





# **BRENTWOOD ELEMENTARY SCHOOL**

## VICTOR ELEMENTARY SCHOOL DISTRICT

13962 HOOK BLD, VICTOVILLE, CA 92394

## **HVAC REPLACEMENT PROJECT**

ARCHITECTURE I PLANNING I INTERIOR DESIGN 19520 Jamboree Road I Suite 100 Irvine I California I 92612 949.250.0880 | FAX 949.250.0882 www.westgroupdesigns.com

ISSUED FOR:
DSA REVIEW SUBMITAL
DSA REVIEW
DSA SUBMITTAL

REGISTRATION/SIGNATURE:	REVISIONS:	
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SHEET TITLE:

SHEET NUMBER:

WD PROJ. # 22825





ABBREVIATION	IS			DEFERRED SUBMITTALS	GENERAL NOTES	PROJECT DIRECTORY			
& And F.F ∠ Angle F.V @ At	R.P. Fiberglass Reinf V. Field Verify N. Finish	prced Panel PT. PR. סואד /סאסד	Paint Pair Partition	NO DEFERRED SUBMITTALS	1. SEE INDIVIDUAL SHEETS FOR LEGEND DESCRIPTIONS AND SHEET NOTES.	OWNER: VICTOR ELEMENTARY SCHOOL DISTRICT			
&       And       F.F.         Ø       At       F.F.         Ø       Degree       F.G.         Property Line       F.F.         R       Property Line       F.F.         ACT       Acoustical Celling Tile       F.H.         ACA       Aggregate       F.H.         ALUM./AL.       Aluminum       F.T.         ALUM./AL.       Auminum       F.H.         ALUM./AL.       Autonatic       GA         AUTO.       Automatic       GA         BUK       Block       Ga         BLK       Block       Block         BLKG.       Blocking       GA         BUT.       Bottom       GL         CLG.       Cabler T.V.       GN         CLG.       Caling       HE         CLG.       Caling       HE         CLC.       Catch Basin       HE         CLC.       Calint Link       H.H.         CLG.       Celling       HE         CLKG. <th>R.P.       Fiberglass Reinfy         V.       Field Verify         N.       Finish         F.E.       Finish Floor Elev         G.       Fire Alarm         E.       Fire Extinguishet         E.C.       Fire Extinguishet         ASH.       Flashing         H.M.B.       Flat Head Machi         H.W.S.       Flat Head Wood         ./FLR.       Floor Drain         G.       Footing         ND.       Foundation         JRR.       Furring         ALV.       Galvanized         I.       Galvanized         J.M.       Galvanized         J.M.</th> <th>ation PEN. PTN./PART. ation PEN. PLAM. PL. Cabinet P.V. PLAM. PL. Cabinet DS./# ne Bolt LBS./# ne Screw PRE-FAB. Screw PRE-FAB. P.T./P.T.D.F R. REFRIG. REFRIG. REFRIG. REFRIG. REINF. REQ'D. REF. REINF. REQ'D. R. R. S. SC. S. SST. S. S. S. S. S. S. S. S. S. S. S. S. S.</th> <th>Paint         Pair         Pair         Partition         Perforated         Plastic Laminate         Plate         Plumbing Vent         Plywood         Pound         Prefabricated         Pressure Treated Douglas Fir         Radius/Riser         Rain Water Leader         Redwood         Reference         Refrigerator         Reduired         Return         Rood Drain         Room         Rough Opening         Round Head Wood Screw         Rubber Base         Section         Service Sink         Sheet Metal         Sheet Vinyl         R         Shillar         Solid Core         South         Specification         Square         Structural         Suspended         Symbol         Tackboard         Telephone         <td< th=""><th>NO DEFERRED SUBMITTALS INSPECTOR CLASSIFICATIONS CLASS 3 ALL WORK SHALL CONFORM TO 2022 TITLE 24, CALIFORNIA CODE OF REGULATION (CGR) CHANGES TO THE APPROVED DRAWINGS AND SPECIFICATIONS SHALL BE MADE BY ADDENDUM OR A CONSTRUCTION CHANGE DOCUMENT (CCD) APPROVED BY THE DIVISION OF THE STATE ARCHITECT, AS REQUIRED BY SECTION 4-338, PART 1, TITLE 24, CGR A TOSA CERTIFECT PROJECT INSPECTOR REPLOYED BY THE DISTRICT (WORK THE DUTIES OF THE INSPECTOR ARE DEFINED IN SECTION 4-332, PART 1, TITLE 24, CGR, ANDIMUM CLASS 31 INSPECTION SINSPECTION OF THE WORK THE DUTIES OF THE INSPECTOR ARE DEFINED IN SECTION 4-332, PART 1, TITLE 24, CGR, ANDIAUMON CHASS 31 INSPECTION IN SECTION 4-332, PART 1, TITLE 24, CGR, ANDIAUMON CHASS 31 INSPECTION IN SECTION 4-332, PART 1, TITLE 24, CGR, ANDIAUMON CHASS 31 INSPECTION IN SECTION 4-332, PART 1, TITLE 24, CGR, ANDIAUMON CHASS 31 INSPECTION IN SECTION 4-332, PART 1, TITLE 24, CGR, ANDIAUMON CHASS 31 INSPECTION IN SECTION 4-332, PART 1, TITLE 24, CGR, SHOULD ANY EMSTING CONDITIONS SUCH AS DETERIORATION OR NON- ACMPLINING CONSTRUCTION IN SECONDER DUTIES INFORMATION OR MONI- ACMPLINING CONSTRUCTION IN SECONDER DUTIES INFORMATION OR ONDERING MARK SHALL BE SUBMITTED TO AND APPROVED BY DAS BEFORE PROCEEDING WITH THE 24, CGR, A CONSTRUCTION AS UPON HICH IS NOT OR AS PART 515 MINITE BE REPT ON SITE DISCOMPERED UNHERD IN CONSTRUCTION, OR AS PART 515 MINITE BE REPT ON SITE DURING CONSTRUCTION, OR AS PART 515 MINITE BE REPT ON SITE DURING CONSTRUCTION, ADDITIONAL NOTES ENERGY EFFICIENCY STMULUS (SEES) PROGRAM IS NOT USED FOR THIS PROJECT DSA SUPPLEMENTARY CONDITIONS: - COMPLANCE WITH TITLE 24, CGR, PARTS 1-5 AND 9 - TITLE 24, PARTS 1-5 MINITE BE SIGNED BY THE ONSTRUCTION, - ALL SUBSTITUTION CHARGE DOCUMENT WICH AND SHALL BE CONSTRUCTION, - ALL SUBSTITUTION CHARGE DOCUMENT MINITE BE SIGNED BY CHE ONSTRUCTION, - AND SHALL BE SUBMITED TO AND APPROVED BY THE OWNER AND APPROVED BY THE OWNER AND SPECIFICATIONS IS THAT THE WORK OF THE ALTERATION, REFERICION AND SPECIFICATIONS IS THAT THE WORK OF THE ALTERA</th><th><ol> <li>SEE INDIVIDUAL SHEETS FOR LEGEND DESCRIPTIONS AND SHEET NOTES.</li> <li>''ARCHITECT' AS USED IN THESE DOCUMENTS REFERS TO: WESTGROUP DESIGNS.</li> <li>REFERENCE TO MAKES, BRANDS, AND MODEL IS TO ESTABLISH TYPE AND QUALITY DEBIRED, FOR PRODUCT SUBSTITUTION, THE CONTRACTOR SHALL SUBMITTED PRODUCT DATA FOR THE PURPOSED SUBSTITUTIE PRODUCT FOR COMPARISON. 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SYMBOL LEGE	ND					SCOPE OF WORK			
SHEET NUMBERING SYST Discipline Desig Drawing Type D Floor Level Sheet Sequence ROOM NAME and NUMBER Room Name 101 Room Number KEYNOTE REFERENCE 3.02 SHEET NOTE REFERENCE SN.01 DEMOLITION NOTE REFERENCE	EM gnation Designation e RING REFERENCE	STRUCTURAL GRI center of framing) Grid Wa Grid Wa Grid Stu Acc A 6"A 6"-0" Lov Doc Oc Wir CENTERLINE NORK POINT CON CENTERLINE	ID IDENTIFIER			PROJECT DESCRIPTION: PROJECT INCLUDES THE FOLLOWING BUT NOT LIMITED TO: ALL WOR REQUIRED TO REMOVE AND REPLACE EXISTING HVAC UNITS WITH NE UNITS OF SAME TONNAGE AND HIGHER ENERGY EFFICIENCY. NO CHANGE OF OCCUPANCIES; NO SQUARE FOOTAGE INCREASE.			
DN.01 DETAIL REFERENCE		C Revi	ISION NUMBER						
AX.X.X Detail Number Sheet Number	F	RADIUS R=92'-4" (1)	Point Number	AFFLIGADLE GOUES & STANDARD ALL WORK SHALL CONFORM TO TITLE 24 OF THE CALIFORNIA CODE OF REGULATIONS	2022 EDITION PARTS 1 THROUGH 12:	USE OF CONSTRUCTION DOCUMENTS PREPARED B			
Market Number     Section Number     Alor     Section Number     Alor     Section Number     Comparison     Section Number     Comparison     Comparison </td <td>LIST OF APPLICABLE CODES 2022 CALIFORNIA ADMINSTRATIVE CODE (CAC), PART 1, TITLE 24 CCR 2022 CALIFORNIA BUILDING CODE (CBC), PART 2, TITLE 24 CCR. 2022 CALIFORNIA ELECTRICAL CODE (CEC), PART 3, TITLE 24 CCR 2022 CALIFORNIA MECHANICAL CODE (CMC), PART 4, TITLE 24 CCR 2022 CALIFORNIA PLUMBING CODE (CPC), PART 5, TITLE 24 CCR 2022 CALIFORNIA ENERGY CODE, PART 6, TITLE 24 CCR. 2022 CALIFORNIA FIRE CODE (CFC), PART 9, TITLE 24 CCR 2022 CALIFORNIA FIRE CODE (CFC), PART 9, TITLE 24 CCR 2022 CALIFORNIA FIRE CODE (CFC), PART 9, TITLE 24 CCR 2022 CALIFORNIA GREEN BUILDING CODE (CEBC), PART 10, TITLE 24 CCR 2022 CALIFORNIA REFERENCE STANDARDS (CALGREEN), PART 11, TITLE 24 CCR 2022 CALIFORNIA REFERENCE STANDARDS CODE, PART 12, TITLE 24 CCR. TITLE 19 CCR, PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS <b>APPLICABLE STANDARDS</b> FOR A LIST OF APPLICABLE STANDARS, INCLUDING CALIFORNIA AMENDMENTS TO THE N TO CBC CHAPTER 35 CFC CHAPTER 80</td> <td>NFPA STANDARDS , REFER</td> <td>IR A-18_TITLE 24, PART 1, SECTION 4-316,4-317         Application No. &lt;&lt;04-122079&gt;&gt; File No. &lt;&lt;36-63&gt;&gt;         All Structural, Mechanical, Electrical, and Plumbing drawings as listed in t professionals or consultants who are licensed and / or authorized to prepe 1) design intent and appear to meet the appropriate requirements of Title 2) coordination with my plans and specifications and are acceptable for in         The Statement of General Conformance "shall not be construed as relievi and 81138 of the Education Code and Sections 4-336, 4-341 and 4-344" or are in general conformance and ⊠ have been coordinated         I certify that these drawings and /or page:         Are in general conformance and         Date         O3.29.23         Signature       Date         Architect designated to be in general respons         Joshua James Smith         Print Name         C-32284       05.31.25         License Number       Expiration Date</td>		LIST OF APPLICABLE CODES 2022 CALIFORNIA ADMINSTRATIVE CODE (CAC), PART 1, TITLE 24 CCR 2022 CALIFORNIA BUILDING CODE (CBC), PART 2, TITLE 24 CCR. 2022 CALIFORNIA ELECTRICAL CODE (CEC), PART 3, TITLE 24 CCR 2022 CALIFORNIA MECHANICAL CODE (CMC), PART 4, TITLE 24 CCR 2022 CALIFORNIA PLUMBING CODE (CPC), PART 5, TITLE 24 CCR 2022 CALIFORNIA ENERGY CODE, PART 6, TITLE 24 CCR. 2022 CALIFORNIA FIRE CODE (CFC), PART 9, TITLE 24 CCR 2022 CALIFORNIA FIRE CODE (CFC), PART 9, TITLE 24 CCR 2022 CALIFORNIA FIRE CODE (CFC), PART 9, TITLE 24 CCR 2022 CALIFORNIA GREEN BUILDING CODE (CEBC), PART 10, TITLE 24 CCR 2022 CALIFORNIA REFERENCE STANDARDS (CALGREEN), PART 11, TITLE 24 CCR 2022 CALIFORNIA REFERENCE STANDARDS CODE, PART 12, TITLE 24 CCR. TITLE 19 CCR, PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS <b>APPLICABLE STANDARDS</b> FOR A LIST OF APPLICABLE STANDARS, INCLUDING CALIFORNIA AMENDMENTS TO THE N TO CBC CHAPTER 35 CFC CHAPTER 80	NFPA STANDARDS , REFER	IR A-18_TITLE 24, PART 1, SECTION 4-316,4-317         Application No. <<04-122079>> File No. <<36-63>>         All Structural, Mechanical, Electrical, and Plumbing drawings as listed in t professionals or consultants who are licensed and / or authorized to prepe 1) design intent and appear to meet the appropriate requirements of Title 2) coordination with my plans and specifications and are acceptable for in         The Statement of General Conformance "shall not be construed as relievi and 81138 of the Education Code and Sections 4-336, 4-341 and 4-344" or are in general conformance and ⊠ have been coordinated         I certify that these drawings and /or page:         Are in general conformance and         Date         O3.29.23         Signature       Date         Architect designated to be in general respons         Joshua James Smith         Print Name         C-32284       05.31.25         License Number       Expiration Date					

SHEET #	SHEET NAME
COVER SHE	ET
CS-0.1	COVER IMAGE SHEET
CS-0.2	PROJECT INFORMATION
ARCHITECTL	JRAL
A0-1.1	EXISTING OVERALL SITE PLAN
A5-1.1	BUILDING 100
A5-1.2	BUILDING 200
A5-1.3	BUILDING 300
A5-1.4	BUILDING 500
A5-1.5	RESTROOM BUILDING
A5-1.6	RELOCATABLE CLASSROOMS (SINGLE UNIT)
A5-1.7	RELOCATABLE CLASSROOMS (DUAL UNIT)
MECHANICA	L
M0-1.0	MECHANICAL ABBREVIATIONS AND SYMBOLS LIST
M0-1.1	MECHANICAL SCHEDULES
M0-1.2	MECHANICAL SCHEDULES
M0-2.1	MECHANICAL DETAILS
M0-2.2	MECHANICAL DETAILS
M0-3.1	CONTROL DETAILS
M0-3.2	CONTROL DETAILS
M1-1.1	MECHANICAL SITE PLAN
MD2-1.1	MECHANICAL DEMOLITION FLOOR PLAN - BUILDING 100
MD2-1.2	MECHANICAL DEMOLITION FLOOR PLAN - BUILDING 200
MD2-1.3	MECHANICAL DEMOLITION FLOOR PLAN - BUILDING 300
MD2-1.4	MECHANICAL DEMOLITION FLOOR PLAN - BUILDING 500
MD2-1.5	MECHANICAL DEMOLITION FLOOR PLAN - RESTROOM BUILDING
MD2-1.6	MECHANICAL DEMOLITION FLOOR PLAN - RELOCATABLES
M2-1.1	MECHANICAL RENOVATION FLOOR PLAN - BUILDING 100
M2-1.2	MECHANICAL RENOVATION FLOOR PLAN - BUILDING 200
M2-1.3	MECHANICAL RENOVATION FLOOR PLAN - BUILDING 300
M2-1.4	MECHANICAL RENOVATION FLOOR PLAN - BUILDING 500
W2-1.5	MECHANICAL RENOVATION FLOOR PLAN - RESTROOM BUILDING
VI2-1.6	MECHANICAL RENOVATION FLOOR PLAN - RELOCATABLES
ELECTRICAL	
E000	COVER SHEET
E001	ELECTRCIAL COVER SHEET
E0-1-1	SITE PLAN EXISTING CONDITION
E5-1.1	ENLARGED PLAN - BUILDING 100
E5-1.2	ENLARGED ROOF PLAN - BUILDING 200
E5-1.3	ENLARGED ROOF PLAN - BUILDING 300
E5-1.4A	MECHANICAL DEMOLITION PLAN - BUILDING 500
E5-1.4B	MECHANICAL IMPROVEMENT PLAN - BUILDING 500
E5_1 5	

### D: ALL WORK CY.

### RAL CONFORMANCE

### PARED BY OTHER PROFESSIONALS

as listed in the sheet index above have been prepared by other design brized to prepare such drawings in this State. They have been examined by me for: nents of Title 24, California Code of Regulations and the project specifications, and ceptable for incorporation into the construction of this project.

ued as relieving me of my rights, duties, and responsibilities under Sections 17302 1 and 4-344" of Title 24, Part 1.(Title 24,Part 1, Section 4-317 (b))

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### VICINITY MAP



IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT APP: 04-122079 INC: REVIEWED FOR SS 🗹 FLS 🗹 ACS 🗌 DATE: 09/20/2023 G ARCHITECTURE | PLANNING | INTERIOR DESIGN 19520 Jamboree Road | Suite 100 Irvine | California | 92612 949,250,0880 | FAX 949,250,0882 www.westgroupdesigns.com BRENTWOOD ELEMENTARY SCHOOL VICTOR ELEMENTARY SCHOOL DISTRICT 13962 HOOK BLD, VICTOVILLE, CA 92394 ISSUED FOR: DSA REVIEW SUBMITAL 03/29/2023 DSA REVIEW 05-10-2023 DSA SUBMITTAL 08/30/23 \_\_\_\_\_ REVISIONS: \_\_\_\_\_ \_\_\_\_\_ \_\_\_\_\_ REGISTRATION/SIGNATURE: SHEET TITLE: PROJECT INFORMATION SHEET NUMBER: CS-0.2 WD PROJ. # DRAWN BY: CHECKED DATE 22825 KD MC/CW 03/29/23 © WESTGROUP DESIGNS, INC.

































### **GENERAL NOTES**

- . PATCH, REPAIR, OR REPLACE EXISTING MATERIALS DAMAGED BY WORK. PAINT ANY PATCHED AND REPAIRED SURFACES TO MATCH EXISTING COLOR AND FINISH.
- 2. EXECUTION OF WORK SHALL BE DONE WITH APPLICABLE MATERIALS SO THAT SURFACES REPLACED WILL UPON COMPLETION MATCH SURROUNDING SURFACES OF SAME MATERIAL.
- 3. FIRE PROTECTION DURING DEMOLITION AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH 2022 CFC, CHAPTER 33.
- 4. REFER TO MECHANICAL DRAWINGS FOR MECHANICAL SCOPE OF WORK.
- 5. REMOVE EXISTING CEILING DIFFUSER. PREPARE AREA OF REMOVAL TO RECEIVE NEW CEILING DIFFUSER. REFER TO MECHANICAL DRAWING FOR CEILING DIFFUSER.

### 

![](_page_7_Picture_10.jpeg)

CLASSROOM CLASSROOM CLASSROO 

<b>PN#</b> PN.01	DESCRIPTION (E) BUILT-UP ROOFING TO REMAIN
PN.02	(E) INTERIOR DUCTWORK TO REMAIN
PN.03	(E) ROOF CURB TO REMAIN. PROTECT IN PLACE DURING CONSTRUCTION

### DEMOLITION KEYNOTES ,

DESCRIPTION DN# REMOVE EXISTING ROOFTOP HEAT PUMP UNIT. REFER TO MECHANICAL FOR SCOPE OF WORK DN.01

### 

SN# DESCRIPTION SN.01 NEW ROOFTOP HEAT PUMP UNIT AND PAINT EXTERIOR DUCTWORK IN WHITE

### **KEY PLAN**

![](_page_7_Figure_17.jpeg)

![](_page_7_Picture_19.jpeg)

![](_page_8_Figure_0.jpeg)

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITEC APP: 04-122079 INC: REVIEWED FOR SS 🗹 🛛 FLS 🗹 ACS 🗖 DATE: 09/20/2023 ARCHITECTURE I PLANNING I INTERIOR DESIGN 19520 Jamboree Road | Suite 100 Irvine I California I 92612 949.250.0880 | FAX 949.250.0882 www.westgroupdesigns.com BRENTWOOD ELEMENTARY SCHOOL VICTOR ELEMENTARY SCHOOL DISTRICT 13962 HOOK BLD, VICTOVILLE, CA 92394 ISSUED FOR: DSA REVIEW SUBMITAL 03/29/2023 DSA REVIEW 05-10-2023 DSA SUBMITTAL 08/30/23 **REVISIONS:** REGISTRATION/SIGNATURE: SHEET TITLE: RELOCATABLE CLASSROOMS (SINGLE UNIT) SHEET NUMBER: A5-1.6 WD PROJ. #DRAWN BY:CHECKEDDATE22825KDMC/CW03/29/23 © WESTGROUP DESIGNS, INC. 1/4'' = 1'

![](_page_9_Figure_0.jpeg)

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITEC APP: 04-122079 INC: REVIEWED FOR SS 🗹 🛛 FLS 🗹 ACS 🗖 DATE: 09/20/2023 ARCHITECTURE I PLANNING I INTERIOR DESIGN 19520 Jamboree Road | Suite 100 Irvine I California I 92612 949.250.0880 | FAX 949.250.0882 www.westgroupdesigns.com BRENTWOOD ELEMENTARY SCHOOL VICTOR ELEMENTARY SCHOOL DISTRICT 13962 HOOK BLD, VICTOVILLE, CA 92394 ISSUED FOR: DSA REVIEW SUBMITAL 03/29/2023 DSA REVIEW 05-10-2023 DSA SUBMITTAL 08/30/23 **REVISIONS:** REGISTRATION/SIGNATURE: SHEET TITLE: RELOCATABLE CLASSROOMS (DUAL UNIT) SHEET NUMBER: A5-1.7 WD PROJ. #DRAWN BY:CHECKEDDATE22825KDMC/CW03/29/23 © WESTGROUP DESIGNS, INC.

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MECHANIC	AL AB	BREVIATIONS AND SY	MBOLS LIST
ABLE CODES		DUCTWORK SYMBOLS	GENERAL DEMOLITION NOTES
ES CAC), PART 1, TITLE 24 CCR PART 2, TITLE 24 CCR ), PART 3, TITLE 24 CCR C). PART 4, TITLE 24 CCR		RETURN AIR DUCT UP SUPPLY AIR DUCT UP EXHAUST AIR DUCT UP	REFER TO ARCHITECTURAL DEMOLITION DRAWINGS IN THIS PHASE AND FOR DEMOLITION AREAS AND EXISTING WALLS. THE SCOPE OF THE DEMOLITION WORK SHALL INCLUDE ALL LABOR, MATERIALS, SERVICES AND EQUIPMENT REQUIRED FOR THE REMOVAL OF EXISTING HVAC EQUIPMENT AND SYSTEMS. VERIFY ALL SPECIFIC DEMOLITION WORK PRIOR TO COMMENCING. THIS WORK INCLUDES, BUT IS NOT LIMITED TO THE FOLLOWING: 1- REMOVE ALL DUCTWORK, DUCTWORK ACCESSORIES, DIFFUSERS, GRILLES, HVAC SYSTEM
PART 5, TITLE 24 CCR PART 6, TITLE 24 CCR 9, TITLE 24 CCR E (CEBC), PART 10, TITLE 24 CCR ARDS CODE (CALGreen), PART 11, TITLE 24 CCR S CODE, PART 12, TITLE 24 CCR PARSHAL REGULATIONS		RETURN AIR DUCT DOWN SUPPLY AIR DUCT DOWN EXHAUST AIR DUCT DOWN	<ul> <li>INSULATION AND SUPPORTS, TEMPERATURE CONTROL DEVICES, HVAC EQUIPMENT AND SPECIALTIES.</li> <li>2- PERFORM CUTTING AND PATCHING OF THE CONSTRUCTION WORK WHICH MAY BE REQUIRED FOR THE PROPER INSTALLATION OF MECHANICAL WORK OR REMOVAL OF EXISTING MECHANICAL EQUIPMENT AND SYSTEMS. PATCHING SHALL BE OF THE SAME MATERIALS, WORKMANSHIP AND FINISH AS AND ACCURATELY MATCH SURROUNDING WORK TO THE SATISFACTION. OF THE ARCHITECT</li> </ul>
NCLUDING CALIFORNIA AMENDMENTS TO THE NFPA	OR OR	ELBOWS WITH TURNING VANES         TEE DUCT WITH TURNING VANES	3- WHERE NEW PARTITIONS OR OTHER CONSTRUCTION AND/OR INSTALLATION OF NEW CEILING INTERFERES WITH THE EXISTING AIR DISTRIBUTION SYSTEM, MODIFY THE AIR OUTLETS / INLETS AND ASSOCIATED DUCTWORK AND ACCESSORIES AS REQUIRED TO MATCH THE NEW
HEIGHTS / OVER OBSTRUCTIONS		DUCT WITH INSULATION WRAP DUCT WITH ACOUSTICAL LINING DUCT DROP DUCT RISE	<ul> <li>ARCHITECTORAL EATOUT TO SATISFACTION OF THE ARCHITECT.</li> <li>ALL REMOVED MATERIALS AND EQUIPMENT WHICH, IN THE OPINION OF THE ARCHITECT, ARE SALVAGEABLE SHALL REMAIN THE PROPERTY OF THE DISTRICT. DELIVER SUCH SALVAGED MATERIALS AND EQUIPMENT ON PREMISES AS DIRECTED, AND NEATLY PILE OR STORE THEM AND PROTECT FROM DAMAGE. WHERE MATERIALS AND EQUIPMENT HAVE BEEN REMOVED AND NOT REPLACED THE EXPOSED SURFACE BEHIND MATERIAL OR EQUIPMENT SHALL BE PAINTED TO MATCH SURROUNDING SURFACES. DO NOT REUSE MATERIALS AND EQUIPMENT, UNLESS SPECIFICALLY SPECIFIED ON PLANS. REMOVE FROM PREMISES AND DISPOSE OF ALL</li> </ul>
SWITCHES, AND CONTROLS.	OR OR	→ SQUARE TO ROUND TRANSITION → ROUND TO ROUND TRANSITION	<ul> <li>MATERIALS CONSIDERED BY ARCHITECT TO BE SCRAP.</li> <li>5- IT IS THE CONTRACTOR'S RESPONSIBILITY TO VISIT THE SITE AND BECOME THOROUGHLY FAMILIAR WITH ALL FEATURES OF THE BUILDING AND SITE, WHICH MAY AFFECT THE PROPER PERFORMANCE OF THIS WORK.</li> <li>6- EXERCISE EXTREME CAUTION IN EXCAVATING AND TRENCHING ON THIS SITE TO AVOID</li> </ul>
46"MAX-SIDE APPROACH 44"MAX-FRONT APPROACH AT ACCESSIBLE WORKSTATION	OR OR		EXERCISE EXTREME CAUTION IN EXCAVATING AND INCLINENTING ON THIS STIE TO AVOID EXISTING UNDERGROUND UTILITIES, AND TO PREVENT HAZARD TO PERSONNEL AND/OR DAMAGE TO EXISTING UNDERGROUND UTILITIES OR STRUCTURES. THESE DRAWINGS AND SPECIFICATIONS DO NOT INCLUDE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY, WHICH IS THE RESPONSIBILITY OF THE CONTRACTOR.
FINISHED FLOOR	U 300 CFM OR	SUPPLY AIR RECTANGULAR CEILING DIFFUSER 300 4-WAY AIR FLOW UNLESS SPECIFIED ON THE CFM FLOOR PLANS, 300 CFM, SEE AIR DISTRIBUTION SCHEDULE FOR SIZE AND MODEL	1. THIS SECTION INCLUDES LIMITED SCOPE OF SELECTIVE MECHANICAL DEMOLITION WORK AS FOLLOWS:
CLEARANCE FOR FRONT APPROACH OVER OBSTRUCTION.	CFM OR	RETURN AIR RECTANGLAR CEILING REGISTER /GRILLE, 250 CFM, SEE AIR DISTRIBUTION SCHEDULE FOR SIZE AND MODEL	<ul> <li>A. NONDESTRUCTIVE REMOVAL OF MATERIALS AND EQUIPMENT FOR REUSE OR SALVAGE AS INDICATED.</li> <li>B. DISMANTLING MECHANICAL MATERIALS AND EQUIPMENT MADE OBSOLETE BY THESE INSTALLATIONS.</li> </ul>
CAL COMPONENTS SHALL BE ANCHORED AND APPROVED CONSTRUCTION DOCUMENTS. THE RED OR BRACED TO MEET THE FORCE AND IN THE 2022 CBC, SECTIONS 1617A.1.18 THROUGH	OR	350       EXHAUST AIR GRILLE, 350 CFM, SEE AIR         CFM       DISTRIBUTION SCHEDULE FOR SIZE AND MODEL.	<ul> <li>2 GENERAL CONDITIONS</li> <li>A. GENERAL: SUBMIT THE FOLLOWING IN ACCORDANCE WITH CONDITIONS OF CONTRACT AND DIVISION 01 AND 23 SPECIFICATION SECTIONS.</li> <li>B. SCHEDULES INDICATING PROPOSED METHODS AND SEQUENCE OF OPERATION FOR SELECTIVE DEMOLITION PRIOR TO COMMENCEMENT OF WORK. INCLUDE COORDINATION FOR SHUT-OFF OF UTILITY SERVICES AND DETAILS FOR DUST AND NOISE CONTROL.</li> </ul>
PONENTS. IPMENT THAT IS PERMANENTLY ATTACHED (E.G. HARD ICES SUCH AS ELECTRICITY, GAS, OR WATER. IDE ALL ELECTRICAL CONNECTIONS EXCEPT PLUGS	Ì Ì OR	SIDE WALL REGISTER SUPPLY AIR SIDE WALL REGISTER RETURN AIR FIRE DAMPER	<ol> <li>COORDINATE SEQUENCING AND OWNER OCCUPANCY SPECIFIED IN DIVISION 01.</li> <li>COORDINATE OTHER SELECTIVE DEMOLITION WORK AS OUTLINED IN DIVISION 01.</li> <li>PROJECT CONDITIONS         <ul> <li>A. CONDITIONS AFFECTING SELECTIVE DEMOLITION: THE FOLLOWING PROJECT CONDITIONS APPLY:</li> </ul> </li> </ol>
IPMENT WHICH IS HEAVIER THAN 400 POUNDS OR EET OR MORE ABOVE THE ADJACENT FLOOR OR ROOF OMPONENT IS REQUIRED TO BE RESTRAINED IN A CAL COMPONENTS SHALL BE POSITIVELY ATTACHED TO			<ol> <li>PROTECT ADJACENT MATERIALS INDICATED TO REMAIN. INSTALL AND MAINTAIN DUST AND NOISE BARRIERS TO KEEP DIRT, DUST, AND NOISE FROM BEING TRANSMITTED TO ADJACENT AREAS. REMOVE PROTECTION AND BARRIERS AFTER DEMOLITION OPERATIONS ARE COMPLETE.</li> <li>LOCATE, IDENTIFY, AND PROTECT MECHANICAL SERVICES PASSING THROUGH DEMOLITION AREA AND SERVING OTHER AREAS OUTSIDE THE DEMOLITION LIMITS. MAINTAIN SERVICES TO AREAS OUTSIDE DEMOLITION LIMITS. WHEN SERVICES MUST BE INTERRUPTED, INSTALL TEMPORARY SERVICES FOR AFFECTED AREAS. PROVIDE MINIMUM OF 72-HOUR NOTICE TO OWNER PRIOR TO</li> </ol>
RATE DESIGN COMPLIANCE WITH THE REFERENCES HAVE FLEXIBLE CONNECTIONS PROVIDED BETWEEN IRK, PIPING, AND CONDUIT. FLEXIBLE CONNECTIONS RSE AND LONGITUDINAL DIRECTIONS. O POUNDS AND HAVE A CENTER OF MASS LOCATED 4		MANUAL VOLUME DAMPER DOOR LOUVER UNDERCUT (DOOR)	UTILITY INTERRUPTION. 4 SEQUENCE AND SCHEDULING A. COORDINATE THE SHUT-OFF AND DISCONNECTION OF UTILITY SERVICES WITH THE OWNER AND THE UTILITY COMPANY. B. NOTIFY THE ARCHITECT AT LEAST 5 DAYS PRIOR TO COMMENCING DEMOLITION OPERATIONS.
POUNDS, OR IN THE CASE OF DISTRIBUTED SYSTEM, CH ARE SUSPENDED FROM A ROOF OR FLOOR OR	$(T)_3$ (BT)	THERMOSTAT # CORRESPONDS WITH UNIT NUMBER, SEE DETAIL BELOW. BY-PASS TIMER NIGHT THERMOSTAT	<ul> <li>C. PERFORM DEMOLITION IN PHASES AS INDICATED.</li> <li>5 EXAMINATION</li> <li>A. EXAMINE AREAS WHERE SELECTIVE DEMOLITION IS TO OCCUR. DETERMINE EXTENT OF WORK AND AFFECT ON EXISTING CONDITIONS TO REMAIN. ADVISE ARCHITECT OF ANY CONDITIONS THAT MIGHT CREATE EXTENSIVE ALTERATIONS BEYOND INDICATED SCOPE.</li> </ul>
N PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE PONSIBILITY AND ACCEPTANCE BY DSA. THE PROJECT ENTS AND EQUIPMENT HAVE BEEN ANCHORED IN NTS.	RT SD TS	RETURN AIR THERMOSTAT DUCT SMOKE DETECTOR TIME SWITCH	<ul> <li>6 SELECTIVE DEMOLITION</li> <li>A. GENERAL: DEMOLISH, REMOVE, DEMOUNT, AND DISCONNECT ABANDONED MECHANICAL MATERIALS AND EQUIPMENT INDICATED TO BE REMOVED AND NOT INDICATED TO BE SALVAGED OR SAVED.</li> <li>B. MATERIALS AND EQUIPMENT TO BE SALVAGED: REMOVE, DEMOUNT, AND DISCONNECT EXISTING MECHANICAL MATERIALS AND EQUIPMENT INDICATED TO BE REMOVED AND SALVAGED, AND DELIVER MATERIALS AND EQUIPMENT TO THE LOCATION DESCONATED FOR STORAGE</li> </ul>
IBUTION SYSTEMS SHALL BE BRACED TO COMPLY SCRIBED IN ASCE 7-16 SECTION 13.3 AS DEFINED 13.6.7, 13.6.8; AND THE 2022 CBC, SECTIONS		TWIST TIMER OVERRIDE SWITCH DOOR SENSOR	<ul> <li>MATERIALS AND EQUIPMENT TO THE LOCATION DESIGNATED FOR STORAGE.</li> <li>C. DISPOSAL AND CLEANUP: REMOVE FROM THE SITE AND LEGALLY DISPOSE OF DEMOLISHED MATERIALS AND EQUIPMENT NOT INDICATED TO BE SALVAGED.</li> <li>D. MECHANICAL MATERIALS AND EQUIPMENT: DEMOLISH, REMOVE, DEMOUNT, AND DISCONNECT THE FOLLOWING ITEMS:</li> </ul>
W. WHEN BRACING AND ATTACHMENT ARE BASED ON , HCAI OPM FOR 2013 CBC OR LATER), COPIES OF OR MANUAL SHALL BE AVAILABLE ON THE JOBSITE HANGING AND BRACING OF THE DISTRIBUTION RECORD SHALL VERIFY THE ADEQUACY OF THE D BRACE LOADS.	OD WS Ø	DUCT DETECTOR WALL SWITCH DIAMETER / ROUND	<ul> <li>1. INACTIVE AND OBSOLETE PIPING, FITTINGS AND SPECIALTIES, EQUIPMENT, DUCTWORK, CONTROLS, FIXTURES, AND INSULATION.</li> <li>a. PIPING AND DUCTS EMBEDDED IN FLOORS, WALLS, AND CEILINGS MAY REMAIN IF SUCH MATERIALS DO NOT INTERFERE WITH NEW INSTALLATIONS. REMOVE MATERIALS ABOVE ACCESSIBLE CEILINGS. DRAIN AND CAP PIPING AND DUCTS ALLOWED TO REMAIN.</li> <li>2. PERFORM CUTTING AND PATCHING REQUIRED FOR DEMOLITION.</li> </ul>
CTS (MD), PLUMBING PIPING (PP), ELECTRICAL	ф	SQUARE FEET	STRUCTURAL NOTES
ED ON THE APPROVED DRAWING WITH PROJECT AND DETAILS. COMPLY WITH HCAI (OSHPD) PRE-APPROVAL (OPM#)	• 0	ZONE CONTROL DAMPER BY-PASS DAMPER POINT OF CONNECTION	1- UNLESS SPECIFICALLY SHOWN ON THESE PLANS NO STRUCTURAL MEMBER SHALL BE CUT, NEITHER DRILLED NOR NOTCHED WITHOUT PRIOR WRITTEN AUTHORIZATION FROM THE STRUCTURAL ENGINEER AND THE DIVISION OF THE STATE ARCHITECT/AUTHORITIES HAVING JURISDICTION.
		POINT OF REMOVAL	2- CUTTING, BORING, SAWCUTTING OR DRILLING THROUGH THE NEW OR EXISTING STRUCTURAL ELEMENTS TO BE DONE ONLY WHEN SO DETAIL IN THE DRAWINGS OR ACCEPTED BY THE ARCHITECT WITH THE APPROVAL OF DSA/AHJ.
		PIPING SYMBOLS PIPING BRANCH	<ul> <li>3- ALL WELDING SHALL BE SPECIALLY INSPECTED BY AN AWS-CWI QUALIFIED INSPECTOR APPROVED BY DSA/AHJ.</li> <li>4- ALL BRACING OF DUCTWORK AND PIPING SHALL BE INSTALLED IN ACCORDANCE WITH</li> </ul>
			5- WHERE BRACING DETAILS ARE NOT SHOWN ON THE DRAWINGS OR IN THE SMACNA GUIDELINES, THE FIELD INSTALLATION SHALL BE SUBJECTED TO THE APPROVAL OF THE
		COORDINATION	6- A COPY OF THE MANUAL PUBLISHED BY SMACNA SHALL BE PROVIDED BY THE CONTRACTOR AND KEPT ON THE JOB AT ALL TIMES.
	<ol> <li>THESE DRAWING AND OTHER WO LOCATED. THE I CONFIGURATIONS TRADES. THE C CONNECTION OF</li> <li>THE CONTRACTO ARCHITECTURAL,</li> </ol>	S ARE DIAGRAMMATIC AND SHOW IN GENERAL WHERE THE DUCTWORK, P RK SPECIFIED IN THE HVAC SECTIONS OF THE SPECIFICATIONS IS TO BE DRAWINGS DO NOT NECESSARILY INDICATE ANY AND ALL OFFSETS AND S REQUIRED FOR COORDINATION WITH THE SPACE REQUIREMENTS OF OTH ONTRACTOR IS RESPONSIBLE FOR THE CORRECT PLACING, LOCATION, AND THIS WORK IN RELATION TO THE WORK OF OTHER TRADES. DR SHALL EXAMINE AND COORDINATE WITH ALL MECHANICAL, PLUMBING, STRUCTURAL, ELECTRICAL AND OTHER DRAWINGS THAT HAVE BEEN	PIPING7-DESIGN CRITERIA GROUND SNOW LOAD = 5 PSFHER DRISK CATEGORY = III BASIC DESIGN WIND SPEED V = 115 MPH EXPOSURE CATEGORY = CCIVIL,SDS = 0.95 SITE CLASS = D-DEFAULT
	PREPARED FOR FOR THEM IN F 3- COORDINATE FIN SPECIFIED ON E	THIS PROJECT, AND ACCEPT SUCH CONDITIONS, AND MAKE ALLOWANCES PREPARING THE BID. NISHING COLOR OF ALL AIR TERMINALS WITH ARCHITECT. FINISHING COLOF EQUIPMENT SCHEDULE IS FOR REFERENCE ONLY.	COMBINATION SMOKE/FIRE DAMPER NOTE
	4– CONTRACTOR SI DUCTWORK ROC REQUIREMENTS	HALL COORDINATE WITH GENERAL CONTRACTOR FOR SIZE AND LOCATION IF/WALL OPENINGS AND WITH ELECTRICAL CONTRACTOR FOR ELECTRICAL OF ALL MECHANICAL EQUIPMENT.	OF 1- FIRE DAMPERS SHALL BE STATE FIRE MARSHAL APPROVED, UL LISTED AND INSTALLED STRICTLY IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS AND LISTING. MANUFACTURER'S INSTRUCTIONS SHALL BE MADE AVAILABLE TO THE INSPECTING AUTHORITY. DETAILS SHOWN ARE FOR REFERENCE ONLY.
-	POL	LUTANT CONTROL NOTES	
	FOR THE PERIOD OF UNTIL FINAL STARTUF DPENINGS AND PRD OTHER RELATED AIR SHEET METAL OR OT ADHESIVES, SEALANT THE CALIFORNIA GRE	ROUGH INSTALLATION, OR DURING STORAGE ON THE CONSTRUCTION SIT P OF THE HEATING AND COOLING EQUIPMENT, PROVIDE COVERING OF I TECTION OF MECHANICAL EQUIPMENT DURING CONSTRUCTION. ALL DUC DISTRIBUTION COMPONENT OPENINGS SHALL BE COVERED WITH TAPE, PL HER METHODS ACCEPTABLE TO THE ENFORCING AGENCY. (5.504.3 CAL C S, AND CAULKS USED ON THE PROJECT SHALL MEET THE REQUIREMENTS EN BUILDING STANDARDS (5.504.4.1 CAL GREEN)	AND 1- ALL SUPPLY AND RETURN AIR DUCTWORK SHALL BE ACOUSTICALLY LINED FROM CONNECTION POINT OF UNIT TO MIN. 20 FEET DOWN STREAM OF THE UNIT OPENING. SEE MECHANICAL DRAWINGS FOR EXTENDED (MORE THAN 20')REQUIREMENT OF DUCT LINING. ALL BRANCH DUCTWORK WITH TAKEOFF FROM MAIN SUPPLY/RETURN DUCTS WITHIN 20 FEET OF THE UNIT OPENING SHALL BE ACOUSTICALLY LINED IN ITS ENTIRETY INCLUDING ANY DUCT FITTINGS, ELBOWS, SUB-BRANCH DUCTS, AND SUPPLY/RETURN DIFFUSER/GRILLE PLENUMS. ALL DUCT FITTINGS AND ELBOWS WHERE SHOWN TO BE CONNECTED TO A LINED DUCTWORK SHOULD BE PROVIDED WITH THE SAME LINING SPECIFIED FOR THE DUCT. DUCT LINING AND INSULATION MATERIAL AND THICKNESS SHALL BE PER SPECIFICATION BOOK. SEE MECHANICAL FLOOR PLANS FOR EXTENDED (MORE THAN 20') DUCT LINING REQUIREMENTS.

### LS LIST

### GENERAL DEMOLITION NOTES

### SELECTIVE DEMOLITION NOTES

General: demolish, remove, demount, and disconnect abandoned mechanical materials and 🛛 27— TAKE ALL PRECAUTIONS NECESSARY TO PROTECT THE MATERIALS BEFORE, QUIPMENT INDICATED TO BE REMOVED AND NOT INDICATED TO BE SALVAGED OR SAVED. MATERIALS AND EQUIPMENT TO BE SALVAGED: REMOVE, DEMOUNT, AND DISCONNECT EXISTING

### STRUCTURAL NOTES

### MBINATION SMOKE/FIRE DAMPER NOTE

### DUCT LINING NOTE

SHEET. SEE DETAIL BELOW. · ALL INDIVIDUAL DUCTWORK BRANCH CONNECTING TO SUPPLY, RETURN, EXHAUST, OUTSIDE AIR, ETC.. AIR TERMINAL SHALL BE EQUIPPED WITH A MANUAL VOLUME DAMPER. 4- ALL SQUARE ELBOWS TO BE PROVIDED WITH TURNING VANES UNLESS OTHERWISE INDICATED. – DO NOT USE SQUARE ELBOW WITH TURNING VANES AT THE FIRST CHANGE

1- ALL DUCT DIMENSIONS ON DRAWINGS TO BE INSIDE CLEAR.

IN DIRECTION OF AIR AFTER THE FAN DISCHARGE. INSTALL ACOUSTICALLY LINED RADIUS ELBOW. 5- TO DETERMINE THE EXACT NUMBER AND LOCATION OF FIRE DAMPERS AND

GENERAL NOTES

- COMBINATION SMOKE/FIRE DAMPERS THAT MAY BE REQUIRED, THE CONTRACTOR SHALL REVIEW THE ARCHITECTURAL DRAWINGS WHICH INDICATE THE LOCATION OF FIRE RATED WALLS, PARTITIONS AND CEILINGS.
- COORDINATE LOCATION OF CEILING DIFFUSERS, REGISTERS AND GRILLES WITH ARCHITECTURAL REFLECTED CEILING PLAN AND ELECTRICAL LIGHTING PI AN
- B- FOR BUILDING LOCATIONS, DIMENSIONS AND GRADE ELEVATIONS SEE ARCHITECTURAL AND STRUCTURAL DRAWINGS. 9- PROVIDE WATER-PROOFING FOR ALL EQUIPMENT ANCHORAGE ON ROOF AND
- DUCT PENETRATIONS THRU ROOF PER ARCHITECTURAL DETAILS. 10- ROUND AND RECTANGULAR DUCTWORK IS INTERCHANGEABLE UPON APPROVAL OF MECHANICAL ENGINEER. CONTRACTOR IS TO VERIFY THE
- EXACT CEILING SPACE AND INTERCHANGE THE DUCT SIZE TO FIT THE CEILING SPACE WITHOUT ADDITIONAL FEE.
- II PROVIDE BACK-DRAFT DAMPER FOR ALL EXHAUST AIR DUCT THRU BUILDING ENVELOPE UNLESS OTHERWISE NOTED.
- 12- provide all fresh air intakes and exhaust outlets with hood, 1/2" GALVANIZED MESH SCREENS.
- 13- EXHAUST DUCT TERMINATION SHALL BE MINIMUM 10'-0" AWAY OR 3'-0" ABOVE FROM ANY FRESH AIR INTAKE, OPENABLE WINDOWS, DOORS AND 10'-0" MINIMUM ABOVE GRADE.
- I 4- CONTRACTOR SHALL COORDINATE MOUNTING HEIGHT OF ALL DUCTWORK WITH THE WORK OF ALL OTHER TRADES SUCH AS STRUCTURAL BEAMS, PLUMBING PIPING, FIRE SPRINKLER PIPING, ELECTRICAL CONDUITS, LIGHT FIXTURES, ETC.. WHERE REQUIRED OR NOTED ON DRAWINGS, RUN DUCTWORK BETWEEN LIGHT FIXTURES, BEAMS, ETC..
- 15 PROVIDE WATER PROOFING FOR ALL FLASHING AND COUNTERFLASHING FOR MECHANICAL WORK.
- I 6- THESE DRAWINGS AND SPECIFICATIONS DO NOT INCLUDE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY.
- I7- SYMBOLS AND ABBREVIATIONS ON THIS SHEET ARE SHOWN FOR REFERENCE; NOT ALL SYMBOLS AND ABBREVIATIONS MAY BE USED.
- 18- ALL NOTES ON THIS SHEET REMAIN PART OF THE CONTRACT DOCUMENTS. 19- ASBESTOS OR HAZARDOUS WASTE: IT IS UNDERSTOOD AND AGREED THAT THIS CONTRACT DOES NOT CONTEMPLATE THE HANDLING OF ASBESTOS OR ANY HAZARDOUS WASTE MATERIAL. IF ASBESTOS OR ANY HAZARDOUS WASTE MATERIAL IS ENCOUNTERED, NOTIFY THE OWNER IMMEDIATELY. DO NOT DISTURB, HANDLE OR ATTEMPT TO REMOVE.
- 20- FOR ACTUAL DIMENSIONS OF LOUVER SIZES SEE ARCHITECTURAL DRAWINGS, PROVIDE AND ATTACH PLENUMS AND OR DUCTS TO ACCOMMODATE THOSE DIMENSIONS AS NEEDED.
- 21 UNIT NUMBERS FOR MECHANICAL EQUIPMENT SHOWN IN SCHEDULES ARE FOR TYPE OF UNIT ONLY. FOR QUANTITIES & LOCATIONS OF MECHANICAL UNITS, SEE MECHANICAL DRAWINGS.
- 22- ALL ZONE DAMPERS AND COMBINATION SMOKE FIRE DAMPERS TO BE PERMANENTLY LABELED TO INDICATE THE ROOM(S) THEY SERVE. 23- ALL WORK SHALL CONFORM TO THE 2019 EDITION OF THE CALIFORNIA
- MECHANICAL CODE, INCLUDING ALL APPLICABLE STATE TITLE 24 AMENDMENTS, CITY AND COUNTY LAWS AND ORDINANCES.
- 24- THE CONTRACTOR SHALL FURNISH AND INSTALL ACCESS DOORS AND/OR ACCESS PANELS AT LOCATIONS AS NECESSARY TO PROVIDE ACCESSIBILITY FOR SERVICE/ MAINTENANCE OF FIRE/SMOKE DAMPERS, MECHANICAL EQUIPMENT AND DEVICES. ALL ACCESS DOORS AND PANEL LOCATIONS AND SIZES SHALL BE PROVIDED BY CONTRACTOR AND SUBMITTED TO ARCHITECT PRIOR TO INSTALLATION FOR VERIFICATION PURPOSES.
- 25- CONTRACTOR SHALL VISIT SITE PRIOR TO BID TO VERIFY OPERABILITY, LOCATION AND SIZES OF ALL EXISTING EQUIPMENT/ SERVICES AND INFORM THE ARCHITECT OF ANY DISCREPANCIES.
- 26- THE CONTRACTOR SHALL FURNISH ALL MATERIALS, LABOR, EQUIPMENT, TRANSPORTATION AND SERVICES NECESSARY FOR COMPLETION OF THE WORK. ALL MATERIALS AND WORK SHALL COMPLY WITH APPLICABLE CODES AND GOVERNING REGULATIONS AND MEET THE APPROVAL OF THE LOCAL JURISDICTION, OR DIVISION OF STATE ARCHITECT, WHERE APPLICABLE.
- DURING AND AFTER INSTALLATION. IN THE EVENT OF DAMAGE, IMMEDIATELY REPAIR ALL DAMAGED AND DEFECTIVE WORK TO THE APPROVAL OF THE ARCHITECT AT NO ADDITIONAL COST TO THE OWNER.
- 28- ALL SPACE CONDITIONING EQUIPMENT SHALL BE CERTIFIED BY MANUFACTURER TO COMPLY WITH ALL APPLICABLE REQUIREMENTS OF CALIFORNIA BUILDING ENERGY EFFICIENCY STANDARDS.
- 29 INSTALLATION INSTRUCTIONS FOR ALL LISTED EQUIPMENT SHALL BE MADE AVAILABLE TO THE BUILDING INSPECTOR AT THE TIME OF INSPECTION. 30 – PROVIDE AIR DIFFUSERS AND GRILLES TO MATCH THE CURVATURE WHEN AIR DIFFUSERS AND GRILLES APPEAR TO BE CURVED OR TO BE INSTALLED
- ON A CURVED SURFACE. 31 – ALL PARTS OF AN EXPOSED AIR DISTRIBUTION SYSTEM TO BE PAINTED AS REQUIRED PER ARCHITECT. COORDINATE FINISHING COLOR WITH ARCHITECT.

MANUAL VOLUME DAMPER NOTE

PROVIDE MANUAL VOLUME DAMPERS WITH REMOTE CONTROL WHERE HARD LID CEILING IS INSTALLED OR ACCESS TO TYPICAL MANUAL VOLUME DAMPER IS NOT POSSIBLE. PROVIDE PRODUCTS OF METROPOLITAN AIR TECHNOLOGY, ROTO-TWIST MODEL NUMBER RT-250 SERIES III FOR ROUND DUCT AND MODEL RT-100 SP/CC FOR RECTANGULAR DUCT APPLICATION OR APPROVED EQUAL PRODUCTS. PROVIDE GUIDE CABLE OF REQUIRED LENGTH FOR INSTALLATION OF THE CEILING CUP AND COVER PLATE AT LOCATIONS APPROVED BY ARCHITECT. CONTRACTOR SHALL SUBMIT ON PROPOSED LOCATIONS OF CEILING CUPS FOR REVIEW AND

- 1- TEMPERATURE THERMOSTAT: TEMPERATURE RANGE 55°F TO 85°F SEQUENCE HEATING AND COOLING, ADJUSTABLE TO 10°F BETWEEN HEATING AND COOLING, CAPABILITY TO TERMINATE ALL HEATING AT NO MORE THAN 70°F AND TERMINATE ALL COOLING AT NOT LESS THAN 78°F OR PROVIDE
- 2- THE LOCATION OF THERMOSTATS TO BE FINALIZED DURING CONSTRUCTION. IF THE LOCATION OF THE THERMOSTATS SHOWN ON MECHANICAL DRAWINGS ARE IN CONFLICT WITH BUILDING ELEMENTS OR DESIGN, CONTRACTOR SHALL RELOCATE THE THERMOSTAT AND RUN REQUIRED WIRING FOR A SUCCESSFUL INSTALLATION TO ANOTHER LOCATION APPROVED BY MECHANICAL ENGINEER AND ARCHITECT AT NO ADDITIONAL
- LOCATION SHOWN ON MECHANICAL DRAWINGS. 3- DO NOT INSTALL THERMOSTATS WHERE THE OPERATION OF THE DEVICE MAY BE EFFECTED BY:
- a. DIRECT SUNSHINE EFFECT. b. MINIMIZED AIR CIRCULATION (BEHIND THE DOORS OR CABINETS OR SIMILAR LOCATIONS).
- c. OUTDOOR TEMPERATURE (ON EXTERIOR WALLS, OR SIMILAR LOCATIONS).
- d. HEAT GENERATING EQUIPMENT (PROVIDE PROPER DISTANCE FROM HEAT GENERATING EQUIPMENT).
- e. LOCATIONS SHOWN ON THE DRAWINGS ARE FOR REFERENCE ONLY. Contractor shall coordinate between drawings and works of |  $\square$ OTHER TRADES AND ENSURE PROPER LOCATION SELECTION FOR INSTALLATION OF THE THERMOSTAT FOR SATISFACTORY OPERATION OF THE DEVICE.
- THERMOSTATS SHALL BE INSTALLED AT HEIGHTS SHOWN ON CONTRACT DOCUMENTS AND AS REQUIRED FOR ACCESSIBILITY REGULATIONS.
- 4- PROVIDE INSULATED THERMOSTAT BOX IF THERMOSTAT TO BE INSTALLED ON EXTERIOR WALL.

- APPROVAL BY THE ARCHITECT. THERMOSTAT NOTES
- T-STAT TO MEET THE OWNER'S STANDARDS. WHERE APPLICABLE.
- COST TO THE OWNER UP TO MAXIMUM 20' AWAY FROM ORIGINAL

![](_page_10_Picture_81.jpeg)

POWER EXHAUST SCHEDULE (FOR PACKAGED AIR CONDITIONER UNITS)										
UNIT SYMBOL	PE-A1	PE-A1 PE-K1		PE-M2						
SERVICE	AC-A1	AC-K1	AC-M1	AC-M2						
MANUFACTURER	MICROMETL	MICROMETL	MICROMETL	MICROMETL						
MODEL	PECH-SRT34CB-D0DB-4L2-4	PECE-SRT05CB-D0DB-4L3-4	PCC-MRT69CA-D-4L4	PCE-SRT05CA-D-4L3						
CONTROL TYPE	DIFFERENTIAL DRY BULB TEMPERATURE	DIFFERENTIAL DRY BULB TEMPERATURE	DIFFERENTIAL DRY BULB TEMPERATURE	DIFFERENTIAL DRY BULB TEMPERATURE						
TYPE	MODULATING	MODULATING	MODULATING	MODULATING						
MOTOR SIZE – HP	2.0	3.0	4.0	3.0						
VOLTAGE / PHASE	460 / 3	460 / 3	460 / 3	460 / 3						
FLA	4.5	6.5	10.5	6.5						
MCA / MOCP	5.6 / 10.1	8.1 / 14.6	13.1 / 23.6	8.1 / 14.6						
WEIGHT (LBS.)	285	313	323	222						
REMARKS	1,2	1,2	1,2	1,2						

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1- PROVIDE SEPARATE POWER SOURCE AND DISCONNECT TO POWER EXHAUST UNIT. PASS-THRU POWER FROM AIR CONDITIONING UNIT TO POWER EXHAUST IS NOT ACCEPTABLE.
 2- POWER EXHAUST SHALL RELIEVE THE EXCESS AIR TO MAINTAIN BUILDING PRESSURE DURING UNIT OPERATION. POWER EXHAUST SHALL BE CAPABLE OF 100% ECONOMIZER MODE TO RELIEVE 100% AIR.

AIR CON	IDITIONER SCHEDULE (GRADE MOU	NTED)						
UNIT SYMBOL		AC-A1	AC-L1	AC-K1	AC-M1	AC-M2	AC-M3	
LOCATION		GRADE	GRADE	GRADE	GRADE	GRADE	GRADE	
SERVICE		ADMINISTRATION 100	LIBRARY 200	KINDERGARTEN 300	MULTI-PURPOSE 500	MULTI-PURPOSE 500	MULTI-PURPOSE 5	
SHEET REFER	ENCE	M2-1.1	M2-1.2	M2-1.3	M2-1.4	M2-1.4	M2-1.4	
MANUFACTURE	R	CARRIER	CARRIER	CARRIER	CARRIER	CARRIER	CARRIER	
MODEL		48FCDM12	48FCEM12	48FCEM16	48FCEM24	48FCEM24	48FCDM12	
TYPE		GAS/ELEC	GAS/ELEC	GAS/ELEC	GAS/ELEC	GAS/ELEC	GAS/ELEC	
DISCHARGE		SIDE	SIDE	SIDE	SIDE	SIDE	SIDE	
7	INDOOR FAN - CFM	4000	4720	6000	8000	8000	4000	
Y FAN	MIN. OUTSIDE AIR - CFM	600	900	1350	3375	3375	2790	
UPPL	EXTERNAL S.P "WG	1.20	1.20	1.20	1.20	1.20	1.20	
	BLOWER BHP / RPM	2.36 / 1885	3.09 / 2077	3.24 / 1859	5.59 / 1964	5.59 / 1964	2.36 / 1885	
	EVAP. EAT - °F - DB	80.0	80.0	80.0	80.0	80.0	80.0	
	EVAP. EAT - °F - WB	67.0	67.0	67.0	67.0	67.0	67.0	
	EVAP. LAT – °F – DB	59.4	60.7	61.1	60.8	60.8	59.4	
	EVAP. LAT – °F – WB	58.5	59.7	58.9	58.4	58.4	58.5	
SN	CND. EAT – °F – DB	115.0	115.0	115.0	115.0	115.0	115.0	
COOLI	COOLING CAPACITY - MBH	109.54	111.74	156.32	220.26	220.26	109.54	
	COOLING CAPACITY SENSIBLE – MBH	89.13	98.62	122.31	165.48	165.48	89.13	
	REFRIGERANT TYPE / CAPACITY (LBS-OZ)	R410A / 7.6	R410A / 7.6	R410A / 7.6	R410A / 7.6	R410A / 7.6	R410A / 7.6	
	ARI EER / SEER	11.00 / 15.00	11.00 / 15.00	10.80 / 14.50	10.00 / 14.50	10.00 / 14.50	11.00 / 15.00	
	COMPRESSOR INPUT - KW	11.51	11.56	16.86	25.33	25.33	11.51	
	INDOOR COIL EAT - °F - DB	65.0	65.0	65.0	65.0	65.0	65.0	
0 N	INDOOR COIL LAT - °F - DB	99.3	100.5	95.1	94.1	94.1	99.3	
НЕАТ	HEATING INPUT – STAGE / MBH	(2) 120.0/180.0	(2) 180.0/224.0	(2) 192.0/240.0	(2) 248.0/310.0	(2) 248.0/310.0	(2) 120.0/180.0	
	MIN AFUE %	82.0	82.0	81.0	81.0	81.0	82.0	
	COMPRESSOR NO. / RLA (EA)	2 / 7.7	2 / 7.7	2 / 14.7-8.2	2 / 16.0	2 / 16.0	2 / 7.7	
	OUTDOOR FAN MOTOR NO. / FLA (EA)	2 / 0.8	2 / 0.8	3 / 0.8	4 / 0.9	4 / 0.9	2 / 0.8	
RICAL	INDOOR FAN MOTOR FLA	5.6	5.6	5.6	5.6	5.6	5.6	
ELECT	COMBUSTION FAN MOTOR NO. / FLA (EA)	1 / 0.25	1 / 0.25	1 / 0.25	1 / 0.30	1 / 0.30	1 / 0.25	
	MCA / MOP	25 / 30	25 / 30	35 / 45	50.8 / 60.0	50.8 / 60.0	25 / 30	
	VOLTAGE / PHASE	460 / 3	460 / 3	460 / 3	460 / 3	460 / 3	460 / 3	
FILTER TYPE		2" - MERV-13	2" - MERV-13	2" - MERV-13	2" - MERV-13	2" - MERV-13	2" - MERV-13	
CONDENSER C	COIL HAIL GUARD (LOUVERED)	REQUIRED	REQUIRED	REQUIRED	REQUIRED	REQUIRED	REQUIRED	
FLUE DEFLECT	TOR	REQUIRED	REQUIRED	REQUIRED	REQUIRED	REQUIRED	REQUIRED	
ECONOMIZER	MANUFACTURER / MODEL NO.	MICROMETL	MICROMETL	MICROMETL	CARRIER	CARRIER	MICROMETL	
POWER FXHAL	IST MANUFACTURER / MODEL NO	MICROMETL	N/A	MICROMETL	MICROMETL	MICROMETL	N/A	
		PECH-SRT34CB-D0DB-4L2-	4	PECE-SRT05CB-D0DB-4L3-4	4 PCC-MRT69CA-D-4L4 MICROMETL	- PCE-SRT05CA-D-4L3 MICROMETL		
PLENUM CORE	3 MANUFACIURER / MUDEL NO.	N/A	N/A	N/A	CRBW-HE4F-EH-24-19CBC	CRBW-HE4F-EH-24-19CBC	N/A	
OPERATING WE	EIGHT (LBS)	958	976	1479	2911	2911	958	
DIMENSIONS (	L"×W"×H")	88.1" × 59.5" × 49.4	"88.1" × 59.5" × 49.4"	115.9" × 66.4" × 57.4'	141.5" × 86.4" × 47.8"	141.5" × 86.4" × 47.8"	88.1" x 59.5" x 49	
DETAIL REFER	ENCE	4,5/M0-2.2	1,4/MO-2.1	4,5/M0-2.2	1,2/M0-2.2	1,2/MO-2.2	1,4/MO-2.1	
REMARKS <b>REMARK</b> 1- UNIT COMP 2- OPERATING 3- FOR UNITS 4- UNIT COMP 5- VARIABLE 6- PROVIDE L 7- PROVIDE F	<b>(S</b> Plete with modulating economizer with 100% outside air i G weight includes weight of base unit, accessories and e S equipped with power exhaust, provide dedicated space Plete with factory provided fire marshal approved, ul li Speed indoor fan. OW sound outdoor fan. Actory mounted and tested bipolar ionization system per	1,2,3,4,5,6,7 NTAKE, LOUVERED HAIL GUARD AN CONOMIZER. PRESSURE SENSORS IN ALL REQU ISTED SMOKE DETECTOR FOR AIR R UNIT SPECIFICATION REQUIREMEN	1,2,4,5,6,7 ID FLUE DEFLECTOR. IIRED SPACES AND INTERLO MOVING SYSTEM SUPPLYING ITS. MANUFACTURER SHALL	1,2,3,4,5,6,7 DCK WITH UNIT POWER EXH G IN EXCESS OF 2000 CF . PROVIDE A TRANSFORMER	1,2,3,4,5,6,7 HAUST. M FOR AUTOMATIC SHUT C PACKAGE TO INTERNALLY	1,2,3,4,5,6,7 PFF. POWER THE BIPOLAR IONI	1,2,4,5,6,7 ZATION.	
EXISTIN	G AIR CONDITIONER AND NEW AIR		MPARISON SCH					
LINIT SYMDO					Λ.Υ.Μ.1	AC_M2	٨٢ _ ١٨٦	
MANUFACTURE	R		BRYANT CARRIER	CARRIER CARRIER		CARRIFR CARRIER	CARRIER CARRIE	

EXISTING AIR CONDITIONER AND NEW AIR CONDITIONER COMPARISON SCHEDULE												
UNIT SYMBOL	AC	—A1	AC	-L1	AC	-K1	AC	—M1	AC	-M2	AC-	-M3
MANUFACTURER	CARRIER	CARRIER	BRYANT	CARRIER	CARRIER	CARRIER	CARRIER	CARRIER	CARRIER	CARRIER	CARRIER	CARRIE
CONDITION	EXISTING	NEW	EXISTING	NEW	EXISTING	NEW	EXISTING	NEW	EXISTING	NEW	EXISTING	NEW
MODEL	48HJD012	48FCDM12	581BEV15	48FCEM12	48HJE017	48FCEM16	48HJD025	48FCEM24	48HJD025	48FCEM24	48HJD012	48FCDN
DIMENSIONS (LxWxH) - IN	87.4 x 57.75 x 49.	488.1 x 59.5 x 49.4	87.4 x 57.75 x 49.4	4 88.1 x 59.5 x 49.	4 83.5 x 67.2 x 45	115.9 x 66.4 x 57.4	83.5 x 67.2 x 47.2	5141.5 x 86.4 x 47.8	383.5 x 67.2 x 47.2	5141.5 x 86.4 x 47.8	87.4 x 57.75 x 49.4	488.1 x 59.5 >
UNIT WEIGHT – LBS	1035	847	1050	865	1800	1345	1900	1926	1900	1926	1035	847
ECONOMIZER WEIGHT – LBS	187	111	187	111	180	134	110	245	110	245	187	111
POWER EXHAUST WEIGHT – LBS	ON RETURN DUCT (285)	ON RETURN DUCT (285)	N/A	N/A	ON RETURN DUCT (313)	ON RETURN DUCT (313)	330	ON RETURN DUCT (323)	330	ON RETURN DUCT (222)	N/A	N/A
PLENUM CURB WEIGHT – LBS	N/A	N/A	N/A	N/A	N/A	N/A	740	740	740	740	N/A	N/A
TOTAL WEIGHT – LBS	1222	958	1237	976	1980	1479	3080	2911	2010	2911	1222	958

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT APP: 04-122079 INC: REVIEWED FOR SS 🗹 FLS 🗹 ACS 🗌 DATE: 09/20/2023  $\bigcirc$  $\square \bigcirc \blacksquare$ N S G ARCHITECTURE I PLANNING I INTERIOR DESIGN 19520 Jamboree Road | Suite 100 Irvine I California I 92612 949.250.0880 | FAX 949.250.0882 www.westgroupdesigns.com 1920 E Warner Ave., Suite 3-H Santa Ana, CA 92705 Telephone (714) 884-3834 Fax (714) 884–3834 PEI #600.030 BRENTWOOD ELEMENTARY SCHOOL VICTOR ELEMENTARY SCHOOL DISTRICT 13962 HOOK BLVD. VICTORVILLE, CA 92394 SSUED FOR: )0B REVISIONS: 94' REGISTRATION/SIGNATURE: HEET TITLE: × 49.4 MECHANICAL SCHEDULES SHEET NUMBER: M0-1 WD PROJ. # DRAWN BY: CHECKED DATE 07/18/23 22825 © WESTGROUP DESIGNS, INC.

AIR CONDIT
UNIT SYMBOL
LOCATION
SHEET REFERENCE
MANFACTURER
MODEL
TYPE
INDOOR FAN - CFM
OUTSIDE AIR - CFM
external s.p. – "wg
BLOWER MOTOR - HP
evap. eat - °f - D
EVAP. EAT — °F — W
COND. EAT – °F – E
COOLING CAPACITY -
COOLING CAPACITY SE
HEATING INPUT – MBH
FILTER TYPE
MCA / MOCP
MIN. EER
MIN. AFUE %
VOLTS – PHASE
WALL SOUND CURB M
OPERATING WEIGHT (L
DIMENSIONS (H"xW";
DETAIL REFERENCE
REMARKS
1- INSTALL UNIT AND 2- MATCH COLOR WITH
3- II IS THE INTENT T ADEQUATE WITHOUT
4- ACCESSORY AND O
EXISTING WAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
RELOCATABLE NUMBE
UNIT SYMBOL
MANUFACTURER
CONDITION
MODFI
TYPE
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AIR CONDITIONER SCHEDULE (WALL MOUNTED)		
UNIT SYMBOL	AC-R1	
LOCATION	RELOCATABLE CLASSROOMS	
SHEET REFERENCE	M1-1.1/M2-1.6	
MANFACTURER	BARD	
MODEL	W30G4-AXBXX4XXH	
TYPE	WALL MOUNTED	
INDOOR FAN - CFM	975	
OUTSIDE AIR – CFM	400	
EXTERNAL S.P. – "WG	0.5	
BLOWER MOTOR - HP	0.5	
EVAP. EAT - °F - DB	80.0	
EVAP. EAT - °F - WB	67.0	
COND. EAT - °F - DB	95.0	
COOLING CAPACITY – MBH	27.8	
COOLING CAPACITY SENS - MBH	20.7	
HEATING INPUT – MBH	68	
FILTER TYPE	2" PLEATED MERV-8	
MCA / MOCP	22.6 / 30	
MIN. EER	11.00	
MIN. AFUE %	82	
VOLTS – PHASE	208/230 - 1	
WALL SOUND CURB MODEL NO.	TCURBF2430A4	
OPERATING WEIGHT (LBS)	688	
DIMENSIONS (H"xW"xD")	81.63" × 38" × 24.25"	
DETAIL REFERENCE	5/M0-2.1	
REMARKS	1, 2, 3, 4	

### RKS

UNIT AND PROVIDE CLEARANCES PER MANUFACTURE RECOMMENDATIONS. COLOR WITH BUILDING FINISH AND RECEIVE APPROVAL FROM OWNER/ARCHITECT PRIOR TO ORDERING. INTENT THAT THE EXISTING WALL OPENINGS (WHERE REPLACEMENT OF UNITS IS INDICATED) ARE E WITHOUT ENLARGEMENT. IF ANY INCREASE IN THE EXISTING OPENING IS REQUIRED, THE CONTRACTOR T THE APPROVAL OF DSA/SEOR PRIOR TO PROCEEDING. ORY AND OPTION WEIGHTS ARE INCLUDED IN OPERATING WEIGHT.

### NG WALL MOUNTED A/C UNIT AND NEW WALL MOUNTED

RELOCATABLE NUMBER	101 TH	RU 116
UNIT SYMBOL	AC-	-R1
MANUFACTURER	BARD	BARD
CONDITION	EXISTING	NEW
MODEL	WAG30C	W30G4
TYPE	GAS/ELECTRIC	GAS/ELECTRIC
CFH INPUT	65	68
DIMENSIONS (H"xW"xD") - IN	84 x 38.25 x 18.75	81.63 x 38 x 24.2
UNIT WEIGHT – LBS	530	530
WALL SOUND CURB WEIGHT - LBS	N/A	158
TOTAL WEIGHT – LBS	530	688

HEAT PUMP SCHEDULE (WALL MOUNTED)				HEAT PUMP SCHEDULE (PACKAGED)			
UNIT	SYMBOL			HP-R2	HP-R3	UNIT SYMBOL	HP-R1
LOCA	TION			RELOCATABLE CLASSROOMS	RELOCATABLE CLASSROOMS	LOCATION	ROOF
SHEE	T REFERENCE			M1-1.1/M2-1.6	M1-1.1/M2-1.6	SERVICE	
MANU	IFACTURER			BARD	BARD	SHEET REFERENCE	
MODE	EL			T48S1-A04DM4XXE	T60S1-A05DM4XXE		
TYPE				HEAT PUMP/ WALL MOUNTED	HEAT PUMP/ WALL MOUNTED	MANUFACTURER	
SERV	ICE			SEE FLOOR PLANS	SEE FLOOR PLANS	MODEL	50V1-C24
BLOW	IER — CFM			1550	1650	TYPE	DOWN DISCHARGE
EXTE	RNAL S.P. – "WG			0.03	0.03	INDOOR FAN - CFM	781
OUTS	IDE AIR – CFM			450	500	UTSIDE AIR - CFM	_
BLOW	ER MOTOR – HP			0.75	0.75	EXTERNAL S.P. – "WG	0.75
	TOTAL CAPACITY – MBH			46.5	56.0	MOTOR HP / TYPE / SPEED	0.5 / DIRECT /
	SENSI. CAPACITY – MBH			36.0	40.3	EVAP. EAT - °F - DB	80.0
U	EAT - °F - DB			80.0	80.0	FVAP FAT — °F — WB	67.0
OLIN	LAI – °F – WB			67.0	67.0		
C C C	LAI – F – DB			58.5	57.4	CND. EAT - F - DB	
	LAI - F - WB			57.6	56.3	ARI COOLING CAPACITY - MBH	19.07
	AMBIENT AIR TEMP 'F			95.0	95.0	ARI COOLING CAPACITY SENSIBLE - MBH	15.75
	MIN. EER	T 1/14/		1.0		REFRIGERANT TYPE	R410A
	LIEATING OUTDUT	I — KW		4.0	5.0	ARI EER / SEER	- / 14.50
U	HEATING OUTPUT - MBH			43.0	70.0	COMPRESSOR INPUT - KW	2.45
EATIN	LAT - F - DB			83.9	87.2	INDOOR COIL EAT - °F - DB	65.0
T	AMBIENT AIR TEMP - °F			10.0	10.0	INDOOR COULLAT - °F - DR	92.2
	MIN COP - %			2.3	2 4		92.2
	SI7F W"xH"yl "			2.0 2 x 20 x 30	2 x 20 x 30	Q OUTDOOR AMBIENT TEMP. – °F – DB	47.0
TER	OUANTITY			1	1	HEATING INPUT – MBH	22.90
	TYPE			2" PLEATED MERV-11	2" PLEATED MERV-11	HIGH COP / LOW COP	- / -
VOLT	S – PHASE			208/230 - 1	208/230 - 1	HEATING POWER INPUT - KW	1.62
МСА	/ MOCP			57 / 60	71 / 80	COMPRESSOR NO. / RLA (EA)	1 / 13.5
OPER	RATING WEIGHT (LBS)			605	610	OUTDOOR FAN MOTOR NO. / FLA (EA)	1 / 0.6
DIME	NSIONS (H"xW"xD")			93 x 42.075 x 22.432	93 x 42.075 x 22.432	JUNDOOR FAN MOTOR NO. / FLA (EA)	1 / 3.8
DETA	IL REFERENCE			6/M0-2.1	6/M0-2.1		
REMA	RKS			1,2,3,4	1,2,3,4	Image: Combostion fan motor fla (Ea)	N/A
$\bigcirc$	REMARKS			I I		MCA / MOCP	21.3 / 30.0
1- 2-	PROVIDE WITH MANUFACTURE MATCH COLOR WITH BUILDIN	ER'S ECONO IG FINISH AI	MIZER PA	CKAGE. /e approval from owni	ER/ARCHITECT PRIOR	VOLTAGE / PHASE	208 / 1
3-	TO ORDERING. IT IS THE INTENT THAT THE	EXISTING W	ALL OPEN	IINGS (WHERE REPLACEM	ENT OF UNITS IS	FILTER TYPE	MERV-13
	INDICATED) ARE ADEQUATE N IS REQUIRED, THE CONTRAC PROCEEDING.	WITHOUT ENI Tor shall	LARGEMEN GET THE	T. IF ANY INCREASE IN T APPROVAL OF DSA/SEOR	THE EXISTING OPENING PRIOR TO	CONDENSER COIL HAIL GUARD (LOUVERED)	REQUIRED (1)
4-	ACCESSORY AND OPTION WE	LIGHIS ARE	INCLUDED	IN OPERATING WEIGHT.		FLUE DEFLECTOR	N/A
FXIS	TING WALL MOUNTED HEAT I	NUMP AND N	FW WALL	MOUNTED HEAT PUMP CO	OMPARISON SCHEDULE	ECONOMIZER MANUFACTURER / MODEL	N/A
		201 TH	RU 204	401 THRU 405		CURB MANUFACTURER / MODEL	EXISTING
RELC	CATABLE NUMBER	20 507 TH 601 TH	05 IRU 509 <u>RU 606</u>	407, 501 503 THRU 506	206 AND 207	SHIM CURB MANUFACTURER / MODEL / HEIGHT	MICROMETL / ADPT-0570-SD-W
	SYMBOL	HP.	-R2	HP-R2	HP-R3		<u> </u>
MANU	IFACTURER	BARD	BARD	MARVAIR BARD	MARVAIR BARD	DUERATING WEIGHT (LBS)	
CONE	DITION	EXISTING	NEW	EXISTING NEW	EXISTING NEW	DIMENSIONS (L"xW"xH")	48.2" × 32.6" × 47.
MODE	ĨL	WH421	T48S1	AVP42HPA T48S1	AVP60HPA T60S1	DETAIL REFERENCE	9/M0-2.1
TYPF		FLECTRIC				REMARKS	1,2,3,4,5,6,7,8

EXISTING WALL MOUNTED HEAT PUMP AND NEW WALL MOUNTED HEAT PUMP COMPARISON SCHEDULE						
RELOCATABLE NUMBER	201 THRU 204 205 507 THRU 509 601 THRU 606		401 THRU 405 407, 501 503 THRU 506		206 AND 207	
UNIT SYMBOL	HP-	-R2	HP-R2		HP-R3	
MANUFACTURER	BARD	BARD	MARVAIR	BARD	MARVAIR	BARD
CONDITION	EXISTING	NEW	EXISTING	NEW	EXISTING	NEW
MODEL	WH421	T48S1	AVP42HPA	T48S1	AVP60HPA	T60S1
ТҮРЕ	ELECTRIC	ELECTRIC	ELECTRIC	ELECTRIC	ELECTRIC	ELECTRIC
CFH INPUT	N/A	N/A	N/A	N/A	N/A	N/A
DIMENSIONS (H"xW"xD") – IN	84.875 x 42.075 x 22.432	93 x 42.075 x 22.432	86 x 45.125 x 22.7	93 x 42.075 x 22.432	86 x 45.125 x 22.7	93 x 42.075 x 22.432
UNIT WEIGHT – LBS	555	605	590	605	610	610
TOTAL WEIGHT – LBS	555	605	590	605	610	610

### 

1- UNIT COMPLETE WITH FACTORY INSTALLED LOUVERED HAIL GUARD AND LOW AMBIENT FREEZE STAT. 2- UNIT COMPLETE WITH MERV-13 FILTER. 3- PROVIDE EMS THERMOSTAT AND CO2 SENSOR.

4- PROVIDE SMOKE DETECTION MODULE TO SHUT-DOWN UNIT.

5- PROVIDE PERMANENT LABEL. 6- PROVIDE OSA HOOD WITH MANUAL ADJUSTMENT DAMPER - 25% OUTSIDE AIR AND FILTER RACK (NO

ALUMINUM FILTER). 7- OPERATING WEIGHT INCLUDES WEIGHT OF BASE UNIT, ACCESSORIES AND CURB ADAPTER.

8- PROVIDE FACTORY MOUNTED AND TESTED BIPOLAR IONIZATION SYSTEM PER UNIT SPECIFICATION REQUIREMENTS. MANUFACTURER SHALL PROVIDE A TRANSFORMER PACKAGE TO INTERNALLY POWER THE BIPOLAR IONIZATION.

### EXISTING AIR CONDITIONER AND NEW HEAT PUMP COMPARISON SCHEDULE

UNIT SYMBOL	HP	-R1
MANUFACTURER	CARRIER	CARRIE
CONDITION	EXISTING	NEW
MODEL	50SZ-024	50VT-C
DIMENSIONS (LxWxH) - IN	48.2 x 32.7 x 39	48.2 x 32.6 x
UNIT WEIGHT – LBS	343	311
CURB WEIGHT – LBS	EXISTING	EXISTIN
SHIM CURB WEIGHT – LBS	N/A	18
ECONOMIZER WEIGHT – LBS	N/A	N/A
TOTAL WEIGHT – LBS	343	329

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![](_page_13_Figure_0.jpeg)

P:\600-Westgroup Designs\600-030\_VESD\_17\_Sites\_HVAC\_Replacement\Drawings\Brentwood ES\Mechanical\M0-2.1.dwg Aug 30, 2023 - 10:05am iggy

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![](_page_14_Figure_0.jpeg)

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![](_page_15_Figure_0.jpeg)

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PROJECT NAME: VESD BRENTWOOD ELEMENTARY SCHOOL  1.0 SEQUENCES OF OPERATION  1.1 SEQUENCE OF OPERATION FOR VESD BRENTWOOD ELEMENTARY SCHOOL  1.1.1 VT GRADE MOUNTED UNIT DETAIL INDOOR FAN  DURING OCCUPIED PERIODS, THE FAN SHALL OPERATE GONTINUOUSLY. DURING UNOCCUPIED PERIODS, THE FAN SHALL OPERATE WHEN THE MODE OF OPERATOR EXCEEDS THE UNOCCUPIED HEATING OR COOLING SETPOINTS. THE FAN OPERATES AT 1 OF 2 SPEEDS DEPENDING ON THE MODE OF OPERATOR, THE FAN OPERATES AT LOW SPEED IF LOAD CONDITIONS INCREASE OR IF THERE IS A CALL FOR HEATING, THE FAN OPERATES AT HICH SFRED.  HEATING MODE WHEN SPACE TEMPERATURE IS BELOW THE OCCUPIED HEATING SETPOINT, UNIT SHALL OPERATE IN THE HEATING MODE UNIT SHALL STAGE AVAILABLE COOLING MODE WHEN SPACE TEMPERATURE IS BELOW THE OCCUPIED SPACE.  COOLING MODE WHEN SPACE TEMPERATURE IS ABOVE OCCUPIED COOLING SETPOINT, UNIT SHALL OPERATE IN THE HEATING MODE. UNIT SHALL ENABLE AVAILABLE COOLING STAGES TO SATISFY DEMAND IN THE OCCUPIED SPACE.  COOLING MODE WHEN SPACE TEMPERATURE IS ABOVE OCCUPIED COOLING SETPOINT, UNIT SHALL OPERATE IN THE COOLING MODE. UNIT SHALL ENABLE AVAILABLE COOLING STAGES TO SATISFY DEMAND IN THE OCCUPIED SPACE.  ECONOMIZER ECONOMIZER ECONOMIZER SHALL CLOSE WHEN FAN IS OFF OR DURING A LOSS OF POWER. UVING STAGES TO SATISFY DEMAND IN THE OCCUPIED SPACE.  ECONOMIZER ECONOMIZER SHALL CLOSE WHEN FAN IS OFF OR DURING A LOSS OF POWER. UVINT SHALL STAGE AND STORY DEMAND IN THE OCCUPIED SPACE.  ECONOMIZER SHALL CLOSE WHEN FAN IS OFF OR DURING A LOSS OF POWER. UVINT SHALL MONITOR SPACE CO2 WHEN THE SUPPLY FAN IS ENERGIZED. WHEN CO2 IS ASOUS SEPTOINT OF 1000 PPA CONOMIZER SHALL OPENTO ADJUSTABLE MANIWUM POSITION, WHEN OUTS DER TEMPERATURE IS BEDONG STAGES TO SATISFY DEMAND IN THE OCCUPIED SPACE.  CO2 CONTROL UVIT SHALL MONITOR SPACE CO2 WHEN THE SUPPLY FAN IS ENERGIZED. WHEN CO2 IS ASOUS SEPTOINT OF 1000 PPA FACE ODOLINGE SHALL MOUNT ME THE STAGE STAGES TO SATISFY DEMAND ON THE OCCUPIED SPACE.  CO2 CONTROL UVIT SHALL MONITOR SPACE CO2 WHEN THE SUPPLY FAN IS ENERGIZED. WHEN CO2 IS	<ul> <li>1.1.2 BYPASS DAMPER DETAIL</li> <li>WT BYPASS DAMPER</li> <li>WHILE THE INDOOR FAN RUNS, THE BYPASS SHALL MODULATE TO MAINTAIN DUCT PRESSURE AT A CONFIGURABLE SETPOINT. IF THE STATIC PRESSURE IS BELOW THE STATIC PRESSURE SETPOINT THE BYPASS DAMPER WILL MODULATE CONTOR FULL STATIC PRESSURE UNTIL THE STATIC PRESSURE IS AT SETPOINT.</li> <li>1.1.3 ZONE DAMPER DETAIL</li> <li>PRESSURE INDEPENDENT VICONE CONTROLLER</li> <li>PREVENDER INDEPENDENT VICONE CONTROLLER</li> <li>PREVENDER INDEPENDENT THE MODE'S CONFIGURABLE MINIMUM AND MAXIMUM AIRFLOW BASED ON THE COLENCE THE AMPERATURE CONTROL BY MODULATING THE ZONE THE MODE'S CONFIGURABLE MINIMUM AND MAXIMUM AIRFLOW AT THE AR SOURCE AND SUFFICIENT VENTILATION TO THE ZONE DURING OCCUPIED PERIODS.</li> <li>DEMAND CONTROLLED VENTLATION (UNITS WITH CO2 SENSORS INSTALLED)</li> <li>THE ZONE CONTROLLER MONITORS THE CO2 SENSOR AND OVERRIDE THE TEMPERATURE CONTROLLER NONTROL THE ZONE THE SANGR'S VALUE EXCEEDS THE CO2 SETPOINT THE CONTROLLER NORTROL TO RESPOND TO INCREASING CO2 LEVELS WHEN THE ZONE IS OCCUPIED, IF THE SENSOR'S VALUE EXCEEDS THE CO2 SETPOINT THE CONTROLLER AND THERE ARE SOURCE TO FORM A COORDINATED HVAC SYSTEM. THE SYSTEM S AR SOURCE CONTROLLER, AND BYPASS CONTROLLER ARE UNARED SOURCE TO FORM A COORDINATED HVAC SYSTEM. THE SYSTEM'S AR SOURCE CONTROLLER, ZONE CONTROLLERS, AND BYPASS CONTROLLER ARE UNRED SOURCE TO FORM A COORDINATED HVAC SYSTEM. THE SYSTEM'S AR SOURCE CONTROLLER, ZONE CONTROLLER, AND BYPASS CONTROLLER ARE SOURCE CONTROLLER, AND BYPASS CONTROLLER ARE ANARED BY ONE ZONE CONTROLLER CONFIGURED AS THE VYT MASTER. THE WYT MASTER THE VYT MASTER. THE YT MASTER ARE SOURCE CONTROLLER, SOURCE CONTROLLER, AND BYPASS CONTROLLER ARE DAL MARED BY ONE ZONE CONTROLLER CONFIGURE</li></ul>
MRT TO SCALE         MRE LEGEND         LINE STYLE WIRE TYPE         BOORD HART TYPE <th>NEW ROUTER TO DE INSTALLED EXISTING ROUTER IN 120VACP EXISTING ROUTER IN 108 TO BE REPLACED</th>	NEW ROUTER TO DE INSTALLED EXISTING ROUTER IN 120VACP EXISTING ROUTER IN 108 TO BE REPLACED
BACS RISER DIAGRAM (1 OF 3)	BE INSTALLED 120VACO REVERSION OF THE TO BE INSTALLED 120VACO REVERSION OF THE TO BE INSTALLED REVERSION OF THE DON FIELD CONDITIONS

9 NOT TO SCAL

STAGES TO SATISFY DEMAND IN THE OCCUPIED SPACE. COOLING STAGES TO SATISFY DEMAND IN THE OCCUPIED SPACE. MODULATE COOLING MODE CO2 CONTROL UNIT SHALL MONITOR SPACE CO2 WHEN THE SUPPLY FAN IS ENERGIZED. WHEN SPACE TEMPERATURE IS ABOVE OCCUPIED COOLING SETPOINT, UNIT SHALL OPERATE IN THE COOLING MODE. UNIT SHALL ENABLE AVAILABLE COOLING STAGES TO SATISFY DEMAND IN THE OCCUPIED SPACE. THE BACS. ECONOMIZER INDOOR FAN ECONOMIZER SHALL CLOSE WHEN FAN IS OFF OR DURING A LOSS OF POWER. DURING OCCUPIED HOURS WHEN FAN IS ENERGIZED, THE ECONOMIZER SHALL OPEN TO ADJUSTABLE MINIMUM POSITION. WHEN OUTSIDE AIR TEMPERATURE IS BELOW 75 AND OCCUPIED SPACE REQUIRES COOLING, ECONOMIZER SHALL OPEN. IF ECONOMIZER AIR IS NOT SUFFICIENT TO MEET THE DEMAND IN THE OCCUPIED SPACE, UNIT SHALL ENABLE AVAILABLE MECHANICAL COOLING STAGES TO SATISFY DEMAND IN THE OCCUPIED SPACE. CO2 CONTROL UNIT SHALL MONITOR SPACE CO2 WHEN THE SUPPLY FAN IS ENERGIZED. WHEN CO2 IS ABOVE SETPOINT OF 1000 PPM, ECONOMIZER SHALL MODULATE OPEN TOWARD AN ADJUSTABLE MAXIMUM CO2 POSITION. AS THE CO2 LEVEL IN COOLING MODE THE SPACE INCREASES ABOVE THE SETPOINT, THE MINIMUM POSITIONS OF THE DAMPERS WILL BE INCREASED PROPORTIONALLY, UNTIL THE MAXIMUM VENTILATION SETTING IS REACHED. AS THE SPACE CO2 LEVEL DECREASES BECAUSE OF THE INCREASE IN FRESH AIR, THE OUTDOOR-DAMPER WILL FOLLOW THE HIGHER DEMAND CONDITION FROM THE DCV MODE OR FROM THE FREE-COOLING MODE. CO2 CONTROL 1.1.5 HEAT PUMP ROOFTOP UNIT DETAIL INDOOR FAN THE BACS. DURING OCCUPIED PERIODS, FAN SHALL OPERATE CONTINUOUSLY. DURING UNOCCUPIED PERIODS, FAN SHALL OPERATE WHEN THE SPACE TEMPERATURE EXCEEDS THE UNOCCUPIED HEATING OR COOLING SETPOINTS. THE FAN OPERATES AT ONE SPEED ONLY AND PROVIDES ON/OFF OPERATION. HEATING MODE WHEN SPACE TEMPERATURE IS BELOW THE OCCUPIED HEATING SETPOINT, UNIT SHALL OPERATE IN THE HEATING MODE. UNIT SHALL STAGE AVAILABLE HEAT STAGES TO SATISFY DEMAND IN THE OCCUPIED SPACE.

SHALL OPERATE IN THE HEATING MODE. UNIT SHALL STAGE AVAILABLE HEAT

WHEN CO2 IS ABOVE SETPOINT OF 1000 PPM, AN ALARM WILL DISPLAY ON 1.1.6 WALL MOUNTED GAS ELECTRIC UNIT/HEAT PUMP DETAIL DURING OCCUPIED PERIODS, FAN SHALL OPERATE CONTINUOUSLY. DURING UNOCCUPIED PERIODS, FAN SHALL OPERATE WHEN THE SPACE TEMPERATURE EXCEEDS THE UNOCCUPIED HEATING OR COOLING SETPOINTS. THE FAN OPERATES AT ONE SPEED ONLY AND PROVIDES ON/OFF OPERATION. HEATING MODE WHEN SPACE TEMPERATURE IS BELOW THE OCCUPIED HEATING SETPOINT, UNIT SHALL OPERATE IN THE HEATING MODE. UNIT SHALL STAGE AVAILABLE HEAT STAGES TO SATISFY DEMAND IN THE OCCUPIED SPACE.

SHALL OPERATE IN THE COOLING MODE. UNIT SHALL ENABLE AVAILABLE

COOLING MODE

WHEN SPACE TEMPERATURE IS ABOVE OCCUPIED COOLING SETPOINT, UNIT SHALL OPERATE IN THE COOLING MODE. UNIT SHALL ENABLE AVAILABLE COOLING STAGES TO SATISFY DEMAND IN THE OCCUPIED SPACE.

UNIT SHALL MONITOR SPACE CO2 WHEN THE SUPPLY FAN IS ENERGIZED. WHEN CO2 IS ABOVE SETPOINT OF 1000 PPM, AN ALARM WILL DISPLAY ON

SEQUENCES OF OPERATION

### BACNET MSTP NETWORK GUIDELINES: A MSTP NETWORK SHALL NOT EXCEED 10,000 FEET OVERALL LENGTH, CONSISTING OF UP TO FIVE 2000 FOOT SEGMENTS WITH NO GREATER THAN 30 DEVICES PER SEGMENT. EACH 2000 FOOT SEGMENT SHALL BE JOINED TO WIRE LEGEND THE NEXT SEGMENT USING A BACNET REPEATER WITH APPROPRIATE TERMINATION. NO LINE STYLE WIRE TYPE PART NUMBER DESCRIPTION MORE THAN 4 REPEATERS CAN BE \_\_\_\_ LOCAL AREA NETWORK PROVIDED AND INSTALLED BY OTHERS USED ON A SINGLE BACNET MSTP NETWORK. EACH BACNET MS/TP NETWORK WIRING 0042002-S 24 AWG 2 COND SHIELDED, PLENUM, ORG SEGMENT WILL HAVE TERMINATION ------ BURIAL BACNET MS/TP NETWORK WIRING 042007DB 24 AWG 2 COND SHIELDED, NON-PLENUM, BLCK AT THE BEGINNING AND END OF THE SEGMENT. AC R1 AC R1 AC R1 AC R1 AC R1 AC R1 WALL JOUN PORTABLES 101 THRU 104 AC R1 AC R1 AC R1 AC R1 AC R1 R1 PORTABLES 105 THRU 108 AC R1 AC R1 AC R1 AC R1 AC R1 AC R1 PORTABLES 109 THRU 112 AC R1 AC R1 AC R1 AC R1 AC R1 AC R1 PORTABLES 113 THRU 116 HP R2 HP R2 PORTABLES 201 THRU 204

SURE IS AT IRF DUCT LOW OF OW XIMUM

HEATING MODE

STALLED) VERRIDE THE WHEN THE SETPOINT RATE, AND CONTINUES

EN THE ZONE C SYSTEM. ID BYPASS E MANAGED

e vvt ZONE IRE, RELATIVE ATA (ALL IF

ISLY. DURING ETPOINTS. - OF LOW LOAD ONS TES AT HIGH

![](_page_15_Picture_16.jpeg)

![](_page_16_Figure_0.jpeg)

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![](_page_17_Figure_0.jpeg)

P:\600-Westgroup Designs\600-030\_VESD\_17\_Sites\_HVAC\_Replacement\Drawings\Brentwood ES\Mechanical\M1-1.1.dwg Aug 30, 2023 - 10:07am iggy

![](_page_17_Picture_1.jpeg)

**1**" = 20'-0"

![](_page_17_Picture_4.jpeg)

![](_page_18_Figure_0.jpeg)

![](_page_18_Figure_2.jpeg)

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![](_page_19_Figure_0.jpeg)

![](_page_20_Figure_0.jpeg)

P:\600-Westgroup Designs\600-030\_VESD\_17\_Sites\_HVAC\_Replacement\Drawings\Brentwood ES\Mechanical\MD2-1.3.dwg Aug 30, 2023 - 10:10am iggy

![](_page_21_Figure_0.jpeg)

4.—	EXISTING	GR	A
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IDENTIFICATION STAME DIV. OF THE STATE ARCHITE APP: 04-122079 INC: **REVIEWED FOR** SS 🗹 FLS 🗹 ACS 🗌 DATE: 09/20/2023 ARCHITECTURE I PLANNING 19520 Jamboree Road | Suite 100 Irvine | California | 92612 949.250.0880 | FAX 949.250.0882 www.westgroupdesigns.com 1920 E Warner Ave., Suite 3-H Santa Ana, CA 92705 Telephone (714) 884-3834 Fax (714) 884-3834 PEI #600.030 BRENTWOOD ELEMENTARY SCHOOL VICTOR ELEMENTARY SCHOOL DISTRICT 13962 HOOK BLVD. VICTORVILLE, CA 92394 SUED FOR REVISIONS: REGISTRATION/SIGNATURE: HEET TITLE: MECHANICAL **DEMOLITION FLOOR PLAN - BUILDING 500** HEET NUMBER: WD PROJ. # DRAWN BY: CHECKED DATE 22825 07/18/23 © WESTGROUP DESIGNS, INC.

![](_page_22_Figure_0.jpeg)

### MECHANICAL DEMOLITION ROOF PLAN - REST

\_\_\_\_\_ P:\600-Westgroup Designs\600-030\_VESD\_17\_Sites\_HVAC\_Replacement\Drawings\Brentwood ES\Mechanical\MD2-1.5.dwg Aug 30, 2023 - 10:10am iggy

ROOM BUILDING	2 1/4" = 1'-0"	MECHANICAL DEMOLITION FLOOR F
		2 3 4

	DEMOLITION NOTES
	1 REMOVE EXISTING ROOFTOP HEAT PUMP UNIT. DISCONNECT ALL UTILITIES FROM THE UNIT. DISCONNECT UNIT FROM EXISTING SUPPLY AND RETURN DUCTWORK AT ROOF LINE. MODIFY DUCTWORK FOR RECONNECTION. EXISTING ROOF CURB TO REMAIN, PROTECT IN PLACE DURING CONSTRUCTION. PREPARE AREA OF REMOVAL TO RECEIVE NEW ROOFTOP HEAT PUMP UNIT. PERFORM DUCTWORK CLEANING PROCESS FIRST, THEN INSTALL NEW HEAT PUMP UNIT. SEE RENOVATION DRAWINGS FOR ADDITIONAL INFORMATION.
	<ul> <li>2 EXISTING DUCTWORK AND ASSOCIATED ACCESSORIES TO REMAIN. PROTECT IN PLACE DURING CONSTRUCTION.</li> <li>3 FIELD MEASURE THE EXISTING AIR QUANTITY PER REQUIREMENTS OF AIR BALANCE NOTE ON THIS SHEET. EXISTING CEILING/SIDEWALL GRILLE/DIFFUSER TO REMAIN. PROTECT IN PLACE DURING CONSTRUCTION. CLEAN ALL</li> </ul>
	<ul> <li>GRILLES/DIFFUSERS AND REMOVE ALL DIRT, STAINS AND DEBRIS.</li> <li>4 REMOVE EXISTING THERMOSTAT. FIELD VERIFY EXACT LOCATION PRIOR TO START OF WORK. PREPARE THE AREA OF REMOVAL TO RECEIVE NEW THERMOSTAT. SEE RENOVATION DRAWINGS FOR ADDITIONAL INFORMATION.</li> </ul>
	5.— P.O.R.— DISCONNECT EXISTING CONDENSATE DRAIN PIPING FROM HEAT PUMP UNIT AND REMOVE PIPING TO POINT OF CONNECTION TO THE EXISTING BOOT ASSEMBLY ABV. ROOF LINE FOR RECONNECTION TO NEW HEAT PUMP UNIT. (PROTECT EXISTING CD PIPING BOOT ASSEMBLY DURING CONSTRUCTION).
	AIR BALANCE NOTE
	1. EXISTING AIRFLOW RATES SHOWN ARE FOR REFERENCE ONLY. PERFORM PRE-DEMOLITION AIR BALANCE TO FIELD MEASURE THE EXISTING AIR QUANTITY FOR EACH SUPPLY AND RETURN AIR OUTLET AND INLET PRIOR TO COMMENCEMENT OF ANY DEMOLITION WORK. PREPARE A TABULATED REPORT AND ANNOTATE THE DEMOLITION FLOOR PLANS WITH THE FIELD MEASURED AIR QUANTITY VALUES. SUBMIT DRAWINGS AND REPORT TO ENGINEER/ARCHITECT FOR REVIEW PRIOR TO COMMENCEMENT OF DEMOLITION WORK.
	GENERAL DEMOLITION NOTES
	G1. THIS DRAWING HAS BEEN GENERATED BASED ON EXISTING RECORD DRAWINGS AND IS SHOWN FOR REFERENCE ONLY. IT IS NOT NECESSARILY INDICATING THE EXACT LAYOUT, SIZE, LOCATION, AND DIMENSIONS OF THE EXISTING SYSTEM.
	AND NOTIFY AOR/MEOR OF ANY DISCREPANCIES. DISCREPANCIES NOT NOTED PRIOR TO BID SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE RESPONSIBLE FOR PROVIDING ALL REQUIRED WORK NECESSARY TO ACCOMMODATE THE INSTALLATION OF ALL NEW MECHANICAL WORK SHOWN.
	KEY PLAN
	509508507506505504503502501 407 406
	405 404 403
	402 401 300
	207 206 205 <b>400</b> 500
	204 203 202 201 RR 100 116 115 114 113 112 111 10 109
NG 1/4" = 1'-0"	601602603604605 606

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![](_page_23_Figure_0.jpeg)

![](_page_23_Figure_1.jpeg)

### □ DEMOLITION NOTES

- 1.- REMOVE EXISTING WALL MOUNTED HEAT PUMP UNIT. DISCONNECT ALL UTILITIES AND DUCTWORK. MODIFY EXISTING DUCTWORK FOR RECONNECTION. REMOVE EXISTING CONDENSATE DRAIN PIPING IN ITS ENTIRETY. PERFORM DUCTWORK CLEANING PROCESS FIRST, THEN INSTALL NEW WALL MOUNTED HEAT PUMP UNIT. PREPARE AREA OF REMOVAL TO RECEIVE NEW WALL MOUNTED HEAT PUMP. SEE RENOVATION DRAWINGS FOR ADDITIONAL INFORMATION.
- 2.- REMOVE EXISTING WALL MOUNTED GAS-ELECTRIC AIR CONDITIONING UNIT. DISCONNECT ALL UTILITIES AND DUCTWORK. MODIFY EXISTING DUCTWORK FOR RECONNECTION. MODIFY GAS PIPING FOR RECONNECTION. REMOVE EXISTING CONDENSATE DRAIN PIPING IN ITS ENTIRETY. PERFORM DUCTWORK CLEANING PROCESS FIRST, THEN INSTALL NEW WALL MOUNTED GAS-ELECTRIC AIR CONDITIONING UNIT. PREPARE AREA OF REMOVAL TO RECEIVE NEW SOUND ISOLATION CURB AND WALL MOUNTED GAS-ELECTRIC AIR CONDITIONING UNIT. SEE RENOVATION DRAWINGS FOR ADDITIONAL INFORMATION.
- 3.- EXISTING DUCTWORK AND ASSOCIATED ACCESSORIES TO REMAIN. PROTECT IN PLACE DURING CONSTRUCTION.
- 4.– FIELD MEASURE THE EXISTING AIR QUANTITY PER REQUIREMENTS OF AIR BALANCE NOTE ON THIS SHEET. EXISTING CEILING/SIDEWALL GRILLE/DIFFUSER TO REMAIN. PROTECT IN PLACE DURING CONSTRUCTION. CLEAN ALL GRILLES/DIFFUSERS AND REMOVE ALL DIRT, STAINS AND DEBRIS.
- 5.- REMOVE EXISTING THERMOSTAT AND ASSOCIATED ACCESSORIES. FIELD VERIFY EXACT LOCATION PRIOR TO START OF WORK. PREPARE THE AREA OF REMOVAL TO RECEIVE NEW THERMOSTAT. SEE RENOVATION DRAWINGS FOR ADDITIONAL INFORMATION.
- 6.- REMOVE EXISTING PROTECTIVE CAGE WITH EXTREME CAUTION FOR RE-INSTALLATION AFTER REPLACEMENT UNIT IS INSTALLED. RE-PAINT PROTECTIVE CAGE TO MATCH EXISTING RE-LOCATABLE CLASSROOM WALL FINISH. TYPICAL FOR RE-LOCATABLE CLASSROOMS 205, 206 AND 207.

### **AIR BALANCE NOTE**

EXISTING AIRFLOW RATES SHOWN ARE FOR REFERENCE ONLY. PERFORM PRE-DEMOLITION AIR BALANCE TO FIELD MEASURE THE EXISTING AIR QUANTITY FOR EACH SUPPLY AND RETURN AIR OUTLET AND INLET PRIOR TO COMMENCEMENT OF ANY DEMOLITION WORK. PREPARE A TABULATED REPORT AND ANNOTATE THE DEMOLITION FLOOR PLANS WITH THE FIELD MEASURED AIR QUANTITY VALUES. SUBMIT DRAWINGS AND REPORT TO ENGINEER/ARCHITECT FOR REVIEW PRIOR TO COMMENCEMENT OF DEMOLITION WORK.

### **GENERAL DEMOLITION NOTES**

- G1. THIS DRAWING HAS BEEN GENERATED BASED ON EXISTING RECORD DRAWINGS AND IS SHOWN FOR REFERENCE ONLY. IT IS NOT NECESSARILY INDICATING THE EXACT LAYOUT, SIZE, LOCATION, AND DIMENSIONS OF THE EXISTING SYSTEM.
- G2. CONTRACTOR TO FIELD-VERIFY ALL EXISTING MECHANICAL COMPONENTS PRIOR TO BID AND NOTIFY AOR/MEOR OF ANY DISCREPANCIES. DISCREPANCIES NOT NOTED PRIOR TO BID SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE RESPONSIBLE FOR PROVIDING ALL REQUIRED WORK NECESSARY TO ACCOMMODATE THE INSTALLATION OF ALL NEW MECHANICAL WORK SHOWN.

![](_page_23_Figure_15.jpeg)

1/4" = 1'-0"

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![](_page_24_Figure_0.jpeg)

### 

### **PLAN NOTES**

- 1.- GRADE MOUNTED PACKAGED AIR CONDITIONER UNIT ON NEW CONCRETE PAD. SEE SCHEDULE ON SHEET MO-1.1 AND DETAILS 4 & 5/MO-2.2 FOR ADDITIONAL INFORMATION.
- 2.- 1" GAS COMPLETE WITH A LISTED YELLOW FLEXIBLE CONNECTOR, SHUT-OFF COCK, UNION AND 6" DIRT LEG. SUPPORT PIPING ABV. GRADE WITH CHANNEL STRUT AND PIPE CLAMP (6'-0" O.C.). PAINT ALL EXPOSED PIPING WITH A RUST INHIBITOR. SEE DETAIL 6/M0-2.2 FOR ADDITIONAL INFORMATION.
- 3.- CLEAN ALL EXISTING AIR DISTRIBUTION SYSTEM INCLUDING DUCTWORK, GRILLES, DIFFUSERS AND ASSOCIATED ACCESSORIES IN THEIR ENTIRETY IN EACH SPACE PER REQUIREMENTS OF SPECIFICATION SECTION 23 01 30.
- 4.- PERFORM A TEST AND BALANCE OF EACH SPACE. BALANCE EACH DIFFUSER/GRILLE TO THE SAME CFM AS MEASURED PRIOR TO DEMOLITION WORK. SEE AIR BALANCE NOTE ON DEMOLITION FLOOR PLAN. SUBMIT TEST AND BALANCE REPORT INCLUDING COMPARISON WITH THE PRE-DEMOLITION VALUES.
- 5.- DIGITAL THERMOSTAT WITH CO2 SENSOR WITH DIGITAL DISPLAY, 2-HOUR OVERRIDE BUTTON AND CO2 ADJUSTMENT BUTTON. FOR MOUNTING HEIGHT SEE SHEET MO-1.0. COORDINATE LOCATION OF THERMOSTAT WITH ROOM FURNITURE AND ARCHITECT PRIOR TO INSTALLATION.
- 6.- GRADE MOUNTED DUCTWORK. SEE DETAIL 8/MO-2.2 FOR ADDITIONAL INFORMATION. 7.- INSTALL POWER EXHAUST MODULE ON RETURN AIR DUCTWORK PER MANUFACTURER'S RECOMMENDATION AND GUIDELINES.
- 8.- P.O.C.- 1-1/2" GAS (SCH. 40 BLACK STEEL) TO EXISTING PIPING ABV. GRADE DOWNSTREAM OF EXISTING GAS PRESSURE RÉGULATOR. EXTEND SERVICE AS INDICATED. FIELD VERIFY EXACT LOCATION PRIOR TO START OF WORK. SUPPORT PIPING ABV. GRADE WITH CHANNEL STRUT AND PIPE CLAMP (6'-0" O.C.). PAINT ALL EXPOSED PIPING WITH A RUST INHIBITOR.
- 9.- 3/4" CD (COPPER TYPE 'M') COMPLETE WITH TRAP AND VENT. EXTEND CD ABV. GRADE AS INDICATED. SUPPORT PIPING ABV. GRADE WITH CHANNEL STRUT AND PIPE CLAMP  $(6'-0" \ O.C.)$ . DISCHARGE 3/4" CD INTO EXISTING FLOOR RECEPTOR WITH LEGAL AIR-GAP. FIELD VERIFY EXACT LOCATION PRIOR TO START OF WORK. SEE DETAIL 3/M0-2.2 FOR ADDITIONAL INFORMATION.
- 10.- EXISTING ELECTRICAL EQUIPMENT TO REMAIN. PROTECT IN PLACE DURING CONSTRUCTION.
- 11.- SEE SHEET M2-1.4 FOR SCOPE OF WORK OF NEW A/C UNIT (AC-M1) SERVING BUILDING 500 (MULTI-PURPOSE). SHOWN ON THIS SHEET FOR REFERENCE ONLY.
- 12.- GRADE MOUNTED DUCT SUPPORT (TYP.), SET AT 6'-0" O.C. MAX. SEE DETAIL 8/MO-2.2 FOR ADDITIONAL INFORMATION.

### **KEY PLAN**

![](_page_24_Figure_16.jpeg)

407

NORTH

![](_page_24_Picture_17.jpeg)

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITEC APP: 04-122079 INC: REVIEWED FOR SS 🗹 FLS 🗹 ACS 🗌 DATE: 09/20/2023 = 5 ARCHITECTURE I PLANNING I INTERIOR DESIGN 19520 Jamboree Road | Suite 100 Irvine I California I 92612 949.250.0880 | FAX 949.250.0882 www.westgroupdesigns.com 1920 E Warner Ave., Suite 3-H Santa Ana, CA 92705 Telephone (714) 884-3834 Fax (714) 884–3834 PEI #600.030 BRENTWOOD ELEMENTARY SCHOOL VICTOR ELEMENTARY SCHOOL DISTRICT 13962 HOOK BLVD. VICTORVILLE, CA 92394 REVISIONS EGISTRATION/SIGNATURE: HEET TITLE **MECHANICAL RENOVATION FLOOR** PLAN - BUILDING 100 HEET NUMBER M2-1.1 WD PROJ. # DRAWN BY: CHECKED DATE 07/18/23 22825 © WESTGROUP DESIGNS, INC.

![](_page_25_Figure_0.jpeg)

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITEC APP: 04-122079 INC: REVIEWED FOR SS 🗹 FLS 🗹 ACS 🗌 DATE: 09/20/2023 LV I  $\bigcirc$ ARCHITECTURE I PLANNING I INTERIOR DESIGN 19520 Jamboree Road | Suite 100 Irvine I California I 92612 949.250.0880 | FAX 949.250.0882 www.westgroupdesigns.com 1920 E Warner Ave., Suite 3-H Santa Ana, CA 92705 Telephone (714) 884-3834 Fax (714) 884–3834 PEI #600.030 BRENTWOOD ELEMENTARY SCHOOL VICTOR ELEMENTARY SCHOOL DISTRICT 13962 HOOK BLVD. VICTORVILLE, CA 92394 REVISIONS REGISTRATION/SIGNATURE: HEET TITLE MECHANICAL **RENOVATION FLOOR PLAN - BUILDING 200** HEET NUMBER M2-1.2 WD PROJ. # DRAWN BY: CHECKED DATE 07/18/23 22825 © WESTGROUP DESIGNS, INC.

![](_page_26_Figure_0.jpeg)

P:\600-Westgroup Designs\600-030\_VESD\_17\_Sites\_HVAC\_Replacement\Drawings\Brentwood ES\Mechanical\M2-1.3.dwg Aug 30, 2023 - 10:08am iggy

![](_page_26_Figure_2.jpeg)

![](_page_27_Figure_0.jpeg)

IDENTIFICATION STAME DIV. OF THE STATE ARCHITE APP: 04-122079 INC: **REVIEWED FOR** SS 🗹 FLS 🗹 ACS 🗌 DATE: 09/20/2023 ARCHITECTURE | PLANNING 19520 Jamboree Road | Suite 100 Irvine | California | 92612 949.250.0880 | FAX 949.250.0882 www.westgroupdesigns.com 1920 E Warner Ave., Suite 3-H Santa Ana, CA 92705 Telephone (714) 884-3834 Fax (714) 884-3834 PEI #600.030 BRENTWOOD ELEMENTARY SCHOOL VICTOR ELEMENTARY SCHOOL DISTRICT 13962 HOOK BLVD. VICTORVILLE, CA 92394 SUED FOR REVISIONS REGISTRATION/SIGNATURE: HEET TITLE: MECHANICAL **RENOVATION FLOOR** PLAN - BUILDING 500 HEET NUMBER IVIZ-1 WD PROJ. # DRAWN BY: CHECKED DATE 22825 07/18/23 © WESTGROUP DESIGNS, INC.

![](_page_28_Picture_0.jpeg)

### MECHANICAL RENOVATION ROOF PLAN - RESTROOM BUILDING

P:\600-Westgroup Designs\600-030\_VESD\_17\_Sites\_HVAC\_Replacement\Drawings\Brentwood ES\Mechanical\M2-1.5.dwg Aug 30, 2023 - 10:08am iggy

![](_page_28_Picture_3.jpeg)

	<ol> <li>ROOFTOP HEAT PUMP UNIT. SEE SCHEDULE ON SHEET M0-1.2 AND DETAIL 9/M0-2.1 FOR ADDITIONAL INFORMATION.</li> <li>CLEAN ALL EXISTING AIR DISTRIBUTION SYSTEM INCLUDING DUCTWORK, GRILLES, DIFFUSERS AND ASSOCIATED ACCESSORIES IN THEIR ENTIRETY IN EACH SPACE PER REQUIREMENTS OF SPECIFICATION SECTION 23 01 30.</li> <li>DIGITAL THERMOSTAT WITH CO2 SENSOR WITH DIGITAL DISPLAY, 2-HOUR OVERRIDE BUTTON AND CO2 ADJUSTMENT BUTTON. FOR MOUNTING HEIGHT SEE SHEET M0-1.0. COORDINATE LOCATION OF THERMOSTAT WITH ROOM FURNITURE AND ARCHITECT PRIOR TO INSTALLATION.</li> <li>P.O.C 3/4" CD (COPPER TYPE 'M') COMPLETE WITH TRAP AND VENT TO EXISTING PIPING ON ROOF PER DETAIL 2/M0-2.1. FIELD VERIFY EXACT LOCATION AND SIZE PRIOR TO START OF WORK. SEE DETAIL 2/M0-2.1 FOR ADDITIONAL INFORMATION.</li> <li>PERFORM A TEST AND BALANCE OF EACH SPACE. BALANCE EACH DIFFUSER/GRILLE TO THE SAME CFM AS MEASURED PRIOR TO DEMOLITION WORK. SEE AIR BALANCE NOTE ON DEMOLITION FLOOR PLAN. SUBMIT TEST AND BALANCE REPORT INCLUDING COMPARISON WITH THE PRE-DEMOLITION VALUES.</li> </ol>
	KEY PLAN
	$ \begin{array}{c}                                     $
NORTH M BUILDING	101     102     103     105     106     107     108     200     NORTH       601     602     603     606     606

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT APP: 04-122079 INC: REVIEWED FOR SS 🗹 FLS 🗹 ACS 🗌 DATE: 09/20/2023  $\square \bigcirc \square$  $(\mathbf{5}$  $\square$  $\sim$ ARCHITECTURE | PLANNING | INTERIOR DESIGN 19520 Jamboree Road | Suite 100 Irvine I California I 92612 949.250.0880 | FAX 949.250.0882 www.westgroupdesigns.com ENG 1920 E Warner Ave., Suite 3-H Santa Ana, CA 92705 Telephone (714) 884-3834 Fax (714) 884–3834 PEI #600.030 BRENTWOOD ELEMENTARY SCHOOL VICTOR ELEMENTARY SCHOOL DISTRICT 13962 HOOK BLVD. VICTORVILLE, CA 92394 SSUED FOR: REVISIONS: **REGISTRATION/SIGNATURE:** SHEET TITLE: MECHANICAL RENO. FLOOR PLAN -**RESTROOM BLDG.** SHEET NUMBER: M2-1.5 WD PROJ. # DRAWN BY: CHECKED DATE 07/18/23 22825 © WESTGROUP DESIGNS, INC.

![](_page_29_Figure_0.jpeg)

![](_page_29_Picture_1.jpeg)

![](_page_30_Picture_0.jpeg)

# VICTOR ELEMENTARY SCHOOL DISTRICT BRENTWOOD SCHOOL OF ENVIRONMENTAL STUDIES - HVAC UPGRADE

NOTES		SHEET INDEX
	DWG. NO.	DESCRIPTION
	E000	
	E001	ELECTRICAL COVER SHEET
ATERIALS SUPPLIED FOR EXECUTING AND COMPLETING THIS VISIONS SPECIFIED IN THE CONTRACT DOCUMENTS AND WITH	F0-1 1	SITE PLAN - EXISTING CONDITION
D ORDINANCES GOVERNING WORK INCLUDING, BUT NOT THE FOLLOWING:		
AS OF January 1, 2023 ), Part 1, Title 24 CCR	E5-1.1	ENLARGED PLAN BUILDING 100
2, Title 24 CCR t 3, Title 24 CCR Part 4, Title 24 CCR	E5-1.2	ENLARGED ROOF PLAN BUILDING 200
rt 5, Title 24 CCR 5, Title 24 CCR itle 24 CCR		
BC), Part 10, Title 24 CCR Code (CALGreen), Part 11, Title 24 CCR	E5-1.3	ENLARGED ROOF PLAN BUILDING 300
rshal Regulations	E5-1.4A	MECH DEMO PLAN BUILDING 500
DS, INCLUDING CALIFORNIA AMENDMENTS TO THE NFPA	E5-1.4B	MECH IMPROVEMENT PLAN BUILDING 500
R 35 AND CFC CHAPTER 80.		
	E5-1.5	ENLARGED ROOF PLAN - RESTROOM BUILDING
	E5-1.6	TYPICAL RELOCATABLE CLASSROOM PLAN
RUCTION GENERAL NOTES		
. IS REQUIRED; ALL ADJACENT SURFACES SHALL BE FINISHED TO ACHIEVE A		
ARMC MUST MAINTAIN IT'S REGULAR SERVICE DURING THE TIME WORK IS IN WITH THE COUNTY OFFICE SHALL BE ARRANGED BY THE CONTRACTOR TO		
SERVICES.		
RIS AND LEAVE THE SITE IN A CLEAN AND NEAT CONDITION. PROVIDE MOISTURE FOR THE PROTECTION OF THE WORKMEN, STAFF, VISITORS AND REQUIRED BY ALL DEPTIMENT CODES AND RECULATIONS		
IT DAMAGE TO EVIDTING FOURDMENT, OTDUCTURED AND GEDVICED, DAMAGE AD		
EPAIRED OR REPLACED AT NO ADDITIONAL COST TO THE OWNER. VERIFY THE INT WITH THE OWNER PRIOR TO THE INSTALLATION OF THAT EQUIPMENT OR THE		
CLUDED FOR GENERAL INFORMATION ONLY AND ARE NOT INTENDED TO		PROJECT DESCRIPTION
IT AT THE SITE. THE CONTRACTOR IS RESPONSIBLE FOR PREPARING THE SITE IND DETAILED IN THE CONTRACT.	н	VAC REPLACEMENT
OR PROVIDING COMPLETE AND LEGIBLE AS-BUILT DRAWINGS DOCUMENTS TO THE PROJECT. AS-BUILT DRAWINGS ARE THE FINAL SET OF DRAWINGS ONSTRUCTION PROJECT. THEY INCLUDE ALL THE CHANGES THAT HAVE BEEN		
ON DRAWINGS INCLUSIVE OF NOTES, MODIFICATIONS, REVISIONS AND ANY MODIFIED OR OTHERWISE CHANGED. AS-BUILD DRAWINGS SHOULD NOT		PROJECT TEAM
T BUT SHOULD DEFICT THE ACTUAL AS-BUILT CONDITIONS OF THE COMPLETED		
		BRENTWOOD SCHOOL OF ENVIRONMENTAL STUDIES
		13962 HOOK BLVD.
		VICTORVILLE, CALIFORNIA 92395
		ELECTRICAL ENGINEER
	-	AG DESIGN, INC
		2100 W ORANGEWOOD AVE, SUITE 111
TO HVAC UNIT POWER		ORANGE, CALIFORNIA 92868 PHONE   714.769.9900
REFER TO ROOF PLANS FOR CONDUIT AND CONDUCTOR		
K SIZED		
IG. IN BOX		
HOMERUN TO POWER PANEL.		
REFER TO ROOF PLANS FOR PANEL DESIGNATION AND CIRCUITS		
AUST CONNECTION DETAIL		
	<u> </u>	

![](_page_30_Picture_6.jpeg)

	GENERAL NOTES	ABBREVIATIO	NS		
1.	THE ELECTRICAL CONTRACTOR (EC) SHALL INCLUDE AND PROVIDE IN BID ALL LABOR AND MATERIALS NECESSARY FOR A COMPLETE AND OPERATIONAL INSTALLATION OF ALL ELECTRICAL SYSTEMS.	4S/DP 4" SQUARE BY ADA AMERICAN WIT	2 1/8" DEEP BOX I'H DISABILITIES ACT	LTG, LTS LPS	LIGHTING LOW PRESSURE SODIU
2.	EC SHALL COORDINATE AND OBTAIN ALL APPROVALS, PERMITS, AND DOCUMENTS FROM REGULATORY AGENCIES AND UTILITY COMPANIES.	A.F.F. ABOVE FINISH A.F.G. ABOVE FINISH AWG AMERICAN WIF	GRADE RE GAUGE	MDF MOCP	MAXIMUM MAIN DISTRIBUTION FF MAXIMUM OVERCURRE
3.	ALL CONDUIT RACEWAY SYSTEMS ARE TO BE INSTALLED AS FOLLOWS: a. RIGID GALVANIZED STEEL IS TO BE INSTALLED IN ALL AREAS WHICH ARE EXPOSED TO WEATHER AND/OR	AMP, A AMPERE A.I.C. AMPERES INTE (SYMMETRICA)	ERRUPTING CAPACITY	MCB MLO M.C.	MAIN CIRCUIT BREAKE MAIN LUGS ONLY MECHANICAL CONTRA
	PHYSICAL DAMAGE. b. FLEXIBLE METALLIC CONDUIT I S PERMITTED FOR SHORT CONNECTIONS TO LIGHT FIXTURES (6'-0" MAX). FLEXIBLE CONDUIT SHALL ALSO BE INSTALLED FOR EQUIPMENT REQUIRING VIBRATION ISOLATION AND	AF/AT AMP FRAME, A AHJ AUTHORITY HA AS/AF AMP SWITCH, /	AVING JURISDICTION AMP FUSE	M/M MV	METER METER MAIN MERCURY VAPOR
	HORIZONTAL RUNS IN WOODEN STUD WALLS. c. ELECTRICAL METALLIC TUBING (EMT) WITH COMPRESSION TYPE FITTINGS SHALL BE USED FOR BUILDING INTERIOR WORK.	ATS AUTOMATIC TH AVG AVERAGE BDF BUILDING DIST	RIBUTION FRAME	MH MIN. MCA	METAL HALIDE MINIMUM MINIMUM CIRCUIT AMF
	d. P.V.C. CONDUIT SHALL BE USED FOR UNDERGROUND CONDUITS. ROUTE CODE SIZED GROUND WIRE INSIDE OF CONDUIT. CONDUIT RISERS AND STUBS ABOVE GRADE SHALL BE I.M.C. WITH HALF-LAPPED TAPE COVERING OR P.V.C. COATING.	BR BRANCH BLDG BUILDING CEC CALIFORNIA EI	LECTRICAL CODE	MCC MCM MCP	MOTOR CONTROL CEN THOUSAND CIRCULAR MOTOR CIRCUIT PROT
4.	UNLESS OTHERWISE NOTED OR REFERENCED ON THE DRAWINGS ALL NEW ELECTRICAL WIRING IS TO BE 600V RATED COPPER WITH TYPE "THHN/THWN" INSULATION.	CIRC., CKT. CIRCUIT CB CIRCUIT BREAM CSFD COMBINATION	KER SMOKE FIRE DAMPER	MFR. MTD MW	MANUFACTURER MOUNTED MICROWAVE
5.	ALL MOUNTING HEIGHTS REFERENCED ON DRAWINGS ARE MEASURED FROM FINISHED FLOOR UNLESS OTHERWISE REFERENCED OR INDICATED ON THE DRAWINGS.	C CONDUIT C.O. CONDUIT ONLY PULLSTRING	Y, COMPLETE WITH	N NATS NEC	NEW EQUIP. NON AUTOMATIC DISC NATIONAL ELECTRICAL
6.	ALL ELECTRICAL EQUIPMENT LOCATIONS (LIGHTING, RECEPTACLE, FLOOR BOX, ETC.) ARE TO BE VERIFIED WITH THE ARCHITECT AND/OR EQUIPMENT SUPPLIER PRIOR TO BEGINNING ANY ROUGH-IN.	CONN CONNECTED CPT CONTROL POW CLCB CURRENT LIMI	VER TRANSFORMER TING CIRCUIT BREAKER	NEMA NC	NATIONAL ELECTRICA MANUFACTURERS' AS NORMALLY CLOSED
7.	ALL LIGHTING FIXTURES SHALL BE MOUNTED AND SUPPORTED IN ACCORDANCE WITH OSHA STANDARDS, AND ALL	CLF CURRENT LIMI CT CURRENT TRA DIA DIAMETER	TING FUSE .NSFORMER	NO NF NIC	NORMALLY OPENED NON-FUSED NOT IN CONTRACT
8.	THE DRAWINGS INCLUDED IN THIS DOCUMENT SET ARE DIAGRAMMATIC. THEY ARE REPRESENTATIVE OF THE ENGINEER	DISC DISCONNECT DIST DISTRIBUTION E EXISTING EQU	IP. TO REMAIN	N.T.S. NL NO. or #	NOT TO SCALE NIGHT LIGHT NUMBER
	TO BE CONNECTED TO. THE SELECTED EC SHALL BE RESPONSIBLE FOR PROVIDING ALL J-BOXES, CONDUIT, WIRING/ CABLING, ETC. AS REQUIRED FOR A COMPLETE AND OPERATIONAL ELECTRICAL INSTALLATION.	E.C. ELECTRICAL C EMS ENERGY MANA SYSTEM	ONTRACTOR AGEMENT CONTROL	OFCI %Z	OWNER FURNISHED, C INSTALLED. PERCENT IMPEDANCE
9.	ALL ELECTRICAL EQUIPMENT (PANELS, RECEPTACLES, J-BOXES, ETC.) SHALL BE WEATHERPROOF AND/OR INSTALLED IN A NEMA 3R ENCLOSURE WHERE APPLICABLE OR INSTALLED OUTDOORS.	EMT ELECTRICAL M ENT ELECTRICAL N EWC ELECTRIC WA <sup>-</sup>	IETALLIC TUBING ION-METALLIC TUBING TER COOLER	PH. or Ø PC P.C.	PHASE PHOTOCELL PLUMBING CONTRACT
10.	ALL ELECTRICAL WORK SHALL BE PERFORMED ACCORDING TO STATE, LOCAL, NATIONAL, AND DISTRICT STANDARDS AND CODES. COORDINATE SPECIFIC REQUIREMENTS WITH DISTRICT STANDARDS AND AUTHORITY HAVING JURISDICTION.	E.P.O. EMERGENCY P E-O-L END-OF-LINE C EF EXHAUST FAN	'OWER OFF JIRCUIT TERMINATOR.	P PVC PDU	POLE POLY VINYL CHLORIDE POWER DISTRIBUTION
11.	ALL ELECTRICAL EQUIPMENT SHALL BE NEW AND IS TO BE CLEARLY LABELED/IDENTIFIED AS UNDERWRITER LABORATORIES (UL) COMPLIANT UNLESS OTHERWISE NOTED OR REFERENCED IN THE DRAWINGS OR SPECIFICATIONS. ANY EQUIPMENT WITH A LISTING OTHER THAN "UL" OR OTHER NATIONALLY RECOGNIZED TESTING LABORATORY (NRTL) LISTING	E/G EQUIPMENT G EP EXPLOSION PF ER* EXISTING EQU	ROUND (GREEN) ROOF IP. TO BE REOLCATED	PRIMARY PROVIDE PT	OVER 600 VOLTS FURNISH, INSTALL ANE POTENTIAL TRANSFOR
12	AS REFERENCED IN CEC 110.2 (I.E. EQUIPMENT WITH A RECOGNIZED "UR/"RU" LISTING) ARE NOT PERMITTED FOR USE.	(* CORRESPON ERT* NEW LOCATION (* CORRESPON	IDS TO NEW LOCATION) N FOR REOLCATED EQUIP. NDS TO PREVIOUS LOCATION)	PA REC, RECEPT REF	PUBLIC ADDRESS RECEPTACLE REFRIGERATOR
13	BUILDING PERMITS IN THEIR FINAL BID.	FT or 'FEET FA FIRE ALARM FLA FULL LOAD AM	IPS	RGS RMS SCC	RIGID GALVANIZED STI ROOT MEAN SQUARE SHORT CIRCUIT CURR
14	GUARANTEE THE COMPLETE ELECTRICAL INSTALLATION FOR A PERIOD OF 1-YEAR.	GRD GROUND GFCI GROUND FAUL GFP GROUND FAUL	.T CIRCUIT INTERRUPTER. .T PROTECTION	SCS SFD SECONDARY	STRUCTURED CABLING SMOKE FIRE DAMPER 600 VOLTS AND LESS
14.	ALL ELECTRICAL DISTRIBUTION EQUIPMENT (PANELS, DISTRIBUTION BOARDS, TRANSFORMERS, ETC), FEEDERS (CONDUIT, CONDUCTOR SIZE, AND QUANTITY), MECHANICAL EQUIPMENT, ELEVATORS, VARIABLE FREQUENCY DRIVES (VFD'S), ETC. MAY ONLY BE REFERENCED ON THE SINGLE-LINE DRAWING AND NOT INDIVIDUAL PLAN SHEETS. EC	GEC GROUNDING E HACR HEATING AIR C REFRIGERATI(	LECTRODE CONDUCTOR CONDITIONING	SMACNA SQ.	SHEET METAL & AIR CO CONTRACTORS' NAT'L SQUARE
15.	EC SHALL BE RESPONSIBLE FOR ALL REQUIRED SAW-CUTTING, CORE DRILLING, PATCHING, REFINISHING, ETC. AS	HOA HAND-OFF-AUT HVAC HEATING, VEN CONDITIONING	ГО TILATING AND AIR 3	TC TEL/DATA TV	TIMECLOCK TELEPHONE AND DATA TELEVISION
	REQUIRED FOR INSTALLATION OF ELECTRICAL EQUIPMENT AND SYSTEMS. ANY PENETRATIONS OR OPENINGS MADE IN WALLS OR STRUCTURES SHALL BE PATCHED AND/OR SEALED AS REQUIRED TO MAINTAIN THE INTEGRITY AND/OR RATING OF THE WALL OR STRUCTURE.	H.,W.,D.,L. HEIGHT, WIDTH HID HIGH INTENSIT HP HORSEPOWEF	H, DEPTH, LENGTH I'Y DISCHARGE {	T.V.S.S. TYP	TRANSIENT VOLTAGE S SUPPRESSION TYPICAL
16.	EC SHALL VISIT THE SITE PRIOR TO SUBMISSION OF THEIR FINAL BID TO VERIFY ALL EXISTING SITE CONDITIONS WHICH MAY AFFECT THE COMPLETION OF THE ELECTRICAL INSTALLATION. ALL METHODS AND REQUIREMENTS FOR \	HPS HIGH PRESSUF IN. or "INCHES I/G ISOLATED GR(	RE SODIUM DUND	U.G.P.S. U.O.N. U.P.S.	UNDERGROUND PULL UNLESS OTHERWISE N UNINTERRUPTABLE PO
	OF ANY REQUIRED MODIFICATIONS WHICH ARE NOT REFERENCED ON THESE ELECTRICAL PLANS. SUBMITTAL OF THE ECORD EC'S BID DEMONSTRATES THE CONTRACTOR'S AWARENESS OF ALL SITE CONDITIONS AND REQUIRED WORK TO BE	IDF INTERMEDIATE JBOX JUNCTION BOX K DEGREE KELV	E DISTRIBUTION FRAME ( IN	VAV V VA	VARIABLE AIR VOLUME VOLTS VOLT AMPERES
17.	ALL CEILINGS AND CEILING SYSTEMS AS A RULE ARE CONSIDERED TO BE INACCESSIBLE. ALL ELECTRICAL DEVICES	KCMIL THOUSAND CIF KVA KILOVOLT AMF KW KILOWATT	RCULAR MILS REES	VD WP W	VOLTAGE DROP WEATHERPROOF WIRE
	AND EQUIPMENT INSTALLED ABOVE CEILINGS ARE TO BE MOUNTED IN A LOCATION WHICH IS ACCESSIBLE. IN SITUATIONS WHERE ELECTRICAL DEVICES AND EQUIPMENT MUST BE INSTALLED IN AN AREA WHICH IS INACCESSIBLE, EC SHALL INSTALL AN ADEQUATELY SIZED, CODE COMPLIANT ACCESS PANEL AS REQUIRED BY CURRENT CODES -	KWH KILOWATT HOU LCL LONG CONTINU L.F. LINEAR FEET	JR JOUS LOAD	XFMR XX	TRANSFORMER EXISTING EQUIP. TO BI
4.0	PRIOR TO ROUGH-IN.				
18.	SHALL PROVIDE ALL MOTOR START SWITCHES, DISCONNECTS, ETC. AS REQUIRED.				
19.	ALL ELECTRICAL EQUIPMENT CONNECTIONS, MOUNTING LOCATIONS, ELECTRICAL REQUIREMENTS, ETC. ARE TO BE COORDINATED AND VERIFIED PRIOR TO COMMENCEMENT OF ELECTRICAL ROUGH-IN.				
20.	EC TO SUBMIT SHOP DRAWINGS FOR THE APPROVAL OF THE ELECTRICAL ENGINEER OF RECORD FOR ALL ELECTRICAL EQUIPMENT AND MATERIALS TO BE UTILIZED IN THE ELECTRICAL INSTALLATION. ALL APPROVALS BY THE ENGINEER OF RECORD MUST BE SECURED PRIOR TO COMPLETION OF ANY PURCHASE ORDERS OR ROUGH-IN WORK.				
21.	THESE ELECTRICAL DRAWINGS AND ASSOCIATED SPECIFICATIONS ARE TO BE CONSIDERED CONTRACT DOCUMENTS FOR AGENCY REVIEW/APROVAL AND EC BIDDING PURPOSES.				
22.	THE COMPLETE ELECTRICAL SYSTEM SHALL BE GROUNDED IN ACCORDANCE WITH NEC/CEC ARTICLE 250. ALL POWER AND LIGHTING CIRCUITS SHALL BE INSTALLED WITH A MINIMUM #12AWG CU GROUND WIRE UNLESS OTHERWISE NOTED				
23.	OR REFERENCED. EC TO PROVIDE ENGRAVED PHENOLIC NAMEPLATES ON ALL DISCONNECT SWITCHES, DISTRIBUTION EQUIPMENT,			-	
24	REGARDING NAMEPLATE REQUIREMENTS.	3			
24.	ALL COVER PLATES FOR LIGHT SWITCHES AND OUTLETS SHALL BE STAINLESS STEEL WITH PANEL AND CIRCUIT ENGRAVED NAMEPLATES - UNLESS OTHERWISE NOTED.				
20.	AT THE COMPLETION OF THE PROJECT THE EC SHALL PROVIDE THE OWNER WITH A COMPLETE SET OF AS-BUILT ELECTRICAL DRAWINGS.				```
20.	WITH THE DISTRICT A MINIMUM OF 48 HOURS IN ADVANCE. ANY SERVICE DOWNTOWN SHALL NOT OCCUR DURING SCHOOL HOURS.		(2)	2	(1B
27.	EC SHALL BE RESPONSIBLE FOR FOR ENSURING THAT ALL LOW VOLTAGE SYSTEMS ARE COMPATIBLE AND ARE COMPLETE AND OPERATIONAL.				Section A-A
28.	EC SHALL PERMANENTLY TAG ALL CONDUCTORS IN EACH ELECTRICAL AND LOW VOLTAGE SYSTEM AS REFERENCED IN THE SPECIFICATIONS.		SYSTEM NO. W-L- F RATINGS - 1, 2, 3 AND 4 HR	1001 (SEE ITEMS 2 A	ND 3)
29.	ANY SURFACE MOUNTED EXPOSED CONDUIT IN VIEW OF THE PUBLIC SHALL BE PAINTED TO MATCH THE FINISH OF THE SURFACE TO WHICH IT IS MOUNTED WITH TWO (2) COATS OF PAINT. ALL EXTERIOR SURFACE MOUNTED EXPOSED CONDUITS ARE TO BE PAINTED WITH TWO (2) COATS OF WEATHERPROOF LATEX PAINT		L RATINGS - 0, 1, 2, 3, AND L RATING AT AMBIENT - LESS L RATING AT 400 F - LESS T	4 NR (SEE ITEN S THAN 1 CFM/S HAN 1 CFM/SQ	GQ FT FT
30.	EC TO PROVIDE ALL CONDUIT ONLY (C.O.) INFRASTRUCTURE WITH A 3/16" NYLON PULL ROPE. LABEL PULL ROPE AT	1. WALL ASSEMBLY- THE 1 CONSTURCTED OF THE	I, 2, 3 OR 4 HR FIRE-RATED GYF	PSUM WALLBOA	ARD/STUD WALL ASSEMBI
31.	IN INSTANCES WHERE A CONFLICT BETWEEN THE ELECTRICAL DRAWINGS AND THE SPECIFICATIONS FOR THE PROJECT	SERIES WALL OR PARTI FOLLOWING CONSTRUC A. STUDS - WALL FRAI	TION DESIGNS IN THE UL FIRE F TION FEATURES: MING MAY CONSIST OF EITHER	RESISTANCE DI	(MAX 2 HR FIRE RATED AS
32.	SUPPORTS AND ATTACHMENTS OF ALL EQUIPMENT TO BE INSTALLED AS A PART OF THIS PROJECT SHALL BE DETAILED ON CONSTRUCTION DOCUMENTS, EXCEPT THOSE EXEMPTED BY THE 2022 CBC SECTION 1617A, EQUIPMENT SUPPORTS AND	STEEL CHANNEL STU NOM 2 BY 4 IN. LUME 1-3/8 IN. DEEP CHAN	JDS. WOOD STUDS TO CONSIS 3ER END PLATES AND CROSS B INELS SPACED MAX 24 IN. OC.	T OF NOM 2 BY RACES. STEEL	4 IN. LUMBER SPACED 16 STUDS TO BE MIN 3-5/8 IN
	ATTACHMENTS SHALL BE APPROVED BY THE APPROPRIATE REGISTERED DESIGN PROFESSIONAL (RDP) AND OSHPD AS A PART OF FIELD REVIEWS/OBSERVATIONS. THE INSPECTOR OF RECORD (IOR) SHALL ASSURE THAT THE ABOVE REQUIREMENTS ARE ENFORCED	B. WALLBOARD, GYPSI GYPSUM WALLBOAF SHALL BE AS SPECII	JM * - NOM 1/2 OR 5/8 IN. THICK, 2D TYPE, THICKNESS, NUMBER FIED IN THE INDIVIDUAL U300 O	, 4 FT. WIDE WI <sup>-</sup> OF LAYERS, FA R U400 SERIES	TH SQUARE OR TAPERED STENER TYPE AND SHEE DESIGN IN THE UL FIRE F
33.	ELECTRICAL DRAWINGS ARE DIAGRAMMATIC. AS SUCH, ALL ELECTRICAL EQUIPMENT LOCATIONS, CONDUIT ROUTING, ETC. ARE NOT PRECISE AND SHALL BE COORDINATED. VERIFIED. AND DETERMINED IN THE FIELD. EC TO INSTALL ALL	DIRECTORY. MAX DIA 2. PIPE OR CONDUIT - NOM DIAM (OR SMALLER) SEF	AMETER OF OPENING IS 13-1/2 ا ا 12 IN. DIAM (OR SMALLER) SCI RVICE WEIGHT (OR HEAVIER) C،	IN. HEDULE 10 (OR AST IRON SOIL	HEAVIER) STEEL PIPE, N PIPE, NOM 12 IN. DIAM (O
	ELECTRICAL EQUIPMENT AND ROUTE ALL CONDUITS IN LOCATIONS WHICH MEET CODE REQUIREMENTS FOR ACCESSIBILITY/MOUNTING AND DO NOT INTERFERE WITH ANY BUILDING STRUCTURES, UTILITIES, OR OTHER TRADE EQUIPMENT.	CLASS 50 (OR HEAVIER) 4 IN. DIAM (OR SMALLER (OR HEAVIER) COPPER	DUCTILE IRON PRESSURE PIPE () STEEL ELECTRICAL METALLIC TUBING OR NOM 1 IN. DIAM (OR	E, NOM 6 IN. DIA CTUBING, NOM SMALLER) FLE	M (OR SMALLER) STEEL ( 6 IN. DIAM (OR SMALLER) XIBLE STEEL CONDUIT. W
34.	ALL EXISTING SITE RELATED ELECTRICAL EQUIPMENT (I.E. UNDERGROUND UTILITIES, DUCTS, STRUCTURES, PULL BOXES, ETC.) LOCATIONS ARE DIAGRAMMATIC IN NATURE AND ONLY REFLECT APPROXIMATE LOCATIONS, QUANTITIES, AND/OR	IS USED, MAX F RATING 4 IN. DIAM MAY ONLY BE OR CONDUIT IS PERMIT	OF FIRESTOP SYSTEM (ITEM 3) USED IN WALLS CONSTRUCTE TED IN THE FIRESTOP SYSTEM.	IS 2 HR. STEEL D USING STEEL PIPE OR COND	L PIPES OR CONDUITS LAI L CHANNEL STUDS. A MAX DUIT TO BE INSTALLED NE
	ROUTING INFORMATION. ALL REFERENCED INFORMATION HAS EITHER BEEN SURVEYED, REPORTED BY THE OWNER/ OWNERS REP, AND/OR REFERENCED ON AN AS-BUILT RECORD DOCUMENTS. ALL EXISTING ELECTRICAL EQUIPMENT REFERENCE D ON THESE DRAWINGS IS TO BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO COMMENCEMENT OF	STUD CAVITY WIDTH AN 3. FILL, VOID OR CAVITY M BETWEEN PIPE OR CON	D TO BE RIGIDLY SUPPORTED ( ATERIAL* - CAULK FILL MATERI DUIT AND GYPSUM WALLBOAR!	ON BOTH SIDES AL INSTALLED D AND WITH A N	S OF WALL ASSEMBLY. TO COMPLETELY FILL ANI MIN 1/4 IN. DIAM BEAD OF
	WORK. BY ACCEPTING THESE PLANS OR PROCEEDING WITH ELECTRICAL SCOPE OF WORK, AGREES TO ACCEPT LIABILITY AND SHALL RENDER THE ENGINEER OF RECORD HARMLESS FOR ANY ELECTRICAL EQUIPMENT NOT REPORTED TO THE ENGINEER DURING THE DESIGN PROCESS. THE CONTRACT TO TAKE THE RECUIDED RECOUTIONARY MEASURES	TO PERIMETER OF PIPE BOTH SIDES OF WALL AS HOURLY FIRE RATING O	OR CONDUIT AT TIS EGRESS FI SSEMBLY. THE HOURLY F RATIN F THE WALL ASSEMBLY IN WHIT	ROM THE WALL	CAULK INSTALLED SYM ESTOP SYSTEM IS DEPEN LED. AS SHOWN IN THE F
<b>2</b> F	TO ENSURE ALL EXISTING ELECTRICAL EQUIPMENT IS PROTECTED IN PLACE.	THE HOURLY T RATING ( CONDUIT AND THE HOU BELOW:	OF THE FIRESTOP SYSTEM IS D RLY FIRE RATING OF THE WALL	EPENDENT UP	ON THE TYPE OR SIZE OF WHICH IT IS INSTALLED, A
ა <u>ა</u> .	ANT EXISTING BUILDING STRUCTURES OR SURFACES DAMAGED BY DEMOLITION OR DURING INSTALLATION ACTIVITIES SHALL BE REPAIRED, PATCHED, AND/OR REFINISHED TO THE SATISFACTION OF THE OWNER.	MAX PIPE OR CONDUIT	ANNULAR SPACE,	F RATING	T RATING
30.	ALE LAISTING ELECTRICAL EQUIPMENT INDICATED TO BE DEMOLISHED SHALL BE REMOVED ENTIRELY AND ALL AFFECTED SURFACES OR STRUCTURES SHALL BE REPAIRED, REPLACED, AND/OR REFINISHED TO MATCH THE ADJACENT SURFACES OR DAMAGED ITEM(S).	DIAM, IN 1	IN 0 TO 3/16	HR 1 OR 2	
37.	FOR CLARITY ONLY RECONSTRUCTION OR NEW WORK RELATED ELEMENTS AND SELECT EXISTING FACILITIES SPECIFICALLY REQUIRING COORDINATION WITH ANY NEW WORK.	1 4 4	1/4 TO 1/2 0 TO 1/4 0 TO 1-1/2#	3 OR 4 1 OR 2 1 OR 2	3 OR 4 0 0
38.	ALL CONDUITS, BOXES, SURFACE MOUNTED RACEWAYS, SUPPORT DEVICES, AND ASSOCIATED FITTINGS SHALL BE MOUNTED IN CONCEALED LOCATIONS ABOVE CEILINGS, DUCTS, TRUSSES, BEAMS, ETC. IN AREAS WHERE A CONCEALED MOUNTING LOCATION IS NOT AVAILABLE FOUIPMENT SHALL BE PAINTED TO MATCH THE AD LACENT	6 12	1/4 TO 1/2 3/16 TO 3/8	3 OR 4 1 OR 2	0 0
39	SURFACES. ANY PENETRATIONS BY CONDUITS OR OTHER ELECTRICAL EQUIPMENT THROUGH A FIRE RATED WALL - WHETHER	+WHEN COPPER PIPE IS #0 TO 1-1/2 IN. ANNULAR	USED, T RATING IS 0 HR. SPACE APPLIES ONLY WHEN T		+ CAULK IS USED AND ON
50.	EXISTING OR NEW - SHALL MAINTAIN THE APPROPRIATE FIRE RATING BY SEALING THE PENETRATION WITH THE APPROPRIATE UL-LISTED FIRE-STOP MATERIAL/SYSTEM.	2 HR RATED WALLS.	MINNESOTA MINING & MFG. C	"о ім. гОК 1 HR D CP 25WB+	WALLS AND 1-1/4

- 11.

- 14.

- 32

- OTHER ELECTRICAL EQUIPMENT, AS WELL AS THE TRANSITION FROM LIQUID-TITE TO EMT.
- 42. PROVIDE ARC FLASH LABELING AS REQUIRED PER 110.16.

40. CONTRACTOR TO INCLUDE IN BASE BID INSTALLATION OF A MINIMUM OF 24" OF LIQUID-TITE FLEXIBLE CONDUIT BEING INSTALLED ON ALL CONDUITS AT THE ENTRANCE TO ALL SWITCHGEAR, GENERATOR, TRANSFORMERS. PANELBOARDS AND 41. ALL WORK ON EMERGENCY EQUIPMENT IS TO BE PERFORMED LIVE. CONTRACTOR IS RESPONSIBLE FOR INCLUDING ALL REQUIRED COSTS, EQUIPMENT PERMITS, AUTHORIZATIONS, ETC. AS REQUIRED TO PERFORM THE WORK HOT.

NOTE: WHERE PROVIDED, THROUGH-PENETRATION FIRESTOP SYSTEM AND MEMBRANE PENETR ARE FOR REFERENCE ONLY. THROUGH-PENETRATIONS AND MEMBRANE PENETRATIONS SHALL I BY AN APPROVED PENETRATION FIRESTOP SYSTEM OR MEMBRANE PENETRATION FIRESTOP SY AS TESTED IN ACCORDANCE WITH ASTM E 814 OR UL 1479, WITH A MINIMUM POSITIVE PRESSURE OF 0.01 INCH (2.49 PA) OF WATER OR AS OTHERWISE PERMITTED BY CBC, SECTION 714. LISTED THROUGH-PENETRATION FIRESTOP SYSTEMS AND MEMBRANE PENETRATIONS SHALL BE INSTAL ACCORDANCE WITH THE INSTALLATION DETAILS FOR LISTED SYSTEMS. LISTED THROUGH-PENET FIRESTOP SYSTEMS, MEMBRANE PENETRATION PROTECTION AND OTHER PERMITTED MEANS AN PENETRATION PROTECTION SHALL BE SUBMITTED FOR OSHPD FIELD REVIEW AND APPROVAL PR INSTALLATION. CBC 714.1

\* BEARING THE UL CLASSIFICATION MARKING

LIGHTING LOW PRESSURE SODIUM MAXIMUM MAIN DISTRIBUTION FRAME MAXIMUM OVERCURRENT PROTECTION MAIN CIRCUIT BREAKER MAIN LUGS ONLY MECHANICAL CONTRACTOR METER METER MAIN MERCURY VAPOR METAL HALIDE MINIMUM MINIMUM CIRCUIT AMPS MOTOR CONTROL CENTER THOUSAND CIRCULAR MILS MOTOR CONTROL CENTER THOUSAND CIRCULAR MILS MOTOR CIRCUIT PROTECTOR MANUFACTURER MOUNTED MICROWAVE NEW EQUIP. NON AUTOMATIC DISCONNECT NATIONAL ELECTRICAL MANUFACTURERS' ASSOCIATION NORMALLY OPENED NORMALLY OPENED NON-FUSED NOT IN CONTRACT NOT TO SCALE NIGHT LIGHT NUMBER	POWER SYMBOLS     UPLEX RECEPTACLE, MOUNTING HEIGHT PER ADA DEVICE MOUNTING REQUIREMENTS OR AS NOTED. "TV"     ADJACENT TO DEVICE INDICATES RECEPTACLE IS TO BE MOUNTED AT 96" (OR HEIGHT REFERENCED).     COORDINATE LOCATIONS AND MOUNTING REQUIREMENTS WITH APPLICABLE.     UPLEX, GFC: RECEPTACLE, MOUNTING HEIGHT PER ADA DEVICE MOUNTING REQUIREMENTS OR AS NOTED.     WILL MOUNTED JUNCTION BOX. MOUNTING HEIGHT PER ADA DEVICE MOUNTING REQUIREMENTS OR AS NOTED.     WILL MOUNTED JUNCTION BOX. MOUNTING HEIGHT PER ADA DEVICE MOUNTING REQUIREMENTS OR AS NOTED.     JUNCTION BOX. MOUNTED IN ACCESSIBLE CEILING FOR APPLICATION DENOTED ON PLAN. 4S/DP MINIMUM OR     AS REQUIRED BY N.E.C.     JUNCTION BOX. MOUNTED IN ACCESSIBLE CEILING FOR APPLICATION DENOTED ON PLAN. 4S/DP MINIMUM OR     AS REQUIRED BY N.E.C.     JUNCTION BOX. MOUNTED IN ACCESSIBLE CEILING FOR APPLICATION DENOTED ON PLAN. 4S/DP MINIMUM OR     AS REQUIRED BY N.E.C.     JUNCTION BOX.MOUNTING HEIGHT PER ADA DEVICE MOUNTING REQUIREMENTS. SUBSCRIPTS AT     SINGLE POLE SWITCHES, MOUNTING HEIGHT PER ADA DEVICE MOUNTING REQUIREMENTS. SUBSCRIPTS AT     SINGLE POLE WILV - LOW VOLTAGE     Y - DUBLE POLE     LV - LOW VOLTAGE     Y - DUBLE POLE     LY - DUBLE POLE     LY - DUM VOLTAGE     Y - DUBLE POLE     LY - LOW VOLTAGE     Y - DUBLE POLE     LY - DUM VOLTAGE     Y - DUBLE POLE     LY - DUM VOLTAGE     Y - DUBLE POLE     Y - DUBLE POLE     Y - DUM VOLTAGE     Y - DUBLE POLE     Y - DUBLE P
OWNER FURNISHED, CONTRACTOR INSTALLED. PERCENT IMPEDANCE PHASE PHOTOCELL PLUMBING CONTRACTOR POLE POLY VINYL CHLORIDE POWER DISTRIBUTION UNIT OVER 600 VOLTS FURNISH, INSTALL AND CONNECT. POTENTIAL TRANSFORMER PUBLIC ADDRESS RECEPTACLE REFRIGERATOR RIGID GALVANIZED STEEL ROOT MEAN SQUARE SHORT CIRCUIT CURRENT	<ul> <li>HOME RUN TO PANEL. LETTER DESIGNATES PANEL, NUMBERS INDICATE CIRCUITS AND NUMBER OF CONDUCTORS IN CONDUIT RUN, PROVISION FOR 2#12 AWG, 1#12 G MINIMUM UNLESS OTHERWISE NOTED.</li> <li>CONDUIT STUB OUT, CAP, MARK AND RECORD ON AS-BUILT DRAWINGS</li> <li>CONDUIT CONTINUATION.</li> <li>FLEXIBLE CONNECTION AS REQUIRED. NUMBER OF CONDUCTORS AS REQUIRED. VERIFY CONNECTION REQUIREMENTS WITH MANUFACTURER PRIOR TO ROUGH-IN.</li> <li>CONDUIT/ BRANCH CIRCUIT/FEEDER CONTINUATION DOWN WALL TO FLOOR BELOW</li> <li>CONDUIT/ BRANCH CIRCUIT/FEEDER CONTINUATION UP WALL TO FLOOR ABOVE</li> <li>MECHANICAL EQUIPMENT CALLOUT, "AC" INDICATES UNIT TYPE AND "2" INDICATES</li> </ul>
STRUCTURED CABLING SYSTEM SMOKE FIRE DAMPER 600 VOLTS AND LESS SHEET METAL & AIR COND. CONTRACTORS' NAT'L ASSOC. SQUARE TIMECLOCK TELEPHONE AND DATA TELEVISION TRANSIENT VOLTAGE SURGE SUPPRESSION TYPICAL UNDERGROUND PULL SECTION UNLESS OTHERWISE NOTED UNINTERRUPTABLE POWER SYSTEM VARIABLE AIR VOLUME VOLTS VOLT AMPERES VOLTAGE DROP WEATHERPROOF	Ling       UNIT NUMBER. REFER TO MECHANICAL DRAWINGS FOR EXACT LOCATION AND ELECTRICAL REQUIREMENTS.         3       DETAIL CALLOUT, "3" INDICATES DETAIL NUMBER "E-1" INDICATES SHEET NUMBER.         XXXX       LIGHTING FIXTURE DESIGNATION         XXXX       LIGHTING FIXTURE DESIGNATION         X       PLAN NOTE REFERENCE, REFER TO NOTES ON SHEET, OR AS DIRECTED.         And the event of the even to the event of the even to the even
TRANSFORMER EXISTING EQUIP. TO BE DEMO'D	PIPING, DUCTWORK AND ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7 CHAPTER 13 AS DEFINED IN ASCE 7-16 SECTION 13.6, AND 2022 CBC, SECTIONS 1613A AND 1617A. THE METHOD OF SHOWING BRACING AND ATTACHMENTS TO THE STRUCTURE FOR THE IDENTIFIED DISTRIBUTION SYSTEM ARE AS NOTED BELOW. WHEN BRACING AND ATTACHMENTS ARE BASED ON A PRE-APPROVED INSTALLATION GUIDE (E.G. OSHPD OPM), COPIES OF THE BRACING SYSTEM INSTALLATION GUIDE OR MANUAL SHALL BE AVAILABLE ON THE STRUCTURAL PRIOR TO THE START OF AND DURING THE HANGING AND BRACING OF THE DISTRIBUTION SYSTEMS. THE STRUCTURAL ENGINEER OF RECORD SHALL VERIFY THE ADEQUACY OF THE STRUCTURE TO SUPPORT THE HANGER AND BRACE LOADS. MECHANICAL PIPING (MP, MECHANICAL DUCTS (MD), PLUMING PIPING (PP), ELECTRICAL DISTRIBUTION SYSTEMS (E):
(1A) (3) (3) (1A) (3) (1A) (3) (1A) (3) (1A) (1A) (1A) (1A) (1A) (1A) (1A) (1A	<ul> <li>MPDMDDPPDEX</li> <li>OPTION 1: DETAILED ON THE APPROVED DRAWINGS WITH PROJECT SPECIFIC NOTES AND DETAILS</li> <li>MPDMDDPPDE</li> <li>OPTION 2: SHALL COMPLY WITH THE APPLICABLE OSHPD PRE-APPROVAL (OPM #) # <u>0043 or 0052</u></li> <li>ALL CONDUITS 3" AND LARGER ARE TO BE SEISMICALLY BRACED/ANCHORED. CONTRACTOR TO REFER TO STRUCTURAL DRAWINGS FOR ANCHORAGE DETAILS AND REQUIREMENTS.</li> <li>SEISMIC BRACING FOR CONDUIT INSTALLED WITH THIS SCOPE OF SERVICES IS TO BE PROVIDED AND INSTALLED PER OPM-0043 MASON SEISMIC RESTRAINT COMPONENTS FOR SUSPENDED UTILITIES OR OTHER APPROVED OSHPD OPM.</li> <li>LAYOUT DRAWINGS IDENTIFYING/DEMONSTRATING THE BRACING/SUPPORT LOCATIONS AND REFERENCES TO DETAILS FROM THE RELEVANT OSHPD PRE-APPROVALS ARE TO BE SUBMITTED FOR USE BY THE INSPECTOR OF RECORD AND OSHPD FIELD STAFF. THE LAYOUT DRAWINGS ARE TO BE PREPARED BY THE SUBCONTRACTOR AND SIGNED BY A LICENSED STRUCTURAL ENGINEER PER ASCE 7 CHAPTER 13 AS MODIFIED BY 2022 CBC</li> </ul>
ND 3) 3) 2 FT FT RD/STUD WALL ASSEMBLY SHALL BE N THE INDIVIDUAL U300 AND U400 RECTORY AND SHALL INCLUDE THE MAX 2 HR FIRE RATED ASSEMBLIES) OR 4 IN. LUMBER SPACED 16 IN. OC. WITH STUDS TO BE MIN 3-5/8 IN. WIDE BY H SQUARE OR TAPERED EDGES. THE STENER TYPE AND SHEET ORIENTATION	<ul> <li>Section of the area of the first and the first of the first of the of</li></ul>
DESIGN IN THE UL FIRE RESISTANCE HEAVIER) STEEL PIPE, NOM 12 IN PIPE, NOM 12 IN. DIAM (OR SMALLER) M (OR SMALLER) STEEL CONDUIT, NOM S IN. DIAM (OR SMALLER) TYPE L OR (IBLE STEEL CONDUIT. WHEN COPPER PIPE PIPES OR CONDUITS LARGER THAN NOM CHANNEL STUDS. A MAX OF ONE PIPE JIT TO BE INSTALLED NEAR CENTER OF OF WALL ASSEMBLY. O COMPLETELY FILL ANNULAR SPACE IN 1/4 IN. DIAM BEAD OF CAULK APPLIED CAULK INSTALLED SYMMETRICALLY ON STOP SYSTEM IS DEPENDENT UPON THE .ED, AS SHOWN IN THE FOLLOWING TABLE. ON THE TYPE OR SIZE OF THE PIPE OR WHICH IT IS INSTALLED, AS TABULATED	HIGHEST OPERABLE PART OF DEVICE PER 2016 CBC CHAPTER 11B (SWITCHES & T-STATS)
HR 0+, 1 OR 2 3 OR 4 0 0 0 0 CAULK IS USED AND ONLY WHEN RATED WALLS AND 1-1/4 IN. FOR	MOUNTING HEIGHT
ND MEMBRANE PENETRATION DETAILS PENETRATIONS SHALL BE PROTECTED ETRATION FIRESTOP SYSTEM INSTALLED UM POSITIVE PRESSURE DIFFERENTIAL , SECTION 714. LISTED TIONS SHALL BE INSTALLED IN ISTED THROUGH-PENETRATION R PERMITTED MEANS AND METHODS OF VIEW AND APPROVAL PRIOR TO RATION DETAIL (TYP.) 02	FINISHED FLOOR OVER OBSTRUCTION ADA DEVICE MOUNTING DETA

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITEC APP: 04-122079 INC: REVIEWED FOR SS 🗹 FLS 🗹 ACS 🗌 DATE: 09/20/2023 1 5 G ARCHITECTURE | PLANNING | INTERIOR DESIGN 19520 Jamboree Road | Suite 100 irvine i California i 92612 949.250.0880 | FAX 949.250.0882 www.westgroupdesigns.com AG Design Inc. nsulting Electrical Engineers 714.769.9900 www.AGDesignEng.com 2100 W Orangewood Ave Suite 165 | Orange, CA 92868 **BRENTWOOD SCHOOL** OF ENVIRONMENTAL STUDIES VICTOR ELEMENTARY SCHOOL DISTRICT 13962 HOOK BLVD. VICTORVILLE, CA 92395 **REGISTRATION/SIGNATURE:** HEET TITLE: ELECTRICAL COVER SHEET SHEET NUMBER: E001 WD PROJ. # DRAWN BY: CHECKED DATE DL, AM GM 03/14/23 © WESTGROUP DESIGNS, INC.

![](_page_32_Figure_0.jpeg)

SHEET NOTE: (E) ELECTRICAL GEAR TO REMAIN

![](_page_32_Figure_4.jpeg)

![](_page_33_Figure_0.jpeg)

![](_page_34_Figure_1.jpeg)

![](_page_34_Picture_3.jpeg)

![](_page_34_Figure_5.jpeg)

![](_page_35_Picture_0.jpeg)

![](_page_35_Figure_3.jpeg)

![](_page_36_Figure_0.jpeg)

![](_page_36_Figure_1.jpeg)

### SHEET NOTE:

SWITCH OFF AND SAFE OFF EXISTING DISCONNECT SWITCH. PREPARE CONDUCTORS FOR REUSE ON NEW FUSED DISCONNECT.

![](_page_36_Figure_5.jpeg)

![](_page_36_Figure_6.jpeg)

![](_page_37_Figure_0.jpeg)

![](_page_37_Figure_2.jpeg)

CSFM LISTING # 7300-1004:0101

![](_page_37_Figure_5.jpeg)

![](_page_38_Picture_0.jpeg)

8V, 1Ø .3 MCA MOCP

	SHEET NOTES:
1	REUSE EXISTING CONDUCTORS, CIRCUIT BREAKER AND HOMERUN. PROVIDE NEW FUSED DISCONNECT SWITCH AS SHOWN.
2	DISCONNECT EXISTING UNIT, RECONNECT FUSED DISCONNECT AND PREPARE CIRCUITRY FOR REUSE.

![](_page_38_Figure_4.jpeg)

![](_page_38_Figure_5.jpeg)

1"C - 3#4, 1#8G 1"C - 3#4, 1#8G 2P 100AS 80AF 2P 100AS 80AF R3 208V, 1Ø 71 MCA 80 MOCP		
TYPICAL CLASSROOM IMPROVEMENT PLAN	I - SINGLE HVAC UNIT	3 <sub>T</sub>
		1/4" = 1'-0"

![](_page_39_Figure_1.jpeg)

![](_page_39_Figure_2.jpeg)