

GENERAL NOTES:
1. CODES, RULES AND REGULATIONS— DESIGN OF SYSTEM

A) ALL WORK AND MATERIALS SHALL BE IN FULL ACCORDANCE WITH ALL APPLICABLE FEDERAL, STATE, AND LOCAL LAWS, ORDINANCES AND CODES.

B) WHEN THE DRAWINGS CALL FOR MATERIALS OR CONSTRUCTION OF A BETTER QUALITY OR LARGER SIZES THAN REQUIRED BY THE ABOVE MENTIONED CODES AND RULES, WORK SHALL BE AS SPECIFIED OR SHOWN RATHER THAN AS REQUIRED BY CODE. ALL ITEMS OR FEATURES OF THE MECHANICAL SYSTEMS REQUIRED BY CODE SHALL BE INCLUDED, EVEN THOUGH NOT SPECIFIED HEREIN.

C) INSTALLATION OF THE SYSTEMS SHALL BE IN ACCORDANCE WITH THE ABOVE MENTIONED CODES AND REGULATIONS AND ALSO SHALL CONFORM TO GOOD, ACCEPTED MECHANICAL PRACTICES.

2. VOLUME DAMPERS IN ALL BRANCH DUCTS.

3. FLEXIBLE CONNECTIONS AT WALL AND RETURN AIR OPENINGS OF ALL AIR CONDITIONING UNITS.

4. FLEXIBLE DUCTS TO BE GLASS-FLEX 8"-Ø", MAXIMUM IN LENGTH, WHERE APPLICABLE.

5. COORDINATE EXACT LOCATION OF ALL AIR OUTLETS AND INLETS (DIFFUSERS, REGISTERS AND GRILLES) WITH APPROPRIATE ARCHITECTURAL PLAN, AND VERIFY THEIR LOCATION WITH ARCHITECT OR THE JOB BEFORE INSTALLATION. COLOR AS DIRECTED BY ARCHITECT.

6. PROVIDE DUCT LINING TO SUPPLY DUCT OF EACH AC UNIT FOR MINIMUM OF 10 FT.
DUCT LINING TO BE EQUAL TO JOHNS-MANVILLE, 1" THICK x 1-1/2" PCF DENSITY DUCT LINING. DUCTWORK TO BE INCREASED IN EACH DIMENSION TO INCORPORATE THICKNESS OF LINING.

7. DUCT INSULATION TO CONFORM TO CALIFORNIA ENERGY CONSERVATION STANDARDS (TITLE 24)

8. WIRING DIAGRAM IS INTENDED TO INDICATE SEQUENCE OF CONTROL AND DOES NOT NECESSARILY SHOW ALL CONNECTIONS REQUIRED BY LOCAL CODES.

9. AUTOMATIC TEMPERATURE CONTROL DEVICE FOR REGULATION OF SPACE TEMPERATURE SHALL BE CAPABLE OF BEING SET FROM 55 TO 85°F, AND HAVE THE ABILITY TO OPERATE THE HEATING AND COOLING IN SEQUENCE. CONTROL SHALL BE ADJUSTABLE TO PROVIDE A RANGE OF UP TO 5°F BETWEEN FULL HEATING AND FULL COOLING AND HAVE CAPABILITY OF TERMINATING ALL HEATING AT A TEMPERATURE NO MORE THAN 70°F, AND COOLING AT A TEMPERATURE NOT LESS THAN 78°F.

10. APPLIANCES DESIGNED TO BE FIXED IN POSITION SHALL BE FASTENED IN PLACE.

11. PROVIDE SEISMIC BRACING FOR ALL MECHANICAL EQUIPMENT STRUCTURE MOUNTED, 400 LBS. OR HEAVIER.

12. A MAINTENANCE LABEL SHALL BE AFFIXED TO MECHANICAL EQUIPMENT AND A MAINTENANCE MANUAL SHALL BE PROVIDED FOR THE OWNERS USE.

13. CONCEALED BUILDING SPACES USED AS RETURN AIR PLENUMS SHALL BE OF NON-COMBUSTIBLE MATERIAL.

14. PROVIDE ACCESS PANEL FOR ALL CEILING MOUNTED EQUIPMENT & VOLUME DAMPERS.

15. PROVIDE MIN. 10'-0" SEPARATION BETWEEN POINT OF EXHAUST AND ANY FRESH AIR INTAKE, OR A/C UNIT OSA INTAKE.

16. PROVIDE FIRE DAMPER OR SMOKE AND FIRE DAMPER WHERE DUCT PENETRATES FIRE RATED CEILING OR WALL IF APPLICABLE. CEILING OR WALL IF APPLICABLE.

17. PROVIDE GALVANIZED SHEET METAL DUCTS FABRICATED AND INSTALLED TO LAMC CHAPTER 6, 2013 EDITION.

18. TRANSVERSE JOINTS FOR ALL AIR SUPPLY DUCTS INSTALLED WHERE AIR LEAKAGE WOULD BE NON-BENEFICIAL TO THE OCCUPIED AREA. TEMPERATURE REQUIREMENTS SHALL BE SEALED WITH APPROVED MASTIC OR TAPE.

19. RECTANGULAR DUCTS CAN BE SUBSTITUTED WITH EQUIVALENT ROUND DUCTS WHERE APPLICABLE PER FOLLOWING SCHEDULE:

CFM	DUCT SIZE
0-110	6"
110-240	8"
240-420	10"
420-675	12"
675-1050	14"
1050-1500	16"
1500-2000	18"
2000-2600	20"

20. THE MECHANICAL CONTRACTOR SHALL SECURE AND PAY FOR ALL REQUIRED PERMITS AND FEES.

21. THE PROJECT SHALL BE AIR BALANCED AND A COPY OF THE FINAL REPORT SHALL BE PRESENTED TO THE TENANT AND OWNER.

22. MECHANICAL CONTRACTOR SHALL VISIT THE JOB SITE PRIOR TO BID AND VERIFY EXISTING LOCATION OF ALL EQUIPMENT AND THEIR WORKING CONDITION PRIOR TO WORK. ANY DISCREPANCY SHALL BE REPORTED TO ARCHITECT.


23. ALL DUCT SIZES SHOWN ON THE FLOOR PLANS ARE CLEAR INSIDE DIMENSIONS.CONTRACTOR SHALL ENLARGE THE DUCT IN ORDER TO ACCOMMODATE LINING INSIDE OF DUCT IF REQUIRED.

24. ALL FIRE DAMPERS INSTALLED IN HEATING, VENTILATION AND AIR CONDITIONING SYSTEMS INTENDED TO OPERATE WITH FAN ON (NO SMOKE DETECTOR) SHALL BE DYNAMIC TYPE AND SHALL BE INSTALLED IN ACCORDANCE WITH THEIR LISTING.

25. ENERGY CONSERVATION STANDARDS FOR NEW NON-RESIDENTIAL BUILDINGS HAVE BEEN REVIEWED AND DESIGN SUBSTANTIALLY CONFORMS TO THEM.

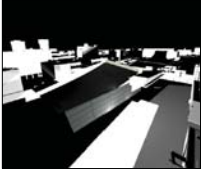
26. FLEXIBLE DUCTS TO BE GLASS-FLEX FOR STRAIGHT RUNS ONLY. ALL ELBOWS AND TURNS SHALL BE SHEET METAL GALVANIZED.

SPLIT SYSTEM FAN COIL UNIT SCHEDULE (Heat Pump) – BASEMENT & 1ST FLOOR																																
SYMBOL	UNIT TYPE		SERVICE	LOCATION	MANUFACT. AND MODEL	HEATING CAPACITY BTU/HR	COOLING CAPACITY BTU/HR	INDOOR FAN										COMPRESSOR										WEIGHT LBS	CER. SEEP	TONS	REMARKS	
	INDOOR	OUTDOOR						FAN					ELECTRIC DATA					COMP	FAN		ELEC. DATA		UNIT FLA	MCA	MOP							
								CFM	ESP	RPM	BHP	V	PH	HZ	MOTOR FLA	MCA	RLA (1)		FLA (2)	(1)	(2)	V				PH	HZ					
						OUTPUT	TH	SH	CFM	ESP	RPM	BHP	V	PH	HZ	MOTOR FLA	MCA	RLA (1)	FLA (2)	(1)	(2)	V	PH	HZ	UNIT FLA	MCA	MOP					
FC 1	INDOOR	SEE PLAN	ABOVE CEILING	ADP AX360CT	–	–	–	–	1179	0.5	–	–	240	1	60	3.0	3.8	–	–	–	–	–	–	–	–	–	–	155	–	–	3.0	PROVIDE CONDENSATE DRAIN PUMP WITH PROGRAMMABLE THERMOSTAT
HP 1	OUTDOOR	SEE PLAN	ROOF	YORK YHE36B21	36,000	35500	25500	–	–	–	–	–	–	–	–	–	–	14.7	–	1.3	–	208	1 60	18.0	19.7	30	295	12 14.5	–	–	–	WITH SPRING ISOLATOR AND ROOF PLATFORM
FC 2	INDOOR	SEE PLAN	ABOVE CEILING	ADP AX480CT	–	–	–	–	1487	0.5	–	–	240	1	60	4.6	5.8	–	–	–	–	–	–	–	–	–	–	155	–	–	4.0	PROVIDE CONDENSATE DRAIN PUMP WITH PROGRAMMABLE THERMOSTAT WITH SPRING ISOLATOR
HP 2	OUTDOOR	SEE PLAN	ROOF	YORK YHE48B21	48,000	46,000	31400	–	–	–	–	–	–	–	–	–	–	23.6	–	1.3	–	208	1 60	24.9	30.8	50	235	12.2 15	–	–	–	WITH SPRING ISOLATOR AND ROOF PLATFORM
FC 3	INDOOR	SEE PLAN	ABOVE CEILING	ADP AX480CT	–	–	–	–	1487	0.5	–	–	240	1	60	4.6	5.8	–	–	–	–	–	–	–	–	–	–	155	–	–	4.0	PROVIDE CONDENSATE DRAIN PUMP WITH PROGRAMMABLE THERMOSTAT WITH SPRING ISOLATOR
HP 3	OUTDOOR	SEE PLAN	ROOF	YORK YHE48B21	48,000	46,000	31400	–	–	–	–	–	–	–	–	–	–	23.6	–	1.3	–	208	1 60	24.9	30.8	50	235	12.2 15	–	–	–	WITH SPRING ISOLATOR AND ROOF PLATFORM
FC 4	INDOOR	SEE PLAN	ABOVE CEILING	ADP AX480CT	–	–	–	–	1487	0.5	–	–	240	1	60	4.6	5.8	–	–	–	–	–	–	–	–	–	–	155	–	–	4.0	PROVIDE CONDENSATE DRAIN PUMP WITH PROGRAMMABLE THERMOSTAT WITH SPRING ISOLATOR
HP 4	OUTDOOR	SEE PLAN	ROOF	YORK YHE48B21	48,000	46,000	31400	–	–	–	–	–	–	–	–	–	–	23.6	–	1.3	–	208	1 60	24.9	30.8	50	235	12.2 15	–	–	–	WITH SPRING ISOLATOR AND ROOF PLATFORM
FC 5	INDOOR	SEE PLAN	ABOVE CEILING	ADP AX600CT	–	–	–	–	1929	0.5	–	–	240	1	60	5.6	5.8	–	–	–	–	–	–	–	–	–	–	155	–	–	5.0	PROVIDE CONDENSATE DRAIN PUMP WITH PROGRAMMABLE THERMOSTAT WITH SPRING ISOLATOR
HP 5	OUTDOOR	SEE PLAN	ROOF	YORK YHE60B21	60,000	55500	37900	–	–	–	–	–	–	–	–	–	–	24.3	–	1.3	–	208	1 60	25.6	31.7	50	256	12 14.5	–	–	–	WITH SPRING ISOLATOR AND ROOF PLATFORM
FC 6	INDOOR	SEE PLAN	ABOVE CEILING	ADP AX600CT	–	–	–	–	1929	0.5	–	–	240	1	60	5.6	5.8	–	–	–	–	–	–	–	–	–	–	155	–	–	5.0	PROVIDE CONDENSATE DRAIN PUMP WITH PROGRAMMABLE THERMOSTAT WITH SPRING ISOLATOR
HP 6	OUTDOOR	SEE PLAN	ROOF	YORK YHE60B21	60,000	55500	37900	–	–	–	–	–	–	–	–	–	–	24.3	–	1.3	–	208	1 60	25.6	31.7	50	256	12 14.5	–	–	–	WITH SPRING ISOLATOR AND ROOF PLATFORM
* VERIFY POWER REQUIREMENTS BEFORE ORDERING UNITS																																

		EQUIPMENT SCHEDULE										
Ceiling Exhaust Fan							MARK: EF-1					
Qty	Greenheck Model	Volume (CFM)	External SP Total SP (In wg)	FRPM	Operating Power (hp)	Weight (Lb.)	Motor Information					
							Size (hp)	VIC/P	Enc:	Motor RPM	Windings	FLA
6	SP-B80	80	0.125 0.12	900	0.01	21	NA	115/60/1	OP	900	1	NA
OPTIONS AND ACCESSORIES												
UL/cUL 507 Listed - Electric Fan												
Round Hooded Wall Cap, (PN: WC-6) Shipped Loose												
Ceiling Radiation Damper, (PN: CRD-320)												
Aluminum Grille with White Enamel Finish, (PN: 504879)												
Motion Detector, Wall Mounted, (PN: 385246) Shipped Loose												
Round Duct Connection												
Transition Duct Reducer, (PN: 473324), Shipped Loose												
Isolation Kit, (PN: VI KIT-SP/CSP), Shipped Loose												
Polypropylene Wheel Material												
Energy Star Rated												

SPLIT SYSTEM FAN COIL UNIT SCHEDULE (Heat Pump)																														
SYMBOL	UNIT TYPE		SERVICE	LOCATION	MANUFACT. AND MODEL	HEATING CAPACITY BTU/HR	COOLING CAPACITY BTU/HR			INDOOR FAN										COMPRESSOR						LEAK TEST DATE	LEAK TEST RESULT	TONS	REMARKS	
	INDOOR	OUTDOOR					TH	SH	FAN					ELECTRIC DATA					COMP		FAN		ELEC. DATA							
									CFM	ESP	RPM	HP	V	PH	HZ	MOTOR FLA	MCA	RLA	FLA	V	PH	HZ	UNIT FLA	MCA	MOT MPS					
																														OUTPUT
<div>FC 7</div>	INDOOR	UNITS	CEILING	SUNTHERM CEHX-25-00-ED	-	-	-	836	0.2	-	1/4	208	1	60	-	-	-	-	-	-	-	-	-	-	-	136	---	2.0	WITH PROGRAMMABLE THERMOSTAT SEE PLAN FOR TYPE OF ACCESS PANEL WITH ISOLATOR. WITH OPTION FOR HIGH SPEED MOTOR PROVIDE NON-LONGER PANEL WITH MCA'S FIELD	
<div>HP 7</div>	OUTDOOR	UNITS	ROOF	YORK YHE24B21	23,000	23,000	---	-	-	-	-	-	-	-	-	-	11.7	-	0.8	-	208	1 60	12.5	15.4	25	131	11.75	---	-	WITH SPRING ISOLATOR AND ROOF PLATFORM
<div>FC 8</div>	INDOOR	UNITS	CEILING	SUNTHERM CEHX-25-00-ED	-	-	-	836	0.2	-	1/4	208	1	60	-	-	-	-	-	-	-	-	-	-	-	136	---	2.0	WITH PROGRAMMABLE THERMOSTAT SEE PLAN FOR TYPE OF ACCESS PANEL WITH ISOLATOR. WITH OPTION FOR HIGH SPEED MOTOR PROVIDE NON-LONGER PANEL WITH MCA'S FIELD	
<div>HP 8</div>	OUTDOOR	UNITS	ROOF	YORK YHE24B21	23,000	23,000	---	-	-	-	-	-	-	-	-	-	11.7	-	0.8	-	208	1 60	12.5	15.4	25	131	11.75	---	-	WITH SPRING ISOLATOR AND ROOF PLATFORM
<div>FC 9</div>	INDOOR	ELEV ROOM	WALL MOUNTED	MTSUSHI M5T-300NA	-	-	-	848	0.01	-	-	240	1	60	0.33	1.0	-	-	-	-	-	-	-	-	-	-	29	---	2.5	WITH PROGRAMMABLE THERMOSTAT WITH SPRING ISOLATOR
<div>HP 9</div>	OUTDOOR	SEE PLAN	ROOF	MTSUSHI M5T-300NA	-	30,000	12400	-	-	-	-	-	-	-	-	-	10	-	0.9	-	208	1 60	10.9	15	25	126	12.2	16	-	WITH ISOLATOR AND ROOF PLATFORM
VERIFY POWER REQUIREMENTS BEFORE ORDERING UNITS																														

H.V.A.C. LEGEND		
SYMBOL	ABBREVIATION	DESCRIPTION
	R	DUCT RISER
	D	DUCT SECTION (SUPPLY)
	D	DUCT SECTION (RETURN)
	D	DUCT SECTION (EXHAUST)
	C.D.	CEILING DIFFUSER
	R.A.R.	RETURN AIR REGISTER
	E.A.G.	EXHAUST AIR GRILLE
	S.W.S.	SIDE WALL SUPPLY
	S.W.R.	SIDE WALL RETURN
	S.W.E.	SIDE WALL EXHAUST
	R.G.	RELIEF GRILLE
	M.V.D.	MANUAL VOLUME DAMPER
	A.F.D.	AUTOMATIC FIRE DAMPER
	A.V.D.	AUTOMATIC VOLUME DAMPER
	D.L.	DOOR LOUVER
	STAT	ROOM THERMOSTAT
	D.H.	DUCT HEATER
	U.C.	UNDER-CUT
	C.W.S.	COND. WATER SUPPLY
	C.W.R.	COND. WATER RETURN
	H.W.S.	HOT WATER SUPPLY
	H.W.R.	HOT WATER RETURN
	CH.W.S.	CHILLED WATER SUPPLY
	CH.W.R.	CHILLED WATER RETURN
		DIRECTION OF FLOW
	G.V.	GATE VALVE
	G.L.V.	GLOBE VALVE
	C.V.	CHECK VALVE
	B.V.	BUTTERFLY VALVE
	RED.	REDUCER
	STR.	STRAINER
	U.	UNION
	P.G.	PRESSURE GAUGE
	TH.	THERMOSTAT
	A.D.	ACCESS DOOR
	A.P.	ACCESS PANEL
	S.A.	SUPPLY AIR
	R.A.	RETURN AIR
	E.A.	EXHAUST AIR
	C.A.	COMBUSTION AIR
	O.S.A.	OUTSIDE AIR
	DN.	DOWN
	CLG.	CEILING
	S.W.S.	SIDEWALL SUPPLY
	S.W.R.	SIDEWALL RETURN
	N.C.	NORMALLY CLOSED
	N.O.	NORMALLY OPEN
	N.I.C.	NOT IN CONTRACT
	P.O.C.	POINT OF CONNECTION
	G.C.	GENERAL CONTRACTOR
	P.C.	PLUMBING CONTRACTOR
	E.C.	ELECTRICAL CONTRACTOR
	U.T.R.	UP THRU ROOF
		FLEX. CONN. IN DUCT
		TURNING VANES
		EXTRACTORS
		FURN. & INST. BY ELEC.
		FURN. & INST. BY MECH.
		EXPANSION VALVE
	C.A.	CONTROL AIR
		DUCT LINING
	M.C.A.	MAX. CIRCUIT AMPACITY
	T.S.P.	TOTAL STATIC PRESSURE
	F.L.A.	FULL LOAD AMP
	B.D.D.	BACK DRAFT DAMPER
	M.B.H.	THOUSAND BTUH
	E.R.	EXHAUST REGISTER



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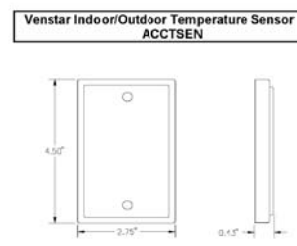
CONTROL LEGEND	
—	LINE VOLTAGE WIRING UNDER ELECTRICAL SECTION.
---	LOW VOLTAGE WIRING UNDER THIS SECTION.
(E)	ITEMS FURNISHED AND INSTALLED UNDER ELECTRICAL SECTION.
NOTE: SHOW ALL CONDUIT UNDER ELECTRICAL SECTION.	
<p>DIAGRAMS SHOWN ARE SCHEMATIC AND INTENDED TO SHOW SEQUENCE OF OPERATION. ONLY CONTRACTOR TO PROVIDE ALL ITEMS AND WIRING REQUIRED FOR PROPER OPERATION AND COMPLIANCE WITH CODE, VERIFY THE EXACT REQUIREMENTS WITH EQUIPMENT MANUFACTURER.</p>	
NOTE	
<p>THE GENERAL CONTRACTOR SHALL HAVE A CIVIL OR STRUCTURAL ENGINEER REGISTERED IN THE STATE OF CALIFORNIA TO DESIGN SEASIDE RESTRAINTS FOR THE FOLLOWING:</p> <ul style="list-style-type: none"> a. STORAGE RACKS OVER 5'-0" IN HEIGHT. b. MECHANICAL ELEVATOR AND ROOF MOUNTED MECHANICAL EQUIPMENT. c. PILING AND/OR SPANNERS. d. ELECTRICAL, CABLE TRAYS, AND/OR CONDUITS RUNS. 	

SEISMIC RESTRAINTS SHALL BE DEFINED AS BRACINGS, STRUTS, HANGERS AND CONNECTIONS BETWEEN THE ABOVE ITEMS AND THE PRIMARY STRUCTURE REQUIRED TO PROVIDE JOINTAL STABILITY IN THE EVENT OF THE CODE PRESCRIBED EARTHQUAKE.

ALL BRACINGS, STRUTS, HANGERS AND CONNECTIONS SHALL BE DESIGNED IN CONFORMANCE WITH 2010 ASCE CODE 7-05, CHAPTER 13. STRUCTURAL ANALYSIS SHALL BE PERFORMED TO VERIFY THE DESIGNING AND PROVIDED TO THE BUILDING OFFICE FOR INSPECTION.

SEISMIC BRACING

ALL SUPPLEMENTED UTILITY SYSTEMS WHICH INCLUDE ELECTRICAL, MECHANICAL, AND PLUMBING EQUIPMENT AND ASSOCIATED CONDUIT, DUCTWORK, AND PIPING ARE REQUIRED TO HAVE SEISMIC RESTRAINT ATTACHMENTS DESIGNED TO RESIST THE TOTAL DESIGNED SEISMIC FORCES PRESCRIBED IN ASCE 7-05, CHAPTER 13. INCLUDE TYPICAL SEISMIC RESTRAINT DETAILS OF CONNECTIONS SUBMITTING COMPLIANCE WITH 2010 ASCE CODE 7-05, CHAPTER 13 TO INCLUDE SEISMIC RESTRAINT ASSEMBLY DETAILS AND/OR TO OVERTHROW STRUCTURE WITH SUPPORTING DESIGNING SUBMITTED BY A LICENSED CIVIL OR STRUCTURAL ENGINEER IS REQUIRED AT THE SITE OF INSPECTION. "JOINT POLICY"



COORDINATE WITH ARCHITECTURAL DRAWINGS AND REFLECTED CEILING PLANS FOR EXACT LOCATION OF ALL DIFFUSERS AND REGISTERS AND LOWERS.

SUPPLY DIFFUSERS AND REGISTERS TO BE TITUS MODEL TDA-4A, PAS-A FOR CEILING INSTALLATION AND TITUS MODEL TDA-4A FOR WALL INSTALLATION OR COMBINED WITH KEY OPERATED OPPOSED BLADE DAMPER UNIT.

RETURN AND EXHAUST AIR REGISTERS TO BE TITUS MODEL 50K-AT FOR CEILING INSTALLATION AND TITUS MODEL 50K-AT FOR WALL INSTALLATION OR APPROVED EQUAL WITH KEY OPERATED OPPOSED BLADE DAMPER UNIT.

5. ALL REGISTERS AND GRILLS INSTALLED IN T-BAR CEILINGS SHALL BE ATTACHED AT EACH CORNER TO THE MAIN RAUNERS WITH APPROVED CLIPS OR BAR SCREWS.

INSULATION:

MINERAL FIBER INSULATION SHALL BE INSTALLED IN JOINT SPACES WHERE SUCH JOINTS INVOLVE PIPE OR DUCT PENETRATING THROUGH FLOOR-CEILING ASSEMBLY OR WHERE SUCH PIPE OR DUCT PASSES THROUGH THE PLANE OF FLOOR-CEILING ASSEMBLY FROM WITHIN THE WALL. THE INSULATION SHALL BE INSTALLED TO A POINT 12" BEYOND THE PIPE OR DUCT. CEILING JOINTS INVOLVING THROUGH PENETRATIONS THROUGH SEPARATE FLOOR-CEILING ASSEMBLIES SHALL BE WRAPPED WITH TYPE "C" INSULATION AS NOTED IN TABLE NO. 6-4, UNIFORM MECHANICAL CODE.

CEILING CONCEALED SUPPLY AND RETURN DUCTS TO BE COVERED ALLS WITH 2" INSULATION OR 3/4" L.B.U. OR 1" THICK 1.4 L.B.U./FT. DENSITY FIBERGLASS INSULATION, OR 1" THICK 3 L.B.U./FT. MINERAL FIBER BOARD, OR MATERIAL WITH A CONDUCTIVITY OF 0.30 OR LESS, ALL WITH 2" LAPPED JOINTS SECURELY AND TIGHTLY WREED AND FASTENED TO THE SURFACE OF THE INSULATION. ALL DUCTWORK PENETRATING INSULATED WALLS OR ROOF, THE HOLES MUST BE SEALED WITH AN APPROVED NON-FLAME SEAL MATERIAL.

INSULATION INSTALLER SHALL POST IN A CONSPICUOUS LOCATION IN THE BUILDING A CERTIFICATE SIGNED BY THE INSTALLER AND BEARING STATING THAT THE INSULATION CONFORMS WITH THE REQUIREMENTS OF TITLE 20, CHAPTER 2, SUBCHAPTER 2.

ALL INSULATION MATERIALS SHALL BE CERTIFIED BY THE MANUFACTURER AS COMPLYING WITH THE CALIFORNIA QUALITY STANDARD FOR INSULATION MATERIAL.

INSULATION APPLIED TO THE EXTERIOR SURFACE OF DUCTS LOCATED IN THE BUILDINGS SHALL HAVE A FLAME SPREAD OF NOT MORE THAN 25 AND A SMOKE-SENSITIVITY NOT EXCEEDING 50 PER ESC 201.

PIPING:

CONDENSATE WASTE SIZING		
EQUIPMENT CAPACITY IN TONS OF REFRIGERATION (HW)	MINIMUM CONDENSATE PIPE DIAMETER	
UP TO 20 (up to 70.34)	3/4"	

THE SIZE OF CONDENSATE WASTE PIPES MAY BE FOR ONE UNIT OR A COMBINATION OF UNITS, OR AS RECOMMENDED BY THE CAPACITY OF WASTE PIPES ASSUMES A 1/8 INCH PER FOOT (10.5 mm/m) OR ONE PERCENT SLOPE, WITH THE PIPE RUNNING

Outside Air - 20%		Room Air - 80%	
08	WB	08	WB
90T	73T	79T	62.5T
(32°C)	(23°C)	(24°C)	(17°C)

NOTES:

1. PRIOR TO ANY DUCT OR PIPING, FABRICATION, EQUIPMENT INSTALLATION AND PIPE INSTALLATION, MECHANICAL CONTRACTOR SHALL COORDINATE ALL OTHER TRADES AND OBTAIN CLEARANCES AND PROVIDE COMPLETION SCHEDULING. OPTIMUM INSTALLATION OF DUCTS, PIPING AND EQUIPMENT SHALL BE MADE TO ACCOMMODATE EQUIPMENT SIZES IN ORDER TO ACCOMMODATE AVAILABLE SPACE, VENT, EXHAUST, AND EXHAUST SYSTEMS. DUE TO LACK OF COORDINATION AFTER SHOP DRAWINGS ARE SUBMITTED.

2. SITE INSPECTION: CONTRACTORS SHALL VISIT THE SITE OF WORK PRIOR TO SUBMISSION OF HIS BID AND THOROUGHLY FAMILIARIZE HIMSELF WITH WORKING CONDITIONS AND EXACT NATURE OF THE WORK. SUBMISSIONS AND ACKNOWLEDGEMENTS OF THE PROPOSAL FOR FURNISHING AND COMPLETION OF FUNCTIONAL SYSTEM, NO CHANGES IN CONTRACT WILL BE MADE TO ACCOMMODATE OR ANY OTHER REASON. CONTRACTOR SHALL BE RESPONSIBLE FOR RESULTS FROM A FAILURE TO THOROUGHLY MAKE THE EXAMINATION.

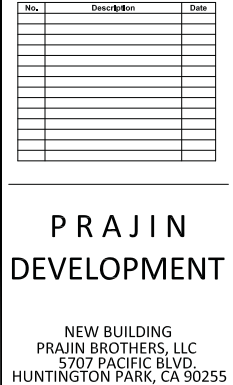
3. CONTRACTOR TO PROVIDE FLOW SWITCH OR LIQUID SWITCH, IF SECONDARY UNIT IS OPERATIONAL. FLOW SWITCH HAS BEEN INSTALLED BY THE CONTRACTOR. NET SIGNAL SWITCH WITH SECONDARY PIPE HAS BEEN INSTALLED BY SECONDARY

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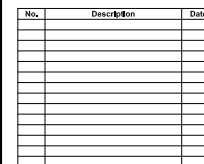


M101

Scale



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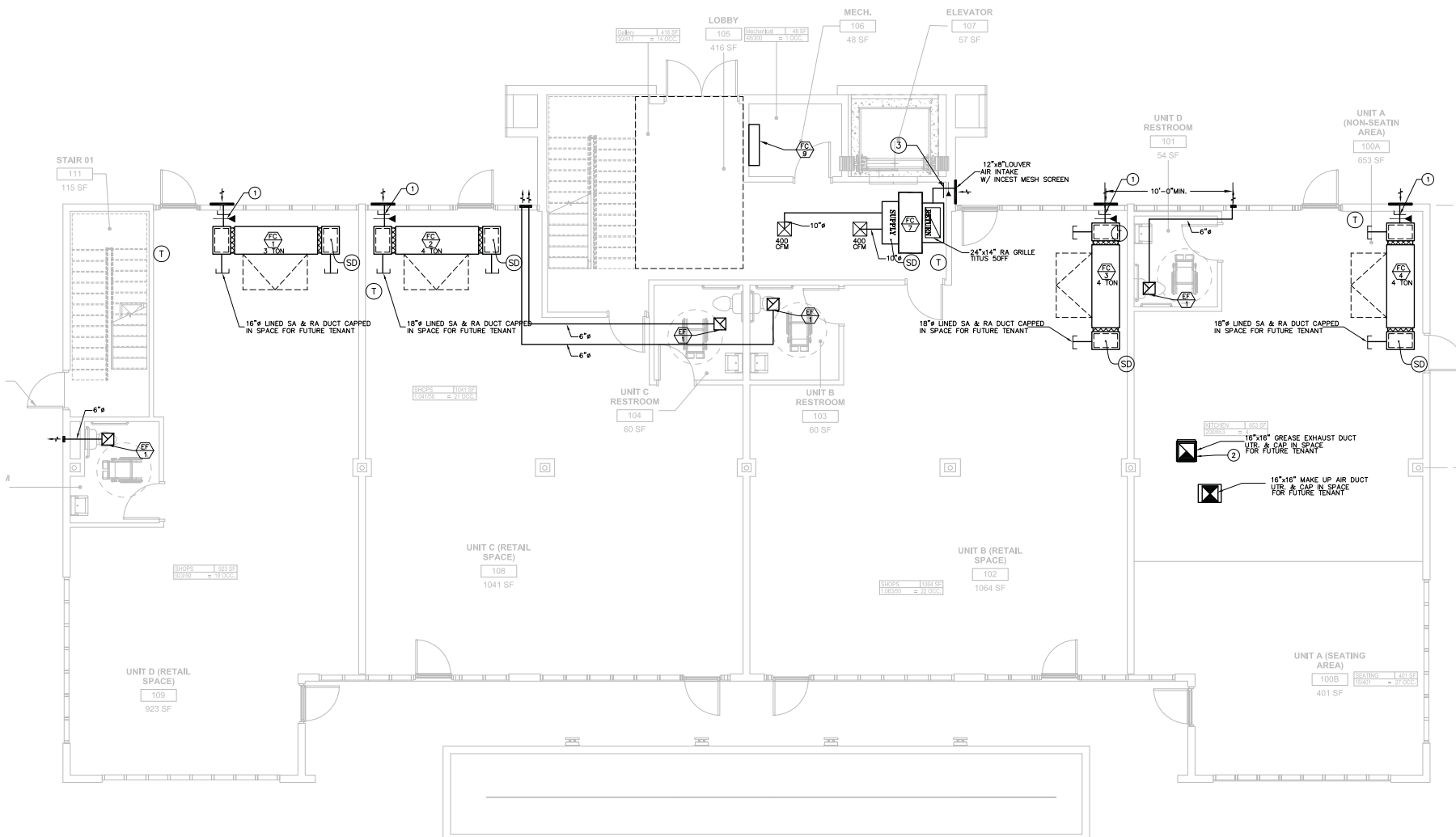


NEW BUILDING
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Project number	Project Number
Date	02-23-17
Drawn by	A.N.
Checked by	A.N.

M201

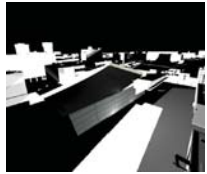
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A



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4882 Pomona Street
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Direct: 818.523.7291
Email: stitchstudio3d@gmail.com

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MECHANICAL - PLUMBING - ELECTRICAL
19126 HAYNES STREET #2
REDEDA, CA 91335
TEL (818) 288-4381
FAX (818) 758-0087



No.	Description	Date

PRAJIN DEVELOPMENT

NEW BUILDING
PRAJIN BROTHERS, LLC
5707 PACIFIC BLVD.
HUNTINGTON PARK, CA 90255

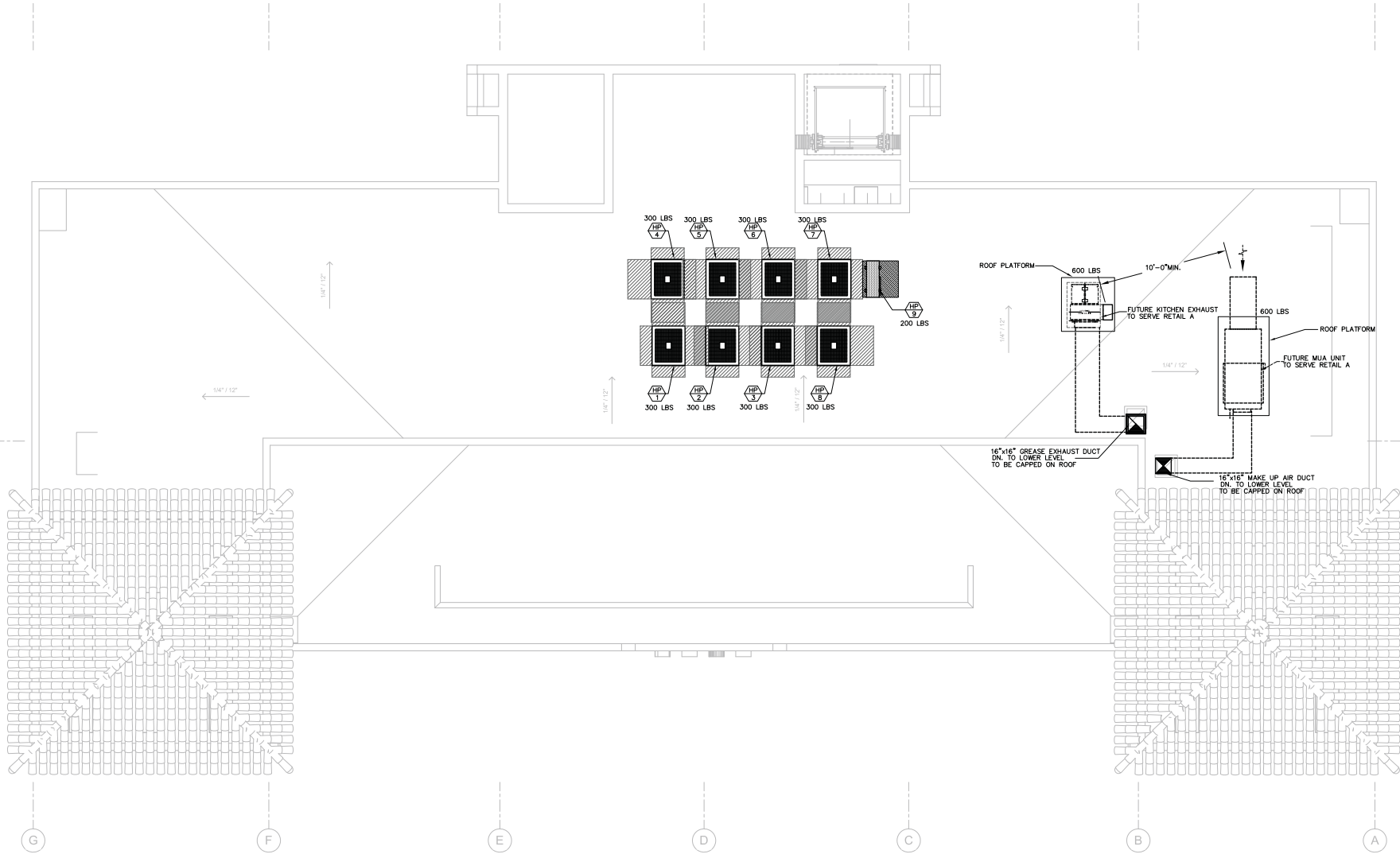
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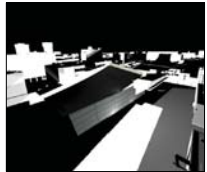
Project number	Project Number
Date	02-23-17
Drawn by	A.N.
Checked by	A.N.

M203

Scale 1/4" = 1'-0"

8/6/2016 8:46:07 PM





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No.	Description	Date

PRAJIN DEVELOPMENT

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PRAJIN BROTHERS, LLC
5707 PACIFIC BLVD.
HUNTINGTON PARK, CA 90255

MECHANICAL
DETAILS

Project number	Project Number
Date	02-23-17
Drawn by	A.N.
Checked by	A.N.

M300

Scale	NTS
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8/6/2016 8:46:07 PM

CONDENSATE DRAIN CONNECTION

SCALE: NONE: C

AC-UNIT WIRING DIAGRAM

SCALE: NONE: E

CEILING DIFFUSER DETAIL

SCALE: NONE: I

VIBRATION ISOLATOR DETAIL

SCALE: NONE: G

TYPICAL CABLE RESTRAINT SYSTEM

3) FOR CABLE AND ANCHORAGE SIZES SEE DRWG -
NOTES: 1) CABLES TO BE INSTALLED 1/4" SLACK.

TYPICAL CABLE RESTRAINT DETAIL

VIBREX TYPE RMXA

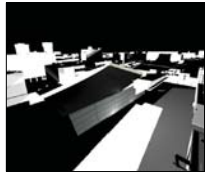
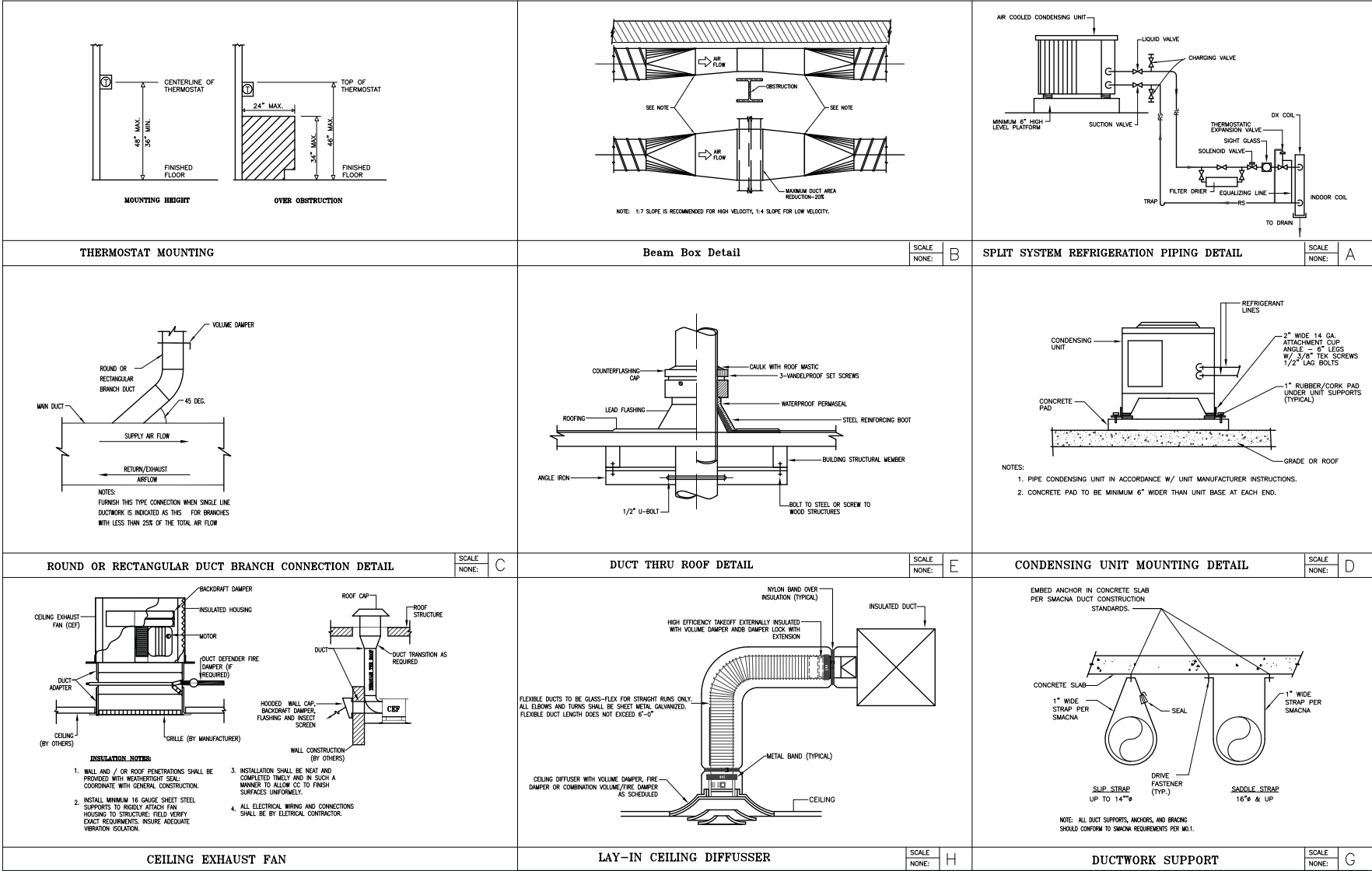
VALUES ARE O.S.A. APPROVED (I.C.B.O. VALUES WITH 20% REDUCTION)						
BOLT DIA.	MIN. EMBED.	KNW-BOLT		PULL OUT TEST VALUES		
		2000 PSI	3000 PSI	TENSION	SHEAR	
1/4"	2 1/2"	516	304	592	412	500
3/8"	3"	564	688	670	852	1300
1/2"	4"	1084	1368	1252	1516	2000
5/8"	4"	1152	2056	1484	2184	2800
3/4"	5"	2152	2440	2720	2928	4300
1"	7"	3232	3080	3960	4150	6600

BOLT DIA.	MIN. EMBED. (MIN. 8W)	MACHINE BOLT A-307		WOOD LAG DOUGLAS FIR		PULL OUT TEST VALUES
		TENSION	SHEAR	TENSION	SHEAR	
1/4"	4"	643	490	393	290	NOT REQUIRED
3/8"	4"	1096	1104	498	320	
1/2"	4"	2832	1953	498	320	
5/8"	4"	4520	3070	576	360	
3/4"	5"	6890	2940	924	660	
1"	7"	12110	7850			

NOTES: 1) VALUES ARE BASED ON 12 DIA. SPACING AND 6 DIA. EDGE DISTANCE.
2) TENSION VALUES ARE WITH SPECIAL INSPECTION (WITHOUT SPECIAL INSPECTION, VALUES ARE X .35).
3) A. SIMULTANEOUS VERTICAL FORCE = 1/3 X HORIZ. FORCE SHALL BE APPLIED IN THE DESIGN OF ALL EQUIPMENT ANCHORS.
4) IMPORTANCE FACTOR - I = 1.5

ANCHOR BOLT - SELECTION CHART

CABLE RESTRAINTS - LOADING CHART



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No.	Description	Date

PRAJIN DEVELOPMENT

NEW BUILDING
PRAJIN BROTHERS, LLC
5707 PACIFIC BLVD.
HUNTINGTON PARK, CA 90255

MECHANICAL
DETAILS

Project number 02-23-17
Date 02-23-17
Drawn by A.N.
Checked by A.N.

M301

Scale NTS

CA Building Energy Efficiency Standards- 2016 Nonresidential Compliance Report Version: NRCC-PREF-01-E-12142016-4177 Report Generated at: 2017-05-23 10:47:25

CA Building Energy Efficiency Standards- 2018 Nonresidential Compliance Report Version: NRECC-PREF-01-E-11142016-4177 Report Generated at: 2017-02-23 10:47:25

CA Building Energy Efficiency Standards- 2016 Nonresidential Compliance Report Version: NRECC-PREF-01-E-12142016-4377 Report Generated at: 2017-05-23 10:47:25

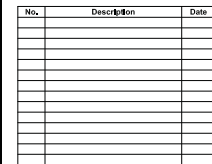
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CA Building Energy Efficiency Standards- 2016 Nonresidential Compliance Report Version: NRCC-PRF-01-E-12142016-4377 Report Generated at: 2017-02-23 10:47:23

PRAJIN
DEVELOPMENT

NEW BUILDING
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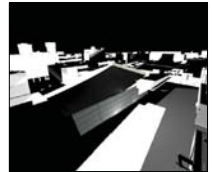
TITLE-24
REPORT

Project number	Project Number
Date	02-23-17
Drawn by	A.N.
Checked by	A.N.

M400

Scale	NTS
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PRAJIN
DEVELOPMENT

NEW BUILDING
PRAJIN BROTHERS, LLC
5707 PACIFIC BLVD.
HUNTINGTON PARK, CA 90255

TITLE-24
REPORT

Project number	Project Number
Date	02-23-17
Drawn by	A.N.
Checked by	A.N.

M401

Scale	NTS
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