VARIABLE REFRIGERANT FLOW	V FAN COIL SCHEDULE											
DESIGNATION	FC B9	FC B7	FC B4, L7	L4	FC B8, B10	FC B3, B5, B6,	FC B1, L1	FC B2	FC-M1 thru M4	FC C1 thru C8	G 11, G12	FC C9, C10,
						L2, L3, L5, L6	,			D1 thru D8		D9, D10, E9, E10,
				4								
										E1 thru E8		F9, F10, G9, G10,
										F1 thru F8	1	M5, M6, N17, N18,
										G1 thru G8		N19, N20, P13, P14,
									ii a	N1 thru N16	1	P15
										The Control of the Co	1	1
										P1 thru P12		
UPPLY AIR (CFM)	2,000	1,300	1,100	880	650	480	450	300	1,500	1,300	565	350
MAX EXT. SP (IN WC)	0.64	0.64	0.64	0.64	0.64	0.64	0.80	0.20	0.50	0.50	0.00	0.00
MBH COOLING CAPACITY (NOMINAL)	72.0	48.0	36.0	30.0	24.0	18.0	15.0	8.0	54.0	48.0	18.0	12.0
MBH HEATING CAPACITY (NOMINAL)	80.0	54.0	40.0	34.0	27.0	20.0	17.0	9.0	60.0	54.0	20.0	13.5
MAX INPUT POWER (WATTS)	1352	683	683	360	245	188	188	60	410	360	50	60
DRIVE	DIRECT	DIRECT	DIRECT	DIRECT	DIRECT	DIRECT	DIRECT	DIRECT	DIRECT	DIRECT	DIRECT	DIRECT
POWER INPUT AMPS	4.5	3.4	3.4	1.8	1.3	1.0	1.0	0.5	2.8	2.3	0.4	0.3
/OLTS/PHASE	208/1	208/1	208/1	208/1	208/1	208/1	208/1	208/1	208/1	208/1	208/1	208/1
MANUFACTURER	MITSUBISHI	MITSUBISHI	MITSUBISHI	MITSUBISHI	MITSUBISHI	MITSUBISHI	MITSUBISHI	MITSUBISHI	MITSUBISHI	MITSUBISHI	MITSUBISHI	MITSUBISHI
MODEL NUMBER	PEFY-P72NMHU-E	PEFY-P48NMHU-E	PEFY-P36NMHU-E	PEFY-P30NMHU-E	PEFY-P24NMHU-E	PEFY-P18NMHU-E	PEFY-P15NMHU-E	PEFY-P08NMSU-E	PVFY-P54E00A	PVFY-P48E00A	PLFY-P18NBMU-E	PLFY-P12NCMU-E
PER. WT (LBS)	221	155	155	111	100	100	98	42	168	160	51	44
ACCESSORIES	1, 2, 3	1, 2, 3	1, 2, 3	1, 2, 3	1, 2, 3	1, 2, 3	1, 2, 3	2, 3, 4	5, 6, 7	5, 6, 7	8, 9	8, 9

- 1. DRAIN PUMP KIT. FIELD INSTALL AND WIRE UNDER SPEC. SECTION 15800.
- 2. INSTALL CANVAS CONNECTION AT SUPPLY AND RETURN DUCT CONNECTIONS.
- 3. FILTER LOCATED AT RETURN GRILLE. SEE GRILLE SCHEDULE. 4. FACTORY MOUNTED AND WIRED CONDENSATE LIFT PUMP.
- 5. FIELD BUILT FILTER RACK SEE PLANS.
- 6. THREE SPEED FAN WITH FIELD CONTROLS FOR MULTI-SPEED (V.A.V.) OPERATION. SEE CONTROL NOTES AND SEQUENCE OF OPERATION.
- 7. FIELD CONTACTS FOR CONDENSATE OVERFLOW SWITCH.
- 8. FACTORY FILTER INSIDE UNIT.

GRILLE SCHEDULE

9. FACTORY CONDENSATE LIFT KIT (19-11/16" LIFT).

GRILLE SCHEL		
MARK	DUTY	DESCRIPTION
CD-1	CEILING SUPPLY	TITUS MCD MODULAR CORE DIFFUSER WITH T-BAR CEILING FRAME AND O.B.D. SEE DIFFUSER SIZING CHART FOR NECK SIZE.
CD-2	CEILING SUPPLY	TITUS MODEL MCD MODULAR CORE DIFFUSER WITH FLAT SURFACE MOUNT FRAME AND O.B.D. SEE DIFFUSER SIZING CHART FOR NECK SIZE.
CD-3	CEILING SUPPLY	TITUS MODEL TDC LOUVERED FACE DIFFUSER WITH T-BAR CEILING FRAME AND O.B.D. SEE DIFFUSER SIZING CHART FOR NECK SIZE.
CD-4	CEILING SUPPLY	TITUS MODEL TDC LOUVERED FACE DIFFUSER WITH FLAT SURFACE MOUNT FRAME AN O.B.D. SEE DIFFUSER SIZING CHART FOR NECK SIZE.
WS-1	WALL SUPPLY	TITUS 300 RL DOUBLE DEFLECTION GRILLE WITH O.B.D. HORIZONTAL FRONT BLADES.
DS-1	DUCT SUPPLY	TITUS S300FL SPIRAL DUCT MOUNTED SUPPLY GRILLE WITH ALUMINUM CONSTRUCTION, CLEAR ANODIZE FINISH, COUNTERSUNK SCREW HOLES, GASKETS, ASD SCOOP / DAMPER.
LS-1	LINEAR SUPPLY	TITUS FL-10-JT FLO BAR JET FLO DIFFUSER. LUSTER CLEAR FINISH WITH NON ADJUSTABLE (BLACK) PATTERN CONTROLLER, EXPOSED FLANGE FOR SIDEWALL MOUNTING. MANUFACTURE TO MATCH CURVED WALL RADIUS.
CR-1	CEILING RETURN	TITUS 50F EGGCRATE RETURN GRILLE WITH T-BAR CEILING FRAME.
CR-2	CEILING RETURN	TITUS 50F EGGCRATE RETURN GRILLE WITH SURFACE MOUNTING FRAME.
CR-3	FILTER RETURN	EGGCRATE FILTER RETURN GRILLE WITH T-BAR CEILING FRAME AND 20"x20"x2" PLEATED FILTER. USE CAM/FIL FARR AP11, MERV 11.
CR-4	FILTER RETURN	EGGCRATE FILTER RETURN GRILLE WITH SURFACE MOUNT FRAME AND 20"x20"x2" PLEATED FILTER. USE CAM/FIL FARR AP11, MERV 11.
CE-1	CEILING EXHAUST	TITUS 50F EGGCRATE EXHAUST GRILLE WITH SURFACE MOUNT FRAME AND O.B.D.
CE-2	CEILING EXHAUST	TITUS 30RL HEAVY DUTY EXHAUST GRILLE WITH SURFACE MOUNT FRAME, O.B.D., 14 GAUGE BLADES, AND 18 GAUGE FRAME, 0 DEGREE DEFLECTION, STEEL CONSTRUCTION.
CR-3	CEILING EXHAUST	TITUS 50F EGGCRATE EXHAUST GRILLE WITH T-BAR CEILING FRAME AND O.B.D.
SG-1	SOFFIT GRILLE	TITUS 30RL HEAVY DUTY INTAKE/RELIEF GRILLE WITH SURFACE MOUNT FRAME, PRIME COAT FINISH 14 GAUGE BLADES, AND 18 GAUGE FRAME, 0 DEGREE DEFLECTION, STEEL CONSTRUCTION.
DD-1	DISPLACEMENT GRILLE	PRICE DF-1C WITH 4" BASE TO MATCH BASEBOARDS AND DUCT COVERS TO CEILING, 1-WAY PATTERN.
WR-1	WALL RETURN GRILLE	TITUS 355ZRL ZERO DEFLECTION SIDEWALL GRILLE.
RG-1, IG-1	RELIEF GRILLE & INTAKE GRILLE	TITUS 30RL HEAVY DUTY RELIEF GRILLE WITH SURFACE MOUNT FRAME, PRIME COAT FINISH 14 GAUGE BLADES, AND 18 GAUGE FRAME, 0 DEGREE DEFLECTION, STEEL CONSTRUCTION.

RUSKIN ELF675D DRAINABLE BLADE EXTERIOR WALL LOUVER WITH FLANGE FRAME AND

BIRD SCREEN. PRIME COAT FOR FIELD PAINTING.

NOTE: PAINT ALL VISIBLE SURFACES BEHIND DIFFUSERS AND GRILLES FLAT BLACK.

LOUVER

DESIGNATION	HP B1	HP L1	HP C1, C2, D1, D2,	HP M1, M2	HP P2, P4
			E1, E2, F1, F2, G1, G2,		×
			N1, N2, N3, N4, P1, P3		
VOLTS/PHASE	460/3	460/3	460/3	460/3	460/3
MCA	40 (20 + 20)	20	30 (19 + 11)	19	16
MAXIMUM OVER CURRENT PROTECTION	50 (25 + 25)	25	40 (20 + 25)	25	20
NOMINAL COOLING CAPACITY (MBH)	240	120.0	192	120.0	96
NOMINAL HEATING CAPACITY (MBH)	240	120.0	200	120.0	108
kW/TON COOLING	1.08	1.06	0.99	1.01	1.05
BTUH/WATT HEATING	11.5	11.33	13.0	12.95	12.5
COMPRESSOR KW & QTY.	8.1 x 2	8.1 x 1	8.1 x 1 + 5.1 x 1	8.8 x 1	6.8 x 1
STARTING METHOD	DIRECT ON LINE INVERTER	DIRECT ON LINE INVERTE			
CAPACITY CONTROL	9 - 100%	17 - 100%	6 - 100%	18 - 100%	13 - 100%
CONDENSER FAN kW & QTY	0.92 X 2	0.92 x 1	0.92 X 2	0.92 x 1	0.92 x 1
RUNNING CURRENT HEAT / COOL (AMPS)	29.1 / 30.1	14.1 / 14.7	21.4 / 22.0	12.9 / 14.0	12.0/11.7
MANUFACTURER	MITSUBISHI	MITSUBISHI	MITSUBISHI	MITSUBISHI	MITSUBISHI
TYPE	HEAT RECOVERY	HEAT RECOVERY	HEAT PUMP	HEAT PUMP	HEAT PUMP
MODEL NUMBER	PURY-P240YSHMU-A	PURY-P120YHMU-A	PUHY-P192YSHMU-A	PUHY-P120YHMU-A	PUHY-P96YHMU-A
OPER. WT (LBS)	618 + 618	618	574 + 260	574	474
ACCESSORIES	1 THRU 5	1 THRU 4	1 THRU 5	1 THRU 4	1 THRU 4

- 1. INSULATED REFRIGERANT PIPING LINE SET. SEE SPECIFICATIONS.
- 2. HIGH PRESSURE SWITCH, FAN DRIVER OVERLOAD PROTECTOR, OVER CURRENT RELAY,
- INVERTER OVERLOAD PROTECTOR, FUSIBLE PLUGS. 3. PERFORM PIPING AIR TIGHT TEST AND VACUUM DRYING PROCEDURES AS OUTLINED
- IN MANUFACTURER'S INSTALLATION MANUAL.
- 4. INCLUDE FACTORY START-UP AND COMMISSIONING OF ENTIRE SYSTEM. 5. TWINNING KIT FOR FIELD PIPING OF TWO UNITS INTO SINGLE MANIFOLD.

DESIGNATION	ERV B1	ERV L1
SUPPLY AIR (CFM)	1,700	850
EXTERNAL SP (IN WC)	0.5	0.5
HP/BRAKE HP	.58 / 1.00	0.50 / 0.28
R.P.M.	884	1,054
EXHAUST AIR (CFM)	1,500	750
EXTERNAL SP (IN WC)	0.5	0.5
HP/BRAKE HP	.46 / .75	0.50 / 0.21
R.P.M.	830	966
SUMMER AMBIENT CONDITIONS	105 / 73	105 / 73
SUMMER INDOOR CONDITIONS	75 / 50% RH	75 / 50% RH
WINTER AMBIENT CONDITIONS	30 / 27	30 / 25.3
WINTER INDOOR CONDITIONS	72 / 35% RH	72 / 35% RH
SUMMER SUPPLY CONDITIONS	81.8 / 65.1	81.8 / 65.1
WINTER SUPPLY CONDITIONS	63.0 / 50.5	62.9 / 50.4
VOLTS / PHASE	460/3	208/1
MCA	5	13.2
MOCP	15	15
MANUFACTURER	GREENHECK	GREENHECK
ARRANGEMENT	В	В
MODEL NUMBER	ERV-521S-15-B	ERV-361S-15-B
OPER. WT. (LBS)	1,300	875
ACCESSORIES	1 THRU 10	1 THRU 10

- 3. PREMATECTOR EXTERIOR FINISH.
- 4. DOUBLE WALL CONSTRUCTION WITH HINGED ACCESS DOORS...
- 4. SOLID STATE SPEED CONTROLLER, INTERNALLY MOUNTED AND WIRED 5. 2" PLEATED OUTDOOR AND EXHAUST FILTERS. CAM/FIL FARR AP11, MERV 11.
- CONTROLS XFMR. 7. SINGLE POINT WIRING.
- 8. INTERNALLY MOUNTED CONTROL CENTER WITH DOOR INTERLOCKING DISCONNECT.
- FAN UNIT BASE WITH NEOPRENE ISOLATORS. 10. MOTORIZED INTAKE AND EXHAUST DAMPERS.

DIFFUSER SIZING CHART

CFM	TITUS MCD, SQUARE NECK	CFM	TITUS TDC, SQUARE NECK	
0 - 200	6" × 6"	0 - 125	6" × 6"	
201 - 300	8" × 8"	126 - 300	9" × 9"	
301 - 425	10" × 10"	301 - 500	12" × 12"	
426 - 600	12" × 12"	501 - 750	15" × 15"	
601 - 700	14" × 14"	751 - 1100	18" × 18"	
701 - 850	16" × 16"	951 - 1250	21" × 21"	
851 - 950	18" × 18"	1101 - 1500	24" × 24"	
951 - 1200	20" × 20"	1501 - 1800	30" × 30"	

MEP Component Anchorage Note

All mechanical, plumbing, and electrical components shall be anchored and installed per the details on the DSA approved construction documents. Where no detail is indicated, the following components shall be anchored or braced to meet the force and displacement requirements prescribed in the 2010 CBC, Sections 1615A.1.12 through 1615A.1.22 and ASCE 7-05 Chapter 6 and 13.

- 1. All permanent equipment and components.
- 2. Temporary or movable equipment that is permanently attached (e.g. hard wired) to the building utility services such as electricity, gas or water.
- 3. Movable equipment which is stationed in one place for more than 8 hours and heavier than 400 pounds are required to be anchored with temporary attachments.

The attachment of the following mechanical and electrical components shall be positively attached to the structure, but need not be detailed on the plans. These components shall have flexible connections provided between the component and associated ductwork, piping, and conduit.

- A. Components weighing less than 400 pounds and have a center of mass located 4 feet or less above the adjacent floor or roof level that directly support the component. B. Components weighing less than 20 pounds, or in the case of distributed systems, less than 5 pounds per foot, which are suspended from a roof or floor or hung from a
- For those elements that do not require details on the approved drawings, the installation shall be subject to the approval of the Structural Engineer of Record and the DSA District Structural Engineer. The project inspector will verify that all components and equipment have been

Piping, Ductwork, and Electrical Distribution System Bracing Note

anchored in accordance with above requirements.

Piping, ductwork, and electrical distribution systems shall be braced to comply with the forces and displacements prescribed in ASCE 7-05 Section 13.3 as defined in ASCE 7-05 Section 13.6.8, 13.6.7, 13.6.5.6, and 2010 CBC, Sections 1615A.1.20, 1615A.1.21 and 1615A.1.22.

The bracing and attachments to the structure shall be detailed on the approved drawings or they shall comply with one of the OSHPD Pre-Approvals (OPA #) as modified to satisfy anchorage requirements of ACI 318, Appendix D.

Copies of the manual shall be available on the jobsite prior to the start of hanging and bracing of the pipe, ductwork, and electrical distribution systems.

The Structural Engineer of Record shall verify the adequacy of the structure to support the hanger and brace loads.

GENERAL NOTES:

- 1. All AC systems serving occupied zones shall be programmed so that the supply fan and minimum ventilation rates operate continuously during scheduled occupancy and one hour prior to scheduled occupancy for building flush-out. See mechanical roof plans for minimum outdoor air (ventilation) flow rates. Ventilation rates shall be no less than required by California Title 24,
- 2. All ceiling exhaust fans (with positively pressurized exhaust ducts) shall require the exhaust duct systems to be sealed as required to meet SMACNA Seal Class A standards.
- 3. All outside air intakes at HVÅC units shall be located a minimum of fifteen feet from any sewer vent or exhaust fan discharge in accordance with ASHRAE standard 62.1-2004, section 5.6 and table 5-1. Install bird screen over all outside air intakes.
- 4. All HVAC systems shall be equipped with a minimum 2" pleated filter bank with a filter efficiency of MERV II (per ASHRAE standard 52.2-1999). Use Camfil / FARR AP-Eleven Filters, MERV II efficiency, .09" clean static pressure drop at 250 feet per minute face velocity.
- 5. The mechanical contractor (specification 15800) shall adhere to and implement all requirements under ASHRAE Standard 62.1-2004, section 7, Construction and System Startup. A copy of this standard must be kept on site and one copy provided to the IOR for review and enforcement. Include all documentation required under section 7.2.6.
- 6. Temporary construction ventilation: Continuously ventilate during installation of materials that emit Volatile Organic Compounds (VOC) and after installation until emissions dissipate. Ventilate areas directly to outside areas; do not ventilate to other enclosed spaces. Replace all filtration media immediately prior to occupancy except for un spent filters used to filter outside air. If continuous ventilation is not possible via the building's HVAC system(s), then ventilate via open windows and temporary fans that sufficiently provide no less than three air changes per hour. 7. Oil film on sheet metal should be removed before shipment to site. On-site, inspect ducts to

confirm that no oil film is present. Remove any oil. If ducts contain dust and dirt, clean them immediately, prior to substantial completion and prior to using the ducts to circulate air.

- 8. After construction ends, and with all interior finishes installed, flush-out the building by supplying continuous ventilation with all air handling units at their maximum outdoor air rate for at least 14 days while maintaining an internal temperature between 60°F and 78°F, and relative humidity no higher than 60%. Occupancy may start after 7 days, provided flush-out continues for the full 14 days. Do not "bake out" the building by increasing the temperature of the space. (If continuous ventilation is not possible, flush-out must total the equivalent of 14 days of maximum outdoor air.)
- Building flush out shall be under the scope of the mechanical contractor (specification 15800). All HVÁC recirculating air systems shall have ducted returns. No return plenum systems will be 10. Dust protection: Turn the ventilation system off, and protect HVAC supply and return openings

from dust infiltration during dust producing activities (e.g. drywall installation and finishing).

Provide temporary ventilation as required II. Post-occupancy ventilation: When the contractor is required to perform touch-up work involving products with chemical emissions, provide temporary construction ventilation during installation and extend the building flush-out by a minimum of 4 days after touch-up installation, with 100% tempered outside air for 24 hours each day.

CONTROL NOTES:

- HVAC controls shall be provided under spec section 15800.
- 2. A complete turn-key control system including all control components, wiring, cabling, programming, etc shall be
- 3. All control wiring and / or cabling shall be routed in conduit when concealed in wall framing cavity. 4. Wiring routed in attic space may be routed without conduit where codes permit. Install in a workman like manner
- with clips spaced appropriately to avoid sags in wiring. Do not install free flight. 5. Install all controls & control wiring, regardless of voltage, for all HVAC units, fan coils, heat pumps, ERV units,
- condensing units, exhaust fans, and MUA units. 6. Provide exhaust fan interlocks and controls as noted below the exhaust fan schedule, sheet M-501. 7. See scope of work on sheets M-505 thru M-511 for control work required for control of kitchen exhaust hood, MUA
- 8. Provide filter differential pressure monitoring at all AC units, classroom fan coils, and at MUA unit. Provide graphical
- alarm at web browser interface to alert operator when filter have reached a change out poin
- 9. Install and wire ductless split system unit controls. Include extension of power wiring and controls from outdoor condensing unit to indoor fan coil and wiring of auxiliary condensate pumps. 10. See detail L/M-504 for wiring from fire alarm panel relay modules required at specific AC and MUA unit(s).
- 11. Set all fans for continuous operation during occupied times as required to provide continuous ventilation of occupied
- 12. Program all mechanical units to start one hour prior to occupancy as required to flush the occupied space prior to occupancy. Stagger unit starts.
- 13. Provide a minimum of eight hours on-site training for the maintenance staff of Bakersfield city School District in the function and servicing of the controls system. 14. Demonstrate controls function to the inspector and to Bakersfield City School District maintenance staff for all
- mechanical equipment listed in schedule. Demonstration shall confirm sequence of operation as listed in mechanical

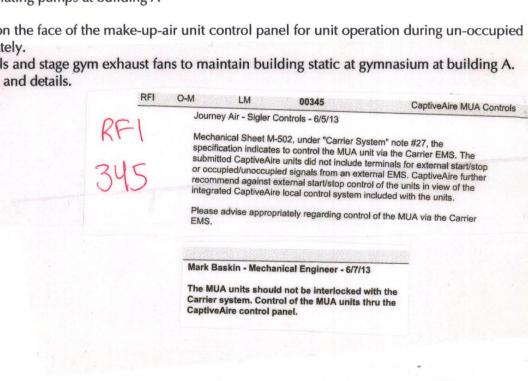
Mitsubishi System:

- 15. Provide a Mitsubishi PAC-SC51KUA power pac module at each building with VRF heat pump systems with a model AG-150 central controller at each building EMS control panel. Extend 24v control wiring as required to controlled
- 16. At building B provide a network hub that gathers all the communications from other buildings with AG-150 controllers and routes them to a stand alone computer workstation with desktop computer, keyboard & screen. Provide a stand alone desktop computer work station with Mitsubishi TG2000 software and CAT 5 or CAT6 cable connection the campus LAN. Fully commission the work station for web access. Field coordinate connection to LAN with BCSD computer services department.
- 17. Provide PAR30 deluxe MA controllers at all VRF fan coils. 18. Include factory supervised commissioning of all Mitsubishi heat pump controls including programming set points and
- testing of the system. Wiring and conduit shall be provided in accordance with spec division 16. 19. Provide DIDO (digital in/out) control boards located in flush mounted control panel (EMS panel) as required to control auxiliary equipment. Control start/stop of the following items and wire each through the I/O circuits of the
- Dedicated outside air system (ERV units B-1 & L-1) supply fans, exhaust fans, and wheel motors. Schedule with
- occupancy, un-occupied by-pass and with one hour pre-occupancy purge. Lock out wheel rotation at each dedicated outside air system between 55 and 70 degrees outside air temperature (adjustable).
- Domestic hot water circulating pumps at buildings B & L. Outside air temperature monitoring.
- 20. Wiring between heat pumps, branch control units, fan coils, and DI/DO modules for the purposes of communication and control shall be provided under spec section 15800. Daisy chain the wire back to each AG-150 panel. Follow guidelines provided by the manufacturer. A spare 1" conduit shall be provided between buildings under the data contract for the purposes of routing the wire.

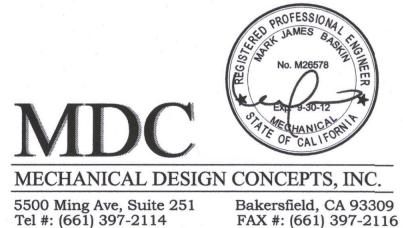
Carrier System:

21. Door switches?

- 22. Provide controls system for Buildings A and H based Carrier Comfort Network (CCN) and i-Vu components and
- 23. All AC units shall have factory mounted and wired Carrier Comfort Controller.
- 24. Provide with web based software controls. Fully commission web access. Field coordinate connection to LAN with BCSD computer services department. 25. Connect to the campus WAN and communicate between buildings utilizing WAN cabling. Local cabling (within
- building) for the purposes of communication and control shall be provided under spec section 15950. 26. Wiring between Carrier ENMS panels located in buildings A and H for the purposes of communication and control shall be provided under spec section 15800. Follow guidelines provided by the manufacturer. A spare 1" conduit
- shall be provided between buildings under the data contract for the purposes of routing the wire. 27. Provide Carrier 33UNIVCTRL (universal controller) at each building EMS panel. Extend control from each universal controller to the following items and wire each through Lon relays and programmed thru the CCN based on
- Exhaust fans listed on EF scheduled as controlled by EMS
- Domestic hot water circulating pumps at building A
- 28. Provide 0-2 hour twist timer on the face of the make-up-air unit control panel for unit operation during un-occupied hours. Label timer appropriately.
- 29. Provide static pressure controls and stage gym exhaust fans to maintain building static at gymnasium at building A. See plans for additional notes and details.



Job: 09091

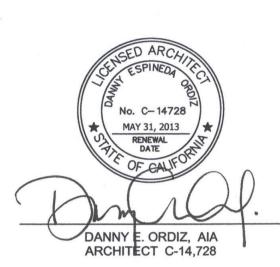


Plt: 1-11-12



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WILLIAM J. MELBY, AIA ARCHITECT C-16,835

IDENTIFICATION STAMP DIVISION OF STATE ARCHITECT OFFICE OF REGULATION SERVICES APPL. #:02-112027

PTN # 63321-112

NEW ELEMENTARY SCHOOL 9801 HIGHLAND KNOLLS DR BAKERSFIELD

CALIFORNIA

93306 **NEW MIDDLE SCHOOL** 4115 VINELAND ROAD BAKERSFIELD **CALIFORNIA**

FOR:

BAKERSFIELD CITY SCHOOL DISTRICT

1300 BAKER STREET BAKERSFIELD CALIFORNIA 93305

MARK	DATE	DESCRIPTION
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> **MECHANICAL SCHEDULES**

SHEET IDENTIFICATION NUMBER