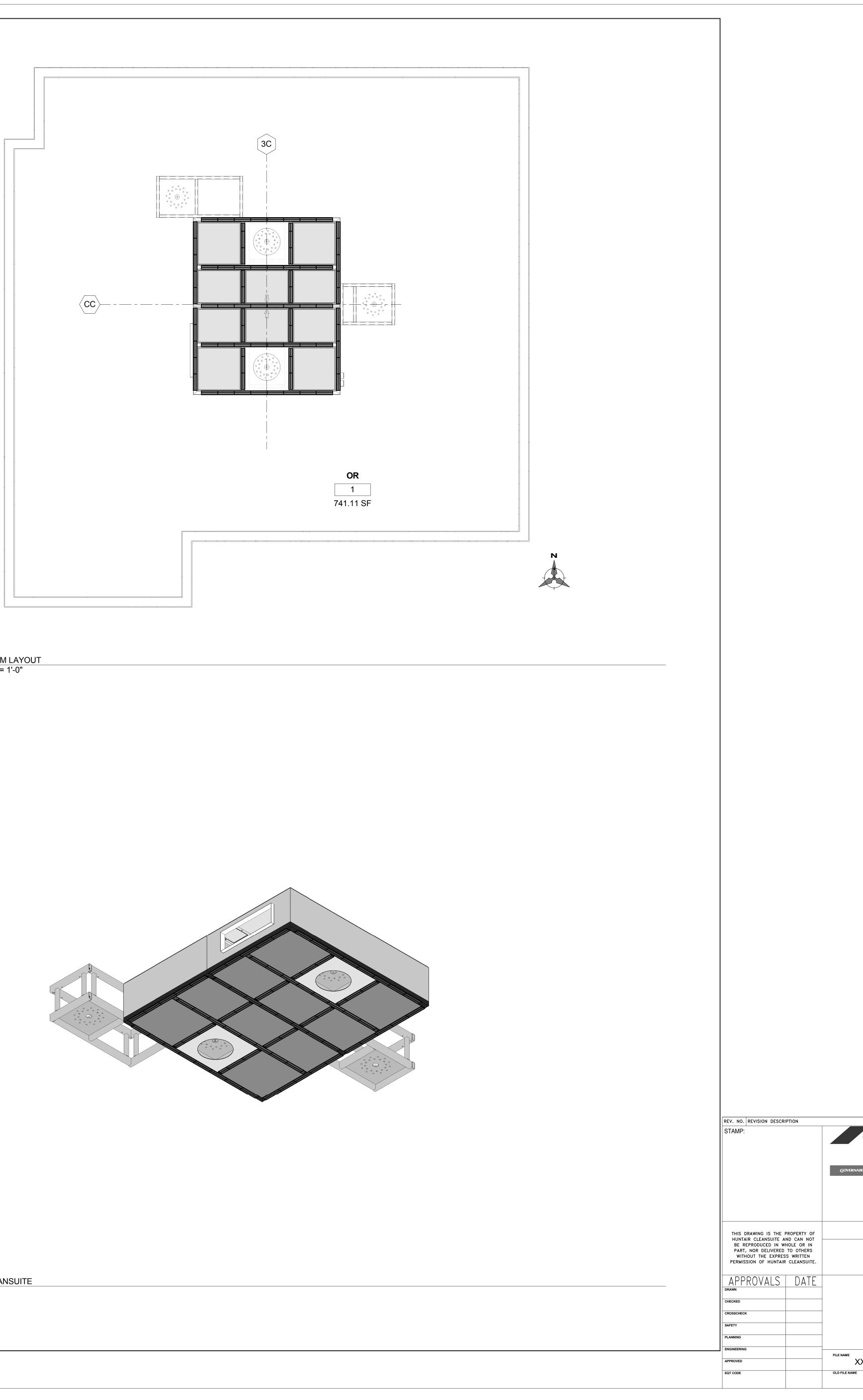
IONS:

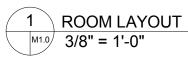
CORNERS OF CLEANSUITE CONNECTIONS: ENT DIA 5/8" BOLT, 24.00" OC. WASHER BENEATH THE TURNED ELEMENT OF THE BOLT

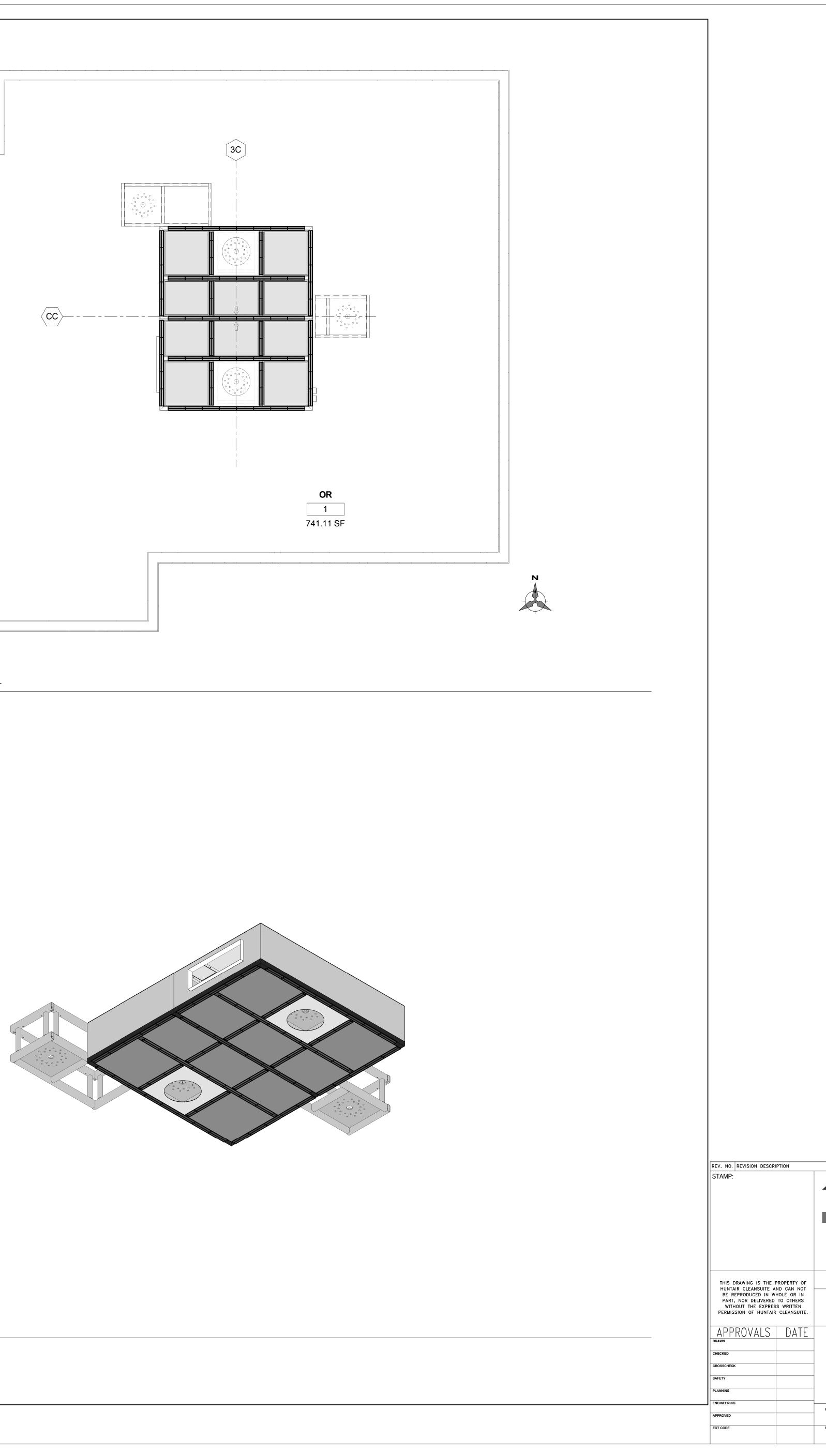
D WASHER TO BE AT LEAST 5/16" THICK CONFORMING TO

ANDARD OVERSIZE CALL OUT UNLEOTHERWISE

3.A.e ENLARGE BOLT HOLES BY REAMING IF NECESSARY. DO NOT TORCH CUT.

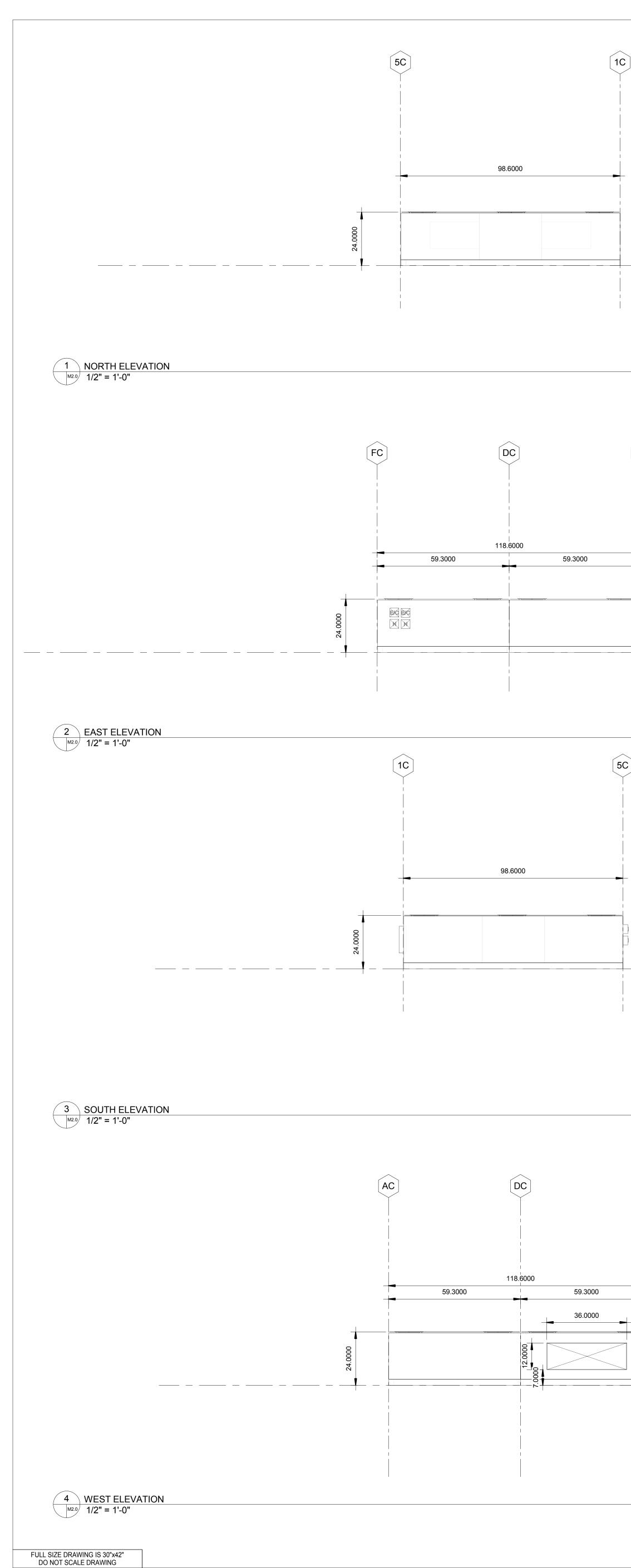


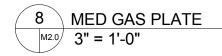


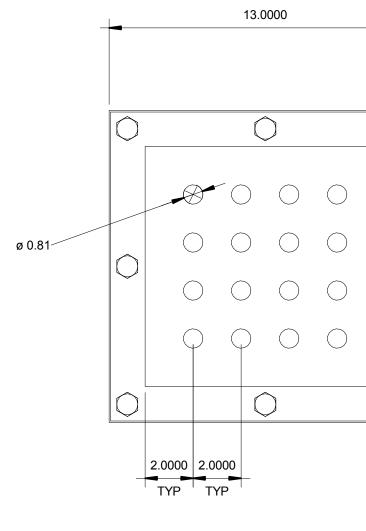




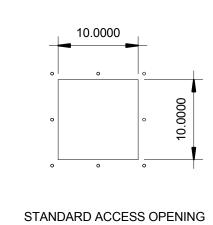
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AIR SOLUTIONS
WERNAIR Office Image: Control Image: Control
HOSPITAL NAME_ OR
GENERAL NOTES
HOSPITAL NAME ADDRESS CITY, STATE ZIP
ME DRAWING NO. XX-XXXX M1.0 E NAME PLOT SCALE 1 : 1 DRAWING SCALE As indicated
12/21/17 9:39:16 AM



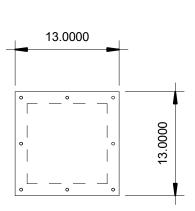


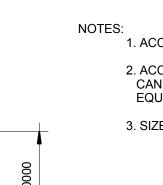


6 TYPICAL ACCESS PANEL M2.0 M2.0 1" = 1'-0"

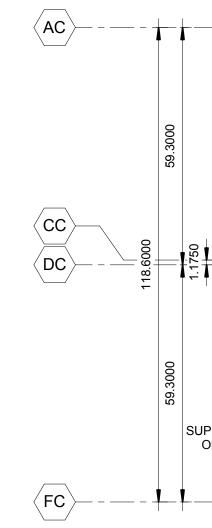




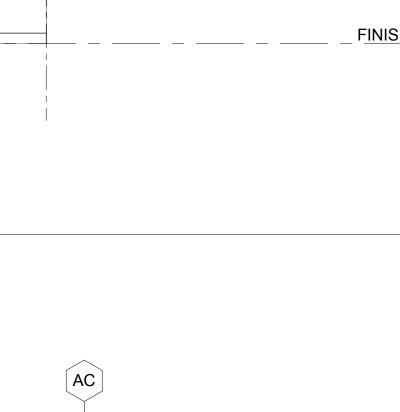


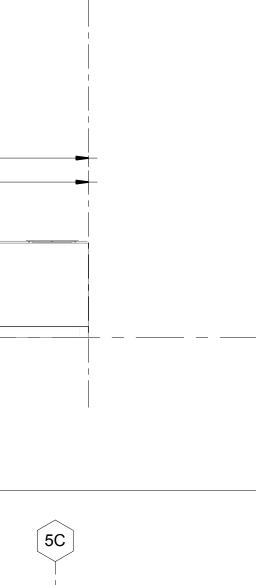


5 MODULE LAYOUT M2.0 1/2" = 1'-0"



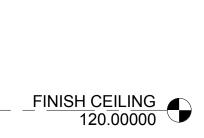
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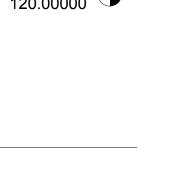


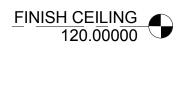
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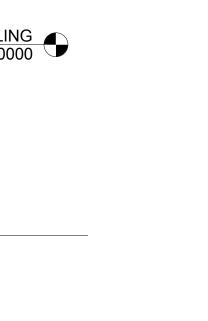






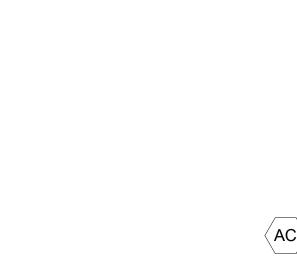










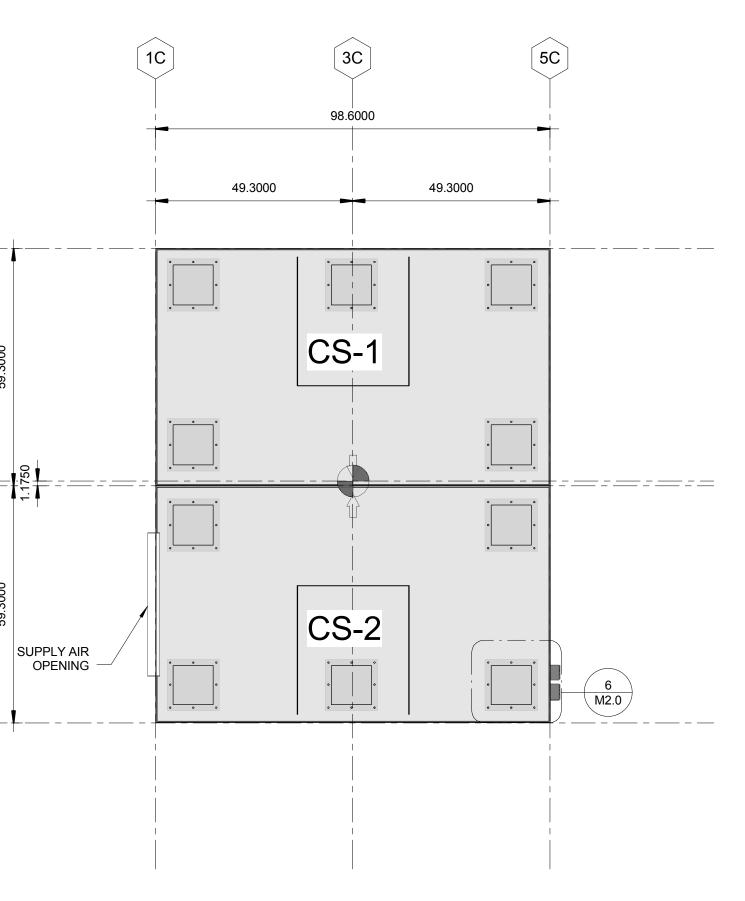






INDICATES ISO CENTER

 \Rightarrow <> INDICATES AIR FLOW



1. ACCESS PANEL MAY BE MODIFIED

2. ACCESS PANELS TO BOOM ALCOVES CAN BE FIELD-MODIFIED BY OTHERS TO ALLOW FOR EQUIPMENT, ELECTRICAL AND/OR MEDGAS CLEARANCES

3. SIZE OF ACCESS PANELS TO BOOM ALCOVES ARE MAXIMIZED

7 TYPICAL BLANK PANEL M2.0 1" = 1'-0"

APPROVED DATE AS BUILT DATE REV. NO. REVISION DESCRIPTION STAMP: 19855 SW 124th Ave TUALATIN, OR 97062 Phone (503) 639-0113 Fax (503) 639-1296 www.nortekair.com HOSPITAL NAME_ OR THIS DRAWING IS THE PROPERTY OF HUNTAIR CLEANSUITE AND CAN NOT BE REPRODUCED IN WHOLE OR IN PART, NOR DELIVERED TO OTHERS WITHOUT THE EXPRESS WRITTEN PERMISSION OF HUNTAIR CLEANSUITE. MODULE LAYOUT APPROVALS DATE HOSPITAL NAME HOSPITAL NAME ADDRESS DRAWN CHECKED CROSSCHECK CITY, STATE ZIP SAFETY PLANNING ENGINEERING FILE NAME DRAWING NO. M2.0 APPROVED XX-XXXX EQT CODE OLD FILE NAME PLOT SCALE DRAWING SCALE WORK ID NO. 1:1 As indicated 12/21/17 9:39:20 AM

1. BLANK PANEL

GRID

2.

NOMINAL GRID CENTERLINES - 3.875"

FULL SIZE DRAWING IS 30"x42"
DO NOT SCALE DRAWING

3 STERIS EQUIPMENT PLATE M3.0 1" = 1'-0"

-1.0000 23.7500

1 BOOM PLATE SCHEDULE M3.0 12" = 1'-0"

			E	Boom Plate Schedule	
Count	Type Mark	Manufacturer	Model	Description	Plate
4	B3,B5,C1,C2	STERIS		STANDARD EQUIPMENT PLATE	

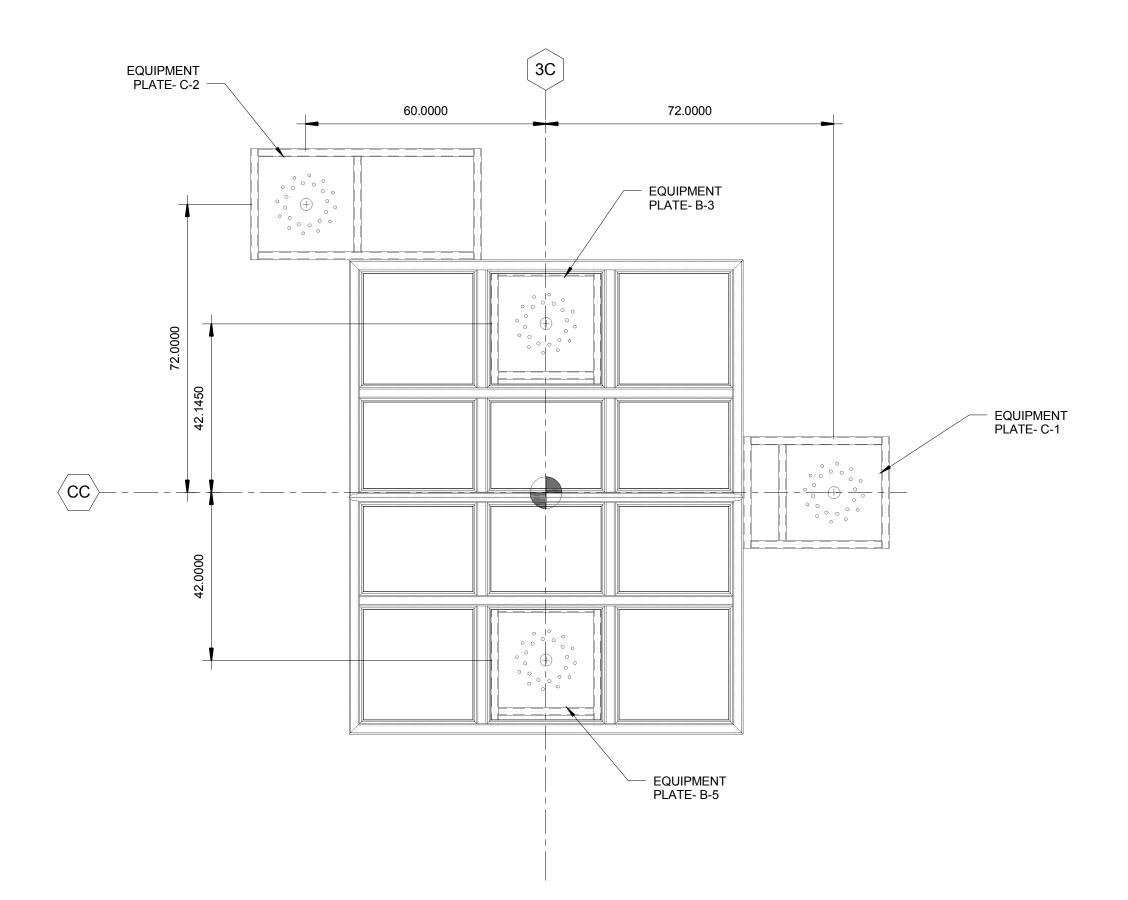


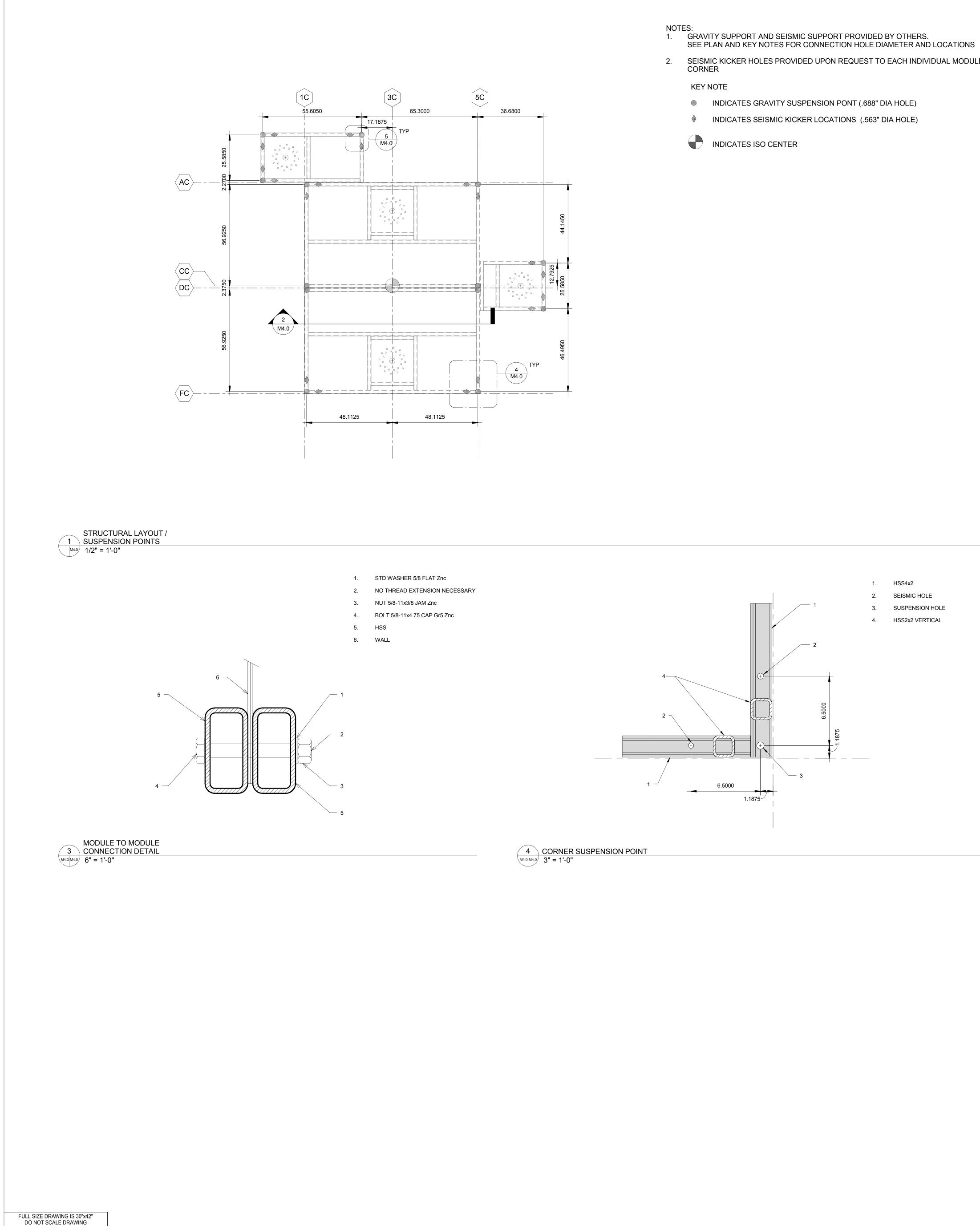
Plate Mount Height (FFC)	Comments
5.2500	23.7500x23.7500x1.0000

2 BOOM LAYOUT M3.0 1/2" = 1'-0"



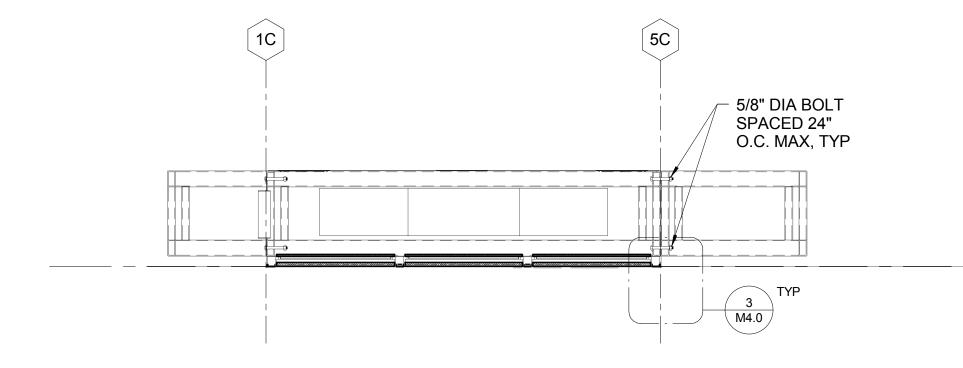
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STAMP:	NORTEK
	GOVERNAIR" OHUNTAIR MAMMONTO TO T
	19855 SW 124th Ave TUALATIN, OR 97062
	Phone (503) 639-0113 Fax (503) 639-1296 www.nortekair.com
THIS DRAWING IS THE PROPERTY OF HUNTAIR CLEANSUITE AND CAN NOT BE REPRODUCED IN WHOLE OR IN	HOSPITAL NAME_ OR
PART, NOR DELIVERED TO OTHERS WITHOUT THE EXPRESS WRITTEN PERMISSION OF HUNTAIR CLEANSUITE.	EQUIPMENT LAYOUT
APPROVALS DATE	
CHECKED CROSSCHECK	HOSPITAL NAME ADDRESS CITY, STATE ZIP
SAFETY PLANNING	
APPROVED	FILE NAME DRAWING NO. M3.0
EQT CODE	OLD FILE NAME PLOT SCALE DRAWING SCALE WORK ID NO. 1:1 As indicated 12/21/17 9:39:24 AM

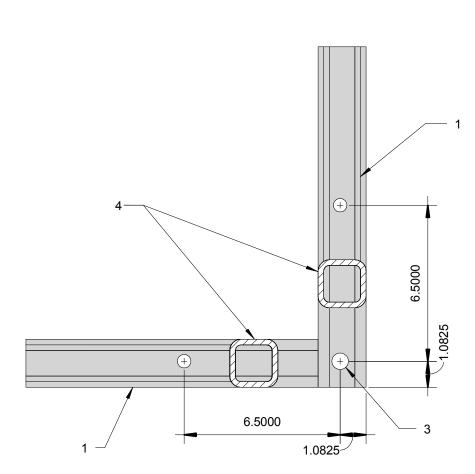


2. SEISMIC KICKER HOLES PROVIDED UPON REQUEST TO EACH INDIVIDUAL MODULE CORNER

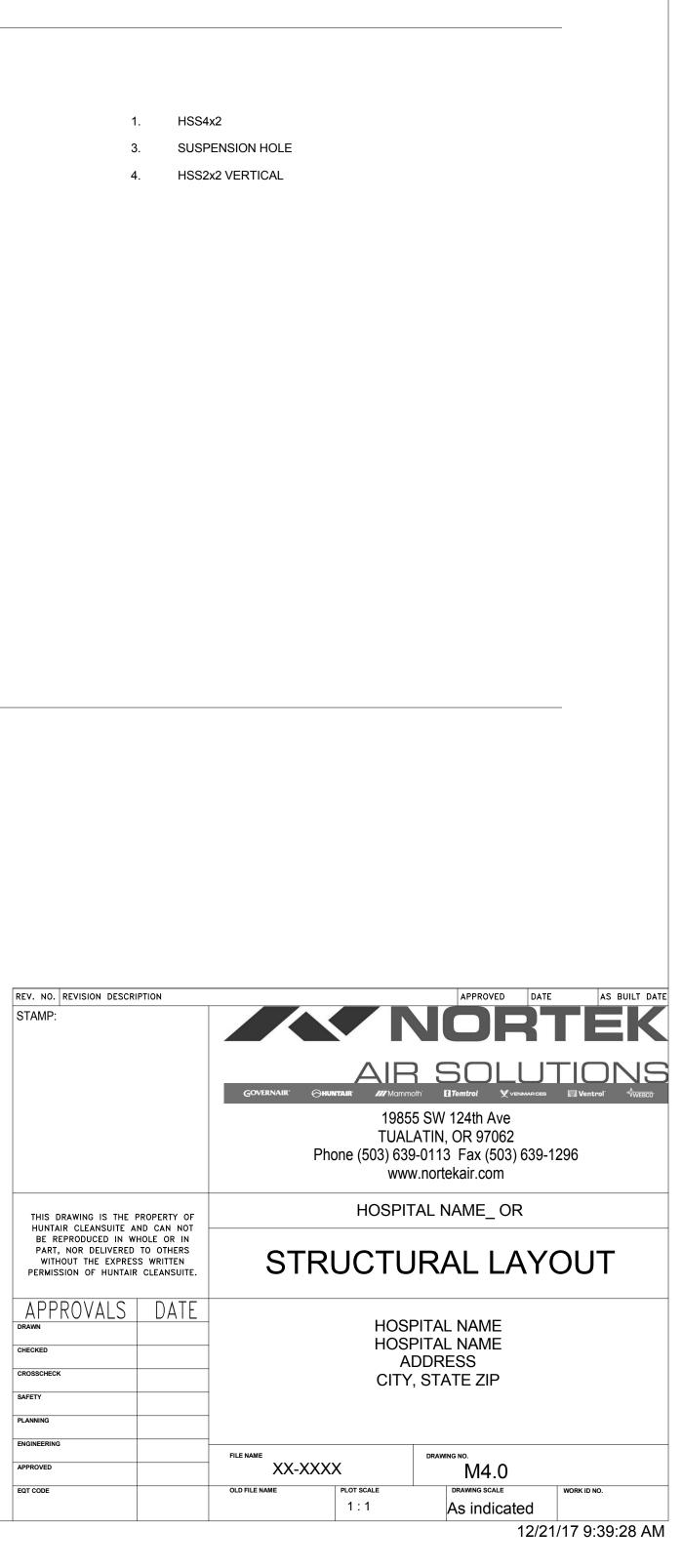




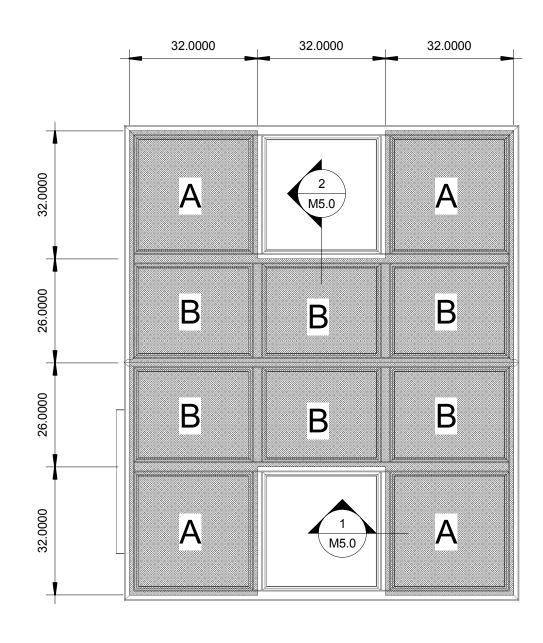
MODULE TO MODULE 2 CONNECTION DETAIL M4.0 M4.0 1/2" = 1'-0"



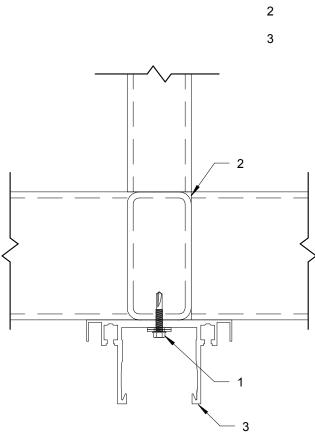
TRUSS CORNER SUSPENSION 5 POINT DETAIL M4.0 M4.0 3" = 1'-0"



FINISH CEILING 120.00000



5 GRID LAYOUT M5.0 1/2" = 1'-0"



1 TEK SCREW - ZINC PLATED

2 HSS4x2x1/4 - POWDER COATED PAINT 3 INTERIOR FLUSH MOUNT GRID - POWDER COATED PAINT

TYPICAL TUBE TO GRID ATTACHMENT-INTERIOR M5.0 M5.0 1" = 1'-0"

FULL SIZE DRAWING IS 30"x42" DO NOT SCALE DRAWING

	Air Filter/ Diffuser Schedule					
Type Mark	Count	Description	Model	Manufacturer	Comments	
А	4		DIFFUSER	HUNTAIR		
В	6		DIFFUSER	HUNTAIR		
B Grand total:			DIFFUSER	HUNTAIR		

SYSTEM SIZING

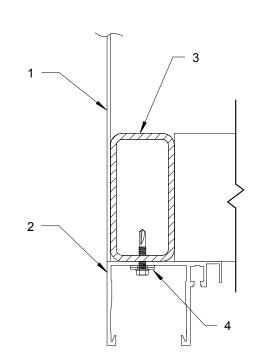
CFM: 1577.5 DIFA: 63.1 SF VELOCITY: 25 FPM

CFM: 2208.5 DIFA: 63.1 SF VELOCITY: 35 FPM

6 LIGHTING LAYOUT M5.0 1/2" = 1'-0"



- 2 PERIMETER GRID
- 3 HSS4x2x1/4 4 TEK SCREW



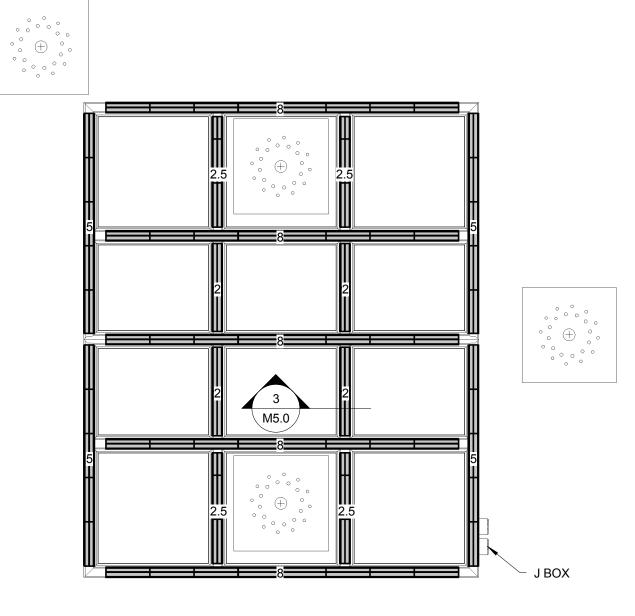
TUBE TO GRID 2 ATTACHMENT-EXTERIOR M5.0 M5.0 1" = 1'-0"

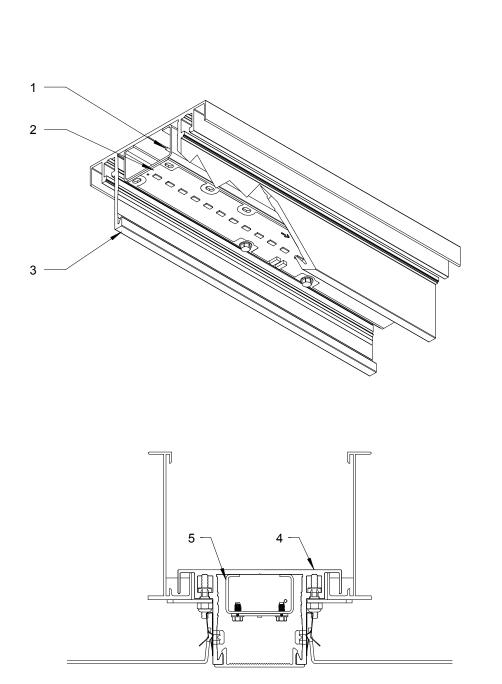
3 TYP LED LIGHTING DETAIL M5.0 M5.0 1/2" = 1'-0"

NOTE: 1. LED LENS IS CLEAR-DIFFUSER LIGHTING ON (2) CIRCUITS (PERIMETER AND INTERIOR) (2) J-BOXES PROVIDED PER CIRCUIT (1) 120/277VAC POWER (1) 0-10V LED DIMMING CONTROL

3. LOW VOLTAGE AND ELECTRICAL WIRING FOR BOOMS ARE WIRED DIRECTLY TCBOOM AND PROVIDED BY OTHERS

4. PERIMETER WATTAGE = 243.9 INTERIOR WATTAGE = 284.6





- 1 LIGHT FIXTURE
- 2 LED STRIP 3 LENS CLIP IN EXTRUSION
- 4 2.6 BOTTOM LOAD GRID EXTRUSION
- 5 LED MOUNTING STRUT

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19855 SW 124th Ave TUALATIN, OR 97062 Phone (503) 639-0113 Fax (503) 639-1296 www.nortekair.com					
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RID ASSE	EMBLY	′ & I	ELEC		
HOSI A	PITAL NAME PITAL NAME DDRESS 7, STATE ZIP				
(-XXXX	drawing no. M5.()			
PLOT SCALE	DRAWING SCALE		WORK ID NO.		
	/ 10 111010				

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	• 23	• 27	• 32	• 40	• 47	4 8	48	
• 22	• 25	• 31	• 40	• 50	61	68	68	
• 24	• 29	• 38	• 51	63	• 77	• 83	• 81	
• 26	• 32	• 43	• 59	• 78	• 95	• 140 13 • 155 13	40 140 120 51 154 140 56 155 152	
• 27	• 34	• 45	64	● 84	• 104	• 170 1	 157 157 167 166 168 	
• 27	• 34	• 45	63	● 86	• 105	 60¹⁶⁹ 164 164 164 	69 169 168 72 169 16 ₆₁ 67 169 167 68 164 163	
• 25	• 32	• 43	● 60	● 80	98	• 5 4 ¹⁵⁴ 1	65 160 157 51 152 1 5 ₅₄ 49 148 147	
• 23	• 29	• 37	● 51	69	83	● 85	● 84	
• 20	• 25	• 32	4 2	• 54	65	• 71	• 70	
• 18	• 21	• 26	• 32	• 42	• 49	• 53	• 53	
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• 13	• 14	• 16	• 18					
• 11	• 12	• 14	• 15					

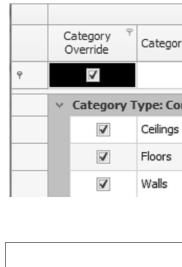
Manufacturer Total Light Loss Factor Model Luminaire Lumer Count 26-LED03-0.188-WOR-WPCL 80 0.91 540 lm Huntair

1LIGHTING CALCULATIONM6.01/2" = 1'-0"

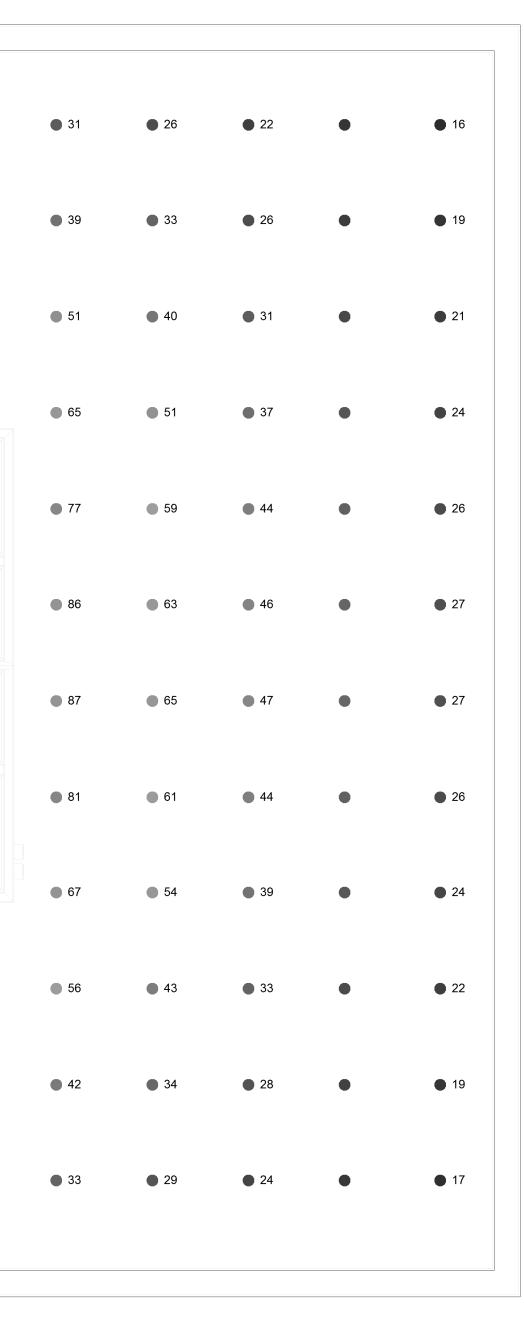
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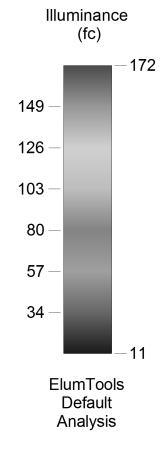
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5.	SHARED L
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7.	LIGHT LOS

DISCLAIMER



Project N HOSPITAL HOSPITAL





LIGHTING FIXTURE SCHEDULE

nens 🛛 V	Vattage	Photometric File Data	OmniClass Number	OmniClass Title
	0 W	Internet Period IESNA:LM-63-2002 ITESTITUR5091 ITESTLABJINDEPENDENT TESTING LABORATORIES, INC. [ISUEDATE]07/14/15 IMANUFACJHUNTAIR CLEANPAK [LUMICAT]26-LED03-0.188-WOR-WPCL [LUMINAIREJEXTRUDED METAL HOUSING WITH WHITE PAINTED GENERAL INTERIOR IMOREJFINISH, FABRICATED SEMI-SPECULAR METAL CIRCUIT BOARD MOUNT, 1 [MOREJFINISH, FABRICATED SEMI-SPECULAR METAL CIRCUIT BOARD MOUNT, 1 [MOREJWHITE CIRCUIT BOARD WITH 22 LEDS, EXTRUDED TRANSLUCENT LINEAR [MORE]VERTUCAL BASE: UP POSITION. [LAMP]TWENTY-TWO WHITE MULTI-CHIP LIGHT EMITTING DIODES (LEDS), [MORE]VERTICAL BASE-UP POSITION. [LNOTE]THIS REPORT WAS PRORATED FROM ITL TEST NUMBER 80138 WHICH WAS [MORE]PRESENT A 1' LUMINAIRE. THE DATA WAS DIVIDED BY FOUR TO [MORE]REPRESENT A 1' LUMINAIRE. THE DATA WAS DIVIDED BY FOUR TO [MORE]TEST DISTANCE = 3.0 FEET [ABSOLUTELUMENS]540 TILT-MONE 22 -1 1 37 5 1 1 0.208333 0.973958 0.005208 110 0 2.5 5 7.5 10 12.5 15 17.5 20 22.5 25 25 7.5 3 30 2.5 35 37.5 40 42.5 45 47.5 50 52.5 55 57.5 60 62.5 65 67.5 70 72.5 75 77.5 80 82.5 85 87.5 90 0 2.28 228 227 225 222 219 216 211 206 200 111 102 93 85 77 88 60 53 45 33 31 24 18 13 14 2 228 226 224 222 202 17 213 208 203 197 190 183 176 166 152 144 135 127 118 109	23.80.70.11	Luminaries for Internal Lightin

RAL NOTES

RESULTS ARE ESTIMATED.

IRE HEIGHT : 10 FT

ATION GRID HEIGHT ABOVE THE FLOOR: 3 FT (STANDARD TABLE HEIGHT)

NAL LIGHTING NOT INCLUDED.

D LIGHT IS NOT INCLUDED.

OCATIONS ARE APROXIMATE.

OSS FACTOR: 0.91

8. ONLY DIRECT LIGHT IS CALCULATED.

CALCULATIONS HAVE BEEN PERFORMED ACORDING TO IES STANDARDS AND GOOD PRACTICE, SOME

DIFFERENCES BETWEEN MEASURED VALUES AND CALCULATED RESULTS MAY OCCUR DUE TO TOLERANCES IN CALCULATION METHODS, TESTING PROCEDURES, COMPONENT PERFORMANCE,

MEASUREMENT TECHNIQUES AND FIELD CONDITIONS SUCH AS VOLTAGE AND TEMPERATURE VARIATIONS.

INPUT DATA USED TO GENERATE THE ATTACHED CALCULATIONS SUCH AS ROOM DIMENSIONS, REFLECTANCES, FURNATURE AND ARCHITECTURAL ELEMENTS SIGNIFICANTLY AFFECT THE LIGHTING

CALCULATIONS. IF THE REAL ENVIORMENT CONDITIONS DO NOT MATCH THE INPUT DATA, DIFFERENCES WILL OCCUR BETWEEN MEASURED VALUES AND THE CALCULATED VALUES.

Revit Categories						ElumTools Ma	terial Properties	;		
gory Name 🔺	Category Type	Surface Type	Color	Reflectance	Transmittance	Mesh Level	Color Bleed	Luminance	Luminaire Luminous	Sp (F
	-	-		÷	÷	-				
Common (3)										
gs	Common	Dpaque, 1-sided		0.80	0.00	0 (Default)	1.00	0		
3	Common	Dpaque, 1-sided		0.40	0.00	0 (Default)	1.00	0	\checkmark	
	Common	Dpaque, 1-sided		0.70	0.00	0 (Default)	1.00	0	\checkmark	

		ElumTools General Use Illuminance Results			
ct Name	Project Number	Calculation Points Name	Average	Minimum	
L NAME_ OR	XX-XXXX	STERIS 5085 General Surgical Table	160 fc	139 fc	
L NAME_ OR	XX-XXXX	OR 1	45 fc	11 fc	

erties	;						
	Luminance		Luminance Color	Luminaire Luminous	Specularity (Raytrace Only)	Glossiness (Raytrace Only)	
							l.
1.00 1.00		0		V V	0.00	0.0	
1.00		0		V	0.00	0.0	1
			Minimum 139 fc		Maximu 172 fc	m	
			11 fc		106 fc		
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		ESCRIP	TION				PROVED DATE AS BUILT DATE
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		ESCRIP	TION	GOVERNAIR	T Phone (503	Mammeth 19855 SW 124 UALATIN, OR 639-0113 Fa	th Ave 97062 IX (503) 639-1296
STAMF	P:			GOVERNAIR	T Phone (503	Annuch 19855 SW 124 UALATIN, OR 639-0113 Fa www.nortekain	th Ave 97062 xx (503) 639-1296 c.com
THIS HUN BE PAF	DRAWING IS TAIR CLEANSU REPRODUCED RT, NOR DELIV	THE PF TITE AN IN WH ERED 1	ROPERTY OF ID CAN NOT OLE OR IN TO OTHERS		T Phone (503 HOS	Particular Particular	th Ave 97062 ex (503) 639-1296 c.com
THIS HUN BE PAF WI PERM	DRAWING IS ITAIR CLEANSU REPRODUCED RT, NOR DELIV ITHOUT THE EX (ISSION OF HU	THE PF ITE AN IN WH ERED T XPRESS NTAIR	ROPERTY OF D CAN NOT OLE OR IN TO OTHERS 5 WRITTEN CLEANSUITE.		T Phone (503 HOS	Particular Particular	th Ave 97062 xx (503) 639-1296 c.com
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THIS HUN BE PAF WI PERM DRAWN CHECKED	DRAWING IS ITAIR CLEANSU REPRODUCED RT, NOR DELIV ITHOUT THE EX ISSION OF HU PROVAL	THE PF ITE AN IN WH ERED T XPRESS NTAIR	ROPERTY OF D CAN NOT OLE OR IN TO OTHERS 5 WRITTEN CLEANSUITE.		T Phone (503 HOS HTING	Address Address Address Address Address Address Address Address Address Address Address	The Ave 97062 1x (503) 639-1296 1com Te_ OR CULATIONS
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THIS HUN BE PAF WI PERM CHECKED CROSSCHI SAFETY PLANNING ENGINEER	DRAWING IS ITAIR CLEANSUI REPRODUCED RT, NOR DELIV ITHOUT THE EX INSION OF HU PROVAL	THE PF ITE AN IN WH ERED T XPRESS NTAIR	ROPERTY OF D CAN NOT OLE OR IN TO OTHERS S WRITTEN CLEANSUITE.	LIG	T Phone (503 HOS HTING	ADDRESS CALC	The Ave 97062 1x (503) 639-1296 1com Te_ OR CULATIONS