FAN COIL SCHEDULE OPER. BASED ON: ELECTRICAL DATA OSA (CFM) COOLING HEATING MARK CFM (IN. WG.) CAPACITY WEIGHT REMARKS CAPACITY MOCP (LBS.) MCA PH MANUFACTURER YOLT ΗZ MODEL (MBH) (MBH) /FC\ 198 60 CARRIER 1990 57Ø Ø.4 60.0 15 208 FX4CNF060 W/ VIBRATION ISOL. HANGING KIT& PROGRAM T-STAT / FC \ 60 170 CARRIER 1600 45Ø Ø.4 48.0 7.5 15 208 FX4CNFØ48 W/ YIBRATION ISOL. HANGING KIT& PROGRAM T-STAT /FC\ 144 60 CARRIER 260 Ø.4 36*.*Ø 208 FX4CNFØ36 W/ YIBRATION ISOL. HANGING KIT& PROGRAM T-STAT 36*.*Ø 15 \ 3 / FC 60 170 385 Ø.4 48.0 7.5 15 208 CARRIER FX4CNFØ48 W/ YIBRATION ISOL. HANGING KIT& PROGRAM T-STAT

CONDENSING UNIT SCHEDULE

MARK	LOCATION	+0144	SEER	HSPF	COOLING CAF	PACITY (MBH)	HEATING	AMB. TEMP.		ELECT	RICAL DA	ŤΑ		OPER. WEIGHT	BASED ON:		
HARN	LOCATION	TONAGE	JEER	HOFF	TOTAL	SENSIBLE	CAPACITY (MBH)	**************************************	MCA	MOCP	VOLT	PH	HZ	(LBS.)	MANUFACTURER	MODEL	REMARKS
(CU)	GROUND	5	15.0	8.2	60.0	49.5	60.0	98	22.9	40	2Ø8	3	60	306	CARRIER	25HHA46Ø	LONG REFRIG. LINE SET KIT
CU 2	GROUND	4	15.0	8.2	48.0	42.Ø	48.0	98	18.6	3Ø	208	3	60	278	CARRIER	25HHA448	LONG REFRIG. LINE SET KIT
CU 3	GROUND	3	15.0	8.2	36.0	3Ø.Ø	36.0	98	12.8	2Ø	2Ø8	3	60	232	CARRIER	2 5 HHA436	LONG REFRIG. LINE SET KIT
CU 4	GROUND	4	15.0	8.2	48.0	42.Ø	48 <i>.</i> Ø	98	18.6	3Ø	208	3	60	278	CARRIER	25HHA448	LONG REFRIG. LINE SET KIT

FAN SCHEDULE

					FAN DA	ATA						OPER.	BASED ON:		
MARK	DESCRIPTION	SERVICE	CFM	DRIVE	ESP (IN. WG.)	RPM	SONES	ELECTRI	CAL D.	ATA PH	HZ	WEIGHT (LBS.)	MANUF.	MODEL	REMARKS
EF 1	WALL MOUNTED EXHAUST FAN	GARAGE 103	4,500	BELT	Ø.25	886	22	1	208	3	60	184	GREENHECK	CWB-200-10	W/ BD AND MANUAL TIMER Ø-3Ø MIN, INTERLOCK W/ CO2 SYSTEM.
EF 2	CEILING EXHAUST FAN	RESTROOM 102,104,122,124,140	110	DIRECT	Ø.25	940	1.4	8.4 WATTS	115	1	60	12	GREENHECK	SP-110-VG	W/BD, CONTROLLED BY LIGHT SWTICH
EF 3	CEILING EXHAUST FAN	RESTROOM-107\$109 LOCKER-108\$ 121	150	DIRECT	Ø.25	1050	3.0	128 WATTS	115	1	60	10	GREENHECK	5P-B150	W/BD, CONTROLLED BY LIGHT SWTICH
EF 4	CEILING EXHAUST FAN	LOCKERS-123	200	DIRECT	Ø.25	900	2.00	48.2 WATTS	115	1	60	10	GREENHECK	SP-A200	W/BD, CONTROLLED BY LIGHT SWTICH
EF 5	CEILING EXHAUST FAN	CELL-129	5Ø	DIRECT	Ø.125	625	1.4	Ø.5 AMPS	115	1	60	9	GREENHECK	5P-B50	W/BD, CONTROLLED BY LIGHT SWTICH

UNIT HEATER

MARK	DESCRIPTION	CFM	HEATING	ELE	CTRIC	CAL D	ДТД	OPER. WEIGHT	BAS	ED ON	
	DESCRIPTION		CAPACITY (BTUH)	KW	Y	PH	ΗZ	(LBS.)	MANUF.	MODEL	REMARKS
UH 1	ELECTRIC UNIT HEATER	83Ø	51,200	15	208	3	60	74	MODINE	HERI50	PROVIDE WITH MOUNTING KITS, AND THERMOSTAT
UH 2	ELECTRIC UNIT HEATER	83Ø	51,200	15	208	3	60	74	MODINE	HERI5Ø	PROVIDE WITH MOUNTING KITS, AND THERMOSTAT

COMPUTER CONDENSING UNIT SCHEDULE (COOLING ONLY)

								`			•		
MARK	LOCATION	SEER	TOTAL	AMB.		ELECT	RICAL D	ATA		OPER. WEIGHT	BASED ON:		
HARN	LOCATION	SEER	MBH	*F	MCA	MOCP	VOLT	14	HZ	(LBS.)	MANUFACTURER	MODEL	REMARKS
CCU	GROUND	16.0	12.0	105	10.0	15.0	208	1	60	166	CARRIER	38GVCØ12	W/LOW AMBIENT KIT, LONG LINE REFRIG LINES APPLICATION

COMPUTER FAN COIL SCHEDULE

MARK	DESCRIPTION	SERVICE	CFM	OSA	ESP	COOLING TOTAL			ELEC	TRICAL I	DATA		OPER. WEIGHT	BASED ON:		REMARKS
<u> </u>	DESCRIPTION	JERVICE)	(CFM)	(IN. WG.)	MBH	SENSIBLE	MCA	MOCP	YOLT	Ī.	HZ	(LBS.)	MANUFACTURER	MODEL	REITARCO
	HIGH WALL MOUNTED	COMPUTER ROOM	341	*	Ø.3	12.00	12.Ø	**	**	2Ø8	1	60	31	CARRIER	40GVC012	W/ WALL MOUNTING KIT, T-STAT, CONDENSATE PUMP

* FOR PROCESS LOAD ONLY ** POWERED FROM OUTDOOR UNIT

NOTE: DIFFUSERS & GRILLES SHALL HAVE FRAMES TO MATCH THE CEILINGS IN WHICH THEY ARE INSTALLED.

I.E.: T-BAR CEILING: LAY-IN FRAMES, GYPSUM BOARD CEILING: FLUSH MOUNTED FRAMES.

DIFF	USERS, (GRILLES	S & REGISTER	RS							
MADE	NECK CITE	n AMPER	BASED ON:			N 4 DV		n AMDED	BASED ON:		
MARK	NECK SIZE	DAMPER	MANUFACTURER	MODEL	REMARKS	MARK	NECK SIZE	DAMPER	MANUFACTURER	MODEL	REMARKS
A	8'x8'	MVD	TITUS	MCD		AA	10"×10"	MVD	TITUS	5 <i>0</i> F	EGGCRATE
В	10"×10"	MVD	TITUS	MCD		BB	12"×12"	MVD	TITUS	5 <i>0</i> F	EGGCRATE
(c)	12"×12"	MVD	TITUS	MCD		(cc)	14"x14"	MVD	TITUS	5ØF	EGGCRATE

GENERAL NOTES

CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTION & PROVIDE REPAIR OF ADJACENT EXISTING SURFACES, EQUIPMENT, AREAS & PROPERTY THAT MAY BE DAMAGED AS RESULT OF ANY DEMOLITION AND/OR NEW WORK.

- 2. CONTRACTOR SHALL COORDINATE ALL DUCT, PIPE AND EQUIPMENT LOCATIONS WITH ELECTRICAL, STRUCTURAL, PLUMBING AND ALL OTHER TRADES.
- 3. ROOF ACCESS LADDER SHALL COMPLY WITH SECTION 910.8 CMC.
- PROVIDE SMOKE DETECTOR IN MAIN SUPPLY AIR DUCTS OF AIR MOVING SYSTEMS EXCEEDING 2,000 CFM PER SECTION 609.0 CMC.
- EQUIPMENT ACCESS SHALL CONFORM TO UBC SECTION 505.
- 6. DUCTWORK FABRICATION AND INSTALLATION SHALL CONFORM TO THE "HYAC DUCT CONSTRUCTION STANDARDS-METAL AND FLEXIBLE" AS PUBLISHED BY SMACNA 1995 EDITION.
- MATERIAL EXPOSED WITHIN A DUCT OR PLENUM SHALL COMPLY WITH SECTION 602.2 CMC.
- 8. PROVIDE BALANCING YOLUME DAMPERS IN EACH BRANCH DUCT AND EACH MAIN DUCT TO PROVIDE FOR COMPLETE AIR BALANCING. PROVIDE ADEQUATE ACCESS. OPPOSED BLADE DAMPER (OBD) ARE NOT CONSIDERED BALANCING DAMPER.
- BE PROVIDED WITH ACCESS PANEL ON CEILING OR REMOTE VOLUME DAMPER SHALL BE PROVIDED.
- 10. ALL DRAWINGS ARE CONSIDERED TO BE PART OF THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REVIEW & COORDINATION OF ALL DRAWINGS PRIOR TO ANY CONSTRUCTION, INCLUDING ARCHITECTURAL, STRUCTURAL, MECHANICAL, PLUMBING & ELECTRICAL. ANY DISCREPANCIES THAT OCCUR SHALL BE BROUGHT TO THE ATTENTION OF ENGINEER PRIOR TO THE START OF CONSTRUCTION SO THAT CLARIFICATION CAN BE ISSUED. ANY WORK PERFORMED IN CONFLICT WITH THE CONTRACT DOCUMENTS OR ANY CODE REQUIREMENT SHALL BE CORRECTED BY THE CONTRACTOR AT HIS OWN EXPENSE.
- ALL WORK SHALL BE IN ACCORDANCE WITH CITY CODES, STATE OF CALIFORNIA ENERGY CONSERVATION STANDARDS AND ALL OTHER APPLICABLE CODES.

ENERGY COMPLIANCE NOTES

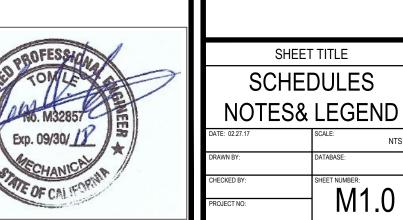
THE FOLLOWING SHALL BE COMPLIED WITH UNLESS MORE RESTRICTIVE REQUIREMENTS ARE SHOWN ON THE PLANS OR CALLED FOR IN THE SPECIFICATIONS.

- 1. INSULATION MATERIAL SHALL MEET THE CALIFORNIA QUALITY STANDARD PER SECTION 118 ENERGY EFFICIENCY STANDARDS (E.E.S.)
- 2. DOORS AND WINDOWS SHALL MEET THE MINIMUM INFILTRATION REQUIREMENTS PER SECTION 116 E.E.S.
- 3. ALL PIPING AND DUCTWORK SHALL BE INSULATED CONSISTENT WITH THE REQUIREMENTS OF SECTIONS 118, 123, 124 AND TABLE 6D OF C.M.C.
- 4. ALL HYAC EQUIPMENT AND APPLIANCES SHALL MEET THE REQUIREMENTS PER SECTIONS 111-113, 115 AND 120-129 E.E.S.

LEGENI)	
SYMBOL	ABBR.	DESCRIPTION
$\langle x \rangle =$		- EQUIPMENT SYMBOL - NUMBER
		DUCT (RECTANGULAR OR ROUND)
<u> </u>	(L)	DUCT (LINED)
====	(L)	DUCT (LINED)
/////////////////////////////////////		EXISTING TO REMOVE
		NEW FLEXIBLE DUCT
<u> </u>	FC	DUCT FLEXIBLE CONNECTION
1		SQUARE ELBOW
		WITH TURNING VANES
		RADIUS ELBOW
		DUCT TRANSITION
		45 DEGREE BRANCH TAKE-OFF
		END DOUBLE BRANCH WITH TURNING VANES
	SA	SUPPLY AIR DIFFUSER/DUCT
	RA	RETURN AIR GRILLE/DUCT
	EΑ	EXHAUST AIR GRILLE/DUCT
	up	DUCT RISE/UP THRU ROOF OR FLOOR
\times	DN	DUCT DROP/DOWN THRU ROOF OR FLOOR
<u>up</u>		DUCT GO UP
DN DN	AD AD	DUCT GO DOWN ACCESS DOOR
	AFF	ABOVE FINISHED FLOOR
	ARCH	ARCHITECTURAL
	CFM	CUBIC FEET PER MINUTE
	φ D/L	DIAMETER DOOR LOUVER
	DWG	DRAWING
—	FD	FIRE DAMPER
├ ◀	FSD SM	FIRE SMOKE/DAMPER
(SD)	ا ً ا ت	SHEETMETAL SMOKE DETECTOR
(SWITCH
(T)		THERMOSTAT (MOUNT @ 48" AFF.)
- ◆ ►	U/C	UNDERCUT
1	MVD	MANUAL VOLUME DAMPER
⊕	D 00	CARBON MONOXIDE DETECTOR
_	POC	POINT OF CONNECTION DIRECTION OF FLOW
	000	
	OBD	OPPOSED BLADE DAMPER



REFERS TO "SMACNA" HYAC DUCT CONSTRUCTION STANDARDS



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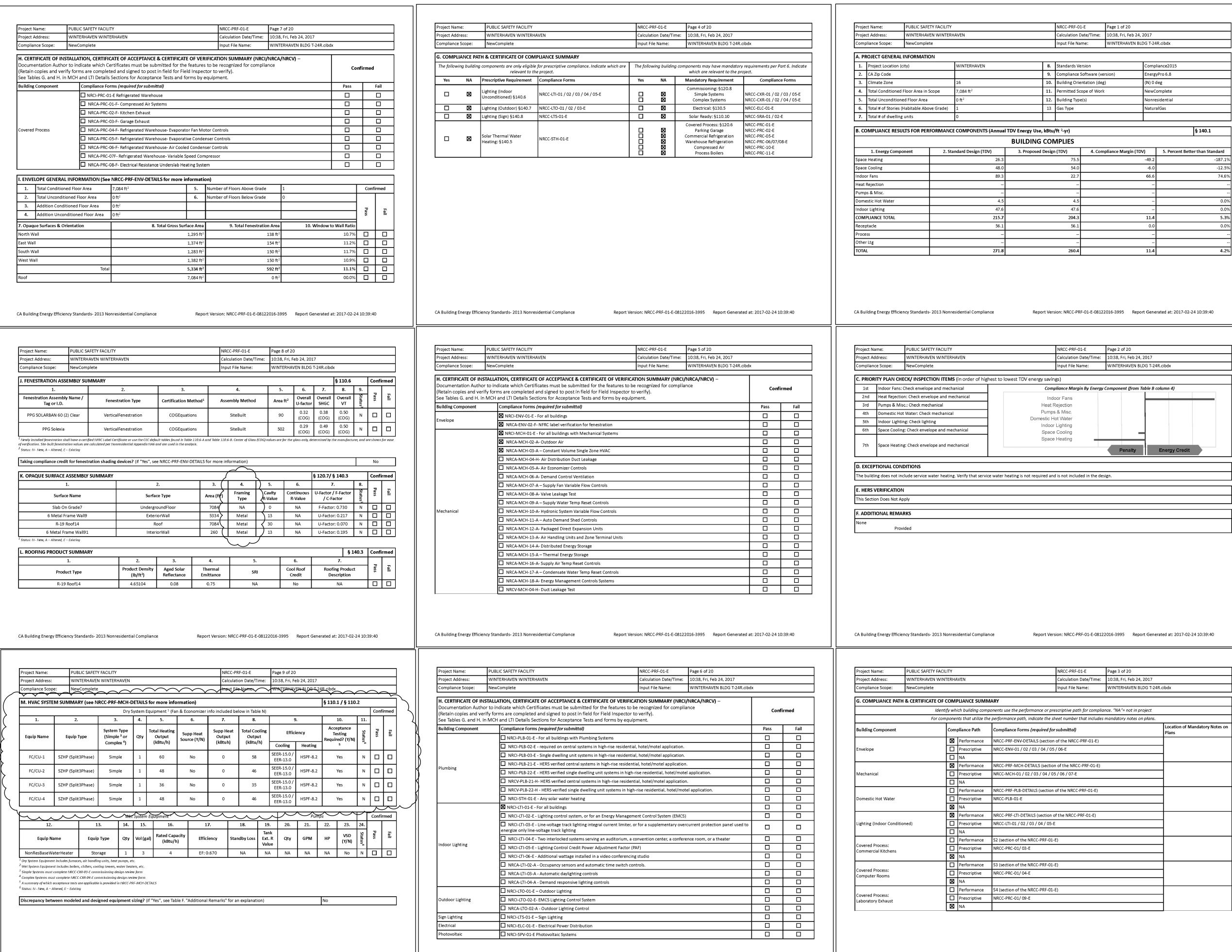
(760) 482-4236

PROJECT

WINTERHAVEN UBLIC SAFETY FACILIT

REVISIONS

DESCRIPTION



Report Version: NRCC-PRF-01-E-08122016-3995 Report Generated at: 2017-02-24 10:39:40

CA Building Energy Efficiency Standards- 2013 Nonresidential Compliance

CA Building Energy Efficiency Standards- 2013 Nonresidential Compliance

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Report Version: NRCC-PRF-01-E-08122016-3995 Report Generated at: 2017-02-24 10:39:40

Report Version: NRCC-PRF-01-E-08122016-3995 Report Generated at: 2017-02-24 10:39:40 ENGINEERS, INC 9845 ERMA RD SUITE 204 SAN DIEGO, CA 92131 PH 858 715-6601 FAX 858 433-7587 JOB * 15.74.00

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PROJECT

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REVISIONS DESCRIPTION

WINTERHAVEN LIC SAFETY FACI

Companies Comp	Iress: NewComplete LOAD HOURS Ermal Zone Name BEDROOM ZONE 3-LIVING ZONE 4-FITNESS ZONE 3-LOUNGE ZONE 7-OFFICE ZONE 11-OFFICE ZONE 12-CONFERENCE Y USE SUMMARY Energy Component Space Heating Space Cooling Indoor Fans Heat Rejection Pumps & Misc. Domestic Hot Water Indoor Lighting COMPLIANCE TOTAL Receptacle Process Other Ltg TOTAL Name: PUBLIC SAF Address: WINTERHAY Ince Scope: NewComple WENTATION AUTHOR'S DEC Intertificate of Comple Inter	Cooling Unmet Load Hour Limit for Thermal Zone	1684 4613 2149.25 4004.25 2473.75 2645.25 2448.75 3594 Te Proposed Design Site (MWh) (MV) 23.5 8.5 -0. 7.2 20	### Table 10:38, Fri, Feb 24, 20 me: WINTERHAVEN BLOG Heating Unmet Load Hour Limit Thermal Zone	To Table 24. Cibdx To Proposed Heating 171 16.	715.25 6 647.5 0 48.75 11.25 110.5 0
March Marc	Iress: NewComplete LOAD HOURS ermal Zone Name BEDROOM ZONE 3-LIVING ZONE 4-FITNESS ZONE 5-LOUNGE ZONE 7-OFFICE ZONE 11-OFFICE ZONE 12-CONFERENCE Y USE SUMMARY Energy Component Space Heating Space Cooling Indoor Fans Heat Rejection Pumps & Misc. Domestic Hot Water Indoor Lighting COMPLIANCE TOTAL Receptacle Process Other Ltg TOTAL Name: PUBLIC SAF Address: WINTERHAY Indee Scope: NewComplete WENTATION AUTHOR'S DECeptation of Complete Indee Scope: NewComplete WENTATION AUTHOR'S DECeptation of Complete WENTATION AUTHOR	Cooling Unmet Load Hour Limit for Thermal Zone	Proposed Cooling Unmet Load Hours	### Total Properties of Page 14 of 20 ate/Time: 10:38, Fri, Feb 24, 20 me: WINTERHAVEN BLOG #### Heating Unmet Load Hour Limit Thermal Zone	To Table 24. Cibdx To Proposed Heating 171 16.	715.25 6 647.5 0 48.75 11.25 110.5 0
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	Heat Rejection Pumps & Misc. Domestic Hot Water Indoor Lighting COMPLIANCE TOTAL Receptacle Process Other Ltg TOTAL Energy Efficiency Standards-: Name: PUBLIC SAF Address: WINTERHA' ance Scope: NewComple that this Certificate of Complientation Author Name: Tom Q	13.3 49.0 15.3 64.3 AFETY FACILITY AVEN WINTERHAVEN colete ECLARATION STATEMENT Diance documentation is accurate and con			19.3 19.3 19.3 19.3 Generated at: 2017-02-2	-24 10:5
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BATHROOM Uncontrolled 1 NA	I hereby affirm that I am eli	RATION STATEMENT of perjury, under the laws of the State of eligible under the provisions of Division 3 o	CEA Identification (If ap California: of the Business and Professions Code to sig	gn this document as the person res	sponsible for its preparati	tion; ar
20ne48-FRM	I affirm that I am eligible un	under the provisions of Division 3 of the Bu	tineer, electrical engineer, or I am a license usiness and Professions Code by section 55		nent as the person respon	nsible fo
Name	I affirm that I am eligible un	n a licensed contractor performing this wor under Division 3 of the Business and Profes	rk. ssions Code to sign this document because	se it pertains to a structure or type o	of work described as exer	empt pu
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Addres Non-Freence I Name: Public Safetry Facility Report Version: NRCC-PRF-01-E Report Version: NRCC-PRF-01-E Regist Addres Project Name: Public Safetry Facility NRCC-PRF-01-E Page 18 of 20 Project Name: Public Safetry Facility NRCC-PRF-01-E Page 18 of 20 Project Address: Winterhaven winterhaven Project Address	sible Envelope Designer Name ny: MPA ARCHITECTS INC	ie:	Signature:			
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SOLAR HOT WATER HEATING SLIMMARY (Adapted from NRCC-STH-01)			1	1		
is Section Does Not Apply	F-ENV-DETAILS -SECTI	TION START-				
MECHANICAL HVAC ACCEPTANCE TESTS & FORMS (Adapted from 2013-NRCC-MCH-01-E) A. OPAQU	E SURFACE ASSEMBLY DE			ı		Со
eclaration of Required Acceptance Certificates (NRCA) – Acceptance Certificates that may be submitted. (Retain copies and verify forms are completed and signed to post in field for Field Surf	1. Surf	2. rface Type	3. Description of Assembly Layers		4. Notes	Pass
spector to verify).	- Juli		Slab Type = UnheatedSlabOnGrade			
Test Description Part Part	on Grada?	rgroundFloor	Insulation Orientation = None Insulation R-Value = RO			
	On Grade7 Underg		Stucco - 7/8 in. Vapor permeable felt - 1/8 in.	13		
		teriorWall	Metal framed wall, 16in. OC, 3.5in., R-1 Gypsum Board - 1/2 in.	13		
Pass Fail Pass ECMS ECMS ECMS ECMS FOD for DX Unit Requiring or units esting or units erification FDD for DX Unit Control Air Dist. Energy Stora DX AC Air Dist. Demand Sh Control Control Control Air Dist. Ducts Air Dist. Ducts Supply Water Ter Reset Valve leakage		teriorWall	Asphalt shingles - 1/4 in.			

oject Name:			FETY FA							N	RCC-PRF-0	1-E	Page	18 of 20							Project Name:	PUBLIC SAFETY FACILITY			NRCC-PRF-01-E	Page 15 of 20				
oject Address:	WI	INTERHA	AVEN W	'INTERH <i>A</i>	VEN					Ca	alculation	Date/Time		8, Fri, Feb							Project Address:	WINTERHAVEN WINTERHA	AVEN		Calculation Date/Time					
ompliance Scope:	Ne	wComp	lete							In	put File Na	me:	WIN	TERHAVEI	N BLDG T-	24R.cibdx	(Compliance Scope:	NewComplete			Input File Name:	WINTERHAVE	N BLDG T-24R.cibd	× .		
SOLAR HOT WAT	TER HEA	ATING S	UMM	ARY (Ad	apted fr	om NRC	CC-STH-C)1)													NRCC-PRF-ENV-DE	TAILS -SECTION STAR	T-							
is Section Does No	ot Apply																				A ORAQUE CUREACE	A CCENADIV DETAIL C							<u> </u>	
MECHANICAL H	IVAC AC	CEPTA	NCE TE	STS & F	ORMS (Adapted	from 2	013-NRC	СС-МСН-	D1-E)									§ RA	4	A. OPAQUE SURFACE	ASSEMBLY DETAILS	1	3.			4.		Confir	me —
claration of Requi											(Retain co	ies and v	erify form	ns are con	pleted ar	nd signed	to post in	field for	r Field		Surface Name	Surface Type		Description of Asser	mbly Lavers		Notes		Pass	
pector to verify).					ı				1										_					Slab Type = Unheated					_	
Test Description	MCH		MCH	MCH-04A	MCH-05A	MCH-06A	MCH-07A	MCH	MCH-09A	MCH-10A	MCH	MCH-12A	MCH-13A	MCH-	MCH-15A	MCH-16A	MCH-17A	MCH-	Conf	irmed	Slab On Grade7	UndergroundFloor		Insulation Orientati Insulation R-Valu						
·	-02A		-03A	-04A	-05A	-06A	-07A	-08A	-09A	-10A	-11A	-12A	-13A	-14A	-15A	-16A	-17A	-18A						Stucco - 7/8 Vapor permeable fe						
	+		Si	_	Ε̈́Ω				Su	Į	A.		Ą	Die		Sup	0		+		6 Metal Frame Walls	ExteriorWall		Metal framed wall, 16in. Gypsum Board -	. OC, 3.5in., R-13					
uipment	9	<u> </u>	ngle Z	Air D	onom		Suppl	Valve	pply \		to De	DD fo	ıto FI	st. En	TES	ply Ai	Conde Reset							Asphalt shingles						_
equiring # of esting or units		door	one (ist. D	izer Co	DCV	y Fan	leak	Water Reset	Variable Control	eman	or DX	FDD for Zone	nergy Stor DX AC	Syste	r Tem	nser t	ECMS	Pass	Fail	D 40 D 544	D (Vapor permeable fe Plywood - 1/2				Ι,	_	
erification]	Air	Jnitary	ucts	ontrols		VAV	age	Temp.	- Flow	d Shed	Units	r Air &	itorage	ms	ıp. Rese	Water				R-19 Roof14	Roof		Air - Cavity - Wall Roof Ceil Metal framed roof, 16in. (OC, 9.25in., R-30				_	
nResBase	-	+			•				+	<u> </u>						*			+	Н				Gypsum Board - Stucco - 7/8	· · · · · · · · · · · · · · · · · · ·				\rightarrow	_
IWSystem 1								-													6 Metal Frame Wall9	l InteriorWall		Vapor permeable fe	elt - 1/8 in.				- I	
C/CU-1 1	Х		Х					_							-			-						Metal framed wall, 16in. Gypsum Board -					_	
C/CU-2 1	Х		Х																									.		_
C/CU-3 1	Х	_	Х					-													B. OVERHANG DETAI	S (Adapted from NRCC-E	NV-02-E)							
FC/CU-4 1	Х		Х					_			-								1 ⊔		This Section Does Not A	pply								_
EVAPORATIVE C	COOLER	SUMN	/IARY																		C. OPAQUE DOOR SU	MMARY							Con	nfir
is Section Does No	t Apply																				1.		2.	3.	4.	5.	6.	7.		Т
RCC-PRF-LTI-DI	ETAILS	S-SEC	TION	START-																	Opaque Door Assembly / Tag or I.D.	Name I	Door Type	Certification Method	Operation	Area	Overall U-factor	Status ¹	Pass	s
INDOOR CONDI	ITIONED	LIGHT	TING CO	ONTROL	CREDIT	S (Adap	ted fron	n NRCC-	-LTI-02-E)							[§ 1	L40.6				Wood Door26	WoodGreaterThan	nOrEqualTo1.75inThickDoor	DefaultPerformance	Swinging	135	0.500	N		I
is Section Does No						•			•												¹ Status: N - New, A – Altered, E	– Existina								

Project Name:	F	PUBLIC SAFE	TY FACILIT	Y				NRCC-PRF	-01-E	Page	10 of 20				_
Project Address:	\	WINTERHAVE	EN WINTEI	RHAVEN				Calculatio	n Date/Tim	e: 10:3	3, Fri, Feb 24, 2017				
Compliance Scop	pe: N	NewComplet	te					Input File	Name:	WIN.	TERHAVEN BLDG T-24R.c	cibdx			_
										_				_	_
N. ECONOMIZ		SYSTEMS S	UMMAR				1					§ 140.	4	Confi	irn T
1.	2.				3.		<u> </u>			4.		5.			l
	Outside Air	<i>;</i>		Sup	ply Fan				Reti	ırn Fan				, p	l
Equip Name	CFM	CFM	НР	ВНР	TSP (inch WC)	Control	CFM	НР	ВНР	TSP (inch WC)	Control	Economizer		Pass	
FC/CU-1	568	1990	0.500	0.500	0.80	ConstantVolume	NA	NA	NA	NA	NA	NoEconom	nizer		T
FC/CU-2	322	1600	0.250	0.250	0.50	ConstantVolume	NA	NA	NA	NA	NA	NoEconom	nizer		t
FC/CU-3	240	1200	0.250	0.250	0.66	ConstantVolume	NA	NA	NA	NA	NA	NoEconom	nizer		T
FC/CU-4	381	1600	0.250	0.250	0.50	ConstantVolume	NA	NA	NA	NA	NA	NoEconom	nizer		T
	1					2.					3.		, ₂		
	Equip	Name				Equip Type					Controls		Pass		
	FC/C	CU-1				SZHP				No Supp	DCV Controls Economizer y Air Temp. Control Optimum Start				
	50/0	CU-2				SZHP				No No Supp	DCV Controls Economizer y Air Temp. Control Optimum Start				E
	FC/C									No	DCV Controls Economizer y Air Temp. Control				Г
	FC/C	 CU-3				SZHP					Optimum Start				
						SZHP SZHP				No No No Supp	Optimum Start DCV Controls DECONOMIZER DE				

Project Name:	PUBLIC SAFETY FACILITY				NRCC-PRF-01-E		Page 11 of 20				
Project Address:	VINTERHAVEN WINTERHAVEN				Calculation Date	e/Time:	10:38, Fri, Feb 24, 20	017			
Compliance Scope:	NewComplete				Input File Name	:	WINTERHAVEN BLD	G T-24R.cibdx			
P. SYSTEM DISTRIBUTIO	N SUMMARY							§ 120.4/ § 140.4(I)			
					Dry Syst	tem Distr	ibution		Co	nfirme	d
1.	2.		3.		4.			5.			
			Duct Leakage	and Spaling	Duct Leakage		D	ucts	Pass		Fail
Equip Name	Equip Type		Required p	- 1	verified per NA NA2	A1 and	Insulation R-Value	Location	×		=
FC/CU-1	SZHP		No	,	No		8	Unconditioned			
FC/CU-2	SZHP		No	,	No		8	Unconditioned			
FC/CU-3	SZHP		No	,	No		8	Unconditioned			
FC/CU-4	SZHP		No	,	No		8	Unconditioned			
· · · · · · · · · · · · · · · · · · ·	el Occupancy? (if "Yes", see NRC										0
Q. INDOOR CONDITION	ED LIGHTING GENERAL INFO	(see NRCC-PRF	-LTI-DETAILS	for more info) ³					§ 14	
										Confi	med
1.	2.										
	+	3			4.		5	•			-
Occupancy Type ¹	Conditioned Floor Area ² (ft ²)	Installed Ligi (Wa	nting Power	Lighting Co	4. ontrol Credits /atts)		5 Additional (Cust		\dashv	Pass	Fail
Occupancy Type ¹	I	Installed Ligi	nting Power	Lighting Co	ontrol Credits	Area C			etts)	Pass 🔲	
Occupancy Type ¹ Housing, Public and Common Areas: Multi-family, Dormitory	I	Installed Ligi	nting Power tts)	Lighting Co	ontrol Credits	Area Ca	Additional (Cust	om) Allowance	itts)		
Housing, Public and Common Areas:	(ft²) 501	Installed Ligi (Wa	nting Power tts)	Lighting Co	ontrol Credits /atts)	Area C	Additional (Cust ategory Footnotes (Watts)	om) Allowance Tailored Method (Wa	itts)		Fail

CA Building Energy Efficiency Standards- 2013 Nonresidential Compliance

CA Building Energy Efficiency Standards- 2013 Nonresidential Compliance

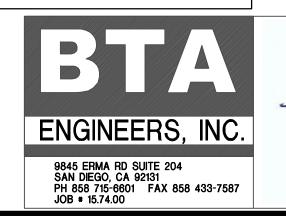
CA Building Energy Efficiency Standards- 2013 Nonresidential Compliance

Report Version: NRCC-PRF-01-E-08122016-3995 Report Generated at: 2017-02-24 10:39:40

Report Version: NRCC-PRF-01-E-08122016-3995 Report Generated at: 2017-02-24 10:39:40

Report Version: NRCC-PRF-01-E-08122016-3995 Report Generated at: 2017-02-24 10:39:40

Project Name:	PUBLIC SAFETY FACIL			NRCC-PRF-01-		Page 12 of 20			
Project Address:	WINTERHAVEN WINT	ERHAVEN		Calculation Da	te/Time:	10:38, Fri, Feb 24, 2	2017		
Compliance Scope:	NewComplete			Input File Nam	e:	WINTERHAVEN BLD	OG T-24R.cibdx		
Q. INDOOR CONDITION	NED LIGHTING GEN	ERAL INFO	(see NRCC-PRF-LTI-DETAILS	for more info)³				§ 14	10.6
								Confi	rmed
1.	2.		3.	4.		5	5.		
Occupancy Type ¹	Conditioned Fl (ft²)	oor Area ²	Installed Lighting Power (Watts)	Lighting Control Credits (Watts)		Additional (Cus	tom) Allowance	Pass	Fail
					Area C	ategory Footnotes (Watts)	Tailored Method (Watts)		
Office (Greater than 250 square feet in floor area		,	1,527	О		0	o		
Building To	tals: 7,084	,	F 002	0		0	0		
See Table 140.6-C See NRCC-ITI-01-E for unconditing information for existing information for existing the section Does Not A	g spaces modeled is not include property in the property of th	DULE (Adap	5,892 pted from NRCC-LTI-01-E)¹ tments will need to check prescriptive for					§ 13	30.0
See Table 140.6-C See NRCC-tTi-01-E for uncondi Lighting information for existin R. INDOOR CONDITIC This Section Does Not A If lighting power densities were	y spaces modeled is not include the policy of the policy of the compliance model is not included by the policy of the compliance model in the compliance model.	DULE (Adap	pted from NRCC-LTI-01-E) ¹ tments will need to check prescriptive fo				§ 140.9	§ 13	30.0
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See Table 140.6-C See NRC-LTI-01-E for unconditional information for existin R. INDOOR CONDITION This Section Does Not A if lighting power densities were S1. COVERED PROCES This Section Does Not A	pply used in the compliance mode SSUMMARY — ENCL	DULE (Adap	pted from NRCC-LTI-01-E) ¹ tments will need to check prescriptive for the second seco					§ 13	30.0
See Table 140.6-C See NRC-LTI-01-E for unconditional information for existing information for ex	property of the poly of the property of the pr	DULE (Adap	pted from NRCC-LTI-01-E) ¹ tments will need to check prescriptive for the second seco				§ 140.9	§ 13	80.0
See Table 140.6-C See NRCC-ITI-01-E for unconditional for existing information for existing info	property spaces modeled is not included to poly a used in the compliance models SSUMMARY — ENCL poly SSUMMARY — COMPANY — COMP	DULE (Adaption of Building Departion of Buil	pted from NRCC-LTI-01-E) ¹ tments will need to check prescriptive fi KING GARAGES			§ 140.9	§ 140.9	§ 13	30.0
See Table 140.6-C See NRCC-ITI-01-E for unconditional information for existing information for e	p spaces modeled is not included in the LIGHTING SCHE pply used in the compliance mode SS SUMMARY — ENCL pply SS SUMMARY — COM pply SS SUMMARY — COM	DULE (Adaption of Building Departion of Buil	pted from NRCC-LTI-01-E) ¹ tments will need to check prescriptive fi KING GARAGES			§ 140.9	§ 140.9	§ 13	80.0
See Table 140.6-C See NRC-LTI-01-E for unconditing information for existin R. INDOOR CONDITION This Section Does Not A If lighting power densities were S1. COVERED PROCES This Section Does Not A S2. COVERED PROCES This Section Does Not A S3. COVERED PROCES	property of the poly of the po	DULE (Adaption of Building Department of Buil	pted from NRCC-LTI-01-E) ¹ tments will need to check prescriptive for the second sec			§ 140.9	§ 140.9	§ 13	60.0





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AMERICAN INSTITUTE OF ARCHITECTS

CLIENT COUNTY OF IMPERIAL PLANNING & DEV. SERVICES DEPT 801 MAIN STREET

> (760) 482-4236 PROJECT

EL CENTRO, CA 92243

WINTERHAVEN PUBLIC SAFETY FACILIT

REVISIONS DESCRIPTION

SHEET TITLE MECHANICAL TITLE-24 FORMS

	e HAVEN-PUBLIC SAFETY FAC.	Date 2/24/201
DESCRI		2/24/201
	Envelope Measures:	
§110.8(a):	Installed insulating material shall have been certified by the manufacturer to comply with the Californ	nia Quality
	Standards for insulating material, Title 20 Chapter 4, Article 3. All Insulating Materials shall be installed in compliance with the flame spread rating and smoke dense	sity requirements
§110.8(c):	Sections 2602 and 707 of Title 24, Part 2.	
§110.8(f):	The opaque portions of framed demising walls in nonresidential buildings shall have insulation with of no less than R-13 between framing members.	an installed R-val
§110.7(a):	All Exterior Joints and openings in the building that are observable sources of air leakage shall be c weatherstripped or otherwise sealed.	aulked, gasketed,
§110.6(a):	Manufactured fenestration products and exterior doors shall have air infiltration rates not exceeding window area, 0.3 cfm/ft.² of door area for residential doors, 0.3 cfm/ft.² of door area for nonresidential (swinging and sliding), and 1.0 cfm/ft.² for nonresidential double doors (swinging).	
§110.6(a):	Fenestration U-factor shall be rated in accordance with NFRC 100, or the applicable default U-factor	or.
§110.6(a):	Fenestration SHGC shall be rated in accordance with NFRC 200, or NFRC 100 for site-built fenestrapplicable default SHGC.	ation, or the
§110.6(b):	Site Constructed Doors, Windows and Skylights shall be caulked between the unit and the building, weatherstripped (except for unframed glass doors and fire doors).	and shall be

Project Name:	PUBLIC SAFETY FACILITY	NRCC-PRF-01-E	Page 19 of 20
Project Address:	WINTERHAVEN WINTERHAVEN	Calculation Date/Time:	10:38, Fri, Feb 24, 2017
Compliance Scope:	NewComplete	Input File Name:	WINTERHAVEN BLDG T-24R.cibdx

B. INDOOR CONDITIONED LIGHTING MANDATORY LIGHTING CONTROLS (Adapted from NRCC-LTI-02-E) § 130.1

§130.1(a) = Manual area controls; §130.0(b) = Multi Level; §130.1(c) = Auto Shut-Off; §130.1(d) = Mandatory Daylight; §130.1(e) = Demand Responsive

C. TAILORED METHOD CONDITIONED LIGHTING POWER ALLOWANCE SUMMARY AND CHECKLIST (Adapted from NRCC-LTI-04-E) § 140.6 General lighting power (see Table D) 0 General lighting power from special function areas (see Table E) NA Additional "use it or lose it" (See Table G) Total watts 0

D. GENERAL LIGHTING POWER (Adapted from NRCC-LTI-04-E) § 140.6-D

This Section Does Not Apply

E. GENERAL LIGHTING FROM SPECIAL FUNCTION AREAS (Adapted from NRCC-LTI-04-E) § 140.6(c) 3H Confirmed luminance Value Room Cavity Ratio Primary Function Area Room Number Allowed LPD Floor Area (ft²) Pass Fail (LUX) (Table G) NA NA

		Rectangul	lar Spaces					
Room Number	Task/Activity Description	Room Length (ft)	Room Width (ft)	Room Cavity Height (ft)	RCR	Conf	Confirmed	
Noom Number	lassy Activity Description	Koom Length (It)	Nooni Width (It)	ROOM Cavity Height (It)	KCK	Pass F		
NA	NA	NA	NA	NA	NA			

This Section Does Not Apply Note: All applicable spaces are listed under the Non-Rectangular Spaces table

CA Building Energy Efficiency Standards- 2013 Nonresidential Compliance

Report Version: NRCC-PRF-01-E-08122016-3995 Report Generated at: 2017-02-24 10:39:40

Project Name:	PUBLIC SAFETY FACILITY	NRCC-PRF-01-E	Page 20 of 20
Project Address:	WINTERHAVEN WINTERHAVEN	Calculation Date/Time:	10:38, Fri, Feb 24, 2017
Compliance Scope:	NewComplete	Input File Name:	WINTERHAVEN BLDG T-24R.cibdx

G. ADDITIONAL "USE IT OR LOSE IT" (Adapted from NRCC-LTI-04-E)								
1.	2.	3.	4.		Confi	irmed		
Wall Display	Combined Floor Display and Task Lighting	Combined Ornamental and Special Effects Lighting	Very Valuable Merchandise	Allowed Watts	Pass	Fail		
0	0	0	0	0				

5. Wall Display

This Section Does Not Apply

6. Floor Display and Task Lighting This Section Does Not Apply

7. Combined Ornamental and Special Effects Lighting

This Section Does Not Apply

8. Very Valuable Merchandise

This Section Does Not Apply

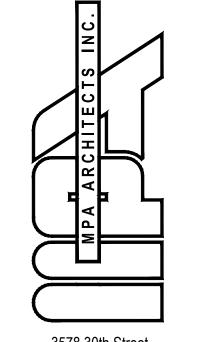
Demand Responsive

Outdoor Controls

H. INDOOR & OUTDOOR LIGHTING ACCEPTANCE TESTS & FORMS (Adapted from NRCC-LTI-01-E and NRCC-LTO-01-E)						§ 130.4	
Declaration of Required Acce	eptance Certificates (NRCA)	-Acceptance Certificates that m Field	nust be verified in the field. (I Inspector to verify).	Retain copies and verify forms	s are completed and signed to	post in 1	field for
Indoor					Outdoor	Confirmed	
Test Des	cription	NRCA-LTI-02-A	NRCA-LTI-03-A NRCA-LTI-04-A		NRCA-LTO-02-A		Π
Equipment Requiring Testing or Verification	# of units	Occ Sensors / Auto Time Switch	Auto Daylight	Demand Responsive	Outdoor Controls	Pass	Fail
Occupant Sensors	0						
Automatic Time Switch	0						
Automatic Daylighting	0						

CA Building Energy Efficiency Standards- 2013 Nonresidential Compliance

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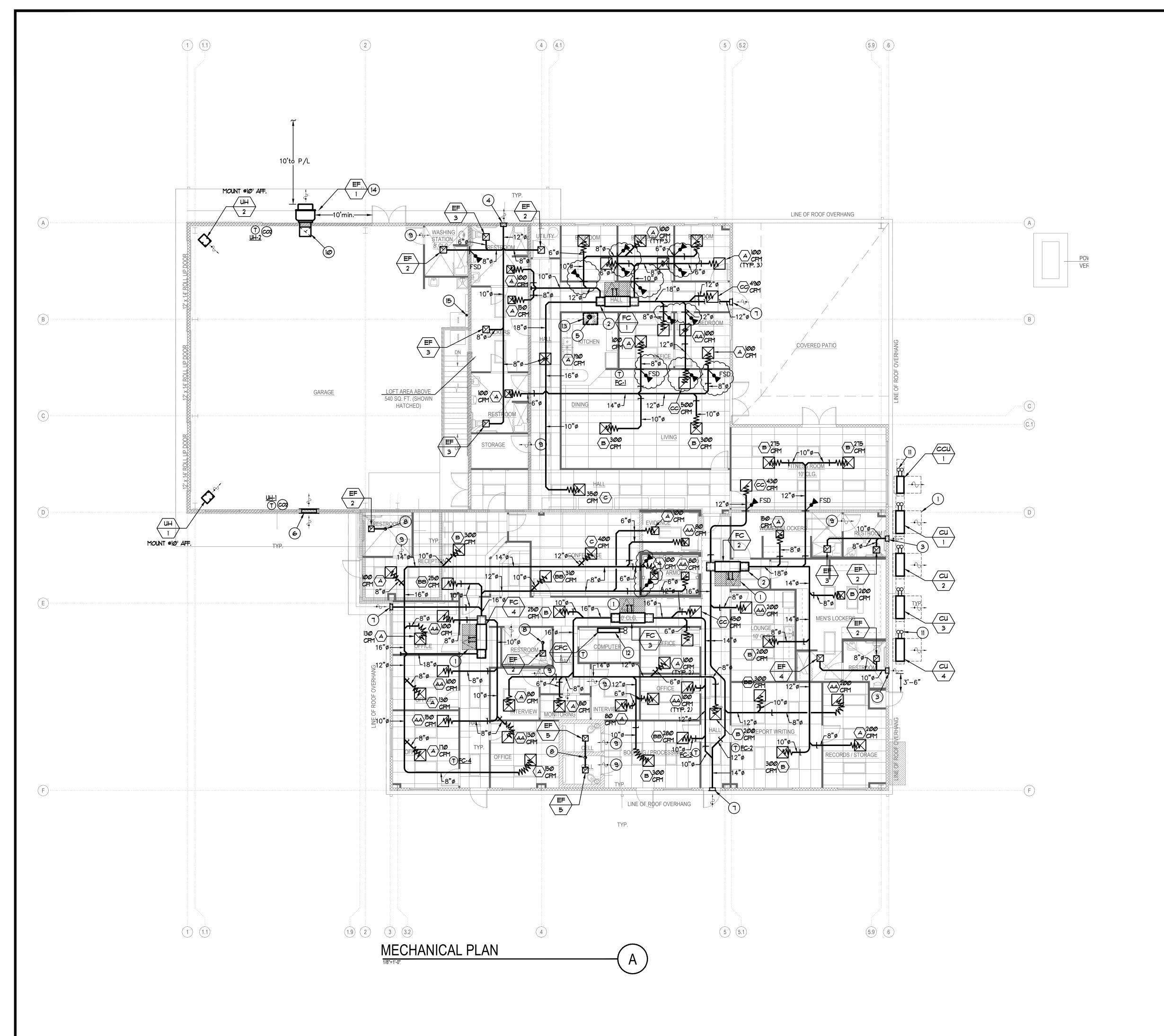
> (760) 482-4236 PROJECT

WINTERHAVEN PUBLIC SAFETY FACILIT

REVISIONS DESCRIPTION



SHEET TITLE MECHANICAL TITLE-24 FORMS



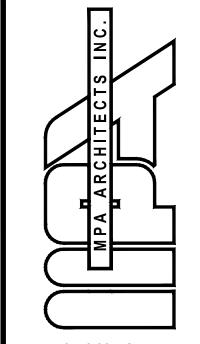
KEYNOTES:

- (1) SERVICE CLEARANCE SHALL BE PROVIDED FOR MAINTENANCE.
- 2 LINED SUPPLY AND RETURN AIR PLENUM SHALL BE PROVIDED PER MECH. CONTRACTOR.
- (3) 16"x12" EXHAUST WALL LOUVER (MIN. 50% FREE AREA).
- (4) 24"x12" EXHAUST WALL LOUVER (MIN. 50% FREE AREA).
- (5) 1" PRANGE HOOD EXHAUST AIR DUCT VENT TO ROOF WITH CAP.
- (6) 42"x30" INTAKE AIR WALL LOUVER WITH BAROMETRIC DAMPER.
- (7) 24"x12" INTAKE AIR WALL LOUVER (MIN. 50% FREE AREA).
- (8) 6" PEXHAUST AIR VENT TO ROOF WITH WEATHER CAP.
- (9) I" UNDERCUT DOOR FOR INTAKE/RETURN AIR.
- 24"x16" EXHAUST AIR DUCT OPENING HIGH AND 24"x16" EXHAUST AIR DUCT DOWN TERMINATE 12" AFF. SEE DETAIL 1
- (I) ROUTE REFRIGERANT LINE SET TO FAN COIL UNITS. M3.00
- 12 HIGH WALL MOUNTED FAN COIL UNIT. SEE DETAIL (M3.1)

 (13) RANGE HOOD WITH BUILT-IN EXHAUST FAN. 30" "VENTAHOOD" UNDER CABINET HOOD 300 CFM AT NORMAL SPEED.
- (14) GARAGE EXHAUST FAN/DUCT TERMINATE MINIMUM 10 FT ABOVE GRADE, TO PROPERTY LINE AND FROM OPENING BACK INTO HE BUILDING OR 3 FT FROM AN EXTERIOR WALL OR ROOF.
- (15) 4" PRYER VENT TO ROOF WITH CAP. TOTAL LENGTH NOT TO EXCEED 14 FT AND 2-90 DEG ELBOW.

GENERAL NOTES:

- 1. ENVIRONMENTAL EXHAUST DUCT TERMINATIONS MAY BE NO CLOSER THAN 3 FEET FROM A PROPERTY LINE OR 3 FEET TO THE WINDOW PER CMC 504.5
- 2. PRODUCT CONVEYING EXHAUST TERMINATIONS MAY BE NO LESS THAN 10 FEET ABOVE GRADE, TO THE PROPERTY LINE, OR FROM OPENINGS BACK INTO THE BUILDING OR 3 FEET FROM AN EXTERIOR WALL OR ROOF PER CMC 506.9



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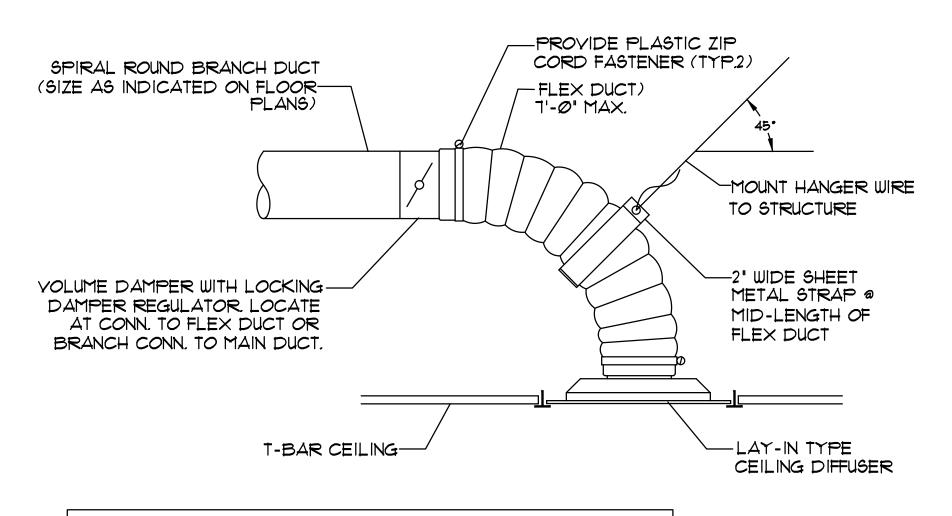
WINTERHAVEN PUBLIC SAFETY FAC

REVISIONS DESCRIPTION

ENGINEERS, INC. 9845 ERMA RD SUITE 204 SAN DIEGO, CA 92131 PH 858 715-6601 FAX 858 433-7587 JOB * 15.74.00

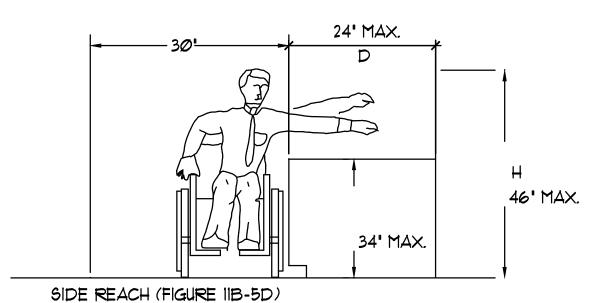


MECHANICAL PLAN



ROUND NECK CEILING DIFFUSER SHOWN. PROVIDE SQUARE TO ROUND TRANSITION (8" MIN. HEIGHT) FOR SQUARE NECK DIFFUSERS.

4 CEILING DIFFUSER MOUNTING DETAIL SCALE: NTS



MAXIMUM SIDE REACH OVER OBSTRUCTION

CORRESPONDING REACH HEIGHTS FOR GIVEN DEPTHS:

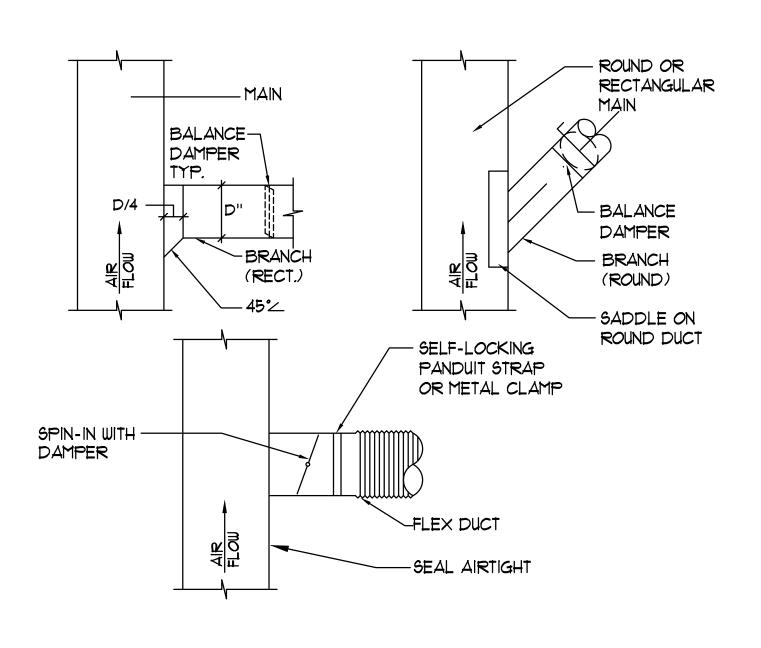
WHEN D = 10" OR LESS, H = 54" MAX. WHEN D = 18" H = 49.5" MAX. WHEN D = 11" H = 53.5" MAX. WHEN D = 19" H = 49.0" MAX. WHEN D = 12" H = 53.0" MAX. WHEN D = 20'' H = 48.5'' MAX.

WHEN D = 13'' H = 52.5'' MAX. WHEN D = 14" H = 51.5" MAX. WHEN D = 15" H = 51.0" MAX. WHEN D = 21" H = 47.5" MAX. WHEN D = 22" H = 47.0" MAX. WHEN D = 23'' H = 46.5'' MAX. WHEN D = 24" H = 46.0" MAX.

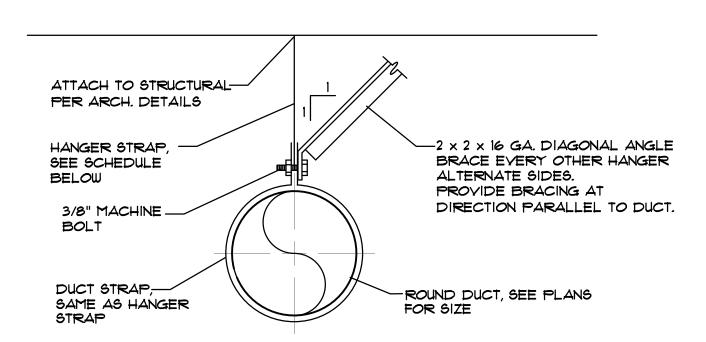
WHEN D = 16" H = 50.5" MAX. WHEN D = 17" H = 50.0" MAX.

THIS DIAGRAM (SIDE REACH FIGURE 11B-5D) ILLUSTRATES THE SPECIFIC REQUIREMENTS OF THESE REGULATIONS AND IS INTENDED ONLY AS AN AID FOR BUILDING DESIGN AND CONSTRUCTION.

5 T-STAT MOUNTING DETAIL
NOT TO SCALE



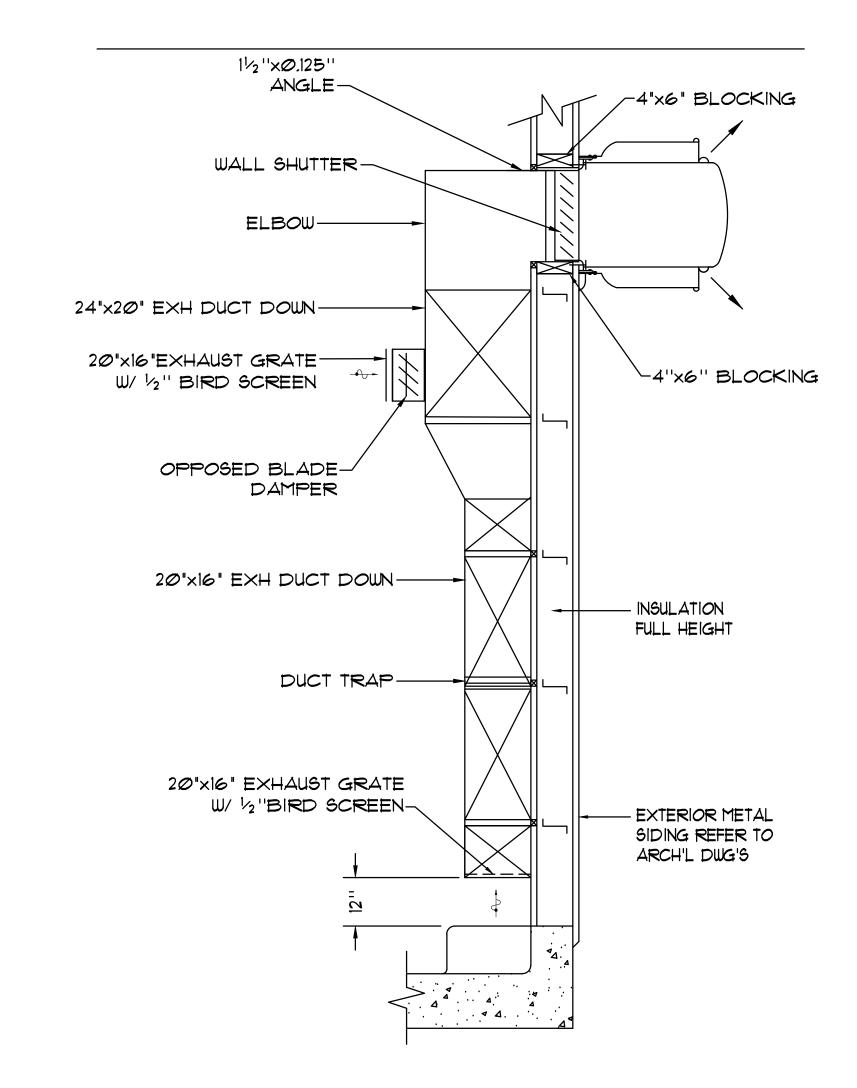
2 TYPICAL DUCT TAKE-OFFS NOT TO SCALE



NOTE: WHERE DUCT IS LARGER THAN 28" O USE 2 1/2x2 1/2x16 GA. VERTICAL ANGLE IN PLACE OF HANGER STRAP AT EACH SEISMIC BRACE.

HANGER STRAP SCHEDULE						
DUCT SIZE STRAP SIZE MAX. LOAD EA. HANGER MAX. SPACING						
UP THRU 10"	1" × 22 GA.	260 LBS	8'-Ø"			
11" TO 18"	1" × 22 GA.	26Ø LB3	6'-0"			
19" TO 24"	1" × 22 GA.	260 LBS	6'-0"			
25" TO 36"	1" × 20 GA.	32Ø LB6	6'-0"			

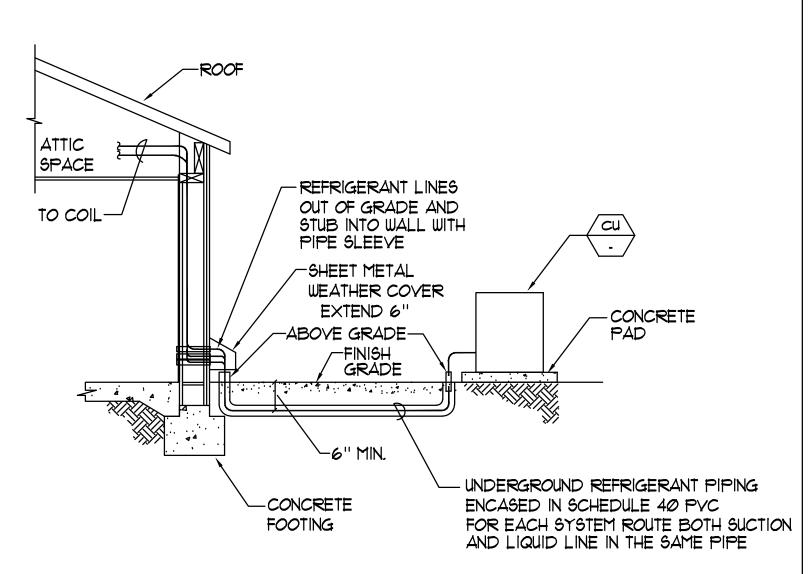
3 TYP. ROUND DUCT SUPPORT DETAIL
SCALE: NTS



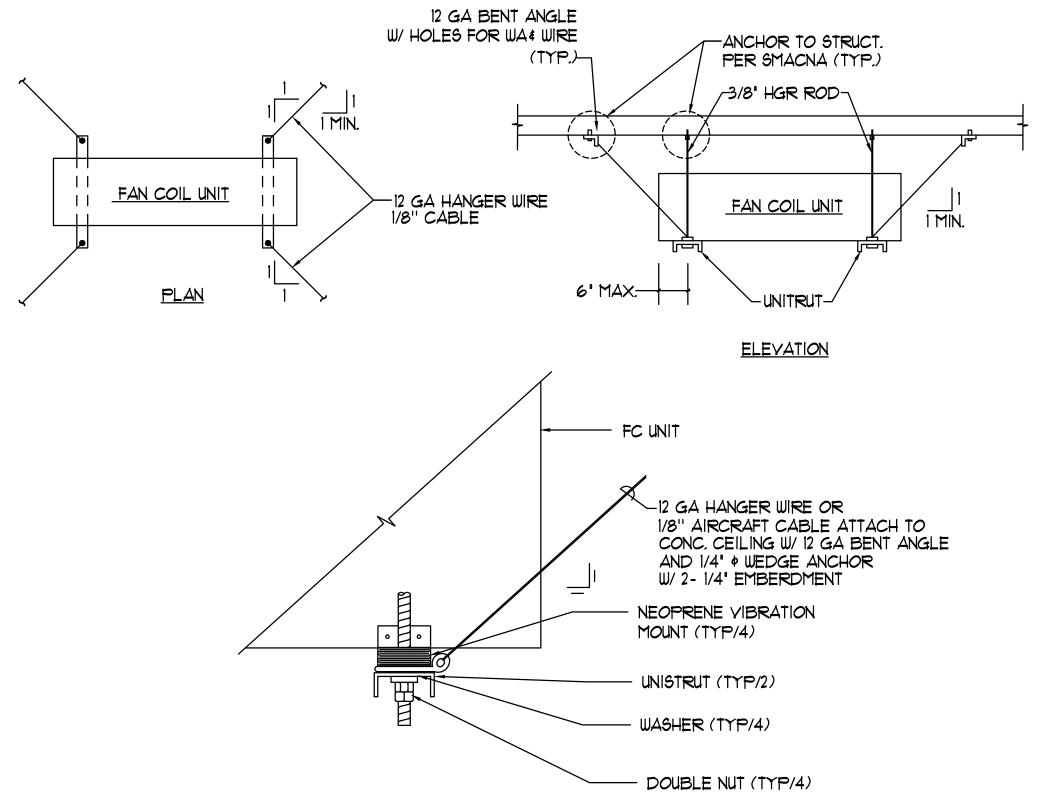




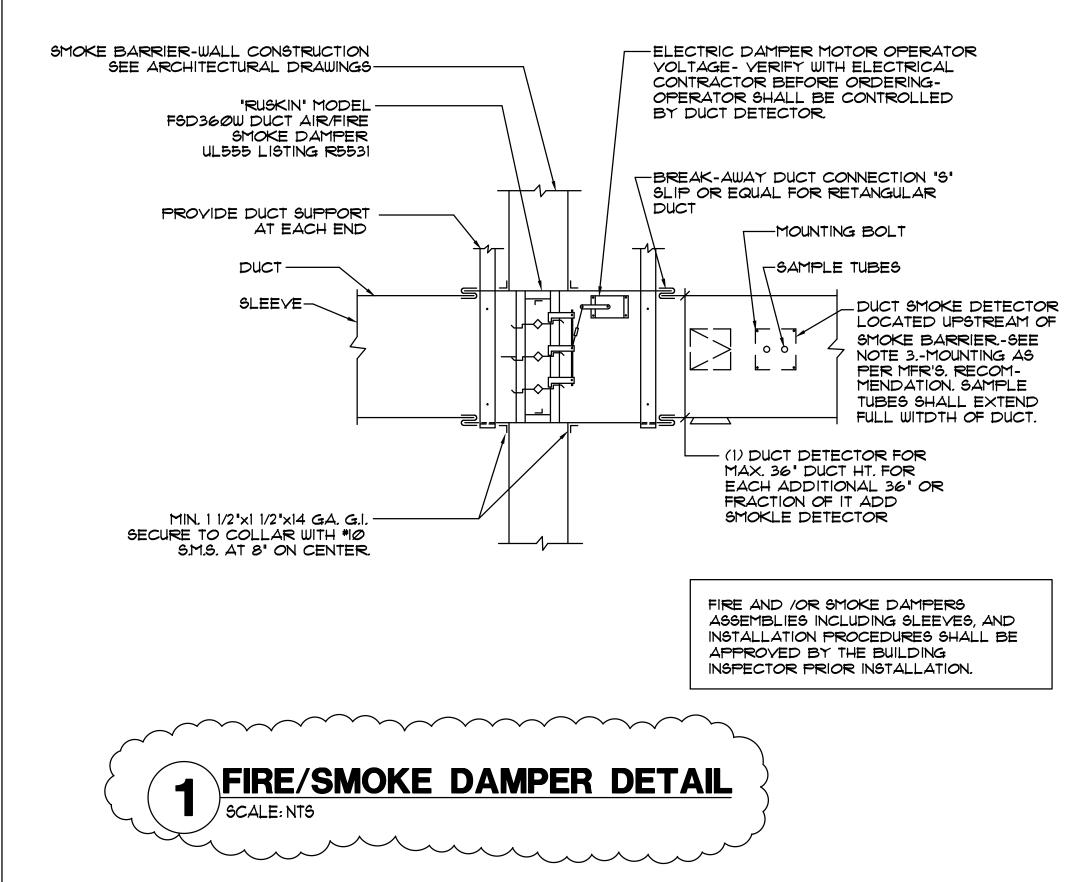




REFRIGERANT LINES THRU WALL







SPECIFICATIONS

3.2 BALANCE

4 HEFRIGE
NOT TO SCALE

A. BALANCE SYSTEM TO AIR QUANTITIES NOTED ON DRAWINGS AND AS RECOMMENDED IN THE ASSOCIATED AIR BALANCE COUNCIL BALANCE HANDBOOK. PROVIDE AN INDEPENDENT TEST AND BALANCE REPORT, BY AN AABC REGISTERED CONTRACTOR, AND SUBMIT 3 SETS FOR EVALUATION AND APPROVAL BY THE ENGINEER. BALANCE TO COMPLY WITH CMC TABLE 4-A. PROVIDE CHART WITH ROOM NAMES, MINIMUM AIR CHANGE RATE, AIR QUANTITIES AND PRESSURIZATION.

- 3.3 GENERAL
- A. REMOVE ALL DEBRIS FROM SITE AT THE END OF EACH WORK DAY.
- B. MATERIALS TO BE INSTALLED PER MANUFACTURERS RECOMMENDATION.
- 3.4 GUARANTEE
- A. ALL MATERIALS AND LABOR ONE YEAR.
- 3.5 OPERATION AND MAINTENANCE MANUALS
- A. OPERATION AND MAINTENANCE MANUALS SHALL BE SUBMITTED FOR THE EQUIPMENT, YALVES AND CONTROLS. SUBMIT 3 SETS FOR EVALUATION AND APPROVAL BY THE ENGINEER.

2.3 AIR DISTRIBUTION

AS INDICATED ON DRAWING

PART 3 EXECUTION

3.1 DUCTWORK

- A. DUCTWORK INSTALLATION SHALL CONFORM TO "HYAC DUCT CONSTRUCTION STANDARDS - METAL AND FLEXIBLE AS PUBLISHED BY SMACNA 1991 EDITION.
- B. DUCT WRAPS SHALL BE INSTALLED BY WRAPPING ENTIRELY ROUND THE DUCT AND SECURING WITH 18 GAUGE GALVANIZED ANNEALED WIRE AT NOT MORE THAN 12 INCH CENTERS. DUCT WRAP SHALL LAP NOT LESS THAN 6 INCH LONGITUDINAL JOINTS. INSULATION AND UNDERSIDE OF DUCTS NOT MORE THAN 12 INCHES IN WIDTH SHALL BE SECURED TO DUCT SURFACES WITH AN APPROVED ADHESIVE. AT ACCESS DOORS, INSULATION SHALL BE NEATLY CUT AROUND DOORS AND EDGES SHALL BE SECURED TO DOOR FRAMES WITH AN APPROVED ADHESIVE.

PART I GENERAL

1.1 CONDITIONS

A. GENERAL AND SUPPLEMENTARY CONDITION APPLY, SEE ARCHITECTURAL SPECIFICATION.

12 REQUIREMENTS

- A. COMPLY WITH THE LATEST LOCALLY ADOPTED VERSION OF THE UNIFORM MECHANICAL CODE, AND ALL OTHER APPLICABLE CODES.
- B. EXAMINE BUILDING THOROUGHLY, LOCATIONS AND ARRANGEMENT IS APPROXIMATE.
- C. APPLY AND PAY FOR ALL PERMITS AND INSPECTIONS.
- D. LABOR BY SKILLED MECHANICS UNDER COMPETENT FOREMAN.

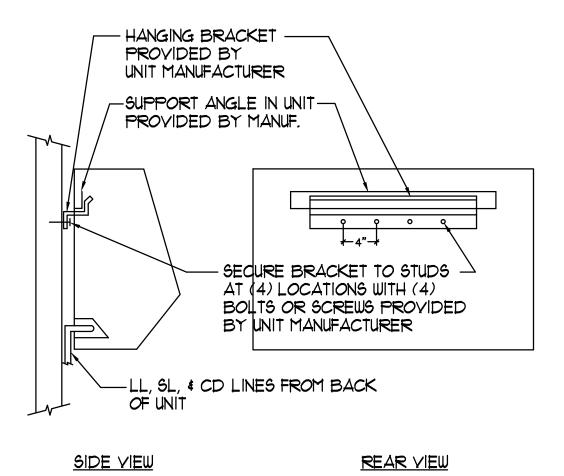
PART 2 PRODUCTS

2.1 DUCTWORK

- A. DUCTWORK: GALVANIZED, GAUGE AND CONSTRUCTION PER RECOMMENDATIONS OF THE LATEST EDITION OF THE "HYAC DUCT CONSTRUCTION STANDARDS - METAL AND FLEXIBLE" AS PUBLISHED BY SMACNA 1991 EDITION.
- B. ADHESIVES AND INSULATION MATERIALS SHALL HAVE A FLAME-SPREAD RATING OF NOT MORE THAN 25 AND A SMOKE DEVELOPED RATING OF NOT MORE THAN 50. ADHESIVE TO BE WATERPROOF.

2.2 EQUIPMENT

AS INDICATED ON DRAWING







SHEET TITLE **MECHANICAL DETAILS** M3.1

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