# MECHANICAL SHEET INDEX

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M1.02	HVAC SCHEDULES
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M3.01	20 40 HVAC STAFF AND STUDENT RESTROOM PLANS AND DETAILS
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M4.03	HVAC TITLE 24 FORMS
M5.01	HVAC SPECIFICATIONS

HVAC SYM	BOLS (ALL SYMBOLS SHOWN ARE NOT NECESSARILY USED ON DRAWINGS)
X	SUPPLY AIR DIFFUSER - SHADING INDICATES Pattern, no pattern shown equals 4-way or as woted
	RETURN OR EXHAUST AIR GRILLE
} 12*8 }	ROUND DUCTNORK. DIAMETER IN INCHES
20/12	RECTANGULAR DUCTWORK. SIZE IN INCHES, First Number 18 side shown
$\ge$	SUPPLY OR OUTSIDE AIR DUCT
	RETURN, MELIEF OR EXHAUST AIR DUCT
A B G	DIFFUSER/ORILLE LABEL: A - TYPE/DESIGNATION B - NEOK SIZE (INCHES) C - AIRFLOW (CFN)
÷ /	90 DEGREE DUCTWORK ELBOW W/ TURKING WHEB
34	TURKING VANES
Ĵ	RADIUS DUCTNORK ELBOW - Round or Rectangular
	RECTANGULAR DUCTHORK BRANCH TAKE-OFF With 45 Degree Branch Inlet
t	HIGH EFFIEGENY "BUCKLEY" TAP WITH DAMPER
	DUCTHORK BIZE TRANSITION
	MANUAL VOLUME DAMPER
6	OCCUPANCY SENSOR
۲	THERMOSTAT
۲	SENIOR
۲	CARBON DIOXIDE SENSOR
۲	DUCT BUCKE DETECTOR
1	DRAILING NOTE REFERENCE

- 5. INSTALL HAVE, REFRIGERATION, AND FIRE SUPPRESSION EQUIPMENT THAT DO NOT CONTAIN OFFICE.
- BISTALL HWAG, REFRIGERATION, AND FIRE SUPPRESSIONS EQUIPMENT THAT DO NOT CONTAIN NULONG.
- TESTING AND ADJUSTING OF SYSTEMS SHALL BE REJURNED FOR NEW BUILDINGS LESS THAN 10,000 SQUARE FEET OR NEW SYSTEM TO SERVE AN ADDITION OR ALTERATION. TESTING AND ADJUSTING TO SE FREFORMED BY THE OWNER ESERVAL CONTRACTOR OR NOULAR MISTALES.
  - 8. PERFORM TESTING AND ADJUSTING PROCESSIES IN ACCORDANCE WITH IMMUFACTURER'S SPECIFICATIONS AND APPLICABLE STANDARDS ON EACH SYSTEM. TESTING AND ADJUSTING TO BE PERFORMED BY THE OMSITE GENERAL CONTINUETION ON ROUTING INSTALLES.
  - CONVERSION OF THE WARKS BEREFER, BUTCHEN, BUT
  - CONTRACT: DARACTION OF TENTING, ADJUSTING, AND BALANCING, PROVIDE A FINAL REPORT OF TENTING SUBHED BY THE INDIVIDUAL REPORTSULE FOR PERFORMENT THESE SERVICES. TESTING, ADJUSTING AND BALANCING TO BE PERFORMED BY THE ORDITE GREENL CONTRACTOR ON MODULAR INSTALLES.
  - 11. MOVIDE NE BUILDING OMERI OR REFREENTATIVE WITH DETAILED OPENATING AND MAINTENANCE INSTRUCTIONS AND OPDES OF CUMMATELEN/MEMORYTES FOR EACH SYSTEM. O & M INSTRUCTIONS MOL, BE CONSISTENT MICH MORENEEST BIO, CO, TITLE 6, GESTION 5142, MOR OFFEN REALTED RESULTIONS. INCLUDE A COPY OF ALL INSPECTION VERLEFLOATIONS AND REVORTS REALTED RET BEGINTER AREACT.

ABBRE	VIATIONS		NECESSARILY USED ON DRAW
Å/c	AMP, AMPERE AIR CONDITIONER, AIR CONDITIONING, ABOVE GEILING	DI WC	INCH, INCHES INCHES OF WATER COLUMN
ACCU	ATR COOLED CONDENSING UNIT	101	KELONATTS
ADJ AFG AFF AL ANBI ARCH	ADAUSTABLE ABOVE FILIENED GEILING ABOVE FILIENED GAUDE ACOUNTIC LINING AUGUSTIC LINING AMERICAN MAT'L STAMAADO INSTITUTE AMERICAN GOLERY OF MERICING.	LAT LUS, # LUS LUS LUS LUS	LEAVING AIR TEMPENATURE Pounds Leaving ory Bulb Low Pressure Leaving Water Tulb Leaving Water Temperature
ASHIME B/F BAS BLDG BTU CFN	HERRUGENTION & AS ENGINEERS Building Automation System Building British Thermal Unit	NDH NGA ND NECH NCP	1000 BTU PER HOUR HECHWAILDL CONTWACTOR HINDING CORALT ANDACTY NOTORIZED DANPER HECHWICHL MAUFACTURER HINDING MACOMAN OVER CUMPENT PROTECTIO
CFN CHNR/CHNS CLS CD CONN	CUBIC FEET PER HOUR CUBIC FEET PER HOUR CUBIC FEET PER HEINUTE CHILLED WATER METURN/SUPPLY CELLING CLEANOUT COMMECT, CONNECTION	N/A N.G. NC NIC	NOT APPLICABLE NORMALLY CLOBED NOISE CRITERIA NOT IN CONTRACT
COL CTE CHR/CHR8 *C	COLUMN CONNECT TO EXISTING Domestic cold mater Condensing Water Return/Supply Degnees Celsius	0/H QA QBD QD QBMA	OVERHEAD Outside Air (Ventilation Air) Opposed Blade Damper Overheidt Draimae, Gutside Dij Occupational Rafety Bhealth Ad
DB DOC DES DIA (OR #	DRY BULB DIRECT DIBITAL CONTROL DEGREES DIAMETER	PD PL86 P81	PRESSURE DROP Plumbing Pounds per square inch
DN DNG DX EAT	DOWN DRAILING DIRECT EXPANSION ENTERING AIR TEMPERATURE	NA RCP RD REL REQ	NETURN AIR NEFLECTED CEILING PLAN NOLF DRAIN NELOCATED NEGUINED
EDB ELEV ELEC EQUIP ESP	ENTERINÓ DRY BULB Elevation Electrical Eguipment External static prebure	NEV NEX NPH	REVISION, REVISE NEMOVE EXISTING REVOLUTIONS PER MINUTE SUPPLY AIR
ETR ENF ENF EXH EX	EXTERNAL STATUS PREDATE EXTERING WET BULD ENTERING WET BULD EXTERING WET BULD EXTERING EXTERING FIRE ALAGON	SAN SD SF SMACKA SP SPEC	SANCTANY SMOKE DETECTOR, STORM DRAIN SMARE FEET, BOLANE FOOT SMEET METAL & A/C CONT MAT'L / STATIC PREBBUNE SPECIFICATION
FO FD FF FLA FLEX FP FM	PLOOR GLEANDUT FINE DAMPER FULLAND FLOOR FULL LOAD ANPS FINE PROTECTION FEET FOR HILDUTE	THRU TP TSP TSTAT TYP	THROUGH Total Phessume Total Static Pressure Thermostat Typical
6711 FT *F	FEET PER KINUTE Foot, feet Degnees fahrenheit	U/F U/B	UNDERFLOOR
6 841 85 870	GAS GALLON GENERAL CONTRACTOR GALLONS PER DAY GALLONS PER HOUR	Y WAV VD VTR	VOLT, VENT VARIABLE AIR VOLUME VOLUME DAMPER VENT THROUGH ROOF
GPH GPH HP HSTAT HTB HTR HTR HYAC	GALLING FER HOUR GALLING FER HEITENTE HEATTING HOT WATER RETURN/SUPPLY HORGENWER, HEAT PARP HANTORISTAN HEATTING HEATTEN HEATT	u u/ u/0	NAIT, HELDTH HEITH HEITHOUT HET BULD

MEP Compared Androma Make All medianical patients, and detricinal components shall be androred and installed per details on the DSA approved construction documents. Where no details indicated, they following components that be androred or installed per details on the DSA approved construction documents. Where no details indicated, they following components that be androred or installed per details on the DSA approved per submitted in adjusted per submitted and an archived or installed per details on the DSA approved per submitted in the 2016 CBC, Sections 1616A 1,18 1. All permenter explorement and components.

2. Temporary or movable equipment that is permanently attached (e.g. hard wired) to the building utility services such as electricity, gas, or water.

3.Movable equipment which is statisticed in one place for more than 8 hours and heavier than 400 pounds or has a center mass located 4 feet or more above the adjacent floor or roof level that directly support the component are required to be anchored with temporary attachments.

The following mechanical and electrical components shall be politively attached to the structure, but the attachment need not to be detailed on the plans. These components shall have flexible connections provided between the component and associated dictoriate, plang, and conduit. A Components weighing lies than 400 pounds and have a control of mass flocated 4 flex of less above adjacent floor root of well that directly support the component.

B Components weighting less than 20 pounds, or in the case of distributed systems, less than 5 pounds per foot, which are suspended from the root or floor or hung from a wail.

a weat. For those elements that do not require details on the approved drawings, the installation shall be subject to the approval of the design professional in general responsible charge or structural engineer delogated responsibility and the DSA District Structural Engineer. The project Inspector will verify that all components and equipment have been anchired the accordance with above requirements.

Piping, Ductwork, Electrical Distribution System Bracing Note Piping, ductwork, and electrical distribution systems shall be braced to comply with the forces and displacements prescribed in ASCE 7-10 Section 13.3 as defined in ASCE 7-10 Section 13.6.5.6, 13.6.7, 13.8.8, and 2016 CBC, Sections 1616A 1.24, 1616A. 1.25 and 1616A. 1.26.

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Mechanical Piping (MP), Mechanical Ducts (MD), Plumbing Piping, (PP), Electrical Distribution Systems (E)

- MP MD PP E -Option 1: Detailed on the approved drawings with project specific notes and details.
- MP MD PP E -Option 2: Shall comply with the applicable OSHPD Pre-Approval (OPM#)#\_\_\_\_\_\_
- MET MET P- constraints the SMCM Select Protect Method Method Definite Definite COS), including any Address, Faitheres and other detachments or conscientibly identifies the SMCM Select Perturbation Manual, COPPE Edition, 2003, including any address of the approved damling with the applicable Selection Exact and details. The details and account for the applicable Selection Exact and details.



### Crate Modular Inc 3025 E. DOMINGUEZ STREET CARSON, CALIFORNIA 90810

TEL: 310.863.8268 Shannon@cratemodular.com AND ARCHITE





# 5801 Conifer St. Oak Park, CA 91377

Medea Creek Middle Schoo Modular Classrooms

# 1002 Doubletree Road, Oak Park, CA 91377 818-707-7922 Date Issued For

00102018 100% SCHEMETIC DESIGN 001720218 100% SCHEMETIC DESIGN 001702018 00% CONSTRUCTION DOLINERTS 10/18/2018 DSA PRODRESS DRAWINGS SUBWITTAL 12/20/2018 DSA SUBMISSION 04/05/2019 DSA RESUBMISSION

LEGEND M1.01

018-03780-00 HVAC NOTES AND

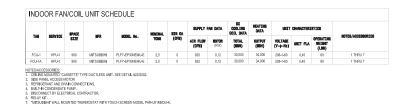


	FAN SCHEDULE										
EF	MANUFACTURER				DI	ЛҮ		ELECT	RICAL	WEIGHT	
SYMBOL	AND MODEL NO.	SERVICE	LOCATION		ESP (*) W.G.	RPM	INPUT WATTS	VOLTS	PHASE	(I B)	REMARKS
1	COOK 100C10DH	BOYS' RESTROOM 109	ROOF	250	0.25	931	74	115	1	25	SEE NOTE 1, 2 AND 3
2	COOK GC-186	GIRLS' RESTROOM 110	ROOF	250	0.25	931	74	115	1	25	SEE NOTE 1, 2 AND 3
3	COOK GC-148	STAFF RESTROOM 107	ROOF	125	0.25	839	64	115	1	25	SEE NOTE 1, 2 AND 3
4	COOK GC-186	CUSTODIAN 108	ROOF	125	0.25	839	64	115	1	25	SEE NOTE 1, 2 AND 3

NOTES: 1. PROVIDE WITH BACKDRAFT DAMPER AND LEVELED ROOF CURB (SEE DETAIL 14/S002).

INTERLOCK EXHAUST FAN TO LIGHT SWITCH, PROVIDE 5 MINUTES DELAY

PROVIDE EXHAUST FANS WITH FAN SPEED CONTROLLER.



WEIGHT (LBB)

VOLTAGE IIGA IIOCP

NOTES/ACCESSORIES

1 THRU 7

# OUTDOOR ROOF MOUNTED HEAT PUMP UNIT SCHEDULE ELECTRICAL DATA NCDEL No. SEER HOMETINAL TONS



- NOTES/ACCESSORIES
- NOTES/ACCESSORIES 1. UNIT COMPARTY SMULL RE MARED ON ANEI CONDITIONS 2. 06° CONDENSING TEMPERATURE 3. MHOA REFORMAT 4. INVERTER DAILYES (VALANALE SPEED) CONTROLLER 4. LOR HANEST CONTROL ONE IN D O 5. SIBLE PHASE GUITODOR UNIT 5. SIBLE PHASE GUITODOR UNIT

TAG BERVICE BPACE BIZE LOCATION NER

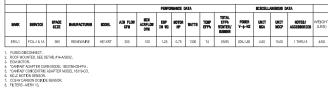
- 7. BOUTPMENT RAILS 8. FOR ANCHORAGE SEE DETAIL #14-C/S002.

## OUTDOOR AIR SCHEDULE

	м	AREA BABIS			OCCUPANCY BASES				DEMAND CONTROL VENTILATION BASE	
SPACE DESIGNATION	FLOOR AREA (SF)	cfni pen 8f	HEEN OFN By Anea	OCCUPANCY DENSITY	OCCUPANCY	CFN PER Person	NEN CFN By Occupancy	(BAX BY AREA	VENTILATION SERVIC AIRFLOW REQUIRED (CFW)	SERVICE
CLASSROOM - 960	863	0.15	130	43	20	15	645	645	130	UNIT 960

NOTES 1. AN ADD BNANCE TEST WILL BE NEWLINED TO VERIFY THE PROPER AND/OF OUTSIDE ADD TO COMPLY WITH THE T-24 CALCULATIONS, NEFORE FINAL APPROVAL COMPLISIONED BY THE OWNER/OF ON MODULAR INSTALLER. 

# OUTDOOR ROOF MOUNTED ENERGY RECOVERY UNIT SCHEDULE



AIR DISTRIBUTION SCHEDULE								
TAB	SERVICE	BOUNTING	IIFR	MODEL No.	NODULE 81ZE	FRAME STYLE	DAWPER	NOTES/ACCESSORIES
S1	CONCENTRIC	CELING	METALAIRE	DAF-CC5-1	26-7/8" x 26-7/8" WITH 21"x 21" SUPPLY NECK 15" x 15" RETURN NECK	1	FCU-1 & 1A	1 AND 2

NOTES/AGCESSORIES 1. FINISH - WHITE 2. SUBEACE MOUN

AIR CONDITIONING CONDENSATE PIPE SIZING AC TONS NIKINUN DRAIN SIZE 0-20 1\* 21-40 1-1/4" 41-80 1-1/2" 61-100 2\* 101-250 3\* 251+ 4\*





# 5801 Conifer St. Oak Park, CA 91377

Medea Creek Middle School Modular Classrooms

# 1002 Doubletree Road, Oak Park, CA 91377 818-707-7922 \_ Date Issued For 06112018 1035 SCHENETIC DESKIN 06272028 1035 SCHENETIC DESKIN 06102019 055 SCHENETIC DESKIN 06102019 055 SCHENETIC 10202019 055 SCHENETIC 12202012 054 SCHENETIC 040502019 054 SCHENESICON 040502019 054 RESUBMISSION 040502019 054 RESUBMISSION



Crate Modular Inc 3025 E. DOMINGUEZ STREET CARSON, CALIFORNIA 90810 TEL: 310.863.8268 Shannon@cratemodular.com



HVAC SCHEDULES







Medea Creek Middle School Modular Classrooms



 
 Date
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 DSA SUBMISSION 0000001
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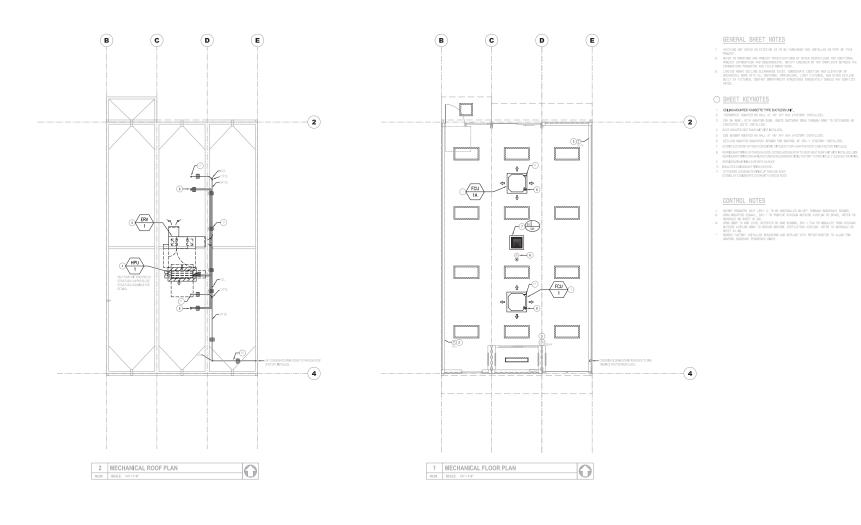


CARSON, CALIFORNIA 90810 TEL: 310.863.8268 Shannon@cratemodular.com



960 HVAC FLOOR & ROOF PLANS & DETAILS





DENTIFICATION STAMP DV. OF THE STATE ARCHITECT APP. 03-119462 INC: 0 REVIEWED FOR SS R.R.S. ACS DATE 10/3/19



### 5801 Conifer St. Oak Park, CA 91377

Medea Creek Middle School Modular Classrooms

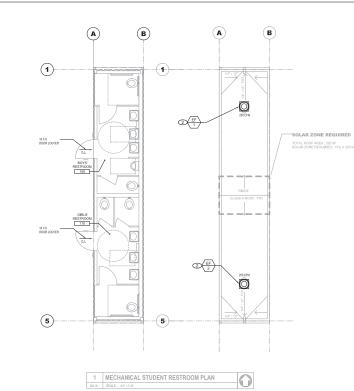
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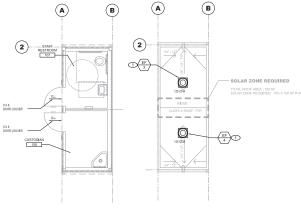


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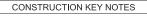








2	MECHANICAL STAFF RESTROOM PLAN	$\cap$
M2.10	SCALE: 14" = 1"-0"	



- PROVIDE NEW ROOFTOP EXHAUST FAN WITH ALL RELATED ACCESSORIES.CONNECT 8' Ø DUCT TO THE NEW 10'x10' 'ANEMOSTAT S3HD' CEILING REGISTER BELOW.
- PROVIDE NEW ROOFTOP EXHAUST FAN WITH ALL RELATED ACCESSORIES. CONNECT 10° Ø DUCT TO THE NEW I2°x12° ANEMOSTAT S3HD' CEILING REGISTER BELOW.



ĺ	3	MECHANICAL EXHAUST WIRING DIAGRAM	$\cap$
	N2.10	SCALE: 1/4" = 11-0"	U



				DATE: 10/3/19
Important         Important <t< td=""><td>Name         Name that if is a balance if the 1 all         Name that if is a balance if the 1 all         Name that if is a balance if the 1 all         Name that if is a balance if the 1 all         Name that if is a balance if the 1 all         Name that if is a balance if the 1 all         Name that is a balance if the 1 all         Name that is a balance if the 1 all         Name that is a balance if the 1 all         Name that is a balance if the 1 all         Name that is a balance if the 1 all         Name that is a balance if the 1 all         Name that is a balance if the 1 all         Name that is a balance if the 1 all         Name that is a balance if the 1 all         Name that is a balance if the 1 all         Name that is a balance if the 1 all         Name that is a balance if the 1 all         Name that is a balance if the 1 all         Name that is a balance if the 1 all         Name that is a balance if the 1 all         Name that is a balance if the 1 all         Name that is a balance if the 1 all all all all all all all all all a</td><td>Space frame         Space frame</td><td>Link Link         Link Distribution         Mill Link Distribution         Mill Link Distribution           Link Link         Control Link Distribution         Distribution         Distribution         Distribution           Link Link         Control Link Distribution         Distribution         Distribution         Distribution         Distribution           Link Link         Control Link Distribution         Distribution</td><td>Market School Lastract</td></t<>	Name         Name that if is a balance if the 1 all         Name that if is a balance if the 1 all         Name that if is a balance if the 1 all         Name that if is a balance if the 1 all         Name that if is a balance if the 1 all         Name that if is a balance if the 1 all         Name that is a balance if the 1 all         Name that is a balance if the 1 all         Name that is a balance if the 1 all         Name that is a balance if the 1 all         Name that is a balance if the 1 all         Name that is a balance if the 1 all         Name that is a balance if the 1 all         Name that is a balance if the 1 all         Name that is a balance if the 1 all         Name that is a balance if the 1 all         Name that is a balance if the 1 all         Name that is a balance if the 1 all         Name that is a balance if the 1 all         Name that is a balance if the 1 all         Name that is a balance if the 1 all         Name that is a balance if the 1 all         Name that is a balance if the 1 all all all all all all all all all a	Space frame         Space frame	Link Link         Link Distribution         Mill Link Distribution         Mill Link Distribution           Link Link         Control Link Distribution         Distribution         Distribution         Distribution           Link Link         Control Link Distribution         Distribution         Distribution         Distribution         Distribution           Link Link         Control Link Distribution	Market School Lastract
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	Non-         No-         Non-         Non-		Name of the second se	Crete Modular Inc Crete Modular Inc Carson, CALFORNIA 90810 TEL: 31063.8288 Shanon@cretemodular.com
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HVAC TITLE 24 FORMS

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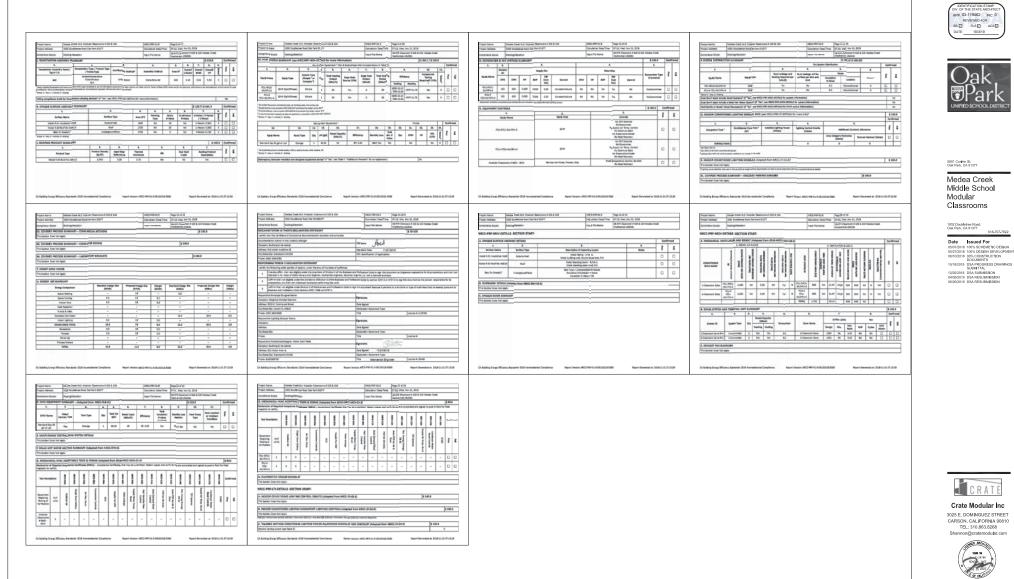
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BUDLONG & ASSOCIATES, INC ENGINEERS - CONSULTANTS 02019 2018-03780-000 HVAC TITLE 24 FORMS

M4.02





HVAC TITLE 24 FORMS

## MECHANICAL SPECIFICATIONS

### L GENERAL PROVISION

- EXEMPLATION INCLUDES A FUNCTION OF THE STATE OF THE

- and events, were a support restriction of a service that the association of the service of the service

- E. REFINION 1. DEGRETARY, PUTALE, BUCHTERK, ETC. BALL NOT BE SUPPORTED FROM ANY 1. DEGRETARY, PUTALE, PUTALE, ETC. BALL NOT BE SUPPORTED FROM ANY TTER BALL, BE SUPPORTE FROM ACCEPTABLE STRUCTORS, BULLION CONCRETE AS SHOWING RESET OF DEMANDES.
- There shall be available to the construct means and the construction of the c

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   ADDRESS 
   ADDRESS 
   ADDRESS AND ADDRESS AN

V.CONTROLS

VI. TENTING AND GALANCING

A DESCRIPTION OF ALL REPRESENTED AND A DESCRIPTION OF A DESCRIPTION OF

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- OTHERWISE DAMAGED. 6. MAINTAIN ACCESS TO BALANCING DAMPERS AND VALVES. 7. INSULATION SHALL BE BY CHEMB-COMMING. MALF. OR INAVVILLE. IV. HIM EQUIPHENT
- Constraints Accelere to framework and SUKE.
   Constraints Accelere to framework and SUKE.
   Constraints Accelere to framework and synchronization and success and suc
- III. MMC

A. GENERAL 1. THE PROJECT CONSISTS OF INSTALLATION OF WAR BOLIPHENT, DUCTIONS, AIR DISTRIBUTION, & PIFING.

- 8'-0". PLECIE CUCTE TO DIFFUEED SMALL BE ATCO MUNDER PRODUCTO, INC. MODEL UPC 6070, INMULATED (0=4.2), U.L. 181 NATED AND CLASS 1 AID COMMECTOR. MATTHIN LEMATH OF REFINE MUCT TO DIFFUER TO BE 5'.0'.





# 5801 Conifer St. Oak Park, CA 91377

Middle Schoo Modular

# 1002 Doubletree Road, Oak Park, CA 91377 818-707-7922

Date Issued For 05/01/2018 100% SCHEMETIC DES 05/27/2018 100% DESIGN DEVELO 06/10/2018 90% CONSTRUCTION DOCUMENTS 10/18/2018 DSA PROGRESS DRAWINGS SUBNITTAL SUBMITTAL 12/20/2018 DSA SUBMISSION 04/05/2019 DSA RESUBMISSION 06/25/2019 DSA RESUBMISSION



### 3025 E. DOMINGUEZ STREET CARSON, CALIFORNIA 90810 TEI 310 863 8268



HVAC SPECIFICATIONS



Classrooms

### ENERGY NOTES

# DOMESTIC HOT WATER HEATERS SHALL BE CERTIFIED AND LISTED BY THE CALIFORNIA ENERGY COMMISSION.

SERVICE WATER HEATING SYSTEM SHALL BE EQUIPPED WITH AUTOMATIC TEMPERATURE CONTROLS CAPABLE OF ADJUSTMENT FROM THE LOWEST TO THE HIGHEST ACCEPTABLE TEMPERATURE SETTING FOR THE INTENDE USE AS USED IN TABLE 3, CHAPTER 54 OF THE 1987 ASHRAE HANDBOOK, HVAC SYSTEMS & APPLICATIONS VOLUME.

LAVATORY FAUCETS AND SINK (NOT INCLUDING SERVICE SINK FAUCET) SHALL MEET THE FLOW REQUIREMENTS OUTLINED IN THE APPLIANCE EFFICIENCY STANDARDS.

LAVATORIES IN PUBLIC RESTROOMS SHALL HAVE NOT WATER CONTROLS THAT

Lawaiumes in public resinound shall have not water controls that waxmum flow from Rate (Graphics Self-closing values: 0.25 (circulating); or 0.5 PLOW MATE (GAL/CYCLE) FOR SELF-CLOSING VALVES: 0.25 (circulating); or 0.5 (NON-CIRCULATING), or 0.75 (WITH A DEVICE THAT LIMITS THE PERIOD OF WATER DISCHARGE I.E. FOOT SWITCH OR OCCUPANCY SENSOR)

3) MAXIMUM OUTLET TEMPERATURE: 105° F.

### FIELD VERIFY ALL CONDITIONS

DESIGN DRAWINGS ARE SCHEMATICS. THIS CONTRACTOR SHALL WSIT THE SITE PRIOR TO BIDDING OR AWARD OF CONTRACT TO INSPECT EXISTING FIELD CONDITIONS. THIS CONTRACT SHALL INCLUDE ALL LABOR AND MATERIALS NECESSARY FOR FIELD MODIFICATIONS DUE TO EXISTING CONDITIONS

THE CONTRACTOR SHALL CONTACT THE ARCHITECT, ENGINEER OR OWNER PRIOR TO BIDING FOR INTERPRETATIONS AND CLARAMICES OF THE DESIGN AND INCLIDE IN HIS BID ALL COSTS TO MEET THE DESIGN INTERT, CLARIFICATIONS MADE BY THE ACHTICET, ENGINEER OR OWNER AFTER BIDDING WILL BE FINAL AND SHALL BE IMPLEMENTED AT CONTRACTORS COST.

BIDDING CONTRACTORS SHALL HAVE A WORKING KNOWLEDGE OF LOCAL CODES AND ORDINANCE AND SHALL INCLUDE IN THEIR BIDS THE COST FOR ALL WORK INSTALLED IN STRICT ACCORDANCE WITH COVERNING CODES, THE FUNA SIAD SPECIFICATIONS NOT WITHSTANDING. THE CONTRACTOR SHALL ALERT ARCHITECT, ENGINEER OR OWNER OF ANY APPARENT DISCREPANCIES ETWEEN COVERNING CODES AND DESIGN INTENT

WASTE PIPING WITH NEATEY PRECONCERNEDE INSUERTION COVERS BY MCGUIRE "PROWRAP", OR

FIXTURE MOUNTING HEIGHTS FOR THE PHYSICALLY DISABLED SHALL CONFORM TO THE AMERICANS WITH DISABILITIES ACT AND OTHER AUTHORITIES HAVING JURISDICTION.

MEP Component Anchorage Note All mechanical, plumbing, and electrical components shall be anchored and detail is informed to the state of the state of the state of the detail is informed, the following components hall be anchored or broad to meet the force and displacement requirements prescribed in the 2016 CBC, Sections 1616A. 1.18 through 1616A. 1.26 and ASCE 7–10 Chapter 13, 26 and 30. I. All permonent equipment and components.

2.Temporary or movable equipment that is permanently attached (e.g. hard wired) to the building utility services such as electricity, gas, or wa

3.Movable equipment which is stationed in one place for more than 8 hours and heavier than 400 pounds or has a center mass located 4 feet or more above the adjacent floor or roof level that directly support the component are required to be anchored with temporary attachments.

The following mechanical and electrical components shall be positively attache to the structure, but the attachment need not to be detailed on the plans. These components shall have flackible connections provided between the component and associated ductwork, plping, and conduit. A Components weighing less than 400 pounds and have a center of mass located 4 feet or less above adjacent floor or roof level that directly support the components.

B.Components weighing less than 20 pounds, or in the case of distributed systems, less than 5 pounds per foot, which are suspended from the roof or floor or hung from a wall. For those elements that do not require details on the approved drawings, the

For mose elements into do not require details on the approved arawings, the installation shall be subject to the approval of the design professional in general responsible charge or structural engineer delegated responsibility and the DSA bitrict Structural Engineer. The project inspector will verify that all components and equipment have been anchored in accordance with above requirements.

<u>Piping, Ductwork, Electrical Distribution System Bracing Note</u> Piping, ductwork, and electrical distribution systems shall be braced to comply with the forces and displacements prescribed in ASCE 7-10 Section 13.3 as defined in ASCE 7-10 Section 13.6.5.6, 13.6.7, 13.6.8, and 2016 CBC, Sections 1616A.1.24, 1616A, 1.25 and 1616A, 1.25

The method of showing bracing and attachments to the structure for identified distribution system are as noted below. When bracing and attachments are based on a pre-approved installation guide (e.g., SMACNA or OSHPD OPM), copies of the bracing system installation guide or manual shall be available on the jobsite prior to the start of and during the hanging and bracing of the distribution systems. The structural Engineer of Record shall verify the adaptory the hanger and brace loads.

Mechanical Piping (MP), Mechanical Ducts (MD), Plumbing Piping, (PP), Electrical Distribution Systems (E)

MP MD PP E – Option 1: Detailed on the approved drawings with project specific notes and details.

MP \_\_\_\_\_MD \_\_\_\_PP \_\_\_\_E\_\_\_\_\_Option 2: Shall comply with the applicable OSHPD Pre-Approval (OPM#)#\_\_\_\_\_\_

applications come of the application (of eggs — option 3: Shall comply with the SMACNA Seismic Restraint Manual, OSHPD Edition (2009), including any addenda. Fasteners and other attachments not specifically identified in the SMACNA Seismic Restraint Manual, OSHPD Edition, are detailed on the approved drawings with the opticable Seismic Hazard and details.

The details shall account for the applicable Seismic Hazard Level AA and connection level 2 for the project and conditions.

 ALL REQUIRED CLEANOUTS SHALL BE INSTALLED AS PER SECTION 707.0 AND 719.0 OF THE 2013 CALIFORNIA PLUMBING CODE, NO CLEAN SPACING SHALL EXCEED 100 FT. ALL NEW POTABLE WATER SYSTEMS SHALL BE DISINFECTED PRIOR TO USE ACCORDING TO THE METHOD SET IN SECTION 609.9 OF THE PLUMBING CODE. 3. THE INSTALLATION OF THE PRETREATMENT SYSTEM SHALL CONFORM WITH MANUFACTURE'S SPECIFICATIONS. 4. AT TIME OF PERMIT ISSUANCE, CONTRACTOR SHALL SHOW THEIR WORKERS COMPENSATION INSURANCE CERTIFICATE. ALL WORK SHALL CONFORM TO ALL REQUIREMENTS OF STATE OF CALIFORNA TITLE 24 REGARDLESS OF THE INFORMATION INDICATED ON THESE PLANS. IT IS THE RESPONSIBILITY OF THE INDIVIDUAL SUPERVISING THE CONSTRUCTION TO ENSURE THAT THE WORK IS DONE IN ACCORDANCE WITH CODE REQUIREMENTS PRORE TO REQUESTING INSPECTION.

6. THE ISSUANCE OF A PERMIT SHALL NOT PREVENT THE OFFICIAL FROM REQUIRING THE CORRECTION OF ERRORS ON THESE PLANS OR FROM PREVENTING ANY VIOLATION OF THE CODES ADOPTED BY THE CITY, RELEVANT LAWS, ORDINNECE, RULES AND/OR REGULATIONS.

THIS PROJECT SHALL COMPLY W/ THE 2013 EDITION OF THE CALIFORNIA BUILDING CODE (T-24), 2016 CBC, 2016 CMC, 2016 CPC & THE 2016 CEC.

GENERAL NOTES

8. ALL HOSE BIBBS SHALL BE EQUIPPED WITH AN APPROVED NON-REMOVABLE VACUUM BREAKER.

9. VERIFY EXACT LOCATION OF ALL THE EXISTING SITE PIPING, CABLES, ETC., BEFORE TRENCHING. 10. DIAGRAMMATICAL DRAWINGS. DO NOT SCALE PLUMBING FLOOR PLAN FOR EXACT LOCATION OF THE

11. VERIFY ELECT. CHARACTERISTICS WITH ELECT. PLANS PRIOR TO BID OR MATERIAL PURCHASE.

12 VERIEV AND COORDINATE ROLICH-IN AND FIXTURE LOCATIONS WITH FIXT ARCH. MECH. DRAWINGS PRIOR TO FABRICATION OR INSTALLATION OF PIPI

13. VERIFY AND COORDINATE WITH STRUCT. DRAWINGS FOR EXACT LOCATION OF ALL FOUNDATION PENETRATIONS AND PROVIDE AS REQUIRED ALL NECESSARY SUPPORTS PER STRUCTURAL DETAIL. 14. SLOPE ALL WASTE LINES MIN. OF 1/4" PER FOOT OR AS REQUIRED BY LOCAL CODES.

15. FLUSH VALVES, FAUCET STOPS, ETC. SHALL BE ADJUSTED TO THEIR NORMAL WORKING CONDITIONS. 16. PROVIDE AND INSTALL AN AUTO AIR VENT AT THE HIGH POINT OF THE HOT WATER LINE SYSTEM.

WORK SHALL NOT BE COVERED UNTIL IT HAS BEEN INSPECTED, TESTED AND APPROVED BY THE PLUMBING INSPECTOR AND OTHER GOVERNMENTAL AUTHORITIES HAVING JURISDICTION.

18. NOTIFY FIXTURE CONTRACTORS THAT PLUMBING ROUGH-INS HAVE BEEN INSTALLED FIVE DAYS PRIOR TO POURING SLAB OR FINISH MATERIAL COVERING PAVEMENT PIPING FOR THEIR APPROVAL

19. CONTRACTOR SHALL SELECT BUILDING MATERIALS AND PRODUCTS FOR PERMANENT INSTALLATION ON THIS PROJECT THAT HAVE BEEN MANUFACTURED IN CALIFORNIA.

20. AS OF JANUARY 1, 2013, PLUMBING FIXTURES OR FITTINGS INTENDED TO DISPENSE WATER FOR HUMAN CONSUMPTION, WHICH CONTAIN MORE THAN 0.25% LEAD ARE NOT PERMITTED TO BE SOLD OR INSTALLED ANNHERE WITHIN THE STATE OF CALENDAM. THESE DEVICES SHALL BE LISTED TO ANNEX G OF NSY / MISE IS SECTION 118675 OR OTHER APPROXED TISTING STANDARD, DVIEDNE OF COMPLANCE SHALL BE PRESENTED TO THE BUILDING INSPECTIOR FINAL OF O FLICE INSPECTION. (AB1953).

21. WHERE SOIL IS CORROSIVE SPIRALLY WRAP ALL FERROUS PIPES, WRAP ALL JOINTS AND ASSOCIATED CONNECTIONS

		PLUMBING LEGEND		
SYMBOL	ABBREV.	DESCRIPTION	ABBREV.	DESCRIPTION
-WAF	WAF	SANITARY SEWER OR WASTE (ABOVE		NOT TO SCALE
<u> </u>	SS OR W	SANITARY SEWER OR WASTE (BELOW	GRADE)	INVERT ELEVATION
	V	VENT	FU	FIXTURE UNITS
	CW	COLD WATER	GPM	GALLONS PER MINUTE
	HW	HOT WATER	GPH	GALLONS PER HOUR
	UP	PIPE UP	PSI	POUNDS PER SQUARE INCH
<u> </u>	DN.	TEE DOWN	AP	ACCESS PANEL
	DN.	PIPE DOWN	FLR	FLOOR
	FCO	FLOOR CLEANOUT	CLG	CEILING
	DCO	DOUBLE CLEANOUT	ABV	ABOVE
	WCO	WALL CLEANOUT	BEL	BELOW
X	SOV	SHUT-OFF VALVE	DN	DOWN
	C.V.	CHECK VALVE	CONT.	CONTINUE
	U	CHECK VALVE	TYP.	TYPICAL
9	RHB	RECESSED HOSE BIBB	A.D.A.	AMERICAN DISABILITIES ACT
-XCW-	X.C.W.	EXISTING COLD WATER	A.F.F.	ABOVE FINISH FLOOR
X₩	X.W.	EXISTING WASTE	B.F.F.	BELOW FINISH FLOOR
Xv	X.V.	EXISTING VENT	N.I.P.C.	NOT IN PLUMBING CONTRACT
Θ	POC	POINT OF CONNECTION	D.S.	DOWN SPOUT
\$ <sup>3</sup>	T&P	TEMPERATURE & PRESSURE RELIEF \	ALVEDR.	HEADER
0	VTR	VENT THRU ROOF	MTD.	MOUNTED
۲	WHA	WATER HAMMER ARRESTOR	Y.B.	YARD BOX
۲	TP	TRAP PRIMER	CONN.	CONNECTION
0	FD	FLOOR DRAIN	W.C.	WATER CLOSET
<b>→</b>	HW	HOT WATER	L	LAVATORY
+	CW	COLD WATER	U.	URINAL
×	TMVA	THERMOSTATIC MIXING VALVE ASSEMB		NEW
(E)	EXIST,	EXISTING	KW	KILLOWATT
0		KEY CONSTRUCTION NOTE		
X*-Y		X"= PIPE SIZE Y= FIXTURE UNITS		

			1 LOWDIN	• • • • •			0.1. 001	200022	
SYM.	DESCRIPTION	MFR	MODEL	W	TRAP	v	CW	HW	REMARKS / SPECIFICATIONS
WC-3	WATER CLOSET	AMERICAN STANDARD	MADERA 3451.001	4"	INT.	2"	1 1/2	-	FLOOR MOUNTED WATER CLOSET FIXTURE TYPE TO BE SUBMITTED WITH SITE SPECIFICATIONS DRAWINGS
WC-4	WATER CLOSET	AMERICAN STANDARD	MADERA 3461.128	4"	INT.	2"	1 1/2"	-	FLOOR MOUNTED WATER CLOSET FIXTURE TYPE TO BE SUBMITTED WITH SITE SPECIFICATIONS DRAWINGS. PER ACCESSIBLE REQUIREMENTS.
L-1	LAVATORY	CECO	(3 HOLES)	2"	1 1/2" X 1 1/4"	1 1/2"	1/2*	-	20 X 18 CAST IRON, ACID RESISTANT ENAMEL WITH 3 HOLES DRAIN CHICAGO 1 1/4" GRID DRAIN 327-XCP FAUCET MANUF. CHICAGO MODEL 3400-ABCP, 0.5 GPM
L-2	LAVATORY (ACCESSIBLE)	CECO	(3 HOLES)	2"	1 1/2" X 1 1/4"	1 1/2"	1/2*	-	20 X 18 CAST IRON, ACID RESISTANT ENAMEL WITH 3 HOLES DRAIN CHICAGO 1 1/4" GRID DRAIN 327-XCP FAUCET MANUF. CHICAGO MODEL 3400-ABCP, 0.5 GPM
L-4	LAVATORY (ACCESSIBLE)	CECO	(3 553 (3 HOLES)	2"	1 1/2" X 1 1/4"	1 1/2"	1/2*	1/2"	20 X 18 CAST IRON, ACID RESISTANT ENAMEL WITH 3 HOLES DRAIN CHICAGO 1 1/4" GRID DRAIN 327-XCP FAUCET MANUF. CHICAGO MODEL 3400-ABCP, 0.5 GPM
U-1	URINAL	FALCON	F-1000	2"	1 1/2*	1 1/2"	3/4"	-	PROVIDE A MANUF SUPPLIED 'NON WATER URINA." DESCRIPTIVE ALACED AT EACH URINAL MOUNTOR HT. SHALI BE 48". PROVIDE CHROME BRASS FLANGE AND CHROME BRASS CAP TO URINAL WATER SUPPLY LINE. AS AN OPTION: MANUF: AMERICAN STANDARD MODEL: WASHEROOK 6590.503 W/FLUSH VALVE AMERICAN STANDARD MODELE: 604-5013, 0.125 CPF
FD-1	FLOOR DRAIN	j. r. smith	2005	2"	1 1/2"	1 1/2"	-	-	WITH TRAP PRIMER CONNECTION TO FLOOR DRAIN TRAP. AS AN OPTION: MANUF.: ZURN MODEL: ZN415B-P
HB-8	HOSE BIBB	WOODFORD	B75	-	-	-	3/4*	-	WITH VACUUM BREAKER IN RECESSED BOX WITH WALL FLANGE COVER. INSTALL WITHIN 2 FEET WALL ABOVE FINISH FLOOR.
WHA-1	WATER HAMMER ARRESTOR	J. R. SMITH	5005	-	-	-	3/4*	-	AS AN OPTION: MANUF .: PPP, SERIES SC
CO-1	CLEAN-OUT TOILET ROOMS	J. R. SMITH	4532-U	2" 3" 4"	-	-	-	-	WITH STAINLESS STEEL ACCESS BOX OR EQUAL IRON BODY FU LINE SIZE, ROUND ACCESS PLATE, COUNTERSINK W/TAPPED BOSS. AS AN OPTION: MANUF,: ZURN MODEL Z-1446-BP.
CO-3	CLEAN-OUT	J. R. SMITH	4532-U	2" 3" 4"	-	-	-	-	AS AN OPTION: MANUF,: ZURN MODEL: ZN-1400-HD
ATP-1	AUTOMATIC TRAP PRIMER	J. R. SMITH	2699	-	-	-	1/2"	-	RUN 1/2" TO FLOOR DRAIN-MOUNT IN WALL BEHIND ACCESS PANEL. SINGLE DRAIN INSTALLATION. AS AN OPTION: MANUF.: PPP MODEL: P2-500
SS-2	SERVICE SINK	CECO	871	2"	1 1/2" 1 1/4"	1 1/2"	3/4"	3/4"	28 X 28 CAST IRON, ACID RESISTANT FAUCET MANUF. CCHICAGO 897-RCF , 0.5 GPM

FIXTURE UNIT COUNT

QTY. FIXTURE

2 LAVATORY

2 WATER CO 2 HOSE BIB

FIXTURE UNIT

QTY FIXTURE

3 LAVATORY 3 WATER CLO 2 HOSE BIBB

PLUMBING FIXTURE CONNECTION SCHEDULE

PEX water supply plumbing systems TABLE 3.3 - PRESSURE LOSS FLOW RATE FIXTURE PRESSURE LOSS PSI/100 FT OF PIPE 3/8" 1/2" 5/8" 3/4" 1" 1-1/4" 1-1/2" GPM 0.2 0.4 0.6 0.8 1.0 1.2 1.3 1.4 1.5 1.6 1.7 
 7.0
 8
 22311
 10.93
 3.222
 1.248
 0.564
 0.158

 8.0
 10
 123.81388
 4.08
 1.555
 0.717
 0.198

 9.0
 12
 55.22
 1.71
 5.076
 1.959
 0.885
 0.244

 10.0
 13
 12
 5.072
 1.939
 0.885
 0.244

 11.0
 15
 22.65
 1.34
 2.085
 0.249

 11.0
 16
 22.65
 1.34
 2.085
 0.249

 13.0
 16
 2.66
 1.37
 2.072
 1.31
 0.492

 13.0
 16
 2.66
 1.37
 2.072
 1.31
 0.492

 14.0
 2.0
 11
 1.27
 2.495
 2.66
 0.610

 15.0
 2.1
 1.72
 4.905
 2.256
 -0.610

 15.0
 2.1
 1.827
 4.905
 2.256
 -0.610

 16.0
 2.6
 1.840
 7.0
 7.0
 -2.0.38
 2.57

	i	38anso	OPTION 1	FIXT	JRE UNIT NT	PLA	NSOBA	TION 2
	ABBR.	F.U. EA.	TOTAL F.U.	QTY.	FIXTURE	ABBR.	F.U. EA.	TOTAL F.U.
	L	1.0	2	1	URINAL	U	4.0	4
DST	WC	5.0	10	3	LAVATORY	L	1.0	3
B	HB	25/	3.5	2	WATER CLOSET	WC	5.0	10
_	TOTAL		15.5	2	HOSE BIBB	HB	2.5/	3.5
			33 GPM			TOTAL		20.5
								36 GPM
	PLA	NS OP	FON 3	FIX	TURE UNIT COUN	vī ∯a	N808h	TEN 1
	ABBR.	F.U. EA.	TOTAL F.U.	QTY.	FIXTURE	ABBR.	F.U. EA.	TOTAL F.U.
	L	1.0	3	3	URINAL	U	4.0	4.0
SET	WC	5.0	15	6	LAVATORY	L	1.0	6.0
	HB	2.5/	3.5	5	WATER CLOSET	WC	5.0	25.0
		1.0		4	HOSE BIBB	HB	2.5/	5.5

HB 2.5/ 5.5 1.0

TOTAL

40.5

47 CPM

	ture T coun	г	f	Panso	BPHEN 2	PIPE	MATERIAL SCHED	ULE	
QTY.	FIXTUR	Ε	ABBR.	F.U. EA.	TOTAL F.U.	SERVICE WASTE AND	PIPE	FITTINGS	LOCATION
4	LAVATO	RY	L	1.0	4.0	WASTE AND VENT	ABS	ABS	ABOVE GRADE BELOW GRADE
4	WATER	CLOSET	WC	5.0	20.0	COLD WATER (2" AND SMALLER)	PEX	PEX	ABOVE GRADE
4	HOSE I	BIBB	HB	2.5/ 1.0	5.5	(2 AND SMALLER) HOT WATER	PEX	PEX	ABOVE GRADE
			TOTA	_	29.5	COLD WATER	COPPER TYPE	WROUGHT	BELOW GRADE
					41 GPM	(2-1/2" AND BIGGER)	"K"	SOLDER	DELOW ONDE
						bioberty	HARD DRAWN	JOINT	
	EQU	PMENT :	SCHEDU	JLE				FITTINGS	
SY	MBOL	DESCR	IPTION						
Æ		<b>緊</b> 能	FORME	of US R Mod -1PH.	ĔL SP35,				

EWH 2 EEMAX POINT OF USE HEATER MODEL EX75, 7.5KW, 240V-1PH

PLUMBING SHEET INDEX P1.00 PLUMBING FRONT SHEET

P2.01 20' MODULE WASTE AND VENT FLOOR PLANS P2.02 40' MODULE WASTE AND VENT FLOOR PLANS D3.01 20' MODILLE COLD AND HOT WATER FLOOP PLANS

TOTAL 21.5

P3.02 40' MODULE COLD WATER FLOOR PLANS

- P4.01 20' MODULE WASTE AND VENT RISER DIAGRAM 40' MODULE WASTE AND VENT RISER DIAGRAM P4.02
- P4.03 20' MODULE COLD AND HOT RISER DIAGRAM
- P4.04 40' MODULE COLD WATER RISER DIAGRAM
- P5.00 PLUMBING DETAILS

Date Issued For 5/27/2018 100% DESIG 06/10/2018 90% CONSTRUCTION DOCUMENTS 
 DOCUMENTS

 10/18/2018
 DSA PROGRESS DRAWINGS SUBMITTAL

 12/20/2018
 DSA SUBMISSION

 04/05/2019
 DSA RESUBMISSION

 06/26/2019
 DSA RESUBMISSION



TEL: 310.863.8268 Shannon@cratemodular.com AND ARCHITE



PLUMBING FRONT SHEET





5801 Conifer St. Oak Park, CA 91377

Modular

Classrooms

1002 Doubletree Road, Oak Park, CA 91377

Medea Creek

Middle Schoo

	3/8"	1/2"	5/8"	3/4"	1"	1-1/4"	1-1/2"	2"
-	0.427	0.099	0.040	0.019	0.006	0.002	0.001	0.0003
-	0.880	0.204	0.083	0.039	0.012	0.005	0.002	0.001
-	1.470	0.341	0.138	0.065	0.019	0.008	0.003	0.001
-	2.189	0.508	0.205	0.097	0.029	0.011	0.005	0.001
-	3.032	0.703	0.284	0.135	0.040	0.015	0.007	0.002
-	3.993	0.926	0.374	0.177	0.053	0.020	0.009	0.003
-	5.096	1.175	0.475	0.225	0.067	0.026	0.012	0.003
-	6.258	1.450	0.586	0.278	0.082	0.032	0.014	0.004
-	7.555	1.751	0.707	0.335	0.099	0.038	0.017	0.005
-	8.960	2.076	0.839	0.397	0.118	0.046	0.021	0.006
-	10.47	2.425	0.980	0.464	0.138	0.053	0.024	0.007
-	12.08	2.799	1.131	0.535	0.159	0.061	0.028	0.008
-	13.80	3.195	1.291	0.611	0.181	0.070	0.032	0.009
-	15.61	3.615	1.460	0.691	0.205	0.079	0.036	0.010
-	17.52	4.058	1.639	0.776	0.230	0.089	0.040	0.011
-	19.53	4.523	1.827	0.865	0.256	0.099	0.045	0.012
-	21.64	5.010	2.023	0.958	0.284	0.110	0.050	0.014
-	23.84	5.519	2.229	1.055	0.313	0.121	0.055	0.015
1	26.14	6.050	2.443	1.157	0.343	0.133	0.060	0.017
3	39.00	9.024	3.643	1.724	0.511	0.197	0.089	0.025
3	54.10	12.51	5.050	2.390	0,708	0.274	0.124	0.034
4	71.36	16.50	6.658	3.150	0.933	0.360	0.163	0.045
4		20.97	8.459	4.002	1.185	0.458	0.207	0.057
5		25.90	10.45			0.565	0.256	0.071
5				5.972	1.768	0.683	0.309	0.085
7		43.44	17.52	8.284	2.451	0.946	0.428	0.118
8			23.11	10.93	3.232	1.248	0.564	0.156

1.8 2.0 3.0 3.5 4.0 4.0 4 4.5 5 5.0 5 6.0

	13					20.7	5 6.1	34	2.367	1.070	0.295
	15					24.6	3 7.2	81	2.808	1.269	0.350
	16					28.8	1 8.5	14	3.284	1.484	0.409
	18						9.8	32	3.792	1.713	0.472
	20						11.3	24	4.332	1.957	0.539
	21						12.	72	4.905	2.216	0.610
Π	23						14.8	30	5.60	2.50	-
	26						18.4	<b>1</b> 0	7.0	7.0	-
	30						22.	4	8.5	3.8	-
	34						26.	7	10.2	4.5	-
	39						-		11.9	5.3	-
N	IS PRESS	URE	LOSS	IN	UNITS	OF P	SI PEF	₹ 1	00 FFFT	OF PIPE.	





Medea Creek Middle School Modular Classrooms

### 1002 Doubletree Road, Oak Park, CA 91377 818-707-7922

 
 Date
 Issued For Solitization

 06112018
 10% SCHEMETIC DESIGN 00272018

 06102018
 10% SCHEMETIC DESIGN 00100018

 06102018
 ICK SOLITION DOCUMENTS

 10112018
 DAS UBLICATION DOCUMENTS

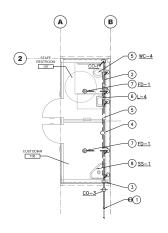
 10202018
 DAS UBLICATION DOCUMENTS

 10202018
 DAS UBLICATION DOCUMENTS

 00202018
 DAS UBLICATION DOCUMENTS

 00202019
 DAS RESUBMISSION

 00202019
 DAS RESUBMISSION





### KEY NOTES

 CONNECT NEW 4" W LINE TO EXISTING 4" WASTE LINE, VERIFY EXIST, WASTE LINE SIZE, DEPTH AND LOCATION PRIOR ANY WORK EXTEND LINE AS NECESSARY.

2 4" WASTE LINE BELOW FLOOR.

3 4" WASTE LINE DOWN TO BELOW GRADE.

4" VENT THROUGH ROOF.

(5) INSTALL NEW WATER CLOSET WITH ALL RELATED ACCESSORIES. RUN 4" W. (4 FU) DOWN, 2" V. (2 FU) UP. INSTALL WCO ABOVE FIXTURE.

(b) UT. INSTALL BOO ABUVE FINIALL RELATED (c) INSTALL NEW LAWARGY WITH ALL RELATED ACCESSORIES. RUN 2" W (1 FU). 1-1/2" V (1 FU) UP. RUN SEPARATE 1/2" CW DOWN TO NEW TAP PRIMER (ATP-1). INSTALL TAP PRIMER BEHIND LOCKABE ACCESS PANEL DISCHARGE 1/2" BELOW FLOOR TO FLOOR DRAIN.

 $\fbox{0}$  INSTALL NEW FLOOR DRAIN WITH ALL RELATED ACCESSORIES. RUN NEW 2" W (1 FU) DOWN AND  $1{-}1/2"$  V (1 FU) UP. PROVIDE TRAP PRIMER CONNECTION.

(8) INSTALL SERVICE SINK WITH ALL RELATED ACCESSORIES. RUN 3" W. (3 FU) DOWN, 2" V. (3 FU) UP.



Crate Modular Inc 3025 E. DOMINGUEZ STREET CARSON, CALIFORNIA 90810 TEL: 310.863.8268 Shannon@cratemodular.com





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P2.01





Medea Creek Middle School Modular Classrooms

### 1002 Doublatree Road, Oak Park, CA 91377 818-707-7922

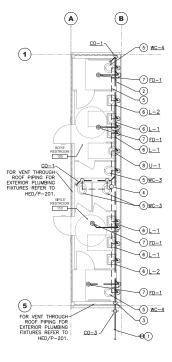
 Date
 Issued For

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# 1 RESTROOM OPTION 2 STUDENTS ONLY LAYOUT 2 (WASTE AND VENT) P2.02 SCALE: 1/4" = 1'-0"

## KEY NOTES

- CONNECT NEW 4" W LINE TO EXISTING 4" WASTE LINE, VERIFY EXIST, WASTE LINE SIZE, DEPTH AND LOCATION PRIOR ANY WORK EXTEND LINE AS NECESSARY.
- 2 4" WASTE LINE BELOW FLOOR.
- 3 4" WASTE LINE DOWN TO BELOW GRADE.
- 4" VENT THROUGH ROOF.
- (5) INSTALL NEW WATER CLOSET WITH ALL RELATED ACCESSORIES. RUN 4" W. (4 FU) DOWN, 2" V. (2 FU) UP. INSTALL WCO ABOVE FIXTURE.
- (6) INSTALL NEW LAVATORY WITH ALL RELATED ACCESSORIES, RUN 2" W (1 FU), 1-1/2" V (1 FU) UP, RUN SEPARATE 1/2" CW DOWN TO NEW TRAP PRIMER (ATP-1), INSTALL TRAP PRIMER BEHIND LOCKABLE ACCESS PANIL DISCHARGE 1/2" BELOW FLOOR TO FLOOR DRAIN.
- $\fbox{1}$  INSTALL NEW FLOOR DRAIN WITH ALL RELATED ACCESSORIES. RUN NEW 2" W (1 FU) DOWN AND 1-1/2" V (1 FU) UP. PROVIDE TRAP PRIMER CONNECTION.
- (8) INSTALL URINAL WITH ALL RELATED ACCESSORIES. RUN 2" W. (2 FU) DOWN, 1-1/2" V. (2 FU) UP DOWN TO FIXTURE. INSTALL WCO ABOVE FIXTURE.



3025 E. DOMINGUEZ STREET CARSON, CALIFORNIA 90810 TEL: 310.863.8268 Shannon@cratemodular.com









Medea Creek Middle School Modular Classrooms

### 1002 Doubletree Road, Oak Park, CA 91377 818-707-7922

\_ Date Issued For 
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 06012016
 100% SCHEMETC DESKIN

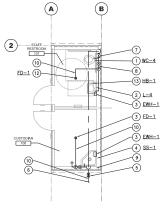
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 100% DESKIN DEVELOPMENT DOCUMENTS

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 50% PRODRESS DRAWINGS

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 DEA VISIONISION

 0602012019
 DEA RESUBMISSION

 062202019
 DEA RESUBMISSION



1 STAFF RESTROOMS LAYOUT 2 (COLD AND HOT WATER) P3.01 SCALE: 1/4" = 1'-0"

KEY NOTES

(1) INSTALL WATER CLOSET WITH ALL RELATED ACCESSORIES. RUN 1" (5FU) CW DOWN TO WATER CLOSET.

(2) INSTALL LAVATORY WITH ALL RELATED ACCESSORIES. RUN 3/4" CW (1FU) DOWN TO LAVATORY.

(3) INSTALL INSTANTANEOUS WATER HEATER WITH ALL RELATED ACCESSORIES. RUN 3/4" CW DOWN FROM AND 3/4" HW UP TO SINK.

(\*) INSTALL SERVICE SINK WITH ALL RELATED ACCESSORIES. RUN 3/4" (3 FU) CW DOWN TO SERVICE SINK.

(5) CW MAIN S.O.V. IN CONCRETE BOX MANUF. BROOKS MODEL 36H WITH NO. 36-T CAST IRON COVER WATER LINE MUST HAVE MINIMUM PRESSURE OF 41.0 PSI.

CONNECT WATER LINE TO WATER METER OR PRESSURE REGULATOR VALVE EXTEND LINE AS NECESSARY.

(7) WATER HEADER ISOLATION VALVES IN ACCESS PANEL. MANUF, ELMOOR MODEL DW-AKL, 16\*X20\* FOR PRVACY STAGGER ACCESS PANEL.

(8) INSTALL WATER HAMMER ARRESTOR WITH ALL RELATED ACCESSORIES AND TRAP PRIMER CONNECTION BEHIND LOCKABLE ACCESS PANEL.

COLD WATER UP FROM BELOW FLOOR.

(1) WATER LINE RUN BELOW FLOOR.

(1) WATER HEADERS RUN IN WALL.

(12) INSTALL FLOOR DRAIN WITH ALL RELATED ACCESSORIES. PROVIDE TRAP PRIMER CONNECTION.

(3) INSTALL HOSE BIBB WITH ALL RELATED ACCESSORIES. RUN 3/4" CW (2.5FU) DOWN. PROVIDE VACUUM BREAKER.



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P3.01



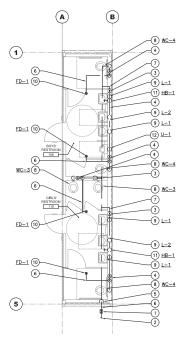


Medea Creek Middle School Modular Classrooms

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### 1002 Doubletree Road, Oak Park, CA 91377 818-707-7922

Date Issued For 001102018 100% SCHEMETIC DESIGN 001702018 100% SEGKA DEVELOPMENT 001702018 90% CONSTRUCTION DECLIMENTS 10182018 DSA PEODRESS DRAWINGS SUBWITTAL 12202018 DSA SUBWISION 002502019 DSA RESUBWISION 002502019 DSA RESUBWISION



KEY NOTES

(1) CW MAIN S.O.V. IN CONCRETE BOX MANUF. BROOKS MODEL 36H WITH NO. 36-T CAST IRON COVER WATER LINE MUST HAVE MINIMUM PRESSURE OF 45.0 PSI.

CONNECT WATER LINE TO WATER METER OR PRESSURE REGULATOR VALVE EXTEND LINE AS NECESSARY.

3 WATER HEADER ISOLATION VALVES IN ACCESS PANEL. MANUF. ELMDOR MODEL DW-AKL, 16"X20" FOR PRIVACY STAGGER ACCESS PANEL.

(4) INSTALL WATER HAMMER ARRESTOR WITH ALL RELATED ACCESSORIES AND TRAP PRIMER CONNECTION BEHIND LOCKABLE ACCESS PANEL.

5 COLD WATER UP FROM BELOW

6 WATER LINE RUN BELOW FLOOR.

(7) WATER HEADERS RUN IN WALL. (B) INSTALL WATER CLOSET WITH ALL RELATED ACCESSORIES. RUN 1" (5FU) CW DOWN TO WATER CLOSET.

(9) INSTALL LAVATORY WITH ALL RELATED ACCESSORIES. RUN 3/4" CW (1FU) DOWN TO LAVATORY.

10 INSTALL FLOOR DRAIN WITH ALL RELATED ACCESSORIES. PROVIDE TRAP PRIMER CONNECTION.

(1) INSTALL HOSE BIBB WITH ALL RELATED ACCESSORIES. RUN 3/4" CW (2.5FU) DOWN. PROVIDE VACUUM BREAKER.

(12) INSTALL URINAL WITH ALL RELATED ACCESSORIES. RUN 1" CW (4) DOWN TO URINAL.

2	RESTROO	M OPTION	2	STUDENTS	ONLY	LAYOUT	2	(COLD	WATER)	
P3.02	SCALE: 1/4	= 1'-0"								



CRATE





40' MODULES COLD WATER FLOOR PLANS





Medea Creek Middle School Modular Classrooms

 
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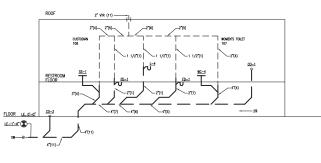
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1	STAFF RESTROOMS LAYOUT 2 - WASTE AND VENT RISER DIAGRAM
P4.01	SCALE: NTS



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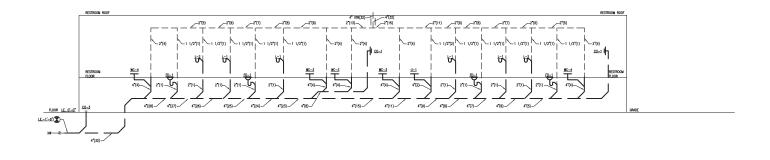






Medea Creek Middle School Modular Classrooms

Oak Park, G	
Date	Issued For
05/01/2018	100% SCHEMETIC DESIGN
05/27/2018	100% DESIGN DEVELOPMEN
06/10/2018	90% CONSTRUCTION DOCUMENTS
10/18/2018	DSA PROGRESS DRAWINGS SUBMITTAL
12/20/2018	DSA SUBMISSION
04/05/2019	DSA RESUBMISSION
06/26/2019	DSA RESUBMISSION



1	RESTROOM OPTION 2 STUDENTS ONLY LAYOUT 2 - WASTE AND VENT RISER DIAGRAM
P4.02	SCALE: NTS



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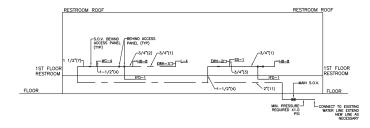






Medea Creek Middle School Modular Classrooms

002 Double Jak Park, C	
Date	Issued For
05/01/2018	100% SCHEMETIC DESIGN
05/27/2018	100% DESIGN DEVELOPMENT
06/10/2018	90% CONSTRUCTION DOCUMENTS
10/18/2018	DSA PROGRESS DRAWINGS SUBMITTAL
12/20/2018	DSA SUBMISSION
04/05/2019	DSA RESUBMISSION



1	STAFF RESTROOMS LAYOUT 1 - COLD AND HOT WATER RISER DIAGRAM
P4.03	SCALE: NTS



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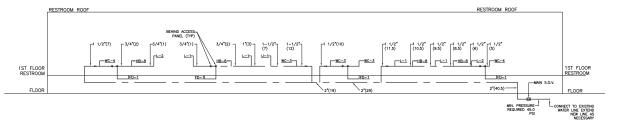


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5801 Conifer St. Oak Park, CA 91377

Medea Creek Middle School Modular Classrooms

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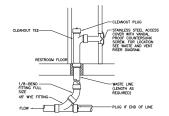




Medea Creek Middle School Modular Classrooms

 
 1002 Doubletes Road, Oat Park, CA1327
 2816/707/902

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2 (CO-1) WALL CLEANOUT DETAIL

LD WATER STOP

J-BOX W/ DISCONNECT SWITCH (BY ELEC. CONTRACTOR)

FIN. FLOOR

COORDINATE COVER WITH STRUCTURAL/ARCH.

COLLA

-1/8 BEND FULL SIZE, 4" MAX.

PLUG IF END OF LINE

RISER

3

CLEANOUT PLUG A

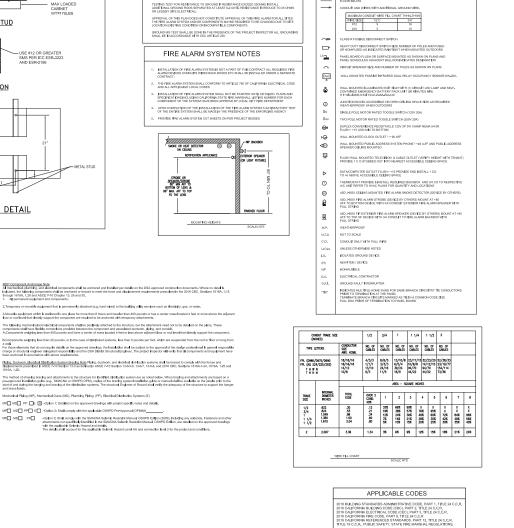
3 (CO-3) FLOOR CLEANOUT DETAIL



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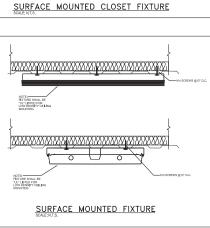


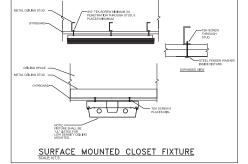
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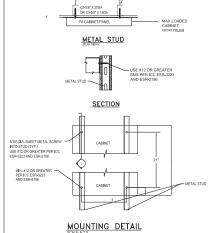


GENERAL GROUNDING NOTES

EACH BUILDING SHALL BE SEPARATELY GROUNDED WITH A 34 R0 X S COPPER CLAD STEEL GROUND ROD WHERE ROCK BOTTOM IS ENCOUNTERED ROD BE DRIVEN AT AN ANGLE NOT TO EXCEED AS DEGREES FROM THE VERTICAL OR SHALL BE BURIED IN A TRENCH THAT IS 30 DEEP (IP'S THE ELECTION LL)







(E) 3-5/8 X 20GA

(362S162-33) MN. STUDS



2017 CITY OF LOS ANGELES CODE AMENDMENTS TO CALIFORNIA CODE PARTIAL LIST OF APPLICABLE STANDARDS NFPA 72 National Fire Alarm Code (California Amended) 2013 EDITION (Note: See UL Standard 1971 for "Visual Devices") ELECTRICAL SHEET INDEX

PANEL SCHEDULES, & DETAILS 80 CLASSROUM POWER PLANS 0' STAFF RESTROOM LIGHTING AND POWER PLAN, PANEL SCHEDULES, 0' STUDENT REISTROOM LIGHTING PLAN, & POWER PLAN, PANEL SCHED LECTRICAL T-24 ENERGY COMPLIANCE FORMS CLASSROOM BUILDING

E1.00 E2.01 E2.02

E3.01 E3.02 E4.00 E4.01



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5801 Conifer St. Oak Park, CA 91377

Modular

Classrooms

1002 Doubletree Road, Oak Park, CA 91377

Date Issued For

DOCUMENTS 10/18/2018 DSA PROGRESS DRAWINGS SUBMITTAL 12/20/2018 DSA SUBMISSION 04/05/2019 DSA RESUBMISSION 06/26/2019 DSA RESUBMISSION

05/01/2018 100% SCHEMETIC DES 05/27/2018 100% DESIGN DEVELO 06/10/2018 90% CONSTRUCTION DOCUMENTS

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Medea Creek

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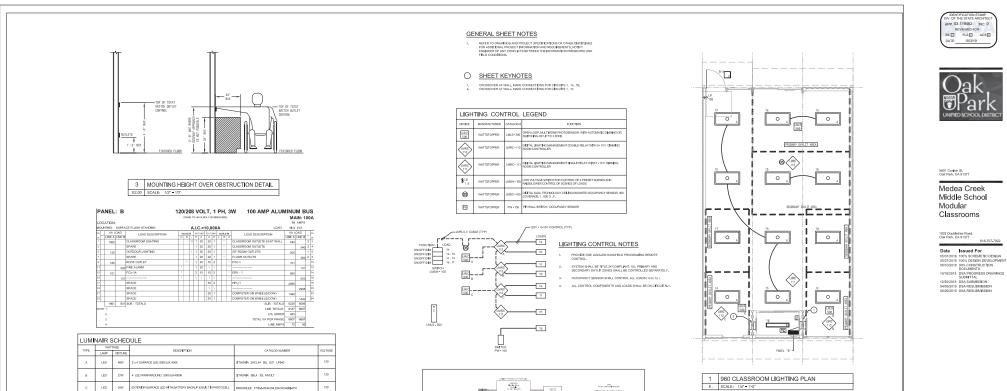


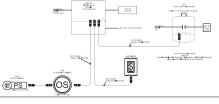
Crate Modular Inc 3025 E. DOMINGUEZ STREET CARSON, CALIFORNIA 90810



ELECTRICAL FRONT SHEET

E1.00





2	LIGHTING CONTROL DIAGRAM
E2.00	SCALE: NONE

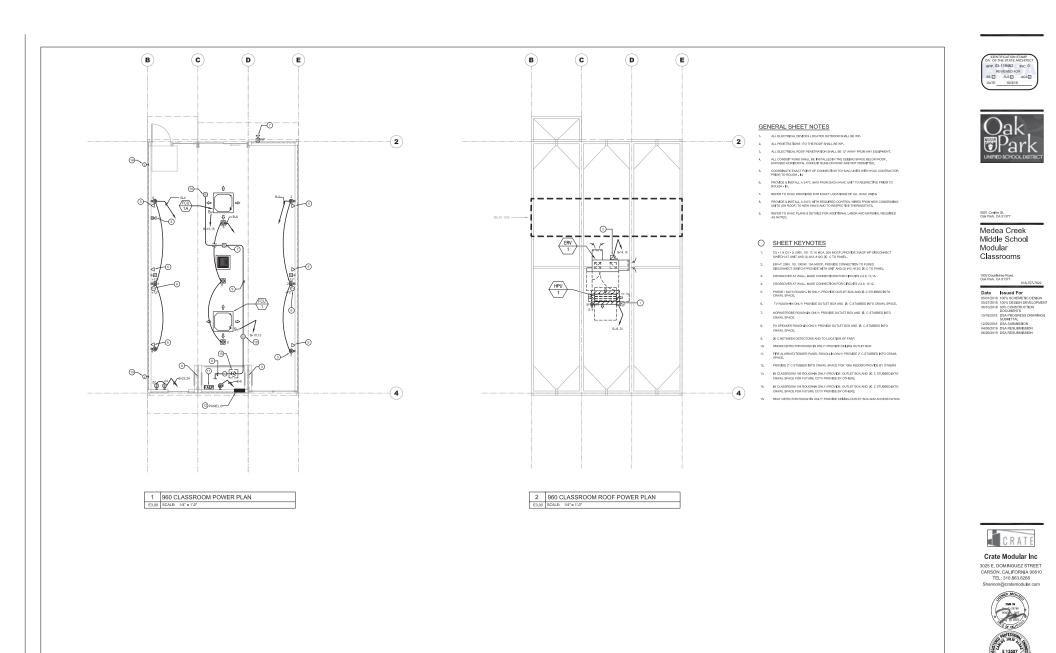


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960 CLASSROOM LIGHTING PLAN PANEL SCHEDULES, & DETAILS





E2.02

960 CLASSROOM POWER PLANS

ATES. INC

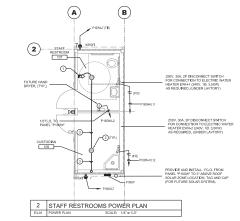




8801 Conifer St. Oak Park, CA 91377 Medea Creek Middle School

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Classrooms



PANEL: P160W			12	0/	24	ю	٧	OL	.Т,	1	Ρ	Ή,	3	W 125 AMP CO	OPPE	ER B	US							
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.00	ATION	STAP	F RESTROOM													65	AMPS							
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к	VAL		LOAD DESCRIPTION		out	LET	a	жr	8921	COT 1997 OUTLETS			CUT BRIT OUTLETS			OUTLETS			OUTLETS		LOAD DESCRIPTION		OAD	
• 1	LINE A	UNE B			2	R			A	A	P		R			UNE A	LINE B							
1	80		RESTROOMS LTG					2	20	:0	1				FUTUER HAND DRAYER	1200								
3		60	OUTDOOR LTG		Т	Т		1	20	20	1				EF-3		64	П						
5			SPARE					1	20	:0	1				EF-4	64								
7		360	OUTDOOR RECEPTACLE		Т	2	Т	1	20	10	1				SPARE			П						
9	1750		ELECTRICAL WATER HEATER					2	30	40	2	•			ELECTRICAL WATER HEATER	3750								
11		1750			Т	Т		1	1	L	1	•					3750	T						
13			SPACE					T		-					SPACE									
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-	1830	2170	SUB - TOTALS			-	_					-		-	SUB - TOTALS	5014	3814	<b>—</b>						
iOTI	E:1.														LINE TOTALS:	6844	5984							
	2.														LCL ADDER	938	938							
	3.														TOTAL VA PER PHASE	7782	6922							
	4.														LINE AMPS	65	58	1						

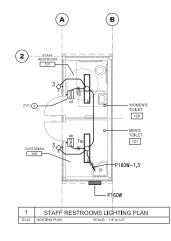
# O SHEET KEYNOTES

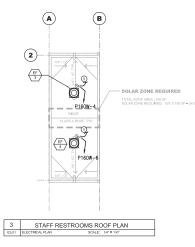
- HORNISTROBE ROUGH IN ONLY: PROVIDE OUTLET BOX AND ½- C STUBBED INTO CRAWLISPACE.
- 2. SMOKE DETECTOR ROUGH IN ONLY; PROVIDE CELLING OUTLET BOX.
- X: C.O. BETWEEN DETECTORS AND X: C STUBBED INTO CRAWL SPACE.
   WALL MOUNTED DUAL RELAY OCCUPANCY SENSOR. SET THE LIGHTING RELAY DP SWITCH FOR S MUNTES DELAY, AND SET THE FAN RELAY DP SWITCH FOR IS MUNTES DELAY.
- 5 MINUTES DELAY, AND SET THE PAN RELAY DIP SW 5. CONNECT EXHAUST FAN TO LIGHT SWITCH.

# Dw2 LIGHTING CONTROL SWITCH



LUMINAIR SCHEDULE										
TYPE	WAT	TAGE	DESCRIPTION	CATALOG NUMPER	VOLTAGE					
THPE	LAWP	FIXTURE	DESCRIPTION	CRIALOG NUMBER	VOLING					
D	LED	4007	# LED WRAPARCUND, 4800 LM 4000K	UTHONIA SBL4 48L MIVOLTERIMILEP	120					
Е	LED	SOW	EXTERIOR WALL PACK WITH BUILT IN PHOTOCELL	UTHONIA TWR1P240KM/QLTPE	120					







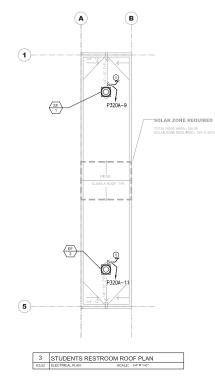


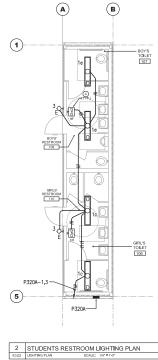
3025 E. DOMINGUEZ STREET CARSON, CALIFORNIA 90810 TEL: 310.863.8268 Shannon@cratemodular.com



TO BE AN A CONTRACT OF CONTRAC











- HORNISTROBE ROUGH IN ONLY: PROVIDE OUTLET BOX AND IA: C STUBBED INTO CRIMIL SPACE.
- 2. SMOKE DETECTOR ROUGH IN ONLY: PROVIDE CEILING OUTLET BOX.
- 3. X° C.O. BETWEEN DETECTORS AND Xr C STUBBED INTO CRAWL SPACE.
- 4. WALL MOLINTED DUAL RELAY OCCUPANCY SENSOR, SET THE LIGHTING RELAY DP SWITCH FOR 5 MINUTES DELAY, AND SET THE FAN RELAY DIP SWITCH FOR 15 MINUTES DELAY.
- 5. CONNECT EXHAUST FAN TO LIGHT SMITCH.

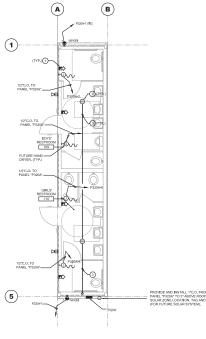
# Dw2 LIGHTING CONTROL SWITCH

		-
Product	Controls	

uct Controls			DIP Switch Settings						
↓ . H . J	2 * * 10000	OII/OFF Buttons telay 1 telay 2 Utrascric Sensitivity Acjustment Trimpot DIP Switches	Time Delay 1 2 Tes/20 min 4 4 5 minutes 4 4 30 minutes 4 4 Welk-Through 3	Norther Party	99			n 1 Polay	
		Utrasonic Cones     Detection LEDs     Red = PIR	Enabled +	Trigger Mode					6
	~1	Genera - Ultrasonic				614		4	4.
			PIR Sensitivity 4	Option A		616		4	
	PIRLens		Los, 50% †		PR.	PR	218	t	
			High J 4	Option C	610	8.0	5ih	1	ŧ.
			+ =ON & =OFF						

LUMINAIR SCHEDULE										
TYPE	LAMP FROURE DESCRIPTION		DESCRIPTION	CATALOG NUMBER	VOLTAGE					
D	LED	4011	4" LED WRAPARDUND, 4000 UM 4000K	UTHONIA SEL4 48L MAOLTE10MLCP	120					
E	LED	3017	EXTERIOR WALL PACK WITH BUILT IN PHOTOCELL	UTHONIA TWR1 P240KM/OLT PE	120					

P	ANEI	.: P:	320A	120	$\frac{1}{2}$	4(	) \	0	LT,	1	Р	ΡH,	, 3	W 125 AMP CO	OPPE	ER B	<b>U</b> :
					(BA)	а.	юн	AVE8	90L"-I	жB	REA	KERS	3)		M	AIN:	70
LC	CATION	RES'	TROOM STUDENTS												22	AMPS	
мс	UNTING:	SURF/	ACE FLUSH STANDING			A	d,	C.=	10,	00	DA			LOAD	5.6	kVA.	
ж		LOAD	LOAD DESCRIPTION		uπJ				CA		0	une		LOAD DESCRIPTION	VA L		
*	LINE	LINE E	RESTROOMS LTG	0	R	L.	P 1	A 20	1 20	P 1	L	R	0	FUTUER HAND DRAYER	1200	LINE B	$\mathbb{H}$
3	10		OUTDOOR LIGHTING		+	H	1	20		-	-	+	+	FUTUER HAND DRAYER	1200	1200	
5	-		SPARE		-	-	1	20	:0	1		+		FUTUER HAND DRAYER	1200	1200	H
7	-	360	OUTDOOR OUTLETS		2	t	1	20	20	1			t	FUTUER HAND DRAYER		1200	Ħ
9	7		EF-1				1	20	:0	1				SPARE			
11		74	EF-2				1	20	20	1				SPARE			
13			SPACE				1	20	10	1				SPACE			Π
15			SPACE				1	20	10	1				SPACE			
	23	494	SUB - TOTALS											SUB - TOTALS	2400	2400	
NO	TE: 1.													LINE TOTALS:	2634	2894	
	2													LCL ADDER	40		
	3.													TOTAL VA PER PHASE	2674	2894	
	4.													LINE AMPS	22	24	1



1 STUDENTS RESTROOM POWER PLAN
E3.02 LIGHTING PLAN
SCALE: 1/4"= 1/4"

Middle School Modular Classrooms 1002 Doublatree Road, Oak Park, CA 91377 818-707-7922 \_

Medea Creek

5801 Conifer St. Oak Park, CA 91377

Date Issued For 
 Date
 Issued For

 06012016
 100% SCHEMETC DESKIN

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 100% DESKIN DEVELOPMENT DOCUMENTS

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 DEA RESUBMISSION



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018-03780-00 40' STUDENT RESTROOM LIGHTING PLAN & POWER PLAN, PANEL SCHEDULES, & DETAILS

E3.02

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r Inc 3025 E. DOMINGUEZ STREET CARSON, CALIFORNIA 90810 TEL: 310.863.8268 Shannon@cratemodular.com



2018-03780-000 ELECTRICAL T-24 ENERGY COMPLIANCE FORMS CLASSROOM BUILDING



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