

FAN SCHEDULE											
SYM	MANUFACTURER AND MODEL NO.	SERVICE	LOCATION	DUTY			ELECTRICAL		WEIGHT (LB)	REMARKS	
				CFM	ESP (7'W.G.)	RPM	INPUT WATTS	VOLTS			PHASE
1	COOK 100G100H	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 14S002).
 2. INTERLOCK EXHAUST FAN TO LIGHT SWITCH, PROVIDE 5 MINUTES DELAY.
 3. PROVIDE EXHAUST FANS WITH FAN SPEED CONTROLLER.

INDOOR FAN/COIL UNIT SCHEDULE

TAG	SERVICE	SPACE SIZE	MFR	MODEL No.	RERUN TOYS	RER ON (CFM)	SUPPLY FAN DATA		DX COOLING COIL DATA		HEATING DATA		UNIT CHARACTERISTICS		NOTES/ACCESSORIES
							AIR FLOW (CFM)	TOTAL (BHP)	TOTAL (BHP)	OUTPUT (BHP)	VOLTAGE (V-φ-Hz)	UNIT FLA	OPERATING WEIGHT (LBS)		
FCU1	HPL1	900	MITSUBISHI	PLPY-EP30NEM1AE	2.5	0	625	0.12	30,000	34,000	208-140	0.45	60	1 THRU 7	
FCU1A	HPL1A	900	MITSUBISHI	PLPY-EP30NEM1AE	2.5	0	625	0.12	30,000	34,000	208-140	0.45	60	1 THRU 7	

- NOTES/ACCESSORIES:**
1. CEILING MOUNTED "CASSETTE" TYPE DUCTLESS UNIT, SEE DETAIL 02S002.
 2. SIDE PANEL ACCESS MOTOR.
 3. REFRIGERANT AND DRAIN CONNECTIONS.
 4. BUILT-IN CONDENSATE PUMP.
 5. DISCONNECT BY ELECTRICAL CONTRACTOR.
 6. REAR NET.
 7. "MITSUBISHI" WALL MOUNTED THERMOSTAT WITH TOUCH SCREEN MODEL PAR-U1M0DUK.

OUTDOOR ROOF MOUNTED HEAT PUMP UNIT SCHEDULE

TAG	SERVICE	SPACE SIZE	LOCATION	MFR	MODEL No.	BEER	ELECTRICAL DATA				WEIGHT (LBS)	NOTES/ACCESSORIES
							MINIMUM TONS	VOLTAGE (V-φ-Hz)	BDA	MOOP		
HPL1	FCU1 & FCU1A	900	ROOF	MITSUBISHI	PUMY-FP6N00M1	20.2	2.5	208-140	36	42	325	1 THRU 7

- NOTES/ACCESSORIES:**
1. UNIT CAPACITY SHALL BE BASED ON ARIZ CONDITIONS.
 2. 80° CONDENSING TEMPERATURE.
 3. R410A REFRIGERANT.
 4. INVERTER DRIVER (VARIABLE SPEED) CONTROLLER.
 5. LOW AMBIENT CONTROL DOWN TO 0°.
 6. STABLE PHASE OUTDOOR UNIT.
 7. EQUIPMENT BAILS.
 8. FOR ANCHORAGE SEE DETAIL #14-C5002.

OUTDOOR AIR SCHEDULE

SPACE DESIGNATION	AREA BASIS			OCCUPANCY BASIS			REQUIRED VENTILATION		DEMAND CONTROL VENTILATION RATE		SERVICE
	FLOOR AREA (SF)	CFM PER SF	ICM CFM BY AREA	OCCUPANCY DENSITY	OCCUPANCY	ICM CFM BY PERSON	PER PERSON	PER PERSON	PER PERSON	PER PERSON	
CLASSROOM-900	863	0.15	130	43	20	15	645	645	130	UNIT 900	

- NOTES:**
1. AN AIR BALANCE TEST WILL BE REQUIRED TO VERIFY THE PROPER AMOUNT OF OUTSIDE AIR TO COMPLY WITH THE T-54 CALCULATIONS, BEFORE FINAL APPROVAL CONSIDERED BY THE OWNER/DO OR MODULAR INSTALLER.
 2. SPACE OUTSIDE AIR REQUIREMENTS BASED ON CALIFORNIA ENERGY CODE 2011 T-54 - SECTION 120.1(1)(1), IECC 2018 F001.
 3. DEMAND CONTROL VENTILATION RATE BASED ON AREA COMPONENT OF 2011 CALIFORNIA RESIDENTIAL CODE, TABLE 402.1 (0.12 CFM PER SQUARE FOOT).
 4. OCCUPANCY VALUE IS ONE HALF OF THE MAXIMUM OCCUPANT LOAD ASSUMED FOR BUREAU PURPOSES IN THE CGC (2011 CGC - TABLE 1004.1.2) - 2011 T24; SECTION 120.1(1)(2).

OUTDOOR ROOF MOUNTED ENERGY RECOVERY UNIT SCHEDULE

TAG	SERVICE	SPACE SIZE	MANUFACTURER	MODEL	PERFORMANCE DATA						MECHANISM DATA				WEIGHT (LBS)	
					AIR FLOW CFM	SEN AIRFLOW CFM	ESP IN W	MOTOR HP	WATTS	TEMP EFF%	TOTAL EFF% HEATED/COOLED	POWER V-φ-Hz	UNIT BDA	UNIT MOOP		NOTES/ACCESSORIES
ERV1	FCU1 & 1A	900	RENEWAIR	HEVRT	300	100	1.25	0.75	1300	74	6555	208-140	4.50	15.00	1 THRU 8	450

- NOTES/ACCESSORIES:**
1. FUSED DISCONNECT.
 2. ROOF MOUNTED, SEE DETAIL #14-A0302.
 3. ECM MOTOR.
 4. "CANFAP" ADAPTER CURB MODEL 1002766-01AFA.
 5. "CANFAP" CONCENTRIC ADAPTER MODEL 18151-00.
 6. ICM2 MOTION SENSOR.
 7. CO2/CAN CARBON DIOXIDE SENSOR.
 8. FILTERS - MERV 13.

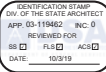
AIR DISTRIBUTION SCHEDULE

TAG	SERVICE	MOUNTING	MFR	MODEL No.	MODULE SIZE	FRAME STYLE	DAMPEN	NOTES/ACCESSORIES
S1	CONCENTRIC	CEILING	METALAIR	DMF-CCS-1	26-7/8" x 26-7/8" WITH 21 1/4" SUPPLY NECK 19" x 19" RETURN NECK	1	FCU1 & 1A	1 AND 2

- NOTES/ACCESSORIES:**
1. FINISH - WHITE
 2. SURFACE MOUNT

AIR CONDITIONING CONDENSATE PIPE SIZING

AC TONS	MINIMUM DRAIN SIZE
0-20	1"
21-40	1-1/4"
41-80	1-1/2"
81-100	2"
101-200	3"
201+	4"



501 Corlier St.
Oak Park, CA 91377

Medea Creek
Middle School
Modular
Classrooms

1002 Doubleline Road,
Oak Park, CA 91377
818-707-7022

Date Issued For
06/01/2018 100% SCHEMATIC DESIGN
05/07/2018 100% DESIGN DEVELOPMENT
06/10/2018 80% CONSTRUCTION DOCUMENTS
10/18/2018 ISA PROGRESS DRAWINGS SUBMITTAL
12/20/2018 ISA SUBMISSION
04/05/2019 ISA RESUBMISSION
06/20/2019 ISA RESUBMISSION



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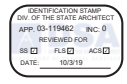


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HVAC SCHEDULES

M1.02



5801 Corbin St.
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Medea Creek Middle School Modular Classrooms

1022 Doubleline Road,
Oak Park, CA 91377 818-707-7022

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06/20/2019 DSA RESUBMISSION



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960
HVAC FLOOR & ROOF PLANS & DETAILS

M2.01

GENERAL SHEET NOTES

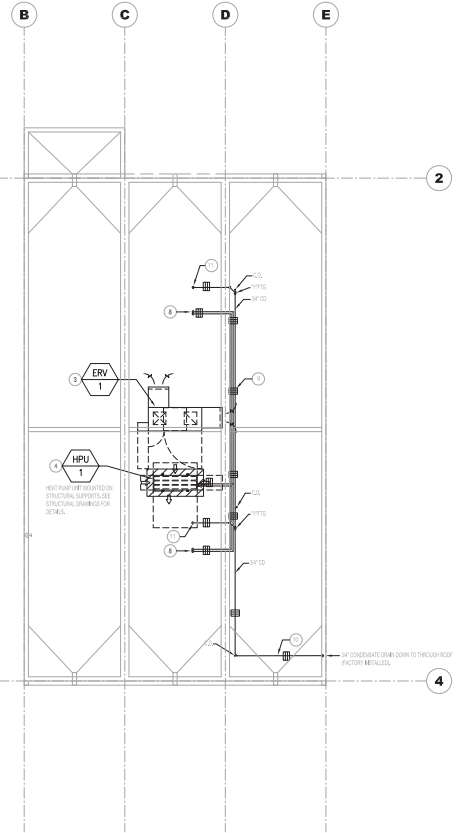
1. ANYTHING NOT NOTED AS EXISTING IS TO BE FURNISHED AND INSTALLED AS PART OF THIS PROJECT.
2. REFER TO DRAWINGS AND PROJECT SPECIFICATIONS OF OTHER DISCIPLINES FOR ADDITIONAL PROJECT INFORMATION AND REQUIREMENTS. NOTIFY ENGINEER OF ANY CONFLICTS BETWEEN THE INFORMATION PRESENTED AND FIELD CONDITIONS.
3. LISTED ABOVE CEILING CLEARANCES EXIST. COORDINATE LOCATION AND ELEVATION OF MECHANICAL WORK WITH ALL DUCTWORK, SPRINKLERS, LIGHT FIXTURES, AND OTHER CEILING BUILT-IN FEATURES. CONTACT SUPPLIER/VEHICLE MANUFACTURER IMMEDIATELY SHOULD ANY CONFLICT ARISE.

SHEET KEYNOTES

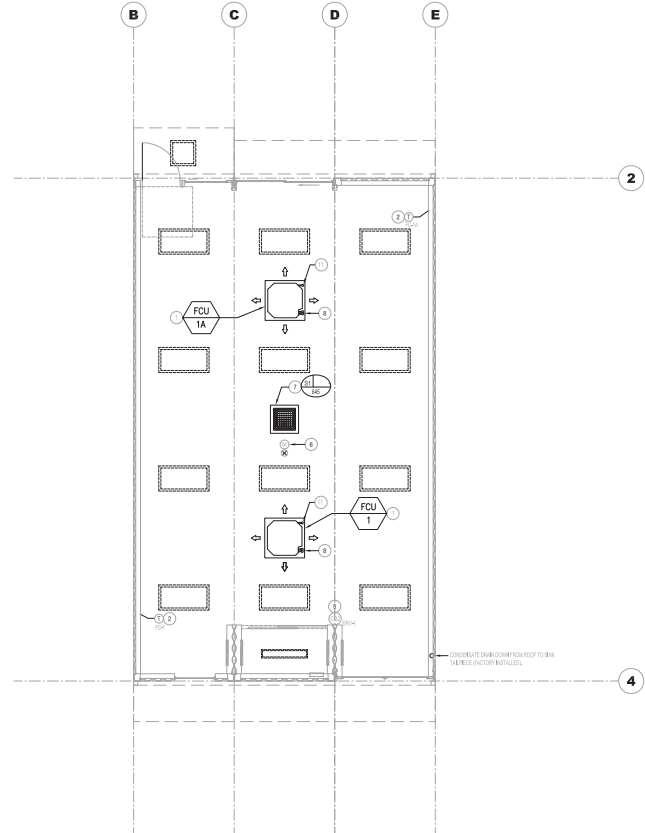
1. CEILING MOUNTED CASSETTE TYPE DUCTLESS UNIT.
2. THROUGHPUT MOUNTED ON WALL AT 48" AFF WALL (FACTORY INSTALLED).
3. ERV ON ROOF WITH DOWNFLOW CURB. ROOF BUCKHAM DOWN THROUGH ROOF TO DIFFUSERS AS INDICATED (SITE INSTALLED).
4. ROOF MOUNTED HEAT PUMP UNIT (SITE INSTALLED).
5. CO2 SENSOR MOUNTED ON WALL AT 48" AFF W/A (FACTORY INSTALLED).
6. CEILING MOUNTED OCCUPANCY SENSOR FOR CONTROL OF ERV-1 (FACTORY INSTALLED).
7. EXTERIOR DUCTWORK FROM CONCRETE PERIMETER TO ROOF THROUGH ROOF FACTORY INSTALLED.
8. REFER MANUFACTURER PERFORM THROUGH ROOF EXTERIOR ACROSS ROOF TO ROOF HEAT PUMP UNIT (SITE INSTALLED). SEE REPRESENTATIVE PERFORMER MANUFACTURER'S RECOMMENDATION FACTORY TO PROVIDE GUT SLEEVES FOR PERIM.
9. REFER SUBMITTAL FOR SUPPORTS ON ROOF.
10. INSULATED CONCRETE PERIM ON ROOF.
11. CO FURNISH CONCRETE PERIM THROUGH ROOF EXTERIOR CONCRETE DOWN THROUGH ROOF.

CONTROL NOTES

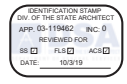
1. ENERGY RECOVERY UNIT (ERV-1) TO BE CONTROLLED ON UNIT THROUGH OCCUPANCY SENSOR.
2. UNPAID OCCUPIED SCHEDULE, ERV-1 TO PROVIDE VENTILATION OUTSIDE AIRFLOW TO SPACE, REFER TO SCHEDULE ON SHEET 40.
3. UNPAID ONPAID IN CO2 LEVEL DETECTED BY CO2 SENSOR, ERV-1 PAID TO MODULATE FRESH VENTILATION OUTSIDE AIR FLOW DOWN TO DEMAND CONTROL VENTILATION AIRFLOW. REFER TO SCHEDULE ON SHEET 40.
4. REMOVE FACTORY INSTALLED REVERSING AND REPLACE WITH POTENTIOMETER TO ALLOW FOR CONTROL SEQUENCE PROGRAMMED ABOVE.



2 MECHANICAL ROOF PLAN
SCALE: 1/4" = 1'-0"
↑



1 MECHANICAL FLOOR PLAN
SCALE: 1/4" = 1'-0"
↑

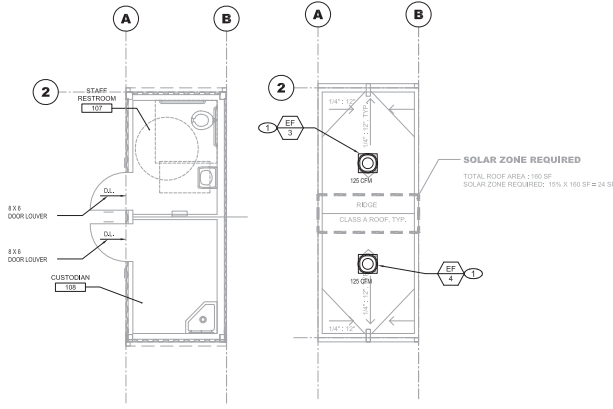


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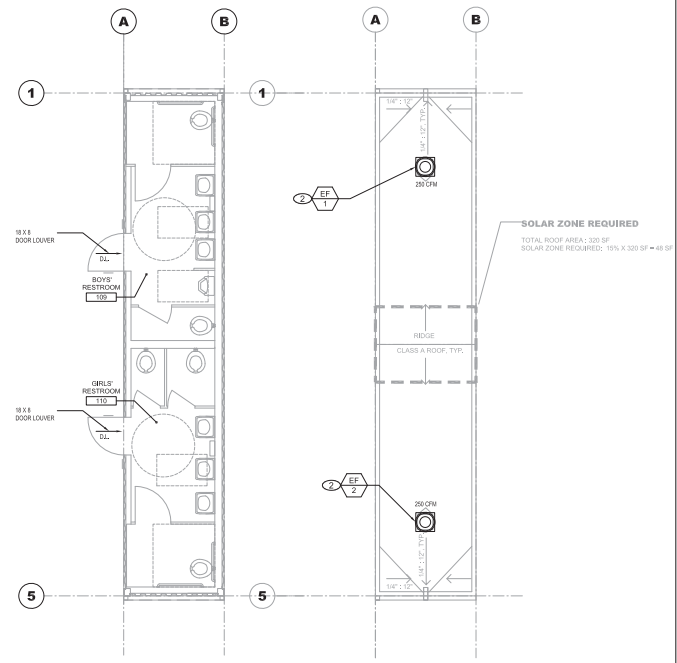
Medea Creek Middle School Modular Classrooms

1002 Doubletree Road,
Oak Park, CA 91377 818-707-7022

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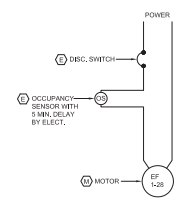


2 MECHANICAL STAFF RESTROOM PLAN
REV 19 SCALE: 1/8" = 1'-0"



1 MECHANICAL STUDENT RESTROOM PLAN
REV 19 SCALE: 1/8" = 1'-0"

- CONSTRUCTION KEY NOTES**
- 1 PROVIDE NEW ROOFTOP EXHAUST FAN WITH ALL RELATED ACCESSORIES. CONNECT 8" Ø DUCT TO THE NEW 10"x10" ANEMOSTAT 3SHD CEILING REGISTER BELOW.
 - 2 PROVIDE NEW ROOFTOP EXHAUST FAN WITH ALL RELATED ACCESSORIES. CONNECT 10" Ø DUCT TO THE NEW 12"x12" ANEMOSTAT 3SHD CEILING REGISTER BELOW.



3 MECHANICAL EXHAUST WIRING DIAGRAM
REV 19 SCALE: 1/8" = 1'-0"



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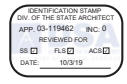


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20 40
HVAC STAFF AND STUDENT
REST ROOM
PLANS AND DETAILS

M3.01



5801 Corlier St, Oak Park, CA 91377
Medea Creek Middle School
Classrooms

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Project Name: Medea Creek Middle School Classrooms B & C
Project Address: 1002 Doubletree Road Oak Park 91377
Completion Date: 12/18/2018
NCC-CPP ARCH-DET-1 SECTION START

Project Name: Medea Creek Middle School Classrooms B & C
Project Address: 1002 Doubletree Road Oak Park 91377
Completion Date: 12/18/2018
NCC-CPP ARCH-DET-2 SECTION START

Project Name: Medea Creek Middle School Classrooms B & C
Project Address: 1002 Doubletree Road Oak Park 91377
Completion Date: 12/18/2018
NCC-CPP ARCH-DET-3 SECTION START

Project Name: Medea Creek Middle School Classrooms B & C
Project Address: 1002 Doubletree Road Oak Park 91377
Completion Date: 12/18/2018
NCC-CPP ARCH-DET-4 SECTION START

Project Name: Medea Creek Middle School Classrooms B & C
Project Address: 1002 Doubletree Road Oak Park 91377
Completion Date: 12/18/2018
NCC-CPP ARCH-DET-5 SECTION START

Project Name: Medea Creek Middle School Classrooms B & C
Project Address: 1002 Doubletree Road Oak Park 91377
Completion Date: 12/18/2018
NCC-CPP ARCH-DET-6 SECTION START

Project Name: Medea Creek Middle School Classrooms B & C
Project Address: 1002 Doubletree Road Oak Park 91377
Completion Date: 12/18/2018
NCC-CPP ARCH-DET-7 SECTION START

Project Name: Medea Creek Middle School Classrooms B & C
Project Address: 1002 Doubletree Road Oak Park 91377
Completion Date: 12/18/2018
NCC-CPP ARCH-DET-8 SECTION START

Project Name: Medea Creek Middle School Classrooms B & C
Project Address: 1002 Doubletree Road Oak Park 91377
Completion Date: 12/18/2018
NCC-CPP ARCH-DET-9 SECTION START

Project Name: Medea Creek Middle School Classrooms B & C
Project Address: 1002 Doubletree Road Oak Park 91377
Completion Date: 12/18/2018
NCC-CPP ARCH-DET-10 SECTION START

Project Name: Medea Creek Middle School Classrooms B & C
Project Address: 1002 Doubletree Road Oak Park 91377
Completion Date: 12/18/2018
NCC-CPP ARCH-DET-11 SECTION START

Project Name: Medea Creek Middle School Classrooms B & C
Project Address: 1002 Doubletree Road Oak Park 91377
Completion Date: 12/18/2018
NCC-CPP ARCH-DET-12 SECTION START

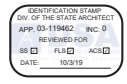


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2018-07/08/200

HVAC TITLE 24 FORMS

M4.02



501 Corlier St, Oak Park, CA 91377
Medea Creek Middle School Modular Classrooms

1002 Doubletree Road, Oak Park, CA 91377 815-707-7022
Date Issued For: 06/01/2018 100% SCHEMATIC DESIGN
05/07/2018 100% DESIGN DEVELOPMENT
06/10/2018 50% CONSTRUCTION DOCUMENTS
05/08/2018 0% SUBMITTALS
12/20/2018 0% SUBMISSION
06/02/2019 0% RESUBMISSION
06/02/2019 0% RESUBMISSION

Project Name: Medea Creek Middle School Classroom # 208 & 209
Project Address: 1002 Doubletree Road Oak Park CA 91377
Contractor: [Redacted]
Design/Construct: [Redacted]

SECTION 05-1000 - FINISHES

Section Name	Material Type	Finish Type	Manufacturer	Grade	Color	Finish	Notes
Walls	Acoustic Tile	Acoustic Tile	Acoustic Tile	Grade	Color	Finish	Notes
Floors	Acoustic Tile	Acoustic Tile	Acoustic Tile	Grade	Color	Finish	Notes

SECTION 05-2000 - PAINTS AND COATINGS

Section Name	Material Type	Finish Type	Manufacturer	Grade	Color	Finish	Notes
Walls	Acoustic Tile	Acoustic Tile	Acoustic Tile	Grade	Color	Finish	Notes
Floors	Acoustic Tile	Acoustic Tile	Acoustic Tile	Grade	Color	Finish	Notes

Project Name: Medea Creek Middle School Classroom # 208 & 209
Project Address: 1002 Doubletree Road Oak Park CA 91377
Contractor: [Redacted]
Design/Construct: [Redacted]

SECTION 05-3000 - GLASS AND GLAZING

Section Name	Material Type	Finish Type	Manufacturer	Grade	Color	Finish	Notes
Walls	Acoustic Tile	Acoustic Tile	Acoustic Tile	Grade	Color	Finish	Notes
Floors	Acoustic Tile	Acoustic Tile	Acoustic Tile	Grade	Color	Finish	Notes

Project Name: Medea Creek Middle School Classroom # 208 & 209
Project Address: 1002 Doubletree Road Oak Park CA 91377
Contractor: [Redacted]
Design/Construct: [Redacted]

SECTION 05-4000 - METALS

Section Name	Material Type	Finish Type	Manufacturer	Grade	Color	Finish	Notes
Walls	Acoustic Tile	Acoustic Tile	Acoustic Tile	Grade	Color	Finish	Notes
Floors	Acoustic Tile	Acoustic Tile	Acoustic Tile	Grade	Color	Finish	Notes

Project Name: Medea Creek Middle School Classroom # 208 & 209
Project Address: 1002 Doubletree Road Oak Park CA 91377
Contractor: [Redacted]
Design/Construct: [Redacted]

SECTION 05-5000 - MECHANICAL

Section Name	Material Type	Finish Type	Manufacturer	Grade	Color	Finish	Notes
Walls	Acoustic Tile	Acoustic Tile	Acoustic Tile	Grade	Color	Finish	Notes
Floors	Acoustic Tile	Acoustic Tile	Acoustic Tile	Grade	Color	Finish	Notes

Project Name: Medea Creek Middle School Classroom # 208 & 209
Project Address: 1002 Doubletree Road Oak Park CA 91377
Contractor: [Redacted]
Design/Construct: [Redacted]

SECTION 05-6000 - ELECTRICAL

Section Name	Material Type	Finish Type	Manufacturer	Grade	Color	Finish	Notes
Walls	Acoustic Tile	Acoustic Tile	Acoustic Tile	Grade	Color	Finish	Notes
Floors	Acoustic Tile	Acoustic Tile	Acoustic Tile	Grade	Color	Finish	Notes

Project Name: Medea Creek Middle School Classroom # 208 & 209
Project Address: 1002 Doubletree Road Oak Park CA 91377
Contractor: [Redacted]
Design/Construct: [Redacted]

SECTION 05-7000 - PLUMBING

Section Name	Material Type	Finish Type	Manufacturer	Grade	Color	Finish	Notes
Walls	Acoustic Tile	Acoustic Tile	Acoustic Tile	Grade	Color	Finish	Notes
Floors	Acoustic Tile	Acoustic Tile	Acoustic Tile	Grade	Color	Finish	Notes

Project Name: Medea Creek Middle School Classroom # 208 & 209
Project Address: 1002 Doubletree Road Oak Park CA 91377
Contractor: [Redacted]
Design/Construct: [Redacted]

SECTION 05-8000 - HEAVY CONSTRUCTION

Section Name	Material Type	Finish Type	Manufacturer	Grade	Color	Finish	Notes
Walls	Acoustic Tile	Acoustic Tile	Acoustic Tile	Grade	Color	Finish	Notes
Floors	Acoustic Tile	Acoustic Tile	Acoustic Tile	Grade	Color	Finish	Notes

Project Name: Medea Creek Middle School Classroom # 208 & 209
Project Address: 1002 Doubletree Road Oak Park CA 91377
Contractor: [Redacted]
Design/Construct: [Redacted]

SECTION 05-9000 - FURNITURE

Section Name	Material Type	Finish Type	Manufacturer	Grade	Color	Finish	Notes
Walls	Acoustic Tile	Acoustic Tile	Acoustic Tile	Grade	Color	Finish	Notes
Floors	Acoustic Tile	Acoustic Tile	Acoustic Tile	Grade	Color	Finish	Notes

Project Name: Medea Creek Middle School Classroom # 208 & 209
Project Address: 1002 Doubletree Road Oak Park CA 91377
Contractor: [Redacted]
Design/Construct: [Redacted]

SECTION 06-0000 - SPECIALTIES

Section Name	Material Type	Finish Type	Manufacturer	Grade	Color	Finish	Notes
Walls	Acoustic Tile	Acoustic Tile	Acoustic Tile	Grade	Color	Finish	Notes
Floors	Acoustic Tile	Acoustic Tile	Acoustic Tile	Grade	Color	Finish	Notes

Project Name: Medea Creek Middle School Classroom # 208 & 209
Project Address: 1002 Doubletree Road Oak Park CA 91377
Contractor: [Redacted]
Design/Construct: [Redacted]

SECTION 06-1000 - PARTITIONS

Section Name	Material Type	Finish Type	Manufacturer	Grade	Color	Finish	Notes
Walls	Acoustic Tile	Acoustic Tile	Acoustic Tile	Grade	Color	Finish	Notes
Floors	Acoustic Tile	Acoustic Tile	Acoustic Tile	Grade	Color	Finish	Notes

Project Name: Medea Creek Middle School Classroom # 208 & 209
Project Address: 1002 Doubletree Road Oak Park CA 91377
Contractor: [Redacted]
Design/Construct: [Redacted]

SECTION 06-2000 - DOORS AND WINDOWS

Section Name	Material Type	Finish Type	Manufacturer	Grade	Color	Finish	Notes
Walls	Acoustic Tile	Acoustic Tile	Acoustic Tile	Grade	Color	Finish	Notes
Floors	Acoustic Tile	Acoustic Tile	Acoustic Tile	Grade	Color	Finish	Notes

Project Name: Medea Creek Middle School Classroom # 208 & 209
Project Address: 1002 Doubletree Road Oak Park CA 91377
Contractor: [Redacted]
Design/Construct: [Redacted]

SECTION 06-3000 - ELEVATORS

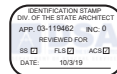
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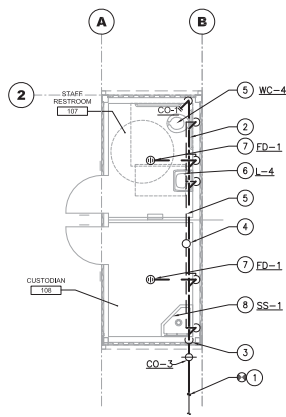


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12/20/2018	DSA SUBMISSION
04/05/2019	DSA RESUBMISSION
06/20/2019	DSA RESUBMISSION



1 STAFF RESTROOMS LAYOUT 2 (WASTE AND VENT)
P2.01 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.
 - 4" WASTE LINE BELOW FLOOR.
 - 4" WASTE LINE DOWN TO BELOW GRADE.
 - 4" VENT THROUGH ROOF.
 - INSTALL NEW WATER CLOSET WITH ALL RELATED ACCESSORIES. RUN 4" W. (4 FU) DOWN, 2" V. (2 FU) UP. INSTALL WCO ABOVE FIXTURE.
 - 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 PANEL. DISCHARGE 1/2" BELOW FLOOR TO FLOOR DRAIN.
 - 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.
 - INSTALL SERVICE SINK WITH ALL RELATED ACCESSORIES. RUN 3" W. (3 FU) DOWN, 2" V. (3 FU) UP.

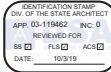


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201805010000
**20' MODULE
WASTE AND VENT
FLOOR PLANS**

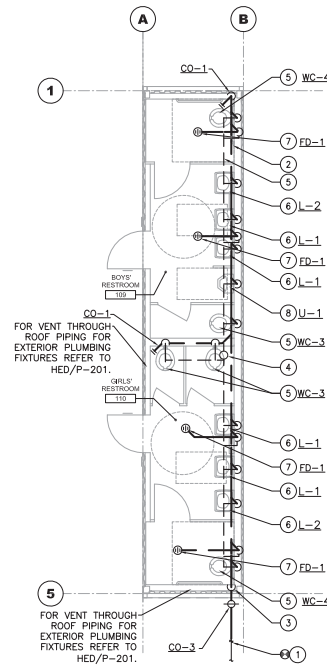


5801 Corbin St.
Oak Park, CA 91377

**Medea Creek Middle School
Modular Classrooms**

1022 Doubleline Road,
Oak Park, CA 91377 818-707-7022

Date	Issued For
06/01/2018	100% SCHEMATIC DESIGN
05/07/2018	100% DESIGN DEVELOPMENT
06/10/2018	80% CONSTRUCTION DOCUMENTS
10/18/2018	ISA PROGRESS DRAWINGS SUBMITTAL
12/20/2018	ISA SUBMISSION
04/05/2019	ISA RESUBMISSION
06/20/2019	ISA RESUBMISSION



KEY NOTES

- 1 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 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 PANEL. DISCHARGE 1/2" BELOW FLOOR TO FLOOR DRAIN.
- 7 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.

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



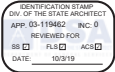
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**40' MODULE
WASTE AND VENT
FLOOR PLANS**

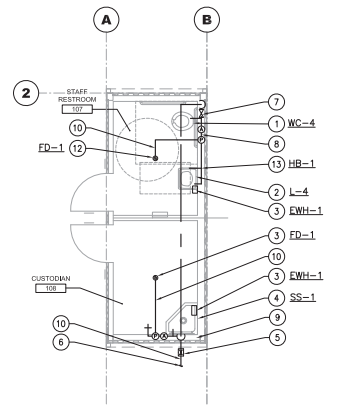


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**Medea Creek
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Classrooms**

1022 Doubleline Road,
Oak Park, CA 91377 818-707-7022

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10/18/2018	DSA PROGRESS DRAWINGS SUBMITTAL
12/20/2018	DSA SUBMISSION
04/05/2019	DSA RESUBMISSION
06/20/2019	DSA 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.
- 4 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.
- 6 CONNECT WATER LINE TO WATER METER OR PRESSURE REGULATOR VALVE. EXTEND LINE AS NECESSARY.
- 7 WATER HEADER ISOLATION VALVES IN ACCESS PANEL. MANUF. ELMODOR MODEL DW-AKL, 16"x20" FOR PRIVACY STAGGER ACCESS PANEL.
- 8 INSTALL WATER HAMMER ARRESTOR WITH ALL RELATED ACCESSORIES AND TRAP PRIMER CONNECTION BEHIND LOCKABLE ACCESS PANEL.
- 9 COLD WATER UP FROM BELOW FLOOR.
- 10 WATER LINE RUN BELOW FLOOR.
- 11 WATER HEADERS RUN IN WALL.
- 12 INSTALL FLOOR DRAIN WITH ALL RELATED ACCESSORIES. PROVIDE TRAP PRIMER CONNECTION.
- 13 INSTALL HOSE BIBB WITH ALL RELATED ACCESSORIES. RUN 3/4" CW (2-5FU) DOWN. PROVIDE VACUUM BREAKER.



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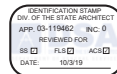


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2019-0000000000
**20' MODULE
COLD AND
HOT WATER
FLOOR PLANS**

P3.01

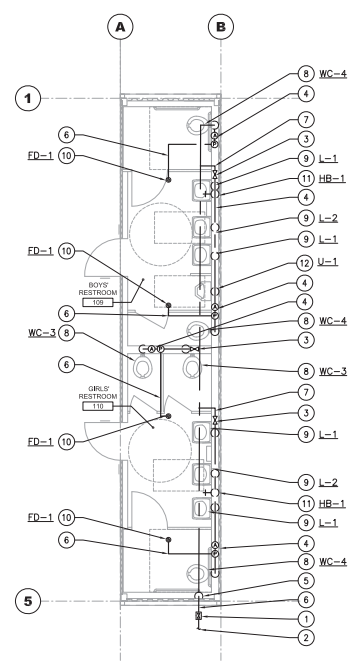


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Oak Park, CA 91377

**Medea Creek
Middle School
Modular
Classrooms**

1022 Doubleline Road,
Oak Park, CA 91377 818-707-7022

Date	Issued For
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05/07/2018	100% DESIGN DEVELOPMENT
06/10/2018	80% CONSTRUCTION DOCUMENTS
10/18/2018	DSA PROGRESS DRAWINGS SUBMITTAL
12/20/2018	DSA SUBMISSION
04/05/2019	DSA RESUBMISSION
06/20/2019	DSA RESUBMISSION



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.
- 2 CONNECT WATER LINE TO WATER METER OR PRESSURE REGULATOR VALVE EXTEND LINE AS NECESSARY.
- 3 WATER HEADER ISOLATION VALVES IN ACCESS PANEL. MANUF. ELMODOR 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 FLOOR.
- 6 WATER LINE RUN BELOW FLOOR.
- 7 WATER HEADERS RUN IN WALL.
- 8 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.
- 11 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 RESTROOM OPTION 2 STUDENTS ONLY LAYOUT 2 (COLD WATER)
P3.02 SCALE: 1/4" = 1'-0"

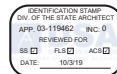


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2018-00000000
40' MODULES
COLD WATER
FLOOR PLANS

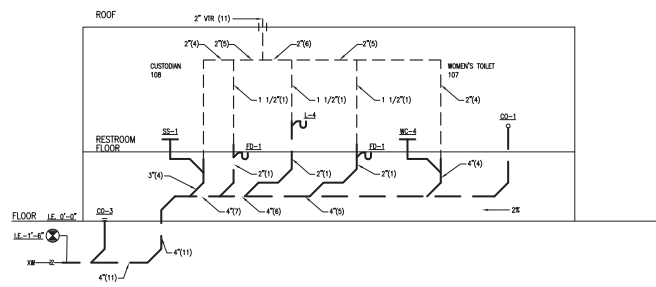


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Oak Park, CA 91377

**Medea Creek
Middle School
Modular
Classrooms**

1022 Douglas Road,
Oak Park, CA 91377 818-707-7022

Date	Issued For
06/01/2018	100% SCHEMATIC DESIGN
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06/10/2018	80% CONSTRUCTION DOCUMENTS
10/18/2018	DSA PROGRESS DRAWINGS SUBMITTAL
12/20/2018	DSA SUBMISSION
04/05/2019	DSA RESUBMISSION
06/20/2019	DSA RESUBMISSION



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

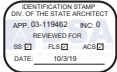


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20180708-000
**20' MODULE
WASTE AND
VENT RISER
DIAGRAM**

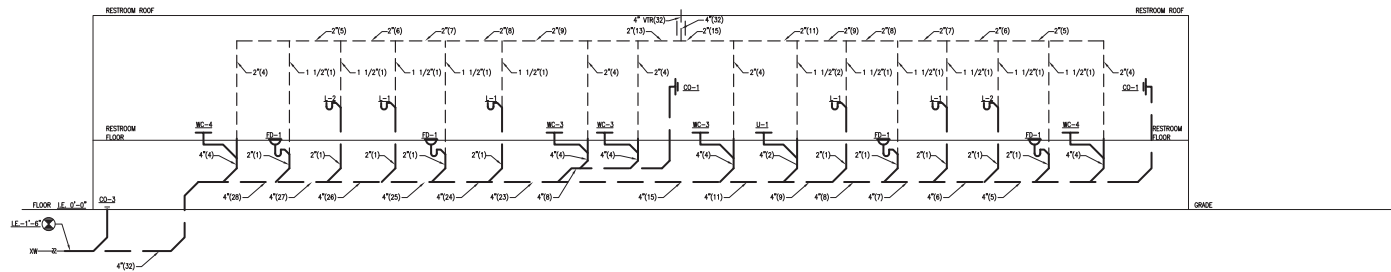


5801 Conifer St.
Oak Park, CA 91377

**Medea Creek
Middle School
Modular
Classrooms**

1022 Doubleline Road,
Oak Park, CA 91377 818-707-7022

Date	Issued For
06/01/2018	100% SCHEMATIC DESIGN
05/07/2018	100% DESIGN DEVELOPMENT
06/10/2018	50% CONSTRUCTION DOCUMENTS
10/18/2018	DSA PROGRESS DRAWINGS SUBMITTAL
12/20/2018	DSA SUBMISSION
04/05/2019	DSA RESUBMISSION
06/20/2019	DSA RESUBMISSION



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



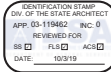
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2018-0218-0010

**40' MODULE
WASTE AND
VENT RISER
DIAGRAM**

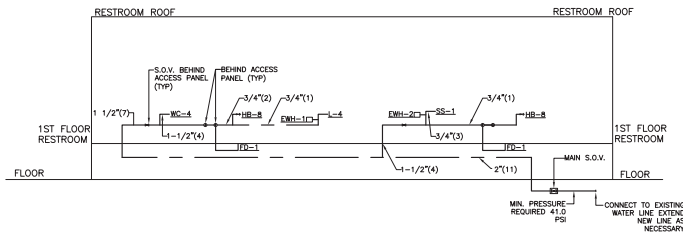


5801 Center St.
Oak Park, CA 91377

**Medea Creek
Middle School
Modular
Classrooms**

1022 Doubletree Road,
Oak Park, CA 91377 818-707-7022

Date	Issued For
06/01/2018	100% SCHEMATIC DESIGN
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06/10/2018	80% CONSTRUCTION DOCUMENTS
10/18/2018	DSA PROGRESS DRAWINGS SUBMITTAL
12/20/2018	DSA SUBMISSION
04/05/2019	DSA RESUBMISSION
06/20/2019	DSA RESUBMISSION



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

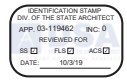


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2018/07/26/001
**20' MODULE
COLD AND
HOT WATER
RISER DIAGRAM**

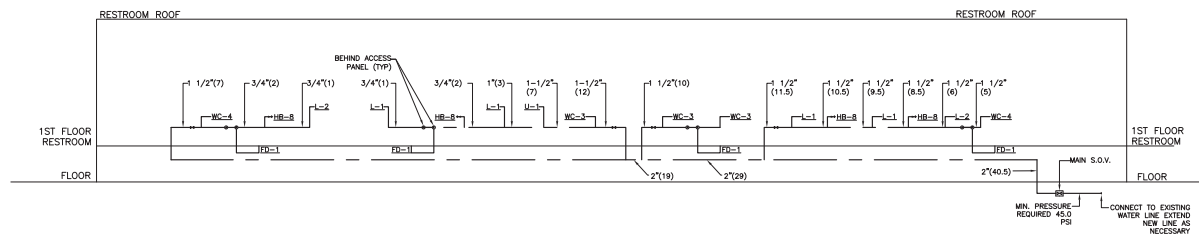


5801 Corbin St.
Oak Park, CA 91377

Medea Creek Middle School Modular Classrooms

1022 Doubleline Road,
Oak Park, CA 91377 818-707-7022

Date	Issued For
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05/07/2018	100% DESIGN DEVELOPMENT
06/10/2018	80% CONSTRUCTION DOCUMENTS
10/18/2018	DSA PROGRESS DRAWINGS SUBMITTAL
12/20/2018	DSA SUBMISSION
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06/20/2019	DSA RESUBMISSION



1	RESTROOM OPTION 2 STUDENTS ONLY LAYOUT 2 - COLD AND HOT WATER RISER DIAGRAM
P4.04	SCALE: NTS

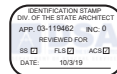


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40' MODULE COLD AND HOT WATER RISER DIAGRAM

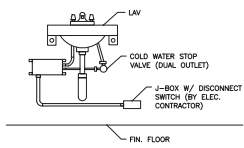


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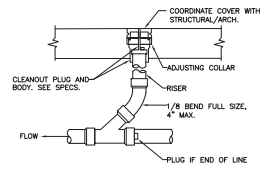
**Medea Creek
Middle School
Modular
Classrooms**

1022 Doubletree Road,
Oak Park, CA 91377 818-707-7022

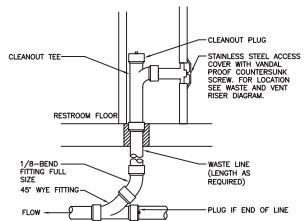
Date	Issued For
06/01/2018	100% SCHEMATIC DESIGN
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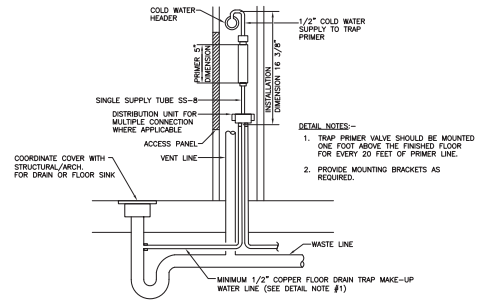
1 WATER HEATER DETAIL



3 (CO-3) FLOOR CLEANOUT DETAIL



2 (CO-1) WALL CLEANOUT DETAIL



4 TRAP PRIMER DETAIL

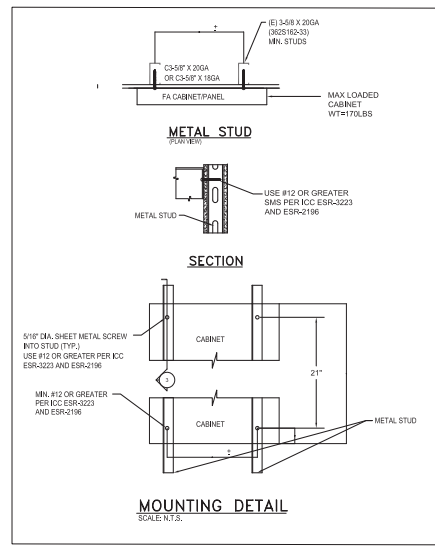
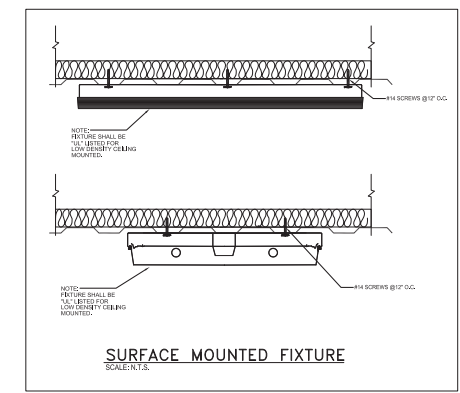
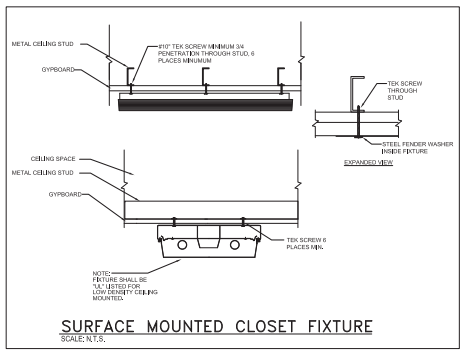


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2018-0780-001
PLUMBING
DETAILS



GENERAL GROUNDING NOTES

EACH BUILDING SHALL BE SEPARATELY GROUNDING WITH #4 R/O X COPPER CLAD STEEL GROUND ROD WHERE ROCK BOTTOMS ENCOUNTERED SHOULD BE DRIVEN AT AN ANGLE NOT TO EXCEED 45 DEGREES FROM THE VERTICAL OR SHALL BE ROBBED IN A TRENCH THAT IS AT LEAST 30 DEEP BY FIRE ELECTRICAL.

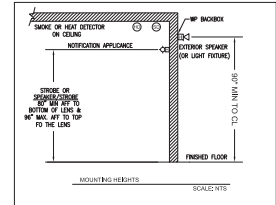
TESTING TEST FOR RESISTANCE TO GROUND BY RESISTANCE EXCEED 25 OHMS INITIAL ADDITIONAL GROUND RODS SEPARATED AT LEAST 4'-0" UNTIL RESISTANCE IS REDUCE TO 25 OHMS OR LESS BY FIRE ELECTRICAL.

APPROVAL OF THIS PLAN DOES NOT CONSTITUTE APPROVAL OF THIS FIRE ALARM FOR ALL SITES THE FIRE ALARM SYSTEM AND/OR COMPONENTS MAY BE REQUIRED TO BE CHANGED DUE TO SITE LOCATION EXISTING CONDITION OR INCOMPATIBLE COMPONENTS.

GROUNDING TEST SHALL BE DONE IN THE PRESENCE OF THE PROJECT INSPECTOR ALL GROUNDING SHALL BE IN ACCORDANCE WITH CODE ARTICLE 250.

FIRE ALARM SYSTEM NOTES

1. INSTALLATION OF THE FIRE ALARM SYSTEM IS NOT A PART OF THE CONTRACT ALL REQUIRED FIRE ALARM CODES CONFORMS TO ARTICLE 700 OF CALIFORNIA ELECTRICAL CODE AND ALL APPLICABLE LOCAL CODES.
2. THE FIRE ALARM SYSTEM SHALL CONFORM TO ARTICLE 700 OF CALIFORNIA ELECTRICAL CODE AND ALL APPLICABLE LOCAL CODES.
3. INSTALLATION OF THE FIRE ALARM SYSTEM SHALL NOT BE STARTED UNTIL DETAILED PLANS AND SPECIFICATIONS INCLUDING GROUNDING SYSTEMS ARE SUBMITTED LITTING NUMBER FOR EACH COMPONENT OF THE SYSTEM HAVE BEEN APPROVED BY LOCAL CITY FIRE DEPARTMENT.
4. UPON COMPLETION OF THE INSTALLATION OF THE FIRE ALARM SYSTEM A FACTORY TEST OF THE ENTIRE SYSTEM SHALL BE MADE IN THE PRESENCE OF THE ENFORCING AGENCY.
5. PROVIDE FIRE ALARM SYSTEM OUT SHEETS ON PER PROJECT DESIRES.



SYMBOLS LIST

CONDUIT QUANTITY OF #12 AWG (OR #10 AWG AS NOTED ON PLANS) NO VARIATION EXCEPT BY 25% INCREASE

FLOOR BELOW

CONDUIT CONCEALED BY WALLS OR CEILING

FLOOR BELOW

CONDUIT AND WIRES WITH ADDITIONAL GROUND WIRE

TYPE	TYPE	TYPE
1	2	3
4	5	6

CLASS R FURIBLE DISCONNECT SWITCH

HEAVY DUTY DISCONNECT SWITCH (SEE NUMBER OF POLES AND FUSED OR NON-FUSED AS INDICATED) TO BE MOUNTED WHEN MOUNTED OUTDOORS

PANEL BOUND FLUSH OR SURFACE MOUNTED AS SHOWN ON PLANS AND PANEL SCHEDULES INDICATING PANEL MOUNTING REQUIREMENTS

GROUND BREAKER SEE AND NUMBER OF POLES AS SHOWN ON PLANS

WALL MOUNTED PASSIVE BYPASS DUAL RELAY OCCUPANCY SENSOR DRIVEN

WALL MOUNTED ILLUMINATED EXIT SIGN WITH (1) CIRCUIT BREAKER AND SELF-CONTAINED EMERGENCY BATTERY PACK (15 MINUTES MIN) FIRE WALLS & EXIT CLOSURES

APERTURE BOX ACCESSIBLE OR OPEN CEILING SPACE SEE AS REQUIRED IN REVISIONS PER PROJECT DESIRES

SINGLE POLE MOTOR RATED TOGGLE SWITCH (250V 20A)

TWO POLE MOTOR RATED TOGGLE SWITCH (250V 20A)

DUPLEX CONFORMANCE RECEPTACLE 120V 2P 3W 15AMP NEMA 5-15R FLUSH + 1/2" X 1/2" TO BOTTOM

WALL MOUNTED CLOCK OUTLET + 56 AMP

WALL MOUNTED PUBLIC ADDRESS SYSTEM PHONE + 48 AMP AND PUBLIC ADDRESS SPEAKER CEILING MOUNTED

FLUSH WALL MOUNTED TELEPHONE CABLE OUTLET (VERY HEAVY WITH TENDANT) PHONE CABLE RATED OUT TO 1/2" HIGHEST ACCESSIBLE CEILING SPACE

TERMINATED PROBE & INSTALL REQUIRED BACKBOX, AND 3/4" CO TO RESPECTIVE AC UNIT REFER TO WAC PLANS FOR QUANTITY AND LOCATIONS

450-400X CEILING MOUNTED FIRE ALARM SMOKE DETECTOR (DEVICE BY OTHERS)

450-400X FIRE ALARM DEVICE (DEVICE BY OTHERS) MOUNT AT 40" AFF TO BOTTOM FLUSH WITH 3/4" CONDUIT TO FIRE ALARM BACKBOX WITH FULL STRIPS

450-400X FIRE EXTINGUISHER (DEVICE BY OTHERS) MOUNT AT 40" AFF TO TOP OF DEVICE WITH 3/4" CONDUIT TO FIRE ALARM BACKBOX WITH FULL STRIPS

NEAR RECEPTION

NOT TO SCALE

CONDUIT ONLY WITH FULL WIRES

UNLESS OTHERWISE NOTED

ISOLATED GROUND DEVICE

NEW ITEM / DEVICE

NOT MOVABLE

ELECTRICAL CONTRACTOR

GROUND FULT INTERRUPTER

INDICATES MULTIPLE HOME RUNS FOR SAME BRANCH CIRCUITRY TO CONDUITORS PRIOR TO TERMINATION AT THE PANEL

TERMINATE BRANCH CIRCUITS MARKED AS THEM A COMMON CODE SIZE FULL BOX FROM OF TERMINATION TO PANEL BOARD

TYPE LETTERS	CONDUCTOR SIZE AWG. MIN.	1/2"		3/4"		1"		1 1/4"		1 1/2"		2"	
		NO. OF CABLES	NO. OF CABLES	NO. OF CABLES	NO. OF CABLES	NO. OF CABLES	NO. OF CABLES	NO. OF CABLES	NO. OF CABLES				
FL (CONDUIT) 7/8" (CONDUIT) 1 1/2" (CONDUIT) 2" (CONDUIT) 2 1/2" (CONDUIT) 3"	14/18/24 10/14/18 10/14	4/23 1/21 10/9	6/25 1/21 10/9	10/28 1/21 10/9	12/32 1/21 10/9	16/36 1/21 10/9	20/40 1/21 10/9	24/48 1/21 10/9	30/60 1/21 10/9	36/72 1/21 10/9	42/84 1/21 10/9	48/96 1/21 10/9	54/108 1/21 10/9

AREA - SQUARE FEET

THICKNESS (INCHES)	INTERNAL DIAMETER (INCHES)	TOTAL 100%	OVER 2 COMB. 0%	1	2	3	4	5	6	7	8
1/2"	#12	33	12	336	665	992	3	3	3	3	3
3/4"	#14	51	21	195	390	585	3	3	3	3	3
1"	#16	68	28	264	528	792	3	3	3	3	3
1 1/4"	#18	104	42	396	792	1188	3	3	3	3	3
1 1/2"	#20	140	56	528	1056	1584	3	3	3	3	3
2"	#24	207	84	756	1512	2268	3	3	3	3	3

WIRE FILL CHART SCALE: N.T.S.

APPLICABLE CODES

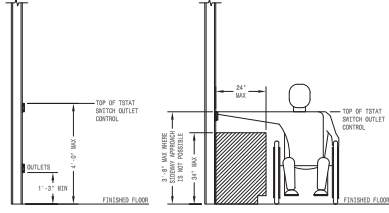
2018 BUILDING STANDARDS ADMINISTRATIVE CODE, PART 1, TITLE 24 C.C.R.
 2018 CALIFORNIA BUILDING CODE (CBC), PART 2, TITLE 24 C.C.R.
 2018 CALIFORNIA ELECTRICAL CODE (CEC), PART 3, TITLE 24 C.C.R.
 2018 CALIFORNIA FIRE CODE (FC), PART 3, TITLE 24 C.C.R.
 2018 CALIFORNIA REFERENCED STANDARDS PART 12, TITLE 24 C.C.R.
 TITLE 19 C.C.A., PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS
 2017 CITY OF LOS ANGELES CODE AMENDMENTS TO CALIFORNIA CODES

LIST OF APPLICABLE STANDARDS

NFPA 72 National Fire Alarm Code (California Amendment) 2013 EDITION (Note: See UL Standard 1971 for "Visual Disturb")

ELECTRICAL SHEET INDEX

NUMBER	SHEET TITLE
E1.00	ELECTRICAL FRONT SHEET
E2.01	800 CLASSROOM LIGHTING PLAN, PANEL SCHEDULES, & DETAILS
E2.02	800 CLASSROOM POWER PLANS
E3.01	207 STAFF RESTROOM LIGHTING AND POWER PLANS, PANEL SCHEDULES, & DETAILS
E3.02	407 RESTROOM LIGHTING AND POWER PLANS, PANEL SCHEDULES, & DETAILS
E4.01	ELECTRICAL T-04 ENERGY COMPLIANCE FORMS CLASSROOMS
E4.02	ELECTRICAL T-04 ENERGY COMPLIANCE FORMS STAFF RESTROOMS
E4.03	ELECTRICAL T-04 ENERGY COMPLIANCE FORMS STUDENT RESTROOMS



3 MOUNTING HEIGHT OVER OBSTRUCTION DETAIL
E2.00 SCALE: 1/2" = 1'-0"

PANEL: B 120/208 VOLT, 1 PH, 3W 100 AMP ALUMINUM BUS MAIN: 100A

LOCATION:		LOADS:	
HICKORY SURFACE FLUSH STANDING		A.I.C.#10.000A	
LINE NUMBER	LOAD DESCRIPTION	QTY	VA
1	CLASSROOM LIGHTING	1	1500
2	SPARE	1	1500
3	OUTDOOR LIGHTING	1	100
4	SPARE	1	100
5	ROOF OUTLET	1	100
6	ROOF FIRE ALARM	1	100
7	POU-1A	1	100
8	SPACE	1	100
9	SPACE	1	100
10	SPACE	1	100
11	SPACE	1	100
12	SPACE	1	100
13	SPACE	1	100
14	SPACE	1	100
15	SPACE	1	100
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95	SPACE	1	100
96	SPACE	1	100
97	SPACE	1	100
98	SPACE	1	100
99	SPACE	1	100
100	SPACE	1	100

LUMINAIR SCHEDULE

TYPE	LAMP	FEATURE	DESCRIPTION	CATALOG NUMBER	VOLTAGE
A	LED	48W	2'x4' SURFACE LED 8000LH-400K	LITHONIA 24G34 80L E2L LPH40	120
B	LED	27W	4' LED WRAPAROUND 3000LH-400K	LITHONIA SRL 30L M40LT	120
C	LED	24W	60" SURFACE LED WITH BATTERY BACKUP & BUILT IN PHOTOCELL	SEAWAY LEE 77064NACHLED-CC068P401	120

GENERAL SHEET NOTES

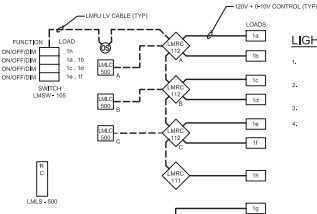
- REFER TO DRAWINGS AND PROJECT SPECIFICATIONS OF OTHER DISCIPLINES FOR ADDITIONAL PROJECT INFORMATION AND REQUIREMENTS, NOTIFY ENGINEER OF ANY CONFLICTS BETWEEN THE INFORMATION PRESENTED AND FIELD CONDITIONS.

SHEET KEYNOTES

- CROSSOVER AT WALL MAKE CONNECTIONS FOR CIRCUITS 1, 1a, 1b.
- CROSSOVER AT WALL MAKE CONNECTIONS FOR CIRCUITS 1, 1c.

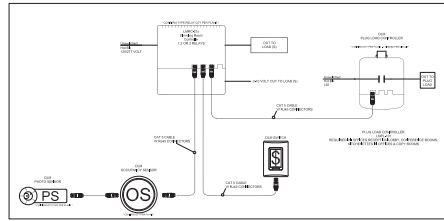
LIGHTING CONTROL LEGEND

SYMBOL	MANUFACTURER	CATALOG#	FUNCTION
⬢	WATTSTOPPER	LML3-500	OPEN LOOP HALLWAY PHOTOSENSOR WITH AUTOMATIC DIMMING OR DIMMING OF UP TO 3 ZONE
⬢	WATTSTOPPER	LMLC-110	CENTRAL LIGHTING MANAGEMENT DOUBLE RELAY WITH 0-10V DIMMING ROOM CONTROLLER
⬢	WATTSTOPPER	LMLC-110	CENTRAL LIGHTING MANAGEMENT SINGLE RELAY WITH 0-10V DIMMING ROOM CONTROLLER
⬢	WATTSTOPPER	LMLC-100	LOW VOLTAGE SWITCH FOR CONTROL OF 4 PRESET SCENES AND PROPORTIONAL CONTROL OF SCENES OF LOADS
⬢	WATTSTOPPER	LMLC-100	CENTRAL DUAL TECHNOLOGY GELING MOUNTED OCCUPANCY SENSOR, 360 DEGREE, 1, 000 S.F.
⬢	WATTSTOPPER	PM-100	PIR WALL MOUNTED OCCUPANCY SENSOR



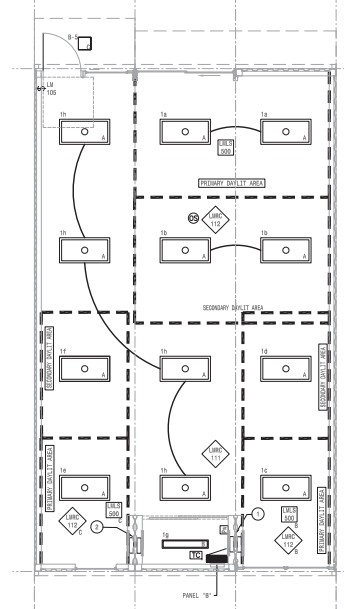
LIGHTING CONTROL NOTES

- PROVIDE ONE LML3-500 HANDHELD PROGRAMMING REMOTE CONTROL.
- SYSTEM SHALL BE TYPE 24 COMPLIANT, ALL PRIMARY AND SECONDARY DAYLIT ZONES SHALL BE CONTROLLED SEPARATELY.
- OCCUPANCY SENSOR SHALL CONTROL ALL LOADS (1a to 1c).
- ALL CONTROL COMPONENTS AND LOADS SHALL BE ON CIRCUIT 1a.



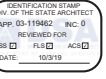
2 LIGHTING CONTROL DIAGRAM

E2.00 SCALES: NONE



1 960 CLASSROOM LIGHTING PLAN

E. SCALE: 1/4" = 1'-0"



5801 Corlier St.
Oak Park, CA 91377

Medea Creek Middle School Modular Classrooms

1002 Doubleline Road,
Oak Park, CA 91377 818-707-7022

Date Issued For
06/01/2018 100% SCHEMATIC DESIGN
05/07/2018 100% DESIGN DEVELOPMENT
06/10/2018 80% CONSTRUCTION DOCUMENTS
10/18/2018 ISA SUBMISSION
12/20/2018 ISA SUBMISSION
04/05/2019 ISA RESUBMISSION
06/20/2019 ISA RESUBMISSION



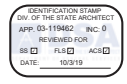
Crate Modular Inc
3025 E. DOMINGUEZ STREET
CARSON, CALIFORNIA 90810
TEL: 310.863.8288
Shannon@cratemodular.com



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2018-07-09-000
960 CLASSROOM LIGHTING PLAN PANEL SCHEDULES, & DETAILS

E2.01

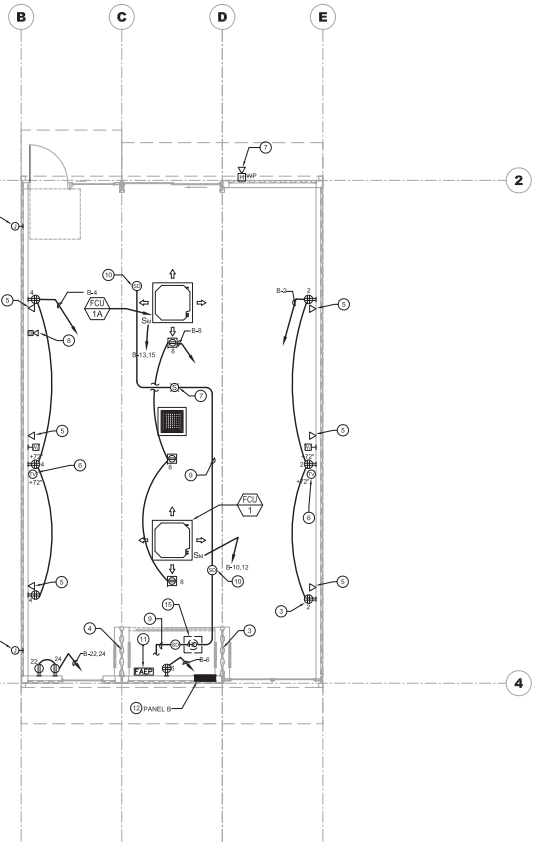


5801 Corbin St.
Oak Park, CA 91377

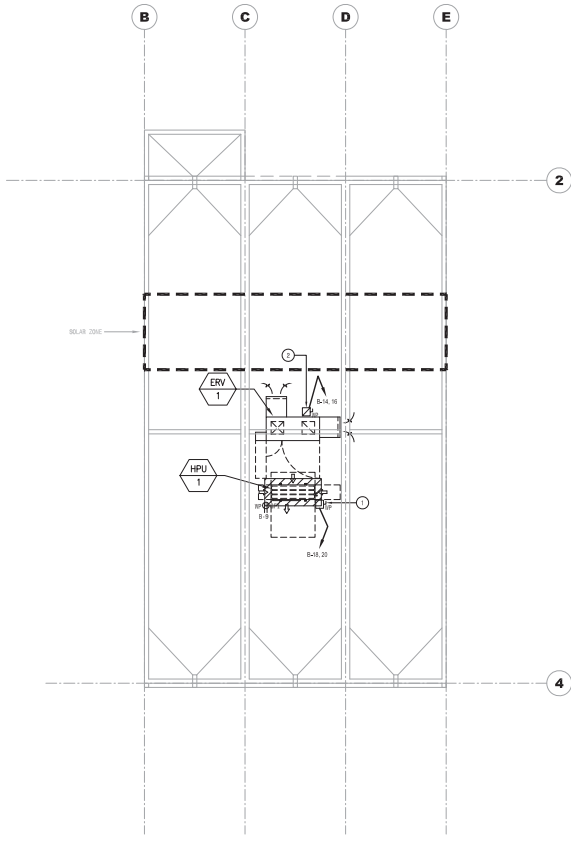
Medea Creek Middle School Modular Classrooms

1022 Doubleline Road,
Oak Park, CA 91377 818-707-7022

Date	Issued For
06/01/2018	100% SCHEMATIC DESIGN
05/07/2018	100% DESIGN DEVELOPMENT
06/10/2018	80% CONSTRUCTION DOCUMENTS
10/18/2018	DSA PROGRESS DRAWINGS SUBMITTAL
12/20/2018	DSA SUBMISSION
04/05/2019	DSA RESUBMISSION
06/20/2019	DSA RESUBMISSION



1 960 CLASSROOM POWER PLAN
E3.00 SCALE: 1/4" = 1'-0"



2 960 CLASSROOM ROOF POWER PLAN
E3.00 SCALE: 1/4" = 1'-0"

GENERAL SHEET NOTES

1. ALL ELECTRICAL DEVICES LOCATED OUTDOOR SHALL BE WP.
2. ALL PENETRATIONS TO THE ROOF SHALL BE WP.
3. ALL ELECTRICAL ROOF PENETRATIONS SHALL BE 12" AWAY FROM ANY EQUIPMENT.
4. ALL CONDOR RUNS SHALL BE INSTALLED IN THE CEILING SPACE BELOW ROOF. EXPOSED HORIZONTAL CONDOR RUNS ON ROOF ARE NOT PERMITTED.
5. COORDINATE EXACT POINT OF CONNECTION TO HVAC UNITS WITH HVAC CONTRACTOR PRIOR TO ROUGH-IN.
6. PROVIDE & INSTALL A 3/4" DIA. FROM EACH HVAC UNIT TO RESPECTIVE FIBER TO ROUGH-IN.
7. REFER TO HVAC DRAWINGS FOR EXACT LOCATIONS OF ALL HVAC UNITS.
8. PROVIDE & INSTALL A 3/4" DIA. WITH REQUIRED CONTROL LINES FROM NEW CONDENSING UNITS DOWN TO NEW UNITS AND TO RESPECTIVE THRU-ROOFS.
9. REFER TO HVAC PLANS & DETAILS FOR ADDITIONAL LABOR AND MATERIAL REQUIRED AS NOTED.

SHEET KEYNOTES

1. CU-1 & CU-2 200V, 18, 17, 14 MCA, 20A MDP, PROVIDE 30A 2P WP DISCONNECT SWITCH AT UNIT AND (2) #12, #10, #8, C TO PANEL.
2. ERV: 200V, 18, 17, 14 MCA, 20A MDP, PROVIDE CONNECTION TO FIBER DISCONNECT SWITCH PROVIDE WITH LINE AND (2) #12, #10, #8, C TO PANEL.
3. CROSSOVER AT WALL, MAKE CONNECTION FOR CIRCUITS 2, 4, 6, 13, 15.
4. CROSSOVER AT WALL, MAKE CONNECTION FOR CIRCUITS 2, 4, 6, 13, 15.
5. PHONE / DATA ROUGH-IN ONLY, PROVIDE OUTLET BOX AND #8, C STUBBED INTO CRAWL SPACE.
6. TV ROUGH-IN ONLY, PROVIDE OUTLET BOX AND #8, C STUBBED INTO CRAWL SPACE.
7. HORNSTROBE ROUGH-IN ONLY, PROVIDE OUTLET BOX AND #8, C STUBBED INTO CRAWL SPACE.
8. PA SPEAKER ROUGH-IN ONLY, PROVIDE OUTLET BOX AND #8, C STUBBED INTO CRAWL SPACE.
9. #8, C BETWEEN DETECTORS AND TO LOCATION OF PANEL.
10. SMOKE DETECTOR ROUGH-IN ONLY, PROVIDE CEILING OUTLET BOX.
11. FIRE ALARM EXTENDER PANEL ROUGH-IN ONLY, PROVIDE #2, C STUBBED INTO CRAWL SPACE.
12. PROVIDE #2, C STUBBED INTO CRAWL SPACE FOR 100A FEEDER PROVIDED BY OTHERS.
13. #1 CLASSROOM 100 ROUGH-IN ONLY, PROVIDE OUTLET BOX AND #8, C STUBBED INTO CRAWL SPACE FOR FUTURE CCTV PROVIDED BY OTHERS.
14. #1 CLASSROOM 100 ROUGH-IN ONLY, PROVIDE OUTLET BOX AND #8, C STUBBED INTO CRAWL SPACE FOR FUTURE CCTV PROVIDED BY OTHERS.
15. HEAT DETECTOR ROUGH-IN ONLY, PROVIDE CEILING OUTLET BOX AND ACCESS HATCH.



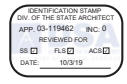
Crate Modular Inc
3025 E. DOMINGUEZ STREET
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2018-0780-000
960 CLASSROOM POWER PLANS

E2.02

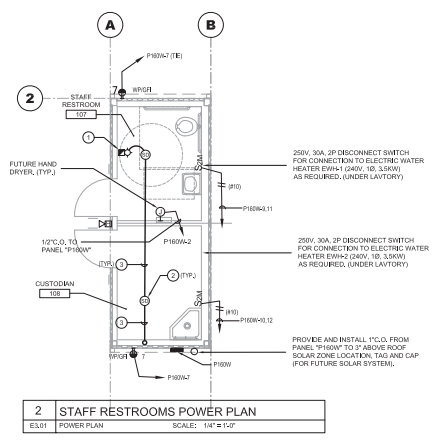


5801 Corlier St.
Oak Park, CA 91377
818-707-7022

Medea Creek Middle School Modular Classrooms

1002 Doubleline Road,
Oak Park, CA 91377
818-707-7022

Date Issued For
06/01/2018 100% SCHEMATIC DESIGN
06/07/2018 100% DESIGN DEVELOPMENT
06/10/2018 80% CONSTRUCTION DOCUMENTS
10/18/2018 DSA PROGRESS DRAWINGS SUBMITTAL
12/20/2018 DSA SUBMISSION
04/05/2019 DSA RESUBMISSION
06/20/2019 DSA RESUBMISSION



PANEL: P160W 120/240 VOLT, 1 PH, 3W 125 AMP COPPER BUS MAIN: 70A
(PANEL TO HAVE SOLAR ZONE) ES: 48000

LOCATION: STAFF RESTROOM MOUNTING: SURFACE FLUSH STANDING A.I.C.=10,000A LOAD: 14.7 kVA

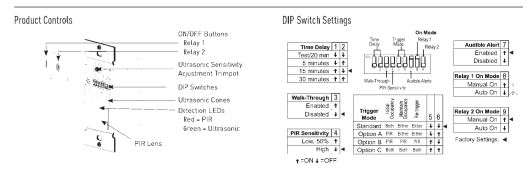
LINE #	LINE #	VA LOAD	LOAD DESCRIPTION	OUTLETS	OUTLETS	OUTLETS	LOAD DESCRIPTION	VA LOAD	LINE #
1	881		RESTROOMS LTG	2	20	10		1200	2
3			OUTDOOR LTG	1	20	1	EF-3	64	4
9			SPARE	1	20	1	EF-4	64	6
7			OUTDOOR RECEPTACLE	2	20	1			8
11	1750		ELECTRICAL WATER HEATER	2	30	40	ELECTRICAL WATER HEATER	3750	10
9			SPACE						12
13			SPACE						14
15			SPACE						16
1630 2170 SUB - TOTALS								SUB - TOTALS 5014 5814	
								LINE TOTALS 6844 5884	
								LCL ADCCR 938 938	
								TOTAL VA PER PHASE 7782 8622	
								LINE AMPS 65 58	

NOTE 1. 2. 3. 4.

SHEET KEYNOTES

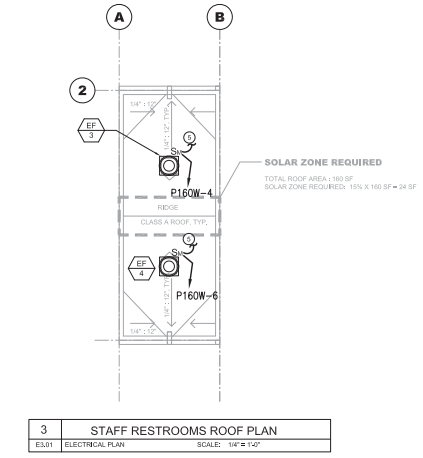
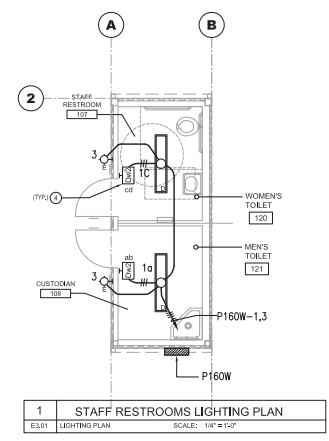
- HORN/ROSE ROUGH-IN ONLY: PROVIDE OUTLET BOX AND X, C STUBBED INTO CRAWL SPACE.
- SMOKE DETECTOR ROUGH-IN ONLY: PROVIDE CABLED OUTLET BOX.
- X, C BETWEEN DETECTORS AND X, C STUBBED INTO CRAWL SPACE.
- WALL MOUNTED DUAL RELAY OCCUPANCY SENSOR. SET THE LIGHTING RELAY DIP SWITCH FOR 5 MINUTES DELAY. AND SET THE FAN RELAY DIP SWITCH FOR 15 MINUTES DELAY.
- CONNECT EXHAUST FAN TO LIGHT SWITCH.

Lighting Control Switch



LUMINAIR SCHEDULE

TYPE	WATTAGE	DESCRIPTION	CATALOG NUMBER	VOLTAGE
D	40W	4' LED W/VA W/ROUND, 4800LM 4000K	LF17004- 58L4 48, MVLT E 1/4W/CP	120
E	30W	EXTERIOR WALL PACK W/PIR BULB W/PHOTOCELL	LF17004- 30W1 P2 49K/MOLT PE	120



CRATE

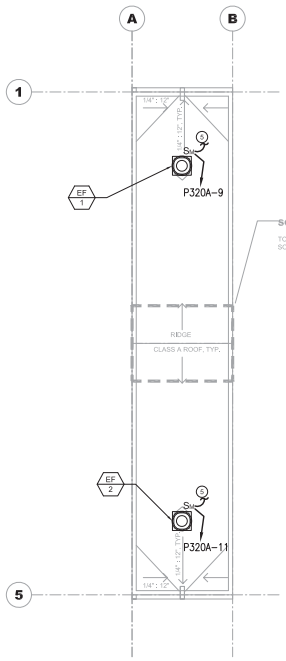
Crate Modular Inc
3025 E. DOMINGUEZ STREET
CARSON, CALIFORNIA 90810
TEL: 310.863.8268
Shannon@cratemodular.com



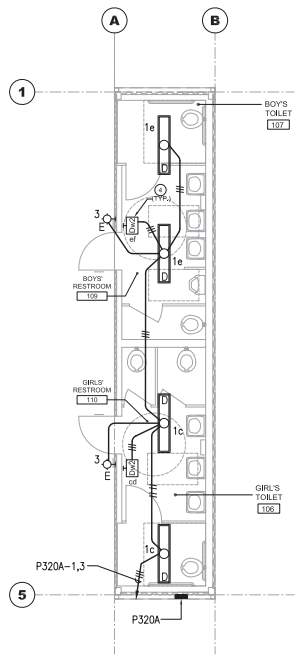
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2018-0789-000 20'
STAFF RR LIGHTING & POWER PLAN, PANEL SCHEDULES, & DETAILS

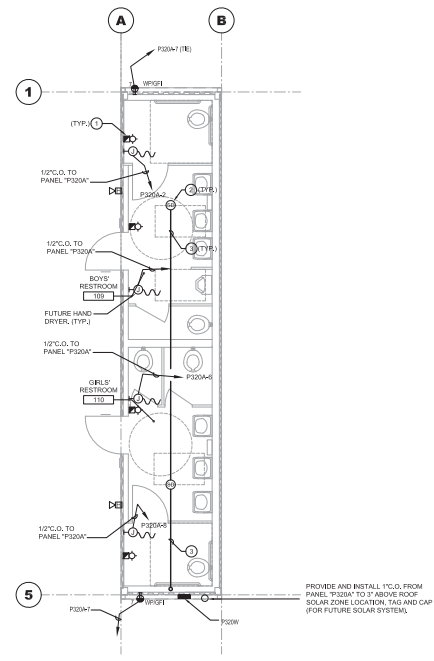
E3.01



3 STUDENTS RESTROOM ROOF PLAN
 E3.02 ELECTRICAL PLAN SCALE: 1/4" = 1'-0"

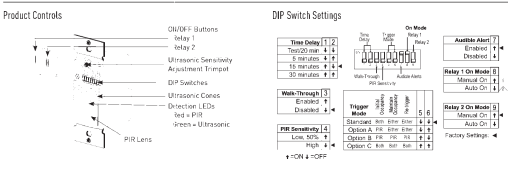


2 STUDENTS RESTROOM LIGHTING PLAN
 E3.02 LIGHTING PLAN SCALE: 1/4" = 1'-0"



1 STUDENTS RESTROOM POWER PLAN
 E3.02 LIGHTING PLAN SCALE: 1/4" = 1'-0"

- SHEET KEYNOTES**
- HORNSTROBE ROUGH-IN ONLY: PROVIDE OUTLET BOX AND X/ C STUBBED INTO CRANL SPACE.
 - SMOKE DETECTOR ROUGH-IN ONLY: PROVIDE CEILING OUTLET BOX.
 - X/ C.O. BETWEEN DETECTORS AND X/ C STUBBED INTO CRANL SPACE.
 - WALL MOUNTED DUAL RELAY OCCUPANCY SENSOR. SET THE LIGHTING RELAY DIP SWITCH FOR 15 MINUTES DELAY, AND SET THE FAN RELAY DIP SWITCH FOR 15 MINUTES DELAY.
 - CONNECT EXHAUST FAN TO LIGHT SWITCH.



LUMINAIR SCHEDULE				
TYPE	WATTAGE	DESCRIPTION	CATALOG NUMBER	VOLTAGE
D	LED 40W	4 LED W/WRAPAROUND, 4800K/4000K	411K04-084 48L MIDDLE/END/CP	120
E	LED 30W	EXTERIOR WALL PACK WITH BUILT-IN PHOTOCELL	411K04-048 30W 48L MIDDLE/END/CP	120

PANEL: P320A 120/240 VOLT, 1 PH, 3W 125 AMP COPPER BUS

(PANEL TO HAVE BOLT-ON BREAKERS)

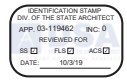
LOCATION: RESTROOM STUDENTS
 MOUNTING: SURFACE FLUSH STANDING

MAIN: 70A 22 AMP

A.I.C. = 10,000A LOAD: 5.8 kVA

CIR	VA LOAD	LOAD DESCRIPTION	OUTLETS				LOAD DESCRIPTION				VA LOAD	CIR		
			D	R	L	R	L	R	L	R				
1	190	RESTROOMS LTD		1	1	20	1							23
3	60	OUTDOOR LIGHTING												4
9		SPARE												8
7	360	OUTDOOR OUTLETS	2	1	20	1								8
8	72	SPARE												10
11		SPARE												12
13		SPARE												14
15		SPARE												16
23A	498	SUB-TOTALS												2400
											SUB-TOTALS	2400	2400	
											LINE TOTALS	2634	2694	
											LCL ADDER	40		
											TOTAL VA PER PHASE	2074	2894	
											LINE AMPS	22	24	

NOTE 1, 2, 3, 4.



501 Corlier St, Oak Park, CA 91377

Medea Creek Middle School Modular Classrooms

1002 Doubleside Road, Oak Park, CA 91377 818-707-7022

Date Issued For 06/01/2018 100% SCHEMATIC DESIGN 05/02/2019 100% DESIGN DEVELOPMENT 06/10/2018 80% CONSTRUCTION DOCUMENTS 10/18/2018 05A PRELIMINARY DRAWINGS SUBMIT 12/20/2018 05A SUBMISSION 06/02/2019 05A RESUBMISSION 06/02/2019 05A RESUBMISSION

Form 501: Indoor Lighting. Includes sections for project information, lighting calculations, and compliance with ASHRAE 90.1-2010 and Title 24, Part 9.1.

Form 502: Outdoor Lighting. Includes sections for project information, lighting calculations, and compliance with ASHRAE 90.1-2010 and Title 24, Part 9.2.

Form 503: Indoor Lighting. Includes sections for project information, lighting calculations, and compliance with ASHRAE 90.1-2010 and Title 24, Part 9.1.

Form 504: Outdoor Lighting. Includes sections for project information, lighting calculations, and compliance with ASHRAE 90.1-2010 and Title 24, Part 9.2.

Form 501: Indoor Lighting. Includes sections for project information, lighting calculations, and compliance with ASHRAE 90.1-2010 and Title 24, Part 9.1.

Form 502: Outdoor Lighting. Includes sections for project information, lighting calculations, and compliance with ASHRAE 90.1-2010 and Title 24, Part 9.2.

Form 503: Indoor Lighting. Includes sections for project information, lighting calculations, and compliance with ASHRAE 90.1-2010 and Title 24, Part 9.1.

Form 504: Outdoor Lighting. Includes sections for project information, lighting calculations, and compliance with ASHRAE 90.1-2010 and Title 24, Part 9.2.

Form 501: Indoor Lighting. Includes sections for project information, lighting calculations, and compliance with ASHRAE 90.1-2010 and Title 24, Part 9.1.

Form 502: Outdoor Lighting. Includes sections for project information, lighting calculations, and compliance with ASHRAE 90.1-2010 and Title 24, Part 9.2.

Form 503: Indoor Lighting. Includes sections for project information, lighting calculations, and compliance with ASHRAE 90.1-2010 and Title 24, Part 9.1.

Form 504: Outdoor Lighting. Includes sections for project information, lighting calculations, and compliance with ASHRAE 90.1-2010 and Title 24, Part 9.2.

CRATE Crate Modular Inc 3025 E. DOMINGUEZ STREET CARSON, CALIFORNIA 90810 TEL: 310.863.8288 Shannon@cratemodular.com



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2018-07-09-0000 ELECTRICAL T-34 ENERGY COMPLIANCE FORMS STAFF RESTROOMS E4.01

