PACKAGED ROOFTOP HEAT PUMP SCHEDULE

MARK	MANUF.	MODEL	AREA SERVED	TOTAL COOLING MBH (ARI)	SENSIBLE COOLING MBH (ARI)	HEATING MBH (ARI)	CFM	FAN SPEED RPM	MOTOR HP	O.S.A. CFM	E.S.P. (IN. W.G.)	SEER2	HSPF2	ELECTRICAL VOLTS	ELECTRICAL PH.	ELECTRICAL HZ.	MIN. CKT. AMPS	MOCP	TOTAL OPER. WEIGHT (LBS.)	REMARKS
HP 1	YORK	WYE06A2	SOUTHEAST EXT.	66.5	47.1	46.0	2000	972	2.9	545	0.6	14.3	6.9	208	3	60	30.9	45.0	830	1 2 4
HP 2	YORK	WYE06A2	RESOURCE ROOM	69.4	50.1	46.0	2250	1028	2.9	600	0.6	14.3	6.9	208	3	60	30.9	45.0	830	1 2 4
HP 3	YORK	WYE04A2	INTERIOR CORRIDOR	37.2	27.2	35.0	1,200	973	2.4	510	0.6	14.5	7.1	208	3	60	22.5	30.0	705	1 2
HP 4	YORK	WYE04A2	CLASSROOM #2 & #7	39.7	31.0	35.0	1,500	1027	2.4	570	0.6	14.5	7.1	208	3	60	22.5	30.0	705	1 2
HP 5	YORK	PH3E36N	HEADSTART CLASSROOM #1	29.3	21.4	35.1	1,240	-	0.5	475	0.6	13.4	6.7	208	1	60	27.3	40.0	530	1 2
HP 6	YORK	WYE04A2	E.H.S. CLASSROOM #1 & #2	37.2	27.2	35.0	1,200	973	2.4	270	0.6	14.5	7.1	208	3	60	22.5	30.0	705	1 2
HP 7	YORK	PH3E24N	E.H.S. CLASSROOM #3 & #4	24.2	17.1	24.0	760	-	0.5	270	0.6	13.4	6.7	208	1	60	19.8	30.0	400	1 3
HP 8	YORK	WYE04A2	E.H.S. CLASSROOM #5 & #6	36.0	25.4	35.0	1,050	947	2..4	430	0.6	14.5	7.1	208	3	60	22.5	30.0	705	1 2

1. PROVIDE FACTORY ROOF CURB, MERV-13 FILTRATION AND NEOPRENE ISOLATION.
2. PROVIDE PROVENT ECONOMIZER.
3. PROVIDE PROVENT OUTSIDE AIR HOOD.
4. PROVIDE DUCT SMOKE DETECTOR.

EXHAUST FAN SCHEDULE

MARK	QTY.	MANUFACTURER	MODEL	TYPE	AREA SERVED	CFM	E.S.P. (IN. W.G.)	FAN RPM	MOTOR HP	ELECTRICAL VOLTS	ELECTRICAL PH.	ELECTRICAL HZ.	OPER. WEIGHT (LBS.)	REMARKS
EF 1	1	GREENHECK	SQ-90-VG	INLINE	POTTY	250	0.5	1,481	1/10	115	1	60	60	PROVIDE BACKDRAFT DAMPER. CONTROL WITH LIGHT SWITCH.
EF 2	3	GREENHECK	SQ-80-VG	INLINE	POTTY ROOMS IN EHS CLASSROOMS	200	0.5	1,560	1/10	115	1	60	60	PROVIDE BACKDRAFT DAMPER. CONTROL WITH LIGHT SWITCH.
EF 3	1	GREENHECK	SQ-97-VG	INLINE	POTTY ROOM IN EHS CLASSROOM #7	125	0.5	1,341	1/4	115	1	60	55	PROVIDE BACKDRAFT DAMPER. CONTROL WITH LIGHT SWITCH.
EF 4	1	GREENHECK	SQ-100-VG	INLINE	JANITOR ROOM & ADA RESTROOMS	700	0.5	1,284	1/4	115	1	60	50	PROVIDE BACKDRAFT DAMPER. INTERLOCK WITH BUILDING OCCUPANCY. 1
EF 5	1	GREENHECK	SQ-90-VG	INLINE	FOOD PREP	250	0.5	1,481	1/10	115	1	60	60	PROVIDE BACKDRAFT DAMPER. INTERLOCK WITH BUILDING OCCUPANCY. 1
EF 6	1	GREENHECK	SQ-90-VG	INLINE	BREAK ROOM	285	0.5	1,531	1/10	115	1	60	60	PROVIDE BACKDRAFT DAMPER. INTERLOCK WITH BUILDING OCCUPANCY. 1

1. PROVIDE TIME CLOCK, ALONG WITH ALL NECESSARY RELAYS, SWITCHES, WIRING AND CONTROL DEVICES TO ACHIEVE BUILDING INTERLOCK.

CEILING DIFFUSER AND REGISTER SCHEDULE

CFM RANGE	SIZE (NECK)	MAX. N.C. LEVEL	SERVICE	MANUFACTURER & MODEL NO.	REMARKS
0-100	6 x 6	<14	CEILING SUPPLY AIR	TITUS - OMNI PLAQUE DIFFUSER	OR EQUAL BY KRUEGER
101-180	8 x 8	<14	CEILING SUPPLY AIR	TITUS - OMNI PLAQUE DIFFUSER	
181-280	10 x 10	14	CEILING SUPPLY AIR	TITUS - OMNI PLAQUE DIFFUSER	
281-400	12 x 12	17	CEILING SUPPLY AIR	TITUS - OMNI PLAQUE DIFFUSER	
401-620	15 x 15	21	CEILING SUPPLY AIR	TITUS - OMNI PLAQUE DIFFUSER	
621-900	18 x 18	24	CEILING SUPPLY AIR	TITUS - OMNI PLAQUE DIFFUSER	
0-100	6"	<13	CEILING RETURN AIR	TITUS PAR-3FW	
101-170	8"	13	CEILING RETURN AIR	TITUS PAR-3FW	
171-270	10"	16	CEILING RETURN AIR	TITUS PAR-3FW	
271-390	12"	24	CEILING RETURN AIR	TITUS PAR-3FW	
391-530	14"	21	CEILING RETURN AIR	TITUS PAR-3FW	
531-780	15 x 15	22	CEILING RETURN AIR	TITUS PAR-3FW	
781-1120	18 x 18	24	CEILING RETURN AIR	TITUS PAR-3FW	
1120-1500	22 x 22	25	CEILING RETURN AIR	TITUS PAR-3FW	

MECHANICAL GENERAL NOTES

1. ALL BRANCH DUCTS TO HAVE BALANCE DAMPERS WITH QUADRANT LOCKS.
2. ALL DUCT SIZES SHOWN ARE NET INSIDE DIMENSIONS.
3. FACTORY-MADE FLEXIBLE AIR DUCTS AND CONNECTORS SHALL NOT BE MORE THAN 5 FEET IN LENGTH PER SECTION 603.4.1 CMC.
4. CONFORMANCE WITH C.M.C. 2025 EDITION, SECTIONS 601 THROUGH 604 AND THE LATEST SMACNA HVAC DUCT CONSTRUCTION STANDARDS.
5. DUCT AND PLENUM INSULATION SHALL BE IN ACCORDANCE WITH THE CALIFORNIA ENERGY COMMISSION (CEC) LATEST EDITION SECTION 120.4, THE STATE MECHANICAL CODE PART 604, TITLE 24, CALIFORNIA ADMINISTRATIVE CODE AND THE LATEST EDITION OF THE CALIFORNIA MECHANICAL CODE (CMC) SECTIONS 604 & 409.3. SEE SPECIFICATIONS FOR MINIMUM THICKNESS AND TYPE. MATERIAL EXPOSED WITHIN A DUCT OR PLENUM SHALL COMPLY WITH SECTION 602.2 CMC. INSULATION MATERIAL SHALL MEET THE CALIFORNIA QUALITY STANDARD PER SECTION 110.8 E.E.S.
6. THERMOSTATS SHALL BE LOCATED AT 48" ABOVE FINISHED FLOOR UNLESS NOTED OTHERWISE.
7. PROVIDE FLEXIBLE CONNECTIONS AT THE INLET AND OUTLET OF ALL FANS.
8. GENERAL CONTRACTOR SHALL UNDERCUT DOORS SHOWN 1" TO PROVIDE TRANSFER AIR FLOW.
9. COORDINATE FINAL LOCATIONS OF AIR DISTRIBUTION WITH REFLECTED CEILING PLAN, I.E. LIGHTS, SPEAKERS, TILES, AND SPRINKLER HEADS.
10. FIRE/SMOKE DAMPERS: REVIEW BOTH THE MECHANICAL AND ARCHITECTURAL PLANS FOR FIRE/SMOKE DAMPER REQUIREMENTS. FIRE/SMOKE DAMPERS SHALL BE INSTALLED AND BE READILY ACCESSIBLE FOR SERVICING IN THE LOCATIONS LISTED IN THE C.B.C., CHAPTER 7 AND SHALL BE IN ACCORDANCE WITH C.M.C., SECTION 605.
11. FIRE/SMOKE DAMPER ASSEMBLIES, INCLUDING SLEEVES, AND INSTALLATION PROCEDURES SHALL BE APPROVED BY THE BUILDING INSPECTOR PRIOR TO INSTALLATION.
12. ALL FILTERS SHALL BE CERTIFIED BY THE MANUFACTURER AND INSTALLED IN COMPLIANCE WITH SECTIONS 408 OF THE CMC.

MECHANICAL PLAN CHECK NOTES

1. ALL HVAC SYSTEMS SHALL MEET THE CONTROL REQUIREMENTS PER SECTION 110.2 & 120.2 OF THE STATE OF CALIFORNIA BUILDING ENERGY EFFICIENCY STANDARD (E.E.S).
2. ALL DUCTWORK SHALL BE CONSTRUCTED, ERECTED AND TESTED IN ACCORDANCE WITH THE STANDARDS ADOPTED BY SMACNA AND CHAPTER 6 OF THE 2025 C.M.C.
3. ALL DUCTWORK AND PIPING SHALL BE INSULATED CONSISTENT WITH THE REQUIREMENTS OF SECTIONS 120.3, 120.4, AND 120.7 TITLE 24 ENERGY STANDARDS AND CH 6 OF THE CMC 2025.
4. ALL DOORS AND WINDOWS SHALL MEET THE MINIMUM INFILTRATION REQUIREMENTS PER SECTION 110.6 AND 110.7 E.E.S.
5. ALL HVAC EQUIPMENT AND APPLIANCES SHALL MEET THE REQUIREMENTS PER SECTIONS 110.1-110.3, 110.5 & 120.1-120.4 E.E.S.
6. ALL HVAC SYSTEMS SHALL MEET THE VENTILATION REQUIREMENTS PER SECTION 121 E.E.S. - 2025. FOR AIR HANDLERS MOVING GREATER THAN 5000 CFM, PROVIDE AUTOMATIC DAMPERS INTER LOCKED & CLOSED ON FAN SHUT DOWN. ON GRAVITY VENTILATION EITHER AUTOMATIC OR ACCESSIBLE, MANUALLY OPERATED DAMPERS SHALL BE INSTALLED WITH AIR OPENINGS TO THE OUTSIDE, OTHER THAN COMBUSTION AIR OPENINGS.
7. AREA SEPARATION WALLS:
   A. WHERE NONMETALLIC PIPING PENETRATES AREA SEPARATION WALLS, THE PIPE SECTION PASSING THROUGH THE WALLS AND THE FIXTURE CONNECTIONS THERETO SHALL BE OF METAL ONLY. FIRE STOPPING SHALL BE 2025 C.B.C., SECTION 713.3.
   B. NO RANGE HOOD VENTS, DRYER VENTS, COMBUSTION VENTS, OR HEATING DUCTS ARE PERMITTED IN AREA SEPARATION WALLS.
8. PROVIDE SMOKE DETECTORS IN THE SUPPLY DUCT AT HVAC EQUIPMENT EXCEEDING 2000 CFM, FOR REQUIRED SHUT-OFF FOR SMOKE CONTROL AS PER CMC, SECTION 609. DUCT SMOKE DETECTOR ACTIVATION WILL RESULT IN IMMEDIATE LOSS OF POWER TO THE AIR MOVING EQUIPMENT. AIR MOVING EQUIPMENT SHALL BE INTERCONNECTED FOR GLOBAL SHUTDOWN.
9. HVAC SYSTEMS SERVING A SPACE WITH OVER 2,000 CFM SHALL CONFORM TO CMC SECTION 609 - SHUTOFF FOR SMOKE CONTROL. REFERENCE "AIR MOVING SYSTEM" DEFINITION IN CMC SECTION 203.
10. ALL ENVELOPE AND MECHANICAL CERTIFICATE OF ACCEPTANCE FORMS AND ALL RELATED ACCEPTANCE DOCUMENTS SHALL BE SUBMITTED TO THE FIELD INSPECTOR DURING CONSTRUCTION. CERTIFICATE OF OCCUPANCY WILL NOT BE ISSUED UNTIL THESE FORMS ARE REVIEWED AND APPROVED.
11. ROOF ACCESS LADDER SHALL COMPLY WITH SECTION 304 CMC.
12. INSULATION MATERIAL SHALL MEET CALIFORNIA QUALITY STANDARD PER SECTION 110.8 ENERGY EFFICIENCY STANDARD (E.E.S.).
13. THE PERMANENT HVAC SYSTEM SHALL ONLY BE USED DURING CONSTRUCTION IF NECESSARY TO CONDITION THE BUILDING WITHIN THE REQUIRED TEMPERATURE RANGE FOR MATERIAL AND EQUIPMENT INSTALLATION. IF THE HVAC SYSTEM IS USED DURING CONSTRUCTION, RETURN AIR FILTERS WITH A MINIMUM EFFICIENCY REPORTING VALUE (MERV) OF 8, BASED ON ASHRAE 52.2 1999, OR AVERAGE EFFICIENCY OF 30% BASED ON ASHRAE 52.1 1992 SHALL BE USED. ALL FILTERS SHALL BE REPLACED IMMEDIATELY PRIOR TO OCCUPANCY, OR, IF THE BUILDING IS OCCUPIED DURING ALTERATION, AT THE CONCLUSION OF CONSTRUCTION. (CAL GREEN SECTION:5.504.1).
14. AT THE TIME OF ROUGH INSTALLATION AND DURING STORAGE ON THE CONSTRUCTION SITE UNTIL FINAL START-UP OF THE HEATING, COOLING AND VENTILATION EQUIPMENT, ALL DUCT AND WATER RELATED AIR DISTRIBUTION COMPONENT OPENINGS SHALL BE COVERED WITH TAPE, PLASTIC, SHEETMETAL OR OTHER METHODS ACCEPTABLE TO THE ENFORCING AGENCY TO REDUCE THE AMOUNT OF DUST, WATER AND DEBRIS WHICH MAY ENTER THE SYSTEM. (CAL GREEN SECTION:5.504.3).
15. IN THE MECHANICALLY VENTILATED BUILDINGS, REGULARLY OCCUPIED AREAS OF THE BUILDING SHALL BE PROVIDED WITH AIR FILTRATION MEDIA FOR OUTSIDE AND RETURN AIR THAT PROVIDES AT LEAST A MINIMUM EFFICIENCY REPORTING VALUE (MERV) OF 13. MERV 13 FILTERS SHALL BE INSTALLED PRIOR TO OCCUPANCY, AND RECOMMENDATIONS FOR MAINTENANCE WITH FILTERS OF THE SAME VALUE SHALL BE INCLUDED IN THE OPERATION AND MAINTENANCE MANUAL. (CAL GREEN SECTION:5.504.5.3).
16. EXCEPTION TO CAL GREEN SECTION:5.504.5.3 - EXISTING MECHANICAL EQUIPMENT.
17. WHERE OUTDOOR AREAS ARE PROVIDED FOR SMOKING, PROHIBIT SMOKING WITHIN 25 FEET OF BUILDING ENTRIES, OUTDOOR AIR INTAKE AND OPERABLE WINDOWS AND WITHIN THE BUILDING AS ALREADY PROHIBITED BY OTHER LAWS OR REGULATIONS; OR AS ENFORCED BY ORDINANCES, REGULATIONS, OR POLICIES OF ANY CITY, COUNTY, CITY AND COUNTY, CALIFORNIA COMMUNITY COLLEGE, CAMPUS OF THE CALIFORNIA STATE UNIVERSITY, OR CAMPUS OF THE UNIVERSITY OF CALIFORNIA, WHICHEVER ARE MORE STRINGENT. WHEN ORDINANCES, REGULATIONS AND POLICIES ARE NOT IN PLACE, POST SIGNAGE TO INFORM BUILDING OCCUPANTS OF THE PROHIBITIONS.
18. MECHANICALLY OR NATURALLY VENTILATED SPACES IN BUILDINGS SHALL MEET THE MINIMUM REQUIREMENTS OF SECTION 120.1 (REQUIREMENTS FOR VENTILATION) OF THE 2025 CALIFORNIA ENERGY CODE, OR THE APPLICABLE LOCAL CODE, WHICHEVER IS MORE STRINGENT, AND DIVISION 1, CHAPTER 4 OF CCR, TITLE 8 (CAL GREEN SECTION:5.506.1).
19. FOR BUILDINGS EQUIPPED WITH DEMAND CONTROL VENTILATION, CO2 SENSORS AND VENTILATION CONTROLS SHALL BE SPECIFIED AND INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS OF 2025 CALIFORNIA ENERGY CODE, SECTION 120.1(c)(4). (CAL GREEN SECTIONS:5.506.2).
20. INSTALLATIONS OF HVAC, REFRIGERATION AND FIRE SUPPRESSION EQUIPMENT SHALL COMPLY WITH SECTION 5.508.1.1 AND 5.508.1.2. HVAC, REFRIGERATION AND FIRE SUPPRESSION EQUIPMENT SHALL NOT CONTAIN CHLOROFLUOROCARBONS (CFC's) (SECTION:5.508.1.1) AND SHALL NOT CONTAIN HALONS (SECTION:5.508.1.2).
21. MATERIALS EXPOSED WITHIN A DUCT OR PLENUM SHALL COMPLY WITH SECTION 602.2 CMC.
22. EXHAUST DUCTS SHALL BE EQUIPPED WITH BACKDRAFT DAMPERS PER SEC. 504.1.1 CMC.
23. IN ADDITION TO TESTING AND ADJUSTING, BEFORE A NEW SPACE CONDITIONING SYSTEM SERVING A BUILDING OR SPACE IS OPERATED FOR NORMAL USE, BALANCE THE SYSTEM IN ACCORDANCE WITH THE PROCEDURES DEFINED BY THE TESTING ADJUSTING & BALANCING BUREAU NATIONAL STANDARDS; THE NATIONAL ENVIRONMENTAL BALANCING BUREAU PROCEDURAL STANDARDS; OR ASSOCIATED AIR BALANCE COUNCIL NATIONAL STANDARDS.

MECHANICAL LEGEND

SYMBOL	ABBR.	DESCRIPTION
	C.D.	CEILING DIFFUSER - SUPPLY AIR
	R.G.	RETURN AIR GRILLE
	T.A.G.	TRANSFER AIR GRILLE
	E.G.	EXHAUST AIR GRILLE
	S.A.	SUPPLY AIR DUCT
	R.A.	RETURN AIR DUCT
	E.A.	EXHAUST AIR DUCT
	-	DUCT WITH SOUND INSULATION
	S.F.D.	SMOKE / FIRE DAMPER
	M.V.D.	MANUAL VOLUME DAMPER
	-	FLEXIBLE DUCT CONNECTION
	-	DUCT RISE / DUCT DROP
	-	CAPPED DUCT OR PIPE
	-	FLEXIBLE DUCT WORK
	-	DUCT WORK TRANSITION
	T.V.	RECTANGULAR DUCT W/ TURNING VANES
	U.C.	UNDERCUT DOOR 1"
T X	-	THERMOSTAT & EQUIP. MARK NUMBER
S X	-	WALL MOUNTED ON/OFF SWITCH.
SD	-	SMOKE DETECTOR
	O.A.	OUTSIDE AIR
	N.O.	NORMALLY OPEN
	N.C.	NORMALLY CLOSED
	P.D.	PRESSURE DROP
	C.A.	COMBUSTION AIR
	A.F.F.	ABOVE FINISHED FLOOR
	U.T.R.	UP THROUGH ROOF
	W/	WITH
	U.N.O.	UNLESS NOTED OTHERWISE
	SWS	SIDEWALL SUPPLY REGISTER
	SWR	SIDEWALL RETURN REGISTER
	P.O.C.	POINT OF CONNECTION

EQUIPMENT TYPE — HP X — UNIT NUMBER

JENNIFER ROBINSON ARCHITECTS
8218 ROYAL GORGE DRIVE
SAN DIEGO, CA 92119
619.571.9114

LICENSED ARCHITECT — JENNIFER R. ROBINSON — C30540 — REN. 6-30-2027 — STATE OF CALIFORNIA

ALL IDEAS, ARRANGEMENTS AND PLANS INDICATED OR REPRESENTED BY THIS DRAWING ARE OWNED BY, AND THE PROPERTY OF JENNIFER ROBINSON ARCHITECTS AND WERE CREATED, EVOLVED AND DEVELOPED FOR THE USE ON, AND IN CONNECTION WITH, THE SPECIFIED PROJECT. NONE OF SUCH IDEAS, DESIGNS, ARRANGEMENTS OR PLANS SHALL BE USED BY, OR DISCLOSED TO ANY PERSON, FIRM OR CORPORATION FOR ANY PURPOSE WHATSOEVER WITHOUT THE WRITTEN PERMISSION OF JENNIFER ROBINSON ARCHITECTS.

AKA HEADSTART, INC. DAY CARE
SITE & TENANT IMPROVEMENTS
698 W. MADISON AVENUE, EL CAJON, CA 92020

ISSUE	DATE
☐ PLANCHECK SUBMITTAL	26 MAR 2026
⚠ RECHECK DRAWINGS	22 JUNE 2026

REGISTERED PROFESSIONAL ENGINEER — TREVOR S. PROPST — M 42119 — MECHANICAL — STATE OF CALIFORNIA

MDC MARINO DESIGN CONSULTING INC.
2615 CAMINO DEL RIO S. SUITE 402
SAN DIEGO, CA 92108
PH: 619-550-2615
www.mdcmechanical.com

MECHANICAL SCHEDULES, LEGEND, AND NOTES

M001

SHEET OF 65

STATE OF CALIFORNIA
Mechanical Systems
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE NRCC-MCH-E
Project Name: Headstart Child Care Center | **Report Page:** (Page 4 of 22)
Date Prepared: 2026-03-20T15:58:23-04:00

F. HVAC SYSTEM SUMMARY (DRY & WET SYSTEMS)

Dry System Equipment Efficiency (other than Package Terminal Air Conditioners (PTAC) and Package Terminal Heat Pumps (PTHP), DX-DOAS and Dual Fuel Heat Pumps)

01	02	03	04	05	06	07	08	09	10
		Heating Mode		Cooling Mode					
Name or Item Tag	Size Category (Btu/h)	Rating Condition (°F)	Efficiency Unit	Minimum Efficiency Required per Tables 110.2 / Title 20	Design Efficiency	Refrigerant Loop Heat Recovery	Efficiency Unit	Minimum Efficiency Required per Tables 110.2 / Title 20	Design Efficiency
HP-1, HP-2	<65,000		HSPF2	Federal Minimum	6.9		SEER2	Federal Minimum	14.3
HP-3, HP-4, HP-6, HP-8	<65,000		HSPF2	Federal Minimum	7.1		SEER2	Federal Minimum	14.5
HP-5	<65,000		HSPF2	Federal Minimum	6.7		SEER2	Federal Minimum	13.4
HP-7	<65,000		HSPF2	Federal Minimum	6.7		SEER2	Federal Minimum	13.4

Mechanical Heat Recovery§140.4(s)

01	02	03	04	05	06	07
Name or Item Tag	Coincident Peak Cooling Load of All High Load Spaces (kBtu/h)	Design Capacity of All Mechanical Cooling Systems[1] (kBtu/h)	Design Capacity of All Service Water Heating Systems[1] (kBtu/h)	Design Capacity for all space heating systems (kBtu/h)	Simultaneous Mechanical Heat Recovery	
Whole Building	246.9	339.5	61.3	291.1	Not Required	

[1] *FOOTNOTES: Excluding systems expected to operate less than 5 hours per week.*
[2] *FOOTNOTES: If the design includes capacity for future cooling systems, then assume 20% of future systems serve high load spaces.*

G. PUMPS

This section does not apply to this project.

STATE OF CALIFORNIA
Mechanical Systems
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE NRCC-MCH-E
Project Name: Headstart Child Care Center | **Report Page:** (Page 1 of 22)
Project Address: | **Date Prepared:** 2026-03-20T15:58:23-04:00

A. GENERAL INFORMATION

01	Project Location (city)	El Cajon	04	Total Conditioned Floor Area	10050
02	Climate Zone	10	05	Total Unconditioned Floor Area	0
03	Occupancy Types Within Project:		06	# of Stories (Habitable Above Grade)	1

★ All Other Occupancies

B. PROJECT SCOPE

This table includes mechanical systems or components that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in §140.4, §170.2(b) or §141.0(b)2 and §180.2(b)2 for alterations.

01	02	03
Air System(s)	Wet System Components	Dry System Components
☒ Heating Air System	☐ Water Economizer	☒ Air Economizer
☒ Cooling Air System	☐ Pumps	☐ Electric Resistance Heat
☒ Ventilation (including DOAS, ERV, HRV systems)	☐ System Piping	☒ Fan Systems
Mechanical Controls	☐ Cooling Towers	☒ Ductwork (existing to remain, altered or new)
	☐ Chillers	
☒ Mechanical Controls (existing to remain, altered or new)	☐ Boilers	☐ Zonal Systems/ Terminal Boxes

STATE OF CALIFORNIA
Envelope Component Approach
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE NRCC-ENV-E
Project Name: Headstart Child Care Center | **Report Page:** (Page 4 of 6)
Date Prepared: 2026-03-19T19:52:06-04:00

K. FENESTRATION AND GLAZED DOOR SCHEDULE

Vertical Fenestration And Glazed Doors- U-factor, Solar Heat Gain Coefficient (RSHGC/ SHGC), Visible Transmittance (VT)

04	05	06	07	08	09	10	11	12	13
Tag/Plan Detail ID	Fenestration Type	Occupancy & Status	U-factor/ (RSHGC Compliance Method	VT Compliance Method	Calculation Method for Performance Values per Design[2]	Product Performance Unit	Required Product Performance	Product Performance per Design	Area ft²
New West Storefront Door	Glazed door	Nonresidential/ Relocatable 1 CZ: : Alt. (Replacement <= 150ft2)			NFRC Certified	U-factor (max)	0.47	0.47	54
						(R)SHGC (max)			
						VT (min)			

[1] *FOOTNOTES: If any individual fenestration product is non-compliant, products may show compliance using an area-weighted calculation. Chromogenic glazing is not included in area-weighted calculations. Area-weighted calculation shown in separate area-weighted table below.*
[2] *The NA6 Default Calculation can only be used for alterations or dwelling units in buildings with <= 3 habitable stories. Alterations are limited to 200ft² of site built glazing and dwelling units are limited to 25ft² or 5% of conditioned floor area. If the fenestration does not meet these conditions, the only options for determining fenestration values are NFRC Certification or the Default Tables in §110.6.*
[3] *Overhangs must extend past the left and right window the same distance as the depth of the overhang or greater to show an affect on the RSHGC. If an overhang does not meet this requirement, the affect of the overhang will be ignored.*
[4] *Projecting includes casement and awning windows.*

L. DAYLIGHT IN LARGE ENCLOSED SPACES

This section does not apply to this project.

M. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Selections have been made based on information provided in this document. If any selection have been changed by the permit applicant, an explanation should be included in Table E Additional Remarks. These documents must be provided to the building inspector during construction and can be found online

Form/Title
NRCI-ENV-E - Must be submitted for all buildings

STATE OF CALIFORNIA
Envelope Component Approach
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE NRCC-ENV-E
This document is used to demonstrate compliance with mandatory requirements in §110.8(g) and §120.7(b)/ §160.1 for newly constructed nonresidential, hotel/ motel, multifamily and mixed-use buildings, and §141.0(b)1/ §180.2 for alterations, related to roof, wall and floor assemblies. It is also used to demonstrate compliance with prescriptive requirements in §140.3/ §170.2 for newly constructed buildings, and §141.0/ §180.1/ §180.2 for additions and alterations, related to roof, wall, floor, door, fenestration and daylighting requirements.
Project Name: Headstart Child Care Center | **Report Page:** (Page 1 of 6)
Project Address: | **Date Prepared:** 2026-03-19T19:52:06-04:00

A. GENERAL INFORMATION

01	Project Location (city)	El Cajon	05	# of Stories (Habitable Above Grade)	1
02	Zipcode	92020	06	Total Conditioned Floor Area (ft²)	10050
03	Climate Zone	10	07	Total Unconditioned Floor Area (ft²)	0
04	Occupancy Types Within Project: (select all that apply): If one occupancy constitutes >= 80% of the conditioned floor area, the entire building envelope may be designed to comply with the provisions of that occupancy per § 100.0(f).		08	☐ Project includes unconditioned enclosed space(s) > 5,000 ft² under a roof with a ceiling height of at least 15 ft. [1]	

★ School or Classroom

[1] *FOOTNOTE: Enclosed spaces > 5,000 ft² directly under roof with ceiling height > 15 ft in climate zones 2 through 15 are required to meet the minimum daylighting requirements defined in §140.3(c)/ §170.2(b). Compliance with §140.3(c)/ §170.2(b) is documented in Table L. This is the only prescriptive requirement which applies to unconditioned spaces.*

B. PROJECT SCOPE

This table specifies project envelope components within the permit application demonstrating compliance using the prescriptive paths outlined in §140.3/ §170.2 and §141.0(c)1/ §180.1 and §141.0(b)1 and 2/ §180.2 for additions and alterations.

My project consists of (check all that apply)			Component Types				
			01			02	
☐	New Construction or Newly Conditioned Space	☐	Roof	☐	Walls	☐	Exterior Opaque Doors
☐	One or more enclosed spaces > 5,000 ft² directly under roof with ceiling height > 15ft			☐	Floors	☐	Fenestration/ Glazed Doors[1]
☐	Addition of conditioned space	☐	Roof	☐	Walls	☐	Exterior Opaque Doors
☐	One or more enclosed spaces > 5,000 ft² directly under roof with ceiling height > 15ft						
☐	Addition is <=700 ft²			☐	Floors	☐	Fenestration/ Glazed Doors[1]
☐	Addition is >700 ft²						
☒	Alteration of conditioned space	☐	Roof Assembly	☐	Walls	☒	Exterior Opaque Doors
☐	One or more enclosed spaces > 5,000 ft² directly under roof with ceiling height > 15ft and lighting system installed for the first time	☐	Roofing Material [2]	☐	Floors	☒	Fenestration

STATE OF CALIFORNIA
Mechanical Systems
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE NRCC-MCH-E
Project Name: Headstart Child Care Center | **Report Page:** (Page 5 of 22)
Date Prepared: 2026-03-20T15:58:23-04:00

H. FAN SYSTEMS & AIR ECONOMIZERS

This table is used to demonstrate compliance with prescriptive requirements found in §140.4(c), §140.4(e), §140.4(m), §170.2(c)3, and §170.2)c)4A for fan systems. Fan systems serving only process loads are exempt from these requirements and do not need to be included in Table H.

System Name	HP-1, HP-2	Quantity	2	Fan System Status	New	System Zoning	all other systems	Serving Dwelling Units?	Not Serving Dwelling Units	Fan System Airflow (cfm)	2,250	Site Elevation	423	Economizer	Fixed Enthalpy
01	02	03	04			05		06	07	08	09			10	11

					Allowance			Design		
Fan Name or Item Tag	Fan Type	Qty	Component	Airflow through Component (%)	Water Gauge (w.g)	Component Allowance (watt/cfm)	Fan Allowance (watt/cfm)[1]	Design Electrical Input Power Method	Motor Nameplate Horsepower	Fan Electrical Input Power (kW)
HP-1, HP-2	Supply	1	Hydronic/DX cooling coil or heat pump coil	100		0.139	0.324	Manufacturer provided		1.15
			MERV 13-16 Filter upstream of thermal conditioning equipment	100		0.139				
			Economizer Return Damper	100		0.046				
Supply Fan Base Allowance (watt/cfm)		0.232	Exhaust/Return/Relief/Transfer Fan Base Allowance(watt/cfm)	0		Fan System Allowance (kW)[1]		1.25	Fan System Electrical Input Power (kW)	1.15

STATE OF CALIFORNIA
Mechanical Systems
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE NRCC-MCH-E
Project Name: Headstart Child Care Center | **Report Page:** (Page 2 of 22)
Date Prepared: 2026-03-20T15:58:23-04:00

C. COMPLIANCE RESULTS

Table C will indicate if the project data input into the compliance document is compliant with mechanical requirements. This table is not editable by the user. If this table says "DOES NOT COMPLY" or "COMPLIES with Exceptional Conditions" refer to Table D., or the table indicated as not compliant for guidance.

01		02		03		04		05		06		07		08	09
System Summary §110.1, §110.2, §140.4, §170.2(c), §141.0(b); §180.2(b)2	AND	Pumps §140.4(n), §170.2(c)4i	AND	Fans/economizers §140.4(c), §140.4(e), §140.4(g), §170.2(c)	AND	System Controls § 110.2, §120.2, §140.4(f), §140.4(i), §170.2(c)	AND	Ventilation §120.1, §160.2	AND	Terminal Box Controls §140.4(d), §170.2(c)4B	AND	Distribution §120.3, §140.4(l), §160.2, §160.3, §141.0(b)2D, §180.2(b)2B-1	AND	Cooling Towers §110.2(e)2	Compliance Results
[See Table F]		[See Table G]		[See Table H]		[See Table I]		[See Table J]		[See Table K]		[See Table L]		[See Table M]	
Yes	AND		AND	Yes	AND	Yes	AND	Yes	AND		AND	Yes	AND		COMPLIES
Mandatory Measures Compliance [See Table Q for Details]															COMPLIES

D. EXCEPTIONAL CONDITIONS

This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.

E. ADDITIONAL REMARKS

This table includes remarks made by the permit applicant to the Authority Having Jurisdiction.

F. HVAC SYSTEM SUMMARY (DRY & WET SYSTEMS)

Space Conditioning System Information

01	02	03	04	05	06
System Name	Quantity	System Serving	System Status	Space Type	Utilizing Recovered Heat
HP-1, HP-2	2	Single zone	New	All Other Occupancies	☐
HP-3, HP-4, HP-6, HP-8	4	Single zone	New	All Other Occupancies	☐

STATE OF CALIFORNIA
Envelope Component Approach
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE NRCC-ENV-E
Project Name: Headstart Child Care Center | **Report Page:** (Page 5 of 6)
Date Prepared: 2026-03-19T19:52:06-04:00

N. DECLARATION OF REQUIRED CERTIFICATES OF COMPLIANCE

Selections have been made based on information provided in previous tables of this document. If any selection needs to be changed, form user must provide an explanation in Table E Additional Remarks. These documents must be provided to the building inspector during construction and can be found online at https://www.energy.ca.gov/programs-and-topics/programs/building-energy-efficiency-standards/2025-building-energy-efficiency-4. Individuals who perform the field testing and verification work, and provide the information required for completion of the fenestration Certificate of Acceptance documentation are not required to be licensed professionals. However, the person who signs the Certificate of Acceptance document to certify compliance with the acceptance requirements shall be licensed as specified in Standards Section 10-103(a)4 and NA7.3.1

Form/Title	Systems/Spaces To Be Field Verified
NRCA-ENV-02-F must be submitted for all new, added or altered site built fenestration.	New West Storefront Door

O. DECLARATION OF REQUIRED CERTIFICATES OF VERIFICATION

There are no forms required for this project.

STATE OF CALIFORNIA
Envelope Component Approach
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE NRCC-ENV-E
Project Name: Headstart Child Care Center | **Report Page:** (Page 2 of 6)
Date Prepared: 2026-03-19T19:52:06-04:00

B. PROJECT SCOPE

[1] *FOOTNOTE: Doors that are more than 25% glass in area are considered Glazed Doors and should be documented on table K with fenestration.*
[2] *Roof recovers and replacements must also check "Roof Assembly" box and document compliance with insulation requirements in Table F. Roof recoats may document compliance with roof material only in Table G.*

C. COMPLIANCE RESULTS

Results in this table are automatically calculated from data input and calculations in Tables F through L. Note: If any cell on this table says "COMPLIES with Exceptional Conditions" refer to Table D. Exceptional Conditions for guidance or see the applicable table referenced below.

Opaque Envelope Components					Fenestration	Daylighting Spaces > 5,000ft²	Compliance Results
Roof Assembly	Roofing Materials	Walls	Floors	Doors			
01	02	03	04	05	06	07	08
(See Table F)	(See Table G)	(See Table H)	(See Table I)	(See Table J)	(See Table K)	(See Table L)	COMPLIES
				Yes	Yes		

D. EXCEPTIONAL CONDITIONS

This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.

E. ADDITIONAL REMARKS

This table includes remarks made by the permit applicant to the Authority Having Jurisdiction.

F. ROOF ASSEMBLY SCHEDULE

This section does not apply to this project.

G. RATED ROOFING MATERIAL (COOL ROOF)

This section does not apply to this project.

STATE OF CALIFORNIA
Mechanical Systems
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE NRCC-MCH-E
Project Name: Headstart Child Care Center | **Report Page:** (Page 3 of 22)
Date Prepared: 2026-03-20T15:58:23-04:00

H. FAN SYSTEMS & AIR ECONOMIZERS

System Name	HP-3, HP-4, HP-6, HP-8	Quantity	4	Fan System Status	New	System Zoning	all other systems	Serving Dwelling Units?	Not Serving Dwelling Units	Fan System Airflow (cfm)	1,050	Site Elevation	423	Economizer	Fixed Enthalpy
01	02	03	04			05		06	07	08	09			10	11

					Allowance			Design		
Fan Name or Item Tag	Fan Type	Qty	Component	Airflow through Component (%)	Water Gauge (w.g)	Component Allowance (watt/cfm)	Fan Allowance (watt/cfm)[1]	Design Electrical Input Power Method	Motor Nameplate Horsepower	Fan Electrical Input Power (kW)
HP-3, HP-4, HP-6, HP-8	Supply	1	Hydronic/DX cooling coil or heat pump coil	100		0.139	0.324	Manufacturer provided		0.73
			MERV 13-16 Filter upstream of thermal conditioning equipment	100		0.139				
			Economizer Return Damper	100		0.046				
Supply Fan Base Allowance (watt/cfm)			Exhaust/Return/Relief/Transfer Fan Base Allowance(watt/cfm)			Fan System Allowance (kW)[1]			Fan System Electrical Input Power (kW)	0.73

STATE OF CALIFORNIA
Mechanical Systems
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE NRCC-MCH-E
Project Name: Headstart Child Care Center | **Report Page:** (Page 3 of 22)
Date Prepared: 2026-03-20T15:58:23-04:00

F. HVAC SYSTEM SUMMARY (DRY & WET SYSTEMS)

Space Conditioning System Information

01	02	03	04	05	06
System Name	Quantity	System Serving	System Status	Space Type	Utilizing Recovered Heat
HP-5	1	Single zone	New	All Other Occupancies	☐
HP-7	1	Single zone	New	All Other Occupancies	☐

Dry System Equipment Sizing (includes air conditioners, condensers, heat pumps, VRF, furnaces and unit heaters and DOAS systems)

01	02	03	04	05	06	07	08	09	10	11
				Equipment Sizing per Mechanical Schedule (kBtu/h) §140.4(a&b), §170.2(c)1 & §170.2(c)2						
					Heating Output [2,3]			Cooling Output [2,3]	Load Calculations [3,4]	
Name or Item Tag	Equipment Category per Tables 110.2, §140.4(a)2 and 170.2(c)3ai	Equipment Type per Tables 110.2 and Title 20	Smallest Size Available [1] §140.4(a) and §170.2(c)1	Per Design (kBtu/h)	Rated (kBtu/h)	Supp. Heating Output (kBtu/h)	Sensible Per Design (kBtu/h)	Rated (kBtu/h)	Total Heating Load (kBtu/h)	Total Sensible Cooling Load (kBtu/h)
HP-1, HP-2	Unitary Heat Pumps (no elec. resistance)	Air-cooled, pkg (3 phase)	Yes	46	46	0	50.1	65	46	50.1
HP-3, HP-4, HP-6, HP-8	Unitary Heat Pumps (no elec. resistance)	Air-cooled, pkg (3 phase)	Yes	35	35	0	31	36	35	31
HP-5	Unitary Heat Pumps (no elec. resistance)	Air-cooled, pkg (1phase)	Yes	35.1	35.1	0	21.4	36	35.1	21.4
HP-7	Unitary Heat Pumps (no elec. resistance)	Air-cooled, pkg (1phase)	Yes	24	24	0	17.1	24	24	17.1

[1] *FOOTNOTES: Equipment shall be the smallest size, within the available options of the desired equipment line, necessary to meet the design heating and cooling loads of the building per §140.4(s) and §170.2(c)1. Heathcare facilities are excepted.*
[2] *It is common practice to show rated output capacity on the equipment schedule. Sensible cooling output comes from specification sheet tables.*
[3] *If equipment is heating only, leave cooling output and load blank. If equipment is cooling only, leave heating output and load blank.*
[4] *Authority Having Jurisdiction may ask for load calculations used for compliance per §140.4(b) and §170.2(c).*

STATE OF CALIFORNIA
Envelope Component Approach
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE NRCC-ENV-E
Project Name: Headstart Child Care Center | **Report Page:** (Page 6 of 6)
Project Address: | **Date Prepared:** 2026-03-19T19:52:06-04:00

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name:		Documentation Author Signature:	
Tracey Lopez			T.L.
Company:	MARINO DESIGN CONSULTING, INC	Signature Date:	03-20-26
Address:	2615 CAMINO DEL RIO SOUTH, SUITE 402	CEA/ANA/ECC Certification Identification (if applicable):	
City/State/Zip:	SAN DIEGO, CA 92108	Phone:	619-550-2615

RESPONSIBLE PERSON'S DECLARATION STATEMENT

I certify the following under penalty of perjury, under the laws of the State of California:

1. The information provided on this Certificate of Compliance is true and correct.
2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer)
3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.

Responsible Person Name:	TREVOR PROPHET	Responsible Person Signature:	
Responsible Person Scope:			
Company:	MARINO DESIGN CONSULTING, INC	Date Signed:	03-20-26
Address:	2615 CAMINO DEL RIO SOUTH, SUITE 402	License:	M42119
City/State/Zip:	SAN DIEGO, CA 92108	Phone:	619-550-2615

STATE OF CALIFORNIA
Envelope Component Approach
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE NRCC-ENV-E
Project Name: Headstart Child Care Center | **Report Page:** (Page 3 of 6)
Date Prepared: 2026-03-19T19:52:06-04:00

H. WALL ASSEMBLY SCHEDULE

This section does not apply to this project.

I. FLOOR ASSEMBLY SCHEDULE

This section does not apply to this project.

J. EXTERIOR DOOR SCHEDULE

This table demonstrates compliance with prescriptive exterior door requirements in §140.3(a)7/ §170.2(e)4 for new construction or additions. Doors which are being replaced (alterations) do not need to be documented in this table because there are no Title 24, Part 6 requirements that apply. Exterior doors separate conditioned space from unconditioned space or from ambient air. Doors that are more than 25% glass in area are considered Glazed Doors and should be documented on Table K with fenestration per Table B.

Exterior Opaque Doors

01	02	03	04	05	06	07
Tag/Plan Detail ID	Name/Description	Occupancy Type	Door Type	Door Insulation	Maximum Allowed U-factor	U-factor per Design

K. FENESTRATION AND GLAZED DOOR SCHEDULE

This table demonstrates compliance with prescriptive fenestration requirements in §140.3(a)5/ §170.2(e)3 for new constructions, §141.0(a)/ §180.1 for additions, or §141.0(b)2A/ §180.2 for alterations. Exterior doors that are more than 25% glass in area are considered Glazed Doors and should be documented on this table with fenestration.

01 [indicate fenestration types included in the project:] ☒ Vertical (alterations) ☐ Vertical (new) ☐ Skylights ☐ Glazed Doors (new only)

[1] *FOOTNOTES: Fenestration types indicated above as "(new only)" do not have Title 24, Part 6 requirements for alterations. New construction and additions do have requirements and should be clicked above and compliance demonstrated within this table.*

Vertical Fenestration And Glazed Doors- U-factor, Solar Heat Gain Coefficient (RSHGC/ SHGC), Visible Transmittance (VT)

01	☐	Calculate Area-Weighted Average U-factor for Vertical Fenestration and Glazed Doors[1]
02	☐	Calculate Area-Weighted Average (R)SHGC for Vertical Fenestration and Glazed Doors[1]
03	☐	Calculate Area-Weighted Average VT for Vertical Fenestration and Glazed Doors[1]

JENNIFER ROBINSON ARCHITECTS
8218 ROYAL GORGE DRIVE
SAN DIEGO, CA 92119
619.571.9114

LICENSED ARCHITECT JENNIFER R. ROBINSON C30540 REN. 6-30-2027 STATE OF CALIFORNIA

ALL IDEAS, ARRANGEMENTS AND PLANS INDICATED OR REPRESENTED BY THIS DRAWING ARE OWNED BY, AND THE PROPERTY OF JENNIFER ROBINSON ARCHITECTS AND WERE CREATED, EVOLVED AND DEVELOPED FOR THE USE ON, AND IN CONNECTION WITH, THE SPECIFIED PROJECT. NONE OF SUCH IDEAS, DESIGNS, ARRANGEMENTS OR PLANS SHALL BE USED BY, OR DISCLOSED TO ANY PERSON, FIRM OR CORPORATION FOR ANY PURPOSE WHATSOEVER WITHOUT THE WRITTEN PERMISSION OF JENNIFER ROBINSON ARCHITECTS.

AKA HEADSTART, INC. DAY CARE
SITE & TENANT IMPROVEMENTS
698 W. MADISON AVENUE, EL CAJON, CA 92020

ISSUE	DATE
☐ PLANCHECK SUBMITTAL	26 MAR 2026
⚠ RECHECK DRAWINGS	22 JUNE 2026

REGISTERED PROFESSIONAL ENGINEER TREVOR S. PROPHET M 42119 MECHANICAL STATE OF CALIFORNIA

MDC MARINO DESIGN CONSULTING INC.
2615 CAMINO DEL RIO S. SUITE 402
SAN DIEGO, CA 92108
PH: 619-550-2615
www.mdcmechanical.com

MECHANICAL T-24

M002

SHEET OF 65

J. VENTILATION AND INDOOR AIR QUALITY

Potty	Toilet, public	47	2	0	7.05			50	DCV	NA: Not required per §120.1(d)3
									Occ Sensor	NA: Not required space type
17	Total System Required Min OA CFM				129.69	18	Ventilation for this System Complies?			Yes
04		05				06		07		
System Name	HP-7	System Design OA CFM Airflow[1]		270	System Design Transfer Air CFM		0	Air Filtration per §120.1(c) §141.0(b)2 and §160.2(c)21 [2]		
								Provided		
08	09	10	11	12	13	14	15	16		
Space Name or Item Tag	Mechanical Ventilation Required per §120.1(c)3[3] & §160.2(c)3				Exh. Vent per §120.1(c)4 & §160.2(c)4			DCV or Sensor Controls per §120.1(d)3, §120.1(d)5, and §120.1(e)3[4] §160.2(c)5D §160.2(c)5E §160.2(c)5D		
	Occupancy Type[4]	Conditioned Floor Area (ft²)	# of Shower heads/ toilets	# of people [5]	Required Min OA CFM	Required Min CFM	Provided per Design CFM			
EHS Classroom #3	Daycare (through age 4)	292		4	61.32				DCV	NA: Not required per §120.1(d)3
									Occ Sensor	NA: Not required space type
EHS Classroom #4	Daycare (through age 4)	292		4	61.32				DCV	NA: Not required per §120.1(d)3
									Occ Sensor	NA: Not required space type
Potty	Toilet, public	47	2	0	7.05			50	DCV	NA: Not required per §120.1(d)3
									Occ Sensor	NA: Not required space type
17	Total System Required Min OA CFM				129.69	18	Ventilation for this System Complies?			Yes

J. VENTILATION AND INDOOR AIR QUALITY

Break & Work Room	Break room	285		6	90				DCV	NA: Not required per §120.1(d)3
									Occ Sensor	NA: Not required space type
Center Director	Office space	120		1	18				DCV	NA: Not required per §120.1(d)3
									Occ Sensor	NA: Not required space type
Storage + Jan + Laundry	Janitor closet	191		0	28.65		200		DCV	NA: Not required per §120.1(d)3
									Occ Sensor	NA: Not required space type
Restrooms	Toilet (public) - cont. exh.	224	5	0	33.6		500		DCV	NA: Not required per §120.1(d)3
									Occ Sensor	NA: Not required space type
17	Total System Required Min OA CFM				237.6	18	Ventilation for this System Complies?			Yes
04		05				06		07		
System Name	HP-4	System Design OA CFM Airflow[1]		520	System Design Transfer Air CFM		0	Air Filtration per §120.1(c) §141.0(b)2 and §160.2(c)21 [2]		
								Provided		
08	09	10	11	12	13	14	15	16		
Space Name or Item Tag	Mechanical Ventilation Required per §120.1(c)3[3] & §160.2(c)3				Exh. Vent per §120.1(c)4 & §160.2(c)4			DCV or Sensor Controls per §120.1(d)3, §120.1(d)5, and §120.1(e)3[4] §160.2(c)5D §160.2(c)5E §160.2(c)5D		
	Occupancy Type[4]	Conditioned Floor Area (ft²)	# of Shower heads/ toilets	# of people [5]	Required Min OA CFM	Required Min CFM	Provided per Design CFM			

Fan Energy Index (FEI)

HP-7	Embedded Fan <5HP or <4.1kW	

I. SYSTEM CONTROLS

This table is used to demonstrate compliance with mandatory controls in §110.2 and §120.2 and prescriptive controls in §140.4(f) and (n), §170.2(c)4D §170.2(c)4L or requirements in §141.0(b)2E §180.2(b)2 for altered space conditioning systems.

01	02	03	04	05	06	07	08	09	10	11
System Name	System Zoning	Conditioned Floor Area Being Served (ft²)	Thermostats §110.2(b) & (c)[1], §120.2(a) §160.3(a)2A or §160.3(b)B or §141.0(b)2E & §180.2(b)2	Shut-Off Controls §120.2(a) & §160.3(a) 2D	Isolation Zone Controls §120.2(g) & §160.3(a) 2F	Demand Response §110.12 §120.2(b) & §160.3(a)2B	Supply Air Temp Reset §140.4(f) & §170.2(c)4D	Window Interlocks per §140.4(n) & §170.2(c)4D	Direct Digital Control (DDC) per §120.2	Heat Pump Defrost per §160.3(b)7
ALL	Single zone	<= 25,000 ft²	Setback	Auto Timer Switch	NA: Single Zone	NA: PTAC, PTHP, Rm AC, HP	NA: Single Zone	NA: No operable windows	NA: Single Zone	NA: CZ 1, 6-10, 15 or 16

[1] *FOOTNOTES: Gravity gas wall heaters, gravity floor heaters, gravity room heaters, non-central electric heaters, fireplaces or decorative gas appliances, wood stoves are not required to have setback thermostats.*

J. VENTILATION AND INDOOR AIR QUALITY

This table is used to demonstrate compliance with mandatory ventilation requirements in §120.1 § 120.2(e)3B § 140.4(p) and § 140.4(q) for all nonresidential and hotel/motel and dr24ncfmdcfq1602.2, §160.3(a)3D, §170.2(c)4K) for high-rise residential occupancies. For alterations, only ventilation systems being altered within the scope of the permit application need to be documented in this table. In lieu of this table, the required outdoor ventilation rates and airflows may be shown on the plans or the calculations can be presented in a spreadsheet.

01	☐	Check the box if the project is showing ventilation calculations on the plans, or attaching the calculations instead of completing this table.
02	☒	Check this box if the project included Nonresidential, Hotel/Motel Spaces or Multifamily Common Use Spaces
03	☐	Check the box if the project is using natural ventilation in any nonresidential or hotel/motel spaces to meet required ventilation rates per §120.1(c)2.

Nonresidential and Hotel/ Motel Multifamily Common Use Ventilation Systems

H. FAN SYSTEMS & AIR ECONOMIZERS

System Name	HP-5	Quantity	1	Fan System Status	New	System Zoning	all other systems	Serving Dwelling Units?	Not Serving Dwelling Units	Fan System Airflow (cfm)	1,240	Site Elevation	423	Economizer	Fixed Enthalpy
01	02	03		04			05	06	07	08		09		10	11
									Allowance				Design		
Fan Name or Item Tag	Fan Type	Qty		Component			Airflow through Component (%)	Water Gauge (w.g)	Component Allowance (watt/cfm)	Fan Allowance (watt/cfm)[1]		Design Electrical Input Power Method		Motor Nameplate Horsepower	Fan Electrical Input Power (kW)
HP-5	Supply	1		Hydronic/DX cooling coil or heat pump coil			100		0.139	0.324		Default per Table 140.4-O/141.0-D		<1	0.96
				MERV 13-16 Filter upstream of thermal conditioning equipment			100		0.139						
				Economizer Return Damper			100		0.046						
Supply Fan Base Allowance (watt/cfm)				Exhaust/Return/Relief/Transfer Fan Base Allowance(watt/cfm)					Fan System Allowance (kW)[1]				Fan System Electrical Input Power (kW)		0.96

J. VENTILATION AND INDOOR AIR QUALITY

04		05				06		07		
System Name	HP-8	System Design OA CFM Airflow[1]		410	System Design Transfer Air CFM		0	Air Filtration per §120.1(c) §141.0(b)2 and §160.2(c)21 [2]		
								Provided		
08	09	10	11	12	13	14	15	16		
Space Name or Item Tag	Mechanical Ventilation Required per §120.1(c)3[3] & §160.2(c)3				Exh. Vent per §120.1(c)4 & §160.2(c)4			DCV or Sensor Controls per §120.1(d)3, §120.1(d)5, and §120.1(e)3[4] §160.2(c)5D §160.2(c)5E §160.2(c)5D		
	Occupancy Type[4]	Conditioned Floor Area (ft²)	# of Shower heads/ toilets	# of people [5]	Required Min OA CFM	Required Min CFM	Provided per Design CFM			
EHS Classroom #5	Daycare (through age 4)	290		4	60.9				DCV	NA: Not required per §120.1(d)3
									Occ Sensor	NA: Not required space type
EHS Classroom #6	Daycare (through age 4)	294		4	61.74				DCV	NA: Not required per §120.1(d)3
									Occ Sensor	NA: Not required space type
Potty	Toilet, public	47	2	0	7.05			50	DCV	NA: Not required per §120.1(d)3
									Occ Sensor	NA: Not required space type
Hallway	Corridor	137		0	20.55				DCV	NA: Not required per §120.1(d)3
									Occ Sensor	NA: Not required space type
17	Total System Required Min OA CFM				150.24	18	Ventilation for this System Complies?			Yes

[1] *FOOTNOTES: System CFM should include both mechanical and natural ventilation for the zone/system*

J. VENTILATION AND INDOOR AIR QUALITY

Classroom #2	Daycare (through age 4)	750		20	300				DCV	NA: Not required per §120.1(d)3
									Occ Sensor	NA: Not required space type
Classroom #7	Daycare (through age 4)	338		4	70.98				DCV	NA: Not required per §120.1(d)3
									Occ Sensor	NA: Not required space type
Hallway	Corridor	462		2	69.3				DCV	NA: Not required per §120.1(d)3
									Occ Sensor	NA: Not required space type
17	Total System Required Min OA CFM				440.28	18	Ventilation for this System Complies?			Yes
04		05				06		07		
System Name	HP-5	System Design OA CFM Airflow[1]		345	System Design Transfer Air CFM		0	Air Filtration per §120.1(c) §141.0(b)2 and §160.2(c)21 [2]		
								Provided		
08	09	10	11	12	13	14	15	16		
Space Name or Item Tag	Mechanical Ventilation Required per §120.1(c)3[3] & §160.2(c)3				Exh. Vent per §120.1(c)4 & §160.2(c)4			DCV or Sensor Controls per §120.1(d)3, §120.1(d)5, and §120.1(e)3[4] §160.2(c)5D §160.2(c)5E §160.2(c)5D		
	Occupancy Type[4]	Conditioned Floor Area (ft²)	# of Shower heads/ toilets	# of people [5]	Required Min OA CFM	Required Min CFM	Provided per Design CFM			
Classroom #1	Daycare (through age 4)	750		10	157.5				DCV	NA: Not required per §120.1(d)3
									Occ Sensor	NA: Not required space type

J. VENTILATION AND INDOOR AIR QUALITY

04		05				06		07		
System Name	HP-1	System Design OA CFM Airflow[1]		545	System Design Transfer Air CFM		0	Air Filtration per §120.1(c) §141.0(b)2 and §160.2(c)21 [2]		
								Provided		
08	09	10	11	12	13	14	15	16		
Space Name or Item Tag	Mechanical Ventilation Required per §120.1(c)3[3] & §160.2(c)3				Exh. Vent per §120.1(c)4 & §160.2(c)4			DCV or Sensor Controls per §120.1(d)3, §120.1(d)5, and §120.1(e)3[4] §160.2(c)5D §160.2(c)5E §160.2(c)5D		
	Occupancy Type[4]	Conditioned Floor Area (ft²)	# of Shower heads/ toilets	# of people [5]	Required Min OA CFM	Required Min CFM	Provided per Design CFM			
Resource Room (S)	Office space	478		10	150				DCV	NA: Not required per §120.1(d)3
									Occ Sensor	NA: Not required space type
Food Pantry	Cafeteria/ fastfood dining	250		8	123.75				DCV	NA: Not required per §120.1(d)3
									Occ Sensor	NA: Not required space type
Lounge	Office space	40		1	15				DCV	NA: Not required per §120.1(d)3
									Occ Sensor	NA: Not required space type
Lobby	Main Entry Lobby	70		2	34.65				DCV	NA: Not required per §120.1(d)3
									Occ Sensor	NA: Not required space type
FSA & copy	Computer Lab	160		3	45				DCV	NA: Not required per §120.1(d)3
									Occ Sensor	NA: Not required space type

H. FAN SYSTEMS & AIR ECONOMIZERS

System Name	HP-7	Quantity	1	Fan System Status	New	System Zoning	all other systems	Serving Dwelling Units?	Not Serving Dwelling Units	Fan System Airflow (cfm)	760	Site Elevation	423	Economizer	NA: <=33 kBtu/h cooling
01	02	03		04			05	06	07	08		09		10	11
									Allowance				Design		
Fan Name or Item Tag	Fan Type	Qty		Component			Airflow through Component (%)	Water Gauge (w.g)	Component Allowance (watt/cfm)	Fan Allowance (watt/cfm)[1]		Design Electrical Input Power Method		Motor Nameplate Horsepower	Fan Electrical Input Power (kW)
HP-7	Supply	1		Hydronic/DX cooling coil or heat pump coil			100		0.139	0.278		Default per Table 140.4-O/141.0-D		<1	0.96
				MERV 13-16 Filter upstream of thermal conditioning equipment			100		0.139						
Supply Fan Base Allowance (watt/cfm)				Exhaust/Return/Relief/Transfer Fan Base Allowance(watt/cfm)					Fan System Allowance (kW)[1]				Fan System Electrical Input Power (kW)		0.96

[1] *FOOTNOTES: Fans serving spaces with design background noise goals below NC35*

[2] *Low-turndown single-zone VAV fan system must be capable of and configured to reduce airflow to 50 percent of design airflow and use no more than 30 percent of the design wattage at that airflow. No more than 10 percent of the design load served by the equipment shall have fixed loads.*

[3] *Fan system allowance includes fan system base allowance.*

[4] *Filter pressure loss can only be counted once per fan system.*

[5] *Complex Fan System means a fan system that combines a single cabinet fan system with other supply fans, exhaust fans, or both.*

[6] *Computer room economizers must meet requirements of §140.9(a) and will be documented on the NRCC-PRC-E document.*

[7] *Indoor fans meeting the requirements of 140.4(a)3D shall turn off when there is no demand for heating or cooling in the space. At 66% air flow the power draw shall be no more than 51% of the fan power at full fan speed and at 33% airflow the power draw shall be no more than 12% of the fan power at full fan speed.*

J. VENTILATION AND INDOOR AIR QUALITY

Restroom	Toilet, public	98	4	0	14.7		250		DCV	NA: Not required per §120.1(d)3
									Occ Sensor	NA: Not required space type
Hallway	Corridor	272		1	40.8				DCV	NA: Not required per §120.1(d)3
									Occ Sensor	NA: Not required space type
17	Total System Required Min OA CFM				213	18	Ventilation for this System Complies?			Yes
04		05				06		07		
System Name	HP-6	System Design OA CFM Airflow[1]		270	System Design Transfer Air CFM		0	Air Filtration per §120.1(c) §141.0(b)2 and §160.2(c)21 [2]		
								Provided		
08	09	10	11	12	13	14	15	16		
Space Name or Item Tag	Mechanical Ventilation Required per §120.1(c)3[3] & §160.2(c)3				Exh. Vent per §120.1(c)4 & §160.2(c)4			DCV or Sensor Controls per §120.1(d)3, §120.1(d)5, and §120.1(e)3[4] §160.2(c)5D §160.2(c)5E §160.2(c)5D		
	Occupancy Type[4]	Conditioned Floor Area (ft²)	# of Shower heads/ toilets	# of people [5]	Required Min OA CFM	Required Min CFM	Provided per Design CFM			
EHS Classroom #1	Daycare (through age 4)	294		4	61.74				DCV	NA: Not required per §120.1(d)3
									Occ Sensor	NA: Not required space type
EHS Classroom #2	Daycare (through age 4)	290		4	60.9				DCV	NA: Not required per §120.1(d)3
									Occ Sensor	NA: Not required space type

J. VENTILATION AND INDOOR AIR QUALITY

17	Total System Required Min OA CFM				368.4	18	Ventilation for this System Complies?			Yes
04		05				06		07		
System Name	HP-2	System Design OA CFM Airflow[1]		600	System Design Transfer Air CFM		0	Air Filtration per §120.1(c) §141.0(b)2 and §160.2(c)21 [2]		
								Provided		
08	09	10	11	12	13	14	15	16		
Space Name or Item Tag	Mechanical Ventilation Required per §120.1(c)3[3] & §160.2(c)3				Exh. Vent per §120.1(c)4 & §160.2(c)4			DCV or Sensor Controls per §120.1(d)3, §120.1(d)5, and §120.1(e)3[4] §160.2(c)5D §160.2(c)5E §160.2(c)5D		
	Occupancy Type[4]	Conditioned Floor Area (ft²)	# of Shower heads/ toilets	# of people [5]	Required Min OA CFM	Required Min CFM	Provided per Design CFM			
Resource Room (N)	Office space	2000		40	600				DCV	NA: Not required per §120.1(d)3
									Occ Sensor	NA: Not required space type
17	Total System Required Min OA CFM				600	18	Ventilation for this System Complies?			Yes
04		05				06		07		
System Name	HP-3	System Design OA CFM Airflow[1]		510	System Design Transfer Air CFM		0	Air Filtration per §120.1(c) §141.0(b)2 and §160.2(c)21 [2]		
								Provided		
08	09	10	11	12	13	14	15	16		
Space Name or Item Tag	Mechanical Ventilation Required per §120.1(c)3[3] & §160.2(c)3				Exh. Vent per §120.1(c)4 & §160.2(c)4			DCV or Sensor Controls per §120.1(d)3, §120.1(d)5, and §120.1(e)3[4] §160.2(c)5D §160.2(c)5E §160.2(c)5D		
	Occupancy Type[4]	Conditioned Floor Area (ft²)	# of Shower heads/ toilets	# of people [5]	Required Min OA CFM	Required Min CFM	Provided per Design CFM			
Hallway	Corridor	449		2	67.35				DCV	NA: Not required per §120.1(d)3
									Occ Sensor	NA: Not required space type

H. EXHAUST AIR HEAT RECOVERY 140.4(q), 170.2(c)4O

01	02	03	04	05	06	07	08	09	10	11
Fan System Name	Qty	Hours of Operation per Year	Design Supply Airflow Rate	Outdoor Airflow	% Outdoor Air at Full Design Airflow	Exemptions to Exhaust Air Heat Recovery Requirement per §140.4(q) & §170.2(c)4O	Exhaust Air Heat Recovery §140.4(q) & §170.2(c)4O	Type Of Heat Recovery Rating	Required Recovery Ratio	Energy Recovery Bypass
HP-1, HP-2			2,000	545	27	NA: Total airflow exhausted and relieved within 20ft <75% per Exception 6 to 140.4(q)				
HP-3, HP-4, HP-6, HP-8	4	< 8,000	1,200	510	43	No Exemptions Apply	Not Required			
HP-5	1	< 8,000	1,240	475	38	No Exemptions Apply	Not Required			
HP-7			760	270	36	NA: Total airflow exhausted and relieved within 20ft <75% per Exception 6 to 140.4(q)				

Fan Energy Index (FEI)

01	02	03
Name or Item Tag	FEI Exception	FEI
HP-1, HP-2	Embedded Fan <5HP or <4.1kW	
HP-3, HP-4, HP-6, HP-8	Embedded Fan <5HP or <4.1kW	
HP-5	Embedded Fan <5HP or <4.1kW	

J. VENTILATION AND INDOOR AIR QUALITY

[2] Air filtration requirements apply to the following three system types per §120.1(c)1A: space conditioning systems utilizing ducts to supply air to occupiable space; supply-only ventilation systems providing outside air to occupiable space; supply side of balanced ventilation systems including heat recovery and energy recovery ventilation systems providing outside air to occupiable space.

[3] Uniform Mechanical Code may have more stringent ventilation requirements; the most stringent code requirement takes precedence.

[4] See Standards Tables 120.1-A and 120.1-B.

[5] For lecture halls with fixed seating, the expected number of occupants shall be determined in accordance with the California Building Code.

[6] §120.2(e)3 requires systems serving rooms that are required by §130.1(c) to have lighting occupancy sensing controls to also have occupancy sensing zone controls for ventilation. Examples of spaces which require lighting occupancy sensors include offices 250ft² or smaller, multipurpose rooms less than 1,000 ft², classrooms, conference rooms, restrooms, aisles and open areas in warehouses, library book stack aisles, corridors, stairwells, parking garages, and loading and unloading zones, unless excepted by §130.1(c).

K. TERMINAL BOX CONTROLS

This section does not apply to this project.

L. DISTRIBUTION (DUCTWORK and PIPING)

This table is used to show compliance with mandatory pipe insulation requirements found in §120.3 and mandatory requirements found in §120.4(g) for duct sealing.

01	☐	Insulation shall be protected from damage, including that due to sunlight, moisture, equipment maintenance, and wind. Insulation exposed to weather shall be installed with a cover suitable for outdoor service. Insulation covering chilled water piping and refrigerant suction piping located outside the conditioned space shall have a Class I or Class II vapor retarder. All penetrations and joints of which shall be sealed.

Duct Leakage Testing

The answers to the questions below apply to the following duct systems:	New ductwork	**NR/ Common Use:** Duct leakage testing shall not exceed 6% per NA7.5.3 required for these systems?	No

JENNIFER ROBINSON ARCHITECTS
8218 ROYAL GORGE DRIVE
SAN DIEGO, CA 92119
619.571.9114

LICENSED ARCHITECT JENNIFER R. ROBINSON C30540 6-30-2027 STATE OF CALIFORNIA

ALL IDEAS, ARRANGEMENTS AND PLANS INDICATED OR REPRESENTED BY THIS DRAWING ARE OWNED BY, AND THE PROPERTY OF JENNIFER ROBINSON ARCHITECTS AND WERE CREATED, EVOLVED AND DEVELOPED FOR THE USE ON, AND IN CONNECTION WITH, THE SPECIFIED PROJECT. NONE OF SUCH IDEAS, DESIGNS, ARRANGEMENTS OR PLANS SHALL BE USED BY, OR DISCLOSED TO ANY PERSON, FIRM OR CORPORATION FOR ANY PURPOSE WHATSOEVER WITHOUT THE WRITTEN PERMISSION OF JENNIFER ROBINSON ARCHITECTS.

AKA HEADSTART, INC. DAY CARE SITE & TENANT IMPROVEMENTS

698 W. MADISON AVENUE, EL CAJON, CA 92020

ISSUE	DATE
☐ PLANCHECK SUBMITTAL	26 MAR 2026
⚠ RECHECK DRAWINGS	22 JUNE 2026

REGISTERED PROFESSIONAL ENGINEER TREVOR S. PROPST M 42119 MECHANICAL STATE OF CALIFORNIA

MDC MARINO DESIGN CONSULTING INC.
2615 CAMINO DEL RIO S. SUITE 402
SAN DIEGO, CA 92108
PH: 619-550-2615
www.mdcmechanical.com

MECHANICAL T-24

M003

SHEET OF 65

STATE OF CALIFORNIA
Mechanical Systems CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-MCH-E
Project Name: Headstart Child Care Center	**Report Page:**	**(Page 22 of 22)**
Project Address:	**Date Prepared:**	2026-03-20T15:58:23-04:00

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name:		Documentation Author Signature:	
Tracey Lopez			T L
Company:	MARINO DESIGN CONSULTING, INC.	Signature Date:	03-20-26
Address:	2615 CAMINO DEL RIO SOUTH, SUITE 402	CEA/AEA/ECC Certification Identification (if applicable):	
City/State/Zip:	SAN DIEGO, CA 92108	Phone:	619-550-2615

RESPONSIBLE PERSON'S DECLARATION STATEMENT

I certify the following under penalty of perjury, under the laws of the State of California:

1. The information provided on this Certificate of Compliance is true and correct.
2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer)
3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.

Responsible Person Name:	TREVOR PROPHET	Responsible Person Signature:	
Responsible Person Scope:			
Company:	MARINO DESIGN CONSULTING, INC	Date Signed:	03-20-26
Address:	2615 CAMINO DEL RIO SOUTH, SUITE 402	License:	M42119
City/State/Zip:	SAN DIEGO, CA 92108	Phone:	619-550-2615

STATE OF CALIFORNIA
Mechanical Systems CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-MCH-E
Project Name: Headstart Child Care Center	**Report Page:**	**(Page 19 of 22)**
	Date Prepared:	2026-03-20T15:58:23-04:00

L. DISTRIBUTION (DUCTWORK and PIPING)

		Dwelling Units: Total duct leakage of duct system shall not exceed 12% or duct system to outside shall not exceed 6% per RA3.1.4 required for systems?	---
		Duct leakage testing per CMC Section 603.9.2 required for these systems?	Yes
11	No	The scope of the project includes only duct systems serving healthcare facilities	
12	Yes	Duct system provides conditioned air to an occupiable space for a constant volume, single zone, space-conditioning system.	
13	Yes	The space conditioning system serves less than 5,000 ft² of conditioned floor area.	
14	No	The combined surface area of the ducts is more than 25% of the total surface area of the entire duct system:	
15	No	The scope of the project includes extending an existing duct system, which is constructed, insulated or sealed with asbestos.	
16	No	The scope of the project includes an existing duct system that is documented to have been previously sealed as confirmed through field verification and diagnostic testing in accordance with procedures in the Reference Nonresidential Appendix NA2.	
17	Yes	All Ductwork and plenums with pressure class ratings shall be constructed to Seal Class A	
18	No	All ductwork is an extension of an existing duct system	
19	No	Ductwork serving individual dwelling unit	
20		< 25 ft of new or replacement space conditioning ducts installed	
21	R-4.2	Duct Insulation R-value	
22	No	Ductwork Existing To Remain	
23	No	Duct System Connected To Altered Space Conditioning System	

M. COOLING TOWERS

This section does not apply to this project.

STATE OF CALIFORNIA
Mechanical Systems CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-MCH-E
Project Name: Headstart Child Care Center	**Report Page:**	**(Page 20 of 22)**
	Date Prepared:	2026-03-20T15:58:23-04:00

N. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Selections have been made based on information provided in previous tables of this document. If any selection needs to be changed, please explain why in Table E Additional Remarks. These documents must be provided to the building inspector during construction and can be found online at https://www.energy.ca.gov/programs-and-topics/programs/building-energy-efficiency-standards/2022-building-energy-efficiency-4

Form/Title
NRCI-MCH-E - Must be submitted for all buildings

O. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

Selections have been made based on information provided in previous tables of this document. If any selection needs to be changed, please explain why in Table E Additional Remarks. These documents must be provided to the building inspector during construction and can be found online at https://www.energy.ca.gov/programs-and-topics/programs/building-energy-efficiency-standards/2022-building-energy-efficiency-4

Form/Title	Systems/Spaces To Be Field Verified
NRCA-MCH-02-A - Outdoor Air	HP-1; HP-2; HP-3; HP-4; HP-5; HP-6; HP-7; HP-8
NRCA-MCH-03-A - HVAC and Heat Pumps - Const Volume Single Zone HVAC	ALL
NRCA-MCH-05-A - Air Economizer, DOAS, HRV, & ERV Controls	HP-1, HP-2; HP-3, HP-4, HP-6, HP-8; HP-5

P. DECLARATION OF REQUIRED CERTIFICATES OF VERIFICATION

There are no NRCV forms required for this project.

STATE OF CALIFORNIA
Mechanical Systems CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-MCH-E
Project Name: Headstart Child Care Center	**Report Page:**	**(Page 21 of 22)**
	Date Prepared:	2026-03-20T15:58:23-04:00

Q. MANDATORY MEASURES DOCUMENTATION LOCATION

This table is used to indicate where mandatory measures are documented in the plan set or construction documentation.

01		02
Compliance with Mandatory Measures documented through MCH Mandatory Measures Note Block	No	Plan sheet or construction document location
03		04
Mandatory Measure		**Plan sheet or construction document location**
Heating Equipment Efficiency per §110.1, Title 20, and federal minimums		M001
Cooling Equipment Efficiency per §110.1, Title 20, and federal minimums		M001
Furnace Standby Loss Control per §110.2(d)		N/A
Duct Insulation per §120.4		M401
Heat Pump with Supplemental electric Resistance Heater Controls per §110.2(b)		N/A
The air duct and plenum system is designed per §120.4(a)-(f)		M Sheets
Kitchen range hoods shall be rated for sound in accordance with Section 7.2 of ASHRAE 62.2		N/A

JENNIFER ROBINSON ARCHITECTS
8218 ROYAL GORGE DRIVE
SAN DIEGO, CA 92119
619.571.9114

LICENSED ARCHITECT JENNIFER R. ROBINSON C30540 REN. 6-30-2027 STATE OF CALIFORNIA

ALL IDEAS, ARRANGEMENTS AND PLANS INDICATED OR REPRESENTED BY THIS DRAWING ARE OWNED BY, AND THE PROPERTY OF JENNIFER ROBINSON ARCHITECTS AND WERE CREATED, EVOLVED AND DEVELOPED FOR THE USE ON, AND IN CONNECTION WITH, THE SPECIFIED PROJECT. NONE OF SUCH IDEAS, DESIGNS, ARRANGEMENTS OR PLANS SHALL BE USED BY, OR DISCLOSED TO ANY PERSON, FIRM OR CORPORATION FOR ANY PURPOSE WHATSOEVER WITHOUT THE WRITTEN PERMISSION OF JENNIFER ROBINSON ARCHITECTS.

AKA HEADSTART, INC. DAY CARE
SITE & TENANT IMPROVEMENTS
698 W. MADISON AVENUE, EL CAJON, CA 92020

ISSUE	DATE
☐ PLANCHECK SUBMITTAL	26 MAR 2026
⚠ RECHECK DRAWINGS	22 JUNE 2026

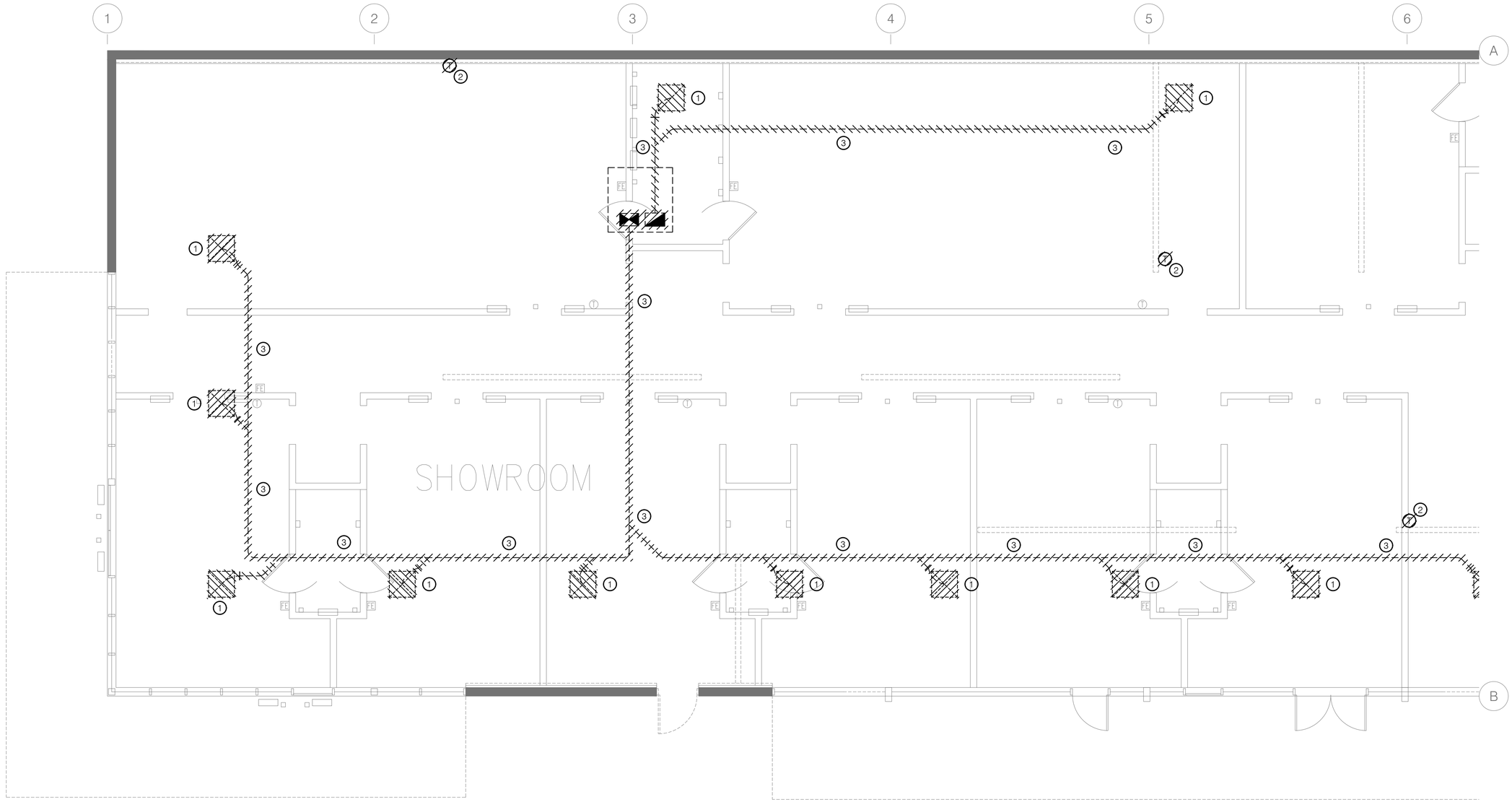
REGISTERED PROFESSIONAL ENGINEER TREVOR S. PROPHET M 42119 MECHANICAL STATE OF CALIFORNIA

MDC MARINO DESIGN CONSULTING INC.
2615 CAMINO DEL RIO S. SUITE 402
SAN DIEGO, CA 92108
PH: 619-550-2615
www.mdcmechanical.com

MECHANICAL T-24

M004

SHEET OF 65



PARTIAL MECHANICAL FLOOR PLAN (WEST) - DEMOLITION

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

SHEET NOTES

1. REMOVE EXISTING CEILING DIFFUSER AND/OR RETURN REGISTER ALONG WITH ALL ASSOCIATED DUCTWORK, ACCESSORIES AND SUPPORTS.
2. REMOVE EXISTING THERMOSTAT.
3. REMOVE EXISTING DUCTWORK TO POINT SHOWN. (TYP.)

GENERAL NOTES

1. CONTRACTOR SHALL VERIFY ALL EXISTING EQUIPMENT LOCATIONS, POC'S AND ALL EXISTING CONDITIONS PRIOR TO CONSTRUCTION.

JENNIFER ROBINSON ARCHITECTS

8218 ROYAL GORGE DRIVE
SAN DIEGO, CA 92119
619.571.9114

LICENSED ARCHITECT — JENNIFER R. ROBINSON — C30540 — REN. 6-30-2027 — STATE OF CALIFORNIA

ALL IDEAS, ARRANGEMENTS AND PLANS INDICATED OR REPRESENTED BY THIS DRAWING ARE OWNED BY, AND THE PROPERTY OF JENNIFER ROBINSON ARCHITECTS AND WERE CREATED, EVOLVED AND DEVELOPED FOR THE USE ON, AND IN CONNECTION WITH, THE SPECIFIED PROJECT. NONE OF SUCH IDEAS, DESIGNS, ARRANGEMENTS OR PLANS SHALL BE USED BY, OR DISCLOSED TO ANY PERSON, FIRM OR CORPORATION FOR ANY PURPOSE WHATSOEVER WITHOUT THE WRITTEN PERMISSION OF JENNIFER ROBINSON ARCHITECTS.

AKA HEADSTART, INC. DAY CARE
SITE & TENANT IMPROVEMENTS
698 W. MADISON AVENUE, EL CAJON, CA 92020

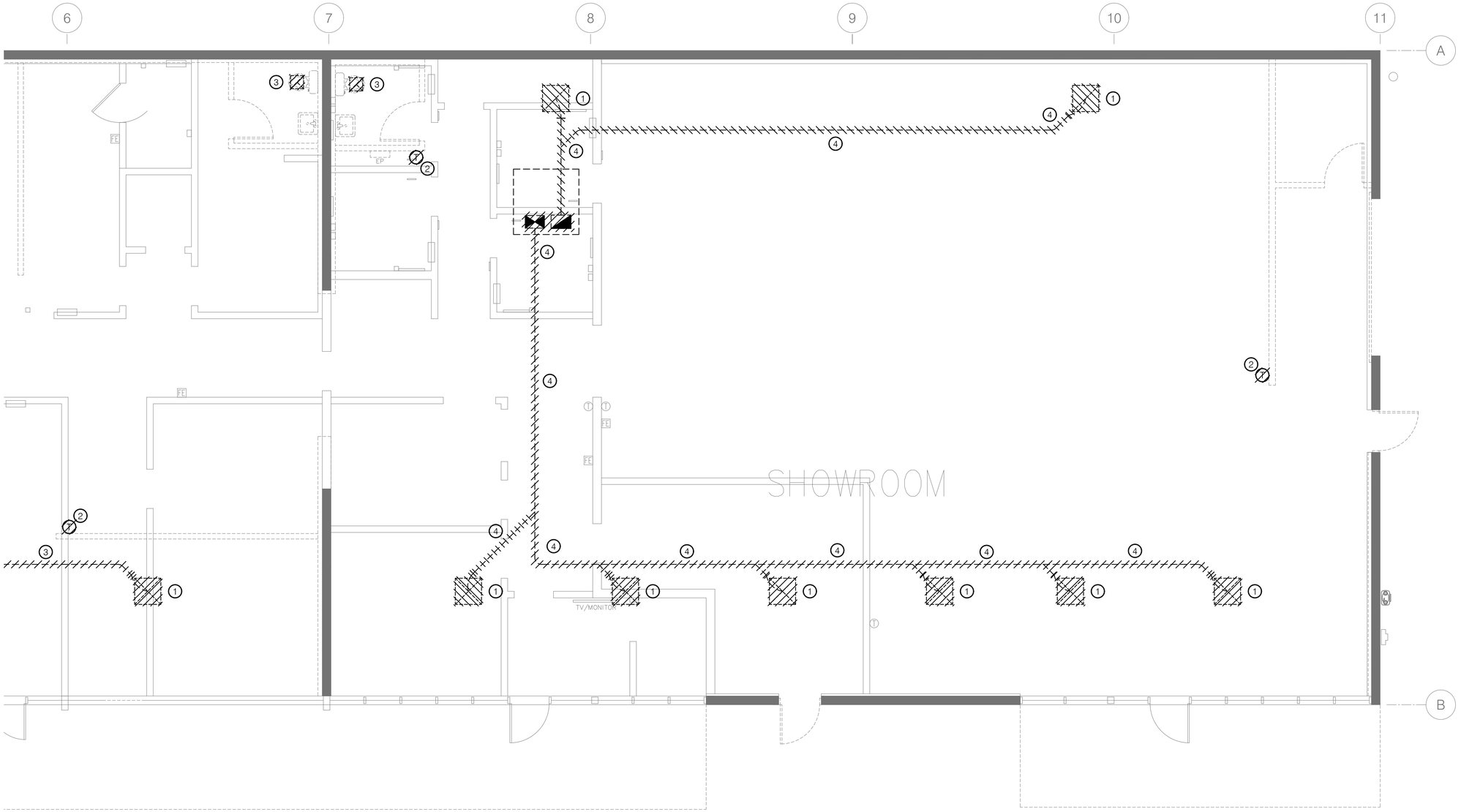
ISSUE	DATE
☐ PLANCHECK SUBMITTAL	26 MAR 2026
⚠ RECHECK DRAWINGS	22 JUNE 2026

REGISTERED PROFESSIONAL ENGINEER — TREVOR S. PROPST — M 42119 — MECHANICAL — STATE OF CALIFORNIA

MDC MARINO DESIGN CONSULTING INC.
2615 CAMINO DEL RIO S. SUITE 402
SAN DIEGO, CA 92108
PH: 619-550-2615
www.mdcmechanical.com

PARTIAL MECHANICAL FLOOR PLAN (WEST) - DEMOLITION

M101



PARTIAL MECHANICAL FLOOR PLAN (EAST) - DEMOLITION

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

SHEET NOTES

1. REMOVE EXISTING CEILING DIFFUSER AND/OR RETURN REGISTER ALONG WITH ALL ASSOCIATED DUCTWORK, ACCESSORIES AND SUPPORTS.
2. REMOVE EXISTING THERMOSTAT.
3. REMOVE EXISTING CEILING EXHAUST ALONG WITH ALL ASSOCIATED DUCTWORK, ACCESSORIES AND SUPPORTS.
4. REMOVE EXISTING DUCTWORK TO POINT SHOWN. (TYP.)

GENERAL NOTES

1. CONTRACTOR SHALL VERIFY ALL EXISTING EQUIPMENT LOCATIONS, POC'S AND ALL EXISTING CONDITIONS PRIOR TO CONSTRUCTION.

JENNIFER ROBINSON ARCHITECTS

8218 ROYAL GORGE DRIVE
SAN DIEGO, CA 92119
619.571.9114

LICENSED ARCHITECT — JENNIFER R. ROBINSON — C30540 — REN. 6-30-2027 — STATE OF CALIFORNIA

ALL IDEAS, ARRANGEMENTS AND PLANS INDICATED OR REPRESENTED BY THIS DRAWING ARE OWNED BY, AND THE PROPERTY OF JENNIFER ROBINSON ARCHITECTS AND WERE CREATED, EVOLVED AND DEVELOPED FOR THE USE ON, AND IN CONNECTION WITH, THE SPECIFIED PROJECT. NONE OF SUCH IDEAS, DESIGNS, ARRANGEMENTS OR PLANS SHALL BE USED BY, OR DISCLOSED TO ANY PERSON, FIRM OR CORPORATION FOR ANY PURPOSE WHATSOEVER WITHOUT THE WRITTEN PERMISSION OF JENNIFER ROBINSON ARCHITECTS.

AKA HEADSTART, INC. DAY CARE SITE & TENANT IMPROVEMENTS

698 W. MADISON AVENUE, EL CAJON, CA 92020

ISSUE	DATE
☐ PLANCHECK SUBMITTAL	26 MAR 2026
⚠ RECHECK DRAWINGS	22 JUNE 2026

REGISTERED PROFESSIONAL ENGINEER — TREVOR S. PROVENCE — M 42119 — MECHANICAL — STATE OF CALIFORNIA

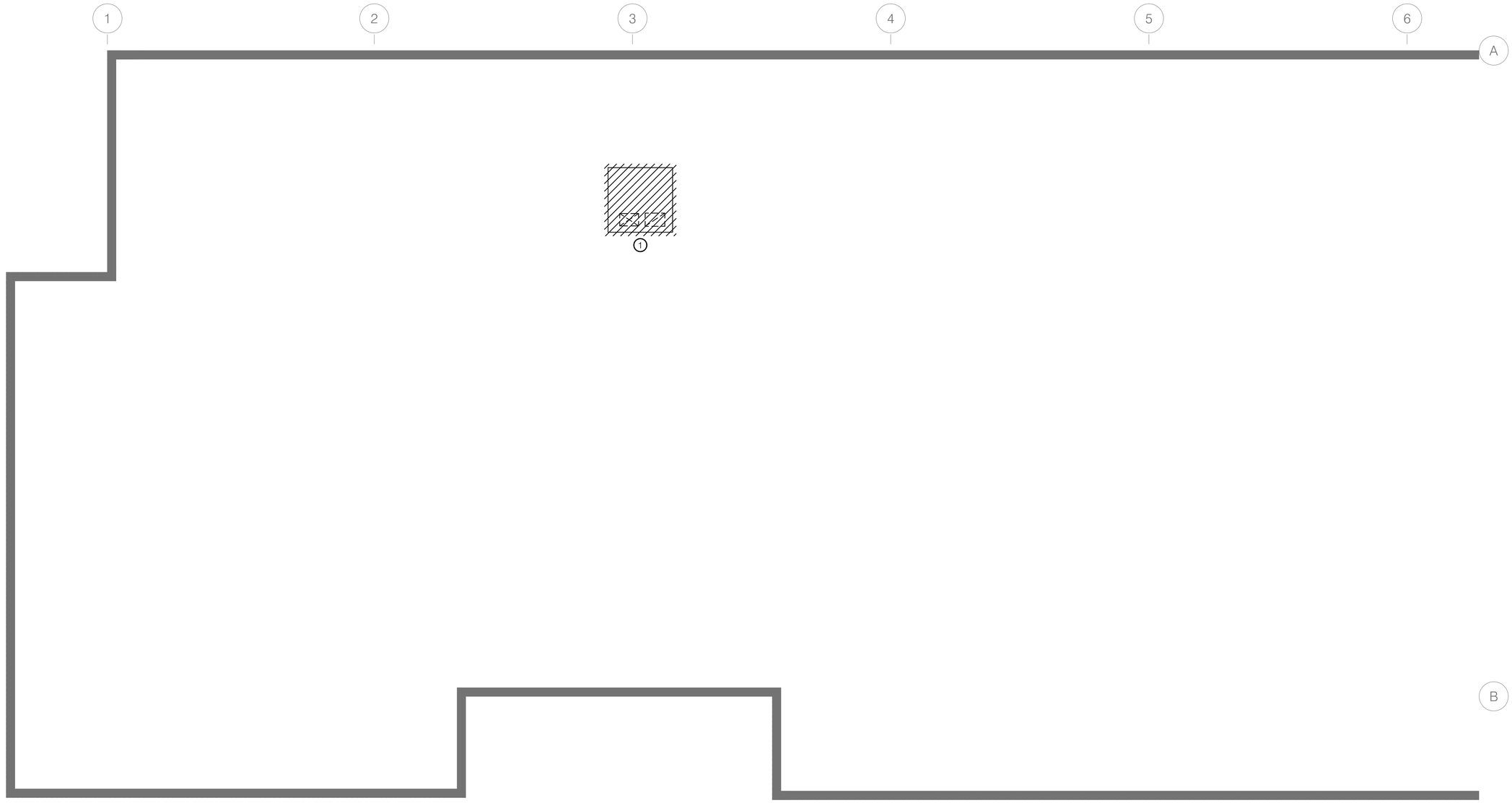
MDC MARINO DESIGN CONSULTING INC.

2615 CAMINO DEL RIO S. SUITE 402
SAN DIEGO, CA 92108
PH: 619-550-2615
www.mdcmechanical.com

PARTIAL MECHANICAL FLOOR PLAN (EAST) - DEMOLITION

M102

SHEET OF 65



PARTIAL MECHANICAL ROOF PLAN (WEST) - DEMOLITION

SCALE: 1/4"=1'-0" (1 / M103)

SHEET NOTES

1. REMOVE EXISTING ROOFTOP HEAT PUMP ALONG WITH ASSOCIATED DUCTWORK, CONDENSATE PIPING AND CONTROLS.

GENERAL NOTES

1. CONTRACTOR SHALL VERIFY ALL EXISTING EQUIPMENT LOCATIONS, POC'S AND ALL EXISTING CONDITIONS PRIOR TO CONSTRUCTION.

JENNIFER ROBINSON ARCHITECTS

8218 ROYAL GORGE DRIVE
SAN DIEGO, CA 92119
619.571.9114

LICENSED ARCHITECT — JENNIFER R. ROBINSON — C30540 — REN. 6-30-2027 — STATE OF CALIFORNIA

ALL IDEAS, ARRANGEMENTS AND PLANS INDICATED OR REPRESENTED BY THIS DRAWING ARE OWNED BY, AND THE PROPERTY OF JENNIFER ROBINSON ARCHITECTS AND WERE CREATED, EVOLVED AND DEVELOPED FOR THE USE ON, AND IN CONNECTION WITH, THE SPECIFIED PROJECT. NONE OF SUCH IDEAS, DESIGNS, ARRANGEMENTS OR PLANS SHALL BE USED BY, OR DISCLOSED TO ANY PERSON, FIRM OR CORPORATION FOR ANY PURPOSE WHATSOEVER WITHOUT THE WRITTEN PERMISSION OF JENNIFER ROBINSON ARCHITECTS.

AKA HEADSTART, INC. DAY CARE
SITE & TENANT IMPROVEMENTS
698 W. MADISON AVENUE, EL CAJON, CA 92020

ISSUE	DATE
☐ PLANCHECK SUBMITTAL	26 MAR 2026
⚠ RECHECK DRAWINGS	22 JUNE 2026

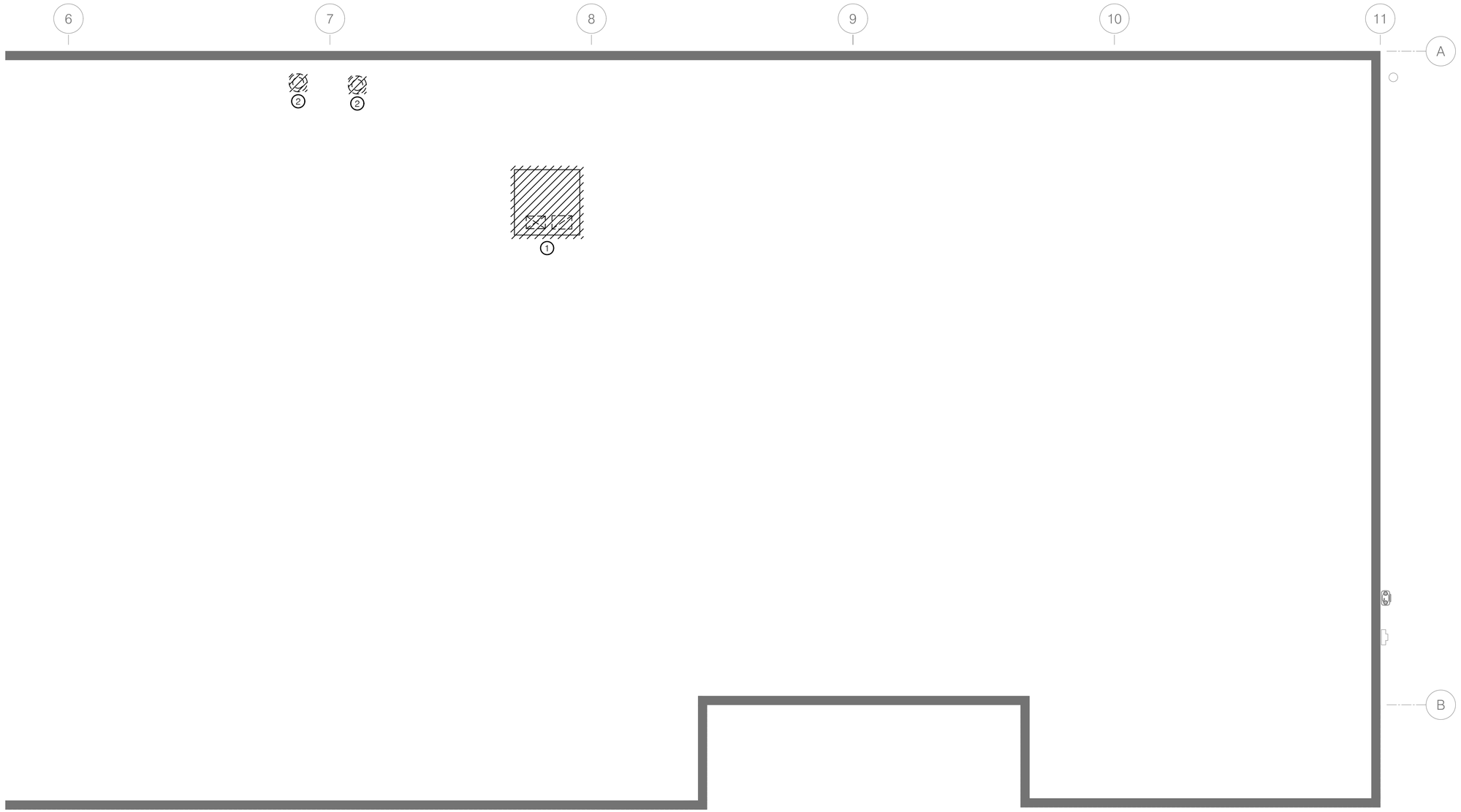
REGISTERED PROFESSIONAL ENGINEER — TREVOR S. PROPHET — M 42119 — MECHANICAL — STATE OF CALIFORNIA

MDC MARINO DESIGN CONSULTING INC.
2615 CAMINO DEL RIO S. SUITE 402
SAN DIEGO, CA 92108
PH: 619-550-2615
www.mdcmechanical.com

PARTIAL MECHANICAL ROOF PLAN (WEST) - DEMOLITION

M103

SHEET OF 65



PARTIAL MECHANICAL ROOF PLAN (EAST) - DEMOLITION

SCALE: 1/4"=1'-0" (1 / M104)

SHEET NOTES

1. REMOVE EXISTING ROOFTOP HEAT PUMP ALONG WITH ASSOCIATED DUCTWORK, CONDENSATE DRAIN AND CONTROLS.
2. REMOVE EXISTING EXHAUST VENT CAP ALONG WITH DUCTWORK DOWN THROUGH ROOF.

GENERAL NOTES

1. CONTRACTOR SHALL VERIFY ALL EXISTING EQUIPMENT LOCATIONS, POC'S AND ALL EXISTING CONDITIONS PRIOR TO CONSTRUCTION.

JENNIFER ROBINSON ARCHITECTS

8218 ROYAL GORGE DRIVE
SAN DIEGO, CA 92119
619.571.9114

LICENSED ARCHITECT — JENNIFER R. ROBINSON — Jennifer Robinson — C30540 — REN. 6-30-2027 — STATE OF CALIFORNIA

ALL IDEAS, ARRANGEMENTS AND PLANS INDICATED OR REPRESENTED BY THIS DRAWING ARE OWNED BY, AND THE PROPERTY OF JENNIFER ROBINSON ARCHITECTS AND WERE CREATED, EVOLVED AND DEVELOPED FOR THE USE ON, AND IN CONNECTION WITH, THE SPECIFIED PROJECT. NONE OF SUCH IDEAS, DESIGNS, ARRANGEMENTS OR PLANS SHALL BE USED BY, OR DISCLOSED TO ANY PERSON, FIRM OR CORPORATION FOR ANY PURPOSE WHATSOEVER WITHOUT THE WRITTEN PERMISSION OF JENNIFER ROBINSON ARCHITECTS.

AKA HEADSTART, INC. DAY CARE
SITE & TENANT IMPROVEMENTS
698 W. MADISON AVENUE, EL CAJON, CA 92020

ISSUE	DATE
☐ PLANCHECK SUBMITTAL	26 MAR 2026
⚠ RECHECK DRAWINGS	22 JUNE 2026

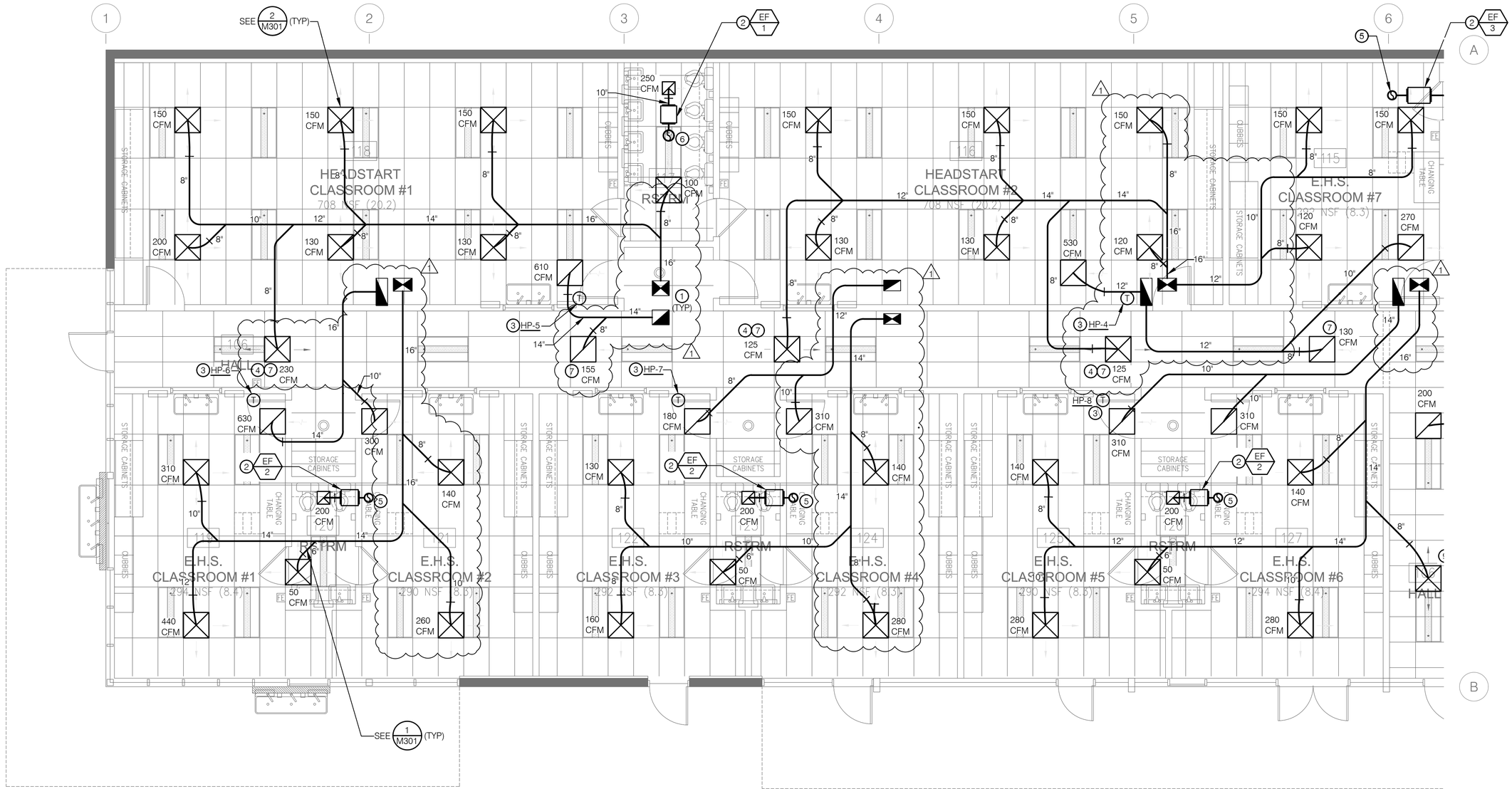
REGISTERED PROFESSIONAL ENGINEER — TREVOR S. PROPHET — M 42119 — MECHANICAL — STATE OF CALIFORNIA

MDC MARINO DESIGN CONSULTING INC.
2615 CAMINO DEL RIO S. SUITE 402
SAN DIEGO, CA 92108
PH: 619-550-2615
www.mdcmechanical.com

PARTIAL MECHANICAL ROOF PLAN (EAST) - DEMOLITION

M104

SHEET OF 65



PARTIAL MECHANICAL FLOOR PLAN (WEST) - NEW WORK

SCALE: 1/4"=1'-0" (1 / M201)

SHEET NOTES

1. NEW INTERNALLY LINED SUPPLY AND RETURN AIR PLENUMS UP THRU ROOF TO HEAT PUMP (TYP).
2. NEW INLINE EXHAUST FAN. SEE 3 / M301
3. NEW VENSTAR WIFI PROGRAMMABLE THERMOSTAT.
4. 2-WAY THROW DIFFUSER.
5. 8" EXHAUST DUCT UP THRU ROOF TO GRAVITY VENTILATOR.
6. 10" EXHAUST DUCT UP THRU ROOF TO GRAVITY VENTILATOR.
7. PROVIDE HORIZONTAL FIRE/SMOKE DAMPER AT CEILING PENETRATION, GREENHECK MODEL CFSD-211. SEE 6 / M301 (1)

GENERAL NOTES

1. CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS IN THE FIELD PRIOR TO THE START OF CONSTRUCTION.

JENNIFER ROBINSON ARCHITECTS

8218 ROYAL GORGE DRIVE
SAN DIEGO, CA 92119
619.571.9114

LICENSED ARCHITECT — JENNIFER R. ROBINSON — C30540 — REN. 6-30-2027 — STATE OF CALIFORNIA

ALL IDEAS, ARRANGEMENTS AND PLANS INDICATED OR REPRESENTED BY THIS DRAWING ARE OWNED BY, AND THE PROPERTY OF JENNIFER ROBINSON ARCHITECTS AND WERE CREATED, EVOLVED AND DEVELOPED FOR THE USE ON, AND IN CONNECTION WITH, THE SPECIFIED PROJECT. NONE OF SUCH IDEAS, DESIGNS, ARRANGEMENTS OR PLANS SHALL BE USED BY, OR DISCLOSED TO ANY PERSON, FIRM OR CORPORATION FOR ANY PURPOSE WHATSOEVER WITHOUT THE WRITTEN PERMISSION OF JENNIFER ROBINSON ARCHITECTS.

AKA HEADSTART, INC. DAY CARE
SITE & TENANT IMPROVEMENTS
698 W. MADISON AVENUE, EL CAJON, CA 92020

ISSUE	DATE
☐ PLANCHECK SUBMITTAL	26 MAR 2026
△1 RECHECK DRAWINGS	22 JUNE 2026

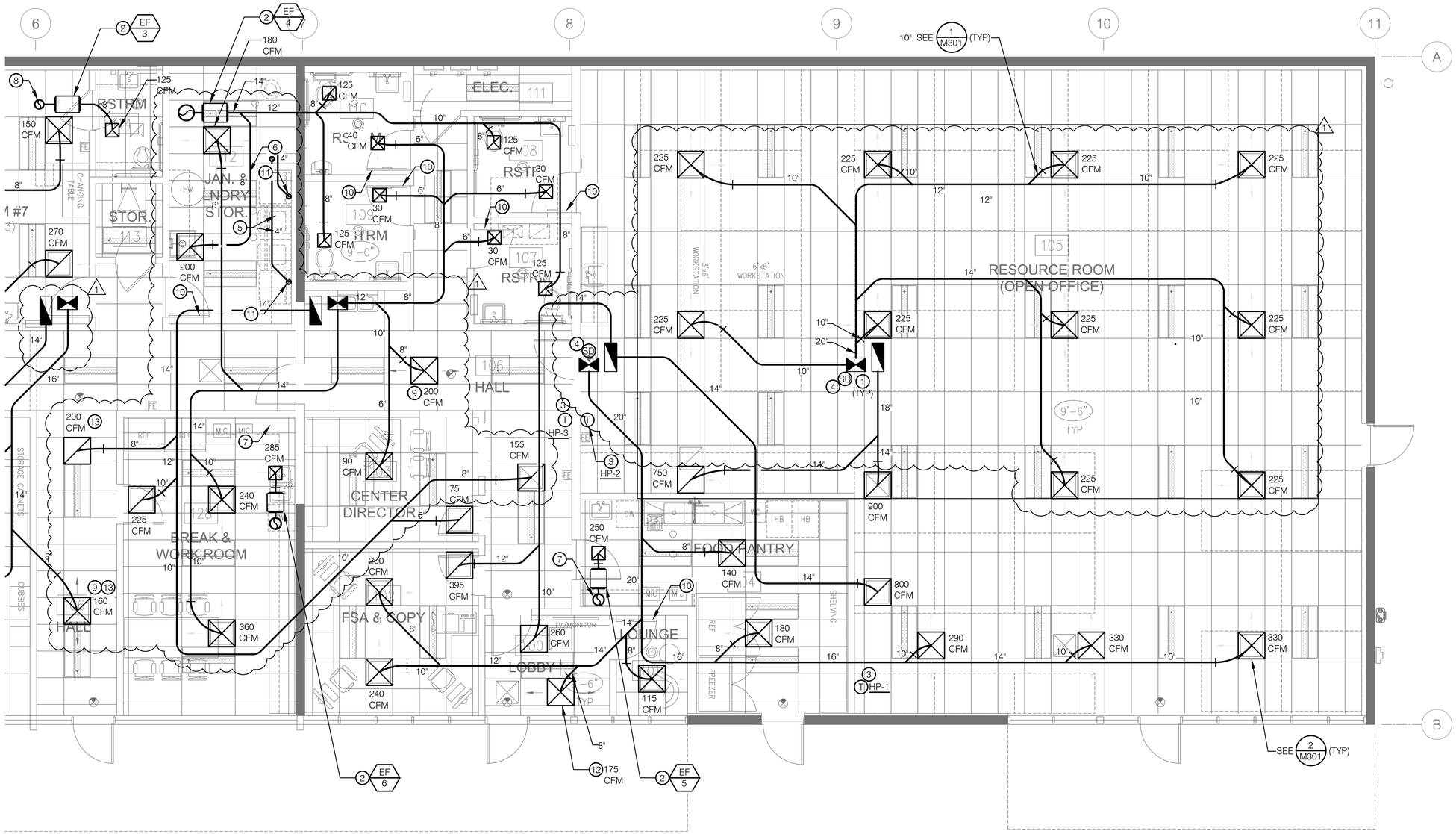
REGISTERED PROFESSIONAL ENGINEER — TREVOR S. PROVENCE — M 42119 — MECHANICAL — STATE OF CALIFORNIA

MDC MARINO DESIGN CONSULTING INC.
2615 CAMINO DEL RIO S. SUITE 402
SAN DIEGO, CA 92108
PH: 619-550-2615
www.mdcmechanical.com

PARTIAL MECHANICAL FLOOR PLAN (WEST) - NEW WORK

M201

SHEET OF 65



PARTIAL MECHANICAL FLOOR PLAN (EAST) - NEW WORK

SCALE: 1/4"=1'-0" (1 M202)

SHEET NOTES

1. NEW INTERNALLY LINED SUPPLY AND RETURN AIR PLENUMS UP THRU ROOF TO HEAT PUMP (TYP).
2. NEW INLINE EXHAUST FAN. SEE (3 M301)
3. NEW VENSTAR WIFI PROGRAMMABLE THERMOSTAT.
4. DUCT SMOKE DETECTOR.
5. 4" DRYER EXHAUST DUCT UP THRU ROOF.
6. 14" EXHAUST DUCT UP THRU ROOF TO GRAVITY VENTILATOR.
7. 10" EXHAUST DUCT UP THRU ROOF TO GRAVITY VENTILATOR.
8. 8" EXHAUST DUCT UP THRU ROOF TO GRAVITY VENTILATOR.
9. 2-WAY THROW DIFFUSER.
10. UNDERCUT DOOR BY 1".
11. 4" DRYER EXHAUST DUCT DOWN TO DRYER CONNECTION.
12. 3-WAY THROW DIFFUSER.
13. PROVIDE HORIZONTAL FIRE/SMOKE DAMPER AT CEILING PENETRATION, GREENHECK MODEL CFSD-211. SEE (6 M301)

GENERAL NOTES

1. CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS IN THE FIELD PRIOR TO THE START OF CONSTRUCTION.
2. ALL DIFFUSERS OR REGISTERS WITHIN HARD LID CEILINGS SHALL BE PROVIDED WITH OBD'S.

JENNIFER ROBINSON ARCHITECTS

8218 ROYAL GORGE DRIVE
SAN DIEGO, CA 92119
619.571.9114

Jennifer Robinson C30540 6-30-2027 STATE OF CALIFORNIA

ALL IDEAS, ARRANGEMENTS AND PLANS INDICATED OR REPRESENTED BY THIS DRAWING ARE OWNED BY, AND THE PROPERTY OF JENNIFER ROBINSON ARCHITECTS AND WERE CREATED, EVOLVED AND DEVELOPED FOR THE USE ON, AND IN CONNECTION WITH, THE SPECIFIED PROJECT. NONE OF SUCH IDEAS, DESIGNS, ARRANGEMENTS OR PLANS SHALL BE USED BY, OR DISCLOSED TO ANY PERSON, FIRM OR CORPORATION FOR ANY PURPOSE WHATSOEVER WITHOUT THE WRITTEN PERMISSION OF JENNIFER ROBINSON ARCHITECTS.

AKA HEADSTART, INC. DAY CARE
SITE & TENANT IMPROVEMENTS
698 W. MADISON AVENUE, EL CAJON, CA 92020

ISSUE	DATE
☐ PLANCHECK SUBMITTAL	26 MAR 2026
⚠ RECHECK DRAWINGS	22 JUNE 2026

REGISTERED PROFESSIONAL ENGINEER TREVOR S. PROFFER M 42119 MECHANICAL STATE OF CALIFORNIA

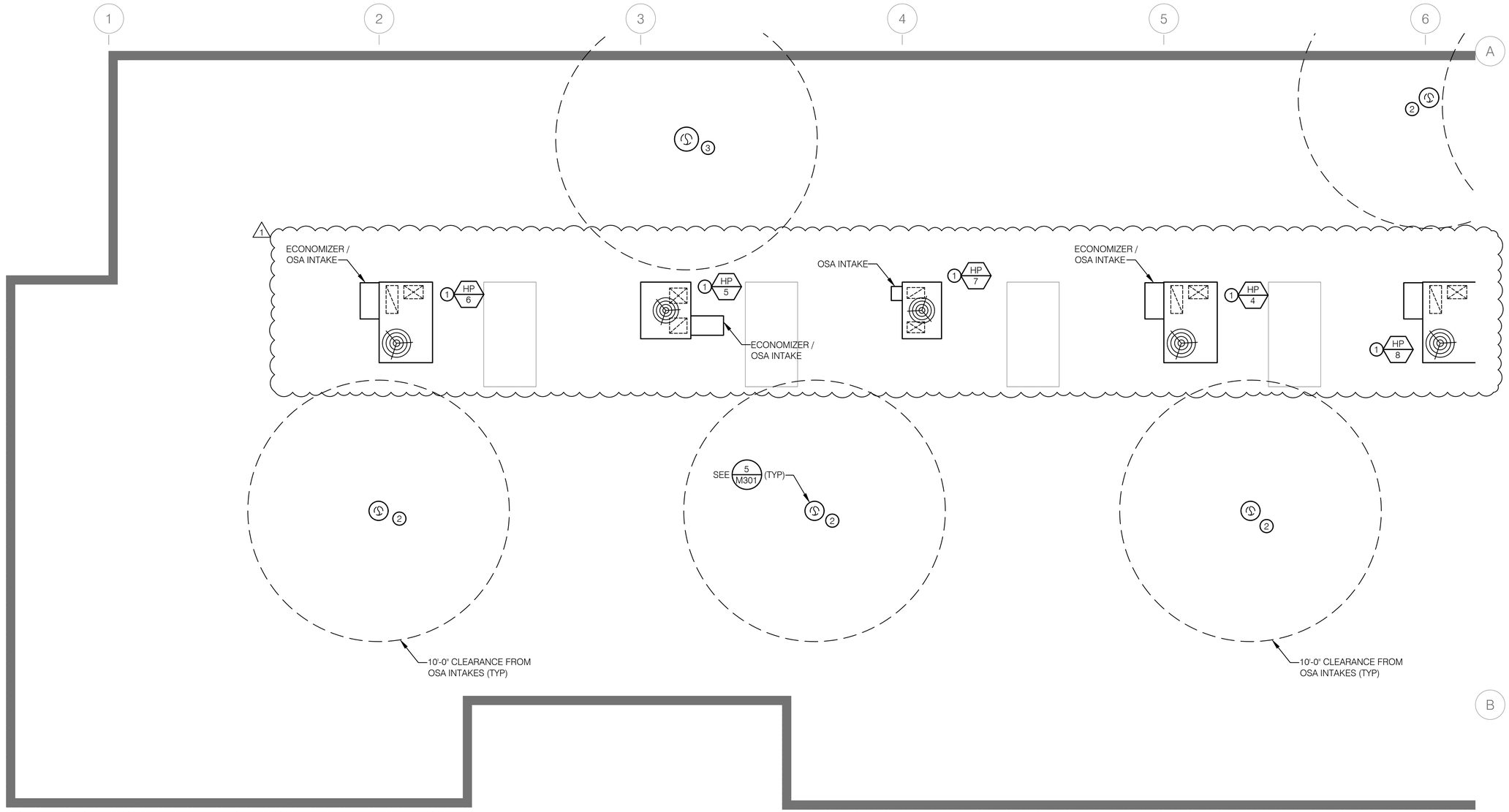
GRAPHIC SCALE 0' 2' 4' 8'
1 / 8 " = 1 ' – 0 "

MDC MARINO DESIGN CONSULTING INC.
2615 CAMINO DEL RIO S. SUITE 402
SAN DIEGO, CA 92108
PH: 619-550-2615
www.mdcmechanical.com

PARTIAL MECHANICAL FLOOR PLAN (EAST) - NEW WORK

M202

SHEET OF 65



PARTIAL MECHANICAL ROOF PLAN (WEST) - NEW WORK

SCALE: 1/4"=1'-0" (1 / M203)

SHEET NOTES

1. NEW HEAT PUMP UNIT ON ROOF. SEE 4 / M301
2. NEW 8" GRAVITY VENTILATOR, GREENHECK MODEL GRS.
3. NEW 10" GRAVITY VENTILATION, GREENHECK MODEL GRS.

GENERAL NOTES

1. CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS IN THE FIELD PRIOR TO THE START OF CONSTRUCTION.
2. EXHAUST OUTLETS SHALL TERMINATE A MINIMUM OF 10FT FROM FORCED AIR, 3FT FROM THE PROPERTY LINE AND 3FT FROM OPENINGS INTO THE BUILDING PER SECTION 502.2.1 CMC.

JENNIFER ROBINSON ARCHITECTS
8218 ROYAL GORGE DRIVE
SAN DIEGO, CA 92119
619.571.9114

LICENSED ARCHITECT — JENNIFER R. ROBINSON — C30540 — REN. 6-30-2027 — STATE OF CALIFORNIA

ALL IDEAS, ARRANGEMENTS AND PLANS INDICATED OR REPRESENTED BY THIS DRAWING ARE OWNED BY, AND THE PROPERTY OF JENNIFER ROBINSON ARCHITECTS AND WERE CREATED, EVOLVED AND DEVELOPED FOR THE USE ON, AND IN CONNECTION WITH, THE SPECIFIED PROJECT. NONE OF SUCH IDEAS, DESIGNS, ARRANGEMENTS OR PLANS SHALL BE USED BY, OR DISCLOSED TO ANY PERSON, FIRM OR CORPORATION FOR ANY PURPOSE WHATSOEVER WITHOUT THE WRITTEN PERMISSION OF JENNIFER ROBINSON ARCHITECTS.

AKA HEADSTART, INC. DAY CARE
SITE & TENANT IMPROVEMENTS
698 W. MADISON AVENUE, EL CAJON, CA 92020

ISSUE	DATE
☐ PLANCHECK SUBMITTAL	26 MAR 2026
⚠ RECHECK DRAWINGS	22 JUNE 2026

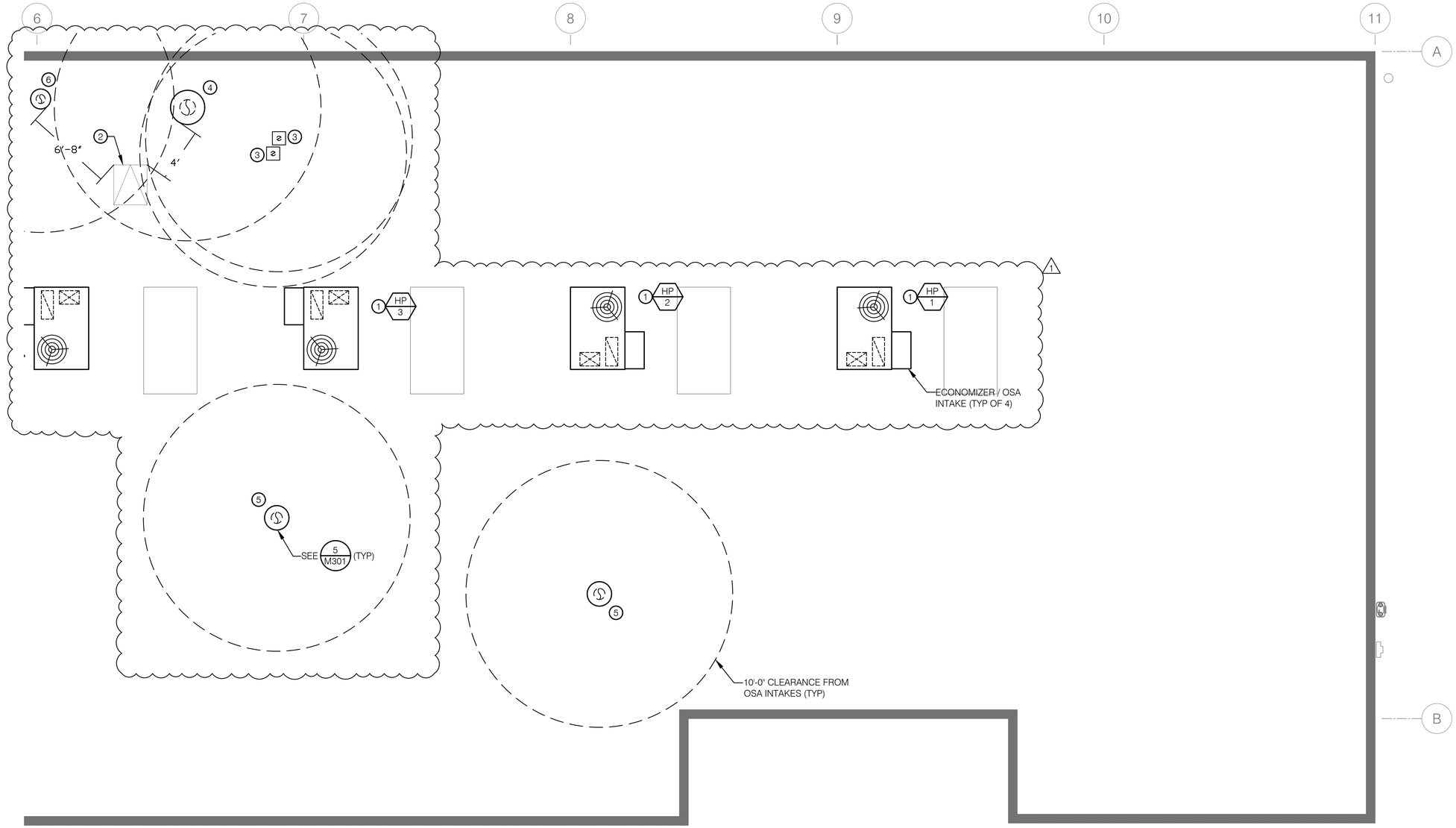
REGISTERED PROFESSIONAL ENGINEER — TREVOR S. PROPHET — M 42119 — MECHANICAL — STATE OF CALIFORNIA

MDC MARINO DESIGN CONSULTING INC.
2615 CAMINO DEL RIO S. SUITE 402
SAN DIEGO, CA 92108
PH: 619-550-2615
www.mdcmechanical.com

PARTIAL MECHANICAL ROOF PLAN (WEST) - NEW WORK

M203

SHEET OF 65



PARTIAL MECHANICAL ROOF PLAN (EAST) - NEW WORK

SCALE: 1/4"=1'-0" (1 / M204)

SHEET NOTES

1. NEW HEAT PUMP UNIT ON ROOF. SEE 4 / M301
2. LOCATION OF EXISTING ROOF ACCESS HATCH AND LADDER.
3. NEW GOOSE-NECK TERMINATION FOR DRYER VENT ON ROOF - DRYERJACK MODEL #DJK486U.
4. NEW 14" GRAVITY VENTILATOR - GREENHECK MODEL #GRS.
5. NEW 10" GRAVITY VENTILATOR - GREENHECK MODEL #GRS.
6. NEW 8" GRAVITY VENTILATOR - GREENHECK MODEL #GRS.

GENERAL NOTES

1. CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS IN THE FIELD PRIOR TO THE START OF CONSTRUCTION.
2. EXHAUST OUTLETS SHALL TERMINATE A MINIMUM OF 10FT FROM FORCED AIR, 3FT FROM THE PROPERTY LINE AND 3FT FROM OPENINGS INTO THE BUILDING PER SECTION 502.2.1 CMC.
3. DRYER VENTS SHALL BE EQUIPPED WITH BACKDRAFT DAMPERS PER SECTION 504.4 CMC.
4. SCREENS / LOUVERS SHALL NOT BE INSTALLED AT DRYER VENT TERMINATIONS PER SECTION 504.4 CMC.

JENNIFER ROBINSON ARCHITECTS

8218 ROYAL GORGE DRIVE
SAN DIEGO, CA 92119
619.571.9114

LICENSED ARCHITECT — JENNIFER R. ROBINSON — C30540 — REN. 6-30-2027 — STATE OF CALIFORNIA

ALL IDEAS, ARRANGEMENTS AND PLANS INDICATED OR REPRESENTED BY THIS DRAWING ARE OWNED BY, AND THE PROPERTY OF JENNIFER ROBINSON ARCHITECTS AND WERE CREATED, EVOLVED AND DEVELOPED FOR THE USE ON, AND IN CONNECTION WITH, THE SPECIFIED PROJECT. NONE OF SUCH IDEAS, DESIGNS, ARRANGEMENTS OR PLANS SHALL BE USED BY, OR DISCLOSED TO ANY PERSON, FIRM OR CORPORATION FOR ANY PURPOSE WHATSOEVER WITHOUT THE WRITTEN PERMISSION OF JENNIFER ROBINSON ARCHITECTS.

AKA HEADSTART, INC. DAY CARE
SITE & TENANT IMPROVEMENTS
698 W. MADISON AVENUE, EL CAJON, CA 92020

ISSUE	DATE
☐ PLANCHECK SUBMITTAL	26 MAR 2026
⚠ RECHECK DRAWINGS	22 JUNE 2026

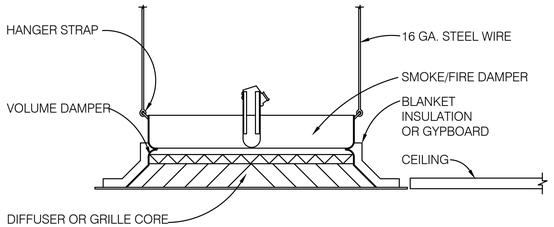
REGISTERED PROFESSIONAL ENGINEER — TREVOR S. PROPHET — M 42119 — MECHANICAL — STATE OF CALIFORNIA

MDC MARINO DESIGN CONSULTING INC.
2615 CAMINO DEL RIO S. SUITE 402
SAN DIEGO, CA 92108
PH: 619-550-2615
www.mdcmechanical.com

PARTIAL MECHANICAL ROOF PLAN (EAST) - NEW WORK

M204

SHEET OF 65

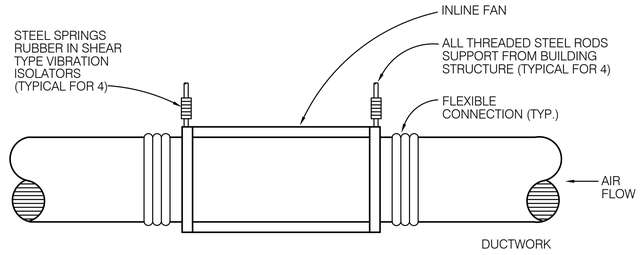


HORIZONTAL SMOKE/FIRE DAMPER DETAIL

6 / M301

NO SCALE

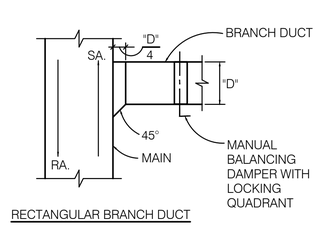
1



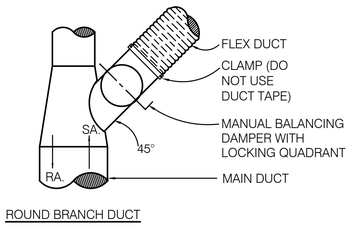
INLINE EXHAUST FAN DETAIL

3 / M301

NO SCALE



RECTANGULAR BRANCH DUCT



ROUND BRANCH DUCT

NOTE:

ALL BRANCH TAKE-OFFS SHALL HAVE A LOW LOSS FITTING WHETHER SHOWN ON THE FLOOR PLAN OR NOT.

TYPICAL BRANCH DUCT DETAIL

1 / M301

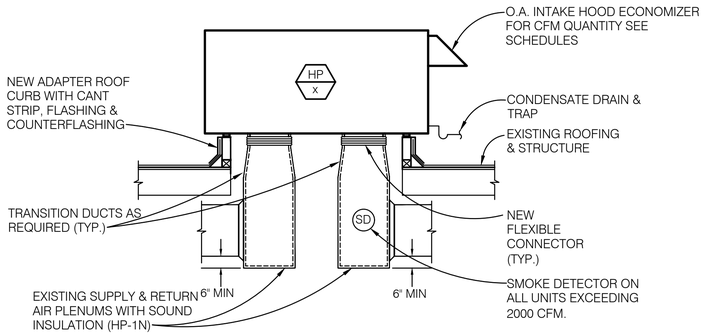
NO SCALE

JENNIFER ROBINSON ARCHITECTS

8218 ROYAL GORGE DRIVE
SAN DIEGO, CA 92119
619.571.9114

LICENSED ARCHITECT — JENNIFER R. ROBINSON — C30540 — REN. 6-30-2027 — STATE OF CALIFORNIA

ALL IDEAS, ARRANGEMENTS AND PLANS INDICATED OR REPRESENTED BY THIS DRAWING ARE OWNED BY, AND THE PROPERTY OF JENNIFER ROBINSON ARCHITECTS AND WERE CREATED, EVOLVED AND DEVELOPED FOR THE USE ON, AND IN CONNECTION WITH, THE SPECIFIED PROJECT. NONE OF SUCH IDEAS, DESIGNS, ARRANGEMENTS OR PLANS SHALL BE USED BY, OR DISCLOSED TO ANY PERSON, FIRM OR CORPORATION FOR ANY PURPOSE WHATSOEVER WITHOUT THE WRITTEN PERMISSION OF JENNIFER ROBINSON ARCHITECTS.

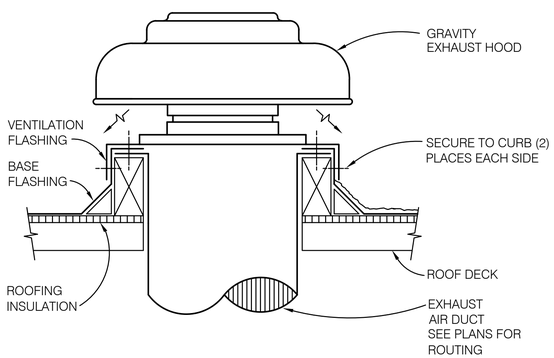


NOTES:
1. COORDINATE EXACT LOCATION AND FRAMING OF ROOF OPENING WITH GENERAL CONTRACTOR.
2. GENERAL CONTRACTOR SHALL PROVIDE LEVEL CURB FOR INSTALLATION OF FACTORY FURNISHED ROOF CURB.

ROOFTOP PACKAGED HEAT PUMP DETAIL

4 / M301

NO SCALE



GRAVITY EXHAUST VENTILATOR DETAIL

5 / M301

NO SCALE



NOTES:
1. ALL FLEX. DUCT CONNECTIONS SHALL BE INTERNALLY LINED.
2. RETURN & EXHAUST AIR REGISTERS SIMILAR.

CEILING DIFFUSER OR RETURN REGISTER DETAIL

2 / M301

NO SCALE

AKA HEADSTART, INC. DAY CARE
SITE & TENANT IMPROVEMENTS
698 W. MADISON AVENUE, EL CAJON, CA 92020

ISSUE	DATE
☐ PLANCHECK SUBMITTAL	26 MAR 2026
⚠1 RECHECK DRAWINGS	22 JUNE 2026

REGISTERED PROFESSIONAL ENGINEER — TREVOR S. PROPHET — 42119 — MECHANICAL — STATE OF CALIFORNIA

MDC MARINO DESIGN CONSULTING INC.

2615 CAMINO DEL RIO S. SUITE 402
SAN DIEGO, CA 92108
PH: 619-550-2615
www.mdcmechanical.com

MECHANICAL DETAILS

M301

SHEET OF 65

BASIC MECHANICAL MATERIALS AND METHODS

PART 1 - GENERAL

1.01 RELATED DOCUMENTS

A. The Drawings and the general provisions of the Contract, including the General and Supplementary Conditions and other Division 1 Specification Sections, apply to the work of this Section.

1.02 SUMMARY

A. Work Included: Basic mechanical requirements governing materials and workmanship incorporated into plumbing, heating, ventilating, air conditioning and related trades as specified herein.

1.03 REFERENCES

A. Materials and workmanship shall comply with the following references, which are incorporated into the text by common abbreviation only. Supplements which have been adopted by the governing agencies shall take precedence.

2025 CMC- California Mechanical Code (Current Edition)
2025 CPC - California Plumbing Code (Current Edition)
2025 CBC - California Building Code (Current Edition)
2025 CEC - California Electric Code (Current Edition)
2025 NFPA - National Fire Protection Association (Current Edition)

B. HVAC System components shall comply with the nationally recognized standards for the type of equipment used including, but not limited to, Underwriter's Laboratories (UL), Sheet Metal and Air Conditioning Contractor's National Association (SMACNA) and the American Society of Heating, Refrigeration, and Air Conditioning Engineers (ASHRAE) Handbook.

1.04 SUBMITTALS

A. Product Data: Submit manufacturer's data for each item to be incorporated into the Work. Data shall be bound into a vinyl binder of 1" capacity and shall include an index at the front listing of all contents. Each submittal item shall be referenced to equipment mark number or material specification section.

B. Shop Drawings: Submit shop drawings showing related dimensions, accurately scaled to established references and points of verification. Show sizes, materials, connections, elevations and related information.

C. Record Drawings: Contractor shall maintain accurate "as-built" marked-up drawings through construction. Prior to final acceptance, submit (1) complete reproducible "as-built" set dated and signed.

1.05 SUBSTITUTIONS

A. All base bids shall be per plan and specifications. All equipment shall be by the scheduled manufacturer.

B. Any substitutions shall be submitted as an alternate bid. The manufacturer shall provide a separate schedule which shall include the section, paragraph, and subparagraph of these specifications and direct statement to indicate compliance or non-compliance with the requirements. For all areas of non-compliance the manufacturer shall describe what specific and alternative approach has been taken and document the impact this will have on the building systems to include sizing of the air delivery systems, the required cooling and heating capacities, energy costs, structure impacts, locations of equipment, etc.

C. The manufacturer shall furnish a letter of compliance to the engineer, signed by a corporate officer of the firm, certifying the compliance and non-compliance items as stated above.

1.06 PROJECT/SITE CONDITIONS

A. Prior to installation, verify that related installations and materials are complete to ensure no interruption or interference by delinquent trades. Notify Owner of all such delinquencies and obtain review and direction prior to proceeding, or accept responsibility for correction of faulty/defective installations.

B. Permits and Fees: This Contractor shall arrange, apply for and pay for all permits, inspections, fees, and licenses required for this work by any legally constituted public authority. This Contractor shall furnish the Owner with final certificate of inspection at the completion of the work.

C. Cleaning of Equipment and Premises: This Contractor shall thoroughly clean all equipment and apparatus and leave in satisfactory condition for finish painting. If equipment has been supplied with the factory finish, the Contractor shall also be responsible for touch-up work and/or refinishing if required. During construction of the job, this Contractor shall be responsible for clean up of cartons, scrap or debris caused by this work.

1.07 SEQUENCING AND SCHEDULING

A. Contractor shall be responsible for scheduling the work of related trades to ensure timely and orderly progress of the total work to be performed.

1.08 GUARANTEES

A. New materials and equipment to be guaranteed free from defects and faulty workmanship for a period of one year to date of occupancy. Where longer periods are specified in the specification, such longer periods shall govern.

HEATING, VENTILATING, AND AIR CONDITIONING

PART 1 - GENERAL

1.01 SCOPE

A. The mechanical general requirements apply to work under this section. Furnish all materials and labor required to execute this work as indicated on the drawings, specified herein and necessary to complete the contract, including, but not limited to the following principle items:

1. Supply, return and general exhaust ductwork
2. Ductwork support
3. Ductwork accessories

PART 2 - PRODUCTS

2.01 HVAC EQUIPMENT

A. See equipment schedules on M001.

2.02 GREASE DUCT

A. Unlisted: Ducts shall be constructed of and supported by carbon steel not less than 0.060 of an inch (1.524 mm) (no. 16 msg) in thickness or stainless steel not less than 0.048 of an inch (1.219 mm) (no. 18 msg) in thickness.

B. Listed: Factory-built grease ducts in accordance with UL 1978 in accordance with their listings.

2.03 SUPPLY, RETURN AND ENVIRONMENTAL EXHAUST DUCTWORK

A. Galvanized steel ducts shall be constructed in accordance with ASTM A525 and ASTM A527 of galvanized steel sheet, lock -forming quality, having G60 zinc coating in conformance with ASTM A90.

B. Ductwork Fabrication

1. Provide ducts, plenums, access doors, fresh air intakes, and exhausts as indicated and required.
2. All ductwork shall be constructed, erected and tested in accordance with the most restrictive of local regulations, procedures detailed in the ASHRAE Handbook of Fundamentals or the applicable standards adopted by the Sheet Metal and Air Conditioning Contractors National Association. Prefabricated spiral lockseam ducts and fittings are preferred in lieu of rectangular ducts of galvanized steel.
3. Fabricate and support in accordance with SMACNA HVAC Duct Construction Standards - metal and flexible, and as indicated. Provide duct material, gauges, reinforcing, and sealing for operating pressures indicated.
4. Construct all tees, bends and elbows with radius of not less than 1-1/2 times width of duct on centerline. Where not possible and where rectangular elbows are used, provide air foil turning vanes.
5. Increase duct sizes gradually, not exceeding 15° divergence wherever possible; maximum 30° divergence upstream of equipment and 30° convergence downstream.
6. Provide standard 45° lateral wye takeoffs unless otherwise indicated where 90° low loss tee connection may be used.
7. Horizontal ductwork shall be strongly supported with galvanized hangers in accordance with the requirements of the ASHRAE Guide and public authorities having jurisdiction.

C. Round and Oval Ductwork Fabrication

1. All round duct shall be spiral lockseam construction.
2. Steel round duct shall be of standard spiral (without intermediate ribs) or single-rib construction and shall be provided according to the table below.

Diameter (or Equivalent Rectangular) (Inches)	Standard Spiral Gauge 0-2 Inches Wg	or 0-2 Inches Wg (Negative)
3-8	28	26
9-14	28	26
15-26	26	24

3. The use of round spiral duct for the pressures listed in table above shall be limited to systems whose maximum operating pressure never exceeds 2 inches wg for low pressure system and 10 inches wg for high pressure systems.
4. Duct shall be provided in continuous, unjoined lengths wherever possible. Except when interrupted by fittings, round spiral duct sections shall not be less than 12 feet long.
5. Fabricate round duct fittings per SMACNA Standard.

D. Rectangular Ductwork

1. Flat duct surfaces shall be crimped diagonally regardless of size. Longitudinal joints in all duct sizes may be flat-lock joints. Transverse joints and intermediate bracing shall be constructed of galvanized sheet metal or galvanized structural angles in accordance with requirements of the ASHRAE guide and public authorities having jurisdiction.
2. All rectangular ducts shall conform to the SMACNA HVAC duct construction Standards, 1985. THE MINIMUM DUCT GAUGE SHALL BE TWO GAUGES HEAVIER THAN TABLE 1-5 (2" W.G. STATIC POSITIVE OR NEGATIVE) OF THE SMACNA STANDARDS.
3. Transverse joints for rectangular ducts shall be government locking with standing seams and sealed with mastic or duct sealer. Duct tape is not acceptable.
4. Longitudinal joints on low pressure supply ducts with internal static pressure in excess of 0.75 inches of water pressure shall be pittsburgh locking seam and sealed with mastic or duct sealer. Duct tape is not acceptable.
5. Lock joints shall be hammered to make them airtight. Inside of duct shall present a smooth surface of flow of air.
6. Turns shall be made with a throat radius of not less than the duct width.

E. Plenums shall be made of 18 gauge galvanized sheet reinforced horizontally on a maximum of 48 inch centers by 1-1/2x1-1/4x1/8 inch galvanized angles and reinforced vertically by 1-1/2 inch standing seams.

F. Flexible Duct

1. Insulated low pressure flexible duct shall be a factory fabricated assembly consisting of a zinc-coated spring steel helix, with 1 inch thick fiberglass insulation, sheathed in a seamless vapor barrier jacket. the interior of the duct shall have a fire resistive coating to prevent fiber erosion. the duct shall have a straight run sound absorption of 3 decibels per foot and 5 decibels per foot of 45 degree bend. the composite assembly, including insulation and vapor barrier, shall meet the class 1 requirements of flame spread of 25' of less, smoke developed of 50 or less as set forth in nfpa bulletin no. 90-a and be labeled by underwriters' laboratories, inc. as an air duct.
2. Flexible duct shall be installed in a fully extended condition free of sags and kinks, using only the minimum length required. Flexible duct shall be suspended on 36 inch centers with a minimum 3/4 inch wide flat banding material.
3. Insulated low pressure flexible duct shall be by casco silentflex 2 or approved equal.
4. Flexible duct shall be city and state approved and shall be 5' 0" in length as manufactured with metal joint collars on both ends.
5. Aluma-flex type duct is not allowed.

2.04 DUCT SEALANT

A. Transverse joints and longitudinal seams in duct systems shall be sealed with a duct sealant of the type specified in paragraph 1. Spiral lockseams are not longitudinal seams and do not require duct sealant. All sealants shall exceed 500 hours without becoming brittle under ASTM-D572 test conditions (oxygen bomb), unless specified otherwise. No surface preparation or solvent cleaning shall be necessary to remove light coatings of oil and dust before applying sealant unless specified otherwise. Construction joints that are not fully welded shall be sealed according to paragraph 1 below.

1. Assembly joints to be installed indoors shall be sealed with Hardcast Iron Grip 601, United McGill Uni-Grip or equal (no known equal). Sealer shall be a water-based (vinyl-acrylic polymer) sealant formulated to withstand temperatures from -25 to +200EF. Surfaces to be sealed should be clean, dry and free from oil, grease and dirt. Sealant shall be nonflammable (wet) and fire retardant. Sealant shall have a UL Classification marking with a flame spread of 5 and smoke developed of 5 when applied to 18-gauge galvanized steel and a flame spread of 0 and smoke developed of 0 when applied to inorganic reinforced cementboard, both at a coverage of 40 square feet per gallon.

2.05 DUCTWORK SUPPORT

A. Low Velocity Duct Hangers:

1. Rectangular: Extend strap hangers down both sides of ducts; turn under bottom 2" minimum. Metal screw hangers to bottom of duct and to upper sides of duct at not more than 12" on center. Angle hangers may be formed by extending vertical bracing angles or by rods connection to bottom angles if size of bracing angles conforms to hanger schedule.
2. Round: Provide band of same size of hanger strap around duct and attach both ends to hanger with fasteners of rated load, per SMACNA 1976 Edition and details.

B. Horizontal Ductwork Support Schedule:

Maximum Half of Duct Perimeter	Pair at 10 ft. Spacing		Pair at 8 Ft. Spacing		Pair at 5 Ft. Spacing		Pair at 4 Ft. Spacing	
	Strap	Wire/Rod	Strap	Wire/Rod	Strap	Wire/Rod	Strap	Wire/Rod
$\frac{P}{2}$ = 30"	1"x22 ga.	10 ga.(.135")	1"x 22 ga.	10 ga.(.135")	1"x 22 ga.	12 ga.(.106")	1"x 22 ga.	12 ga.(.106")
$\frac{P}{2}$ = 72" A.	1"x 18 ga.	3/8"	1"x 20 ga.	1/4"	1"x 22 ga.	1/4"	1"x 22 ga.	1/4"
$\frac{P}{2}$ = 96"	1"x 16 ga.	3/8"	1"x 18 ga.	3/8"	1"x 20 ga.	3/8"	1"x 22 ga.	1/4"

2.06 INSULATION

A. Duct insulation for supply ducts between conditioned floors shall be R-4.2. Ducts below roof areas shall be provided with R-8.0. insulation.

B. Piping insulation shall be 2" JM micro-lox HP with ASJ jacket, Owens Corning SSL II ASJ max fiberglass insulation, Knauf insulation, or equal with outer jacket labeled for piping system.

2.07 CONTROLS

Thermostats shall be labeled with corresponding equipment tag number.

E. Balance the supply, return, and exhaust air systems to within ±5% of design air flow, by first arriving at the fan total air quantity, reading air velocities at cooling coils, return, exhaust air and outside air openings; and a duct traverse. The fan RPM shall then be adjusted for the specified air quantities allowing for a maximum of 2. The quantity of air to each outlet shall not be less than that shown on the drawings and not greater than 5% of that amount. If so instructed by the Mechanical Engineer, further balancing of temperatures shall be made and indicated by a thermometer or by the temperature recorder.

F. Perform Pitot Tube Traverse of all supply, return and exhaust systems.

1. Except as specifically indicated herein, Pitot Tube Traverse shall be taken in branch ducts to assure specified flow to all zones. Pitot tubes, associated instruments, traversing and testing techniques shall conform to the ASHRAE Handbook of Fundamentals.
2. Pitot Tube traverse may be omitted:
   a. Where the duct serves only a single room or the space and it's design volume is less than 1700 CFM.
3. Test holes shall be in a straight duct, as far as possible downstream from the elbows, bends, take-offs and other turbulence generating devices, to optimize reliability of flow measurements.

G. Furnish typewritten data for all air handling systems tabulating (inclusive of existing):

1. Quantity of air in CFM at each air outlet or inlet.
2. Dry and wet bulb temperatures at each thermostat to the nearest 1/10 of 1 degree.
3. Outdoor dry and wet bulb temperatures, wind direction and velocity, and barometric pressure at the time tests are conducted.
4. RPM of fan or blower.
5. RPM of motor.
6. Ampere input of each motor (one reading on each leg if three (3) phase).
7. Load Amperage and Brake Horsepower calculations on all motors ½ horsepower or larger.
8. Static pressure in inches water gauge at inlet of fan or blower.
9. Duct Traverse data.

H. The Air Balance Agency shall prepare a complete set of full scale drawings showing actual duct runs and outlet/inlet locations. Drawings shall be keyed to and furnished with the Air Balance Report. The mechanical plans are not acceptable for this purpose.

3.02 At the conclusion of tests, and after the acceptance by the engineer, system shall be turned over to Owner and a guarantee period of one (1) year will commence. This guarantee will cover all equipment installed under this contract and, during the guarantee period, all defects shall be remedied without cost to the Owner. A knowledgeable representative of the contractor shall, at the time of turnover, instruct the designated representative of the Owner in the proper operation and maintenance and shall supply him with three copies of all maintenance and operating instructions of the installed equipment neatly bound in three separate folders.

END OF SECTION

PART 3 - EXECUTION

3.01 BALANCING, TESTS, AND GUARANTEE

Total System Balance Includes the Following:

A. Preconstruction services including:
   1. Preliminary plan review and report (Chapter 25)

B. All performance testing and/or balancing of the air conditioning include:
   1. Supply air systems. - General (Chapter 17)
   2. Low pressure air systems. - (Chapter 18)
   3. Medium and high pressure air systems. (Chapter 19)
   4. Return and exhaust air systems. (Chapter 21)
   5. Special systems (Chapter 23) including:
      a. Sound
      b. Vibration
      c. Combustion
      d. Duct Leakage
   6. Temperature control system. (Chapter 24)
   7. Report and report forms. (Chapter 26)

C. On-line total system performance verification.

NOTE: Chapters referred to herein are detailed in the NATIONAL STANDARDS MANUAL OF THE ASSOCIATED AIR BALANCE COUNCIL (AABC).

D. Selection of the Test and Balance Agency

1. By Mechanical Contractor: Total system balance shall be performed by an independent, non-affiliated agency certified by the Associated Air Balance Council (AABC), TABB, or NEBB which specializes in and whose business is dedicated to testing, adjusting and verification of the HVAC system performance. The submittal of unbiased reports shall be timely upon completion of work. This work shall conform to AABC specifications referred to in Chapters 17 through 26 of the AABC National Standard (1989 Edition) and other criteria as set forth in this specification.
   a. The contractor shall select the Test and Balance Agency from a list of pre-qualified agencies which is available on request from the consulting engineer acting for the owner. The name of the selected Test and Balance Agency, plus the name and registration number of the certified Test and Balance Engineer, shall be submitted to the owner's representative for approval within ninety (90) days after award of the project contract.
   b. Test and Balance Agencies not pre-qualified must submit at least fifteen (15) days prior to commencement of work, proof of ability to meet the specifications and of having completed at least five (5) projects of similar size and scope.

JENNIFER ROBINSON ARCHITECTS
8218 ROYAL GORGE DRIVE
SAN DIEGO, CA 92119
619.571.9114

LICENSED ARCHITECT JENNIFER R. ROBINSON C30540 REN. 6-30-2027 STATE OF CALIFORNIA

ALL IDEAS, ARRANGEMENTS AND PLANS INDICATED OR REPRESENTED BY THIS DRAWING ARE OWNED BY, AND THE PROPERTY OF JENNIFER ROBINSON ARCHITECTS AND WERE CREATED, EVOLVED AND DEVELOPED FOR THE USE ON, AND IN CONNECTION WITH, THE SPECIFIED PROJECT. NONE OF SUCH IDEAS, DESIGNS, ARRANGEMENTS OR PLANS SHALL BE USED BY, OR DISCLOSED TO ANY PERSON, FIRM OR CORPORATION FOR ANY PURPOSE WHATSOEVER WITHOUT THE WRITTEN PERMISSION OF JENNIFER ROBINSON ARCHITECTS.

AKA HEADSTART, INC. DAY CARE
SITE & TENANT IMPROVEMENTS
698 W. MADISON AVENUE, EL CAJON, CA 92020

REGISTERED PROFESSIONAL ENGINEER TREVOR S. PROPST M 42119 MECHANICAL STATE OF CALIFORNIA

MDC MARINO DESIGN CONSULTING INC.
2615 CAMINO DEL RIO S. SUITE 402
SAN DIEGO, CA 92108
PH: 619-550-2615
www.mdcmechanical.com

ISSUE	DATE
☐ PLANCHECK SUBMITTAL	26 MAR 2026
⚠ RECHECK DRAWINGS	22 JUNE 2026

MECHANICAL SPECIFICATIONS

M401

SHEET OF 65

PLUMBING FIXTURE CONNECTION SCHEDULE

MARK	DESCRIPTION	MINIMUM PIPE CONNECTION				MANUFACTURER & MODEL NUMBER	REMARKS
		C.W.	H.W.	WASTE	VENT		
WC-1	WATER CLOSET - (FT) FLOOR MOUNTED (CHILDRENS/PRIMARY)	1/2"	-	4"	2"	AMERICAN STANDARD - BABY DEVORO, ELONGATED, 2-PIECE, 10.25" CHILDRENS HEIGHT, 1.28 GPF WITH LEFT HAND TRIP LEVER TANK, OPEN FRONT SEAT LESS COVER WITH NON SELF-SUSTAINING CHECK HINGES.	
WC-1A	WATER CLOSET - (FT) FLOOR MOUNTED (ADA)	1/2"	-	4"	2"	KOHLER - # K-25077-SS-0. "KINGSTON", 16-1/2" HEIGHT, VITREOUS CHINA, 1.28 GPF, TWO-PIECE, FLOOR MOUNT ELONGATED BOWL WITH LEFT HAND TRIP LEVEL. PROVIDE WITH BEMIS COMMERCIAL - # 1955CT, PLASTIC, ELONGATED, COMMERCIAL HEAVY-DUTY OPEN FRONT SEAT LESS COVER WITH NON SELF-SUSTAINING CHECK HINGES.	ADA COMPLIANT.
U-1	URINAL - (FV) WALL-MOUNTED (ADA)	1"	-	2"	2"	KOHLER - # K-20713-ETSS-0, "TEND", VITREOUS CHINA, 0.125 GPF, WALL-HUNG WASHOUT URINAL WITH 3/4" TOP SPUD. PROVIDE WITH SLOAN - # SOLIS 8186 BT, "SOLIS", 0.125 GPF, SOLAR POWERED, EXPOSED SENSOR FLUSH VALVE WITH DUAL-FILTERED FIXED BYPASS DIAPHRAGM, SINGLE FLUSH, AND ELECTRICAL OVERRIDE.	INSTALL URINAL AT ADA HEIGHT.
L-1	LAVATORY - WALL MOUNTED (ADA)	1/2"	1/2"	2"	2"	KOHLER - K-2007-0, "KINGSTON", VITREOUS CHINA, 21-1/4" X 18-1/8", WALL-MOUNT BATHROOM SINK WITH SINGLE FAUCET HOLE. PROVIDE WITH SLOAN - # EAF-275, "OPTIMA", POLISHED CHROME, 0.35 GPM, SOLAR-POWERED, DECK-MOUNTED FAUCET WITH INTEGRATED SIDE MIXER, MULTI-LAMINAR SPRAY, INFRARED SENSOR & GRID DRAIN.	ADA COMPLIANT. PROVIDE ASSE 1070 COMPLIANT MIXING VALVE. INSULATE TAILPIECE AND SUPPLIES WITH "HANDYSHIELD" OR APPROVED EQUAL.
S-1	SINK - SINGLE BASIN, COUNTER MOUNTED (ADA)	1/2"	1/2"	2"	2"	ELKAY - # LRAD221965PD, 22"x19.5"x6.5", 304 S.S., 18 GAUGE WITH SINGLE FAUCET HOLE, MOEN # 7594SRS, "ARBOR", S.S., GOOSENECK FAUCET WITH SINGLE LEVER HANDLE, PULL DOWN SPRAYER AND PERFECT DRAIN.	-
S-2	2-STATION HAND WASH SINK (ADA), WALL MOUNTED	1/2"	1/2"	2"	2"	KOHLER - # K-3200-0 "BROCKWAY", 32" X 14" X 7" SINGLE BOWL ADA, WALL-MOUNTED DUAL STATION SINK. PROVIDE WITH (2) CHICAGO FAUCETS - # 116.204.AB.1T, 0.5 GPM, GOOSENECK FAUCETS WITH INFRA-RED SENSOR & BATTERY POWER.	-
S-3	BREAK ROOM SINK - DOUBLE BASIN, COUNTER MOUNTED (ADA)	1/2"	1/2"	2"	2"	ELKAY - # LRAD332265PD, "LUSTERTONE CLASSIC", 304 STAINLESS STEEL, 33" x 22" x 6-1/2", DOUBLE BASIN WITH REAR CENTER PERFECT DRAIN. PROVIDE WITH KOHLER - # K-596-CP, "SIMPLICE", POLISHED CHROME, PULL DOWN, HIGH ARCH FAUCET WITH SINGLE HANDLE AND THREE-FUNCTION SPRAYHEAD.	ADA COMPLIANT.
S-4	HAND SINK - WALL MOUNTED (ADA)	1/2"	1/2"	2"	2"	KOHLER - K-2007-0, "KINGSTON", VITREOUS CHINA, 21-1/4" X 18-1/8", WALL-MOUNT SINK WITH SINGLE FAUCET HOLE. PROVIDE WITH SLOAN - # EAF-275, "OPTIMA", POLISHED CHROME, 0.35 GPM, SOLAR-POWERED, DECK-MOUNTED FAUCET WITH INTEGRATED SIDE MIXER, MULTI-LAMINAR SPRAY, INFRARED SENSOR & GRID DRAIN.	-
S-5	SCULLERY SINK - FREE STANDING	1/2"	1/2"	2"	2"	ELKAY - MODEL # 3C18X18-2-24X, 16 GAUGE, S.S., (3) 18"x18"x12" BASINS, (2) 24" DRAINBOARDS, 10" BACKSPLASH WITH T&S BRASS # MPY-8WLN-08-CR, 8" CENTER FAUCET WITH 8" SWING NOZZLE & 0.65 GPM, S.S., FLEXIBLE HOSE SPRAY.	-
S-6	3-STATION HAND WASH SINK (ADA), WALL MOUNTED	1/2"	1/2"	2"	2"	SANI-LAV - # 5A3B-0.5 , 65" X 16-1/2" X 5", 16 GA STAINLESS STEEL, WALL-MOUNTED THREE-STATION ADA SINK. PROVIDE WITH (3) 0.5 GPM LOW-FLOW GOOSENECK FAUCETS WITH INFRA-RED SENSOR & BATTERY POWER.	ADA COMPLIANT.
MS-1	MOP SINK	3/4"	3/4"	3"	2"	FLORESTONE - # MSR-2424, 24" x 24" x 10" DEEP BASIN, WITH RIM GUARDS, DRAIN, MOP HANGER. PROVIDE WITH CHICAGO - # 897, FAUCET WITH VACUUM BREAKER.	-
WB-1	CLOTHES WASHER BOX	1/2"	1/2"	2"	1 1/2"	OATEY - # 38540, "QUADTRO", COPPER, WASHING MACHINE OUTLET BOX WITH HAMMER ARRESTORS AND 1/4 TURN BALL VALVES.	-
TP-1	AUTOMATIC TRAP PRIMER	1/2"	-	-	-	PRECISION PLUMBING PRODUCTS - # PR-500, PRIME-RITE WITH DISTRIBUTION MODULE AND ACCESS PANEL.	-
FD-1	FLOOR DRAIN	-	-	2"	1-1/2"	ZURN - # Z415B-P, 5" DIAMETER, CAST IRON BODY, NICKEL BRONZE TOP, BODY ASSEMBLY FLOOR DRAIN WITH "TYPE B" STRAINER AND TRAP PRIMER CONNECTION.	ASME A112.6.3 COMPLIANT.
DF-1	DRINKING FOUNTAIN - WALL MTD, DUAL HEIGHT (ADA)	1/2"	-	2"	1-1/2"	ELKAY - # LZSTL8WSLK EZH2O FILTERED AND CHILLED BOTTLE FILLING STATION W/ BI-LEVEL DRINKING FOUNTAIN.	ADA COMPLIANT.

PLUMBING EQUIPMENT SCHEDULE

MARK	DESCRIPTION	LOCATION	MANUFACTURER & MODEL NUMBER	REMARKS
WH 1N	WATER HEATER - ELECTRIC	SEE PLANS	A.O. SMITH - # DSE-50A, 50 GALLON CAPACITY, 18000 WATTS INPUT, SINGLE ELEMENT, 208V/1PH/60HZ, 86.5 AMPS,124 GPH RECOVERY RATE AT 60°F TEMPERATURE RISE. OPERATING WEIGHT: 708 LBS.	TERMINATE P&T RELIEF LINE AT MOP SINK.
CP 1N	CIRCULATION PUMP	SEE PLANS	BELL & GOSSETT - SERIES 100, BRONZE BODY, BRASS IMPELLER, 1/12HP, 115V/1PH/60HZ, 1.75 AMPS, 1725 RPM, 1 GPM AT 5 FT HD.	-
GD 1N	GARBAGE DISPOSER	SEE PLANS	INSINKERATOR - BADGER 5, STAINLESS STEEL CONSTRUCTION, 1/2HP, 120V/1PH/60HZ.	-

PIPE INSULATION SCHEDULE

FLUID TEMPERATURE RANGE (°F)	CONDUCTIVITY RANGE (Btu- inch per hour per square foot per °F)	INSULATION MEAN RATING TEMPERATURE (°F)	NOMINAL PIPE DIAMETER (inches)					
			<1	1 to <1.5	1.5	2 to <4	4 to <8	8 and larger
			INSULATION THICKNESS REQUIRED (inches)					
SPACE HEATING, HOT WATER SYSTEMS (STEAM, STEAM CONDENSATE AND HOT WATER) AND SERVICE WATER HEATING SYSTEMS (RECIRCULATING SECTIONS, ALL PIPING IN ELECTRIC TRACE TAPE SYSTEMS, AND FIRST 8 FEET OF PIPING FROM THE STORAGE TANK FOR NON-RECIRCULATING SYSTEMS)								
ABOVE 350	0.32 - 0.34	250	4.5	5.0	5.0	**	**	**
251-350	0.29 - 0.32	200	3.0	4.0	4.5	**	**	**
201-250	0.27 - 0.30	150	2.5	2.5	2.5	**	**	**
141-200	0.25 - 0.29	125	1.5	1.5	2.0	**	**	**
105-140	0.22 - 0.28	100	1.0	1.5	1.5	**	**	**
SPACE COOLING SYSTEMS (CHILLED WATER, REFRIGERANT, AND BRINE)								
40-60	0.21 - 0.27	75	NON RES 0.5 / RES 0.75		NON RES 0.5 / RES 0.75		1.0	**	**	**
BELOW 40	0.20 - 0.26	50	1.0		1.5		1.5	**	**	**

* TABLE BASED ON 2025 BUILDING ENERGY EFFICIENCY STANDARDS TABLE 120.3-A
* TABLE VALUES FOR TEMPERATURE 105-140 HAS BEEN UPDATED TO INCORPORATE MORE STRINGENT REQUIREMENTS OF THE 2025 CPC SECTION 609.11.2.
** INSULATION FOR 2" OR LARGER PIPE SHALL COMPLY WITH SECTION 609.12.2 CPC.

PLUMBING PLAN CHECK NOTES

ENERGY CONSERVATION (PLUMBING)

A. ALL WATER HEATERS SHALL BE LISTED IN THE CALIFORNIA ENERGY COMMISSION LIST OF APPROVED WATER HEATERS.

B. ALL PLUMBING FIXTURES, FAUCETS AND SHOWER HEADS SHALL COMPLY WITH CEC MAXIMUM FLOW REQUIREMENTS PER MINUTE. LAVATORY FAUCETS IN RESTROOMS SHALL BE THE SELF CLOSING TYPE. PROVIDE MIXING VALVES AT SHOWER CONTROLS.

MAXIMUM FIXTURE FLOW RATES

FIXTURE TYPE	MAXIMUM FLOW RATE
SHOWERHEADS	1.8 GPM @ 80 PSI
LAVATORY FAUCET	0.5 GPM @ 60 PSI
KITCHEN FAUCET	1.8 GPM @ 60 PSI
METERING FAUCET	0.20 GALLONS/CYCLE
WATER CLOSETS	1.28 GALLONS/FLUSH
URINALS	0.125 GALLONS/FLUSH

C. LAVATORY FAUCETS IN RESTROOMS SHALL BE THE SELF CLOSING TYPE AND SHALL NOT EXCEED A WATER FLOW OF 0.20 GAL/CYCLE. EACH LAVATORY FAUCET SHALL NOT EXCEED A WATER FLOW OF 0.50 GPM.

D. THE SUM OF FLOW TO ALL THE HEADS SHALL NOT EXCEED 1.8 GPM @ 80 PSI OR THE SHOWER SHALL BE DESIGNED SO THAT ONLY ONE HEAD IS ON AT A TIME WHEN A SHOWER IS PROVIDED WITH MULTIPLE SHOWER HEADS.

E. ALL SERVICE HOT WATER PIPING SHALL BE INSULATED IN ACCORDANCE WITH SECTION 120.3 OF THE 2025 CALIFORNIA BUILDING ENERGY EFFICIENCY STANDARDS.

F. DOMESTIC HOT WATER PIPING SHALL BE INSULATED PER SECTION 609.12 CPC.

G. A MAINTENANCE LABEL SHALL BE AFFIXED TO ALL EQUIPMENT AND A MAINTENANCE MANUAL SHALL BE PROVIDED FOR THE OWNER'S USE. THE LABEL SHALL INDICATE ROUTINE MAINTENANCE REQUIRED OR SHALL REFERENCE BY NUMBER WHICH OPERATING MANUALS EXPLAIN MAINTENANCE REQUIREMENTS IN GREATER DETAIL.

H. ALL EQUIPMENT MUST COMPLY WITH THE STATE OF CALIFORNIA B.E.E.S. 2025. HEATERS FOR DOMESTIC HOT WATER AND/OR POOLS SHALL MEET REQUIREMENTS PER LATEST SECTIONS OF THE B.E.E.S. 2025. COMPLIANCE CERTIFICATES SHALL BE PROVIDED WITH EQUIPMENT SUBMITTALS.

I. WATER HEATERS SHALL COMPLY WITH SECTION 608.3 C.P.C. 2025 FOR THERMAL EXPANSION REQUIREMENTS. PROVIDE EXPANSION TANK OR OTHER APPROVED METHOD OF RELIEVING PRESSURE. A MINIMUM DISTANCE OF 4" MUST BE MAINTAINED ABOVE THE CONTROLS WITH THE LOWER SEISMIC STRAPPING OF THE WATER HEATER .

J. DRINKING FOUNTAIN SHALL BE INSTALLED AND SO REGULATED THAT A JET OF WATER EXTENDING AT LEAST TWO INCHES IN HEIGHT FROM THE WATER ORIFICE SHALL BE AVAILABLE WHEN TURNED ON. THE ORIFICE SHALL NOT BE ACCESSIBLE TO THE MOUTH OF THE DRINKER NOR SUBJECT TO IMMERSION (SEC. 406.5.1 CPC).

K. EACH VENT SHALL RISE VERTICALLY TO A POINT NOT LESS THAN SIX (6) INCHES ABOVE THE FLOOD-LEVEL RIM OF THE FIXTURES SERVED BEFORE OFFSETTING HORIZONTALLY OR BEFORE CONNECTING TO ANOTHER VENT.

L. BUILDING DRAIN AND VENT PIPING MATERIAL SHALL COMPLY WITH SECTION 701.0 AND 903.0 OF THE CALIFORNIA PLUMBING CODE.

M. FLOOR DRAINS OR SIMILAR TRAPS DIRECTLY CONNECTED TO THE DRAINAGE SYSTEM AND SUBJECT TO INFREQUENT USE SHALL BE PROVIDED WITH AN APPROVED AUTOMATIC MEANS OF MAINTAINING THEIR WATER SEALS.

N. EACH FIXTURE TRAP SHALL HAVE A PROTECTING VENT SO LOCATED THAT THE DEVELOPED LENGTH OF THE TRAP ARM FROM THE TRAP WEIR TO THE INNER EDGE OF THE VENT SHALL BE WITHIN THE DISTANCE GIVEN IN TABLE 1002.2 CPC, BUT IN NO CASE LESS THAN TWO TIME THE DIAMETER OF THE TRAP ARM.

O. DISPOSER SHALL EITHER MODULATE THE USE OF WATER TO NO MORE THAN 1 GPM WHEN THE DISPOSER IS NOT IN USE OR SHALL AUTOMATICALLY SHUT OFF AFTER NO MORE THAT 10 MINUTES OF INACTIVITY. DISPOSERS SHALL USE NO MORE THAN 8 GPM OF WATER.

MATERIALS & PIPING IDENTIFICATION

A. PLEASE SEE PLUMBING SPECIFICATIONS.

B. STATE & HEALTH SAFETY CODE SEC. 17921.9 BANS THE USE OF CHLORINATED POLYVINYL CHLORIDE (CPVC) FOR INTERIOR WATER-SUPPLY PIPING.

C. IDENTIFICATION OF POTABLE AND NON-POTABLE WATER PIPES & OUTLETS SHALL COMPLY WITH SECTION 614.0 OF THE CPC.

HOSE BIBBS

A. ALL HOSE BIBBS SHALL HAVE PERMANENTLY MOUNTED VACUUM BREAKERS.

FLOOR SINKS & FLOOR DRAINS

A. ALL FLOOR SINKS SHALL BE USED FOR A.C. CONDENSATE, P & T RELIEF VALVES AND EQUIPMENT DRAINS ONLY. NO OTHER USES SHALL BE ALLOWED UNLESS APPROVED BY LOCAL BUILDING DEPARTMENT.

B. VENTS MUST RISE MINIMUM 5" ABOVE THE FLOOD LEVEL RIM OF THE FIXTURES THEY SERVE BEFORE OFFSETTING HORIZONTALLY.

CROSS CONNECTION PROTECTION

A. CROSS CONNECTION PROTECTION SHALL BE PROVIDED AT ALL POTABLE WATER SUPPLIED APPLIANCES AND EQUIPMENT.

BACKFLOW PROTECTION

A. BACKWATER VALVE SHALL BE INSTALLED ON THE DOWNSTREAM OF PLUMBING FIXTURES THAT ARE LOCATED ON A FLOOR LEVEL THAT IS LOWER THAN THE NEXT UPSTREAM MANHOLE COVER OF THE PUBLIC OR PRIVATE SEWER SYSTEM PER SECTION 701.1 CPC AND SUBJECT TO FIELD INSPECTION APPROVAL.

GENERAL NOTES

ALL PLUMBING FIXTURES, EQUIPMENT AND TRIM SHALL BE OF LEAD-FREE CONSTRUCTION COMPLYING WITH AB-1953 STANDARDS.

PLUMBING LEGEND

SYMBOL	ABBR.	DESCRIPTION
	W./S.	NEW WASTE OR SOIL PIPING BELOW GRADE
	W./S.	NEW WASTE OR SOIL PIPING ABOVE GRADE.
	V	VENT PIPING
	W./S.	EXISTING WASTE OR SOIL PIPING BELOW GRADE.
	CW	COLD WATER PIPING
	HW	HOT WATER PIPING
	HWR	HOT WATER RETURN PIPING
CD	COND.	CONDENSATE DRAIN PIPING
	S.O.V.	SHUT-OFF VALVE
	PV	PLUG VALVE
	CV	CHECK VALVE
	PRV	PRESSURE REDUCING VALVE
		DIRECTION OF FLOW
FCO	FCO	FLOOR CLEANOUT
	WCO	WALL CLEANOUT
	POC	POINT OF CONNECTION
	VTR	VENT THRU ROOF
	B.V.	BALANCING VALVE
	WHA	WATER HAMMER ARRESTOR
TP	TP	TRAP PRIMER LINE

PIPE MATERIALS SCHEDULE

SANITARY SEWER AND WASTE PIPING: (BELOW AND ABOVE GRADE)	SCHEDULE 40 SANITARY PVC PIPE AND FITTINGS WITH SOLVENT WELD JOINTS (SOLID CORE).
VENT PIPING:	SAME AS SANITARY WASTE.
DOMESTIC COLD AND HOT WATER PIPING: (ABOVE GRADE)	TYPE "L" HARD DRAWN, COPPER PIPE AND FITTINGS WITH LEAD FREE SOLDER JOINTS (INSULATE HOT WATER PIPING).
CONDENSATE DRAIN PIPING: (ABOVE GRADE)	TYPE 'M', HARD DRAWN COPPER PIPE AND FITTINGS WITH LEAD-FREE SOLDER JOINTS (INSULATED).

JENNIFER ROBINSON ARCHITECTS
8218 ROYAL GORGE DRIVE
SAN DIEGO, CA 92119
619.571.9114

LICENSED ARCHITECT JENNIFER R. ROBINSON Jennifer Robinson C30540 REN. 6-30-2027 STATE OF CALIFORNIA

ALL IDEAS, ARRANGEMENTS AND PLANS INDICATED OR REPRESENTED BY THIS DRAWING ARE OWNED BY, AND THE PROPERTY OF JENNIFER ROBINSON ARCHITECTS AND WERE CREATED, EVOLVED AND DEVELOPED FOR THE USE ON, AND IN CONNECTION WITH, THE SPECIFIED PROJECT. NONE OF SUCH IDEAS, DESIGNS, ARRANGEMENTS OR PLANS SHALL BE USED BY, OR DISCLOSED TO ANY PERSON, FIRM OR CORPORATION FOR ANY PURPOSE WHATSOEVER WITHOUT THE WRITTEN PERMISSION OF JENNIFER ROBINSON ARCHITECTS.

AKA HEADSTART, INC. DAY CARE
SITE & TENANT IMPROVEMENTS
698 W. MADISON AVENUE, EL CAJON, CA 92020

ISSUE	DATE
☐ PLANCHECK SUBMITTAL	26 MAR 2026
⚠ RECHECK DRAWINGS	22 JUNE 2026

REGISTERED PROFESSIONAL ENGINEER TREVOR S. PROPST M 42119 MECHANICAL STATE OF CALIFORNIA

MDC MARINO DESIGN CONSULTING INC.
2615 CAMINO DEL RIO S. SUITE 402
SAN DIEGO, CA 92108
PH: 619-550-2615
www.mdcmechanical.com

PLUMBING SCHEDULES, LEGEND, AND NOTES

P001

SHEET OF 65

WATER PRESSURE ANALYSIS

TOTAL ESTIMATED FIXTURE UNITS (NEW = - FU)	104
TOTAL BUILDING ESTIMATED GPM DEMAND	45
ESTIMATED MAIN PRESSURE (PSIG)	55
PRESSURE DROP THRU WATER METER (PSIG)	10
PRESSURE DROP THRU BACKFLOW PREVENTER (PSIG)	10
AVAILABLE PRESSURE (PSIG)	35
DIFFERENCE IN ELEVATION PRESS. DROP (PSIG)	6.5
RESIDUAL PRESSURE REQUIRED (PSIG)	25
PRESSURE AVAILABLE FOR DROP (PSIG)	3.5
LONGEST DEVELOPED RUN OF PIPE (FEET)	142
MAXIMUM ALLOWABLE PRESSURE DROP (PSIG/100 FT.)	2.5

WATER PIPE SIZE SCHEDULE (COLD WATER)

SIZE	GPM	FT./SEC.	FT-FU	FV-FU
1/2"	1	8 MAX.	1	0
3/4"	4	8 MAX.	5	0
1"	7	8 MAX.	9	1.5
1-1/4"	15	8 MAX.	21	3
1-1/2"	24	8 MAX.	38	8
2"	49	8 MAX.	125	46

WATER PIPE SIZE SCHEDULE (HOT WATER)

SIZE	GPM	FT./SEC.	FT-FU
1/2"	1	5 MAX.	1
3/4"	4	5 MAX.	5
1"	7	5 MAX.	9
1-1/4"	15	5 MAX.	21
1-1/2"	24	5 MAX.	28
2"	47	5 MAX.	115

WATER METER DATA CARD

Appliances, Appurtances or Fixtures	Minimum Fixture Branch Pipe Size	Private	Public	Assembly	X	# Fixtures Added	# Fixtures Removed	# Fixtures Remaining	TOTAL ACROSS ‡
Bathtub or Combination Bath /Shr (fill)	1/2"	4.0	4.0	-	X	-	-	-	-
3/4" Bathtub Fill Valve	3/4"	10.0	10.0	-	X	-	-	-	-
Bidet	1/2"	1.0	-	-	X	-	-	-	-
Clothes Washer, domestic	1/2"	4.0	4.0	-	X	2	-	-	+8
Dental Unit, cuspidor	1/2"	-	1.0	-	X	-	-	-	-
Dishwasher, domestic	1/2"	1.5	1.5	-	X	-	-	-	-
Drinking Fountain or Water Cooler	1/2"	0.5	0.5	0.75	X	3	-	-	+1.5
Hose Bib	1/2"	2.5	2.5	-	X	-	-	-	-
Hose Bib, each additional	1/2"	1.0	1.0	-	X	-	-	-	-
Lavatory	1/2"	1.0	1.0	1.0	X	39	2	37	+37
Lawn Sprinkler, each head	-	1.0	1.0	-	X	-	-	-	-
Mobile Home, each (Minimum)	-	12.0	-	-	X	-	-	-	-
Bar Sink/Break sinks	1/2"	1.0	2.0	-	X	1	-	-	+2
Clinic Faucet Sink	1/2"	-	3.0	-	X	-	-	-	-
Clinic Flushometer Valve with or without faucet	1"	-	8.0	-	X	-	-	-	-
Kitchen Sink, domestic	1/2"	1.5	1.5	-	X	2	-	-	+3
Laundry Sink	1/2"	1.5	1.5	-	X	-	-	-	-
Service Sink or Mop Basin	1/2"	1.5	3.0	-	X	1	-	-	+3
Washup Sink, each set of faucets	1/2"	-	2.0	-	X	1	-	-	+2
Shower, per head	1/2"	2.0	2.0	-	X	-	-	-	-
Urinal, 0.125 GPF Flushometer Valve	3/4"	-	3.0	4.0	X	4	-	-	+12
Urinal, greater than 1.0 GPF Flush Valve	3/4"	-	5.0	6.0	X	-	-	-	-
Urinal, flush tank	1/2"	2.0	2.0	3.0	X	-	-	-	-
Washfountain, circular spray	3/4"	-	4.0	-	X	-	-	-	-
Water Closet, 1.28 GPF Gravity Tank	1/2"	2.5	2.5	3.5	X	-	-	-	-
Water Closet, 1.28 GPF Flushometer Tank	1/2"	2.5	2.5	3.5	X	15	2	13	+35.5
Water Closet, 1.28 Flushometer Valve	1"	5.0	5.0	8.0	X	-	-	-	-

For Explanations, see 2022 California Plumbing Code

Total Fixture Units ➡ Show NET increase or decrease in demand +104

JENNIFER ROBINSON ARCHITECTS

8218 ROYAL GORGE DRIVE
SAN DIEGO, CA 92119
619.571.9114

LICENSED ARCHITECT
JENNIFER R. ROBINSON
Jennifer Robinson
C30540
REN. 6-30-2027
STATE OF CALIFORNIA

ALL IDEAS, ARRANGEMENTS AND PLANS INDICATED OR REPRESENTED BY THIS DRAWING ARE OWNED BY, AND THE PROPERTY OF JENNIFER ROBINSON ARCHITECTS AND WERE CREATED, EVOLVED AND DEVELOPED FOR THE USE ON, AND IN CONNECTION WITH, THE SPECIFIED PROJECT. NONE OF SUCH IDEAS, DESIGNS, ARRANGEMENTS OR PLANS SHALL BE USED BY, OR DISCLOSED TO ANY PERSON, FIRM OR CORPORATION FOR ANY PURPOSE WHATSOEVER WITHOUT THE WRITTEN PERMISSION OF JENNIFER ROBINSON ARCHITECTS.

AKA HEADSTART, INC. DAY CARE
SITE & TENANT IMPROVEMENTS
698 W. MADISON AVENUE, EL CAJON, CA 92020

REGISTERED PROFESSIONAL ENGINEER
TREVOR S. PROPHET
M 42119
MECHANICAL
STATE OF CALIFORNIA

MDC MARINO DESIGN CONSULTING INC.

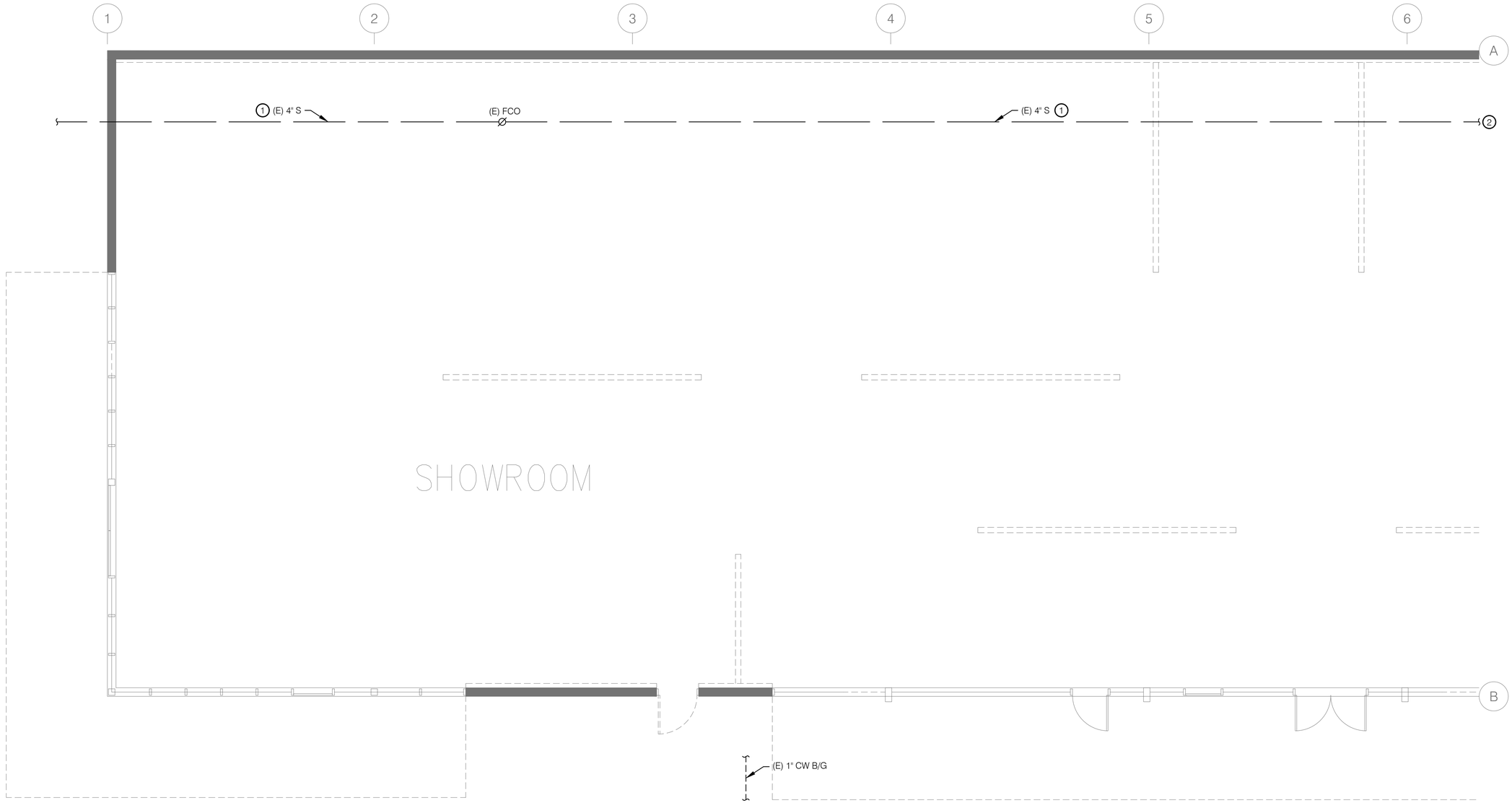
2615 CAMINO DEL RIO S. SUITE 402
SAN DIEGO, CA 92108
PH: 619-550-2615
www.mdcmechanical.com

ISSUE	DATE
☐ PLANCHECK SUBMITTAL	26 MAR 2026
⚠ RECHECK DRAWINGS	22 JUNE 2026

PLUMBING SCHEDULES, LEGEND, AND NOTES

P002

SHEET OF 65



PARTIAL PLUMBING FLOOR PLAN (WEST) - DEMOLITION

SCALE: 1/4"=1'-0" (1 / P101)

SHEET NOTES

1. EXISTING 4" SEWER PIPING BELOW GRADE TO REMAIN (CONTRACTOR TO VERIFY EXACT LOCATION IN FIELD).
2. SEE SHEET P102 FOR CONTINUATION.

GENERAL NOTES

1. CONTRACTOR TO VERIFY ALL EXISTING CONDITIONS AND EQUIPMENT IN FIELD PRIOR TO START OF WORK.

JENNIFER ROBINSON ARCHITECTS
8218 ROYAL GORGE DRIVE
SAN DIEGO, CA 92119
619.571.9114

LICENSED ARCHITECT — JENNIFER R. ROBINSON — C30540 — REN. 6-30-2027 — STATE OF CALIFORNIA

ALL IDEAS, ARRANGEMENTS AND PLANS INDICATED OR REPRESENTED BY THIS DRAWING ARE OWNED BY, AND THE PROPERTY OF JENNIFER ROBINSON ARCHITECTS AND WERE CREATED, EVOLVED AND DEVELOPED FOR THE USE ON, AND IN CONNECTION WITH, THE SPECIFIED PROJECT. NONE OF SUCH IDEAS, DESIGNS, ARRANGEMENTS OR PLANS SHALL BE USED BY, OR DISCLOSED TO ANY PERSON, FIRM OR CORPORATION FOR ANY PURPOSE WHATSOEVER WITHOUT THE WRITTEN PERMISSION OF JENNIFER ROBINSON ARCHITECTS.

AKA HEADSTART, INC. DAY CARE
SITE & TENANT IMPROVEMENTS
698 W. MADISON AVENUE, EL CAJON, CA 92020

ISSUE	DATE
☐ PLANCHECK SUBMITTAL	26 MAR 2026
⚠ RECHECK DRAWINGS	22 JUNE 2026

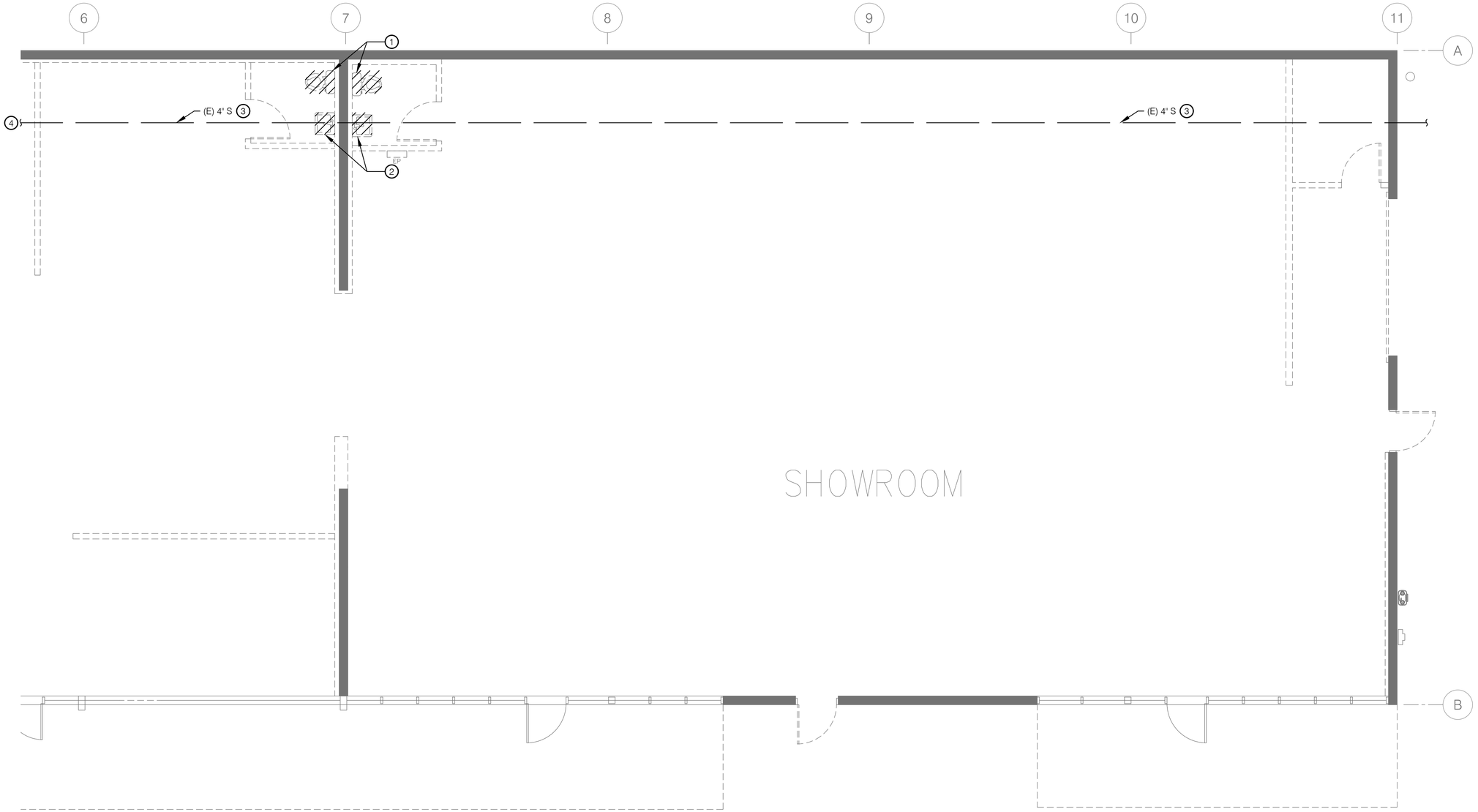
REGISTERED PROFESSIONAL ENGINEER — TREVOR S. PROPHET — M 42119 — MECHANICAL — STATE OF CALIFORNIA

MDC MARINO DESIGN CONSULTING INC.
2615 CAMINO DEL RIO S. SUITE 402
SAN DIEGO, CA 92108
PH: 619-550-2615
www.mdcmechanical.com

PARTIAL PLUMBING FLOOR PLAN (WEST) - DEMOLITION

P101

SHEET OF 65



PARTIAL PLUMBING FLOOR PLAN (EAST) - DEMOLITION

SCALE: 1/4"=1'-0" (1/P102)

SHEET NOTES

1. REMOVE EXISTING WATER CLOSET. CAP WASTE PIPING BELOW GRADE. CAP VENT AND CW PIPING ABOVE CEILING (CONTRACTOR TO VERIFY EXACT LOCATION IN FIELD).
2. REMOVE EXISTING LAVATORY. CAP WASTE PIPING BELOW GRADE. CAP VENT, CW, AND HW PIPING ABOVE CEILING (CONTRACTOR TO VERIFY EXACT LOCATION IN FIELD). REMOVE EXISTING WATER HEATER.
3. EXISTING 4" SEWER PIPING BELOW GRADE TO REMAIN (CONTRACTOR TO VERIFY EXACT LOCATION IN FIELD).
4. SEE SHEET P101 FOR CONTINUATION.

GENERAL NOTES

1. CONTRACTOR TO VERIFY ALL EXISTING CONDITIONS AND EQUIPMENT IN FIELD PRIOR TO START OF WORK.

JENNIFER ROBINSON ARCHITECTS
8218 ROYAL GORGE DRIVE
SAN DIEGO, CA 92119
619.571.9114

LICENSED ARCHITECT — JENNIFER R. ROBINSON — C30540 — REN. 6-30-2027 — STATE OF CALIFORNIA

ALL IDEAS, ARRANGEMENTS AND PLANS INDICATED OR REPRESENTED BY THIS DRAWING ARE OWNED BY, AND THE PROPERTY OF JENNIFER ROBINSON ARCHITECTS AND WERE CREATED, EVOLVED AND DEVELOPED FOR THE USE ON, AND IN CONNECTION WITH, THE SPECIFIED PROJECT. NONE OF SUCH IDEAS, DESIGNS, ARRANGEMENTS OR PLANS SHALL BE USED BY, OR DISCLOSED TO ANY PERSON, FIRM OR CORPORATION FOR ANY PURPOSE WHATSOEVER WITHOUT THE WRITTEN PERMISSION OF JENNIFER ROBINSON ARCHITECTS.

AKA HEADSTART, INC. DAY CARE
SITE & TENANT IMPROVEMENTS
698 W. MADISON AVENUE, EL CAJON, CA 92020

ISSUE	DATE
☐ PLANCHECK SUBMITTAL	26 MAR 2026
⚠ RECHECK DRAWINGS	22 JUNE 2026

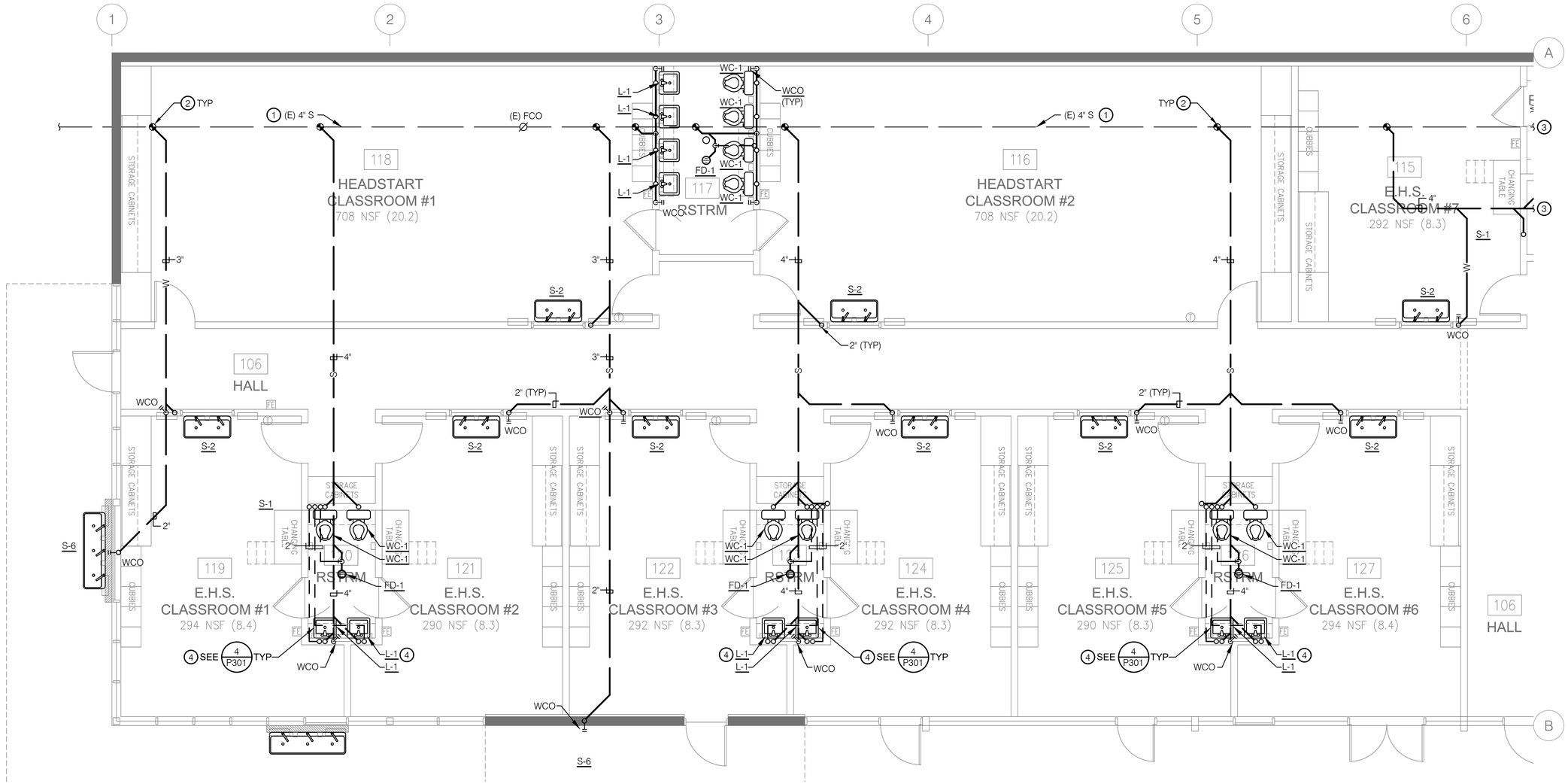
REGISTERED PROFESSIONAL ENGINEER — TREVOR S. PROPHET — M 42119 — MECHANICAL — STATE OF CALIFORNIA

MDC MARINO DESIGN CONSULTING INC.
2615 CAMINO DEL RIO S. SUITE 402
SAN DIEGO, CA 92108
PH: 619-550-2615
www.mdcmechanical.com

PARTIAL PLUMBING FLOOR PLAN (EAST) - DEMOLITION

P102

SHEET OF 65



PARTIAL PLUMBING FLOOR PLAN (WEST) - UNDERGROUND SANITARY WASTE AND VENT PIPING

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

SHEET NOTES

1. EXISTING 4" SEWER PIPING BELOW GRADE TO REMAIN.
2. POC OF NEW SEWER PIPING TO EXISTING BELOW GRADE (CONTRACTOR TO VERIFY EXACT LOCATION IN FIELD).
3. SEE SHEET P202 FOR CONTINUATION.
4. PROVIDE ISLAND SINK VENTING.

GENERAL NOTES

1. CONTRACTOR SHALL VERIFY EXACT PIPE SIZES, LOCATIONS, INVERT ELEVATIONS, AND POC'S PRIOR TO START OF WORK.
2. SLOPE ALL WASTE AND SEWER PIPING AT 2% (TYP).
3. SLOPE ALL CONDENSATE DRAIN PIPING AT 1%.
4. REFER TO ARCHITECTURAL PLANS FOR EXACT PLACEMENT OF FLOOR DRAIN AND FLOOR CLEAN-OUT.

JENNIFER ROBINSON ARCHITECTS
8218 ROYAL GORGE DRIVE
SAN DIEGO, CA 92119
619.571.9114

ALL IDEAS, ARRANGEMENTS AND PLANS INDICATED OR REPRESENTED BY THIS DRAWING ARE OWNED BY, AND THE PROPERTY OF JENNIFER ROBINSON ARCHITECTS AND WERE CREATED, EVOLVED AND DEVELOPED FOR THE USE ON, AND IN CONNECTION WITH, THE SPECIFIED PROJECT. NONE OF SUCH IDEAS, DESIGNS, ARRANGEMENTS OR PLANS SHALL BE USED BY, OR DISCLOSED TO ANY PERSON, FIRM OR CORPORATION FOR ANY PURPOSE WHATSOEVER WITHOUT THE WRITTEN PERMISSION OF JENNIFER ROBINSON ARCHITECTS.

AKA HEADSTART, INC. DAY CARE SITE & TENANT IMPROVEMENTS

698 W. MADISON AVENUE, EL CAJON, CA 92020

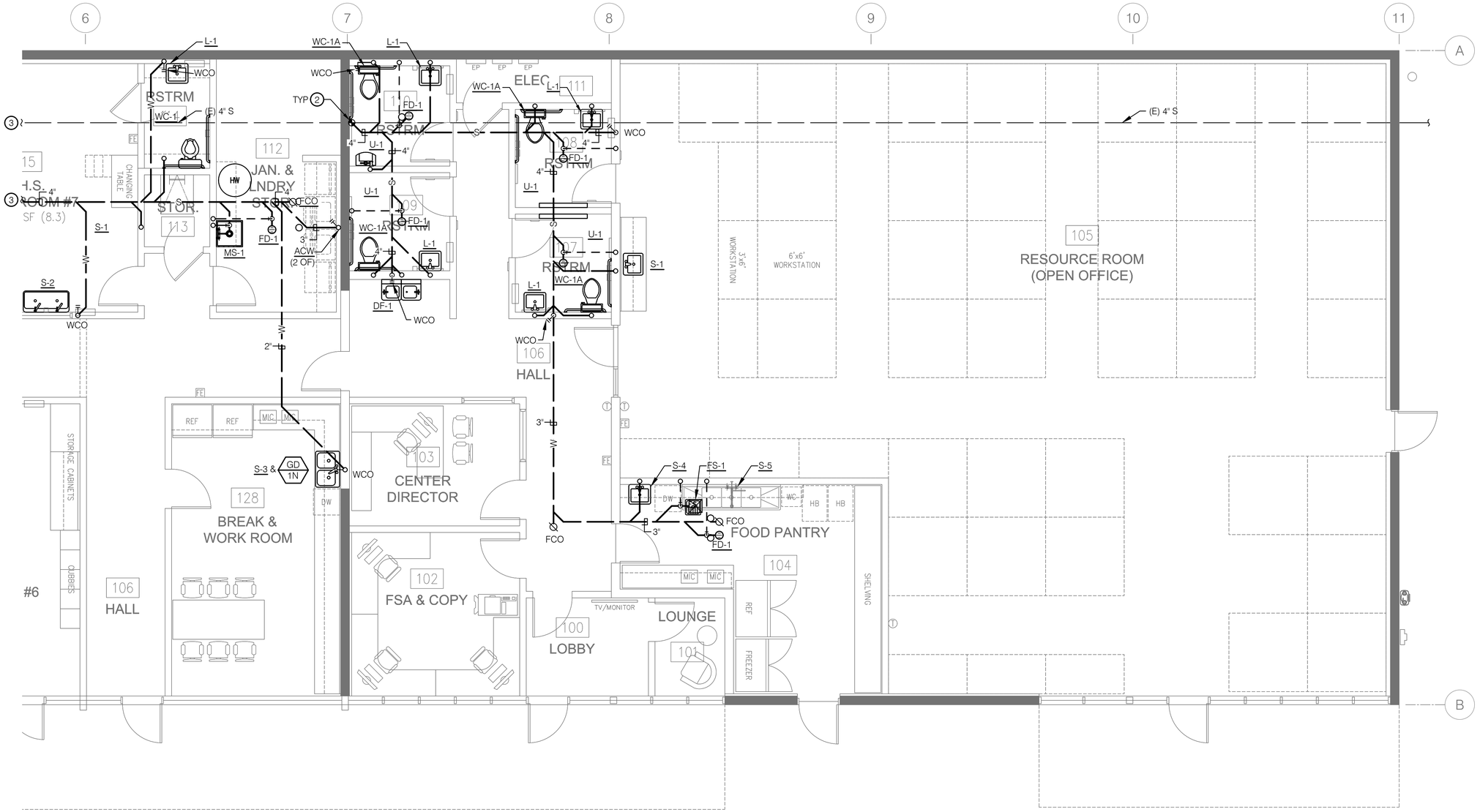
ISSUE	DATE
☐ PLANCHECK SUBMITTAL	26 MAR 2026
⚠ RECHECK DRAWINGS	22 JUNE 2026

MDC MARINO DESIGN CONSULTING INC.
2615 CAMINO DEL RIO S. SUITE 402
SAN DIEGO, CA 92108
PH: 619-550-2615
www.mdcmechanical.com

PARTIAL PLUMBING FLOOR PLAN (WEST) - SANITARY WASTE AND VENT PIPING NEW WORK

P201

SHEET OF 65



PARTIAL PLUMBING FLOOR PLAN (EAST) - UNDERGROUND SANITARY WASTE AND VENT PIPING

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

SHEET NOTES

1. EXISTING 4" SEWER PIPING BELOW GRADE TO REMAIN.
2. POC OF NEW SEWER PIPING TO EXISTING BELOW GRADE (CONTRACTOR TO VERIFY EXACT LOCATION IN FIELD).
3. SEE SHEET P201 FOR CONTINUATION.

GENERAL NOTES

1. CONTRACTOR SHALL VERIFY EXACT PIPE SIZES, LOCATIONS, INVERT ELEVATIONS, AND POC'S PRIOR TO START OF WORK.
2. SLOPE ALL WASTE AND SEWER PIPING AT 2% (TYP).
3. SLOPE ALL CONDENSATE DRAIN PIPING AT 1%.
4. REFER TO ARCHITECTURAL PLANS FOR EXACT PLACEMENT OF FLOOR DRAIN AND FLOOR CLEAN-OUT.

JENNIFER ROBINSON ARCHITECTS
8218 ROYAL GORGE DRIVE
SAN DIEGO, CA 92119
619.571.9114

ALL IDEAS, ARRANGEMENTS AND PLANS INDICATED OR REPRESENTED BY THIS DRAWING ARE OWNED BY, AND THE PROPERTY OF JENNIFER ROBINSON ARCHITECTS AND WERE CREATED, EVOLVED AND DEVELOPED FOR THE USE ON, AND IN CONNECTION WITH, THE SPECIFIED PROJECT. NONE OF SUCH IDEAS, DESIGNS, ARRANGEMENTS OR PLANS SHALL BE USED BY, OR DISCLOSED TO ANY PERSON, FIRM OR CORPORATION FOR ANY PURPOSE WHATSOEVER WITHOUT THE WRITTEN PERMISSION OF JENNIFER ROBINSON ARCHITECTS.

AKA HEADSTART, INC. D.C. DAY CARE
SITE & TENANT IMPROVEMENTS
698 W. MADISON AVENUE, EL CAJON, CA 92020

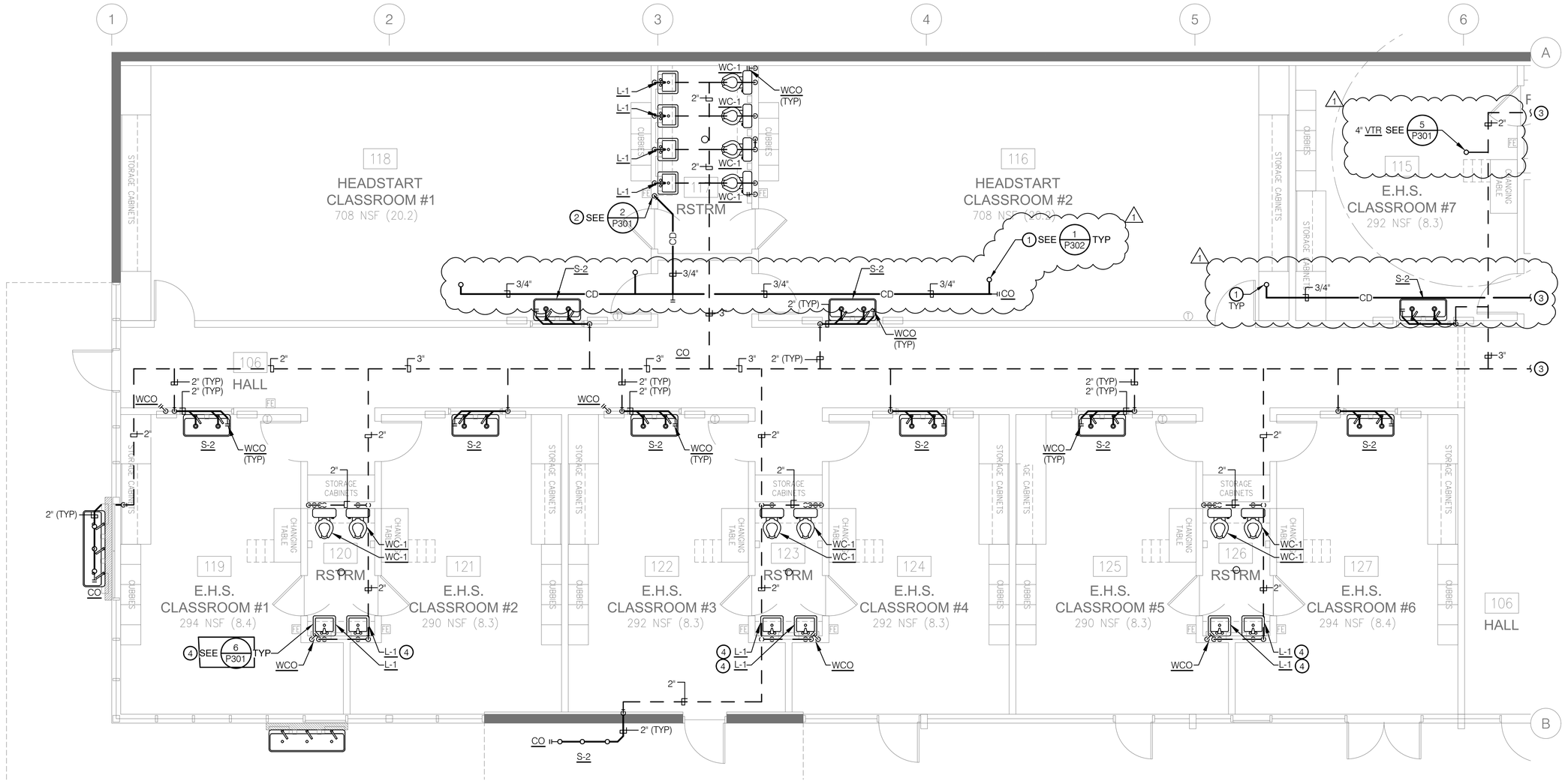
ISSUE	DATE
☐ PLANCHECK SUBMITTAL	26 MAR 2026
△ RECHECK DRAWINGS	22 JUNE 2026

MDC MARINO DESIGN CONSULTING INC.
2615 CAMINO DEL RIO S. SUITE 402
SAN DIEGO, CA 92108
PH: 619-550-2615
www.mdcmechanical.com

PARTIAL PLUMBING FLOOR PLAN (EAST) - SANITARY WASTE AND VENT PIPING NEW WORK

P202

SHEET OF 65



PARTIAL PLUMBING FLOOR PLAN (WEST) - ABOVEGROUND DRAIN, SANITARY WASTE AND VENT PIPING

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

SHEET NOTES

1. 3/4" CONDENSATE DRAIN UP THRU ROOF TO NEW HVAC UNIT ON ROOF.
2. 3/4" CONDENSATE DRAIN DOWN WITHIN WALL - CONNECT TO SINK P-TRAP TAIL PIECE.
3. SEE SHEET P202 FOR CONTINUATION.
4. PROVIDE ISLAND SINK VENTING.

GENERAL NOTES

1. CONTRACTOR SHALL VERIFY EXACT PIPE SIZES, LOCATIONS, INVERT ELEVATIONS, AND POC'S PRIOR TO START OF WORK.
2. SLOPE ALL WASTE AND SEWER PIPING AT 2% (TYP).
3. SLOPE ALL CONDENSATE DRAIN PIPING AT 1%.

JENNIFER ROBINSON ARCHITECTS

8218 ROYAL GORGE DRIVE
SAN DIEGO, CA 92119
619.571.9114

LICENSED ARCHITECT JENNIFER R. ROBINSON C30540 REN. 8-30-2027 STATE OF CALIFORNIA

ALL IDEAS, ARRANGEMENTS AND PLANS INDICATED OR REPRESENTED BY THIS DRAWING ARE OWNED BY, AND THE PROPERTY OF JENNIFER ROBINSON ARCHITECTS AND WERE CREATED, EVOLVED AND DEVELOPED FOR THE USE ON, AND IN CONNECTION WITH, THE SPECIFIED PROJECT. NONE OF SUCH IDEAS, DESIGNS, ARRANGEMENTS OR PLANS SHALL BE USED BY, OR DISCLOSED TO ANY PERSON, FIRM OR CORPORATION FOR ANY PURPOSE WHATSOEVER WITHOUT THE WRITTEN PERMISSION OF JENNIFER ROBINSON ARCHITECTS.

AKA HEADSTART, INC. DAY CARE SITE & TENANT IMPROVEMENTS

698 W. MADISON AVENUE, EL CAJON, CA 92020

ISSUE	DATE
☐ PLANCHECK SUBMITTAL	26 MAR 2026
⚠ RECHECK DRAWINGS	22 JUNE 2026

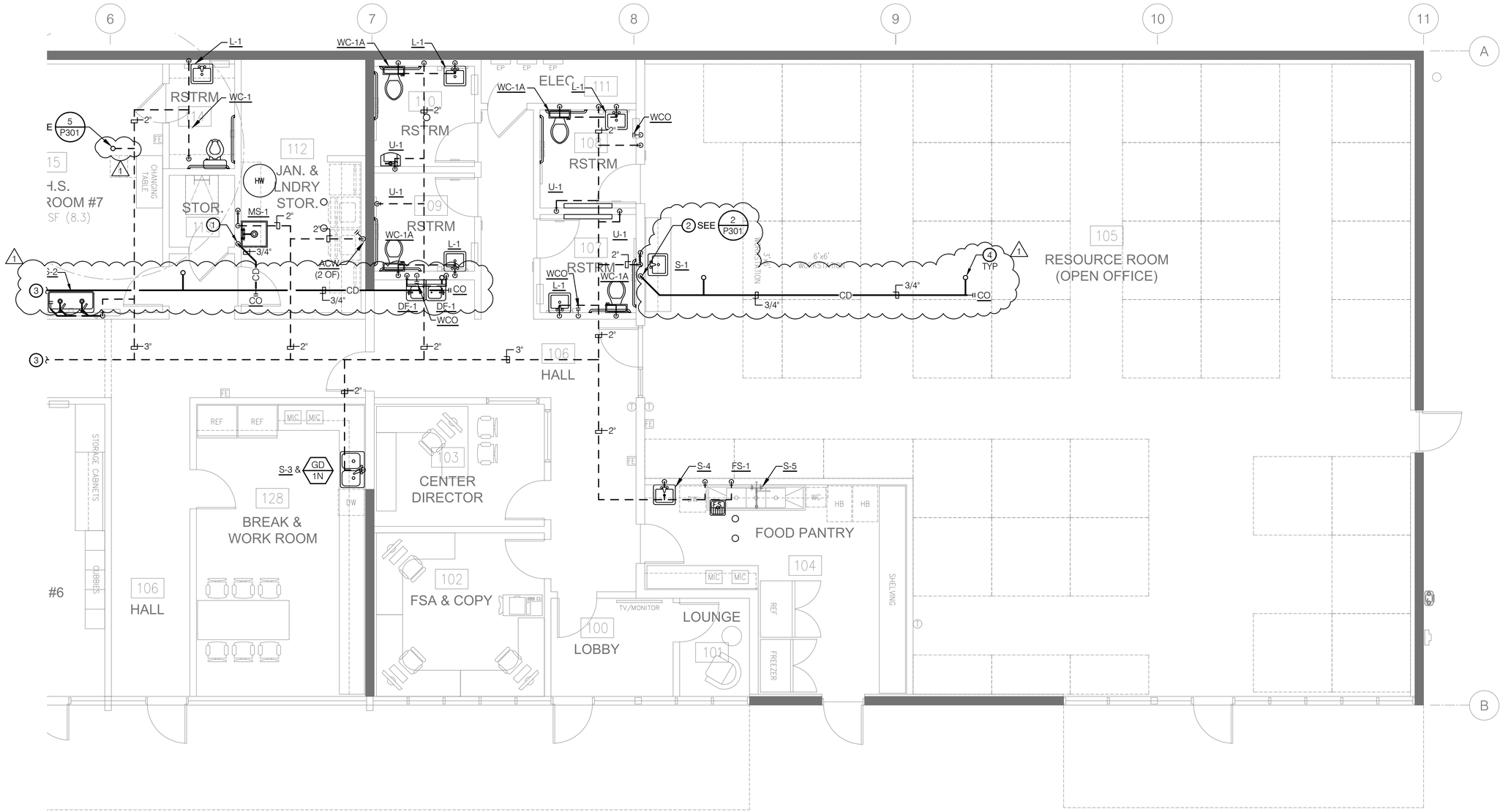
REGISTERED PROFESSIONAL ENGINEER TREVOR S. PROPHET M 42119 MECHANICAL STATE OF CALIFORNIA

MDC MARINO DESIGN CONSULTING INC.
2615 CAMINO DEL RIO S. SUITE 402
SAN DIEGO, CA 92108
PH: 619-550-2615
www.mdcmechanical.com

PARTIAL PLUMBING FLOOR PLAN (WEST) - SANITARY WASTE AND VENT PIPING NEW WORK

P203

SHEET OF 65



PARTIAL PLUMBING FLOOR PLAN (EAST) - ABOVEGROUND DRAIN, SANITARY WASTE AND VENT PIPING

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

SHEET NOTES

1. 3/4" CONDENSATE DRAIN DOWN WITHIN WALL - EXIT WALL VIA A CHROME ESCUTCHEON BEFORE DISCHARGING INTO MOP SINK.
2. 3/4" CONDENSATE DRAIN DOWN WITHIN WALL - CONNECT TO SINK P-TRAP TAIL PIECE.
3. SEE SHEET P201 FOR CONTINUATION.
4. 3/4" CONDENSATE DRAIN UP THRU ROOF TO NEW HVAC UNIT ON ROOF.

GENERAL NOTES

1. CONTRACTOR SHALL VERIFY EXACT PIPE SIZES, LOCATIONS, INVERT ELEVATIONS, AND POC'S PRIOR TO START OF WORK.
2. SLOPE ALL WASTE AND SEWER PIPING AT 2% (TYP).
3. SLOPE ALL CONDENSATE DRAIN PIPING AT 1%.

JENNIFER ROBINSON ARCHITECTS
8218 ROYAL GORGE DRIVE
SAN DIEGO, CA 92119
619.571.9114

LICENSED ARCHITECT JENNIFER R. ROBINSON C30540 REN. 6-30-2027 STATE OF CALIFORNIA

ALL IDEAS, ARRANGEMENTS AND PLANS INDICATED OR REPRESENTED BY THIS DRAWING ARE OWNED BY, AND THE PROPERTY OF JENNIFER ROBINSON ARCHITECTS AND WERE CREATED, EVOLVED AND DEVELOPED FOR THE USE ON, AND IN CONNECTION WITH, THE SPECIFIED PROJECT. NONE OF SUCH IDEAS, DESIGNS, ARRANGEMENTS OR PLANS SHALL BE USED BY, OR DISCLOSED TO ANY PERSON, FIRM OR CORPORATION FOR ANY PURPOSE WHATSOEVER WITHOUT THE WRITTEN PERMISSION OF JENNIFER ROBINSON ARCHITECTS.

AKA HEADSTART, INC. DAY CARE
SITE & TENANT IMPROVEMENTS
698 W. MADISON AVENUE, EL CAJON, CA 92020

ISSUE	DATE
☐ PLANCHECK SUBMITTAL	26 MAR 2026
⚠ RECHECK DRAWINGS	22 JUNE 2026

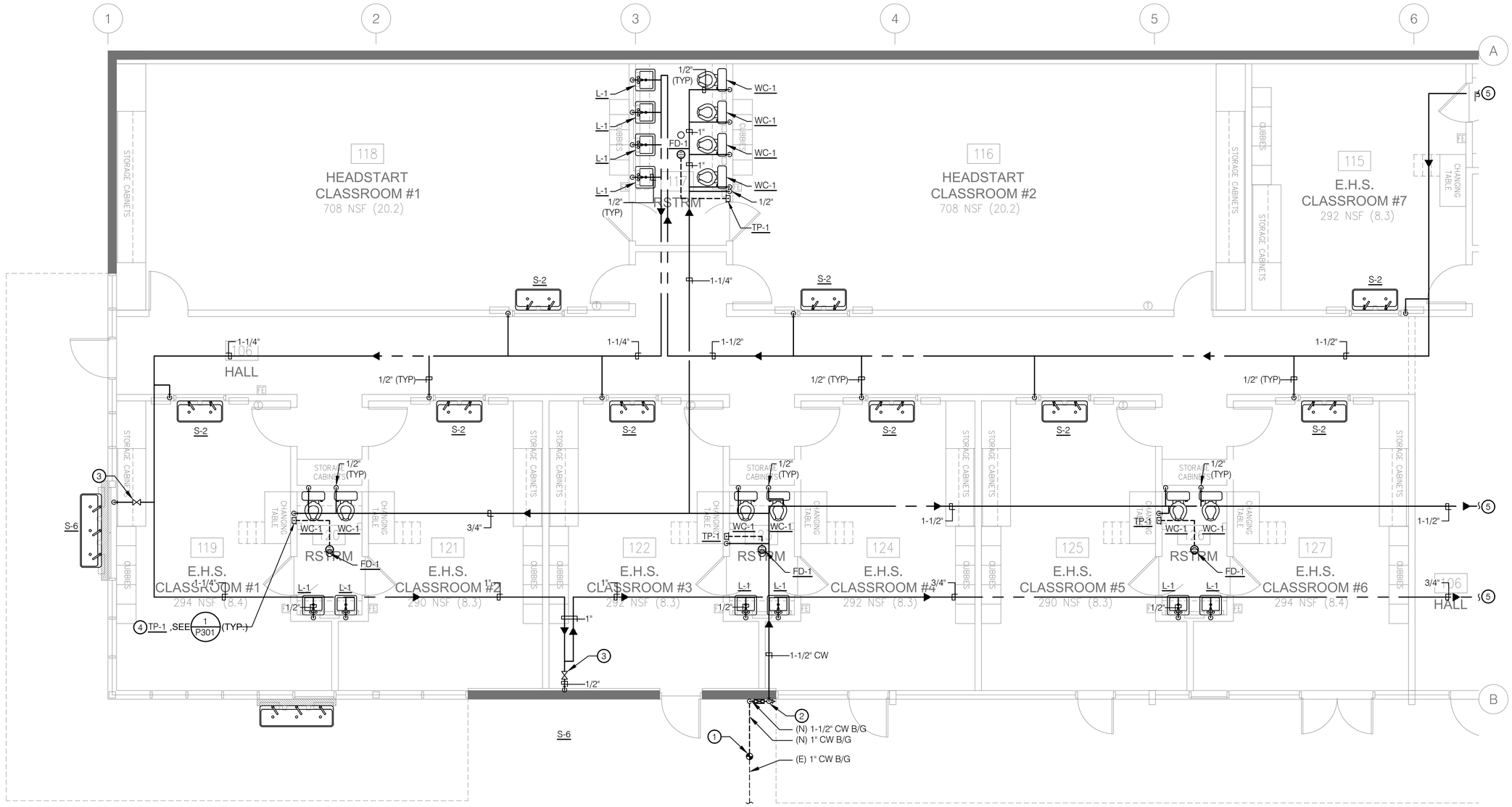
REGISTERED PROFESSIONAL ENGINEER TREVOR S. PROPHET M 42119 MECHANICAL STATE OF CALIFORNIA

MDC MARINO DESIGN CONSULTING INC.
2615 CAMINO DEL RIO S. SUITE 402
SAN DIEGO, CA 92108
PH: 619-550-2615
www.mdcmechanical.com

PARTIAL PLUMBING FLOOR PLAN (EAST) - SANITARY WASTE AND VENT PIPING NEW WORK

P204

SHEET OF 65



PARTIAL PLUMBING FLOOR PLAN (WEST) - DOMESTIC WATER PIPING

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

SHEET NOTES

1. POC OF NEW 3/4" CW PIPING TO EXISTING BELOW GRADE (CONTRACTOR TO VERIFY EXACT LOCATION IN FIELD).
2. NEW MAIN BUILDING SHUT-OFF VALVE, BACKFLOW PREVENTER AND DOMESTIC WATER PRESSURE REGULATOR, SEE DETAIL — SEE 8/P301
3. 3-PIECE BALL VALVE LOCATED IN RECESSED ENCLOSURE WITH ACCESS DOOR. PROVIDE EXTRA UNISTRUT SUPPORT ON PIPING NEAR VALVE IN ORDER TO ALLOW FOR REGULAR USE. VALVE SHOWN ON PLANS FOR CLARITY.
4. NEW AUTOMATIC TRAP PRIMER.
5. SEE SHEET P204 FOR CONTINUATION.

GENERAL NOTES

1. CONTRACTOR TO VERIFY EXACT PIPING SIZES, LOCATIONS, AND POC'S PRIOR TO START OF WORK.

JENNIFER ROBINSON ARCHITECTS
8218 ROYAL GORGE DRIVE
SAN DIEGO, CA 92119
619.571.9114

LICENSED ARCHITECT JENNIFER R. ROBINSON C30540 REN. 6-30-2027 STATE OF CALIFORNIA

ALL IDEAS, ARRANGEMENTS AND PLANS INDICATED OR REPRESENTED BY THIS DRAWING ARE OWNED BY, AND THE PROPERTY OF JENNIFER ROBINSON ARCHITECTS AND WERE CREATED, EVOLVED AND DEVELOPED FOR THE USE ON, AND IN CONNECTION WITH, THE SPECIFIED PROJECT. NONE OF SUCH IDEAS, DESIGNS, ARRANGEMENTS OR PLANS SHALL BE USED BY, OR DISCLOSED TO ANY PERSON, FIRM OR CORPORATION FOR ANY PURPOSE WHATSOEVER WITHOUT THE WRITTEN PERMISSION OF JENNIFER ROBINSON ARCHITECTS.

AKA HEADSTART, INC. DAY CARE SITE & TENANT IMPROVEMENTS

698 W. MADISON AVENUE, EL CAJON, CA 92020

ISSUE	DATE
☐ PLANCHECK SUBMITTAL	26 MAR 2026
△ RECHECK DRAWINGS	22 JUNE 2026

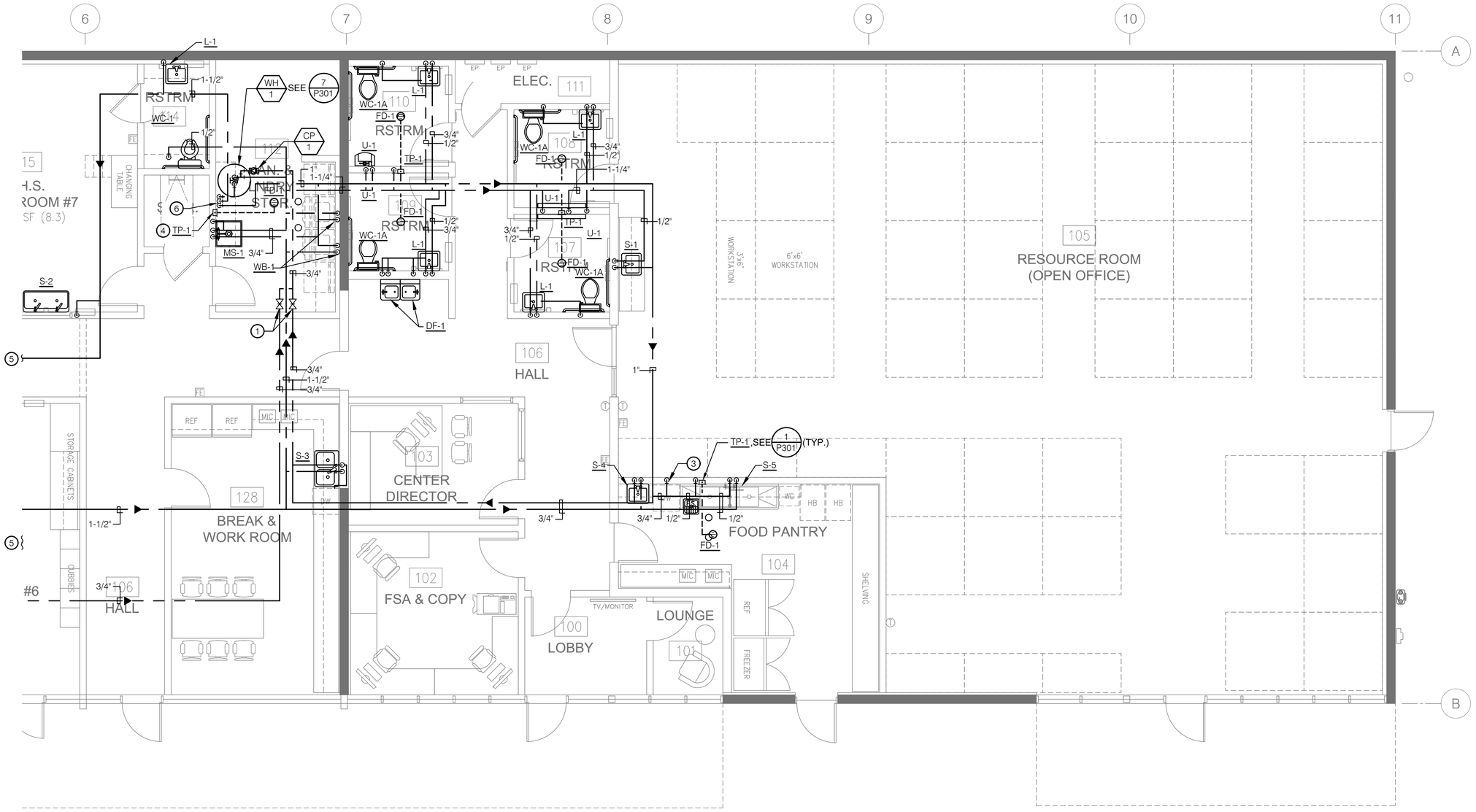
REGISTERED PROFESSIONAL ENGINEER TREVOR S. PROPST M 42119 MECHANICAL STATE OF CALIFORNIA

MDC MARINO DESIGN CONSULTING INC.
2615 CAMINO DEL RIO S. SUITE 402
SAN DIEGO, CA 92108
PH: 619-550-2615
www.mdcmechanical.com

PARTIAL PLUMBING FLOOR PLAN (WEST) - DOMESTIC WATER PIPING NEW WORK

P205

SHEET OF 65



PARTIAL PLUMBING FLOOR PLAN (EAST) - DOMESTIC WATER PIPING

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

SHEET NOTES

1. CALIBRATED DOMESTIC HOT WATER FLOW BALANCING VALVE.
2. AUTOMATIC TRAP PRIMER.
3. 1/2" HW DN WITHIN WALL TO DISHWASHER.
4. 1/2" HW WITHIN CABINETRY TO DISHWASHER.
5. SEE SHEET P203 FOR CONTINUATION.
6. LOCATION OF HW TEMPERING VALVES. PROVIDE A "TEPID" HW LOOP SET TO 100°F FOR JUNIOR PLUMBING FIXTURES AND A HW LOOP SET TO 120°F FOR ALL OTHER FIXTURES.

GENERAL NOTES

1. CONTRACTOR TO VERIFY EXACT PIPING SIZES, LOCATIONS, AND POC'S PRIOR TO START OF WORK.

JENNIFER ROBINSON ARCHITECTS

8218 ROYAL GORGE DRIVE
SAN DIEGO, CA 92119
619.571.9114

REGISTERED LICENSED ARCHITECT — JENNIFER R. ROBINSON — C30540 — REN. 6-30-2027 — STATE OF CALIFORNIA

ALL IDEAS, ARRANGEMENTS AND PLANS INDICATED OR REPRESENTED BY THIS DRAWING ARE OWNED BY, AND THE PROPERTY OF JENNIFER ROBINSON ARCHITECTS AND WERE CREATED, EVOLVED AND DEVELOPED FOR THE USE ON, AND IN CONNECTION WITH, THE SPECIFIED PROJECT. NONE OF SUCH IDEAS, DESIGNS, ARRANGEMENTS OR PLANS SHALL BE USED BY, OR DISCLOSED TO ANY PERSON, FIRM OR CORPORATION FOR ANY PURPOSE WHATSOEVER WITHOUT THE WRITTEN PERMISSION OF JENNIFER ROBINSON ARCHITECTS.

AKA HEADSTART, INC. D.C. DAY CARE
SITE & TENANT IMPROVEMENTS
698 W. MADISON AVENUE, EL CAJON, CA 92020

ISSUE	DATE
☐ PLANCHECK SUBMITTAL	26 MAR 2026
⚠ RECHECK DRAWINGS	22 JUNE 2026

REGISTERED PROFESSIONAL ENGINEER — TREVOR S. PROPHET — M 42119 — MECHANICAL — STATE OF CALIFORNIA

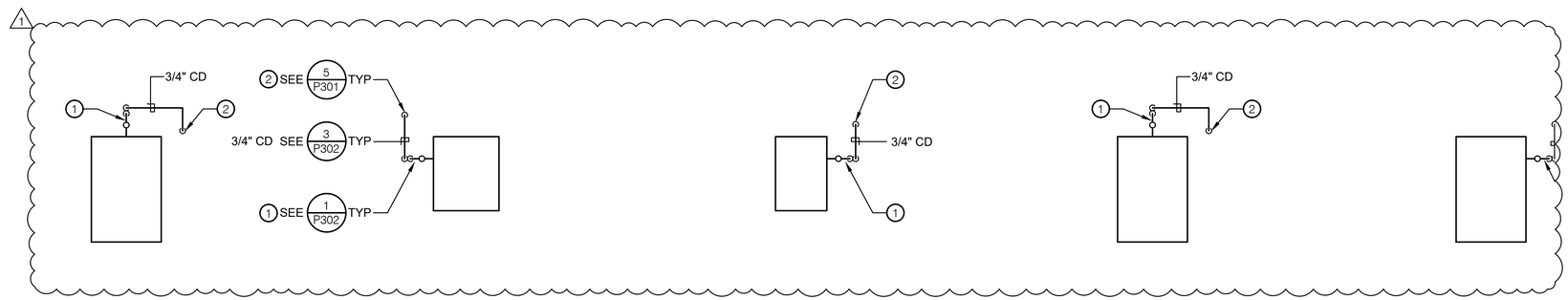
MDC MARINA DESIGN CONSULTING INC.

2615 CAMINO DEL RIO S. SUITE 402
SAN DIEGO, CA 92108
PH: 619-550-2615
www.mdcmechanical.com

PARTIAL PLUMBING FLOOR PLAN (EAST) - DOMESTIC WATER PIPING NEW WORK

P206

SHEET OF 65



PARTIAL PLUMBING ROOF PLAN (WEST) - NEW WORK

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

SHEET NOTES

1. TRAPPED AND VENTED CONDENSATE DRAIN PIPING ON ROOF.
2. CONDENSATE DRAIN PIPING DOWN THRU ROOF.

GENERAL NOTES

1. CONTRACTOR SHALL VERIFY EXACT CONNECTION TO EQUIPMENT, PIPE SIZES, LOCATIONS, INVERT ELEVATIONS, AND POC'S PRIOR TO START OF WORK.
2. SLOPE ALL CONDENSATE DRAIN PIPING AT 1%.

JENNIFER ROBINSON ARCHITECTS

8218 ROYAL GORGE DRIVE
SAN DIEGO, CA 92119
619.571.9114

LICENSED ARCHITECT
JENNIFER R. ROBINSON
C30540
REN. 6-30-2027
STATE OF CALIFORNIA

ALL IDEAS, ARRANGEMENTS AND PLANS INDICATED OR REPRESENTED BY THIS DRAWING ARE OWNED BY, AND THE PROPERTY OF JENNIFER ROBINSON ARCHITECTS AND WERE CREATED, EVOLVED AND DEVELOPED FOR THE USE ON, AND IN CONNECTION WITH, THE SPECIFIED PROJECT. NONE OF SUCH IDEAS, DESIGNS, ARRANGEMENTS OR PLANS SHALL BE USED BY, OR DISCLOSED TO ANY PERSON, FIRM OR CORPORATION FOR ANY PURPOSE WHATSOEVER WITHOUT THE WRITTEN PERMISSION OF JENNIFER ROBINSON ARCHITECTS.

AKA HEADSTART, INC. DAY CARE
SITE & TENANT IMPROVEMENTS
698 W. MADISON AVENUE, EL CAJON, CA 92020

REGISTERED PROFESSIONAL ENGINEER
TREVOR S. PROPHET
M 42119
MECHANICAL
STATE OF CALIFORNIA

MDC
MARINO DESIGN CONSULTING INC.

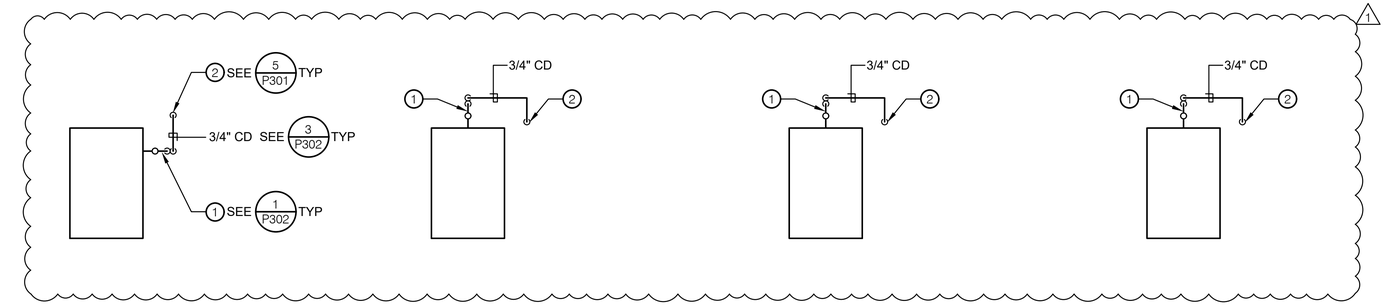
2615 CAMINO DEL RIO S. SUITE 402
SAN DIEGO, CA 92108
PH: 619-550-2615
www.mdcmechanical.com

ISSUE	DATE
☐ PLANCHECK SUBMITTAL	26 MAR 2026
⚠ RECHECK DRAWINGS	22 JUNE 2026

PARTIAL PLUMBING ROOF PLAN (WEST) - NEW WORK

P207

SHEET OF 65



PARTIAL PLUMBING ROOF PLAN (EAST) - NEW WORK

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

SHEET NOTES

1. TRAPPED AND VENTED CONDENSATE DRAIN PIPING ON ROOF.
2. CONDENSATE DRAIN PIPING DOWN THRU ROOF.

GENERAL NOTES

1. CONTRACTOR SHALL VERIFY EXACT CONNECTION TO EQUIPMENT, PIPE SIZES, LOCATIONS, INVERT ELEVATIONS, AND POC'S PRIOR TO START OF WORK.
2. SLOPE ALL CONDENSATE DRAIN PIPING AT 1%.

JENNIFER ROBINSON ARCHITECTS

8218 ROYAL GORGE DRIVE
SAN DIEGO, CA 92119
619.571.9114

LICENSED ARCHITECT
JENNIFER R. ROBINSON
C30540
REN. 6-30-2027
STATE OF CALIFORNIA

ALL IDEAS, ARRANGEMENTS AND PLANS INDICATED OR REPRESENTED BY THIS DRAWING ARE OWNED BY, AND THE PROPERTY OF JENNIFER ROBINSON ARCHITECTS AND WERE CREATED, EVOLVED AND DEVELOPED FOR THE USE ON, AND IN CONNECTION WITH, THE SPECIFIED PROJECT. NONE OF SUCH IDEAS, DESIGNS, ARRANGEMENTS OR PLANS SHALL BE USED BY, OR DISCLOSED TO ANY PERSON, FIRM OR CORPORATION FOR ANY PURPOSE WHATSOEVER WITHOUT THE WRITTEN PERMISSION OF JENNIFER ROBINSON ARCHITECTS.

AKA HEADSTART, INC. DAY CARE
SITE & TENANT IMPROVEMENTS
698 W. MADISON AVENUE, EL CAJON, CA 92020

ISSUE	DATE
☐ PLANCHECK SUBMITTAL	26 MAR 2026
⚠ RECHECK DRAWINGS	22 JUNE 2026

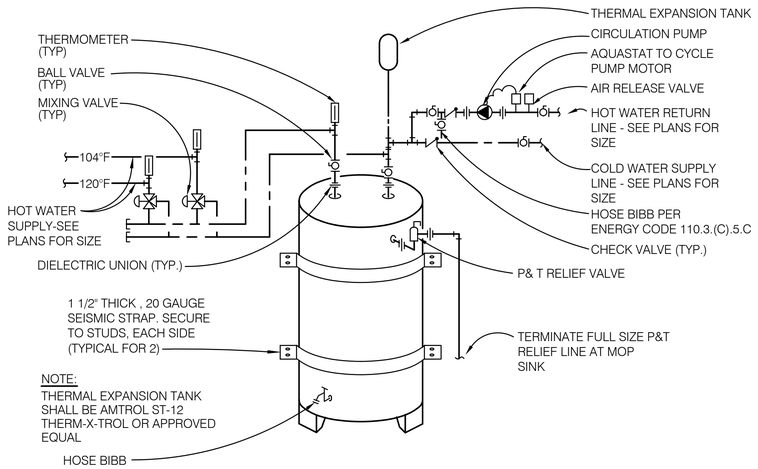
REGISTERED PROFESSIONAL ENGINEER
TREVOR S. PROPHET
M 42119
MECHANICAL
STATE OF CALIFORNIA

MDC MARINO DESIGN CONSULTING INC.
2615 CAMINO DEL RIO S. SUITE 402
SAN DIEGO, CA 92108
PH: 619-550-2615
www.mdcmechanical.com

PARTIAL PLUMBING ROOF PLAN (EAST) - NEW WORK

P208

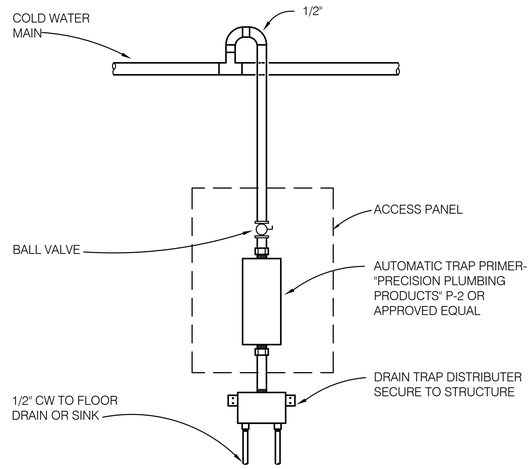
SHEET OF 65



ELECTRIC WATER HEATER DETAIL

NO SCALE

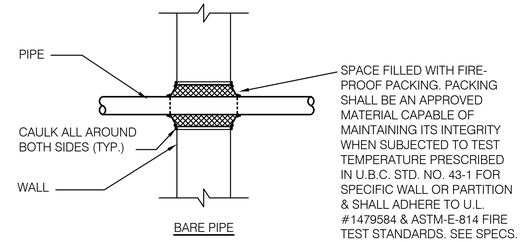
7 / P301



AUTOMATIC TRAP PRIMER

NO SCALE

4 / P301



PIPE PENETRATION THRU WALL DETAIL

NO SCALE

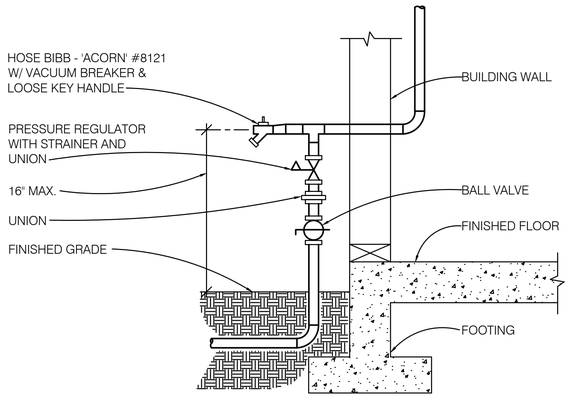
1 / P301

JENNIFER ROBINSON ARCHITECTS
8218 ROYAL GORGE DRIVE
SAN DIEGO, CA 92119
619.571.9114



ALL IDEAS, ARRANGEMENTS AND PLANS INDICATED OR REPRESENTED BY THIS DRAWING ARE OWNED BY, AND THE PROPERTY OF JENNIFER ROBINSON ARCHITECTS AND WERE CREATED, EVOLVED AND DEVELOPED FOR THE USE ON, AND IN CONNECTION WITH, THE SPECIFIED PROJECT. NONE OF SUCH IDEAS, DESIGNS, ARRANGEMENTS OR PLANS SHALL BE USED BY, OR DISCLOSED TO ANY PERSON, FIRM OR CORPORATION FOR ANY PURPOSE WHATSOEVER WITHOUT THE WRITTEN PERMISSION OF JENNIFER ROBINSON ARCHITECTS.

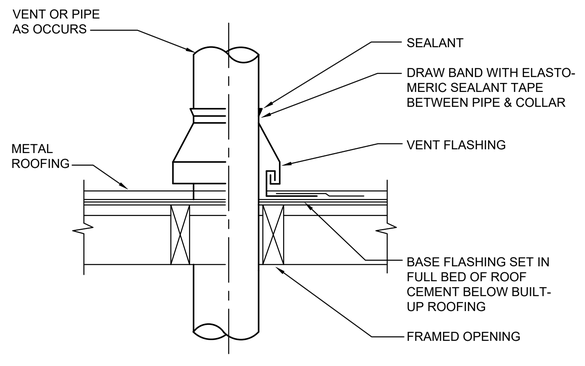
AKA HEADSTART, INC. D.C. DAY CARE
SITE & TENANT IMPROVEMENTS
698 W. MADISON AVENUE, EL CAJON, CA 92020



PRESSURE REGULATOR & BLDG. S.O.V.

NO SCALE

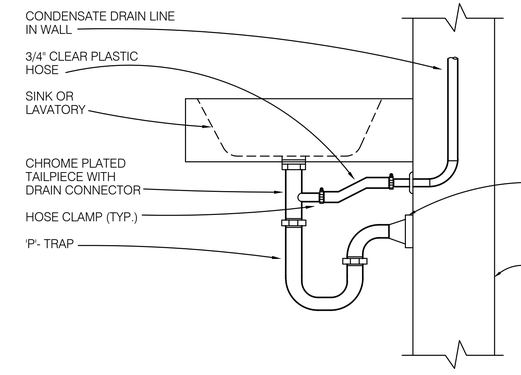
8 / P301



VENT OR PIPE THRU ROOF DETAIL

NO SCALE

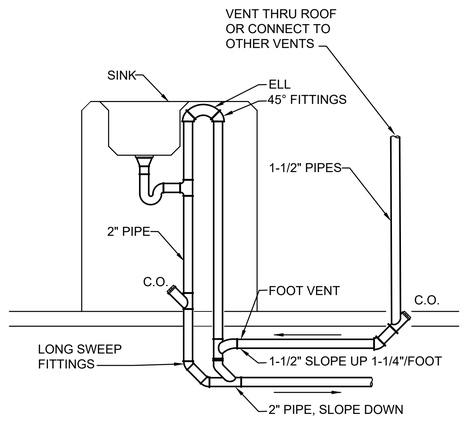
5 / P301



CONDENSATE DRAIN TO TRAP DETAIL

NO SCALE

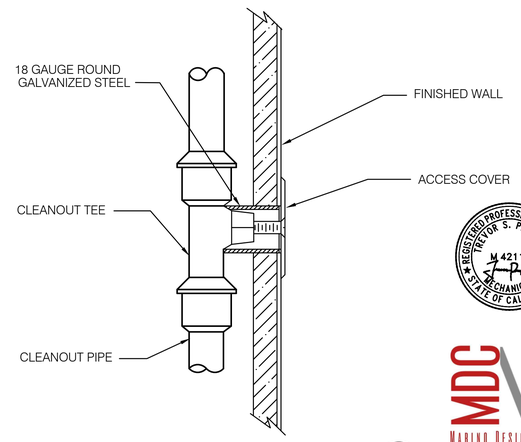
2 / P301



ISLAND SINK VENTING DETAIL

NO SCALE

6 / P301



WALL CLEANOUT DETAIL

NO SCALE

3 / P301

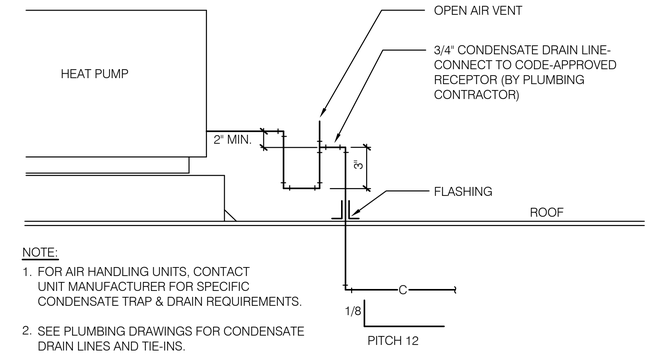
MDC MARINO DESIGN CONSULTING INC.
2615 CAMINO DEL RIO S. SUITE 402
SAN DIEGO, CA 92108
PH: 619-550-2615
www.mdcmechanical.com

ISSUE	DATE
☐ PLANCHECK SUBMITTAL	26 MAR 2026
⚠ RECHECK DRAWINGS	22 JUNE 2026

PLUMBING DETAILS

P301

SHEET OF 65



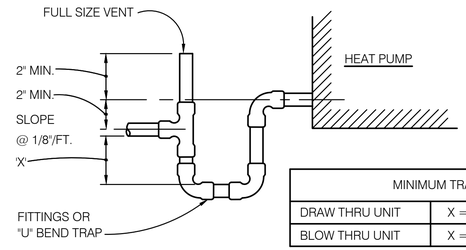
NOTE:

1. FOR AIR HANDLING UNITS, CONTACT UNIT MANUFACTURER FOR SPECIFIC CONDENSATE TRAP & DRAIN REQUIREMENTS.
2. SEE PLUMBING DRAWINGS FOR CONDENSATE DRAIN LINES AND TIE-INS.

CONDENSATE DRAIN TRAP DETAIL

NO SCALE

1 / P302

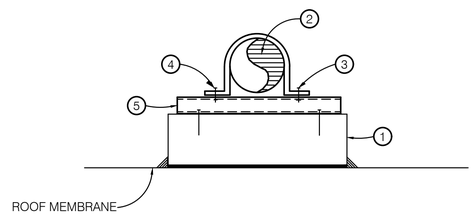


MINIMUM TRAP DEPTH	
DRAW THRU UNIT	X = (FAN T.S.P. ÷ 2) + 1"
BLOW THRU UNIT	X = FAN T.S.P. + 1"

CONDENSATE TRAP DETAIL

NO SCALE

2 / P302



1. 4"x4" REDWOOD SLEEPER SET IN ROOFING MASTIC
2. PIPE
3. 2-HOLE PIPE CLAMP
4. LAG BOLT (TYP)
5. UNISTRUT CHANNEL SECURED TO SLEEPER

PIPE SUPPORT DETAIL

NO SCALE

3 / P302

JENNIFER ROBINSON ARCHITECTS

8218 ROYAL GORGE DRIVE
SAN DIEGO, CA 92119
619.571.9114

LICENSED ARCHITECT — JENNIFER R. ROBINSON — C30540 — REN. 6-30-2027 — STATE OF CALIFORNIA

ALL IDEAS, ARRANGEMENTS AND PLANS INDICATED OR REPRESENTED BY THIS DRAWING ARE OWNED BY, AND THE PROPERTY OF JENNIFER ROBINSON ARCHITECTS AND WERE CREATED, EVOLVED AND DEVELOPED FOR THE USE ON, AND IN CONNECTION WITH, THE SPECIFIED PROJECT. NONE OF SUCH IDEAS, DESIGNS, ARRANGEMENTS OR PLANS SHALL BE USED BY, OR DISCLOSED TO ANY PERSON, FIRM OR CORPORATION FOR ANY PURPOSE WHATSOEVER WITHOUT THE WRITTEN PERMISSION OF JENNIFER ROBINSON ARCHITECTS.

AKA HEADSTART, INC. DAY CARE
SITE & TENANT IMPROVEMENTS
698 W. MADISON AVENUE, EL CAJON, CA 92020

ISSUE	DATE
☐ PLANCHECK SUBMITTAL	26 MAR 2026
⚠ RECHECK DRAWINGS	22 JUNE 2026

REGISTERED PROFESSIONAL ENGINEER — TREVOR S. PROPHET — M 42119 — MECHANICAL — STATE OF CALIFORNIA

MDC MARINO DESIGN CONSULTING INC.
2615 CAMINO DEL RIO S. SUITE 402
SAN DIEGO, CA 92108
PH: 619-550-2615
www.mdcmechanical.com

PLUMBING DETAILS

P302

SHEET OF 65

SECTION 22500

A. PIPE HANGERS

1. HOLD HORIZONTAL, PIPE RUNS FIRMLY IN PLACE USING APPROVED STEEL AND IRON HANGERS, SUPPORTS, AND/OR PIPE RESTS, UNLESS OTHERWISE INDICATED. SUSPEND HANGER RODS FROM CONCRETE INSERTS OR FROM APPROVED BRACKETS, CLAMPS OR CLIPS. HANG PIPES INDIVIDUALLY, OR IN GROUPS IF SUPPORTING STRUCTURE IS ADEQUATE TO SUPPORT WEIGHT OF PIPING AND FLUID. EXCEPT FOR BURIED PIPING, HANG AND SUPPORT PIPE RUNS SO THEY MAY EXPAND OR CONTRACT FREELY WITHOUT STRAIN TO PIPE OR EQUIPMENT.

1.1. HORIZONTAL STEEL PIPING: PROVIDE HANGERS OR SUPPORTS EVERY 10 FEET EXCEPT EVERY 8 FEET FOR PIPING 1-1/4 INCH AND SMALLER.

1.2. HORIZONTAL SOIL AND WASTE PIPING: PROVIDE HANGERS OR SUPPORTS AT EACH SIDE OF FITTING. PROVIDE ANTI-SEPARATION OF BRACING AT EACH 90 DEGREE CHANGE OF DIRECTION.

1.3. VERTICAL PIPING: SUPPORT AT FLOOR WITH IRON PIPE CLAMPS. PROVIDE PLASTIC COATED TYPE FOR COPPER PIPING.

1.4. BRANCHES: PROVIDE SEPARATE HANGERS OR SUPPORTS FOR BRANCH LINES 6 FEET OR MORE IN LENGTH.

2. SOUND ELECTROLYSIS ISOLATORS: PROVIDE AT ALL HANGERS AND SUPPORTS FOR HOT AND COLD DOMESTIC WATER LINES. SECURELY ATTACH PIPE TO WALLS, STUDS, ETC. ALL SUCH PIPING ISOLATED FROM STRUCTURE WITH SEMCO TRISOLATORS.

3. HANGERS SHALL BE COMPLETE WITH THREADED STEEL RODS AND ISOLATORS AS REQUIRED AND HERE-IN-AFTER SPECIFIED.

3.1. 2 INCH AND SMALLER: SUPER STRUT C-727-F.

3.2. CONCRETE INSERTS: SUPER STRUT 452.

3.3. RISER CLAMPS FOR COPPER PIPING: SUPER STRUT CT-720-P PLASTIC COATED.

3.4. RISER CLAMPS FOR OTHER PIPING: SUPER STRUT C-720.

4. HANGER RODS CONFORM TO THE FOLLOWING TABLE:

4.1. PIPE SIZE 2 INCH AND SMALLER . . . . 3/8 INCH RODS.

4.2. PIPE SIZE 2-1/2 INCH AND 3 INCH . . . . 1/2 INCH RODS.

4.3. PIPE SIZE 4 INCH AND LARGER . . . . 5/8 INCH RODS.

B. ROOF FLASHING

1. SANITARY VENT FLASHINGS:
SEMCO 1100-3 OR 1100-5, WITH ONE PIECE LEAD FLASHING AND COUNTERFLASHING SLEEVE.

2. OTHER PIPE THROUGH ROOF FLASHING:
SEMCO 1100-2 OR 1100-4, ONE PIECE 4 LB. LEAD FLASHING AND COUNTERFLASHING SLEEVE.

C. PIPE SLEEVES

1. PROVIDE A DRAWING FOR THE STRUCTURAL CONTRACTOR SHOWING AND DIMENSIONING PIPE PENETRATIONS THROUGH CONCRETE FLOORS, INCLUDING PARKING CEILING. LOCATE AND SET PIPE PENETRATION SLEEVES IN SLAB PRIOR TO POURING.

2. AT CONCRETE WALLS OR FLOORS, ADJUST-TO-CRETE, PARAMOUNT, HOLE-OUT OR SPERZEL CRETESLEEVE. FLOOR SLEEVES SHALL EXTEND TO TOP OF CONCRETE CURBS FOR PIPING. RISING THROUGH FLOORS. WALL SLEEVES SHALL BE FLUSHED WITH FINISHED SURFACE. SLEEVES SHALL BE SIZED TO ALLOW 1/2" CLEARANCE AROUND PIPE INSULATION. INSULATION AND COVERING SHALL BE CONTINUOUS THROUGH WALL AND FLOOR SLEEVES.

D. CLEANOUTS
IRON BODY WITH EXTRA-HEAVY BRONZE PLUGS SCREWED INTO CAULKING FERRULES; FOR STEEL PIPE, EXTRA. WHERE CLEANOUTS OCCUR IN FINISHED INTERIOR WALLS, PROVIDE ACCESS PANELS, PLATES, AND FRAMES FOR FLUSH MOUNTING. EXPOSED PARTS OF FLOOR CLEANOUTS SHALL HAVE ADJUSTABLE TOP. ALL CLEANOUTS AND CLEANOUT PLUGS SHALL BE ACCESSIBLE. CLEANOUTS SHALL BE THE FOLLOWING:

1.08 EXISTING CONDITIONS

1. INTERIOR:
A. TILE WALL, PLASTERED AND/OR DRYWALL TYPE FOR CAST-IRON PIPE:
ZURN Z-1441 WITH STAINLESS STEEL ACCESS COVER OR APPROVED EQUAL.
B. FLOOR LEVEL TYPE IN FINISHED AREAS: ZURN Z-1400-ZB, WITH POLISHED BRONZE TOP OR APPROVED EQUAL.
C. FLOOR LEVEL TYPE IN FINISHED AREAS WITH WATERPROOFING MEMBRANE:
ZURN Z-1400-KC-ZB, WITH POLISHED BRONZE TOP OR APPROVED EQUAL.
D. GRADE LEVEL TYPE OUTSIDE BUILDING: ZURN Z-1406 OR APPROVED EQUAL.

E. PRESSURE TEMPERATURE RELIEF VALVE

1. PROVIDE WATER HEATER WITH ASME RATED PRESSURE/TEMPERATURE RELIEF VALVE SET TO RELIEVE AT 125 PSI PRESSURE AND AT 188 TO 208 °F TEMPERATURE RANGE.

F. INSULATION

1. ALL PIPE INSULATION SHALL COMPLY WITH THE STATE OF CALIFORNIA ENERGY CONSERVATION STANDARDS. INSULATION THICKNESSES IN THE RANGE OF R-4.0 TO R-4.6 PER INCH THICKNESS ON A FLAT SURFACE AT A MEAN TEMPERATURE OF 75°F. THICKNESSES INDICATED ARE MINIMUM AND SHALL BE INCREASED PROPORTIONATELY FOR MATERIALS HAVING R VALUES LESS THAN 4.00 PER INCH OF THICKNESS OR MAY BE REDUCED FOR MATERIALS HAVING R VALUES GREATER THAN 4.6 PER INCH THICKNESS. INSTALL PIPE INSULATION AFTER PIPING IS INSTALLED, TESTED AND APPROVED AND IS IN CLEAN, DRY CONDITION. FIRMLY BUTT INSULATION JOINTS.

2. FOR HOT WATER PIPING INSULATION REQUIREMENTS, SEE PIPE INSULATION SCHEDULE.

G. PLUMBING FIXTURES

1. GENERAL: PLUMBING FIXTURES, TRIM AND EXPOSED SUPPLIES AND WASTES SHALL BE BRASS WITH POLISHED CHROME PLATED FINISH. PROVIDE INDIVIDUAL LOOSE KEY STOPS OR, IF SO SPECIFIED, SCREW DRIVER STOPS FOR SUPPLIES AND, UNLESS INTEGRAL WITH VALVES OR FAUCETS, MOUNT UNDER FIXTURE. SEPARATELY TRAP ALL WASTES. PROVIDE EXPOSED SUPPLIES AND WASTES TO WALL WITH POLISHED CHROME PLATED CAST BRASS WALL ESCUTCHEONS.

2. FLOOR MOUNTED WATER CLOSETS: MAKE JOINTS PERMANENTLY GAS AND WATER TIGHT.

3. GENERAL: PLUMBING FIXTURES, TRIM AND EXPOSED SUPPLIES AND WASTES SHALL BE BRASS WITH POLISHED CHROME PLATED FINISH. PROVIDE INDIVIDUAL LOOSE KEY STOPS.

4. FIXTURES, TRIM AND ACCESSORIES: AS INDICATED ON THE DRAWINGS.

PART 3.00 - EXECUTION

3.01 INSTALLATION

A. THE WORD "PIPING" IN THIS PARAGRAPH MEANS PIPE, FITTINGS, NIPPLES, VALVES AND ACCESSORIES PERTINENT TO MAINS AND CONNECTIONS THROUGHOUT THE WORK.

B. THE CONTRACTOR SHALL BE PROMPT IN INSTALLING ALL PIPING AFTER EXCAVATION OR CUTTING FOR SAME, SO AS TO KEEP ALL EXCAVATIONS FOR THIS WORK OPEN AS SHORT A TIME AS POSSIBLE. NO PIPING, HOWEVER, SHALL BE PERMANENTLY CLOSED UP, FURRED IN OR COVERED BEFORE INSPECTION AND APPROVAL OF SAME BY ARCHITECT OR HIS REPRESENTATIVE.

C. COVER OR PLUG ALL OPENINGS IN PIPES, FITTINGS, APPARATUS OR EQUIPMENT AT THE END OF EACH WORK DAY. ALL WATER PIPING SHALL BE GUARDED AND VALVED TO PROVIDE FOR DRAINAGE AND CONTROL OF THE SYSTEM. NO SOIL, WASTE OR WATER PIPING SHALL BE INSTALLED SO AS TO CAUSE UNUSUAL NOISE FROM FLOW OF WATER UNDER NORMAL CONDITIONS.

D. ALL PIPING, EXCEPT AS SHOWN OTHERWISE ON PLANS OR AS INSTRUCTED OTHERWISE BY THE ARCHITECT, SHALL BE RUN CONCEALED IN FURRED WALLS, PARTITIONS, FURRED CEILINGS, ETC. WHERE PIPING IS EXPOSED, IT SHALL BE RUN ADJACENT TO WALLS OR PARALLEL TO CONSTRUCTION IN NEAT AND ORDERLY FASHION AS DIRECTED BY THE ARCHITECT.

E. EACH PIECE OF PIPE AND EACH FITTING SHALL BE INSPECTED INSIDE AND OUTSIDE TO SEE THAT THERE ARE NO DEFECTS OR OBSTRUCTIONS WITHIN SAME; ALL STEEL PIPES SHALL BE THOROUGHLY END-REAMED AND ALL BURRS SHALL BE REMOVED. JOINTS IN SCREWED PIPE SHALL BE MADE UP WITH AN APPROVED PIPE JOINT COMPOUND APPLIED TO MAKE MALE THREAD ONLY WITH NOT MORE THAN TWO THREADS LEFT EXPOSED.

F. NO BUSHINGS OR CLOSE NIPPLES SHALL BE USED, REDUCING FITTINGS AND SHOULDER NIPPLES SHALL BE USED IN ALL CASES.

G. COPPER TUBING SHALL BE CUT SQUARE AND ENDS SHALL BE REAMED TO FULL SIZE OF TUBING WITH ALL BURRS REMOVED. TUBING ENDS AND FITTINGS SOCKETS SHALL BE BURNISHED WITH EMERY CLOTH OR WIRE BRUSH BEFORE A UNIFORM COAT OF NON-CORROSIVE TYPE SOLDERING FLUX IS APPLIED. THE JOINT SHALL BE MADE PROMPTLY AND SURPLUS SOLDER AND FLUX SHALL BE WIPED CLEAN.

H. ALL PIPING SHALL BE ACCURATELY CUT TO LENGTH. NO PIPING SHALL BE FORCED OR SPRUNG INTO PLACE. ALL OFF-SETS SHALL BE MADE WITH FITTINGS AND BENDING OF PIPES SHALL NOT BE ALLOWED.

I. ALL PIPING SHALL BE ISOLATED FROM HANGERS BY USING HAIR FELT, 1/4" THICK, BETWEEN HANGERS AND/OR PLASTIC TWO-HOLD PIPE CLAMPS, PIPE INSULATORS AND SUSPENSION CLAMPS.

J. SET ALL DRAIN GRATES PARALLEL TO WALLS.

K. SANITARY SYSTEM: INSTALL ALL SOIL, WASTE AND VENT PIPING FOR ALL FIXTURES AND OUTLETS AS SHOWN ON DRAWINGS. PIPING SHALL BE SUPPORTED AND STRAPPED IN AN APPROVED MANNER. SUPPORTS ON SANITARY PIPING IN AND UNDER THE BUILDING SHALL RUN TO A UNIFORM GRADE. CONTRACTOR SHALL VERIFY THE POINT OF CONNECTION AS SHOWN ON DRAWINGS REGARDING INVERT ELEVATION AND LOCATION BEFORE STARTING WORK. WASTE LINES SHALL NOT PENETRATE SHEAR WALL TOP AND BOTTOM PLATES.

L. CLEANOUTS SHALL BE INSTALLED WHERE SHOWN AND REQUIRED, SHALL BE ACCESSIBLE, AND WHERE POSSIBLE SHALL BE EXTENDED TO OUTSIDE WALL, AND SHALL BE BROUGHT TO GRADE ON FLOOR SURFACE WITH "Y" 1/8 BEND. WASTE AND SOIL LINES, IN, UNDER, AND EXTERIOR TO BUILDINGS SHALL BE PROVIDED WITH CLEANOUTS AT ALL BENDS TOTALING MORE THAN 45 DEGREES AT UPPER TERMINALS, AT CHANGES IN PIPE SIZES AND NOT OVER 100 FEET APART IN ANY LINEAL RUN OF PIPING.

M. CLEANOUTS IN FLOOR ON GRADE, CONCRETE AREAS SHALL SET FLUSH WITH FINISHED FLOOR. CLEANOUT PLUGS SHALL BE LIBERALLY LUBRICATED WITH GRAPHITE, TURNED TIGHT AND BACKED OFF SLIGHTLY. CLEANOUTS LOCATED IN AREAS OF HEAVY TRAFFIC OR FORKLIFT USE SHALL BE EXTRA HEAVY DUTY.

N. WATER SYSTEM: EXTEND WATER SERVICES TO ALL FIXTURES, HOSE BIBBS, ETC., AS SHOWN ON DRAWINGS. ALL BRANCHES TO FIXTURES SHALL BE VALVED. SINGLE FIXTURE LINES SHALL BE VALVED. WHERE SUPPLIES ARE CONCEALED, OR WHERE INDICATED, LOOSE-KEY STOPS SHALL BE INSTALLED. DROP EAR FITTINGS WITH RED BRASS NIPPLES SHALL BE PROVIDED AT ALL OUTLETS.

8. PIPING IN GENERAL SHALL BE RUN AS SHOWN ON DRAWINGS WITH EXACT LOCATION AS DESIGNATED BY ARCHITECT OR HIS AUTHORIZED REPRESENTATIVES.

9. LINES SHALL BE INSTALLED IN A SEPARATE TRENCH EXCEPT AS DETAILED ON DRAWINGS. LINES CROSSING OTHER SERVICES SHALL HAVE A MINIMUM SEPARTION OF 12" VERTICALLY. GENERALLY THE WATER LINE WILL BE OFFSET OVER THE SANITARY WHEN THEY ARE LESS THAN 36" BELOW FINISH GRADE.

10. COPPER LINES SHALL BE ISOLATED FROM ALL DISSIMILAR METAL AND EQUIPMENT WITH DIELECTRIC COUPLINGS. DIELETRIC COUPLINGS SHALL BE USED FOR ALL CONNECTIONS BETWEEN PIPE OR TUBING AND ALL HOT WATER EQUIPMENT BOTH IN INLETS AND OUTLETS.

O. HOLD HORIZONTAL PIPE RUNS FIRMLY IN PLACE USING APPROVED STEEL AND IRON HANGERS, SUPPORTS, AND/OR PIPE RESTS, UNLESS OTHERWISE INDICATED. SUSPEND HANGER RODS FORM CONCRETE INSERTS OR FROM APPROVED BRACKETS, CLAMPS OR CLIPS. HANG PIPES INDIVIDUALLY OR IN GROUPS IF SUPPORTING STRUCTURE IS ADEQUATE TO SUPPORT WEIGHT OF PIPING AND FLUID. EXCEPT FOR BURIED PIPING, HANG OR SUPPORT PIPE RUNS SO THAT THEY MAY EXPAND OR CONTRACT FREELY WITHOUT STRAIN TO PIPE OR EQUIPMENT.

1. ALL WATER PIPING SHALL BE EQUIPPED WITH SEMCO-TRISOLATOR OR EQUAL AT EACH PIPE HANGER AND SUPPORT OR WHEREVER PIPING CONTACTS THE STRUCTURE.

2. IN ADDITION TO ABOVE HANGERS, PIPING SHALL BE SUPPORTED AT EACH CHANGE OF DIRECTION, AT ENDS OF BRANCHES, AT BASE AND TOP OF RISERS AND WHEREVER NECESSARY TO PREVENT SAGS, BENDING OR VIBRATION.

P. HANGERS: PIPING IN GENERAL SHALL BE SUPPORTED WITH 3/8" SOCKET ANF RODS, SUSPENDED FROM 1/2" X 2" X 2" ANGLE CLIPS 3-1/2" LONG SECURED TO STRUCTURE WITH NOT LESS THAN 2 NO. 6 DRIVE SCREWS, 2" LONG. HANGERS SHALL BE GRINNELL FIGURE 115 SPLIT RING FEE & MASON NO. 215 OR EQUAL WITH TURNBUCKLE ADJUSTED FOR THREADED ROD. PROVIDE LATERAL SWAY BRACING FOR EACH THIRD HANGER ROD.

1. ALL WATER PIPING SHALL BE EQUIPPED WITH SEMCO-TRISOLATOR OR EQUAL AT EACH PIPE HANGER AND SUPPORT OR WHEREVER PIPING CONTACTS THE STRUCTURE.

2. PIPING PARTITIONS SHALL BE STRAPPED IN AN APPROVED MANNER WITH 2 HOLE CLAMPS. THE USE OF PLUMBERS TAPE SHALL NOT BE PERMITTED.

3. IN ADDITION TO ABOVE HANGERS, PIPING SHALL BE SUPPORTED AT EACH CHANGE OF DIRECTION, AT ENDS OF BRANCHES, AT BASE AND TOP OF RISERS AND WHEREVER NECESSARY TO PREVENT SAGS, BENDING OR VIBRATION.

Q. ESCUTCHEONS: PROVIDE CHROMIUM PLATED BRASS ESCUTCHEONS AT ALL LOCATIONS WHERE PIPE PASSES THROUGH WALLS, FLOORS AND CEILINGS IN FINISHED AREAS. PROVIDE IRON ESCUTCHEONS IN UNFINISHED AREAS.

3.02 HAZARDOUS MATERIALS

A. THE OWNERS REPRESENTATIVE SHALL BE RESPONSIBLE TO IDENTIFY ALL ASBESTOS MATERIALS IN EACH OF THE WORK AREAS PRIOR TO THE COMMENCEMENT OF THE INSTALLATION WORK.

B. IN THE EVENT THAT THE CONTRACTOR ENCOUNTERS ANY ADDITIONAL MATERIALS ON THE SITE, THAT HE HAS REASON TO BELIEVE TO BE ASBESTOS, POLYCHLORINATED BIPHENYL (PCB), OR OTHER HAZARDOUS MATERIALS, WHICH HAVE NOT BEEN RENDERED HARMLESS, THE CONTRACTOR SHALL IMMEDIATELY STOP WORK IN THE AREA AFFECTED, AND REPORT THE CONDITION TO OWNER, AND PROJECT ENGINEER IN WRITING.

C. THE WORK IN THE AFFECTED AREA SHALL NOT BE RESUMED THEREAFTER, UNTIL THE MATERIALS HAVE BEEN RENDERED HARMLESS AND WRITTEN AGREEMENT IS MADE BETWEEN THE CONTRACTOR AND THE OWNER.

3.03 STERILIZATION

A. CLEAN AND STERILIZE WATER SUPPLY AND DISTRIBUTION SYSTEM AS REQUIRED BY CODE. PROVIDE CERTIFICATE TO ARCHITECT.

3.04 FIELD QUALITY CONTROL & TESTS

A. PERFORM TESTS TO ARCHITECTS SATISFACTION. MAKE TESTS IN PRESENCE OF ARCHITECT AND AT A TIME SUITABLE TO HIM IF REQUESTED. FURNISH NECESSARY LABOR AND EQUIPMENT AND BEAR COSTS FOR TESTING, COST OF REPLACING AND/OR REPAIRING DAMAGE RESULTING THEREFROM SHALL BE BORNE BY THIS CONTRACTOR. SHOULD THIS CONTRACTOR REFUSE OR NEGLECT TO MAKE TESTS NECESSARY TO SATISFY THE ARCHITECT THAT REQUIREMENTS OF SPECIFICATIONS AND DRAWINGS ARE MET, SUCH TESTS MAY BE MADE BY AN INDEPENDENT TESTING COMPANY AND THIS CONTRACTOR CHARGED FOR ALL EXPENSES.

B. HYDROSTATIC TESTS: MAKE BY COMPLETELY FILLING PIPING SYSTEM WITH WATER AND ELIMINATING ACCUMULATIONS OF AIR SO THAT LEAKAGE, NO MATTER HOW SMALL, WILL BE APPARENT ON TEST GAUGE IMMEDIATELY, BUT IN NO CASE LESS THAN 24 HOURS.

C. ALL DOMESTIC HOT AND COLD WATER PIPING SHALL BE PRESSURE TESTED TO THE APPROVAL OF THE ADMINISTRATIVE AUTHORITY AND MINIMUM STANDARDS, AS FOLLOWS:

SYSTEM	TEST PRESSURE
DOMESTIC HOT & COLD WATER	150 PSI

1. ALL PIPING SHALL BE FULLY EXPOSED FOR INSPECTION.

2. ALL TESTING IN THE PRESENCE OF THE AUTHORIZED INSPECTOR.

D. SANITARY SOIL, WASTE AND VENT SYSTEM TESTS: BEFORE INSTALLATION OF FIXTURES, CAP ENDS OF SYSTEM AND FILL LINES WITH WATER TO ROOF LINE (INCLUDING VENTS) AND ALLOW TO STAND UNTIL A THOROUGH INSPECTION IS MADE. MAKE TESTS IN SECTIONS IF NECESSARY OR CONVENIENT. HOWEVER, INCLUDE INTERCONNECTIONS BETWEEN NEW SECTIONS AND PREVIOUSLY TESTED SECTIONS IN THE NEW TEST.

E. OPERATIONAL TESTS SHALL BE MADE ON ALL EQUIPMENT FIXTURES AND DEVICES TO DETERMINE PROPER COMPLIANCE WITH SPECIFICATIONS. ALL EQUIPMENT SHALL FUNCTION QUIETLY AND EFFICIENTLY; AND UNDUE NOISE OR VIBRATION CAUSED BY MALFUNCTIONING OF PIPING, EQUIPMENT, ETC., SHALL BE PROMPTLY CORRECTED BEFORE ACCEPTANCE.

3.05 PROTECTION

A. PROTECT MATERIALS AND FIXTURES AFTER INSTALLATION AGAINST DAMAGE OR USE DURING CONSTRUCTION.

B. FIXTURES AND EQUIPMENT WITH DAMAGED FINISH SHALL BE REMOVED AND REPLACED WITH NEW FIXTURES AND/OR EQUIPMENT AT THE CONTRACTOR'S EXPENSE.

3.06 FIXTURE SETTING

A. FIXTURES SHALL BE ANCHORED AND SET LEVEL AND SQUARE WITH RELATION TO WALLS AND FLOOR LINES, USING EQUAL SPACING AND GROUPING. CONTRACTOR SHALL ENSURE BACKING FOR FIXTURES IS INSTALLED. SEAL FIXTURES AT WALL OR FLOOR WITH DOW CORNING NO. 780 WHITE MASTIC CEMENT.

3.07 CLEAN UP

A. UPON COMPLETION, REMOVE EXCESS MATERIAL AND EQUIPMENT FROM THE JOB SITE, LEAVING THE AREA IN A BROOM CLEAN CONDITION.

3.08 PROJECT CLOSE-OUT REQUIREMENTS

A. PROVIDE THE FOLLOWING ITEMS AS PREREQUISITE TO THE ISSUANCE OF CERTIFICATE FOR FINAL PAYMENT AND FORMAL ACCEPTANCE OF THE PROJECT.

1. "AS-BUILT" RECORD DRAWINGS
2. TEST REPORTS
3. CERTIFIED STATEMENT OF LABORATORY TESTS

B. ALL "AS-BUILT" RECORD DRAWINGS, TEST AND BALANCE REPORTS, MAINTENANCE AND OPERATING MANUALS AND OPERATIONAL TEST INSPECTIONS SHALL BE APPROVED IN WRITING BY THE PROJECT ENGINEER.

END OF SECTION

JENNIFER ROBINSON ARCHITECTS
8218 ROYAL GORGE DRIVE
SAN DIEGO, CA 92119
619.571.9114

LICENSED ARCHITECT
JENNIFER R. ROBINSON
C30540
REN. 6-30-2027
STATE OF CALIFORNIA

ALL IDEAS, ARRANGEMENTS AND PLANS INDICATED OR REPRESENTED BY THIS DRAWING ARE OWNED BY, AND THE PROPERTY OF JENNIFER ROBINSON ARCHITECTS AND WERE CREATED, EVOLVED AND DEVELOPED FOR THE USE ON, AND IN CONNECTION WITH, THE SPECIFIED PROJECT. NONE OF SUCH IDEAS, DESIGNS, ARRANGEMENTS OR PLANS SHALL BE USED BY, OR DISCLOSED TO ANY PERSON, FIRM OR CORPORATION FOR ANY PURPOSE WHATSOEVER WITHOUT THE WRITTEN PERMISSION OF JENNIFER ROBINSON ARCHITECTS.

AKA HEADSTART, INC. DAY CARE
SITE & TENANT IMPROVEMENTS
698 W. MADISON AVENUE, EL CAJON, CA 92020

ISSUE	DATE
☐ PLANCHECK SUBMITTAL	26 MAR 2026
⚠ RECHECK DRAWINGS	22 JUNE 2026

REGISTERED PROFESSIONAL ENGINEER
TREVOR S. PROVENCHER
M 42119
MECHANICAL
STATE OF CALIFORNIA

MDC MARINO DESIGN CONSULTING INC.
2615 CAMINO DEL RIO S. SUITE 402
SAN DIEGO, CA 92108
PH: 619-550-2615
www.mdcmechanical.com

PLUMBING SPECIFICATIONS

P401

SHEET OF 65

LIGHTING CONTROL PANEL SEE CONTROL DETAIL AND SCHEDULES FOR MORE INFORMATION

PUSH BUTTON LOW VOLTAGE OVERRIDE CONTROL SWITCH

ZONE CONTROLLED (UPPER CASE LETTER DENOTES ZONE CONTROLLED)

SWITCH LEG CONTROLLED (LOWER CASE LETTER DENOTES SWITCH LEG CONTROLLED)

FIXTURE CALLOUT:

NUMBER → FIXTNO
VOLTAGE → 277V
WATTAGE → 9Ø
R

MOUNTING TYPE:
- R RECESSED
- S SURFACE
- P PENDANT
- PT POLE TOP
- CH CHAIN HUNG

ALL INTERIOR OFFICES SHALL BE PROVIDED WITH DECORA TYPE SWITCHES, SINGLE POLE 20A, MTD 48" AFF TO TOP DESIGNATED TO CONTROL LIGHTING IN CIRCUIT LEGS. DEVICE: WHITE COVER PLATE: WHITE

2- DOUBLE POLE
3- THREE WAY
4- FOUR WAY
PL - PILOT LIGHT
T - ROTARY TIMER
K - KEYED SWITCH
M - HORSEPOWER RATED MOTOR SWITCH
MTO - MANUAL MOTOR STARTER WITH THERMAL OVERLOADS
DIM - LOAD RATED DIMMER
PB - PUSH-BUTTON

LAB AREA DEVICE TYPES
100% OF ALL LAB WALL SWITCHES TO BE SPST TYPE WITH STAINLESS STEEL COVERPLATES

WALL MOUNTED MOTION CONTROLLED LIGHTING SWITCH WITH INTEGRAL DIMMING SWITCHING SEE DETAILS FOR DESCRIPTIONS

LED MODULE RELAY PACK SEE DETAILS FOR DESCRIPTIONS

CEILING MOUNTED ULTRASONIC MOTION SENSOR. SEE PLANS FOR DIRECTIONS DEVICE: WHITE

EXIT SIGN WITH 90 MINUTE BATTERY PACK. REFER TO FIXTURE SCHEDULE

LOW LEVEL EXIT SIGN WITH 90MIN BATTERY PACK MTD 18" AFF TO CENTER. REFER TO FIXTURE SCHEDULE.

EGRESS LIGHTING WITH 90 MINUTE BATTERY PACK. REFER TO FIXTURE SCHEDULE

LIGHTING SYMBOLS

1. ALL CONDUCTORS SHALL BE STRANDED COPPER FOR SIZES ABOVE #10AWG. CONDUCTORS #12AWG AND SMALLER SHALL BE SOLID. AC CABLE IS NOT ALLOWED AND SHALL NOT BE INSTALLED. AN EQUIPMENT GROUND CONDUCTOR SHALL BE INSTALLED IN ALL FLEXIBLE CONDUITS. ALL BRANCH CIRCUITS SHALL BE INSTALLED WITH A GREEN GROUND CONDUCTOR. ALL BRANCH CIRCUITS OVER 60' SHALL USE A MINIMUM OF #10AWG CONDUCTORS.
2. ELECTRICAL CONTRACTOR TO REVIEW OTHER DISCIPLINE DRAWINGS AND INDICATE CONFLICTS OF CONDUIT ROUTING, UNDERGROUND COORDINATION AND CEILING HEIGHT CONFLICTS.
3. ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTION OF EXISTING SPACES ADJACENT TO WORK DURING THE COURSE OF DEMOLITION AND NEW WORK. ALL REPAIRS OF DAMAGED AREAS ARE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR.
4. ALL ELECTRICAL DEVICES, EQUIPMENT, AND LIGHT FIXTURES SHALL BE INSTALLED PER CALIFORNIA A.D.A. REQUIREMENTS.
5. ALL ELECTRICAL AND TEL/DATA CONDUIT AND RELATED FITTINGS SHALL BE CONCEALED. ANY LOCATIONS IN PUBLIC VIEW SHALL BE BROUGHT TO THE ATTENTION OF THE ELECTRICAL ENGINEER AND APPROVED PRIOR TO INSTALLATION. ALL CONDUIT RUNS SHOWN ARE DIAGRAMMATIC, COORDINATE ALL CONDUIT RUNS WITH OTHER DISCIPLINES.
6. ELECTRICAL WORK INSTALLED UNDER THIS PERMIT TO COMPLY WITH 2022 CALIFORNIA ELECTRICAL CODE, LOCAL AND STATE ENERGY STANDARDS AND ALL OTHER APPLICABLE CODES.
7. ELECTRICAL CONTRACTOR TO PROVIDE AND INSTALL WEATHERPROOF DEVICES, JUNCTION BOXES, FITTINGS, CONDUIT AND PULLBOXES AT ALL DAMP AND WET LOCATIONS.
8. ELECTRICAL CONTRACTOR SHALL COORDINATE REQUIRED ELECTRICAL SHUTDOWNS WITH OWNER 7 DAYS PRIOR TO SHUTDOWN. ALL SCHEDULED UTILITY SHUTDOWNS SHOULD BE SCHEDULED FOR AFTER HOURS WORK FOR OCCUPIED BUILDINGS. THE CONTINUITY OF POWER FOR AREAS OUTSIDE THE PERMITTED WORK SHALL BE MAINTAINED UNLESS A SHUTDOWN IS SCHEDULED.
9. ELECTRICAL CONTRACTOR SHALL VERIFY EXISTING SITE CONDITIONS PRIOR TO BID COMPLETION.
10. ELECTRICAL CONTRACTOR SHALL COORDINATE REQUIRED UTILITY METER APPLICATIONS AND ASSIST OWNER FOR PROPER METER RELEASE SCHEDULE.
11. ELECTRICAL CONTRACTOR TO PROVIDE AND INSTALL REQUIRED MATERIALS FOR JOB COMPLETION. ELECTRICAL CONTRACTOR SHALL COORDINATE PROCUREMENT OF LONG LEAD ITEMS, AND COORDINATE STORAGE OF MATERIALS TO AVOID DAMAGE PRIOR TO INSTALLATION.
12. ALL EMPTY CONDUITS ARE TO BE PROVIDED WITH PULL ROPES. LABEL EACH END OF CONDUIT TO INDICATE EXACT DESTINATION.
13. ELECTRICAL PANELS SHALL NOT BE LOCATED WITHIN FIRE-RATED CORRIDORS.
14. ALL MATERIALS USED UNDER THIS PERMIT SHALL BE NEW AND BEAR THE APPROPRIATE UL LABEL. USED OR RE-CONDITIONED MATERIALS ARE PROHIBITED.
15. ALL PERMANENTLY INSTALLED EQUIPMENT SHALL BEAR A UL LABEL OR NATIONALLY RECOGNIZED TESTING AGENCY CERTIFICATION.
16. PROVIDE AND INSTALL CLEAR ADHESIVE LABELS INDICATING PANEL AND CIRCUIT NUMBER ON ALL OUTLETS AND SWITCHES, LETTER HEIGHT TO BE 1/4"
17. PROVIDE 120V CONNECTION TO DOOR HARDWARE/CONTROLLER AS REQUIRED. COORDINATE FINAL REQUIREMENTS WITH HARDWARE AND SECURITY VENDORS.
18. ALL MULTIWIRE BRANCH CIRCUITS SHALL BE INSTALLED WITH AN IDENTIFIED HANDLE TIE OR A 2-POLE/3-POLE CIRCUIT BREAKER PROVIDES THE REQUIRED SIMULTANEOUS OPENING OF THE UNGROUNDED CONDUCTORS PER NEC 240.15 (B)
19. ALL OUTLET DEVICES TO HAVE CLEAR ADHESIVE LABEL INDICATING PANEL AND CIRCUIT NUMBER ON INSIDE OF BOX AND OUTSIDE OF COVERPLATE.
20. ALL GFCI RECEPTACLES TO BE INSTALLED PER NEC 210.8. IF EQUIPMENT IS TO BE INSTALLED IN FRONT OF A GFCI RECEPTACLE, PROVIDE DEAD-FRONT GFCI IN READILY ACCESSIBLE LOCATION FEEDING A STANDARD OUTLET AND LABEL THE OUTLET WITH EQUIPMENT NAME TAG.
21. ALL CONDUIT SHALL BE CONCEALED TO THE MAXIMUM EXTENT POSSIBLE. IN EXPOSED CEILINGS OR AREAS WHERE THE CONDUIT CANNOT BE CONCEALED, CONTRACTOR TO USE EMT AND COORDINATED WITH ARCHITECT FOR ROUTING REQUIREMENTS.

GENERAL NOTES

DATA OUTLET WITH TRIM RING, PULL STRING TO ACCESSIBLE CEILING SPACE. +18" A.F.F. TO CENTER

TELEPHONE OUTLET WITH TRIM RING, PULL STRING TO ACCESSIBLE CEILING SPACE. +18" A.F.F. TO CENTER

TELECOMMUNICATIONS OUTLET WITH TRIM RING, FULL STRING TO ACCESSIBLE CEILING SPACE. +18" A.F.F. TO CENTER

TELECOMMUNICATIONS OUTLET WITH TRIM RING, FULL STRING WITH (1) 1" FLEX CONDUIT TO ACCESSIBLE CEILING SPACE. +18" A.F.F. TO CENTER

TELECOMMUNICATION OUTLET FLUSH FLOOR MOUNTED ON FIRE RATED POKE-THRU.

TELECOMMUNICATIONS CONDUIT ONLY, 1"C.O. U.O.N.

EH ELECTROMAGNETIC DOOR HOLDER

IC INTERCOM LOCATION

CR CARD READER

DS ELECTRIC DOOR STRIKE

¾" FIRE RATED PLYWOOD BACKBOARD WITH #6AWG GROUND TO BUILDING SYSTEM GROUND.

CLOSED SIDE CABLE TRAY PER PLANS. COORDINATE ROUTING WITH OTHER DISCIPLINES

TEL/DATA SYMBOLS

FUSED SWITCH, SEE SINGLE-LINE DIAGRAM FOR MORE INFORMATION

CIRCUIT BREAKER, SEE SINGLE-LINE DIAGRAM FOR MORE INFORMATION

TRANSFORMER, SEE SINGLE-LINE DIAGRAM FOR MORE INFORMATION

SHIELDED TRANSFORMER, SEE SINGLE-LINE DIAGRAM FOR MORE INFORMATION

CURRENT TRANSFORMER

POTENTIAL TRANSFORMER

DRAW OUT DEVICE

ME NL — AUTOMATIC TRANSFER SWITCH- OPEN TRANSITION WITH IN-PHASE MONITOR.

PANELBOARD
LOAD NOMENCLATURE:
- L - LIGHTING
- H - HOUSE
- OP - OFFICE POWER
- M - MECHANICAL
- MP - MECHANICAL (208V)
- LP - LAB POWER
- CP - COMPUTER ROOM
- K - KITCHEN

NUMBER INDICATES FLOOR LEVEL

NEW PANEL L1

M — METER
- M - UTILITY METER
- VM - VOLT METER
- AM - AMMETER
- VAR - VARMETER
- WM - WATTMETER
- WHM - WATTHOUR METER
- WDM - WATTHOUR DEMAND METER

GFI — GROUND FAULT CIRCUIT INTERRUPTER

DL — DOUBLE LUG

SS — SOLID STATE DEVICE

FT — FEED THROUGH PANELBOARD

R — HEAVY DUTY SPST OR DPST RELAY (SIEMENS "FRD" SERIES OR EQUAL) IN NEMA 1 OR NEMA 3R ENCLOSURE WITH 120V CONTACT COIL.

ST — SHUNT TRIP DEVICE

PROVIDE LIQUID TIGHT FINAL CONNECTION TO EQUIPMENT

RACEWAY OR WIREWAY ASSEMBLY DOWN

RACEWAY OR WIREWAY ASSEMBLY UP

HOMERUN TO PANEL, CIRCUITS AS INDICATED

UNDERGROUND HOMERUN TO PANEL, CIRCUITS AS INDICATED

CONCEALED EMT CONDUIT WITH THWN/THHN WIRE 2#12AWG, ½"C MINIMUM.

CONCEALED EMT CONDUIT WITH THWN/THHN WIRE 3#12AWG, ½"C MINIMUM.

#Ø CONCEALED EMT CONDUIT WITH THWN/THHN WIRE 3#ØAWG, ¾"C MINIMUM.

#ØN CONCEALED EMT CONDUIT WITH THW WIRE (3)#12AWG, (1)#ØAWG NEUTRAL ¾"C MINIMUM.

STUBBED CONDUIT WITH PLASTIC BUSHING

UNDERGROUND CAPPED CONDUIT

SEAL FITTING INSTALLED PER PLANS

PULL BOX SIZED PER NEC CODE

MOTOR (PROVIDED BY OTHERS)

J JUNCTION BOX

JH WALL MOUNTED JUNCTION BOX

L5-30R 120Ø RECEPTACLE
NEMA CONFIGURATION AS NEEDED

DUPLEX RECEPTACLE MTD 18" AFF TO CENTER
COVER PLATE COLOR: WHITE

DEVICE TYPE		DEVICE COLOR
	STANDARD	WHITE
IG	ISOLATED GROUND	ORANGE WITH TRIANGLE IDENTIFICATION
D	DEDICATED 20A RATED 5-20R	GRAY
GFI	20A GFI RATED	WHITE
UPS	15A OR 20A UPS	GRAY
EG	EMERGENCY	RED
TVSS	80-150 JOULE TVSS	BLUE

LAB AREA DEVICE TYPES
100% OF ALL LAB RECEPTACLES TO BE 20A RATED 5-20R WITH STAINLESS STEEL COVERPLATES

DOUBLE DUPLEX RECEPTACLE MTD 18" AFF TO CENTER SCHEDULE AS NOTED ABOVE

SPLIT WIRED 15A ½HOT, ½ SWITCHED OUTLET COLOR: WHITE

SURFACE MOUNTED DUPLEX RECEPTACLE PROVIDE CAST BOX AND STAINLESS STEEL COVER PLATE

SURFACE MOUNTED DOUBLE DUPLEX RECEPTACLE PROVIDE CAST BOX AND STAINLESS STEEL COVER PLATE

208V/1Ø RECEPTACLE NEMA CONFIGURATION AS NOTED

208V/3Ø RECEPTACLE NEMA CONFIGURATION AS NOTED

SURFACE MOUNTED 208V/3Ø RECEPTACLE NEMA CONFIGURATION AS NOTED

FLOOR BOX WITH DOUBLE DUPLEX RECEPTACLE AND SINGLE GANG TEL/DATA RECEPTACLE

FLOOR BOX WITH DUPLEX RECEPTACLE AND SINGLE GANG TEL/DATA RECEPTACLE

SPECIALTY FLOOR BOX PER PLANS MULTIPLE GANG BOX. SEE SPECS

POKE THROUGH BOX WITH DOUBLE DUPLEX RECEPTACLE AND SINGLE GANG TEL/DATA RECEPTACLE

POKE THROUGH BOX WITH DUPLEX RECEPTACLE AND SINGLE GANG TEL/DATA RECEPTACLE

SPECIALTY POKE THROUGH BOX PER PLANS MULTIPLE GANG BOX. SEE SPECS

PEDESTAL MOUNTED DOUBLE DUPLEX RECEPTACLE MANUF: HUBBELL #SA6688 W/STAINLESS STEEL COVER PLATES

PEDESTAL MOUNTED DUPLEX RECEPTACLE MANUF: HUBBELL #SA6686 W/STAINLESS STEEL COVER PLATES

ROOF MOUNTED WEATHERPROOF, GFI WORK OUTLET PROVIDE CAST BOX W/STAINLESS STEEL WP COVER

EXTERNALLY OPERATED FUSED DISCONNECT SWITCH PROVIDE PER NEMA RATING REQUIRED

COMBINATION FVNR MAGNETIC MOTOR STARTER AND DISCONNECT RATING AND POLES AS INDICATED. PROVIDE WITH OVERLOAD PER HORSEPOWER REQUIREMENTS, CPT, H.O.A. WITH PILOT LIGHTS PROVIDE WITH (1) EACH N.O., AND N.C. AUX CONTACTS

FVNR MAGNETIC STARTER WITH OVERLOAD PER HORSEPOWER REQUIREMENTS, CPT, H.O.A. WITH PILOT LIGHTS PROVIDE WITH (1) EACH N.O., AND N.C. AUX CONTACTS

PP DUAL CHASE POWER POLE

VFD VARIABLE FREQUENCY DRIVE(PROVIDED BY OTHERS)

WALL MOUNTED UTILITY METER AND SERVICE DISCONNECT

FLUSH MOUNTED PANELBOARD

SURFACE MOUNTED PANELBOARD

SURFACE MOUNTED LIGHTING CONTROL PANEL, U.O.N.

FLUSH MOUNTED LIGHTING DIMMING PANEL, U.O.N.

FIRE RATED DOUBLE DUPLEX POKE THROUGH SEE DETAILS FOR MORE INFORMATION

FIRE RATED SYSTEMS FURNITURE FEED POKE THROUGH SEE DETAILS FOR MORE INFORMATION

POWER SYMBOLS

A	AMPERES	INCAND	INCANDESCENT
AC	ALTERNATING CURRENT	INV.	INVERTER
AIC	AMPERES INTERRUPTING CAPACITY	J-BOX	JUNCTION BOX
AFF	ABOVE FINISHED FLOOR	KS	KNEE SPACE
AFG	ABOVE FINISHED GRADE	KVA	KILO-VOLTAMPERE
AF	AMP FRAME/AMP FUSE	KW	KILO-WATT
AL	ALUMINUM	KWH	KILO-WATT-HOUR
ARCH	ARCHITECT OR ARCHITECTURAL	LBS	POUNDS
AS	AMP SWITCH	LF	LINEAL FEET
AT	AMP TRIP	LTG	LIGHTING
ATS	AUTOMATIC TRANSFER SWITCH	LV	LOW VOLTAGE
AUX	AUXILIARY	MANUF	MANUFACTURER
AWG	AMERICAN WIRE GAUGE	MAX	MAXIMUM
BKBD	BACKBOARD	MCB	MAIN CIRCUIT BREAKER
C	CONDUIT WITH WIRE	MC	MECHANICAL CONTRACTOR
CATV	CABLE TELEVISION	MCC	MOTOR CONTROL CENTER
CCTV	CLOSED CIRCUIT TELEVISION	MCP	MOTOR CIRCUIT PROTECTION
CB	CIRCUIT BREAKER	MECH	MECHANICAL
CLF	CURRENT LIMITING FUSE	MIN	MINIMUM
C.O.	CONDUIT ONLY WITH NYLON PULL CORD	MH	METAL HALIDE
CONTR	CONTRACTOR	MLO	MAIN LUGS ONLY
CPT	CONTROL POWER TRANSFORMER	MTG	MOUNTING
CU	COPPER	MV	MERCURY VAPOR
CT	CURRENT TRANSFORMER	N	NEUTRAL
CW	COLD WATER	NC	NORMALLY CLOSED
D	DEDICATED OUTLET	NEC	NATIONAL ELECTRIC CODE
DC	DIRECT CURRENT	NIC	NOT IN CONTRACT
DIA	DIAMETER	NL	NIGHT LIGHT
DISC	DISCONNECT	NTS	NOT TO SCALE
DIST	DISTRIBUTION	NO	NORMALLY OPEN
DWGS	DRAWINGS	OC	ON CENTER
EA	EACH	OFCI	OWNER FURNISHED CONTRACTOR INSTALLED
EB	90-MINUTE BATTERY CONNECTED TO UNIT	OFOI	OWNER FURNISHED OWNER INSTALLED
EC	ELECTRICAL CONTRACTOR	P	PEDESTAL MOUNT
ED	'IOTA' LED EMERGENCY DRIVER (IF AC DRIVER IS EXTERNAL) OR 'IOTA' MICRO INVERTER (IF DRIVER IS INTERNAL TO FIXTURE) QUANTITY OF MICRO INVERTERS PER INVERTER DIVIDED BY FIXTURE WATTAGE) PROVIDE ADDITIONAL VOLTAGE SENSING CIRCUIT FOR SWITCHED FIXTURES	PB	PULL BOX
		PC	PHOTOCELL CONTROL
		PCTC	PHOTOCELL/TIMECLOCK CONTROL
		PF	POWER FACTOR
		PH	PHASE
		PIV	POST INDICATING VALVE
		PL	PILOT LIGHT
EG	EMERGENCY GENERATOR CONNECTION	PVC	POLYVINYL CHLORIDE
EGB	EMERGENCY GENERATOR AND 90-MINUTE BATTERY BACKUP	PWR	POWER
		PP	POWER POLE
EF	EXHAUST FAN	PT	POTENTIAL TRANSFORMER
ELECT	ELECTRICAL	QR	FIXTURE WITH QUARTZ RESTRIKE
ELEV	ELEVATION/ELEVATOR	QTY	QUANTITY
EMT	ELECTRO-METALIC TUBING	RECEPT	RECEPTACLE
EXIST	EXISTING	REFER	REFRIGERATOR
EXO	EXTERNALLY OPERATED CIRCUIT BREAKER	RGS	RIGID GALVANIZED STEEL
FA	FIRE ALARM	SD	SMOKE DETECTOR
FC	FOOT CANDLE	SPEC	SPECIFICATION
FF	FURNITURE FEED	SQ FT	SQUARE FEET OR SQUARE FOOT
FIXT	FIXTURE	SW	SWITCH
FLUOR	FLUORESCENT	SWBD	SWITCHBOARD
FT.	FEET OR FOOT	SWGR	SWITCHGEAR
FVNR	FULL VOLTAGE NON-REVERSING	TEMP	TEMPERATURE OR TEMPORARY
G	GROUND BUS OR WIRE	TV	TELEVISION
GALV	GALVANIZED	TEL, TELE	TELEPHONE
GC	GENERAL CONTRACTOR	TC	TIME CLOCK
GD	GARBAGE DISPOSAL	TL	TWIST LOCK
GEN	GENERATOR	TRANSF	TRANSFORMER
GFCI	GROUND FAULT CURRENT INTERRUPTER	TVSS	TRANSIENT VOLTAGE SURGE SUPPRESSION
GFR	GROUND FAULT RELAY	TYP	TYPICAL
GG	GREEN GROUND WIRE	UGFS	UNDERGROUND FULL SECTION
GRD	GROUND	UL	UNDERWRITERS LABORATORIES
H	HORIZONTAL	UNO	UNLESS NOTED OTHERWISE
HID	HIGH INTENSITY DISCHARGE	UPS	UNINTERRUPTIBLE POWER SUPPLY
HOA	HAND-OFF-AUTOMATIC	V	VOLTS
HP	HORSEPOWER	VA	VOLT-AMPERE
HPS	HIGH PRESSURE SODIUM	VFD	VARIABLE FREQUENCY DRIVE
HR	HEIGHT	WH	WATER HEATER
HT	HOUR	WP	WEATHER PROOF DEVICE OR COVER
HV	HIGH VOLTAGE	X	EXISTING
HZ	HERTZ	XFMR	TRANSFORMER
IG	ISOLATED GROUND BUS OR WIRE	XL	EXISTING TO BE RELOCATED
IMC	INTERMEDIATE METAL CONDUIT	XN	NEW LOCATION OF RELOCATED FIXTURE OR DEVICE
		XR	EXISTING TO BE REMOVED

ABBREVIATIONS

SHEET NUMBER	SHEET TITLE	SHEET SCALE
E001	NOTE SHEET	NONE
E002	LIGHTING DETAIL SHEET	NONE
E101	DEMO PLAN	1/8" = 1'-0"
E201	LIGHTING PLAN	1/8" = 1'-0"
E301	POWER PLAN	1/8" = 1'-0"
E401	MECHANICAL PLAN	1/8" = 1'-0"
E501	SINGLELINE AND PANEL SCHEDULES	1/8" = 1'-0"
E601	DETAIL SHEET	NONE
ET01	TITLE 24	NONE

SHEET INDEX

mpe consulting
ELECTRICAL ENGINEERS
10807 Thornmint Road, Ste 200
San Diego, CA 92127
p: 858.673.4445
www.mpeconsulting.com

REGISTERED PROFESSIONAL ENGINEER — DANIEL W. MAYORGA — E018377 Exp. 6-30-26 — ELECTRICAL — STATE OF CALIFORNIA

25-356

JENNIFER ROBINSON ARCHITECTS
8218 ROYAL GORGE DRIVE
SAN DIEGO, CA 92119
619.571.9114
mail@jrobinsonarchitects.com

ALL IDEAS, ARRANGEMENTS AND PLANS INDICATED OR REPRESENTED BY THIS DRAWING ARE OWNED BY, AND THE PROPERTY OF JENNIFER ROBINSON ARCHITECTS AND WERE CREATED, EVOLVED AND DEVELOPED FOR THE USE ON, AND IN CONNECTION WITH, THE SPECIFIED PROJECT. NONE OF SUCH IDEAS, DESIGNS, ARRANGEMENTS OR PLANS SHALL BE USED BY, OR DISCLOSED TO ANY PERSON, FIRM OR CORPORATION FOR ANY PURPOSE WHATSOEVER WITHOUT THE WRITTEN PERMISSION OF JENNIFER ROBINSON ARCHITECTS.

AKA HEADSTART, INC. DAY CARE
SITE & TENANT IMPROVEMENTS
698 W. MADISON AVENUE, EL CAJON, CA 92020

ISSUE	DATE
☐ PLANCHECK SUBMITTAL	20 MAR 2026
△ RECHECK DRAWINGS	22 JUNE 2026

NOTE SHEET

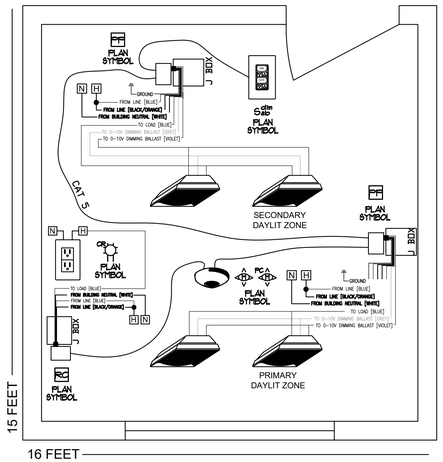
E001

SHEET OF –

NOTE SHEET

TYPE	MOUNTING	DESCRIPTION	MANUFACTURER	PART NUMBER	SOURCE	INITIAL LUMENS	EGRESS LUMENS	COLOR TEMP	MIN. CRI	VOLTAGE	INPUT WATTS	DIMMING	NOTES
F1	RECESSED GRID	2X4 RECESSED ARCHITECTURAL TROFFER WITH CURVED SMOOTH CENTER DIFFUSER. DIE-FORMED HOUSING WITH ACCESSIBLE LED BOARDS AND DRIVERS. DAMP LISTED.	LITHONIA	2BLT4-48L-ADP-EZ1-LP835	LED	4800L		3500K	80	MVOLT	38W	0-10V 100%-10%	
F1E	RECESSED GRID	2X4 RECESSED ARCHITECTURAL TROFFER WITH CURVED SMOOTH CENTER DIFFUSER. DIE-FORMED HOUSING WITH ACCESSIBLE LED BOARDS AND DRIVERS. DAMP LISTED. E (SHADED): SAME AS FIXTURE ABOVE EXCEPT WITH 90 MINUTE EMERGENCY POWER PROVIDED BY BATTERY BACKUP.	LITHONIA	2BLT4-48L-ADP-EZ1-LP835 E: +E10WLCP	LED	4800L		3500K	80	MVOLT	38W	0-10V 100%-10%	
F2	RECESSED	6IN DIAMETER, RECESSED DOWNLIGHT. GALVANIZED STEEL MOUNTING/PLASTER FRAME. SPUN ALUMINUM REFLECTOR IN MATTE DIFFUSE FINISH WITH MATCHING TRIM. 55 DEGREE WIDE BEAM OPTICS. DAMP LISTED.	LITHONIA	LDN6-35/20-L04-AR-LD-MVOLT-GZ10	LED	2000L		3500K	80	MVOLT	22.5W	0-10V 100%-10%	
F3	SURFACE MOUNTED	LED VANITY LIGHT FIXTURE	TBD	TBD	LED	TBD		TBD	80	120V	30W	0-10V 100%-10%	
X	UNIVERSAL	SINGLE/DUAL FACE, LED EDGE LIT EXIT SIGN. CLEAR/MIRROR FACE WITH GREEN LETTERING. FACES AND CHEVRONS PER EGRESS PLANS. CONNECTED TO BUILDING EMERGENCY POWER. UL924 RATED. NICKEL-CADMIUM BATTERY WHEN REQUIRED.	LITHONIA	EDGR-FINISH-*-GMR	LED	-	-	GREEN	-	UNV	4.5W	-	PROVIDE UNIVERSAL MOUNTING KIT FOR TOP, END AND SIDE MOUNTING. COORDINATE ON-SITE. SIGNS OVER DOOR SHALL BE CENTERED.

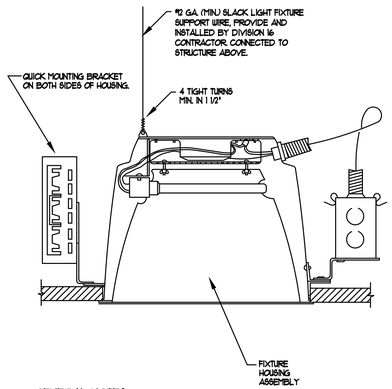
FIXTURE LIST | 6



- ✓ SWITCH WITH ON/OFF RAISE/LOWER *per section 130.1(A)
- ✓ RELAY MODULE WITH ON/OFF DIMMING 0-10v *per section 130.1(B)
- ✓ OCCUPANCY SENSOR *per section 130.1(C)
- ✓ DAYLIGHT HARVESTING *per section 130.1(D)
- ✓ AUTOMATIC DEMAND RESPONSE *per section 130.1(E)
- ✓ PLUG LOAD CONTROL *per section 130.5 (D)

	PRODUCT #	DESCRIPTION
SAB	nPODM 2P DX WH	2 CHANNEL ON/OFF TOGGLE WITH DIMMING
MS	nWSX PDT LV DX	OCCUPANCY ON/OFF SENSOR WITH DIMMING
PP	nPP16 D	16 AMP RELAY PACK WITH 0-10V DIMMING CONTROL; CHASE NIPPLE MOUNTING
RC	nPP16 PL T24	16 AMP RELAY PACK FOR PLUG LOAD CONTROL; CHASE NIPPLE MOUNTING
PC	nCM PDT 9 ADCX	STANDARD RANGE 360° SENSOR-CEILING MOUNT, LOW VOLTAGE, DUAL TECHNOLOGY (PDT); PHOTOCELL W/ DIMMING (NO WIRES)
	nBRG 8	nLIGHT BRIDGE
	nGWY 2	nLIGHT GATEWAY INTERFACE CONTROLLER
	nADR L2ADR	nLIGHT INTERFACE

TYPICAL LIGHTING WIRING DIAGRAM | 5

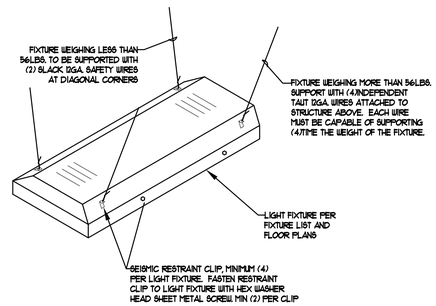


GENERAL NOTES:

1. LIGHT FIXTURE MUST BE CONNECTED TO (1) VERTICAL 12GA. WIRE ATTACHED TO OPPOSING CORNERS ALONG THE FIXTURE'S DIAGONAL. WIRES MAY BE SLACK PER CBC STANDARD NO. 2501A5.4.2, 2501A5.8
2. LIGHT FIXTURE SAFETY WIRE SHALL CONFORM WITH UBC TABLE 25-A.

16511-03A

RECESSED CAN LIGHT FIXTURE SUPPORT DETAIL | 4



GENERAL NOTES:

1. LIGHT FIXTURE MUST BE CONNECTED TO (1) VERTICAL 12GA. WIRE ATTACHED TO OPPOSING CORNERS ALONG THE FIXTURE'S DIAGONAL. WIRES MAY BE SLACK PER CBC STANDARD NO. 2501A5.4.2, 2501A5.8
2. LIGHT FIXTURE SAFETY WIRE SHALL CONFORM WITH UBC TABLE 25-A.
3. INSTALL (4) METAL SCREWS, (2) ON EACH SIDE THROUGH FIXTURE INTO MAIN "T" BAR RUNNER.

16511-03

FIXTURE SEISMIC SUPPORT DETAIL | 3

BUILDING LIGHTING SHUT-OFF
SHALL BE CONTROLLED WITH AN OCCUPANT SENSING CONTROL, AUTOMATIC TIME-SWITCH CONTROL, OR OTHER CONTROL CAPABLE OF AUTOMATICALLY SHUTTING OFF ALL OF THE LIGHTING WHEN THE SPACE IS TYPICALLY UNOCCUPIED; AND

SEPARATE CONTROLS FOR THE LIGHTING ON EACH FLOOR, OTHER THAN LIGHTING IN STAIRWELLS; AND

SEPARATE CONTROLS FOR A SPACE ENCLOSED BY CEILING HEIGHT PARTITIONS NOT EXCEEDING 5,000 SQUARE FEET.

OVERRIDE FOR BUILDING LIGHTING SHUT-OFF
THE AUTOMATIC BUILDING SHUT-OFF SYSTEM IS PROVIDED WITH A MANUAL ACCESSIBLE OVERRIDE SWITCH IN SIGHT OF THE LIGHTS. THE AREA OF OVERRIDE IS NOT TO EXCEED 5,000 SQUARE FEET. LIGHTING OVERRIDE TO BE A MAXIMUM OF 2 HOURS.

AUTOMATIC CONTROL DEVICES CERTIFIED
ALL AUTOMATIC CONTROL DEVICES SPECIFIED ARE CERTIFIED, ALL ALTERNATE EQUIPMENT SHALL BE CERTIFIED AND INSTALLED AS DIRECTED BY THE MANUFACTURER.

INDIVIDUAL ROOM/AREA CONTROLS
EACH ROOM AND AREA IN THIS BUILDING IS EQUIPPED WITH A SEPARATE SWITCH OR OCCUPANCY SENSOR DEVICE FOR EACH AREA WITH FLOOR-TO-CEILING WALLS.

UNIFORM REDUCTION FOR INDIVIDUAL ROOMS
ALL ROOMS AND AREAS GREATER THAN 100 SQUARE FEET AND MORE THAN 0.5 WATTS PER SQUARE FOOT OF LIGHTING LOAD SHALL BE CONTROLLED WITH BI-LEVEL SWITCHING FOR UNIFORM REDUCTION OF LIGHTING WITHIN THE ROOM.

DAYLIT AREA CONTROL
ALL ROOMS WITH WINDOWS AND SKYLIGHTS, THAT HAVE A WATTAGE GREATER THAN 120W, AND THAT ALLOW FOR THE EFFECTIVE USE OF DAYLIGHT IN THE AREA SHALL HAVE 50 PERCENT OF THE LAMPS IN EACH DAYLIT AREA CONTROLLED BY A SEPARATE SWITCH.

DEMAND RESPONSE CONTROLS
BUILDINGS WITH NONRESIDENTIAL LIGHTING SYSTEMS WITH HAVING A TOTAL INSTALLED LIGHTING POWER OF 4,000W OR GREATER THAT IS SUBJECT TO THE REQUIREMENTS OF SECTION 130.1(b), SHALL INSTALL CONTROLS THAT ARE CAPABLE OF AUTOMATICALLY REDUCING LIGHTING POWER IN RESPONSE TO A DEMAND RESPONSE SIGNAL.

CIRCUIT CONTROLS FOR 120V RECEPTACLES
IN ALL BUILDINGS, BOTH CONTROLLED AND UNCONTROLLED, 120V RECEPTACLES SHALL BE PROVIDED IN OFFICE AREAS, LOBBIES, CONFERENCE ROOMS, KITCHEN AREAS IN OFFICE SPACES, AND COPY ROOMS. ADDITIONALLY, HOTEL/MOTEL GUEST ROOMS SHALL COMPLY WITH SECTION 130.5(d)4. THIS IS ONLY A REQUIREMENT WHEN THERE IS AN ENTIRELY NEW OR COMPLETE REPLACEMENT OF ELECTRICAL POWER DISTRIBUTION SYSTEMS, THE ENTIRE SYSTEM SHALL MEET THE APPLICABLE REQUIREMENTS OF SECTION 130.5(d).

CONTROL OF EXTERIOR LIGHTS
OUTDOOR LIGHTING SHALL BE INDEPENDENTLY CONTROLLED FROM OTHER ELECTRICAL LOADS, AND THE CONTROLS FOR OUTDOOR LIGHTING SHALL MEET THE FOLLOWING FUNCTIONAL REQUIREMENTS:

DAYLIGHT AVAILABILITY: PHOTO CONTROL, ASTRONOMICAL TIME-SWITCH CONTROL, OR OTHER CONTROL CAPABLE OF AUTOMATICALLY SHUTTING OFF THE OUTDOOR LIGHTING WHEN DAYLIGHT IS AVAILABLE. OR:

AUTOMATIC SCHEDULE CONTROL. OR:

MOTION SENSING CONTROLS.

2025 TITLE 24 MANDATORY NOTES | 2

1. EMERGENCY LIGHT TEST SWITCH TO BE INTEGRAL TO ALL EMERGENCY FIXTURES, OTHER WISE LOCATION OF EMERGENCY LIGHT TEST SWITCH TO BE APPROVED BY ARCHITECT AND ELECTRICAL ENGINEER 30 DAYS PRIOR TO ROUGH IN.
2. ALL EMERGENCY FIXTURES TO BE NIGHT LIGHTS UNLESS OTHER WISE NOTED.
3. EMERGENCY LINEAR PENDANT FIXTURES TO BE PROVIDED WITH ISOLATED CORD FEED DROP AT PENDANT END.
4. EMERGENCY LINEAR PENDANT FIXTURES TO BE PROVIDED WITH THE CORRECT QUANTITY OF BALLASTS FOR ILLUMINATION OF ALL LAMPS IN FIXTURE EMERGENCY SECTION.
5. (2) LAMP EMERGENCY LINEAR PENDANT FIXTURES CONNECTED TO GENERATOR EMERGENCY POWER TO HAVE (1) LAMP CONNECTED TO GENERATOR CIRCUIT AND (1) LAMP SWITCHED WITH NORMAL POWER AB SWITCHED LAMPS.
6. ELECTRICAL CONTRACTOR TO OBTAIN APPROVAL ON ALL LIGHT SWITCH LOCATIONS 30 DAYS PRIOR TO ROUGH IN.
7. ELECTRICAL CONTRACTOR TO REVIEW ARCHITECTS EXITING PLAN AND PROVIDE EXIT SIGNS PER ARCHITECTS PLAN AND ELECTRICAL ENGINEERS LIGHTING PLANS.
8. ELECTRICAL CONTRACTOR TO REVIEW ARCHITECTS REFLECTED CEILING PLAN AND PROVIDE BID PER ARCHITECTS PLAN AND ELECTRICAL ENGINEERS PLAN.
9. ELECTRICAL CONTRACTOR TO NOTIFY ARCHITECT AND ELECTRICAL ENGINEER FOR ANY FIXTURE CONFLICTS THAT PROHIBIT CORRECT INSTALL WITH FRAMING OR CEILING T-BAR OR CEILING SYSTEMS. PROVIDE MINIMUM OF 30 DAYS NOTICE PRIOR TO ROUGH IN.
10. ALL CONFERENCE ROOM EMERGENCY LIGHTS ARE TO BE NORMALLY OFF. PROVIDE SWITCH LEG ON EMERGENCY HOT WIRE FOR POWER SENSING.
11. ALL EXTERIOR LIGHTING THAT IS NOT LOW PRESSURE SODIUM MUST BE CONTROLLED TO SHUT OFF BETWEEN 11PM AND 6AM.
12. ALL FLUORESCENT BALLAST ARE TO BE ELECTRONIC TYPE RAPID START.
13. ALL FLUORESCENT FIXTURES TO BE BURNED IN CONTINUOUSLY FOR FIRST 24 HOURS WITHOUT TURNING OFF.
14. ALL FLUORESCENT FIXTURES FOR INTERIOR TYPE OR EXTERIOR TYPE WITH DOUBLE-ENDED LAMPS SHALL BE PROVIDED WITH A FACTORY DISCONNECTING MEANS TO DISCONNECT ALL CONDUCTORS OF THE FIXTURE BALLAST PER NEC 410.73(G).
15. ELECTRICAL CONTRACTOR TO VERIFY LIGHT FIXTURE AND T-GRID COMPATABILITY PRIOR TO ORDER, PROVIDE MINIMUM OF 30 DAYS NOTICE TO ENGINEER AND ARCHITECT IN THE EVENT OF CONFLICT.

LIGHTING GENERAL NOTES | 1

mpe consulting
ELECTRICAL ENGINEERS
10807 Thornmint Road, Ste 200
San Diego, CA 92127
p: 858.673.4445
www.mpeconsulting.com

REGISTERED PROFESSIONAL ENGINEER
DANIEL W. MAYBERRY
E018377
Exp. 6-30-28
Electrical
STATE OF CALIFORNIA
25-356

JENNIFER ROBINSON ARCHITECTS
8218 ROYAL GORGE DRIVE
SAN DIEGO, CA 92119
619.571.9114
mail@robinsonarchitects.com

ALL IDEAS, ARRANGEMENTS AND PLANS INDICATED OR REPRESENTED BY THIS DRAWING ARE OWNED BY, AND THE PROPERTY OF JENNIFER ROBINSON ARCHITECTS AND WERE CREATED, EVOLVED AND DEVELOPED FOR THE USE ON, AND IN CONNECTION WITH, THE SPECIFIED PROJECT. NONE OF SUCH IDEAS, DESIGNS, ARRANGEMENTS OR PLANS SHALL BE USED BY, OR DISCLOSED TO ANY PERSON, FIRM OR CORPORATION FOR ANY PURPOSE WHATSOEVER WITHOUT THE WRITTEN PERMISSION OF JENNIFER ROBINSON ARCHITECTS.

AKA HEADSTART, INC. DAY CARE
SITE & TENANT IMPROVEMENTS
698 W. MADISON AVENUE, EL CAJON, CA 92020

ISSUE	DATE
☐ PLANCHECK SUBMITTAL	20 MAR 2026
⚠ RECHECK DRAWINGS	22 JUNE 2026

LIGHTING DETAIL SHEET

E002

SHEET OF –

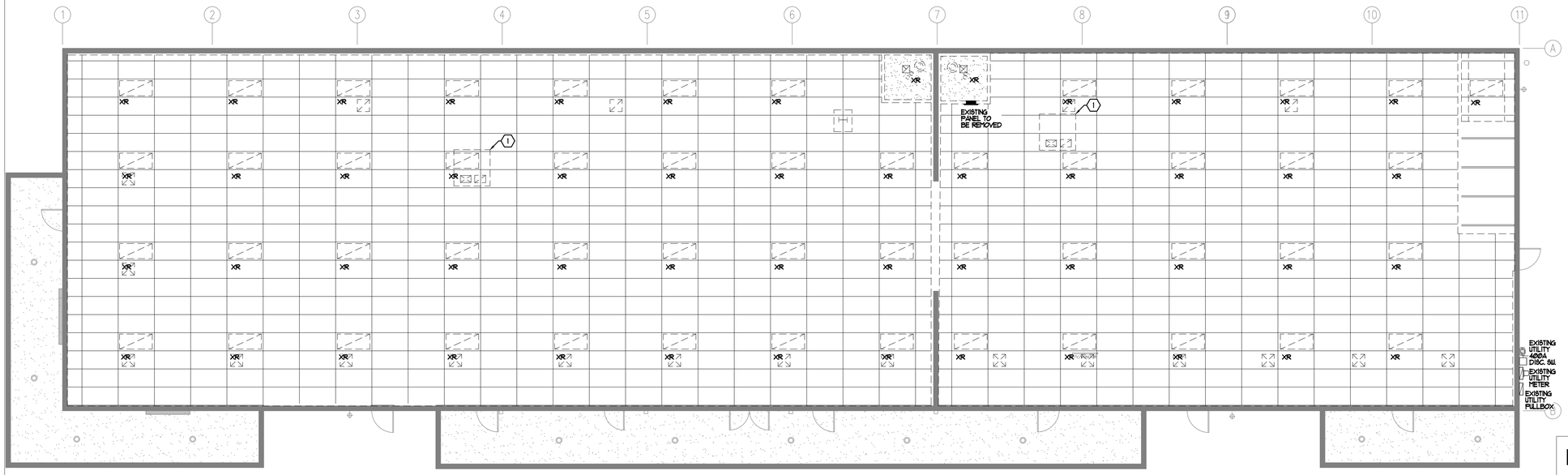
LIGHTING DETAIL SHEET

DEMOLITION NOTES:

1. NOTES AND GRAPHIC REPRESENTATIONS ON THE DRAWINGS SHALL NOT LIMIT EXTENT OF DEMOLITION REQUIRED. CONTRACTOR SHALL VISIT SITE AND CAREFULLY EXAMINE EXISTING CONDITIONS AND SHALL PERFORM ALL DEMOLITION REQUIRED TO ACHIEVE THE FINAL DESIGN INTENT AS REQUIRED BY THE CONTRACT DOCUMENTS. EXTENT OF ALL DEMOLITION WORK SHALL BE COORDINTATED WITH THE ARCHITECT AND GENERAL CONTRACTOR.
2. ALL CIRCUITS AFFECTED BY THE DEMOLITION WORK SHALL BE DE-ENERGIZED AT THEIR SOURCE PRIOR TO BEGINNING ANY DEMOLITION WORK.
3. UNLESS OTHERWISE NOTED DISCONNECT AND REMOVE ALL EXISTING LIGHTING FIXTURES, RECEPTACLES, OUTLETS AND OTHER ELECTRICAL DEVICES ALONG WITH ASSOCIATED WIRING, CONDUIT RACEWAYS, BOXES, AND SUPPORTS ON WALLS TO BE DEMOLISHED OR WHERE IN CONFLICT WITH NEW CONSTRUCTION. EXISTING ELECTRICAL DEVICES SHALL INCLUDE, BUT NOT BE LIMITED TO, TEL/DATA OUTLETS, LIGHTING SWITCHES RECEPTACLES, ETC.
4. ALL WORK REQUIRED TO REMAIN IN SERVICE BUT INTERFERING WITH THE ALTERATIONS SHALL BE RELOCATED AND RECONNECTED USING MATERIALS AND STANDARDS OF THIS CONTRACT.
5. PROVIDE BLANK COVERPLATES AT OPEN BOXES WHERE EXISTING RECEPTACLES, ELECTRICAL SERVICES OR DEVICES ARE REMOVED FROM WALL SURFACES NOT SCHEDULED TO BE REPAIRED OR REFINISHED AND BLANK-OFF ALL UNUSED OPENINGS IN FLOOR CELL SYSTEM.
6. UNLESS OTHERWISE INDICATED, EXISTING SERVICES, SYSTEMS AND WIRING SERVING EXISTING AREAS OUTSIDE OF DEMOLITION AREA SHALL REMAIN OR BE RELOCATED AS REQUIRED TO MAINTAIN OPERATION OF EXISTING SYSTEMS AND AVOID CONFLICT WITH NEW CONSTRUCTION.
7. PROVIDE ADDITIONAL SUPPORT FOR ALL EXISTING CABLES AND DEVICES TO REMAIN WHICH ARE AFFECTED BY DEMOLITION OF EXISTING CEILING.
8. IN THE PROCESS OF REMOVING WIRING DEVICES, LIGHTING FIXTURES AND OTHER ELECTRICAL EQUIPMENT AND MATERIALS, THIS CONTRACTOR SHALL EXERCISE EXTREME CAUTION TO PREVENT DAMAGE TO ARCHITECTURAL SURFACES AND MATERIALS WHICH ARE TO REMAIN, INCLUDING WALLS, FLOORS, CEILINGS, WINDOWS, DOORS, MOLDINGS, STRUCTURAL MEMBERS, ETC. THE COST TO REPAIR OR REPLACE ANY MATERIAL DEEMED BY THE ARCHITECT TO HAVE BEEN UNDULY DAMAGED BY THIS CONTRACTOR DURING DEMOLITION OR CONSTRUCTION SHALL BE PAID BY THIS COTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
9. COORDINATE WITH OWNER WHICH FIXTURES, DEVICES AND EQUIPMENT, IF ANY, ARE TO BE REMOVED, KEPT INTACT AND RETURNED TO THE OWNER. IN GENERAL, ALL DEVICES, WIRING, RACEWAYS, BOXES, SUPPORTS AND OTHER APPURTENANCES WHICH ARE TO BE REMOVED SHALL BE REMOVED FROM SITE AND PROPERLY DISPOSED.
10. CONTRACTOR SHALL PROVIDE TEMPORARY LIGHTING AND POWER TO ACCOMMODATE BOTH REMOVAL OF EXISTING AND INSTALLATION OF NEW WORK.
11. FEEDERS AND BRANCH CIRCUITS TO BE REMOVED: CONDUIT AND SUPPORTS SHALL BE REMOVED TO PANEL OF ORIGIN OR THE BOUNDARY OF THE PROJECT AREA. WIRING SHALL BE REMOVED TO THE PANEL OF ORIGIN. WHERE EMPTY CONDUITS REMAIN, INSTALL A PULL STRING AND IDENTIFY AT BOTH ENDS.
12. THE REMOVAL OF ALL FIRE ALARM, COMMUNICATION, DATA AND SECURITY EQUIPMENT AND ASSOCIATED CABLING SHALL BE COORDINATED WITH BUILDING OPERATING PERSONNEL. EXISTING BASE BUILDING FIRE ALARM SYSTEM SHALL REMAIN IN OPERATION DURING BOTH DEMOLITION AND CONSTRUCTION STAGES OF THIS PROJECT.
13. ALL WORK SHALL BE PROPERLY IDENTIFIED AFTER DEMOLITION. UPDATE ALL PANEL SCHEDULES TO REFLECT EQUIPMENT AND CIRCUIT REMOVALS.

SHEET NOTES:

1. REMOVE EXISTING ROOFTOP UNIT AND ASSOCIATED ELECTRCIAL.



DEMO PLAN

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

JENNIFER ROBINSON ARCHITECTS

8218 ROYAL GORGE DRIVE
SAN DIEGO, CA 92119
619.571.9114
mail@jrobinsonarchitects.com

ALL IDEAS, ARRANGEMENTS AND PLANS INDICATED OR REPRESENTED BY THIS DRAWING ARE OWNED BY, AND THE PROPERTY OF JENNIFER ROBINSON ARCHITECTS AND WERE CREATED, EVOLVED AND DEVELOPED FOR THE USE ON, AND IN CONNECTION WITH, THE SPECIFIED PROJECT. NONE OF SUCH IDEAS, DESIGNS, ARRANGEMENTS OR PLANS SHALL BE USED BY, OR DISCLOSED TO ANY PERSON, FIRM OR CORPORATION FOR ANY PURPOSE WHATSOEVER WITHOUT THE WRITTEN PERMISSION OF JENNIFER ROBINSON ARCHITECTS.

AKA HEADSTART, INC. DAY CARE
SITE & TENANT IMPROVEMENTS
698 W. MADISON AVENUE, EL CAJON, CA 92020

ISSUE	DATE
☐ PLANCHECK SUBMITTAL	20 MAR 2026
⚠ RECHECK DRAWINGS	22 JUNE 2026

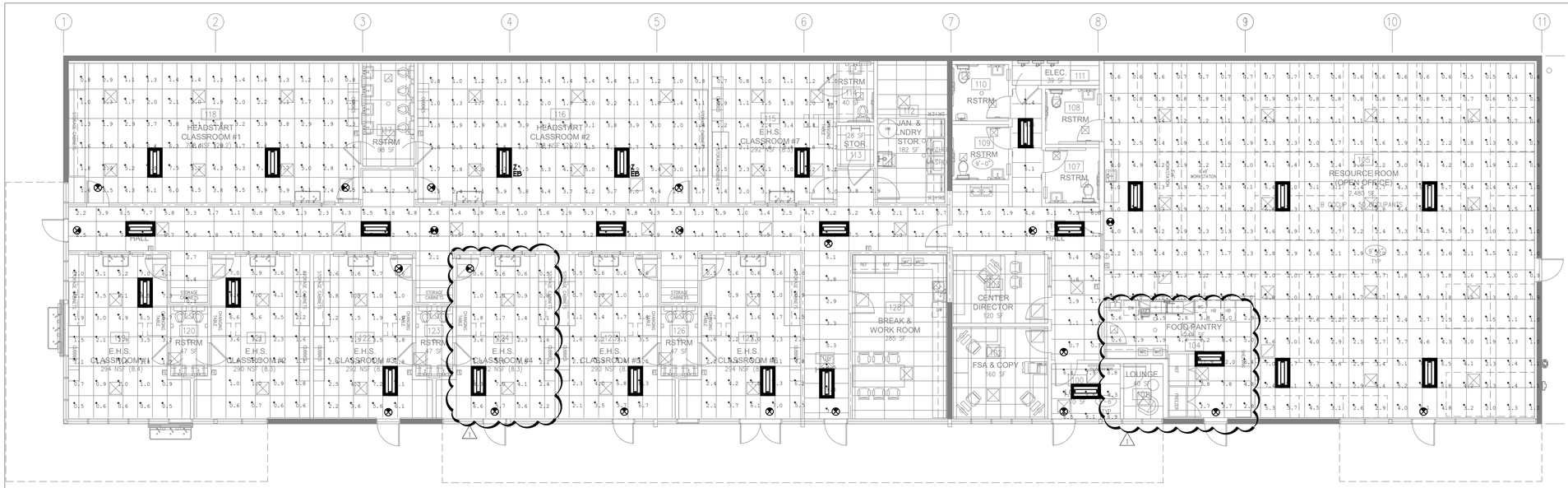
mpe consulting
ELECTRICAL ENGINEERS
10807 Thornmint Road, Ste 200
San Diego, CA 92127
p: 858.673.4445
www.mpeconsulting.com

REGISTERED PROFESSIONAL ENGINEER
DANIEL W. MAYORGAS
E018377
Exp. 6-30-28
ELECTRICAL
STATE OF CALIFORNIA
25-356

DEMO PLAN

E101

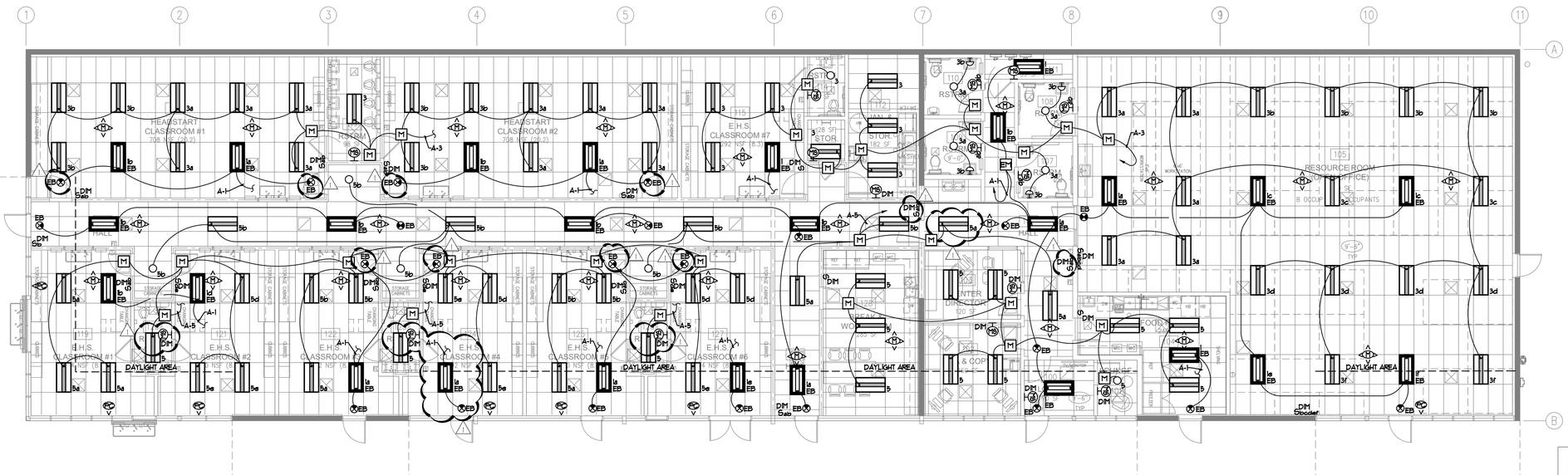
SHEET OF –



Calculation Summary							
Label	CalcType	Units	Avg	Max	Min	Avg/Min	Max/Min
CLASSROOM 1 Workplane	Illuminance	Fc	3.18	7.8	0.8	3.98	9.75
CLASSROOM 2 Workplane	Illuminance	Fc	3.19	7.9	0.8	3.99	9.88
CORRIDOR Workplane	Illuminance	Fc	3.68	9.8	0.3	12.27	32.67
EHS CLASSROOM 1 Workplane	Illuminance	Fc	2.89	8.5	0.5	5.78	17.00
EHS CLASSROOM 2 Workplane	Illuminance	Fc	2.91	8.6	0.6	4.85	14.33
EHS CLASSROOM 3 Workplane	Illuminance	Fc	2.96	8.1	0.6	4.93	13.50
EHS CLASSROOM 4 Workplane	Illuminance	Fc	2.86	8.3	0.5	5.72	16.60
EHS CLASSROOM 5 Workplane	Illuminance	Fc	2.83	8.3	0.5	5.66	16.60
EHS CLASSROOM 6 Workplane	Illuminance	Fc	2.98	8.3	0.5	5.96	16.60
EHS CLASSROOM 7 Workplane	Illuminance	Fc	3.01	8.2	0.7	4.30	11.71
FOOD PANTRY Workplane	Illuminance	Fc	4.63	12.0	0.6	7.72	20.00
LOBBY Workplane	Illuminance	Fc	7.61	9.8	6.4	1.19	1.53
OPEN OFFICE Workplane	Illuminance	Fc	2.53	8.1	0.4	6.33	20.25

EGRESS PHOTOMETRIC PLAN

SCALE: 1/8" = 1'-0" | 2



LIGHTING PLAN

SCALE: 1/8" = 1'-0" | 1

GENERAL NOTES:

1. ARCHITECT VERIFICATION CONTRACTOR TO REVIEW ARCHITECTURAL PLANS AND CASEWORK ELEVATIONS FOR ALL FINAL DEVICE AND FIXTURE TYPE REQUIREMENTS, FINAL SWITCH LOCATIONS, AND FINAL OUTLET PLACEMENTS. ANY DISCREPANCIES SHOULD BE BROUGHT TO THE ATTENTION OF THE ARCHITECT AND ENGINEER PRIOR TO ROUGH-IN.
2. GROUP MULTIPLE SWITCHES WITHIN 1' MAX, USE HI-LOW VOLTAGE PARTITIONS AS REQUIRED.
3. LOCATION OF WALL MOUNTED LOCAL LIGHTING SWITCHES IS SUBJECT TO MODIFICATION AT OR NEAR DOORS. INSTALL SWITCHES ON SIDE OPPOSITE DOOR HINGE. VERIFY FINAL HINGE LOCATION IN FIELD PRIOR ANY WORK. REFER TO ARCHITECTURAL ELEVATIONS FOR ADDITIONAL DETAILS.
4. EMERGENCY LIGHT TEST SWITCH TO BE INTEGRAL TO ALL EMERGENCY FIXTURES, OTHER WISE LOCATION OF EMERGENCY LIGHT TEST SWITCH TO BE APPROVED BY ARCHITECT AND ELECTRICAL ENGINEER 30 DAYS PRIOR TO ROUGH IN.
5. ELECTRICAL CONTRACTOR TO OBTAIN APPROVAL ON ALL LIGHT SWITCH LOCATIONS 30 DAYS PRIOR TO ROUGH IN.
6. ELECTRICAL CONTRACTOR TO REVIEW ARCHITECTS EXITING PLAN AND PROVIDE EXIT SIGNS PER ARCHITECTS PLAN AND ELECTRICAL ENGINEERS LIGHTING PLANS, EXIT SIGNS MOUNTED ABOVE 10'AFF REQUIRE TEAM APPROVAL PRIOR TO ROUGH-IN.
7. ELECTRICAL CONTRACTOR TO REVIEW ARCHITECTS REFLECTED CEILING PLAN AND PROVIDE BID PER ARCHITECTS PLAN AND ELECTRICAL ENGINEERS PLAN.
8. ELECTRICAL CONTRACTOR TO NOTIFY ARCHITECT AND ELECTRICAL ENGINEER FOR ANY FIXTURE CONFLICTS THAT PROHIBIT CORRECT INSTALL WITH FRAMING OR CEILING T-BAR OR CEILING SYSTEMS. PROVIDE MINIMUM OF 30 DAYS NOTICE PRIOR TO ROUGH IN.
9. ELECTRICAL CONTRACTOR TO VERIFY LIGHT FIXTURE AND T-GRID COMPATABILITY PRIOR TO ORDER. PROVIDE MINIMUM OF 30 DAYS NOTICE TO ENGINEER AND ARCHITECT IN THE EVENT OF CONFLICT.

EGRESS LIGHTING NOTES:

1. FACES AND CHEVRONS ON EMERGENCY EXIT SIGNS TO MATCH ARCHITECTURAL PLANS.
2. FOR EMERGENCY LIGHTING SHOWN, PROVIDE EMERGENCY LIGHTING CONTROL UNIT (ELCU) OR EQUAL) AND CONNECT BOTH LOCAL CONTROLLED NORMAL POWER AND CONSTANT HOT EMERGENCY CIRCUIT SO THAT FIXTURE MAY BE CONTROLLED DURING MANUAL OPERATION AND PROVIDE 100% OUTPUT EMERGENCY LIGHTING DURING POWER OUTAGE.
3. PROVIDE ALL COST FOR COMPLETE INSTALLATION OF FIVE ADDITIONAL EXIT SIGNS. LOCATION TO BE DETERMINED DURING FINAL INSPECTION BY FIRE MARSHAL. TURN OVER EXTRA STOCK TO OWNER.
4. THE MEANS OF EGRESS, INCLUDING THE EXIT DISCHARGE, SHALL BE ILLUMINATED TO A LEVEL OF NOT LESS THAN ONE FOOT CANDLE AT THE WALKING SURFACE AT ALL TIMES THE BUILDING SPACE SERVED BY MEANS OF EGRESS IS OCCUPIED.
5. EXIT SIGNS SHALL BE INTERNALLY OR EXTERNALLY ILLUMINATED AT ALL TIMES AND SHALL BE CONNECTED TO AN EMERGENCY POWER SYSTEM (BATTERIES, UNIT EQUIPMENT OR AN ON-SITE GENERATOR) THAT WILL AUTOMATICALLY ILLUMINATE THE EXIT SIGNS FOR A DURATION OF NOT LESS THAN 90 MINUTES.

SHEET NOTES:

1 -

JENNIFER ROBINSON ARCHITECTS
8218 ROYAL GORGE DRIVE
SAN DIEGO, CA 92119
619.571.9114
mail@robinsonarchitects.com

ALL IDEAS, ARRANGEMENTS AND PLANS INDICATED OR REPRESENTED BY THIS DRAWING ARE OWNED BY, AND THE PROPERTY OF JENNIFER ROBINSON ARCHITECTS AND WERE CREATED, EVOLVED AND DEVELOPED FOR THE USE ON, AND IN CONNECTION WITH, THE SPECIFIED PROJECT. NONE OF SUCH IDEAS, DESIGNS, ARRANGEMENTS OR PLANS SHALL BE USED BY, OR DISCLOSED TO ANY PERSON, FIRM OR CORPORATION FOR ANY PURPOSE WHATSOEVER WITHOUT THE WRITTEN PERMISSION OF JENNIFER ROBINSON ARCHITECTS.

AKA HEADSTART, INC. DAY CARE
SITE & TENANT IMPROVEMENTS
698 W. MADISON AVENUE, EL CAJON, CA 92020

ISSUE	DATE
☐ PLANCHECK SUBMITTAL	20 MAR 2026
△1 RECHECK DRAWINGS	22 JUNE 2026

mpe consulting
ELECTRICAL ENGINEERS
10807 Thornmint Road, Ste 200
San Diego, CA 92127
p: 858.673.4445
www.mpeconsulting.com

REGISTERED PROFESSIONAL ENGINEER — DANIEL W. MAYORGAS — E018377 — Exp. 6-30-26 — ELECTRICAL — STATE OF CALIFORNIA
25-356

LIGHTING PLAN

E201

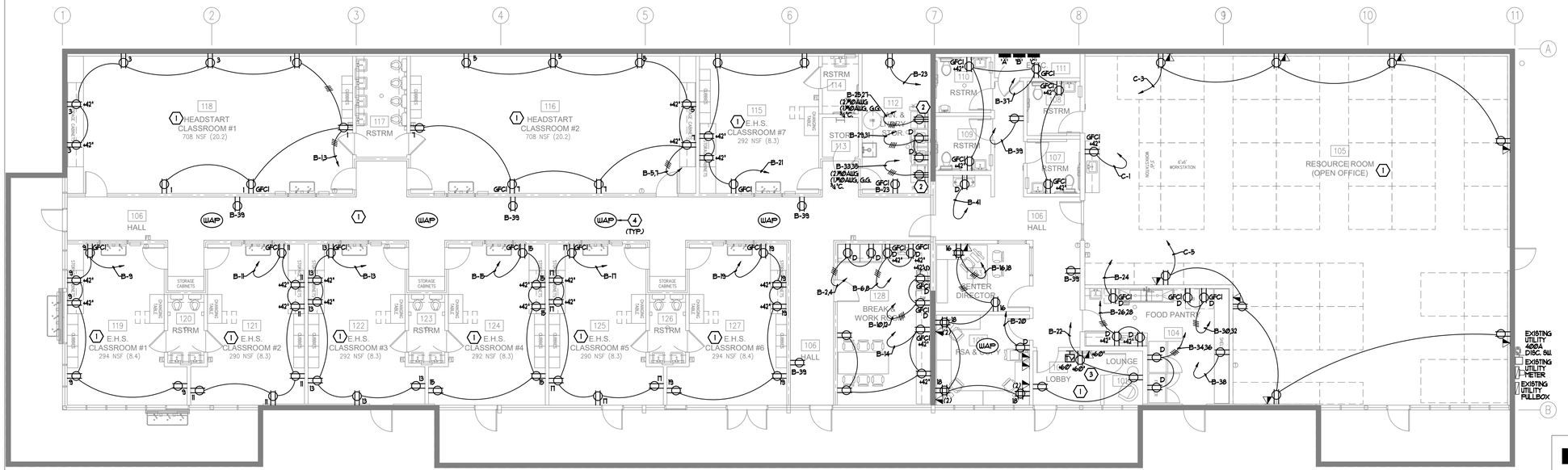
SHEET OF –

GENERAL NOTES:

1. ARCHITECT VERIFICATION CONTRACTOR TO REVIEW ARCHITECTURAL PLANS AND CASEWORK ELEVATIONS FOR ALL FINAL DEVICE AND FIXTURE TYPE REQUIREMENTS, FINAL SWITCH LOCATIONS, AND FINAL OUTLET PLACEMENTS. ANY DISCREPANCIES SHOULD BE BROUGHT TO THE ATTENTION OF THE ARCHITECT AND ENGINEER PRIOR TO ROUGH-IN.
2. PROVIDE 120V CONNECTION TO DOOR HARDWARE/CONTROLLER AS REQUIRED. COORDINATE FINAL REQUIREMENTS WITH HARDWARE AND SECURITY VENDORS.
3. ALL EXPOSED/SURFACE MOUNTED ELECTRICAL JUNCTION BOXES TO BE CAST TYPE.
4. IF RELOCATING ANY ELECTRICAL PANELS, INTERCEPT AND EXTEND EXISTING BRANCH CIRCUITS AS NECESSARY.
5. CONTRACTOR TO PROVIDE GFCI PROTECTION WHERE RECEPTACLES ARE INSTALLED WITHIN 6FT OF THE OUTSIDE EDGE OF ANY SINK. PROVIDE A GFCI CIRCUIT BREAKER AT PANEL BOARD FOR ALL CIRCUITS WHERE LAB SINKS ARE LOCATED AT BENCH TOP. IN ACCORDANCE WITH NEC 210.8.
6. CONTRACTOR SHALL COORDINATE ALL ELECTRICAL EQUIPMENT INCLUDING DEVICES, CONDUIT RUNS, ETC. WITH ARCHITECTURAL, MECHANICAL, STRUCTURAL, PLUMBING, AND ALL APPROPRIATE DISCIPLINES PRIOR TO INSTALLATION.
7. REFER TO SINGLE LINE DIAGRAMS AND PANEL SCHEDULES FOR FURTHER ELECTRICAL SYSTEM INFORMATION.
8. REFER TO MECHANICAL AND PLUMBING PLANS FOR FINAL LOCATIONS OF EQUIPMENT.
9. REFER TO MECHANICAL AND PLUMBING EQUIPMENT CONNECTION SCHEDULE FOR POWER CONNECTION REQUIREMENTS AND MAXIMUM OVERCURRENT PROTECTION DEVICE.
10. ALL ELECTRICAL EQUIPMENT, DEVICES, AND BOXES SHALL BE IN WEATHERPROOF TYPE ENCLOSURE FOR OUTDOOR APPLICATIONS.
11. ALL MULTIWIRE BRANCH CIRCUITS (INCLUDING SYSTEM FURNITURE) SHALL BE INSTALLED WITH DEDICATED NEUTRALS ROUTED IN HOMERUN TO THE PANEL FOR EACH CIRCUIT BEING UTILIZED OR HANDLE TIES IF ACCEPTABLE WITH LOCAL AHJ PER NEC 210.4(D).

SHEET NOTES:

1. ALL ELECTRICAL OUTLETS IN STUDENT AREAS WILL BE TAMPER RESISTANT, HOSPITAL GRADE UNITS ON GROUND FAULT INTERRUPTED CIRCUITS. IF RECEPTACLES WITH INDIVIDUAL RESET BUTTONS ARE PROVIDED, THEY WILL BE WIRED SO THAT ACTIVATION OF ONE RECEPTACLES BREAKER DOES NOT DEACTIVATE THE ENTIRE CIRCUIT. ALL ELECTRICIAL DEVICE COVERPLATES (FOR SWITCHES, RECEPTACLES, BLANK COVER PLATES, ETC) WILL BE PROVIDED WITH TAMPER-RESISTANT SCREWS. COVER PLATES TO BE MADE WITH POLYCARBONATE MATERIALS AND WILL HAVE SCREWS IN EACH CORNER TO MAKE THEM RIGID ENOUGH TO RESIST BENDING AND PROTECT STUDENTS FROM ACCESS TO ELECTRICAL WIRING AND CONTACTS.
2. PROVIDE STANDARD DRYER RECEPTACLE. CONFIRM REQUIREMENTS WITH EQUIPMENT PROVIDER.
3. PROVIDE CLOCK STYLE OUTLETS IN THIS AREA.
4. WIRELESS ACCESS POINT. COORDINATE EXACT REQUIREMENTS WITH IT REPRESENTATIVE.



POWER PLAN

SCALE: 1/8" = 1'-0"

1

JENNIFER ROBINSON ARCHITECTS

8218 ROYAL GORGE DRIVE
SAN DIEGO, CA 92119
619.571.9114
mail@jrobinsonarchitects.com

ALL IDEAS, ARRANGEMENTS AND PLANS INDICATED OR REPRESENTED BY THIS DRAWING ARE OWNED BY, AND THE PROPERTY OF JENNIFER ROBINSON ARCHITECTS AND WERE CREATED, EVOLVED AND DEVELOPED FOR THE USE ON, AND IN CONNECTION WITH, THE SPECIFIED PROJECT. NONE OF SUCH IDEAS, DESIGNS, ARRANGEMENTS OR PLANS SHALL BE USED BY, OR DISCLOSED TO ANY PERSON, FIRM OR CORPORATION FOR ANY PURPOSE WHATSOEVER WITHOUT THE WRITTEN PERMISSION OF JENNIFER ROBINSON ARCHITECTS.

AKA HEADSTART, INC. DAY CARE
SITE & TENANT IMPROVEMENTS
698 W. MADISON AVENUE, EL CAJON, CA 92020

ISSUE	DATE
☐ PLANCHECK SUBMITTAL	20 MAR 2026
△ RECHECK DRAWINGS	22 JUNE 2026

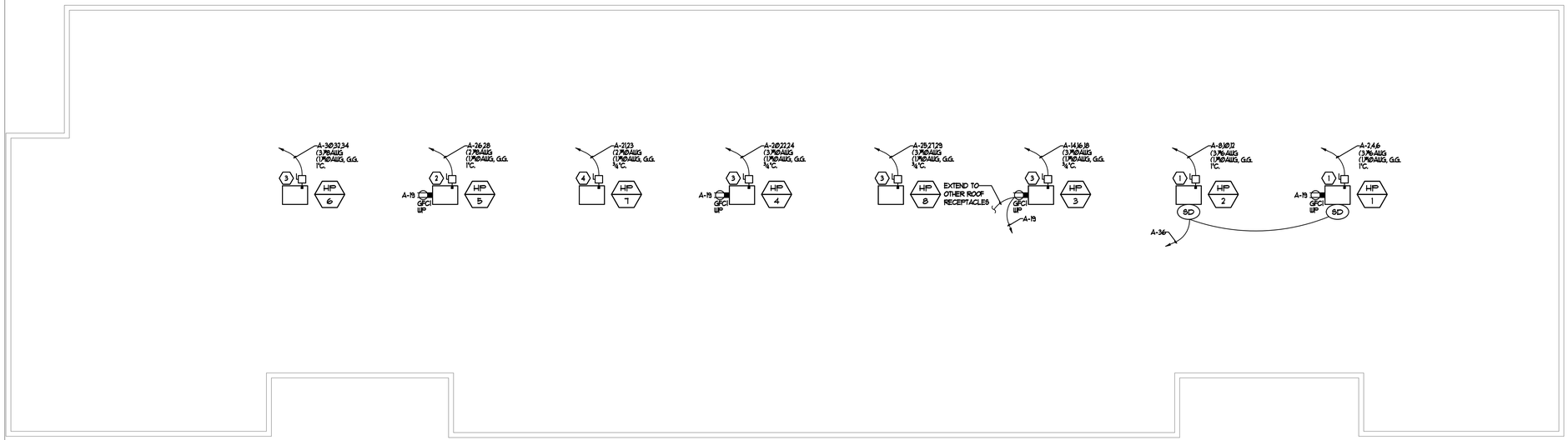
mpe consulting
ELECTRICAL ENGINEERS
10807 Thornmint Road, Ste 200
San Diego, CA 92127
p: 858.673.4445
www.mpeconsulting.com

REGISTERED PROFESSIONAL ENGINEER
DANIEL W. MAYFORCAS
E018377
Exp. 6-30-25
ELECTRICAL
STATE OF CALIFORNIA
25-356

POWER PLAN

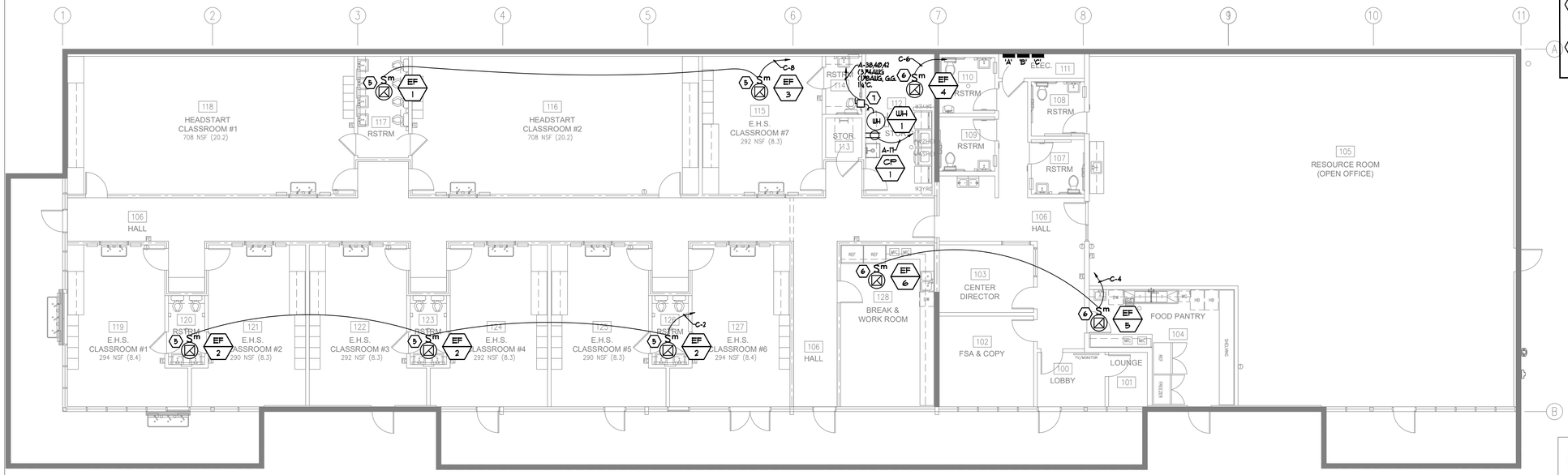
E301

SHEET OF –



ROOF PLAN

SCALE:	2
1/8" = 1'-0"	



MECHANICAL PLAN

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

MECHANICAL NOTES:

1. PROVIDE LIQUID TIGHT FINAL CONNECTION TO MECHANICAL UNIT.
2. COORDINATE FINAL LOCATION OF ALL ELECTRICAL FEED LOCATIONS WITH MECHANICAL. ROOF PENETRATIONS TO BE LOCALIZED TO FEED LOCATIONS. ROOF MOUNTED CONDUIT AND SLEEPER ARE NOT TO BE INSTALLED.
3. ALL STARTERS ARE FULL VOLTAGE, NON-REVERSING UNLESS NOTED OTHERWISE. STARTERS TO BE PROVIDED WITH H-O-A, AND 24V CONTROL TRANSFORMER.
4. COORDINATE FINAL CONTROL POWER AND CONDUIT REQUIREMENTS WITH MECHANICAL CONTRACTOR.
5. PROVIDE ROOF PENETRATION AND FLASHING PER ARCHITECTURAL ROOFING DETAILS. COORDINATE ALL ROOF PENETRATIONS WITH GENERAL CONTRACTOR PRIOR TO ROUGH-IN.
6. COORDINATE EXACT WEIGHT OF ALL ELECTRICAL EQUIPMENT OVER 500LBS WITH STRUCTURAL ENGINEER.

GENERAL NOTES:

1. ARCHITECT VERIFICATION CONTRACTOR TO REVIEW ARCHITECTURAL PLANS AND CASEWORK ELEVATIONS FOR ALL FINAL DEVICE AND FIXTURE TYPE REQUIREMENTS, FINAL SWITCH LOCATIONS, AND FINAL OUTLET PLACEMENTS. ANY DISCREPANCIES SHOULD BE BROUGHT TO THE ATTENTION OF THE ARCHITECT AND ENGINEER PRIOR TO ROUGH-IN.
2. PROVIDE 12@V CONNECTION TO DOOR HARDWARE/CONTROLLER AS REQUIRED. COORDINATE FINAL REQUIREMENTS WITH HARDWARE AND SECURITY VENDORS.
3. ALL EXPOSED/SURFACE MOUNTED ELECTRICAL JUNCTION BOXES TO BE CAST TYPE.
4. IF RELOCATING ANY ELECTRICAL PANELS, INTERCEPT AND EXTEND EXISTING BRANCH CIRCUITS AS NECESSARY.
5. CONTRACTOR TO PROVIDE GFCI PROTECTION WHERE RECEPTACLES ARE INSTALLED WITHIN 6FT OF THE OUTSIDE EDGE OF ANY SINK. PROVIDE A GFCI CIRCUIT BREAKER AT PANEL BOARD FOR ALL CIRCUITS WHERE LAB SINKS ARE LOCATED AT BENCH TOP, IN ACCORDANCE WITH NEC 210.8.
6. CONTRACTOR SHALL COORDINATE ALL ELECTRICAL EQUIPMENT INCLUDING DEVICES, CONDUIT RUNS, ETC. WITH ARCHITECTURAL, MECHANICAL, STRUCTURAL, PLUMBING, AND ALL APPROPRIATE DISCIPLINES PRIOR TO INSTALLATION.
7. REFER TO SINGLE LINE DIAGRAMS AND PANEL SCHEDULES FOR FURTHER ELECTRICAL SYSTEM INFORMATION.
8. REFER TO MECHANICAL AND PLUMBING PLANS FOR FINAL LOCATIONS OF EQUIPMENT.
9. REFER TO MECHANICAL AND PLUMBING EQUIPMENT CONNECTION SCHEDULE FOR POWER CONNECTION REQUIREMENTS AND MAXIMUM OVERCURRENT PROTECTION DEVICE.
10. ALL ELECTRICAL EQUIPMENT, DEVICES, AND BOXES SHALL BE IN WEATHERPROOF TYPE ENCLOSURE FOR OUTDOOR APPLICATIONS.
11. ALL MULTIWIRE BRANCH CIRCUITS (INCLUDING SYSTEM FURNITURE) SHALL BE INSTALLED WITH DEDICATED NEUTRALS ROUTED IN HOMERUN TO THE PANEL FOR EACH CIRCUIT BEING UTILIZED OR HANDLE TIES IF ACCEPTABLE WITH LOCAL AHJ PER NEC 210.4(D).

SHEET NOTES:

1. NEMA 3R 60A 3P FUSED DISCONNECT. COORDINATE FINAL FUSE SIZE AND REQUIREMENTS WITH MECHANICAL.
2. NEMA 3R 60A 2P FUSED DISCONNECT. COORDINATE FINAL FUSE SIZE AND REQUIREMENTS WITH MECHANICAL.
3. NEMA 3R 30A 3P FUSED DISCONNECT. COORDINATE FINAL FUSE SIZE AND REQUIREMENTS WITH MECHANICAL.
4. NEMA 3R 30A 2P FUSED DISCONNECT. COORDINATE FINAL FUSE SIZE AND REQUIREMENTS WITH MECHANICAL.
5. NEMA 1 TOGGLE FRACTIONAL HORSEPOWER RATED MANUAL MOTOR STARTER, PROVIDE WITH THERMAL OVERLOADS. PROVIDE CONTROL CONNECTION TO LIGHT SWITCH. COORDINATE FINAL CONTROL CONNECTION AND REQUIREMENTS WITH MECHANICAL.
6. NEMA 1 TOGGLE FRACTIONAL HORSEPOWER RATED MANUAL MOTOR STARTER, PROVIDE WITH THERMAL OVERLOADS. PROVIDE CONTROL CONNECTION TO INTERLOCK WITH BUILDING TIMECLOCK. COORDINATE FINAL CONTROL CONNECTION AND REQUIREMENTS WITH MECHANICAL.
7. NEMA 1 @@A 3P FUSED DISCONNECT. COORDINATE FINAL FUSE SIZE AND REQUIREMENTS WITH PLUMBING.

JENNIFER ROBINSON ARCHITECTS

8218 ROYAL GORGE DRIVE
SAN DIEGO, CA 92119
619.571.9114
mail@jrobinsonarchitects.com

ALL IDEAS, ARRANGEMENTS AND PLANS INDICATED OR REPRESENTED BY THIS DRAWING ARE OWNED BY, AND THE PROPERTY OF JENNIFER ROBINSON ARCHITECTS AND WERE CREATED, EVOLVED AND DEVELOPED FOR THE USE ON, AND IN CONNECTION WITH, THE SPECIFIED PROJECT. NONE OF SUCH IDEAS, DESIGNS, ARRANGEMENTS OR PLANS SHALL BE USED BY, OR DISCLOSED TO ANY PERSON, FIRM OR CORPORATION FOR ANY PURPOSE WHATSOEVER WITHOUT THE WRITTEN PERMISSION OF JENNIFER ROBINSON ARCHITECTS.

AKA HEADSTART
ADMINISTRATIVE OFFICE TI

698 W. MADISON AVENUE, EL CAJON, CA 92020

ISSUE	DATE
☑ PLANCHECK DRAWINGS	18 MAR 2026

mpe consulting
ELECTRICAL ENGINEERS

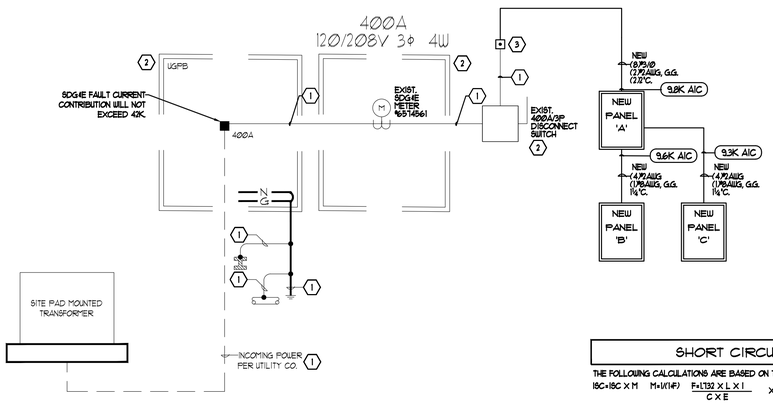
10807 Thormint Road, Ste 200
San Diego, CA 92127
p: 858.673.4445
www.mpeconsulting.com

REGISTERED PROFESSIONAL ENGINEER
DANIEL W. MAYOREAS
E018377
Exp. 6-30-28
ELECTRICAL
STATE OF CALIFORNIA
24-308

MECHANICAL
PLAN

E401

SHEET OF –



SHORT CIRCUIT CALCULATIONS

THE FOLLOWING CALCULATIONS ARE BASED ON THE POINT BY METHOD WHERE:

ISC=ISC X M M=1/(1+F) $F=\frac{1.732 \times L \times I}{C \times E}$ XFMR: $\frac{IP(SCA) \times Vp \times \%Z}{100{,}000 \times KVA}$ $\frac{IS(SCA) \times Vp}{Vs}$ $\frac{Vp \times M \times IS(SCA)}{Vs}$

Fault Point	Panel Name	Source I (amps)	Conduit Type	WIRE SIZE CU	C Value	Set(S) of Conductor	E (volts)	Length	XFMR KVA	XFMR Z	F	M	ISC	VD
1	PANEL 'A'	42000	M	3/0	13923	1	208	130			3.26546003	0.2344413	9847	1.77%
2	PANEL 'B'	9847	M	2	6044	1	208	2			0.027131481	0.97358519	9586	0.02%
3	PANEL 'C'	9847	M	2	6044	1	208	4			0.054262963	0.94852995	9340	0.04%

PANEL: NEW — 208Y/120V 3PH 4W — AIC RATING: 42KAIC
BUS RATING: 400A — MOUNTING TYPE: SURFACE
MAIN C.B. RATING: MLO — PANEL A — NEMA TYPE: NEMA 1
PANEL FEED RATING: 400A — FEED SOURCE: METER/MAIN
SHUNT TRIP MAIN: NO — ISOLATED GND BUS: NO

LOAD	A	B	C	A	P	R	L	M			M	L	R	P	A	A	B	C	LOAD
EGRESS LIGHTING	1000			20	1				1	A - -	2				3	45	3152			HP-1
LIGHTING		1790		20	1				3	- B -	4				-	-		3152		----------
LIGHTING			1534	20	1				5	- - C	6				-	-			3152	----------
SPARE				20	1				7	A - -	8				3	45	3152			HP-2
SPARE				20	1				9	- B -	10				-	-		3152		----------
SPARE				20	1				11	- - C	12				-	-			3152	----------
SPARE				20	1				13	A - -	14				3	30	2295			HP-3
SPARE				20	1				15	- B -	16				-	-		2295		----------
CP-1			200	20	1				17	- - C	18				-	-			2295	----------
ROOF RECEPTS	720			20	1				19	A - -	20				3	30	2295			HP-4
HP-7		1750		30	2				21	- B -	22				-	-		2295		----------
----------			1750	-	-				23	- - C	24				-	-			2295	----------
HP-8	2295			30	3				25	A - -	26				2	40	2413			HP-5
----------		2295		-	-				27	- B -	28				-	-		2413		----------
----------			2295	-	-				29	- - C	30				3	30			2295	HP-6
PANEL 'B'	11720			100	3				31	A - -	32				-	-	2295			----------
----------		11540		-	-				33	- B -	34				-	-		2295		----------
----------			10540	-	-				35	- - C	36				1	20			200	DUCT SMOKE DETECTS
PANEL 'C'	2776			100	3				37	A - -	38				3	70	6000			WH-1
----------		1525		-	-				39	- B -	40				-	-		6000		----------
----------			1387	-	-				41	- - C	42				-	-			6000	----------
	18511	18900	17706														21602	21602	19389	

NOTES:

PHASE SUBTOTALS:
A - 40113 VA
B - 40502 VA
C - 37095 VA
THROUGH FEED LOAD: 0 VA

SUBTOTAL= 117710 VA
X 0.25LCL= 4500 VA
RECEPT DIVERSITY= 0 VA
TOTAL= 122210 VA

RECEPT: 0 VA
LTG: 0 VA
MOTOR/MISC: 0 VA
340 AMPS

PANEL: NEW — 208Y/120V 3PH 4W — AIC RATING: 42KAIC
BUS RATING: 125A — MOUNTING TYPE: SURFACE
MAIN C.B. RATING: MLO — PANEL B — NEMA TYPE: NEMA 1
PANEL FEED RATING: 100A — FEED SOURCE: PANEL 'A'
SHUNT TRIP MAIN: NO — ISOLATED GND BUS: NO

LOAD	A	B	C	A	P	R	L	M			M	L	R	P	A	A	B	C	LOAD
CLASSROOM #1	720			20	1	4			1	A - -	2			1	1	20	700			BREAK REFRIGERATOR
CLASSROOM #1		720		20	1	4			3	- B -	4			1	1	20		700		BREAK REFRIGERATOR
CLASSROOM #2			720	20	1	4			5	- - C	6			1	1	20			1000	BREAK MICROWAVE
CLASSROOM #2	720			20	1	4			7	A - -	8			1	1	20	1000			BREAK MICROWAVE
EHS CLASSROOM #1		900		20	1	5			9	- B -	10			1	1	20		700		BREAK DISHWASH
EHS CLASSROOM #2			900	20	1	5			11	- - C	12			1	1	20			700	BREAK GARBAGE
EHS CLASSROOM #3	900			20	1	5			13	A - -	14			4	1	20	720			BREAK CONV RECEPTS
EHS CLASSROOM #4		900		20	1	5			15	- B -	16			3	1	20		560		CENTER DIRECTOR
EHS CLASSROOM #5			900	20	1	5			17	- - C	18			4	1	20			720	FAS & COPY
EHS CLASSROOM #6	900			20	1	5			19	A - -	20	24		1	1	20	1000			FAS & COPY PRINTER
EHS CLASSROOM #7		900		20	1	5			21	- B -	22			3	1	20		560		LOBBY/ LOUNGE
STORAGE			360	20	1	2			23	- - C	24			1	1	20			700	FOOD DISHWASH
DRYER	1500			30	2				25	A - -	26			1	1	20	1000			FOOD MICROWAVE
----------		1500		-	-				27	- B -	28			1	1	20		1000		FOOD MICROWAVE
WASHER			200	20	1	1			29	- - C	30			1	1	20			1440	FOOD HOT BOX
WASHER	200			20	1	1			31	A - -	32			1	1	20	1440			FOOD HOT BOX
DRYER		1500		30	2				33	- B -	34			1	1	20		700		FOOD REFRIGERATOR
----------			1500	-	-				35	- - C	36			1	1	20			700	FOOD FREEZER
RESTROOMS	720			20	1	4			37	A - -	38			1	1	20	200			FOOD SHELVE CONV
COORIDOR		900		20	1	5			39	- B -	40				1	20				SPARE
DRINK FOUNTAIN			700	20	1	1			41	- - C	42				1	20				SPARE
	5660	7320	5280														6060	4220	5260	

NOTES:

PHASE SUBTOTALS:
A - 11720 VA
B - 11540 VA
C - 10540 VA
THROUGH FEED LOAD: 0 VA

SUBTOTAL= 33800 VA
X 0.25LCL= 8450 VA
RECEPT DIVERSITY= -8900 VA
TOTAL= 33350 VA

RECEPT: 27800 VA
LTG: 0 VA
MOTOR/MISC: 1000 VA
93 AMPS

PANEL: NEW — 208Y/120V 3PH 4W — AIC RATING: 42KAIC
BUS RATING: 125A — MOUNTING TYPE: SURFACE
MAIN C.B. RATING: MLO — PANEL C — NEMA TYPE: NEMA 1
PANEL FEED RATING: 100A — FEED SOURCE: PANEL 'A'
SHUNT TRIP MAIN: NO — ISOLATED GND BUS: NO

LOAD	A	B	C	A	P	R	L	M			M	L	R	P	A	A	B	C	LOAD
RESOURCE COUNTER	500			20	1				1	A - -	2			1	20	1207				EF-2 (QTY 3)
RESOURCE RECEPTS		720		20	1				3	- B -	4			1	20		805			EF-5, EF-6
RESOURCE RECEPTS			720	20	1				5	- - C	6			1	20			667		EF-4
SPARE				20	1				7	A - -	8			1	20	1069				EF-1, EF-3
SPARE				20	1				9	- B -	10			1	20					SPARE
SPARE				20	1				11	- - C	12			1	20					SPARE
SPARE				20	1				13	A - -	14			1	20					SPARE
SPARE				20	1				15	- B -	16			1	20					SPARE
SPARE				20	1				17	- - C	18			1	20					SPARE
SPARE				20	1				19	A - -	20			1	20					SPARE
SPARE				20	1				21	- B -	22			1	20					SPARE
SPARE				20	1				23	- - C	24			1	20					SPARE
SPARE				20	1				25	A - -	26			1	20					SPARE
SPARE				20	1				27	- B -	28			1	20					SPARE
SPARE				20	1				29	- - C	30			1	20					SPARE
SPARE				20	1				31	A - -	32			1	20					SPARE
SPARE				20	1				33	- B -	34			1	20					SPARE
SPARE				20	1				35	- - C	36			1	20					SPARE
SPARE				20	1				37	A - -	38			1	20					SPARE
SPARE				20	1				39	- B -	40			1	20					SPARE
SPARE				20	1				41	- - C	42			1	20					SPARE
	500	720	720													2276	805	667		

NOTES:

PHASE SUBTOTALS:
A - 2276 VA
B - 1525 VA
C - 1387 VA
THROUGH FEED LOAD: 0 VA

SUBTOTAL= 5688 VA
X 0.25LCL= 1422 VA
RECEPT DIVERSITY= 0 VA
TOTAL= 7110 VA

RECEPT: 0 VA
LTG: 0 VA
MOTOR/MISC: 0 VA
20 AMPS

SHEET NOTES:

1. EXISTING FEEDER TO REMAIN, NO NEW WORK.
2. EXISTING ELECTRICAL LOAD TO REMAIN, NO NEW WORK.
3. INTERCEPT AND EXTEND EXISTING FEEDER TO NEW PANEL LOCATION.

SINGLELINE NOTES

1. ALL FUSES SHALL BE CURRENT LIMITING CLASS RK1, TYPE LPS-RK-SP. (FAST ACTION 600V)
2. ALL CONDUCTORS FEEDING PANELBOARDS SHALL BE COPPER TYPE 'THWN' WITH EMT CONDUIT. BRANCH CIRCUIT AND FEEDER CABLES IN ALL SIZES SHALL HAVE 'THW', 'THWN' OR 'THHN' INSULATION WITH EMT CONDUIT. AC CABLE IS NOT ALLOWED TO BE INSTALLED. AN EQUIPMENT GROUND CONDUCTOR SHALL BE IN ALL FLEXIBLE CONDUITS. 'XHHW' TO BE USED AT ALL EXTERIOR LOCATION PANEL FEEDERS.
3. ALL EQUIPMENT SHOWN IS EXISTING UNLESS NOTED OTHERWISE.
4. ALL TERMINATION LUGS OF PANELS AND SWITCHBOARDS TO BE RATED TO ACCEPT 75 DEGREE CONDUCTORS.
5. ALL FUSES SHALL BE CURRENT LIMITING CLASS RK1, TYPE LPS-RK-SP. (FAST ACTION 600V)
6. ALL CONDUCTORS FEEDING PANELBOARDS SHALL BE COPPER TYPE 'THWN' WITH EMT CONDUIT. BRANCH CIRCUIT AND FEEDER CABLES IN ALL SIZES SHALL HAVE 'THW', 'THWN' OR 'THHN' INSULATION WITH EMT CONDUIT. AC CABLE IS NOT ALLOWED TO BE INSTALLED. AN EQUIPMENT GROUND CONDUCTOR SHALL BE IN ALL FLEXIBLE CONDUITS. 'XHHW' TO BE USED AT ALL EXTERIOR LOCATION PANEL FEEDERS.
7. ALL TRANSFORMERS TO BE PROVIDED TO MEET CALIFORNIA ENERGY COMMISSION APPLIANCE EFFICIENCY REGULATION REQUIREMENTS FOR DRY TYPE 'EE' TRANSFORMERS, PER TABLE 'I' MINIMUM EFFICIENCY RATINGS.
8. EACH TRANSFORMER SHALL USE THE WATER PIPE ELECTRODE WITHIN 5' OF WHERE THE WATER SERVICE ENTERS THE BUILDING. (I.E. BUILDING STEEL, COLD WATER PIPE.)
9. ALL TRANSFORMER SECONDARY FEEDER TERMINATIONS SHALL BE MADE WITHIN 10 CABLE FEET OF TRANSFORMER.
10. ALL MAIN SERVICE CIRCUIT BREAKERS SHALL BE 100% RATED.
11. IF RELOCATING ANY ELECTRICAL PANELS, INTERCEPT AND EXTEND EXISTING BRANCH CIRCUITS AS NECESSARY.
12. PROVIDE COMPLETE ARC FLASH ANALYSIS AND ARC FLASH LABELING WITH PROPER PPE VALUES AND EXACT APPROACH BOUNDARIES. STANDARD ARC FLASH WARNING LABELS WILL NOT BE ACCEPTED UNLESS CALCULATED SPECIFICALLY FOR THIS SYSTEM. STUDY AND LABELING WILL INCLUDE ALL SWITCHBOARDS, TRANSFORMERS, PANELS AND FUSE SWITCHES FOR EXISTING AND NEW SYSTEM.

mpe consulting
ELECTRICAL ENGINEERS
10807 Thornmint Road, Ste 200
San Diego, CA 92127
p: 858.673.4445
www.mpeconsulting.com

REGISTERED PROFESSIONAL ENGINEER — DANIEL W. MAYORGAS — E018377 Exp. 6-30-28 — ELECTRICAL — STATE OF CALIFORNIA
25-356

JENNIFER ROBINSON ARCHITECTS
8218 ROYAL GORGE DRIVE
SAN DIEGO, CA 92119
619.571.9114
mail@jrobinsonarchitects.com

ALL IDEAS, ARRANGEMENTS AND PLANS INDICATED OR REPRESENTED BY THIS DRAWING ARE OWNED BY, AND THE PROPERTY OF JENNIFER ROBINSON ARCHITECTS AND WERE CREATED, EVOLVED AND DEVELOPED FOR THE USE ON, AND IN CONNECTION WITH, THE SPECIFIED PROJECT. NONE OF SUCH IDEAS, DESIGNS, ARRANGEMENTS OR PLANS SHALL BE USED BY, OR DISCLOSED TO ANY PERSON, FIRM OR CORPORATION FOR ANY PURPOSE WHATSOEVER WITHOUT THE WRITTEN PERMISSION OF JENNIFER ROBINSON ARCHITECTS.

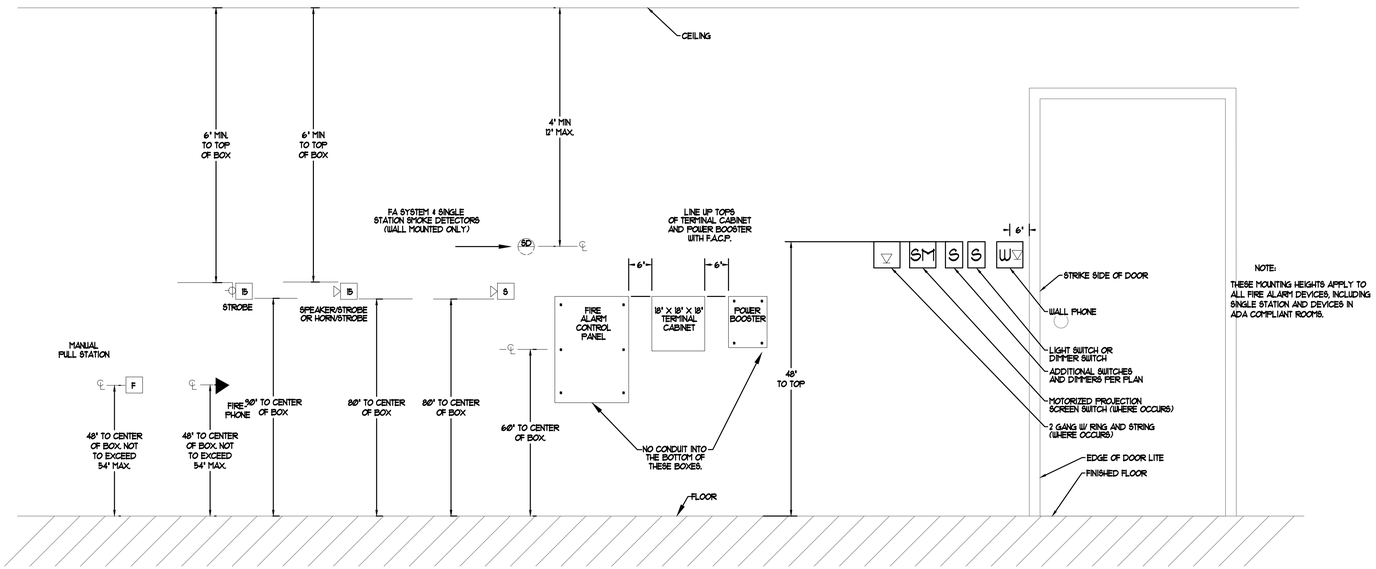
AKA HEADSTART, INC. DAY CARE
SITE & TENANT IMPROVEMENTS
698 W. MADISON AVENUE, EL CAJON, CA 92020

ISSUE	DATE
☐ PLANCHECK SUBMITTAL	20 MAR 2026
⚠ RECHECK DRAWINGS	22 JUNE 2026

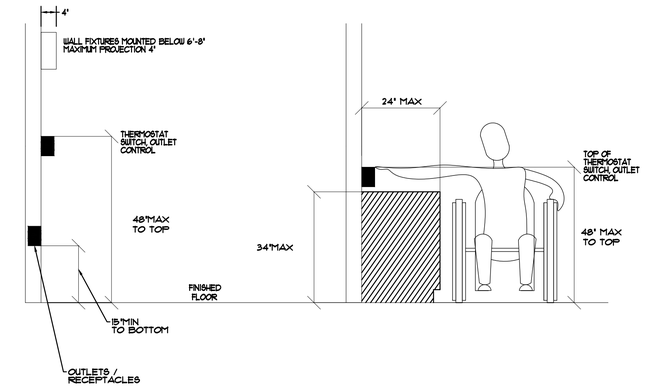
SINGLELINE AND PANEL SCHEDULES

E501

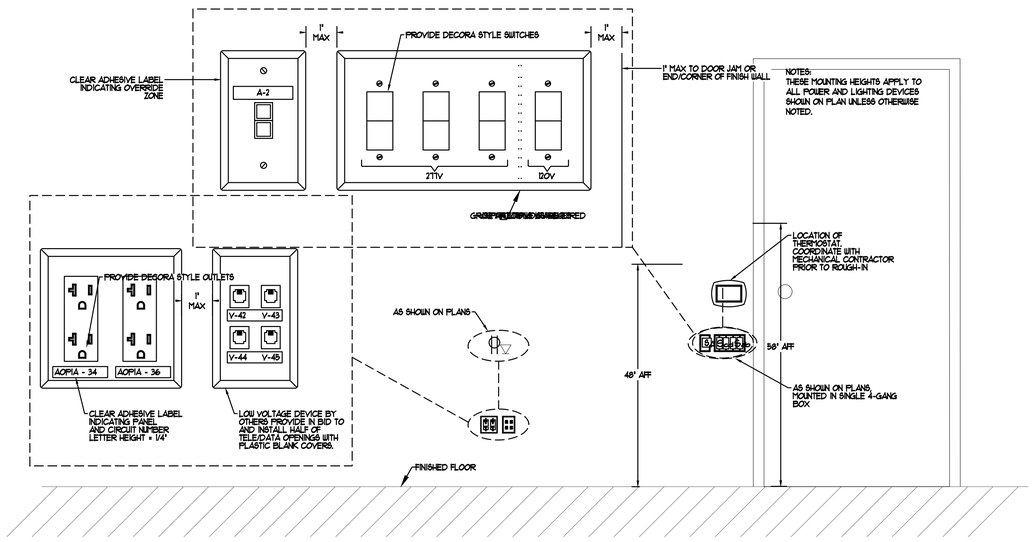
SHEET OF –



TYPICAL MOUNTING HEIGHTS | 3



ADA MOUNTING HEIGHT DETAIL | 1



TYPICAL SWITCH AND RECEPTACLE W/ LOW VOLTAGE MOUNTING HEIGHT DETAIL | 2

DETAIL SHEET

JENNIFER ROBINSON ARCHITECTS
8218 ROYAL GORGE DRIVE
SAN DIEGO, CA 92119
619.571.9114
mail@jrobinsonarchitects.com

ALL IDEAS, ARRANGEMENTS AND PLANS INDICATED OR REPRESENTED BY THIS DRAWING ARE OWNED BY, AND THE PROPERTY OF JENNIFER ROBINSON ARCHITECTS AND WERE CREATED, EVOLVED AND DEVELOPED FOR THE USE ON, AND IN CONNECTION WITH, THE SPECIFIED PROJECT. NONE OF SUCH IDEAS, DESIGNS, ARRANGEMENTS OR PLANS SHALL BE USED BY, OR DISCLOSED TO ANY PERSON, FIRM OR CORPORATION FOR ANY PURPOSE WHATSOEVER WITHOUT THE WRITTEN PERMISSION OF JENNIFER ROBINSON ARCHITECTS.

AKA HEADSTART, INC. DAY CARE
SITE & TENANT IMPROVEMENTS
698 W. MADISON AVENUE, EL CAJON, CA 92020

ISSUE	DATE
☐ PLANCHECK SUBMITTAL	20 MAR 2026
△ RECHECK DRAWINGS	22 JUNE 2026

mpe consulting
ELECTRICAL ENGINEERS
10807 Thornmint Road, Ste 200
San Diego, CA 92127
p: 858.673.4445
www.mpeconsulting.com

REGISTERED PROFESSIONAL ENGINEER
DANIEL N. MAYORGA
E018377
Exp. 6-30-28
ELECTRICAL
STATE OF CALIFORNIA
25-356

DETAIL SHEET
E601
SHEET OF –

STATE OF CALIFORNIA
Indoor Lighting
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-LTI-E
This document is used to demonstrate compliance with requirements in §110.9, §110.12(c), §130.0, §130.1, §140.6 and §141.0(b)2 for indoor lighting scopes using the prescriptive path for nonresidential and hotel/motel occupancies. It is also used to document compliance with requirements in §160.5, §170.2(e) and §180.2(b)4 for indoor lighting scopes using the prescriptive path for multifamily occupancies. Multifamily includes dormitory and senior living facilities.		
Project Name: AKA HEADSTTART INC DAYCARE	**Report Page:**	**(Page 1 of 8)**
Project Address: 698 W MADISON AVE	**Date Prepared:**	6/23/2026

A. GENERAL INFORMATION

01	Project Location (city)	EL CAJON	04 Total Conditioned Floor Area (ft²)	9,378
02	Climate Zone	10	05 Total Unconditioned Floor Area (ft²)	0
03	Occupancy Types Within Project (select all that apply):		06 # of Stories (Habitable Above Grade)	1

● Classroom ● Office ● Support Areas ● All Other Occupancies

B. PROJECT SCOPE

This table includes any lighting systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in §140.6 / §170.2(e) or §141.0(b)2 / §180.2(b)4 for alterations.

Scope of Work	Conditioned Spaces		Unconditioned Spaces	
01	02	03	04	05
My Project Consists of (check all that apply):	Calculation Method	Area (ft²)	Calculation Method	Area (ft²)
☐ New Lighting System				
☐ New Lighting System - Parking Garage				
☒ Altered Lighting System	Area Category Method	9378	Area Category Method	0
Total Area of Work (ft²)	9378		0	

STATE OF CALIFORNIA
Indoor Lighting
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-LTI-E
Project Name: AKA HEADSTTART INC DAYCARE	**Report Page:**	**(Page 2 of 8)**
	Date Prepared:	6/23/2026

C. COMPLIANCE RESULTS

If any cell on this table says "DOES NOT COMPLY" or "COMPLIES with Exceptional Conditions" refer to Table D. for guidance.

Lighting in conditioned and unconditioned spaces must not be combined for compliance per §140.6(b)1 /§170.2(e)	Allowed Lighting Power per §140.6(b) /§170.2(e) (Watts)					Adjusted Lighting Power per §140.6(a) /§170.2(e) (Watts)				Compliance Results
	01	02	03		04	05	06		07	08
	Complete Building §140.6(c)1	Area Category §140.6(c)2 /§170.2(e)4	Area Category Additional §140.6(c)2G / §170.2(e)4Av (+)	=	**Total Allowed** (Watts)	≥ Total Designed (Watts)	Adjustments PAF Lighting Control Credits §140.6(a)2 /§170.2(e)1B (-)	=	**Total Adjusted** (Watts) *Includes Adjustments	**05 must be >= 08 §140.6 /§170.2(e)**
	(See Table I)	(See Table I)	(See Table J)			(See Table F)	(See Table P)			
Conditioned		5,420.5	0	=	5,421	≥ 4,297	0	=	4297	COMPLIES
Unconditioned				=		≥		=		
Controls Compliance (See Table H for Details)										COMPLIES
One-for-one Luminaire Alterations Compliance (See Table Q for Details)										

D. EXCEPTIONAL CONDITIONS

This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.

E. ADDITIONAL REMARKS

This table includes remarks made by the permit applicant to the Authority Having Jurisdiction.

STATE OF CALIFORNIA
Indoor Lighting
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-LTI-E
Project Name: AKA HEADSTTART INC DAYCARE	**Report Page:**	**(Page 3 of 8)**
	Date Prepared:	6/23/2026

F. INDOOR LIGHTING FIXTURE SCHEDULE

This table includes all planned permanent and portable lighting other than dwelling unit/ hotel/ motel room lighting. Multifamily dwelling unit and hotel/motel room lighting is documented in Table T. If using Table T to document lighting in multifamily common use areas providing shared provisions for living, eating, cooking or sanitation, those luminaires are not included here.

Designed Wattage: Conditioned Spaces

01	02	03	04	05	06	07	08	09	10	
Name or Item Tag	Complete Luminaire Description	Modular (Track) Fixture	Small Aperture & Color Change [3]	Watts per luminaire [2]	How is Wattage determined	Total Number of Luminaires	Excluded per §140.6(a)3 / §170.2(e)2C	Design Watts	Field Inspector Pass	Field Inspector Fail
F1/F1E	F1/F1E - 38W LED	No	NA	38	Mfr. Spec	104	No	3,952	☐	☐
F2	F2 - 22.5W LED	No	NA	22.5	Mfr. Spec	10	No	225	☐	☐
F3	F3 - 30W LED	No	NA	30	Mfr. Spec	4	No	120	☐	☐
						Total Designed Watts: CONDITIONED SPACES		4,297		

[1] *FOOTNOTE: Design Watts for small aperture and color changing luminaires which qualify per §140.6(a)4B /§170.2(e)2D is adjusted to be 75% /80% of their rated wattage. Table F automatically makes this adjustment, the permit applicant should enter full rated wattage in column 05.*

[2] *Authority Having Jurisdiction may ask for Luminaire cut sheets to confirm wattage used for compliance per §130.0(c) /§160.5(b). Wattage used must be the maximum rated for the luminaire, not the lamp.*

G. MODULAR LIGHTING SYSTEMS

This section does not apply to this project.

H. INDOOR LIGHTING CONTROLS (Not including PAFs)

This table includes lighting controls for conditioned and unconditioned spaces.

Building Level Controls

01	02	03	
		Field Inspector	
		Pass	Fail
Mandatory Demand Response §110.12(c)	Shut-off controls §130.1(c) / §160.5(b)4C	☐	☐
Required >= 4,000W subject to multilevel	See Area/Space Level Controls (Column B)		

STATE OF CALIFORNIA
Indoor Lighting
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-LTI-E
Project Name: AKA HEADSTTART INC DAYCARE	**Report Page:**	**(Page 4 of 8)**
	Date Prepared:	6/23/2026

H. INDOOR LIGHTING CONTROLS (Not including PAFs)

Area Level Controls

04	05	06	07	08	09	10	11	12	
Area Description	Complete Building or Area Category Primary Function Area	Manual Controls §130.1(a) /§160.5(b)4A	Multi-Level Controls §130.1(b) /§160.5(b)4B	Shut-Off Controls §130.1(c) //§160.5(b)4C	Primary/Sky lit Daylighting §130.1(d) /§160.5(b)4D	Secondary Daylighting §130.1(d) /§160.5(b)4D	Interlocked Systems §140.6(a)1/ §170.2(e)2A	Field Inspector Pass	Field Inspector Fail
OFFICE/OPEN	Office (>250 square feet)	Readily Accessible and located in the same space.	Dimmer	Occupancy Sensor	Included	Included	No	☐	☐
LOBBY/LOUNGE	Lounge	Readily Accessible and located in the same space.	Dimmer	Occupancy Sensor	Included	Included	No	☐	☐
BREAK ROOM	Lounge	Readily Accessible and located in the same space.	Dimmer	Occupancy Sensor	Included	Included	No	☐	☐
STORAGE/JAN	All Other Space Types	Readily Accessible and located in the same space.	Dimmer	Occupancy Sensor	Included	Included	No	☐	☐
CORRIDOR	Corridor	Readily Accessible and located in the same space.	Dimmer	Occupancy Sensor	Included	Included	No	☐	☐
CLASSROOM	Classroom, Lecture, or Training Vocational	Readily Accessible and located in the same space.	Dimmer	Occupancy Sensor	Included	Included	No	☐	☐

STATE OF CALIFORNIA
Indoor Lighting
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-LTI-E
Project Name: AKA HEADSTTART INC DAYCARE	**Report Page:**	**(Page 5 of 8)**
	Date Prepared:	6/23/2026

H. INDOOR LIGHTING CONTROLS (Not including PAFs)

ELECTRICAL ROOM	Electrical, Mechanical, or Telephone Room	Readily Accessible and located in the same space.	Dimmer	Occupancy Sensor	Included	Included	No	☐	☐
RESTROOM	Restroom	Readily Accessible and located in the same space.	Dimmer	Occupancy Sensor	Included	Included	No	☐	☐
FOOD PREP	Kitchen/ Food Preparation	Readily Accessible and located in the same space.	Dimmer	Occupancy Sensor	Included	Included	No	☐	☐
							13		
							Plan Sheet Showing Daylit Zones:		

I. LIGHTING POWER ALLOWANCE: COMPLETE BUILDING OR AREA CATEGORY METHODS

Each area complying using the Complete Building or Area Category Methods per §140.6(b) are included in this table. Column 06 indicates if additional lighting power allowances per §140.6(c) or adjustments per §140.6(a) are being used .

Conditioned Spaces

01	02	03	04	05	06	
Area Description	Complete Building or Area Category Primary Function Area	Allowed Density (W/ft²)	Area (ft²)	Allowed Wattage (Watts)	Additional Allowance / Adjustment Area Category/PAF	PAF
OFFICE/OPEN	Office (>250 square feet)	0.6	2,786	1,671.6	No	No
LOBBY/LOUNGE	Lounge	0.55	111	61	No	No
BREAK ROOM	Lounge	0.55	284	156.2	No	No
STORAGE/JAN	Hospital - Medical Supply	0.55	231	127	No	No
CORRIDOR	Corridor	0.4	1,328	531.2	No	No
CLASSROOM	Classroom, Lecture, or Training Vocational	0.6	4,100	2,460	No	No

STATE OF CALIFORNIA
Indoor Lighting
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-LTI-E
Project Name: AKA HEADSTTART INC DAYCARE	**Report Page:**	**(Page 6 of 8)**
	Date Prepared:	6/23/2026

I. LIGHTING POWER ALLOWANCE: COMPLETE BUILDING OR AREA CATEGORY METHODS

ELECTRICAL ROOM	Electrical, Mechanical, or Telephone Room	0.4	40	16	No	No
RESTROOM	Restroom	0.65	252	163.8	No	No
FOOD PREP	Kitchen/ Food Preparation	0.95	246	233.7	No	No
		TOTALS:	9,378	5,420.5	See Tables J, or P for detail	

J. ADDITIONAL ALLOWANCE: AREA CATEGORY METHOD QUALIFYING LIGHTING SYSTEM

This section does not apply to this project.

P. POWER ADJUSTMENT: LIGHTING CONTROL CREDIT (POWER ADJUSTMENT FACTOR (PAF))

This section does not apply to this project.

Q. ONE-FOR-ONE LUMINAIRE ALTERATIONS

This section does not apply to this project.

R. 80% LIGHTING POWER FOR ALL ALTERATIONS - CONTROLS EXCEPTIONS

This section does not apply to this project.

S. DAYLIGHT DESIGN POWER ADJUSTMENT FACTOR (PAF)

This section does not apply to this project.

T. DWELLING UNIT LIGHTING

This section does not apply to this project.

STATE OF CALIFORNIA
Indoor Lighting
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-LTI-E
Project Name: AKA HEADSTTART INC DAYCARE	**Report Page:**	**(Page 7 of 8)**
	Date Prepared:	6/23/2026

U. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Selections have been made based on information provided in this document. If any selections have been changed by permit applicant, an explanation should be included in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and can be found online

Form/Title
NRCI-LTI-E - Must be submitted for all buildings

V. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

Selections have been made based on information provided in this document. If any selections have been changed by the permit applicant, an explanation should be included in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and any with "-A" in the form name must be completed through an Acceptance Test Technician Certification Provider (ATTCP). For more information visit: http://www.energy.ca.gov/title24/attcp/providers.html

Form/Title	Systems/Spaces To Be Field Verified
NRCA-LTI-02-A - Must be submitted for occupancy sensors and automatic time switch controls.	OFFICE/OPEN; LOBBY/LOUNGE; BREAK ROOM; STORAGE/JAN; CORRIDOR; CLASSROOM; ELECTRICAL ROOM; RESTROOM; FOOD PREP;
NRCA-LTI-03-A - Must be submitted for daylight responsive controls.	OFFICE/OPEN; LOBBY/LOUNGE; BREAK ROOM; STORAGE/JAN; CORRIDOR; CLASSROOM; ELECTRICAL ROOM; RESTROOM; FOOD PREP;
NRCA-LTI-04-A - Must be submitted for demand responsive lighting controls.	Whole Building Demand Response;

STATE OF CALIFORNIA
Indoor Lighting
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-LTI-E
Project Name: AKA HEADSTTART INC DAYCARE	**Report Page:**	**(Page 8 of 8)**
Project Address: 698 W MADISON AVE	**Date Prepared:**	6/23/2026

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name:	Documentation Author Signature:
Company: MPE Consulting	Signature Date: 2026-06-23
Address:	CEA/HERS/CCC Certification Identification (If applicable):
City/State/Zip:	Phone:

RESPONSIBLE PERSON'S DECLARATION STATEMENT

I certify the following under penalty of perjury, under the laws of the State of California:

1. The information provided on this Certificate of Compliance is true and correct.
2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer)
3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.

Responsible Person Name: DAN MAYORGAS	Responsible Person Signature:
Responsible Person Scope:	
Company: MPE CONSULTING INC.	Date Signed: 2026-06-23
Address: 10807 THORNMINT RD SUITE 200	License: E018377
City/State/Zip: SAN DIEGO CA 92127	Phone: 858-643-4445

JENNIFER ROBINSON ARCHITECTS
8218 ROYAL GORGE DRIVE
SAN DIEGO, CA 92119
619.571.9114
mail@jrobinsonarchitects.com

ALL IDEAS, ARRANGEMENTS AND PLANS INDICATED OR REPRESENTED BY THIS DRAWING ARE OWNED BY, AND THE PROPERTY OF JENNIFER ROBINSON ARCHITECTS AND WERE CREATED, EVOLVED AND DEVELOPED FOR THE USE ON, AND IN CONNECTION WITH, THE SPECIFIED PROJECT. NONE OF SUCH IDEAS, DESIGNS, ARRANGEMENTS OR PLANS SHALL BE USED BY, OR DISCLOSED TO ANY PERSON, FIRM OR CORPORATION FOR ANY PURPOSE WHATSOEVER WITHOUT THE WRITTEN PERMISSION OF JENNIFER ROBINSON ARCHITECTS.

AKA HEADSTART, INC. DAY CARE
SITE & TENANT IMPROVEMENTS
698 W. MADISON AVENUE, EL CAJON, CA 92020

ISSUE	DATE
☐ PLANCHECK SUBMITTAL	20 MAR 2026
⚠ RECHECK DRAWINGS	22 JUNE 2026

mpe consulting
ELECTRICAL ENGINEERS
10807 Thornmint Road, Ste 200
San Diego, CA 92127
p: 858.673.4445
www.mpeconsulting.com

REGISTERED PROFESSIONAL ENGINEER
DANIEL W. MAYORGAS
E018377
Exp. 6-30-28
ELECTRICAL
STATE OF CALIFORNIA
25-356

TITLE 24
–
ET01
SHEET OF –

GRADING AND DRAINAGE PLANS FOR (AKA HEADSTART)

GENERAL NOTES

1. CONTRACTOR AGREES TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONSDURING THE COURSE OF CONSTRUCTION OF THIS PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY, THAT THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS, AND THAT THE CONTRACTOR SHALL DEFEND, INDEMNIFY AND HOLD THE CITY OF EL CAJON AND THE ENGINEER OF WORK HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING FOR LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE CITY OF EL CAJON OR THE ENGINEER.
2. THE CONTRACTOR SHALL DESIGN, CONSTRUCT, AND MAINTAIN ALL SAFETY DEVICES, INCLUDING SHORING AND BARRICADING, AND SHALL BE SOLELY RESPONSIBLE FOR CONFORMING TO ALL LOCAL, STATE AND FEDERAL SAFETY AND HEALTH STANDARDS, LAWS, AND REGULATIONS.
3. ANY CONTRACTOR PERFORMING WORK ON THE PROJECT SHALL FAMILIARIZE HIMSELF WITH JOBSITE CONDITIONS AND SHALL BE SOLELY RESPONSIBLE FOR ANY DAMAGE TO EXISTING FACILITIES OR IMPROVEMENTS RESULTING DIRECTLY OR INDIRECTLY FROM HIS/HER OPERATIONS.
4. ALL OPERATIONS CONDUCTED ON THE PREMISES, INCLUDING RUNNING OF TRUCKS AND EQUIPMENT, SHALL BE LIMITED TO A PERIOD BETWEEN 7:00 A.M. AND 6:00 P.M., MONDAY THROUGH FRIDAY. NO WORK SHALL BE DONE ON SATURDAYS, SUNDAYS OR HOLIDAYS UNLESS OTHERWISE APPROVED BY THE CITY ENGINEER. CONSTRUCTION NOISE SHALL BE CONTROLLED AND LIMITS ADHERED TO PER EL CAJON MUNICIPAL CODE.
5. ALL OPERATIONS CONDUCTED IN THE PUBLIC RIGHT-OF-WAY, INCLUDING RUNNING OF TRUCKS AND EQUIPMENT, SHALL BE LIMITED TO A PERIOD BETWEEN 7:00 A.M. AND 5:00 P.M. ON RESIDENTIAL STREETS, AND BETWEEN 8:30 A.M. AND 3:30 P.M. ON ALL OTHER STREETS, MONDAY THROUGH FRIDAY. NO WORK SHALL BE DONE ON SATURDAYS, SUNDAYS, AND LEGAL HOLIDAYS UNLESS OTHERWISE APPROVED BY THE CITY ENGINEER. NOISE CONTROL REQUIREMENTS SHALL BE COMPLIED WITH.
6. EXISTING STREETS SHALL BE KEPT FREE OF DIRT AND DEBRIS, AND SHALL BE MAINTAINED IN GOOD CONDITION. DUST SHALL BE CONTROLLED SO THAT IT IS NOT A NUISANCE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPAIR OF ANY STREET OR PROPERTY DAMAGED, PUBLIC OR PRIVATE, AS A RESULT OF THE WORK.
7. THE FOLLOWING NOTE SHALL BE INCLUDED ON ALL PLANS WITH PROPOSED WALL CONSTRUCTION. "THE BUILDING DEPARTMENT SHALL APPROVE ALL WALL CONSTRUCTION. ALL WALLS SHALL BE CONSTRUCTED PER A SEPARATE BUILDING PERMIT ISSUED BY THE BUILDING DEPARTMENT."
8. IF THERE IS A CONFLICT BETWEEN THIS PLAN AND OTHER PLANS, EVEN IF THE OTHER PLAN IS DATED AFTER THIS PLAN, DO NOT WORK UNTIL THE CONFLICT IS RESOLVED AND REVIEWED BY THE ENGINEER OF RECORD AND THE CITY ENGINEER.
9. ACCESS FOR FIRE AND OTHER EMERGENCY VEHICLES SHALL BE MAINTAINED AT ALL TIMES DURING PROJECT CONSTRUCTION.
10. THE CONTRACTOR SHALL MAINTAIN ADEQUATE DUST CONTROL MEASURES THROUGHOUT THE DURATION OF THE PROJECT CONSTRUCTION PERIOD. POLLUTANTS, SUCH AS CEMENT, ASPHALT CONCRETE, AND DEBRIS SHALL NOT BE ALLOWED IN THE CITY'S STORM DRAIN SYSTEM.
11. THE CONTRACTOR SHALL NOTIFY THE CITY ENGINEER AND RESPECTIVE UTILITY OWNERS AT LEAST TWO WORKING DAYS PRIOR TO STARTING WORK AND SHALL SUBMIT REQUESTS FOR INSPECTION 24 HOURS IN ADVANCE, AND IN ACCORDANCE WITH ANY PROVISIONS SET FORTH IN THE CONTRACT SPECIFICATIONS. ANY WORK PERFORMED WITHOUT THE BENEFIT OF INSPECTION SHALL BE SUBJECT TO REJECTION AND REMOVAL AT THE CONTRACTOR'S EXPENSE. FOR INSPECTION, CALL 619-441-1662.
12. THE CONTRACTOR SHALL MAINTAIN A SET OF RED-LINED DRAWINGS ON WHICH ALL CHANGES OR VARIATIONS IN THE WORK, INCLUDING UTILITIES, SHALL BE RECORDED FROM.
13. ALL STREET PAVEMENT AND STRIPING DAMAGED DURING CONSTRUCTION SHALL BE REMOVED AND REPLACED TO THE SATISFACTION OF THE CITY ENGINEER. ALL REPLACEMENT/REMEDIATION SHALL BE AT THE CONTRACTOR'S EXPENSE.
14. MATERIAL OR DEBRIS SHALL NOT BE STORED OR REMAIN IN THE PUBLIC RIGHT-OF-WAY WITHOUT PRIOR APPROVAL FROM THE CITY ENGINEER.
15. PER OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) GUIDELINES, THE CONTRACTOR IS REQUIRED TO OBTAIN A PERMIT FROM OSHA PRIOR TO COMMENCING CONSTRUCTION ON TRENCHES OR EXCAVATIONS THAT ARE 5 FEET OR DEEPER AND INTO WHICH A PERSON IS REQUIRED TO DESCEND.
16. EXISTING MONUMENTS DISTURBED OR DESTROYED BY THE CONTRACTOR'S OPERATIONS SHALL BE REPLACED BY A LICENSED CIVIL ENGINEER OR LAND SURVEYOR, AND CORNER RECORDS SHALL BE RECORDED WITH THE SAN DIEGO COUNTY RECORDER'S OFFICE IN CONFORMANCE WITH THE CALIFORNIA LAND SURVEYOR'S ACT. ALL WORK DESCRIBED SHALL BE AT THE CONTRACTOR'S EXPENSE.
17. PRIOR TO COMMENCEMENT OF ANY TYPE OF CONSTRUCTION, THE CONTRACTOR SHALL PROVIDE A 'HAUL ROUTE' MAP AND RELATED TRAFFIC CONTROL MAP, OF WHICH WILL BE REVIEWED AND APPROVED BY THE CITY ENGINEER OR HIS/HER DESIGNEE.

BASIS OF BEARING

THE BASIS OF BEARINGS FOR THIS SURVEY IS THE CALIFORNIA COORDINATE SYSTEM, CCS83, ZONE 6, EPOCH 2017.50 AND IS DETERMINED BY G.P.S. MEASUREMENTS TAKEN ON SEPTEMBER 16, 2025, AND WERE ESTABLISHED FROM G.P.S. STATION 1049 AND G.P.S. STATION 1043 PER RECORD OF SURVEY NO. 24647.
THE BEARING FROM G.P.S. STATION 1049 AND G.P.S. STATION 1043 = S 57° 11' 14" E.
QUOTED BEARINGS FROM REFERENCE MAPS OR DEEDS MAY OR MAY NOT BE IN TERMS OF SAID SYSTEM.
THE COMBINED SCALE FACTOR AT G.P.S. STATION 1049 IS 0.999975485.
GRID DISTANCE = GROUND DISTANCE X COMBINED SCALE FACTOR.
ELEVATION AT G.P.S. STATION 1049 IS 546.17 (NAVD88).

BENCHMARK INFORMATION

THE BASIS OF ELEVATIONS FOR THIS SURVEY IS THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88). THIS IS DETERMINED LOCALLY BY OBSERVATION OF A CITY OF EL CAJON BENCHMARK, BEING A BRASS CAP IN TOP OF CURB AT THE EASTERLY PCR ON THE SOUTHEAST CORNER OF THE INTERSECTION OF JOHNSON AVE. AND MADISON AVE., ACCORDING TO CITY OF EL CAJON BENCHMARKS MAP.
- ELEVATION = 415.19' (NAVD88)

SOURCE OF TOPOGRAPHY

THE SOURCE OF TOPOGRAPHY IS GROUND TOPO ON SEPTEMBER 16, 2025. PERFORMED BY LATITUDE 33.

GRADING AND GEOTECHNICAL SPECIFICATIONS

1. ALL GRADING SHALL BE DONE UNDER OBSERVATION AND TESTING OF A QUALIFIED CIVIL ENGINEER OR GEOTECHNICAL ENGINEER AND, IF REQUIRED, AN ENGINEERING GEOLOGIST. ALL GRADING MUST BE PERFORMED IN ACCORDANCE WITH APPLICABLE CITY ORDINANCES AND THE RECOMMENDATIONS SET FORTH IN THE SOILS REPORTS OR GEOTECHNICAL INVESTIGATIONS ENTITLED:
   "GEOTECHNICAL INVESTIGATION PROPOSED AKA HEADSTART PLAYGROUND 698 W. MADISON AVENUE EL CAJON, CA 92020", PROJECT NO. 25-039R.I PREPARED BY SKYLINE GEOTECHNICAL INC. NOVEMEMBER 16,2025
2. ALL FILL MATERIAL SHALL BE COMPACTED TO A MINIMUM OF 90% MAXIMUM DRY DENSITY.
3. IF THE GEOTECHNICAL OR SOILS CONSULTANT OF RECORD IS CHANGED FOR THE PROJECT, THE WORK SHALL BE STOPPED UNTIL A REPLACEMENT HAS AGREED IN WRITING TO ACCEPT THE RESPONSIBILITY WITHIN THE AREA OF THEIR TECHNICAL COMPETENCE FOR APPROVAL UPON COMPLETION OF THE WORK. IT SHALL BE THE DUTY OF THE PERMITTEE TO NOTIFY THE CITY ENGINEER IN WRITING OF SUCH CHANGE PRIOR TO THE RECOMMENCEMENT OF GRADING.
4. THESE GRADING PLANS HAVE BEEN RECEIVED BY THE UNDERSIGNED AND FOUND TO BE IN CONFORMANCE WITH THE RECOMMENDATIONS AND SPECIFICATIONS CONTAINED IN THE REFERENCED GEOTECHNICAL REPORT(S) PREPARED FOR THIS PROJECT.

OWNER'S CERTIFICATE

1. I APPROVE THIS PLAN TO BE FOLLOWED IN THE CONSTRUCTION OF THIS PROJECT. I UNDERSTAND THAT ANY CHANGES MUST BE APPROVED BY THE ENGINEER WHO PREPARED THESE PLANS AND REVIEWED BY THE CITY ENGINEER.
2. IF THERE IS A CONFLICT BETWEEN THIS PLAN AND OTHER PLANS, EVEN IF THE OTHER PLAN IS DATED AFTER THIS PLAN, I WILL PERFORM NO WORK UNTIL THE CONFLICT IS RESOLVED AND HAS BEEN REVIEWED BY THE ENGINEER AND THE CITY ENGINEER.
3. I UNDERSTAND THAT I MUST USE THE EXISTING SEWER LATERAL (UNLESS PROPOSING NEW CONNECTION).
4. I WILL REQUIRE A PLUMBING CONTRACTOR TO VERIFY THE LOCATION AND DEPTH OF THE POINT OF CONNECTION TO THE EXISTING SEWER, BEFORE STARTING ANY WORK ON THE PROJECT.
5. I UNDERSTAND THAT IF THE WORK OF THIS PLAN IS NOT COMPLETED IN CONFORMANCE THEREWITH, THE CITY WILL HAVE THE RIGHT TO WITHHOLD ACCEPTANCE OF THE SUBDIVISION OR IMPROVEMENTS AND OCCUPANCY OF BUILDINGS CONSTRUCTED ON THE SITE OF THIS DEVELOPMENT.

HAMANN CONSTRUCTION & PROPERTY MANAGEMENT
NAME SIGNATURE

(619) 440-7424
PHONE DATE

DECLARATION OF RESPONSIBLE CHARGE

I HEREBY DECLARE THAT I AM THE ENGINEER OF WORK FOR THIS PROJECT THAT I HAVE EXERCISED RESPONSIBLE CHARGE OVER THE DESIGN OF THE PROJECT AS DEFINED IN SECTION 6703 OF THE BUSINESS AND PROFESSIONS CODE, AND THAT THE DESIGN IS CONSISTENT WITH CURRENT STANDARDS.

I UNDERSTAND THAT THE CHECK(S) OF PROJECT DRAWINGS AND SPECIFICATIONS BY THE CITY OF EL CAJON ARE CONFINED TO A REVIEW ONLY AND DOES NOT RELIEVE ME, AS ENGINEER OF WORK, OF MY RESPONSIBILITIES FOR PROJECT DESIGN.

JUSTIN R. GILES R.C.E. NO. 83540 EXP. 03-31-2027

PROFESSIONAL ENGINEER JUSTIN ROBERT GILES CIVIL STATE OF CALIFORNIA
PRELIMINARY NOT FOR CONSTRUCTION

SOILS/GEOLOGIC ENGINEER'S CERTIFICATE

I, RODNEY J. JONES, REGISTERED CIVIL ENGINEER IN THE STATE OF CALIFORNIA, HAVE REVIEWED THESE PLANS AND AM SATISFIED THAT THESE PLANS ARE CONSISTENT WITH THE RECOMMENDATIONS MADE IN OUR SOILS/GEOLOGIC REPORT, PROJECT NUMBER 25-119C.I, DATED NOVEMBER 16, 2025. IF GRADING IS NOT COMPLETED BY NOVEMBER 16, 2028, A REVIEW BY THE SOILS/GEOLOGIC ENGINEER WILL BE REQUIRED.

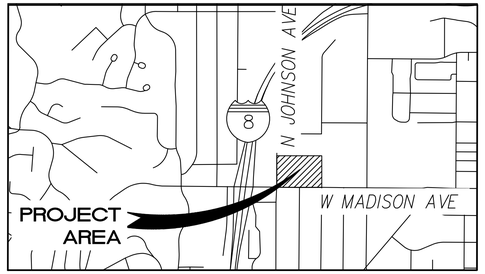
RODNEY J. JONES SEPTEMBER 30, 2027 RCE NO. 3205

AS-BUILT

I CERTIFY THAT I OBSERVED THE CONSTRUCTION, AND THE WORK SHOWN ON THIS PLAN HAS BEEN DONE IN CONFORMANCE WITH MY DESIGN, RECOMMENDATIONS OR REQUIREMENTS AND ANY APPROVED CHANGES.

JUSTIN GILES DATE:

RODNEY J. JONES DATE:



VICINITY MAP
NO SCALE

SCOPE OF WORK

THE WORK CONSISTS OF THE FOLLOWING:
INTERIOR IMPROVEMENTS TO EXISTING CHILD CARE CENTER, SPECIFICALLY 7,400 SQ FT OF EXISTING PAVED PARKING TO NEW PLAY AREA (POURED-IN-PLACE SURFACING) ALONG WITH UPDATED LANDSCAPING, FLATWORK AND ANCILLARY IMPROVEMENTS.

SITE ADDRESS

698 WEST MADISON AVE, EL CAJON CA 92020

ASSESSOR PARCEL NUMBER

482-260-12-00

EARTHWORK QUANTITIES

THE FOLLOWING EARTHWORK QUANTITIES HAVE BEEN ESTIMATED FOR THE PROJECT.

CUT = 0 CY
FILL = 500 CY
NET = 500 IMPORT

SHEET INDEX

SHEET NUMBER	SHEET TITLE
1	TITLE SHEET
2	NOTES
3	IMPROVEMENT PLAN
4	EROSION CONTROL PLAN

STANDARD SPECIFICATIONS + STANDARD DRAWINGS

1. SAN DIEGO REGIONAL STANDARD DRAWINGS WITH APPENDIX 'A' TRAFFIC CONTROL PLANS (LATEST EDITION).
2. STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, "GREENBOOK", INCLUDING REGIONAL SUPPLEMENT AMENDMENTS (LATEST EDITIONS).
3. CITY OF EL CAJON STANDARD DRAWINGS (LATEST EDITION).
4. SAN DIEGO WATER AGENCY STANDARDS, "WAS" (LATEST EDITION).

UTILITY NOTES

THE CONTRACTOR SHALL TAKE DUE PRECAUTIONARY MEASURES TO PROTECT ANY EXISTING UTILITIES OR STRUCTURES LOCATED AT OR ADJACENT TO THE WORK SITE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONTACT THE FOLLOWING UTILITY OWNERS FOR VERIFICATION AND LOCATION PRIOR TO ANY EXCAVATION OR COMMENCEMENT OF WORK. SECTION 4216/4217 OF THE GOVERNMENT CODE REQUIRES A DIG ALERT IDENTIFICATION NUMBER BE ISSUED PRIOR TO EXCAVATION. FOR DIG ALERT, DIAL 811 AT LEAST TWO WORKING DAYS BEFORE COMMENCING WORK.

SAN DIEGO GAS AND ELECTRIC	(877) 789-9866
HELIX WATER DISTRICT	(619) 596-3860
PADRE DAM MUNICIPAL WATER DISTRICT	(619) 448-3111
AT&T	(619) 266-4613
COX COMMUNICATIONS	(619) 263-9251
EL CAJON POLICE DEPARTMENT	(619) 579-3311
HEARTLAND FIRE AND RESCUE	(619) 667-1355
EL CAJON PUBLIC WORKS, SEWER, TRAFFIC	(619) 441-1653
CALTRANS	(619) 688-6699

WORK TO BE DONE

THE WORK TO BE DONE CONSISTS OF THE IMPROVEMENTS SHOWN ON THESE PLANS IN ACCORDANCE WITH THE STANDARDS AND SPECIFICATIONS FOR THE CITY OF EL CAJON, AND TO THE SATISFACTION OF THE CITY ENGINEER.

LEGEND

DESCRIPTION	SYMBOL	STANDARD	QTY
EXISTING CONDITIONS			
EXISTING CONCRETE			348 SQF
EXISTING CONCRETE WALL			C-12A
EXISTING CATCH BASIN			1
EXISTING CONTOUR	XXX		
EXISTING SIDEWALK UNDERDRAIN		D-27	26 LF
PROPOSED CONDITIONS			
PROPOSED FENCE			318 LF
CONCRETE			4,276 SQF
CATCH BASIN		D-07	2
CONCRETE WALL		C-12A	285 LF
ARTIFICIAL TURF		TURFHARBOR LIGHTHOUSE PET TURF	5,046 SQF
SAWCUT LIMIT			126 LF
PROPOSED CONTOUR	XXX		
LANDSCAPE			971 SQF
6" PVC STORM DRAIN		D-60	65 LF
6" CURB		G-01	254 LF
6" CURB & GUTTER		G-02	29 LF
CONCRETE SIDEWALK		G-07, G-09, G-10, G-11	150 SF
ADA RAMP		G-27A	1
TRUNCATED DOMES		G-30	1

STORMWATER MANAGEMENT NOTES

1. THE OWNER AND/OR THE OWNER'S CONTRACTOR SHALL BE RESPONSIBLE TO ESTABLISH A PLAN TO IMPLEMENT BEST MANAGEMENT PRACTICES TO ELIMINATE POLLUTANT DISCHARGE TO THE PUBLIC STORM DRAIN SYSTEM. SUCH PLANS SHALL BE SUBMITTED TO AND REVIEWED BY THE CITY ENGINEER PRIOR TO ANY SOIL DISTURBANCE, GRADING, CLEARING OF VEGETATIVE MATTER, AND/OR CONSTRUCTION ON THE SITE.
2. THE PLAN SHALL PROVIDE THAT NO SAND, SILT, OR DEBRIS SHALL BE ALLOWED TO ENTER THE STORM DRAIN SYSTEM INCLUDING PUBLIC STREETS.
3. THE OWNER AND/OR THE OWNER'S CONTRACTOR SHALL IMPLEMENT THE PLAN AND TAKE REMEDIAL AND PREVENTIVE ACTION IMMEDIATELY WHEN POLLUTANT DISCHARGE OCCURS AND/OR THE CITY ENGINEER OR THE BUILDING DIVISION DIRECTS.
4. THE ABOVE SHALL APPLY STARTING THE 1ST DAY OF GRADING AND/OR CONSTRUCTION AND SHALL REMAIN IN EFFECT UNTIL ALL GRADING AND/OR CONSTRUCTION WORK HAS BEEN COMPLETED.
5. THE PLAN SHALL BE IN CONFORMANCE WITH THE CITY OF EL CAJON STANDARD URBAN STORM WATER MITIGATION PLAN ORDINANCE (SUSMP) AND JURISDICTIONAL RUNOFF MANAGEMENT PROGRAM (JRMP). THIS ORDINANCE REQUIRES THE APPLICANT TO PROVIDE ADDITIONAL EROSION CONTROL MEASURES AND PERFORM FUTURE ONGOING MAINTENANCE EVEN AFTER COMPLETION OF THE PROJECT TO PREVENT, TREAT, OR LIMIT THE AMOUNT OF STORM WATER RUNOFF AND POLLUTION FROM THE PROPERTY.
6. THE CONTRACTOR SHALL COMPLY WITH THE CITY'S MUNICIPAL CODE CHAPTER 13.10 STORM WATER MANAGEMENT AND DISCHARGE CONTROL.
7. THE CONTRACTOR SHALL BE RESPONSIBLE TO ESTABLISH A PLAN TO IMPLEMENT BEST MANAGEMENT PRACTICES (BMPS) TO ELIMINATE SAND, SILT, CONCRETE WASH, DEBRIS OR POLLUTANT DISCHARGE TO THE PUBLIC STREETS AND STORM DRAIN SYSTEM. SUCH PLAN SHALL BE SUBMITTED AND REVIEWED BY THE CITY ENGINEER PRIOR TO COMMENCEMENT OF ANY GRADING, IMPROVEMENTS OR CONSTRUCTION ON THE SITE.
8. THE CONTRACTOR SHALL IMPLEMENT THE EROSION CONTROL MEASURES AND TAKE IMMEDIATE REMEDIAL AND PREVENTATIVE ACTION WHEN POLLUTANT DISCHARGE OCCURS AND/OR AS DIRECTED BY THE CITY ENGINEER. THE CONTRACTOR SHALL BE REQUIRED TO PLACE ADDITIONAL BMPS AS THE SITE CONDITIONS WARRANT.
9. PAVED AREAS SHALL BE SWEPT BY COMBINATION OF POWER BROOM AND/OR AIR VACUUM SWEEPERS.

PERVIOUS/IMPERVIOUS AREAS (SQ.FT.)	
EXISTING PERVIOUS	1,485
EXISTING IMPERVIOUS	7,400
PROPOSED PERVIOUS	6,017
PROPOSED IMPERVIOUS	3,838

latitude 33
PLANNING & ENGINEERING
10731 Treena Street, San Diego, CA 92131
Tel 858.751.0633

BUILDING OFFICIAL — BUILDING OFFICIAL / DATE
HEARTLAND FIRE — FIRE MARSHALL / DATE

CONSTRUCTION RECORD
DATE STARTED
CONTRACTOR
DATE COMPLETED
INSPECTOR

CITY OF EL CAJON
PUBLIC WORKS DEPARTMENT
CITY ENGINEER, 52765 DATE

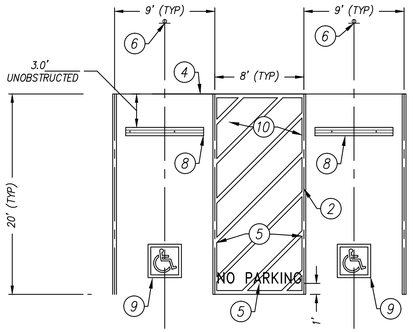
PLAN REVISION				
CHANGE	BY	DATE	APPROVAL	
				DESIGNED BY
				DRAWN BY
				CHECKED BY
				FIELD BOOK

AKA HEAD START
698 W MADISON AVENUE,
EL CAJON, CA 92020

TITLE SHEET

SHEET NO. 1 OF 4 SHEETS
ENGINEERING DIVISION JOB NO. 3886
DRAWING NO. 3561

GDP-2025-0013, MUP-2024-0005

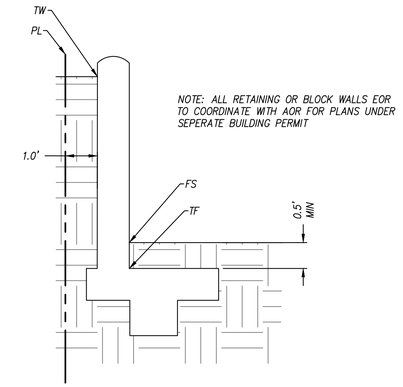


KEYNOTES:

1. 4" BLUE LINE.
2. 4" BLUE LINE BORDER.
3. 4" HATCHED DIAGONAL LINES AT 36" MAX ON-CENTER (SHOWN AT 30") PAINTED A CONTRASTING COLOR WITH THE PARKING SURFACE IN ACCESS AISLE, WHITE ON ASPHALT CONCRETE.
4. DRIVE AISLE EDGE TO ALIGN WITH FACE OF CURB.
5. "NO PARKING" STRIPING. REFLECTIVE WHITE COLOR. 12" LETTER HEIGHT.
6. ACCESSIBLE PARKING SIGN PER SIGN LEGEND R99C (CA)
8. WHEEL STOP PER DETAIL THIS SHEET.
9. ISA SYMBOL PER SAN DIEGO REGIONAL STANDARD DRAWINGS DETAIL M-29.
10. 2% MAX (1.5% DESIGN) SLOPE IN ANY DIRECTION IN STALL AND ACCESS AISLE. NO CHANGES IN LEVEL ACROSS ENTIRE STALL/ACCESS AISLE.

TYPICAL ADA STALL DETAIL 1

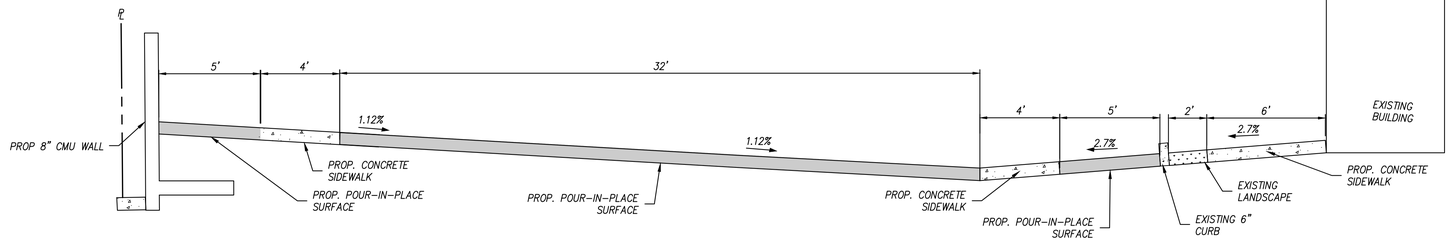
NTS



TYPICAL WALL SECTION 2

NTS

NOTE: ALL COMPONENTS OF THE WALL, INCLUDING FOOTING, DRAINAGE, ECT. SHALL BE CONTAINED WITHIN THE PROPERTY

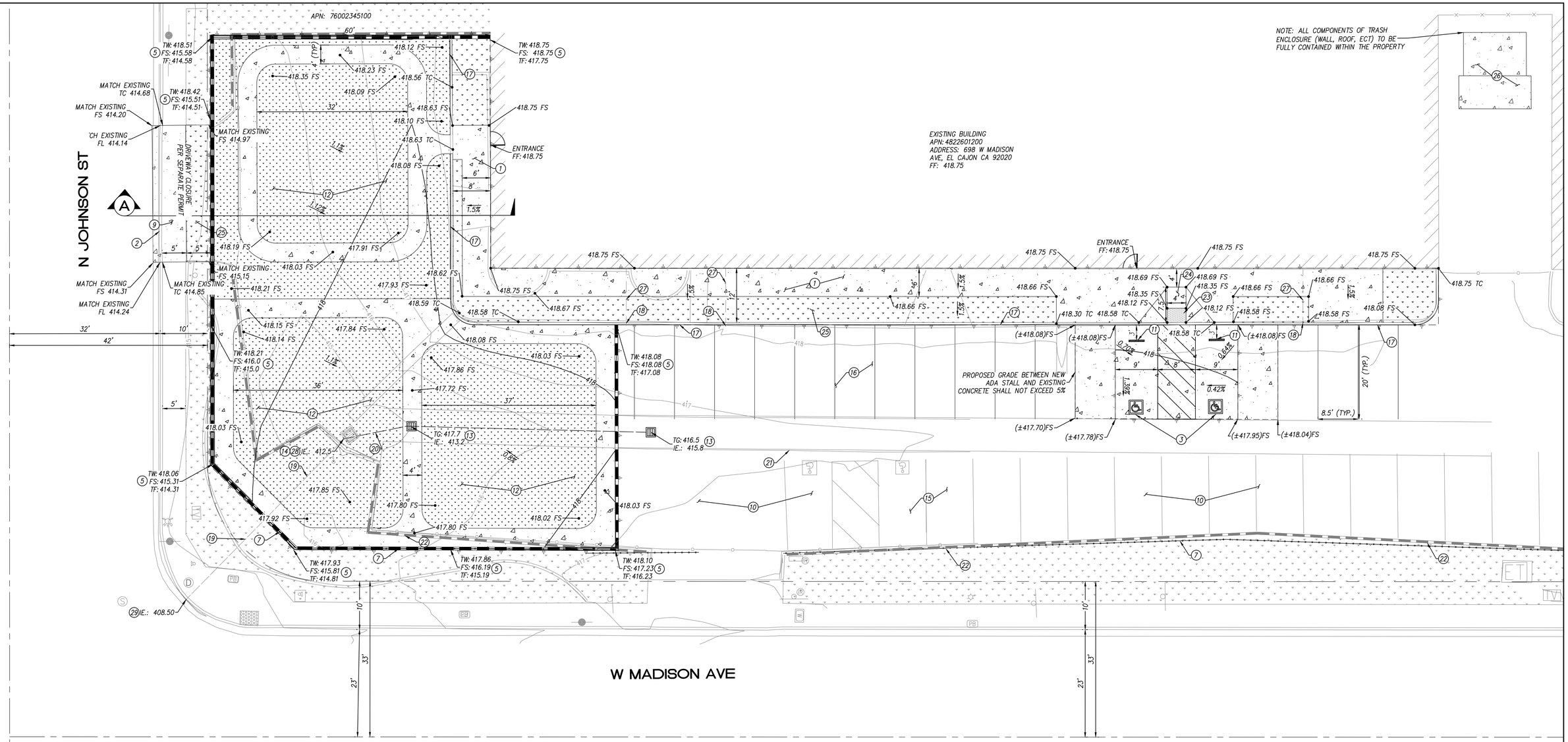


SECTION "A" SHEET 3

NO SCALE

latitude 33
PLANNING & ENGINEERING
10731 Treena Street, San Diego, CA 92131
Tel 858.751.0633

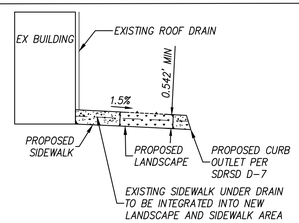
	HEAD START MADISON 698 W MADISON AVE EL CAJON, CA 92020	SHEET NO. 2 OF 4 SHEETS ENGINEERING DIVISION JOB NO. 3886
	NOTES	DRAWING NO. 3561



1. SITE PLAN ACCURATELY DISPLAYS ALL POTENTIAL EASEMENT AND PUBLIC ROW ENCROACHMENTS RELATED TO THIS PROJECT.
2. ALL STORM WATER RUNOFF FROM PROPOSED AND/OR REPLACED IMPERVIOUS AREAS SHALL BE ROUTED TO PERVIOUS SURFACES OR LANDSCAPING PRIOR TO REACHING THE PUBLIC DRAIN SYSTEM.
3. AN ENCROACHMENT PERMIT (EP) IS REQUIRED PRIOR TO ANY WORK IN THE PUBLIC RIGHT-OF-WAY. THE EP WILL BE ISSUED BY THE PRIVATE DEVELOPMENT DIVISION VIA THE PROJECT ASSISTANCE CENTER. TO APPLY FOR AN EP, PLEASE REGISTER TO PACO – PROJECT ASSISTANCE CENTER ONLINE. WWW.ELCAJON.GOV/PACO

CONSTRUCTION NOTES

1. PROPOSED CONCRETE SIDEWALK
2. PROPOSED 6" CURB AND GUTTER PER SDRSD G-2
3. PROPOSED ADA PARKING SPOT PER DETAIL 1
5. PROPOSED 8" WALL PER DETAIL 2. ALL RETAINING OR BLOCK WALLS EOR TO COORDINATE WITH AOR FOR PLANS UNDER SEPARATE BUILDING PERMIT.
7. PROPOSED FENCE PER ARCHITECTURAL
9. EXISTING DRIVEWAY TO BE REPLACED WITH SIDEWALK, LANDSCAPE, CURB AND GUTTER PER SDRSD G-2, G-7, G-9, G-10 & G-11
10. CONCRETE PARKING LOT TO BE REMOVED
11. PROPOSED 3' PARKING STOP
12. PROPOSED TURFHARBOR LIGHTHOUSE PET TURF
13. PROPOSED 2X2 CATCH BASIN WITH ADA GRATE COVER PER SDRSD D-07
14. EXISTING 1'X 1'CATCH BASIN TO BE REMOVED
15. EXISTING STRIPING TO BE REMOVED
16. PROPOSED PARKING
17. PROPOSED 6" CURB PER SDRSD G-01 +/-.1' TO MATCH EXISTING
18. EXISTING CURB OUTLET TO BE INTEGRATED INTO NEW CURB PER SDRSD D-27
19. EXISTING 6" PVC STORM DRAIN PER GP179
20. PROPOSED 6" PVC STORM DRAIN AT 5% PER SDRSD D-60
21. EXISTING CROSS GUTTER TO PROTECT IN PLACE
22. EXISTING WALL TO BE REMOVED
23. PROPOSED TRUNCATED DOMES PER SDRSD G-30
24. PROPOSED ADA RAMP PER SDRSD G-27A
25. PROPOSED LANDSCAPE AREA
26. PROPOSED TRASH AREA PER ARCHITECTURAL
27. EXISTING SIDEWALK DRAIN TO INTEGRATE INTO NEW SIDEWALK, LANDSCAPE & CURB PER DETAIL A
28. CONNECTION TO EXISTING 6" PVC OUTLET PIPE
29. EXISTING 7' "K-2" INLET



DETAIL A
NO SCALE

N

33

0 5 10 20 30
(IN FEET)
1 inch = 10 ft.

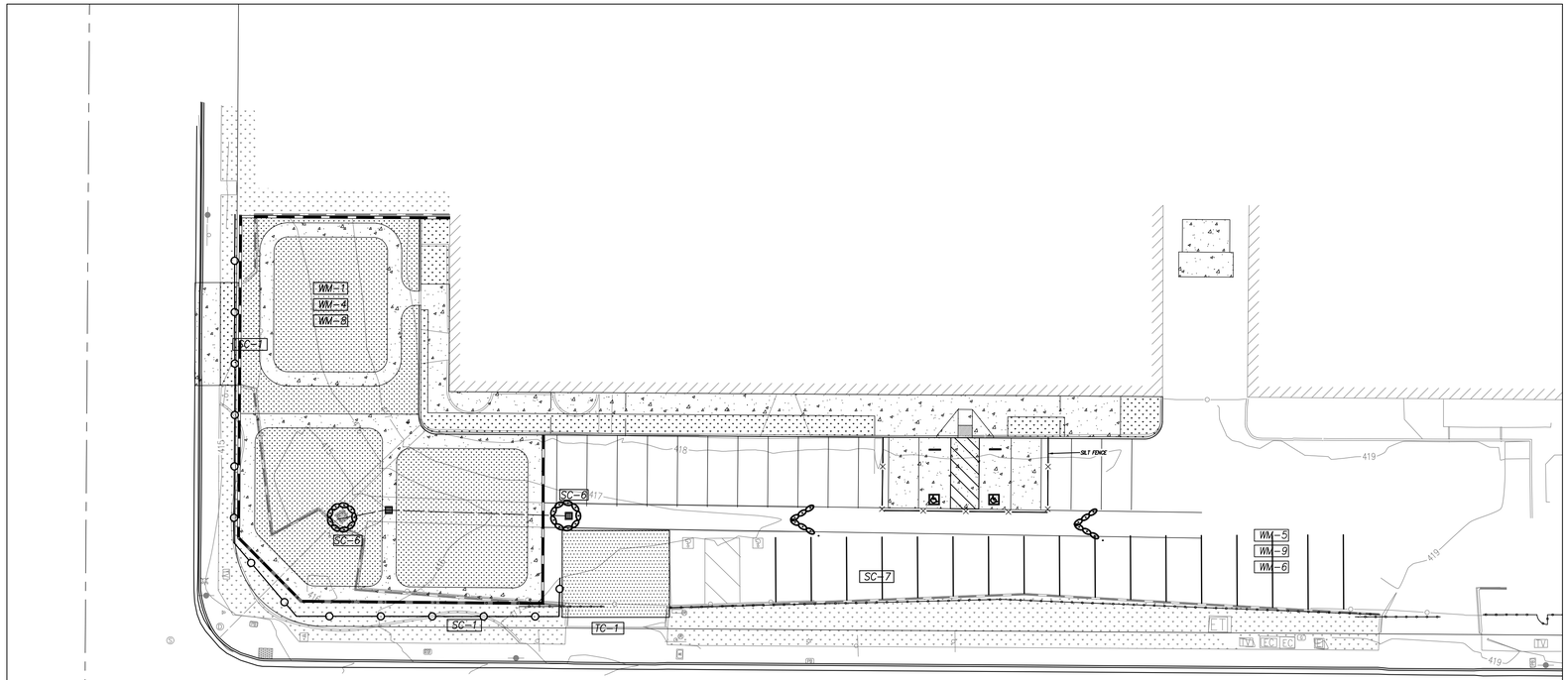
latitude 33
PLANNING & ENGINEERING
10731 Treena Street, San Diego, CA 92131
Tel 858.751.0633

HEAD START MADISON
698 W MADISON AVE
EL CAJON, CA 92020

IMPROVEMENT PLAN

SHEET NO. 3 OF 4 SHEETS
ENGINEERING DIVISION JOB NO. 3886
DRAWING NO. 3561

GDP-2025-0013, MUP-2024-0005



EROSION AND SEDIMENT CONTROL NOTES

PRIOR TO ANY SOIL DISTURBANCE, TEMPORARY SEDIMENT CONTROLS SHALL BE INSTALLED BY THE CONTRACTOR OR QUALIFIED PERSON(S) AS INDICATED BELOW:

1. ALL REQUIREMENTS OF THE CITY OF SAN DIEGO "STORM WATER STANDARDS MANUAL" MUST BE INCORPORATED INTO THE DESIGN AND CONSTRUCTION OF THE PROPOSED GRADING/IMPROVEMENTS CONSISTENT WITH THE APPROVED STORM WATER POLLUTION PREVENTION PLAN (SWPPP) AND/OR WATER POLLUTION CONTROL PLAN (WPCP) FOR CONSTRUCTION LEVEL BMPS AND, IF APPLICABLE, THE STORM WATER QUALITY MANAGEMENT PLAN (SWQMP) FOR POST-CONSTRUCTION BMPS.

2. THE CONTRACTOR SHALL INSTALL AND MAINTAIN ALL STORM DRAIN INLET PROTECTION. INLET PROTECTION IN THE PUBLIC RIGHTOF-WAY MUST BE TEMPORARILY REMOVED PRIOR TO A RAIN EVENT TO ENSURE NO FLOODING OCCURS AND REINSTALLED AFTER RAIN IS OVER.

3. ALL CONSTRUCTION BMPS SHALL INSTALLED AND PROPERLY MAINTAINED THROUGHOUT THE DURATION OF CONSTRUCTION.

4. THE CONTRACTOR SHALL ONLY GRADE, INCLUDING CLEARING AND GRUBBING, AREAS FOR WHICH THE CONTRACTOR OR QUALIFIED CONTACT PERSON CAN PROVIDE EROSION AND SEDIMENT CONTROL MEASURES.

5. THE CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT ALL SUB-CONTRACTORS AND SUPPLIERS ARE AWARE OF ALL STORM WATER BMPS AND IMPLEMENT SUCH MEASURES. FAILURE TO COMPLY WITH THE APPROVED SWPPP/WPCP WILL RESULT IN THE ISSUANCE OF CORRECTION NOTICES, CITATIONS, CIVIL PENALTIES, AND/OR STOP WORK NOTICES.

6. THE CONTRACTOR OR QUALIFIED CONTACT PERSON SHALL BE RESPONSIBLE FOR CLEANUP OF ALL SILT, DEBRIS, AND MUD ON AFFECTED AND ADJACENT STREET(S) AND WITHIN STORM DRAIN SYSTEM DUE TO CONSTRUCTION VEHICLES/EQUIPMENT AND CONSTRUCTION ACTIVITY AT THE END OF EACH WORK DAY.

7. THE CONTRACTOR SHALL PROTECT NEW AND EXISTING STORM WATER CONVEYANCE SYSTEMS FROM SEDIMENTATION, CONCRETE RINSE, OR OTHER CONSTRUCTION-RELATED DEBRIS AND DISCHARGES WITH THE APPROPRIATE BMPS THAT ARE ACCEPTABLE TO THE RESIDENT ENGINEER AND AS INDICATED IN THE SWPPP/WPCP

8. THE CONTRACTOR OR QUALIFIED CONTACT PERSON SHALL CLEAR DEBRIS, SILT, AND MUD FROM ALL DITCHES AND SWALES PRIOR TO AND WITHIN 3 BUSINESS DAYS AFTER EACH RAIN EVENT OR PRIOR TO THE NEXT RAIN EVENT, WHICHEVER IS SOONER.

9. IF A NON-STORM WATER DISCHARGE LEAVES THE SITE, THE CONTRACTOR SHALL IMMEDIATELY STOP THE ACTIVITY AND REPAIR THE DAMAGES. THE CONTRACTOR SHALL NOTIFY THE RESIDENT ENGINEER OF THE DISCHARGE, PRIOR TO RESUMING CONSTRUCTION ACTIVITY. ANY AND ALL WASTE MATERIAL, SEDIMENT, AND DEBRIS FROM EACH NON-STORM WATER DISCHARGE SHALL BE REMOVED FROM THE STORM DRAIN CONVEYANCE SYSTEM AND PROPERLY DISPOSED OF BY THE CONTRACTOR.

10. EQUIPMENT AND WORKERS FOR EMERGENCY WORK SHALL BE MADE AVAILABLE AT ALL TIMES. ALL NECESSARY MATERIALS SHALL BE STOCKPILED ON SITE AT CONVENIENT LOCATIONS TO FACILITATE RAPID DEPLOYMENT OF CONSTRUCTION BMPS WHEN RAIN IS IMMINENT.

11. THE CONTRACTOR SHALL RESTORE AND MAINTAIN ALL EROSION AND SEDIMENT CONTROL BMPS TO WORKING ORDER YEAR ROUND.

13. EFFECTIVE PLANTING SHALL BE INSTALLED, FULLY GERMINATED, AND SHALL EFFECTIVELY COVER THE REQUIRED SLOPES PRIOR TO FINAL APPROVAL. THE PLANTING MIX SHALL BE APPROVED BY THE CITY ENGINEER PRIOR TO INSTALLATION.

14. GRAVEL BAGS AND NECESSARY MATERIALS SHALL BE AVAILABLE ON SITE AND STOCKPILED AT CONVENIENT LOCATIONS TO FACILITATE RAPID CONSTRUCTION OF TEMPORARY DEVICES OR TO REPAIR ANY DAMAGED EROSION CONTROL MEASURES WHEN RAIN IS IMMINENT. A STAND-BY CREW SHALL BE MADE AVAILABLE AT ALL TIMES DURING THE RAINY SEASON.

15. ANY PROPOSED ALTERNATE CONTROL MEASURES ARE TO BE RECOMMENDED BY THE ENGINEER OF WORK FOR APPROVAL BY THE CITY ENGINEER PRIOR TO INSTALLATION.

16. ALL EROSION CONTROL PLANS MUST PROVIDE A 24-HOUR TELEPHONE NUMBER AND THE NAME(S) OF THE PERSON(S) RESPONSIBLE FOR EMERGENCY WORK. A TELEPHONE ANSWERING MACHINE OR ANSWERING SERVICE IS UNACCEPTABLE.

17. THE CONTRACTOR SHALL RESTORE ALL EROSION CONTROL DEVICES TO WORKING ORDER TO THE SATISFACTION OF THE CITY ENGINEER AFTER EACH RUN-OFF PRODUCING RAINFALL.

18. THE CONTRACTOR SHALL INSTALL ADDITIONAL EROSION CONTROL MEASURES AS MAY BE REQUIRED BY THE CITY ENGINEER DUE TO UNCOMPLETED GRADING OPERATIONS OR UNFORESEEN CIRCUMSTANCES WHICH MAY ARISE.

19. THE CONTRACTOR SHALL BE RESPONSIBLE AND SHALL TAKE NECESSARY PRECAUTIONS TO PREVENT PUBLIC TRESPASS ONTO AREAS WHERE IMPOUNDED WATERS CREATE A HAZARDOUS CONDITION.

20. GRADED AREAS AROUND THE PROJECT PERIMETER MUST DRAIN AWAY FROM THE FACE OF SLOPE AT THE CONCLUSION OF EACH WORKING DAY.

21. ALL GRAVEL BAGS SHALL BE BURLAP TYPE WITH 3/4 INCH MINIMUM AGGREGATE.

22. FOR INLETS LOCATED AT SUMPS ADJACENT TO TOP OF SLOPES, THE CONTRACTOR SHALL ENSURE THAT WATER DRAINING TO THE SUMP IS DIRECTED INTO THE INLET AND THAT A MINIMUM OF 1.00' FREEBOARD EXISTS AND IS MAINTAINED ABOVE THE TOP OF THE INLET. IF FREEBOARD IS NOT PROVIDED BY GRADING SHWON ON THESE PLANS, THE CONTRACTOR SHALL PROVIDE IT VIA TEMPORARY MEASURES, I.E. GRAVEL BAGS OR DIKES.

23. THE GRADING CONTRACTOR SHALL BE RESPONSIBLE FOR CLEANUP OF SILT AND MUD ON ADJACENT STREET DUE TO CONSTRUCTION ACTIVITY.

24. THE CONTRACTOR SHALL CHECK AND MAINTAIN LINED AND UNLINED DITCHES AFTER EACH RAINFALL.

25. THE CONTRACTOR SHALL REMOVE SILT AND DEBRIS AFTER EACH MAJOR RAINFALL OR WHEN SILT REACHES AN ELEVATION OF 0.5' BELOW WEIR OPENING FOR GRAVEL BAG BASINS.

26. DEVICES SHOWN ON PLAN SHALL NOT BE MOVED OR MODIFIED WITHOUT THE APPROVAL OF THE RESIDENT ENGINEER.

27. ALL EROSION CONTROL MEASURES PROVIDED PER THE APPROVED GRADING PLAN SHALL BE INCORPORATED HEREON.

28. THE CONTRACTOR SHALL ARRANGE FOR MEETINGS PRIOR TO ANY EXPECTED RAIN EVENTS FOR PROJECT TEAM (GENERAL CONTRACTOR, QUALIFIED PERSON, EROSION CONTROL SUBCONTRACTOR IF ANY, ENGINEER OF WORK, OWNER/DEVELOPER AND THE RESIDENT ENGINEER) TO EVALUATE THE ADEQUACY OF THE EROSION CONTROL MEASURES AND OTHER RELATED CONSTRUCTION ACTIVITIES.

SPECIAL EROSION CONTROL NOTES

1. EFFECTIVE PLANTING SHALL BE INSTALLED, FULLY GERMINATED, AND SHALL EFFECTIVELY COVER THE REQUIRED SLOPES PRIOR TO FINAL APPROVAL. THE PLANTING MIX SHALL BE APPROVED BY THE CITY ENGINEER PRIOR TO INSTALLATION.

14. GRAVEL BAGS AND NECESSARY MATERIALS SHALL BE AVAILABLE ON SITE AND STOCKPILED AT CONVENIENT LOCATIONS TO FACILITATE RAPID CONSTRUCTION OF TEMPORARY DEVICES OR TO REPAIR ANY DAMAGED EROSION CONTROL MEASURES WHEN RAIN IS IMMINENT. A STAND-BY CREW SHALL BE MADE AVAILABLE AT ALL TIMES DURING THE RAINY SEASON.

15. ANY PROPOSED ALTERNATE CONTROL MEASURES ARE TO BE RECOMMENDED BY THE ENGINEER OF WORK FOR APPROVAL BY THE CITY ENGINEER PRIOR TO INSTALLATION.

16. ALL EROSION CONTROL PLANS MUST PROVIDE A 24-HOUR TELEPHONE NUMBER AND THE NAME(S) OF THE PERSON(S) RESPONSIBLE FOR EMERGENCY WORK. A TELEPHONE ANSWERING MACHINE OR ANSWERING SERVICE IS UNACCEPTABLE.

17. THE CONTRACTOR SHALL RESTORE ALL EROSION CONTROL DEVICES TO WORKING ORDER TO THE SATISFACTION OF THE CITY ENGINEER AFTER EACH RUN-OFF PRODUCING RAINFALL.

18. THE CONTRACTOR SHALL INSTALL ADDITIONAL EROSION CONTROL MEASURES AS MAY BE REQUIRED BY THE CITY ENGINEER DUE TO UNCOMPLETED GRADING OPERATIONS OR UNFORESEEN CIRCUMSTANCES WHICH MAY ARISE.

19. THE CONTRACTOR SHALL BE RESPONSIBLE AND SHALL TAKE NECESSARY PRECAUTIONS TO PREVENT PUBLIC TRESPASS ONTO AREAS WHERE IMPOUNDED WATERS CREATE A HAZARDOUS CONDITION.

20. GRADED AREAS AROUND THE PROJECT PERIMETER MUST DRAIN AWAY FROM THE FACE OF SLOPE AT THE CONCLUSION OF EACH WORKING DAY.

21. ALL GRAVEL BAGS SHALL BE BURLAP TYPE WITH 3/4 INCH MINIMUM AGGREGATE.

22. FOR INLETS LOCATED AT SUMPS ADJACENT TO TOP OF SLOPES, THE CONTRACTOR SHALL ENSURE THAT WATER DRAINING TO THE SUMP IS DIRECTED INTO THE INLET AND THAT A MINIMUM OF 1.00' FREEBOARD EXISTS AND IS MAINTAINED ABOVE THE TOP OF THE INLET. IF FREEBOARD IS NOT PROVIDED BY GRADING SHWON ON THESE PLANS, THE CONTRACTOR SHALL PROVIDE IT VIA TEMPORARY MEASURES, I.E. GRAVEL BAGS OR DIKES.

23. THE GRADING CONTRACTOR SHALL BE RESPONSIBLE FOR CLEANUP OF SILT AND MUD ON ADJACENT STREET DUE TO CONSTRUCTION ACTIVITY.

24. THE CONTRACTOR SHALL CHECK AND MAINTAIN LINED AND UNLINED DITCHES AFTER EACH RAINFALL.

25. THE CONTRACTOR SHALL REMOVE SILT AND DEBRIS AFTER EACH MAJOR RAINFALL OR WHEN SILT REACHES AN ELEVATION OF 0.5' BELOW WEIR OPENING FOR GRAVEL BAG BASINS.

26. DEVICES SHOWN ON PLAN SHALL NOT BE MOVED OR MODIFIED WITHOUT THE APPROVAL OF THE RESIDENT ENGINEER.

27. ALL EROSION CONTROL MEASURES PROVIDED PER THE APPROVED GRADING PLAN SHALL BE INCORPORATED HEREON.

28. THE CONTRACTOR SHALL ARRANGE FOR MEETINGS PRIOR TO ANY EXPECTED RAIN EVENTS FOR PROJECT TEAM (GENERAL CONTRACTOR, QUALIFIED PERSON, EROSION CONTROL SUBCONTRACTOR IF ANY, ENGINEER OF WORK, OWNER/DEVELOPER AND THE RESIDENT ENGINEER) TO EVALUATE THE ADEQUACY OF THE EROSION CONTROL MEASURES AND OTHER RELATED CONSTRUCTION ACTIVITIES.

BMP LEGEND

TEMPORARY RUNOFF CONTROL BMPs

SC-6	GRAVEL OR SAND BAGS
SC-7	STREET SWEEPING AND VACUUMING
SC-1	SILT FENCE
TC-1	STABILIZED CONSTRUCTION ENTRANCE

MATERIALS & WASTE MANAGEMENT CONTROL BMPs

WM-1	MATERIAL DELIVERY & STORAGE
WM-4	SPILL PREVENTION AND CONTROL
WM-8	CONCRETE WASTE MANAGEMENT
WM-5	SOLID WASTE MANAGEMENT
WM-9	SANITARY WASTE MANAGEMENT
WM-6	HAZARDOUS WASTE MANAGEMENT

0 5 10 20 30
(IN FEET)
1 inch = 10 ft.

N

33

latitude 33
PLANNING & ENGINEERING
10731 Treena Street, San Diego, CA 92131
Tel 858.751.0633

HEAD START MADISON
698 W MADISON AVE
EL CAJON, CA 92020

EROSION CONTROL PLANS

SHEET NO. 4 OF 4 SHEETS

ENGINEERING DIVISION JOB NO.
3886

DRAWING NO.
3561

GDP-2025-0013, MUP-2024-0005