

M. LIGHTING ALLOWANCE: PER SPECIFIC AREA
This section does not apply to this project.

N. EXISTING CONDITIONS POWER ALLOWANCE (alterations only)
This section does not apply to this project.

O. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION
Selections have been made based on information provided in this document. If any selection has 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
NRCCLTO-E - Must be submitted for all buildings

P. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE
There are no NRCA forms required for this project.

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT
I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name: Rami Zeidan
Company: LP Consulting Engineers, Inc.
Address: 1209 Pleasant Grove Blvd
City/State/Zip: Roseville CA 95678
Signature Date: 2024-01-10
CEA/HERS Certification Identification (if applicable):
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 Designer Name: Rami Zeidan
Company: LP Consulting Engineers
Address: 1209 Pleasant Grove Blvd.
City/State/Zip: Roseville CA 95678
Date Signed: 2024-01-10
License: 16762
Phone: 916-771-0778

F. OUTDOOR LIGHTING FIXTURE SCHEDULE

For new or altered lighting systems demonstrating compliance with 140.7 / 170.2(e) all new luminaires being installed and any existing luminaires remaining or being moved within the spaces covered by the permit application are included in the Table below. For altered lighting systems using the Existing Power method per 241.0(b)(2), only new luminaires being installed and replacement luminaires being installed as part of the project scope are included (i.e. existing luminaires remaining or existing luminaires being moved are not included). Outdoor lighting attached to multifamily buildings and controlled from the inside of a dwelling unit are included in Table H, and are not included here. All other multifamily outdoor lighting is included here.

01	02	03	04	05	06	07	08	09	10
Name or Item Tag	Complete Luminaire Description	Watts per luminaire ^{1,2}	How is Wattage determined	Total Number Luminaires ²	Luminaire Status ²	Excluded per 140.7(i) / 170.2(e)(6A)	Design Watts	Cutoff Req. > 6,200 initial lumen output 130.2(b) / 160.5(c)(1) ⁴	Field Inspector Pass Fail
S1	S1, CLAN-SA2-C <input type="checkbox"/> Linear	108	Mfr. Spec	3	New	<input type="checkbox"/>	324	Provided	<input type="checkbox"/> <input type="checkbox"/>
Total Design Watts:							324		

* NOTES: Selections with a * require a note in the space below explaining how compliance is achieved.
EX: Luminaire is lighting a statue; EXCEPTION 2 to 130.2(b)
* FOOTNOTES: Authority Having Jurisdiction may ask for Luminaire cut sheets to confirm wattage used for compliance per 130.0(c) / 160.5(b)
* For linear luminaires, wattage should be indicated as W/ft instead of Watts/luminaire. Total linear feet should be indicated in column 05 instead of number of luminaires.
* Select "New" for new luminaires in a new outdoor lighting project, or for added luminaires in an alteration. Select "Altered" for replacement luminaires in an alteration. Select "Existing to Remain" for existing luminaires within the project scope that are not being altered and are remaining. Select "Existing Reinstalled" for existing luminaires which are being removed and reinstalled as part of the project scope.
* Compliance with mandatory shielding requirements is required for luminaires with initial lumen output >= 6,200 unless exempted by 130.2(b) / 160.5(c)

G. SHIELDING REQUIREMENTS (BUG)

This table includes fixtures of <=6,200 initial lumens indicated on Table F as needing to comply with Shielding Requirements. Maximum lumens can be found in Title 24, Part 11, Section 5.106.8.

01	02	03	04	05	06	07	08	09	10	11	12
Name or Item Tag	Complete Luminaire Description	Mounting Height ¹	Max Allowable Backlight Rating ²	Backlight Rating Per Design	Lighting type	Max Allowable Uplight Rating ³	Uplight Rating Per Design	Mounting Height ¹	Max Allowable Glare Rating ¹	Glare Rating Per Design	Field Inspector Pass Fail
S1	S1, CLAN-SA2-C	2 MH from property line	No Limit	B2	All other outdoor lighting, including decorative	U3	U0	> 2 MH from property line	G3	G3	<input type="checkbox"/> <input type="checkbox"/>

* FOOTNOTES: Mounting Height is labeled MH in this table.
* Authority Having Jurisdiction may ask for Luminaire cut sheets or other documentation to confirm luminaire type, uplight ratings and glare ratings used for compliance per 130.2(b) / 160.5(c)
* BUG ratings with a lower number than the "Max Allowable" are compliant. Ex. If Max Allowable is Bug Rating B4, then B0, B1, B2 and B3 are all compliant.

H. OUTDOOR LIGHTING CONTROLS

This table demonstrates compliance with controls requirements for all new or altered luminaires installed as part of the permit application. For alteration projects, luminaires which are existing to remain (ie untouched) and luminaires which are removed and reinstalled (wiring only) do not need to be included in this table even if they are within the spaces covered by the permit application.
Outdoor lighting for nonresidential buildings, parking garages and common service areas in multifamily buildings must be documented separately from outdoor lighting attached to multifamily buildings and controlled from the inside of a dwelling unit

Mandatory Controls for Nonresidential Occupancies, Parking Garages & Common Areas in Multifamily Buildings

01	02	03	04	05
Area Description	Shut-Off 130.2(c)(1) / 160.5(c)	Auto-Schedule 130.2(c)(2) / 160.5(c)	Motion Sensor 130.2(c)(3) / 160.5(c)	Field Inspector Pass Fail
				<input type="checkbox"/> <input type="checkbox"/>

* FOOTNOTE: Text has been abbreviated, please refer to Table 160.5-A to confirm compliance with the specific light source technologies listed.
* Authority having jurisdiction may ask for cut sheets or other documentation to confirm compliance of light source.
* Recessed luminaires marked for use in fire-rated installations, and recessed luminaires installed in non-insulated ceilings are excepted from ii and iii.

I. LIGHTING POWER ALLOWANCE (per 140.7 / 170.2(e))

This table includes areas using allowance calculations per 140.7 / 170.2(e). General Hardscape Allowance is per Table 140.7-A / Table 170.2-A while "Use it or lose it" Allowances are per Table 140.7-B / Table 170.2-S. Indicate which allowances are being used to expand sections for user input. Luminaires that qualify for one of the "Use it or lose it" allowances shall not qualify for another "Use it or lose it" allowance.
Outdoor lighting attached to multifamily buildings and controlled from the inside of a dwelling unit are included in Table H, and are not included here. All other multifamily outdoor lighting is included here.

02	03	04	05	06	07	08	09
Area Description	Illuminated Area (ft ²)	Area Wattage Allowance (AWA) (W/ft ²)	Area Allowance (Watts)	Perimeter Length (ft)	Allowed Density (W/ft)	Linear Allowance (Watts)	Total General AWA + LWA (Watts)
SAFE DISPERSAL AREA	8312	0.021	174.6	451	0.2	90.2	265
Initial Wattage Allowance for Entire Site (Watts):							250
Instances of Initial Wattage Allowance (L2 O only)¹							
Total General Hardscape Allowance (Watts):							515

I. LIGHTING ALLOWANCE: PER APPLICATION
This section does not apply to this project.

K. LIGHTING ALLOWANCE: SALES FRONTAGE
This section does not apply to this project.

L. LIGHTING ALLOWANCE: ORNAMENTAL
This section does not apply to this project.



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ISSUE	DESCRIPTION	DATE
1	ADDENDUM #1	03/01/2024



FACILITY:
MATSUYAMA ELEMENTARY SCHOOL
7680 WINDBRIDGE DR.
SACRAMENTO, CA 95831

PROJECT:
MATSUYAMA ELEMENTARY SCHOOL MODERNIZATION

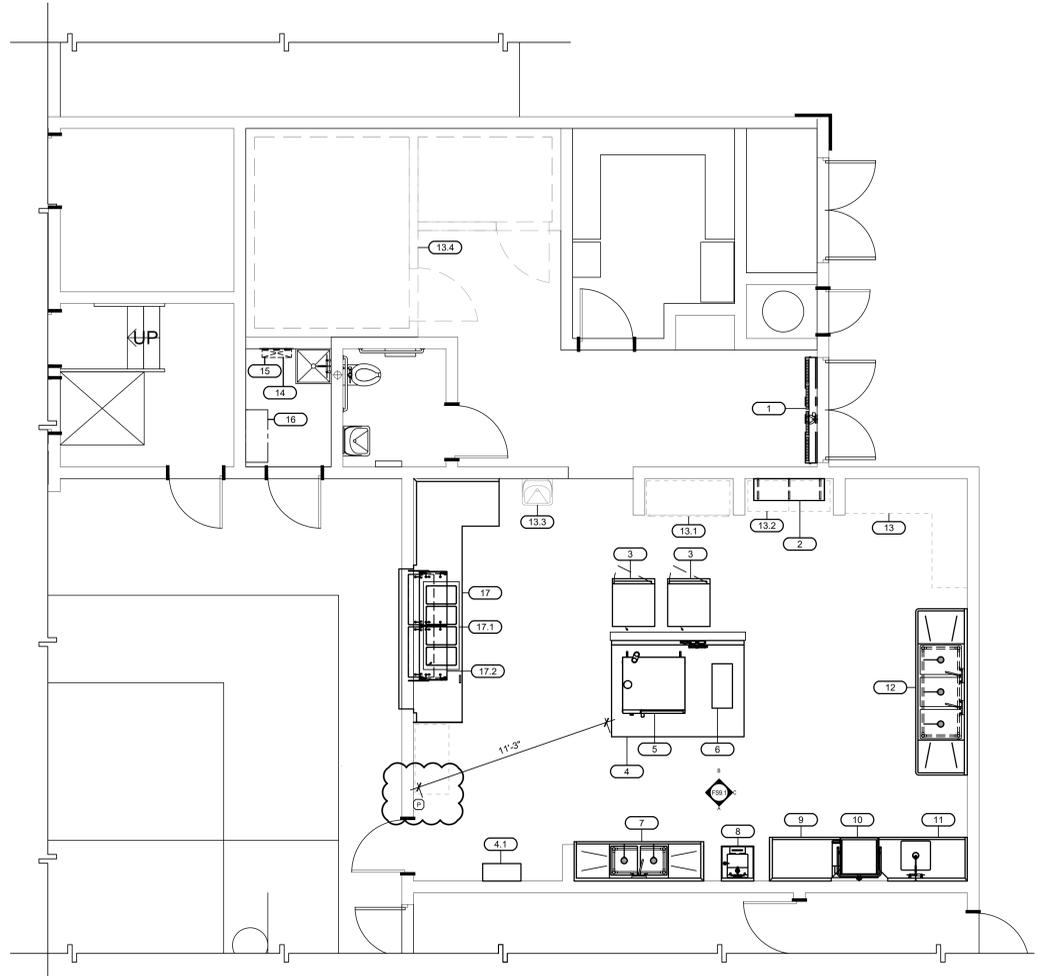
SHEET NAME:
TITLE 24 COMPLIANCE - ELECTRICAL BUILDING 2 AND SITE LIGHTING

DSA SUBMITTAL

DATE: 01/04/2024 CLIENT PROJ NO: 3186-070-000

SHEET:

THIS SHEET IS TO BE USED IN CONJUNCTION WITH THE ORIGINAL DRAWING SHEET.



FOODSERVICE EQUIPMENT FLOOR PLAN

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

1
FS1.1

PLUMBING NOTE
1. ALL EXISTING GAS TO EQUIPMENT TO BE REMOVED, SHUTOFF AND CAPPED REFER TO PLUMBING.

KITCHEN EQUIPMENT HOOD AND FIRE SYSTEM
1. THE KITCHEN HOOD FIRE SUPPRESSION SYSTEM SHALL CONFORM TO THE REQUIREMENTS OF THE 2021 EDITION OF THE NFPA 17A. (UL 300 SYSTEM).
2. INSTALLATION OF THE FIRE SUPPRESSION SYSTEM SHALL NOT BE STARTED UNTIL COMPLETE PLANS AND SPECIFICATIONS HAVE BEEN APPROVED BY DEPT. OF STATE ARCHITECT.
3. UPON COMPLETION OF THE SYSTEM IT SHALL BE TESTED IN THE PRESENCE OF THE STATE FIRE MARSHAL.

APPLICABLE CODE: 2022 CBC

FOODSERVICE EQUIPMENT COMPONENT ANCHORAGE NOTE
ALL FOODSERVICE COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE DSA-APPROVED CONSTRUCTION DOCUMENTS. THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCE AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE 2022 CBC SECTIONS 1617A.1.1 THROUGH 1617A.1.26 AND ASCE-16 CHAPTERS 13, 26, AND 30:
1. ALL PERMANENT EQUIPMENT AND COMPONENTS.
2. TEMPORARY, MOVABLE OR MOBILE EQUIPMENT THAT IS PERMANENTLY ATTACHED (E.G. HARD WIRED) TO THE BUILDING UTILITY SERVICES SUCH AS ELECTRICITY, GAS OR WATER. PERMANENTLY ATTACHED SHALL INCLUDE ALL ELECTRICAL CONNECTIONS EXCEPT PLUGS FOR 110/220 VOLT RECEPTACLES HAVING A FLEXIBLE CABLE.
3. TEMPORARY, MOVABLE OR MOBILE EQUIPMENT WHICH IS HEAVIER THAN 400 POUNDS OR HAS A CENTER OF MASS LOCATED 4 FEET OR MORE ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT IS REQUIRED TO BE RESTRAINED IN A MANNER APPROVED BY DSA.
THE FOLLOWING MECHANICAL AND ELECTRICAL COMPONENTS SHALL BE POSITIVELY ATTACHED TO THE STRUCTURE BUT NEED NOT DEMONSTRATE DESIGN COMPLIANCE WITH THE REFERENCES NOTED ABOVE. THESE COMPONENTS SHALL HAVE FLEXIBLE CONNECTIONS PROVIDED BETWEEN THE COMPONENT AND ASSOCIATED DUCTWORK, PIPING, AND CONDUIT. FLEXIBLE CONNECTIONS MUST ALLOW MOVEMENT IN BOTH TRANSVERSE AND LONGITUDINAL DIRECTIONS.
A. COMPONENTS WEIGHING LESS THAN 400 POUNDS AND HAVING A CENTER MASS 4 FEET OR LESS ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT.
B. COMPONENTS WEIGHING LESS THAN 20 POUNDS, OR IN THE CASE OF DISTRIBUTED SYSTEMS, LESS THAN 5 POUNDS PER FOOT, WHICH ARE SUSPENDED FROM A ROOF OR FLOOR OR HUNG FROM A WALL.

PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEM BRACING NOTE
PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEM SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7-16 SECTION 13.3 AS DEFINED IN ASCE 7-16 SECTIONS 13.5.5, 13.5.6, 13.5.7, 13.5.8, AND 2022 CBC, SECTIONS 1617A.1.24, 1617A.1.25 AND 1617A.1.26.
THE METHOD OF SHOWING BRACING AND ATTACHMENTS TO THE STRUCTURE FOR THE IDENTIFIED DISTRIBUTION SYSTEM ARE AS NOTED BELOW. WHEN BRACING AND ATTACHMENTS ARE BASED ON A PRE-APPROVED INSTALLATION GUIDE (E.G. OSHPD OPM# FOR 2013 CBC OR LATER), COPIES OF THE BRACING SYSTEM INSTALLATION GUIDE OR MANUAL SHALL BE AVAILABLE ON THE JOBITE PRIOR TO THE START OF AND DURING THE BRACING AND BRACING OF THE DISTRIBUTION SYSTEMS. THE STRUCTURAL ENGINEER OF RECORD SHALL VERIFY THE ADEQUACY OF THE STRUCTURE TO SUPPORT THE HANGER AND BRACE LOADS.
MECHANICAL PIPING (MP), MECHANICAL DUCTS (MD), PLUMBING PIPING (PP), ELECTRICAL DISTRIBUTION SYSTEMS (E):
MP MD PP E Option 1: DETAILED ON THE APPROVED DRAWINGS WITH PROJECT SPECIFIC NOTES AND DETAILS.
MP MD PP E Option 2: SHALL COMPLY WITH THE APPLICABLE OSHPD PRE-APPROVAL (OPM #) #

EQUIPMENT SCHEDULE									
ITEM NO	QTY	NIS	OFCI	EQUIPMENT CATEGORY	MANUFACTURER	MODEL NUMBER	SCHED. NOTES	WEIGHTS LBS.	ANCHORAGE DETAILS
1	1			AIR CURTAIN, UNHEATED	BERNER	SLC07-1072A		72	C/FS8.2
2	1			SHELF, WALL MOUNT	EAGLE GROUP/METAL MASTERS	SWS1548-14/3		19	C/FS8.1
3	2	X		CABINET, MOBILE, WARMING & HOLDING	CRES COR	H-137-SJA-12D			K/FS8.2
4	1			EXHAUST HOOD, TYPE 1, LOW PROFILE	STREIVOR	WCLC 906322.5		499	A/FS8.3
4.1	1			FIRE SUPPRESSION SYSTEM CABINET	STREIVOR	CND	①	100	4/FS4.1
5	1			OVEN-STEAMER, COMBINATION, ELECTRIC	RATIONAL USA	ICP 6-FULL ON 6-FULL E	②	63	D/FS8.2
6	1			INDUCTION RANGE, COUNTERTOP/W/ STAND	COOKTEK	620701		45	L/FS8.1
7	1			PREP SINK, 2 COMPARTMENTS	EAGLE GROUP/METAL MASTERS	FN2036-2-24-14/3		135	B/FS8.1
8	1			SINK, HAND, WALL MOUNT	EAGLE GROUP/METAL MASTERS	HSAP-14-ADA-FW		57	B/FS8.2
9	1			DISHTABLE, STRAIGHT	EAGLE GROUP/METAL MASTERS	CDTR-48-14/3		77	C/FS8.1
10	1			WAREWASHER, DOOR TYPE, HIGH TEMP	HOBART US FOODSERVICE	AM18VLT-ADV		430	A/FS8.2
11	1			SOILED DISHTABLE, W/ SCRAP SINK	EAGLE GROUP/METAL MASTERS	SDTL-60-14/3	③	94.7	A/FS8.1
12	1			SINK, SCULLERY, 3 COMPARTMENTS	EAGLE GROUP/METAL MASTERS	FN2860-3-24-14/3		356	A/FS8.1
13	1	X		S/S WORK COUNTER, EXISTING TO REMAIN					
13.1	1	X		REACH IN REFRIGERATOR, EXISTING TO REMAIN					
13.2	1	X		WASHER / DRY, EXISTING TO REMAIN					
13.3	1	X		HAND SINK, EXISTING TO REMAIN					
13.4	1	X		WALK-IN REF. FREEZER, EXISTING TO REMAIN					
14	1			MOP RACK	ADVANCED TABCO	K-242		2	
15	1			MOP DRAINAGE TRAY	ADVANCED TABCO	K-243		13	
16	1			STORAGE CABINET FOR CLEANING SUPPLIES	ADVANCED TABCO	WCH-15-36		120	H/FS8.1
17	1			SERVING COUNTER	FABRICATED ITEM			380	L/FS8.1
17.1	1			DROP IN HOT WELLS, DRY	DUKE	WWG-4	④	115	L/FS8.1
17.2	1			SNEEZE GUARD	PMG	FM2N-A		65	L/FS8.1

SCHEDULE NOTES
① WALL MOUNT CABINET TYPE WITH MARINE STAND
② WITH MARINE STAND
③ WITH SCRAP SINK BASKET AND COVER
④ NO DRAINS

FOODSERVICE DRAWINGS INDEX

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FS9.1	- FOODSERVICE EQUIPMENT ELEVATIONS

HEALTH DEPARTMENT NOTES:

1. PROVIDE THERMOMETER IN ALL REFRIGERATION UNITS CONTAINING PERISHABLE FOODS.	11. UNPACKAGED PROCESSED FOODS ON DISPLAY SHALL BE EFFECTIVELY SHIELDED OR COVERED.
2. PROVIDE PROBE THERMOMETER FOR CHECKING HOT AND COLD FOODS.	12. PROVIDE SOAP AND TOWEL DISPENSERS AT ALL HAND WASHING SINKS.
3. FOOD STORAGE SHELVES SHALL BE MINIMUM SIZE (6) INCHES ABOVE FLOOR.	13. FLOOR SINKS SHALL BE INSTALLED FLUSH WITH FLOOR AND READILY ACCESSIBLE FOR CLEANING.
4. ALL EQUIPMENT SHALL MEET OR BE EQUIVALENT TO "NSF" STANDARDS.	14. GREASE INTERCEPTORS SHALL BE INSTALLED READILY ACCESSIBLE FOR CLEANING.
5. PROVIDE GARMENT STORAGE AREA: LOCKER, CABINET OR HANGERS FOR EMPLOYEE GARMENTS.	15. PROVIDE PROTECTIVE COVERS ON ALL LIGHTS IN FOOD PREPARATION, OPENED FOOD STORAGE ROOM(S), UTENSIL WASH AREAS, OR USE SHATTERPROOF BULBS.
6. RODENT AND INSECT-PROOF ALL EXTERIOR DOORS AND WINDOWS. PROVIDE HEAVY-DUTY SELF-CLOSERS ON ALL EXTERIOR DOORS AND RESTROOM DOORS. SEAL ALL HOLES OR GAPS AROUND PIPES ENTERING BUILDING.	16. LIGHTING REQUIREMENTS: -MINIMUM 50FT. CANDLES REQUIRED IN FOOD PREP AREA -MINIMUM 20FT. CANDLES REQUIRED IN RESTROOMS AND BARS -MINIMUM 10FT. CANDLES REQUIRED IN REFRIGERATORS -MINIMUM 10FT. CANDLES REQUIRED IN STORAGE AREAS -LIGHTING SHALL BE SHATTERPROOF OR SHIELDED
7. EXTERIOR DOORS SHALL BE RODENT PROOF WITH NO OPENINGS GREATER THAN 1/4 INCH.	17. EXISTING FIXTURES, FINISHES, AND EQUIPMENT SHALL BE IN OPERABLE CONDITION AND SUBJECT TO FIELD APPROVAL.
8. PROVIDE HARDWOOD, METAL, FORMICA OR OTHER APPROVED MATERIALS, SMOOTH WITH SEALER ON ALL TABLE, COUNTERS, SHELVES, AND OTHER FOOD CONTACT SURFACES.	18. WALLS & CEILING IN THE RESTROOMS, PREPARATION, STORAGE, AND JANITORIAL AREAS SHALL BE CONSTRUCTED OF APPROVED MATERIALS SO AS TO BE SMOOTH, WASHABLE, AND EASY TO CLEAN.
9. PROVIDE HAZARDOUS SUBSTANCE LOCATION: SEPARATE CABINET, ROOM OR DESIGNATED AREA FOR STORAGE OF PESTICIDE AND CLEANING COMPOUNDS.	
10. INSTALL EQUIPMENT TO FACILITATE CLEANING. PLACE FLOOR MOUNTED UNITS ON CASTERS, MINIMUM SIX (6) INCHES HIGH, ROUND, METAL LEGS, OR SEAL IN POSITION ON MINIMUM FOUR (4) INCH CURB.	

FLOOR LEGEND

SYMBOL/ABBREVIATION	DESCRIPTION	SYMBOL	DESCRIPTION
NIS	NOT IN SCOPE OF WORK	[Symbol]	ACCESSIBLE CLEARANCES AND SYMBOL 30"x48" MIN CLEARANCE
OFCI	OWNER FURNISH / CONTRACTOR INSTALLED	[Symbol]	48" CLR
OFOI	OWNER FURNISH / OWNER INSTALLED	[Symbol]	OUTLINE OF FOODSERVICE EQUIPMENT
FSEC	FOODSERVICE EQUIPMENT CONTRACTOR	[Symbol]	FOODSERVICE EQUIPMENT BELOW EQUIPMENT TOP
VFVI	VENDER FURNISH / VENDER INSTALLED	[Symbol]	FOODSERVICE EQUIPMENT ABOVE EQUIPMENT TOP
(E), EXIST	EXISTING FOODSERVICE EQUIPMENT	[Symbol]	MOBILE FOODSERVICE EQUIPMENT
(F)	FUTURE FOODSERVICE EQUIPMENT	[Symbol]	FIRE EXTINGUISHER & CABINET REFER TO ARCH. DRAWINGS FOR FIRE EXTINGUISHER LOCATIONS
[Symbol]	BUILDING WALLS (SEE ARCH. DWGS.)	FS.1	SHEET NUMBER
[Symbol]	WALK-IN COOLER/ FREEZER INSULATED WALLS	(W.H.)	WATER HEATER (SEE PLUMBING ENG. DWG.)
① 1	KEY / SHEET NOTE	A FS0.1 B	ELEVATION INDICATOR SYMBOL
1	ITEM NUMBER SYMBOL (SEE EQUIPMENT SCHEDULE FOR DESCRIPTION)		
KITCHEN	ROOM/ AREA NAME AND ROOM NUMBER		
(C)	COLUMN GRIDS WITH COLUMN INDICATORS		
[Symbol]	STORAGE SHELVING SIZES (Width x Length)		
(P)	REMOTE PULL LOCATION 48" AFF		

AGENCY APPROVAL:



HMC Architects

3186-070-000

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ISSUE

DESCRIPTION	DATE
ADDENDUM #1	03/01/2024



FACILITY:
MATSUYAMA ELEMENTARY SCHOOL
7680 WINDBRIDGE DR.
SACRAMENTO, CA 95831

PROJECT:
MATSUYAMA ELEMENTARY SCHOOL MODERNIZATION

SHEET NAME: **FOODSERVICE EQUIPMENT FLOOR PLAN**

DSA SUBMITTAL

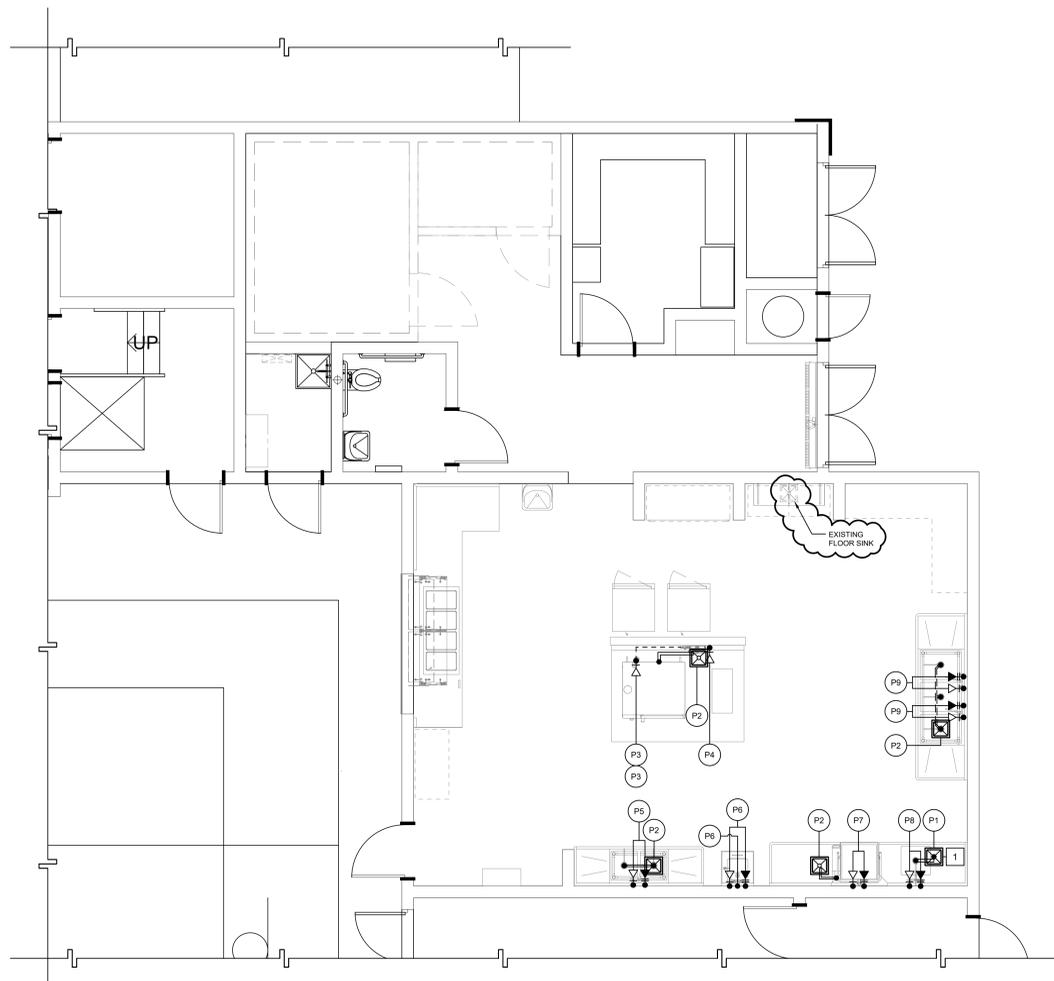
DATE: 01/04/2024

CLIENT PROJ NO: 3186-070-000

SHEET:

FS1.1

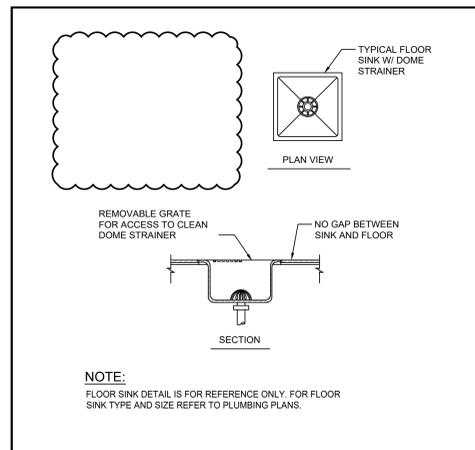
ALL LINE SHOWN ABOVE IN EXACT ORIGINAL PAGE SIZE



FOODSERVICE EQUIPMENT PLUMBING PLAN

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

1
FS2.1



FLUSH FLOOR SINK DETAIL

SCALE : NONE

2
FS2.1

PLUMBING SCHEDULE												
PLUM NO	ITEM NO.	DESCRIPTION	QTY	WATER			WASTE			REMARKS	NOTE(S)	
				CONN. SIZE	HGT. @ WALL	HGT. @ WALL	CONN. SIZE	HGT. @ WALL				
				C.W.	H.W.	DIR.	INDIR.	DIR.	INDIR.			
P1	-	FLOOR SINK EXISTING	1EA.	-	-	-	-	-	-	0"	INSTALL FLUSH WITH FINISH FLOOR, PROVIDE GRATE COVER W/ DOME STRAINER, VERIFY LOCATION AND SIZE.	
P2	-	FLOOR SINK	4EA.	-	-	-	-	-	-	0"	INSTALL FLUSH WITH FINISH FLOOR, PROVIDE GRATE COVER W/ DOME STRAINER, REFER TO PLUMBING PLANS FOR TYPE AND SIZE.	
P3	5	COMBI OVEN TREATED WATER CONNECTION	2EA.	-	-	-	-	2"	-	-	PROVIDE S.O.V., RUN PIPING TO UNIT CONNECTION, PROVIDE INDIRECT DRAIN TO FLOOR SINK	1 2 3
P4	5	COMBI OVEN FILTER WATER CONNECTION	1EA.	3/4"	-	60"	-	-	-	-	PROVIDE S.O.V., RUN PIPING TO UNIT CONNECTION, SEE EQUIPMENT CUT SHEET FOR MIN. WATER QUALITY REQUIREMENTS	1 2 3
P5	7	PREP SINK PLASH MOUNT FAUCET W/ 1/2" INLET 8" CENTER	1EA.	1/2"	1/2"	16"	-	1 1/2"	-	-	PROVIDE S.O.V., RUN PIPING TO UNIT CONNECTION, PROVIDE 1 1/2" INDIRECT DRAIN TO F.S. P1. (CHROME OR PAINT SILVER)	
P6	8	WALL MOUNTED HAND SINK FAUCET W/ 1/2" INLET 4" CENTER	1EA.	1/2"	1/2"	18"	1 1/2"	-	24"	-	PROVIDE S.O.V., RUN PIPING TO UNIT CONNECTION, RUN DIRECT WASTE WITH P-TRAP.	
P7	10	VENTLESS HIGH TEMP WARE WASHER W/ RAPID FILL	1EA.	3/4"	3/4"	16"	-	1 1/2"	-	-	PROVIDE S.O.V., RUN PIPING TO UNIT CONNECTION, PROVIDE 1 1/2" INDIRECT DRAIN TO F.S. P1.	4 5
P8	11	SOILED DISH TABLE W/ SCRAP SINK AND PRE-RINSE FAUCET	1EA.	1/2"	1/2"	16"	-	1 1/2"	-	-	PROVIDE S.O.V., RUN PIPING TO UNIT CONNECTION, PROVIDE 1 1/2" INDIRECT DRAIN TO F.S. P1.	
P9	12	POTWASH SINK FAUCET W/ 3/4" INLET 8" CENTER	2EA.	3/4"	3/4"	16"	-	1 1/2"	-	-	PROVIDE S.O.V., RUN PIPING TO UNIT CONNECTION, PROVIDE 1 1/2" INDIRECT DRAIN TO F.S. P1. (CHROME OR PAINT SILVER)	

PLUMBING KEY NOTE(S):

- CONTRACTOR TO VERIFY WATER QUALITY MEETS MANUFACTURERS STANDARD MINIMUM REQUIREMENTS
- CONNECT OUTLET FROM WATER FILTER TO TREATED WATER INLET ON ITEM 5
- 2 WATER CONNECTIONS PER DOUBLE STACK COMBI OVEN (1) PER DECK. (1) WATER FILTER PER DOUBLE STACK COMBI TO HAVE A Y FITTING TO SUPPLY TOP AND BOTTOM UNITS
- WATER HAMMER ARRESTOR (MEETING ASSE-1010 STANDARD) BY PLUMBER IN SUPPLY LINE.
- WATER PRESSURE 15-25 PSI- IF HIGHER, FURNISH PRESSURE REGULATOR VALVE WITH INTERNAL THERMAL EXPANSION BYPASS BY PLUMBER.

- PLUMBING NOTES**
- PLUMBING CONTRACTOR TO VERIFY ALL INCOMING SERVICE AND MAKE FINAL HOOK-UPS TO ALL APPLICABLE EQUIPMENT AND TO PROVIDE ALL PIPING, TEES, ELLS, TRAPS, FILTERS, REGULATORS, FAUCETS, ETC., UNLESS SPECIFICALLY STATED OTHERWISE.
 - ALL HORIZONTAL DIMENSIONS SHOWN ON PLAN ARE FROM FINISHED FACE OF WALL TO CENTERLINE OF STUB-OUT OR FROM CENTERLINE OF STUB-OUT TO CENTERLINE OF STUB-OUT, UNLESS NOTED OTHERWISE ON PLAN OR DETAILS. (VERIFY ALL DIMENSIONS)
 - SYMBOLS NOTED "+24", "+48", ETC., INDICATES TO STUB-OUT OF WALL AT HEIGHT INDICATED. HEIGHT IS GIVEN FROM FINISHED FLOOR (NOT FINISHED CURB) TO CENTERLINE OF STUB-OUT. SYMBOLS INDICATED "STUB-UP" AND "STUB-DOWN" ARE TO EXTEND ABOVE FINISHED FLOOR AND/OR BELOW FINISHED CEILING AT LOCATION SHOWN.
 - PLUMBING STUBS AND CONNECTIONS SHOWN ON PLANS ARE FOR EQUIPMENT FURNISHED BY THE FOOD SERVICE EQUIPMENT CONTRACTOR.
 - FLOOR SINKS SHOWN ARE TO BE SET FLUSH WITH TOP OF FINISHED FLOOR. FLOOR SINKS INDICATED HALF-IN AND HALF-OUT OF EQUIPMENT TO BE SET FLUSH WITH TOP OF FINISHED FLOOR. FLOOR SINKS LOCATED COMPLETELY WITHIN EQUIPMENT AREA TO BE SET FLUSH WITH TOP OF FINISHED FLOOR.
 - PLUMBING CONTRACTOR TO PROVIDE AND INSTALL REMOVABLE COVERS OR GRATES FOR ALL FULLY OR PARTIALLY EXPOSED FLOOR SINKS. GRATES TO HAVE 1/2" MAX OPENINGS WHERE DRAIN IS EXPOSED TO P.O.T OR TO PEDESTRIAN WAYS TYP.
 - PLUMBING CONTRACTOR SHALL SEAL ALL PLUMBING PENETRATIONS THROUGH WALLS, FLOORS, AND CEILINGS. WATERTIGHT AND VERMIN-PROOF.
 - PLUMBING CONTRACTOR TO PROVIDE AND INSTALL SHUT-OFF VALVES ON ALL WATER AND GAS LINES, INCLUDING VALVES IN FIXTURES, LOCATED IN SUCH A WAY AS TO BE ACCESSIBLE WITHOUT USE OF TOOLS.
 - PLUMBING CONTRACTOR TO PROVIDE AND INSTALL FOR ALL APPLICABLE EQUIPMENT, A TRAPPED FLOOR SINK WITH A LEGAL AIR GAP DRAIN LINE (INDIRECT WASTE) TO FLOOR SINK. INSULATE ALL DRAIN LINES FROM ICE BINS, ICE MACHINES, REFRIG. EQUIP., ETC.

FOODSERVICE PLUMBING LEGEND			
ABREV./SYMB.	DESCRIPTION	SYMBOL	DESCRIPTION
C.W.	COLD WATER	P1	PLUMBING SCHEDULE REFERENCE, REFER TO FS2.1 FOR SCHEDULE
H.W.	HOT WATER	1	SHEET AND/OR KEY NOTE
DIR.	WASTE (DIRECT CONNECTION)	➔	COLD WATER INLET
INDIR.	INDIRECT WASTE (AIR GAP)	➔	HOT WATER INLET
LAV.	LAVATORY	•	WATER CONNECTION TO EQUIPMENT
W.C.	WATER CLOSET	⊘	SHUT OFF VALVE (S.O.V.)
F.S.	FLOOR SINK	⊘	COLD WATER SHUT OFF VALVE
P.C.	PLUMBING CONTRACTOR	⊘	GAS SHUT-OFF VALVE
G.C.	GENERAL CONTRACTOR	⊘	FLOOR SINK
K.E.C.	KITCHEN EQUIPMENT CONTRACTOR	⊘	FLOOR DRAIN
S.O.V.	SHUT OFF VALVE	⊘	WASTE DOWN
GPH	GALLONS PER HOUR	⊘	GAS INLET
PSI	POUNDS PER SQUARE INCH	⊘	WALK-IN DRAIN LINE
(F)	DEGREES FAHRENHEIT	⊘	I.D. DRAIN LINE
CONN.	CONNECT	⊘	
LOC.	LOCATE	⊘	

PLUMBING PLAN SHEET NOTES

- VERIFY LOCATION OF EXISTING FLOOR SINK

AGENCY APPROVAL:



HMC Architects

3186-070-000

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ISSUE

DESCRIPTION	DATE
ADDENDUM #1	03/01/2024



FACILITY:
MATSUYAMA ELEMENTARY SCHOOL
7680 WINDBRIDGE DR.
SACRAMENTO, CA 95831

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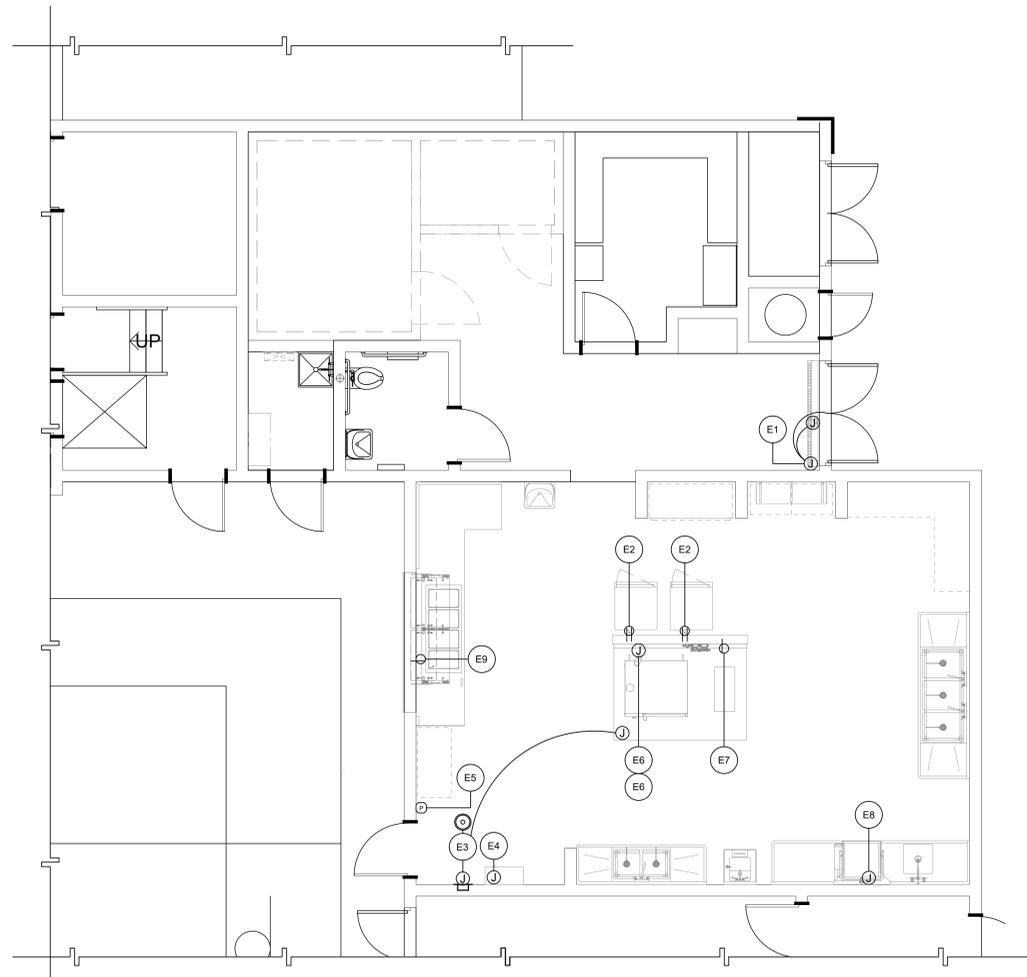
SHEET NAME: **FOODSERVICE EQUIPMENT PLUMBING PLAN**

DSA SUBMITTAL

DATE: 01/04/2024 CLIENT PROJ NO: 3186-070-000

SHEET: **FS2.1**

ALL WORK SHALL BE IN ACCORDANCE WITH THE CITY OF SACRAMENTO ELECTRICAL CODE



FOODSERVICE EQUIPMENT ELECTRICAL PLAN

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

1
FS3.1

ELECTRICAL SCHEDULE

ELEC. NO.	ITEM NO.	DESCRIPTION	QTY	VOLT.	PH	DIRECT PLUG	NEMA	LOAD			OUTLET HEIGHT	REMARKS	NOTE(S)
								WATT	AMPS DRAW	HP			
E1	1	UNHEATED AIR CURTAIN	1EA	120	1	X	-	-	3.4	-	+86"	PROVIDE J-BOX IN WALL. INSTALL DOOR LIMIT SWITCH FOR INSTANT ON/OFF SWITCH. SEE CF58.2	1
E2	3	MOBILE WARMING HOLDING CABINET (OFC)	1EA	120	1	-	X	5-15P	-	12	+36"	PROVIDE DUPLEX RECEPTACLE. UNIT PROVIDED WITH CORD AND PLUG SET	2
E3	4	EXHAUST HOOD CONTROL POWER AND ROOM TEMPERATURE SENSOR	1EA	120	1	X	-	-	20	-	+48"	CONNECT TO DEMANDAIRE CONTROL PANEL RECESS IN WALL REFER TO FSS.2	3 6
E4	4.1	EXHAUST HOOD FIRE SYSTEM CONTROL POWER	1EA	120	1	X	-	-	20	-	+104"	PROVIDE J-BOX CONNECT TO UNIT ELECTRICAL CONNECTION REFER TO FSS.3 INTERCONNECTION REQUIREMENTS	
E5	4.1	FIRE SYSTEM (REMOTE PULL STATION)	1EA	-	-	X	-	-	-	-	+48"	EMPTY FLUSH MTD. OCTAGONAL BOX (REMOTE PULL) SEE FSS.3	5
E6	5	COMBI OVEN, ELECTRIC TOP AND BOTTOM UNIT REQUIREMENTS	2EA	480	3	X	-	-	35	-	1 @ +48" 1 @ +24"	PROVIDE J-BOX CONNECT TO UNIT ELECTRICAL CONNECTION	4 7
E7	6	INDUCTION COOK TOP	1EA	240	1	-	X	6-50P	-	32	+48"	PROVIDE SIMPLEX RECEPTACLE UNIT PROVIDED WITH CORD AND PLUG SET	4
E8	10	HIGH TEMP WARE WASHER W/ SINGLE POINT CONNECTION	1EA	208/240	3	X	-	-	35	-	+18"	PROVIDE J-BOX CONNECT TO UNIT ELECTRICAL CONNECTION	
E9	17.1	HOT WELLS, DRY	1EA	208	1	-	X	6-20P	-	9.6	+18"	PROVIDE SIMPLEX RECEPTACLE PROVIDED WITH CORD AND PLUG SET	

ELECTRICAL KEYNOTES:

- 1 PROVIDE 1 PLUNGER ROLLER SWITCH PER DOOR
- 2 CONTRACTOR TO VERIFY AND PROVIDE UTILITIES WITH SUPPLIED EQUIPMENT
- 3 SEE FSS.2 EXHAUST HOOD ELECTRICAL INTERCONNECTIONS REQUIREMENTS
- 4 PROVIDE INTERLOCK WIRING FROM FIRE PROTECTION SYSTEMS TO ELEC. SHUNT TRIP BREAKERS
- 5 PROVIDE EMPTY FLUSH MTD. OCTAGONAL BOX @ +48" AFF. W/ EMPTY CONDUIT TO +2" ABOVE CEILING.
- 6 ELECTRICAL CONTRACTOR TO PROVIDE J-BOX W/ EMPTY CONDUIT FROM +2" ABOVE CEILING IN WALL TO AMBIENT TEMPERATURE MONITOR AND HMI TOUCH SCREEN.
- 7 AMP DRAW REQUIREMENTS ARE ONE PER DECK. BOTTOM DECK CONNECTION @ 24" AFF TOP DECK @ 48" AFF. TWO CONNECTIONS IN TOTAL.

ELECTRICAL NOTES

1. THE ELECTRICAL CONTRACTOR SHALL PROVIDE ALL ROUGH-INS, FINAL CONNECTIONS AND INTER-CONNECTIONS TO THE FOOD SERVICE EQUIPMENT
2. CONNECTIONS SHOWN ARE FOR THE FOOD SERVICE EQUIPMENT ONLY. REFER TO ELECTRICAL DRAWINGS FOR CONVENIENCE OUTLETS AND ADDITIONAL REQUIREMENTS.
3. RECEPTACLES, JUNCTION/HANDY BOXES INDICATED AT WALLS SHALL BE CONCEALED IN THE WALL AND STUBBED OUT OF THE WALL AT THE HEIGHT INDICATED.
4. RECEPTACLES, JUNCTION/HANDY BOXES INDICATED AT WALLS SHALL BE CONCEALED IN THE WALL AT THE HEIGHT INDICATED.
5. VERTICAL DIMENSIONS ARE GIVEN FROM FINISHED FLOOR TO CENTER LINE OF ROUGH-IN LOCATION.
6. UTILITIES WHEREVER POSSIBLE SHALL BE BROUGHT IN FROM ABOVE.
7. VERIFY THE UTILITY REQUIREMENTS OF OWNER FURNISHED AND/OR EXISTING EQUIPMENT.
8. THE ELECTRICAL CONTRACTOR SHALL FURNISH AND/OR INSTALL ALL JUNCTION/HANDY BOXES, EXTENSION RINGS, DISCONNECT SWITCHES AS SHOWN, CONVENIENCE OUTLETS WITH STAINLESS STEEL OVERS, SWITCHES, CONNECTORS, CONTROLS AND OTHER ACCESSORIES THAT ARE NOT AN INTEGRAL PART OF THE FOOD SERVICE EQUIPMENT AS REQUIRED TO MAKE FINAL CONNECTIONS TO THE EQUIPMENT FOR A COMPLETE AND OPERABLE OPERATION MEETING ALL APPLICABLE CODES AND ORDINANCES.
9. JUNCTION/HANDY BOXES, CONVENIENCE OUTLETS AND SPECIAL PURPOSE OUTLETS SHOWN IN FABRICATED WORK TABLES AND COUNTERS SHALL BE FURNISHED BY FABRICATOR. ELECTRICAL CONTRACTOR TO PROVIDE ALL WIRING & RECEPTACLES.

EXHAUST HOOD ELECTRICAL NOTES

1. - ELECTRICAL CONTRACTOR TO PROVIDE ALL HIGH/LOW VOLTAGE CONNECTIONS REQUIRED BY EXHAUST HOOD MANUFACTURER. SEE FOODSERVICE EXHAUST HOOD MANUFACTURER SHEETS FOR DETAILS.
2. - ALL ELECTRICAL CONDUIT THAT IS PROVIDED BY E.C. TO BE RECESSED IN WALL (NO SURFACE MOUNT CONDUIT)
3. - VERIFY ALL EXHAUST HOOD AND EXHAUST HOOD COMPONENTS ELECTRICAL REQUIREMENTS WITH MANUFACTURER DRAWINGS.

ELECTRICAL PLAN LEGEND

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
AFF	ABOVE FINISHED FLOOR	⊙	ROOM TEMPERATURE SENSOR
CLG.	CEILING	⊕	JUNCTION BOX
CONN.	CONNECT	▲	DATA OUTLET
E.C.	ELECTRICAL CONTRACTOR	Ⓟ	EMPTY OCTAGONAL BOX W/ CONDUIT TO +2" ABOVE CEILING BY E.C
FS/EC	FOOD SERVICE EQUIPMENT CONTRACTOR	⊙	VAPOR-PROOF LIGHT FIXTURE AT EXHAUST HOOD (PROVIDED BY F.S.E.C. INSTALLED BY E.C.)
G.C.	GENERAL CONTRACTOR	⊕	STUBBED-UP SIMPLEX OUTLET
P.R.P.	PRESSURE RELIEF PORT	⊖	SIMPLEX OUTLET SEE SCHEDULE FOR VOLTAGE
S.F.	STAINLESS STEEL FABRICATOR	⊖	DUPLEX CONVENIENCE OUTLET 115V/10 UNLESS OTHERWISE NOTED
M.C.	MECHANICAL CONTRACTOR		
LOC.	LOCATE		
Ⓜ	ELECTRICAL SCHEDULE REFERENCE, REFER TO FS3.2 FOR SCHEDULE		
Ⓜ 1	SHEET AND/OR KEY NOTE		

ELECTRICAL SHEET NOTES

AGENCY APPROVAL:



HMC Architects

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SACRAMENTO, CA 95831

PROJECT:
MATSUYAMA ELEMENTARY SCHOOL MODERNIZATION

SHEET NAME: **FOODSERVICE EQUIPMENT ELECTRICAL PLAN**

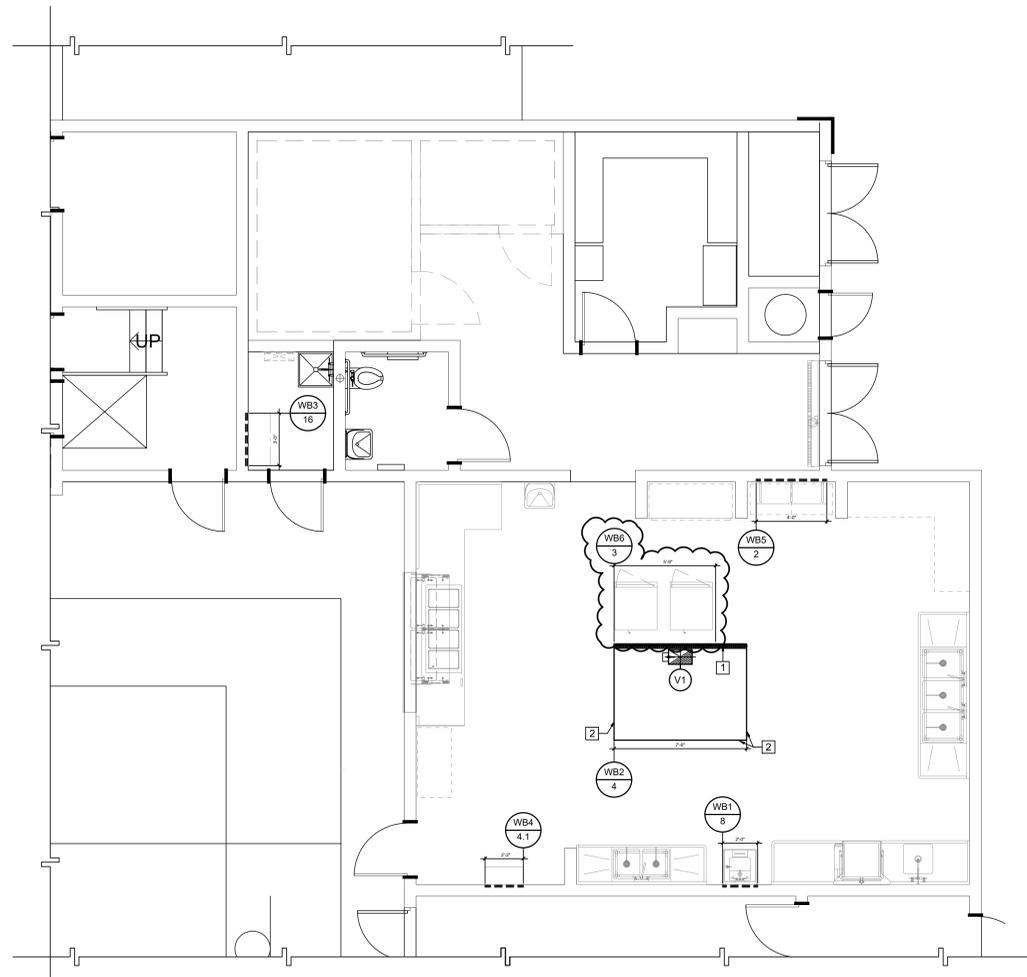
DSA SUBMITTAL

DATE: 01/04/2024 CLIENT PROJ NO.: 3186-070-000

SHEET:

FS3.1

ALL WORK SHALL BE IN ACCORDANCE WITH THE CITY OF SACRAMENTO SPECIFICATIONS



FOODSERVICE EQUIPMENT MECHANICAL PLAN

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

1
FS4.1

VENTILATING REQUIREMENTS										
DUCT NO.	ITEM NO.	DESCRIPTION	ITEM QTY.	RISER SIZE			S.P.-WC"	OUTLET HEIGHT	REMARKS	
				HEIGHT	WIDTH	LENG.				
V1	4	EXHAUST DUCT EXHAUST HOOD	1EA.	8"	10"	16"	1575	0.63"	108"	MAKE DUCT CONNECTION AT HOOD COLLAR REFER TO FS4.1 FOR EXHAUST HOOD DETAILS

- COOKING EXHAUST HOOD NOTES**
- EACH AREA CONTAINING COOKING EXHAUST HOOD(S) WILL HAVE 80% MECHANICAL MAKE-UP AIR PROVIDED IN THE VOLUME OF THE AIR BEING EXHAUSTED.
 - MAKE-UP AIR SHALL BE DELIVERED IN THE PROXIMITY OF THE EXHAUST HOOD(S) IN A MANNER NOT TO CREATE UNDESIRABLE AIR TURBULENCE IN THE WORKING AREAS.
 - COOKING HOOD(S) EXHAUST AND MAKE-UP AIR SYSTEM(S) WILL BE CONNECTED BY AN ELECTRICAL INTER-LOCKING SWITCH.
 - MAKE-UP AIR INTAKE MUST CLEAR AIR EXHAUST DISCHARGE BY A MINIMUM OF TEN (10) FEET, OR AS REQUIRED BY CODE(S).
 - LOCATION OF COOKING HOOD EXHAUST DUCT(S) AND MAKE-UP AIR SYSTEM DUCT(S) ARE TO BE VERIFIED AT THE JOB SITE.
 - IF REQUIRED BY LOCAL CODE(S), MAKE-UP AIR SYSTEM(S) SHALL BE CAPABLE OF DELIVERING TEMPERED AIR AT 70 DEGREES F.
 - CONNECTING DUCTS FROM THE EXHAUST VENTILATORS TO THE EXHAUST AND/OR MAKE-UP AIR FANS SHALL BE SUPPLIED AND INSTALLED WITH ALL FINAL CONNECTIONS.
 - PERFORMANCE TESTING FOR THE OPERATION OF THE TYPE 1 EXHAUST HOOD PER C.M.C. IS REQUIRED.
 - EXTRACTOR HOODS SHALL COMPLY TO THE C.M.C. 2022, NFPA-2020, U.L. N.S.F. AND ALL LOCAL CODES AND ORDINANCES.

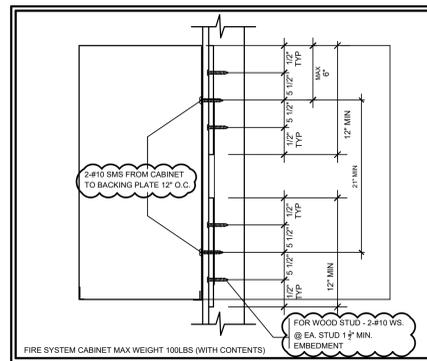
- WALL BACKING NOTES**
- WALL BACKING TO BE 16 GAUGE GALV. STEEL IN LENGTH AND HEIGHT AS SHOWN ON DRAWINGS.
 - ALL WALL BACKING TO BE IN FURNISHED AND INSTALLED BY CONTRACTOR.
 - FOOD SERVICE EQUIPMENT CONTRACTOR IS TO FURNISH CONTRACTOR WITH DETAILED DRAWINGS SHOWING ALL WALL BACKING LOCATION AND SIZE.
 - WALL BACKING AS SHOWN IS MINIMUM, EXTEND BACKING TO NEXT STUD EACH DIRECTION AS NECESSARY.

WALL BACKING SCHEDULE

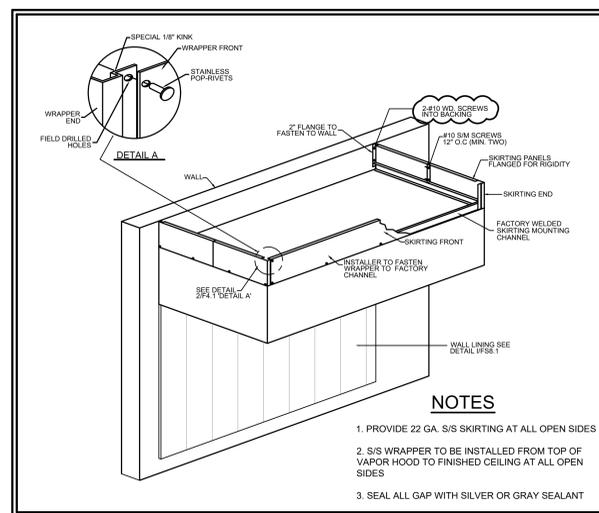
APPLICATION	BOTTOM OF BACKING	BACKING HGT.	FASTENERS PER STUD	ANCHORAGE DETAIL
WB1 8 HAND SINK	+16" AFF	26" HIGH	4	B/FS8.2
WB2 4 WALL LINING	+75" AFF +53" AFF +29" AFF +6" AFF	12" HIGH	3	I/FS8.1
WB3 16 WALL MTD. CABINET	+60" AFF +82" AFF	12" HIGH	4	H/FS8.1
WB4 4.1 WALL MTD. FIRE SYSTEM	+80" AFF +102" AFF	12" HIGH	4	4/FS4.1
WB5 2 WALL SHELF	+50" AFF	12" HIGH	3	G/FS8.1
WB6 3 MOBILE WARMER	+62" AFF +30" AFF	12" HIGH	4	K/FS8.2

NOTES:

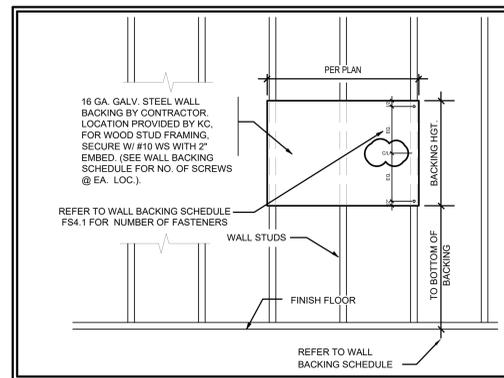
- BACKING TO BE 16 GA. G.I. OR C.R.S.
- REFER TO 1/FS4.1 FOR WALL BACKING LOCATIONS
- BACKING TO A MINIMUM OF 2 STUDS PER LOCATION, IF BACKING SPANS MORE THAN TWO STUDS CONNECTION AT EACH STUD IS REQUIRED.



WALL MOUNTED FIRE CABINET 4 FS4.1



CLOSURE SKIRTING AT HOOD 2 FS4.1



WALL BACKING DETAIL 3 FS4.1

- MECHANICAL SHEET NOTES**
- 18 GA. STAINLESS STEEL WALL LINING PANELS (MINIMUM WIDTH TO BE 36") WITH 1" MINERAL WOOL BLANKET AND WIRE MESH BACKING OR CERAMIC FIBER BLANKET AND WIRE MESH BACKING SPACES OUT 1" ON NON-COMBUSTIBLE SPACERS WALL LINING TO MEET THE REQUIREMENTS OF NFPA-96 AND LOCAL CODES. WALL LINING SHALL BE FABRICATED WITH VERTICAL FLUTES EVERY 6" AS SHOWN, AND THE WIDTH OF THE EXHAUST HOOD INCLUDING FIRE SYSTEM CABINET
 - PROVIDE STAINLESS STEEL CLOSURE SKIRTING, REFER TO 2/FS4.1

FOODSERVICE MECHANICAL LEGEND

ABREV./SYMB.	DESCRIPTION	ABREV./SYMB.	DESCRIPTION
F.S.E.C	FOODSERVICE EQUIPMENT CONTRACTOR	VE	VENTILATING SCHEDULE REFERENCE REFER TO FS4.1 FOR SCHEDULE
M.C.	MECHANICAL CONTRACTOR	1	KEYNOTE SYMBOL (SEE SHEET NOTES FS4.1)
S.F.	STAINLESS STEEL FABRICATOR	---	WALL BACKING
G.C.	GENERAL CONTRACTOR	#	BLOCKING TYPE REFER TO FS4.1
E.C.	ELECTRICAL CONTRACTOR	#	EXHAUST DUCT CONNECTION
CFM	CUBIC FEET PER MINUTE		
SP	STATIC PRESSURE		
	INSULATED S/S WALL LINING 1/FS4.1 FOR LOC.		

AGENCY APPROVAL:



HMC Architects

3186-070-000

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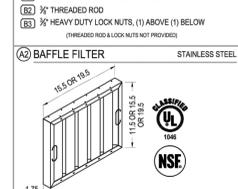
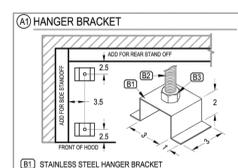
SHEET NAME: **FOODSERVICE EQUIPMENT MECHANICAL PLAN**

DSA SUBMITTAL

DATE: 01/04/2024 CLIENT PROJ NO: 3186-070-000

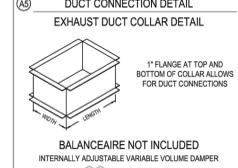
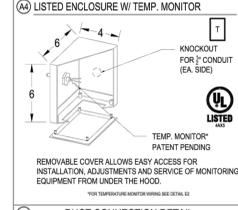
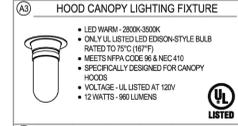
FS4.1

THIS DRAWING AND ANY PARTS THEREOF ARE THE PROPERTY OF STREIVOR, INC. AND SHALL REMAIN THE PROPERTY OF STREIVOR, INC. IF REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, WITHOUT THE WRITTEN PERMISSION OF STREIVOR, INC.



FILTER:		#4		QTY		AREA	
H x L	EFF. AREA						
1818	1.36	x	4			5.44	
1820	1.75	x	1			1.75	
TOTAL EFF. AREA =		7.19					

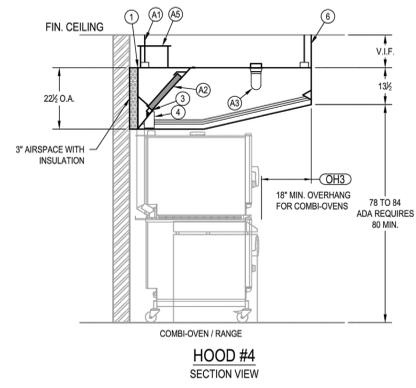
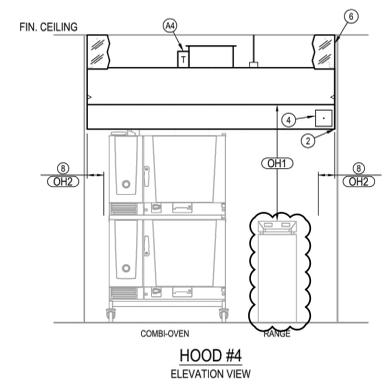
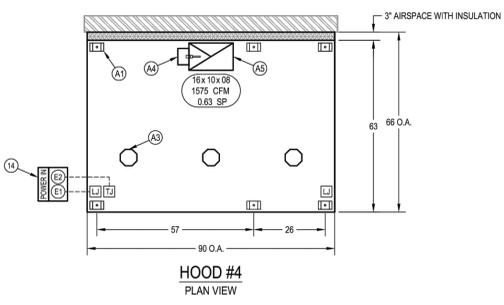
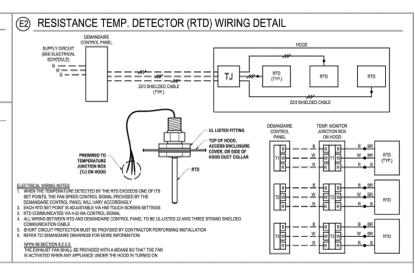
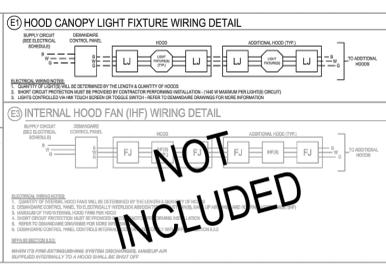
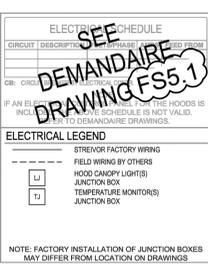
HOOD EX. CFM = TOTAL EFF. AREA x FPM
OPERATING RANGE OF THE FILTER (200 TO 400 FPM)



HOOD SCHEDULE				EXHAUST				DIST. FROM COOKING SURFACE TO LOWER EDGE OF HOOD:		MINIMUM OVERHANG OVER HOOD:		EQUIP. DUTY TEMPERATURE:	
NO.	MODEL	L	W	H	WEIGHT	SPEC. CFM	SP	CFM/FT	MIN.	MAX.	SIDE	FRONT	MAX.
4	WCLC 906322.5	90	63	22.5	499	1575	0.63	210	36	48	6	6	450

HOOD CANOPY MATERIAL: ALL 304 SERIES STAINLESS STEEL

HOOD LEGEND		ENCLOSURE PANEL		SEE ELECTRICAL SCHEDULE - CONSULT FACTORY FOR ALTERNATE INPUT POWER LOCATIONS	
1	ALL WELDED ENCLOSURE	1	ENCLOSURE PANEL	14	SEE ELECTRICAL SCHEDULE - CONSULT FACTORY FOR ALTERNATE INPUT POWER LOCATIONS
2	16 GA. SIDES, REMAINDER OF HOOD TO BE NO LESS THAN 18 GA.				
3	PITCHED GREASE DUMP TRAY				
4	ENCLOSED METAL CONTAINER				



GENERAL NOTES:

NOTES TO ARCHITECT AND/OR CONTRACTOR: STREIVOR, INC. (STREIVOR AIR SYSTEMS, STREIVOR STAINLESS) IS A SPECIALIST IN THE LAYOUT AND DESIGN OF KITCHEN VENTILATION SYSTEMS, AND IN NO WAY PURPORTS TO BE ARCHITECTS OR ENGINEERS.

THIS PLAN IS SUBMITTED FOR THE CONVENIENCE OF THE ARCHITECT AND/OR CONTRACTOR AND IS DONE FROM AVAILABLE ARCHITECTURAL INFORMATION. ALL MEASUREMENTS ARE SUBJECT TO PHYSICAL VERIFICATION AND ANY DEVIATIONS OR DISCREPANCIES SHALL BE DIRECTED TO THE ATTENTION OF STREIVOR, INC. IN WRITING.

STREIVOR, INC. ACCEPTS NO RESPONSIBILITY FOR WORK DONE BY SAID ARCHITECT OR GENERAL CONTRACTOR OR THEIR REPRESENTATIVES OR SUBCONTRACTORS, AND WILL NOT STAND ANY EXPENSE FOR CHANGES MADE NECESSARY DUE TO LOCAL BUILDING CODES, ORDINANCES, STRUCTURAL CONDITIONS, OR BY ANY SUBSTITUTIONS OR CHANGES IN EQUIPMENT SHOWN ON THIS PLAN.

ANY ERRORS, AMBIGUITIES OR OMISSIONS IN THIS PLAN OR SPECIFICATIONS SHALL BE REPORTED TO STREIVOR, INC. FOR CORRECTIONS BEFORE ANY OF THE WORK IS STARTED. UNLESS EXPRESSLY STIPULATED, NO ADDITIONAL OLVANCE WILL BE MADE IN FAVOR OF THE OWNER OR CONTRACTOR. BY WRITING OF ERROR, AMBIGUITY OR OMISSION WHICH SHOULD HAVE BEEN DISCOVERED DURING THE PREPARATION OF BID ESTIMATES, AND DIRECTED TO THE ATTENTION OF STREIVOR, INC. IN A TIMELY MANNER.

PRE - INSTALLATION

OBTAIN, READ AND UNDERSTAND STREIVOR'S HOOD INSTALLATION, OPERATION AND MAINTENANCE MANUAL PRIOR TO INSTALLATION, STARTUP OR BALANCING.

INSTALLATION

ALL INSTALLATION, STARTUP AND BALANCING MUST BE PERFORMED BY QUALIFIED PERSONS AND IN ACCORDANCE WITH ALL APPLICABLE PREVALING CODES AND STANDARDS.

STANDARD NFPA 96 HOOD CLEARANCES

12" TO NON-COMBUSTIBLE MATERIALS
18" TO LIMITED-COMBUSTIBLE MATERIALS
18" TO COMBUSTIBLE MATERIAL

OVERHEAD CLEARANCES

12" CLEARANCE IS REQUIRED ABOVE THE HOOD
18" CLEARANCE IS REQUIRED ABOVE THE HOOD

REQUIRED CLEARANCES

REDUCED CLEARANCES MAY BE AVAILABLE, CONSULT FACTORY FOR REDUCED CLEARANCE OPTIONS.

TEST AND BALANCE

THE SPECIFIED EXHAUST CFMS LISTED ON THIS DRAWING MUST BE MET DURING TEST AND BALANCE OF THE HOOD SYSTEMS.
VARIANCE EXHAUST ± 2% ± 10%
VARIANCE SUPPLY ± 10% ± 2%

STREIVOR™ AIR SYSTEMS

"STRIVING FOR EXCELLENCE"

2150 KITTY HAWK ROAD, LIVERMORE, CA 94551
PHONE: (925) 960-9090 FAX: (925) 960-9055
WWW.STREIVOR.COM

PROJECT: **MATSUYAMA ES**

7680 WINDBRIDGE DR.
SACRAMENTO, CA 95831

AMD FOODSERVICE DESIGN

HOOD #: 4
DATE: 11/28/2023
DRAWN BY: TN
CHECKED BY: KCS
CONSULTANT: AMD FOODSERVICE DESIGN

SCALE: AS SHOWN (DIMENSIONS METRIC) 1/2" = 1'-0"

NO.	DESCRIPTION	DATE	INT.
1	PLAN CHECK COMMENTS	02/28/24	KCS
2			
3			
4			

DRAWING: **H-01**

SHEET 01 OF 01
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AGENCY APPROVAL:



HMC Architects
3186-070-000

2101 CAPITOL AVENUE, SUITE 100,
SACRAMENTO, CA, 95816
916.388.7000 / www.hmcarchitects.com

ISSUE	DATE
1. DESCRIPTION	03/01/2024
2. ADDENDUM #1	



FACILITY: **MATSUYAMA ELEMENTARY SCHOOL**
7680 WINDBRIDGE DR.
SACRAMENTO, CA 95831

PROJECT: **MATSUYAMA ELEMENTARY SCHOOL MODERNIZATION**

SHEET NAME: **FOODSERVICE EQUIPMENT EXHAUST HOOD DETAILS**

DSA SUBMITTAL

DATE: 01/04/2024 CLIENT PROJ NO: 3186-070-000

FS5.1

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LISTINGS & STANDARDS

THIS RET CHEMICAL EXTINGUISHING SYSTEM IS ENGINEERED TO PROVIDE FIRE PROTECTION FOR RESTAURANT HOODS, DUCTS AND COOKING APPLIANCES. IS UL 300 LISTED AND IS TO BE INSTALLED IN ACCORDANCE WITH THE FOLLOWING STANDARDS:

- NFPA 7A 2021 EDITION
- NFPA 70 2018 EDITION
- NFPA 96 2021 EDITION

SECTIONS & CODES

NFPA 96 2021 EDITION

(8.2.1) MAXIMUM TRAVEL DISTANCE SHALL NOT EXCEED 30 FT (9.1 M) FROM THE HAZARD TO THE EXTINGUISHER(S).

(8.2.1.1) EACH MANUAL ACTUATION DEVICE SHALL BE INSTALLED NO MORE THAN 48 IN. (1200 MM) AND NO LESS THAN 42 IN. (1070 MM) ABOVE THE FLOOR.

(8.2.1.2) A HOOD EXHAUST FAN SHALL CONTINUE TO OPERATE AFTER THE EXTINGUISHING SYSTEM HAS BEEN ACTIVATED UNLESS FAN SHUTDOWN IS REQUIRED BY A LISTED COMPONENT OF THE VENTILATION SYSTEM OR BY THE DESIGN OF THE EXTINGUISHING SYSTEM.

(8.2.2) THE HOOD EXHAUST FAN SHALL START UPON ACTIVATION OF THE EXTINGUISHING SYSTEM IF THE EXHAUST FAN AND ALL COOKING EQUIPMENT SERVED BY THE FAN HAVE BEEN SHUT DOWN, UNLESS FAN SHUTDOWN IS REQUIRED BY A LISTED COMPONENT OF THE VENTILATION SYSTEM OR BY THE LISTING OF THE EXTINGUISHING SYSTEM.

(8.2.3) WHEN THE FIRE EXTINGUISHING SYSTEM ACTIVATES, MAKEUP AIR SUPPLIED INTERNALLY TO A HOOD SHALL BE SHUT OFF.

(8.4.1) UPON ACTIVATION OF ANY FIRE EXTINGUISHING SYSTEM FOR A COOKING OPERATION, ALL SOURCES OF FUEL AND ELECTRICAL POWER THAT PRODUCE HEAT TO ALL EQUIPMENT REQUIRING PROTECTION BY THAT SYSTEM SHALL AUTOMATICALLY SHUT OFF.

(8.4.2) GAS APPLIANCES NOT REQUIRING PROTECTION BUT LOCATED UNDER VENTILATING EQUIPMENT WHERE PROTECTED APPLIANCES ARE LOCATED SHALL BE AUTOMATICALLY SHUT OFF UPON ACTIVATION OF THE EXTINGUISHING SYSTEM.

(8.4.3) SHUTOFF DEVICES SHALL REQUIRE MANUAL RESETTING PRIOR TO FUEL, POWER BRING RESTORED.

(8.5.1.1) AT LEAST ONE MANUAL ACTUATION DEVICE SHALL BE LOCATED IN A MEANS OF EGRESS OR AT A LOCATION ACCEPTABLE TO THE AUTHORITY HAVING JURISDICTION.

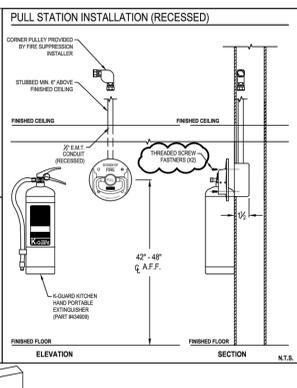
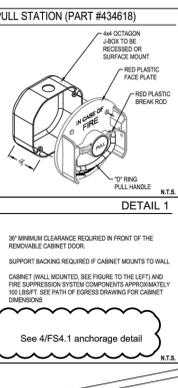
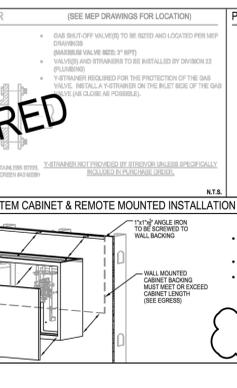
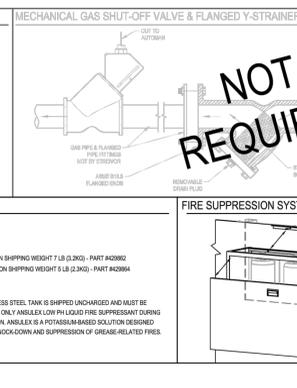
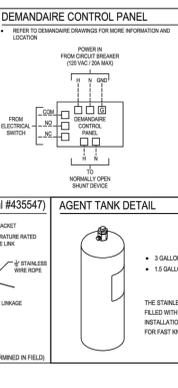
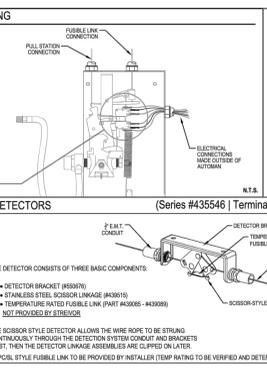
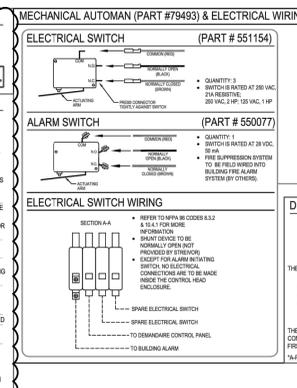
(8.5.1.2) THE MANUAL ACTUATION DEVICE SHALL CLEARLY IDENTIFY THE HAZARD PROTECTED.

CMC 2022 EDITION

(913.3) ALL SYSTEMS SHALL HAVE BOTH AUTOMATIC AND MANUAL METHODS OF ACTIVATION. AT LEAST ONE MANUAL ACTUATION DEVICE SHALL BE LOCATED IN A MEANS OF EGRESS OR AT A LOCATION ACCEPTABLE TO THE AUTHORITY HAVING JURISDICTION.

INSTALLATION REQUIREMENTS

- ALL PIPING SHALL BE SCHEDULE 40 BLACK IRON, CHROME PLATED, SERVED WHERE EXPOSED.
- ALL CYLINDER SYSTEMS SHALL HAVE SUPPLY LINES AND 3/8" BRANCH LINES.
- ALL WIRE SHALL BE 1/8" STAINLESS STEEL AND RUN THROUGH 1/2" EMT CONDUIT.
- ALL LISTED CONDUIT PALLETS REQUIRED WHENEVER THE STAINLESS STEEL CABLE DIRECTION CHANGES.
- ALL EQUIPMENT WITH FIRE PROTECTION MUST BE SECURED TO FLOOR, NOT BY STREIVOR.
- SMELLS ADAPTERS MAY BE ADDED TO HOODS FOR UP TO 30" PROTECTION.



SYSTEM #1

CABLELINE LIMITATIONS

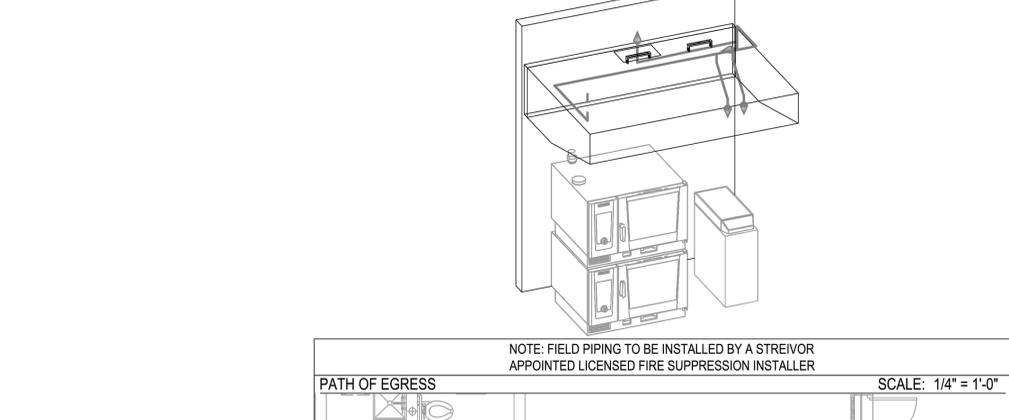
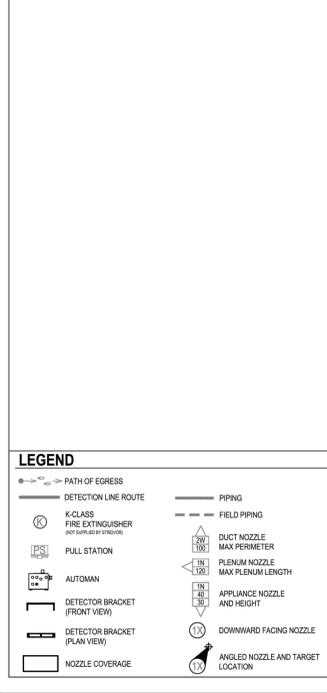
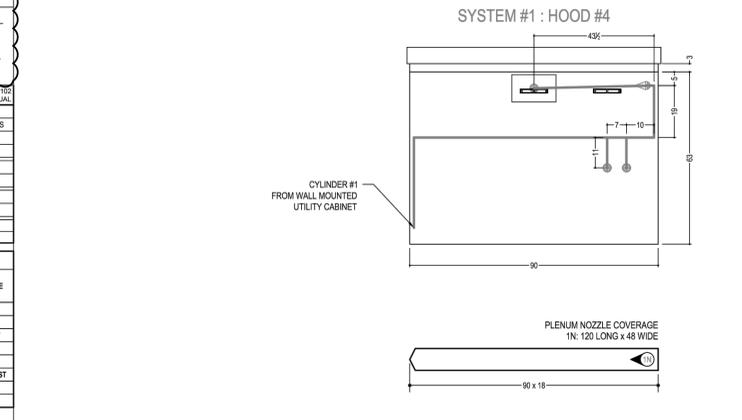
COMPONENT	LENGTH	PALLEYS	BRACKETS
FIBER LINK (99-4-71)	MAXIMUM 150.00 FT	20	15
ALLOTTED	25.00 FT	3	2*
PULL STATIONS (99-4-73)	MAXIMUM 150.00 FT	20	N/A
ALLOTTED	15.00 FT	2	N/A
GAS VALVE(S) (99-4-74)	MAXIMUM 150.00 FT	20	N/A
ALLOTTED	-- FT	--	N/A
GAS CARTRIDGE(S) (99-4-81)	MODEL LT-30-R	--	--
PART NUMBER	423435	--	--

CYLINDER #1

COVERAGE DESCRIPTION	NOZZLE	QTY.	FLOW POINTS	PAGE
DUCT	2W	1	2	4-1
PLENUM	1N	1	1	4-5
RANGE	1F	2	2	4-17
TOTAL FLOW POINTS 5				

PIPING LIMITATIONS

CYLINDER	FLOW POINTS	SUPPLY	DUCT	PLENUM	EQUIP.	FIRST TO LAST
1.5 GAL	MAXIMUM 5	40 FT	6 FT	4 FT	10 FT	8 FT
ALLOTTED	5	24 FT	4 FT	1 FT	3 FT	4 FT



INSTALLER:

GENERAL NOTES:

REFER TO ARCHITECT AND/OR CONTRACTOR, STREIVOR, INC. GENERAL AIR SYSTEMS SPECIFICATIONS AND SCHEDULES FOR THE LOCATION AND DESIGN OF FRESH AIR INTAKE SYSTEMS, AND IN NO WAY PURPORTS TO BE ARCHITECTS OR ENGINEERS.

THIS DRAWING IS THE PROPERTY OF STREIVOR, INC. AND IS NOT TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM, WITHOUT THE WRITTEN PERMISSION OF STREIVOR, INC.

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ANY WORKER, WHETHER FIELD OR OFFICE, SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING UTILITIES AND STRUCTURES, AND SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING UTILITIES AND STRUCTURES. STREIVOR, INC. SHALL NOT BE RESPONSIBLE FOR ANY DAMAGE TO EXISTING UTILITIES AND STRUCTURES OR FOR ANY CHANGES MADE TO THIS DRAWING, SPECIFICATIONS, OR SCHEDULES.

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PROJECT: **MATSUYAMA ES**

7680 WINDBRIDGE DRIVE
SACRAMENTO, CA 95831

AMD FOODSERVICE DESIGN

ITEM #	DESCRIPTION	DATE	INT
4.1		02/28/24	KCS

PLAN CHECK COMMENTS

F-01

SHEET 01 OF 01
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AGENCY APPROVAL:

Sacramento City
UNIFIED SCHOOL DISTRICT

HMC Architects

3186-070-000

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ISSUE

DESCRIPTION	DATE
ADDENDUM #1	03/01/2024

AMD
FOODSERVICE DESIGN

FACILITY: **MATSUYAMA ELEMENTARY SCHOOL**

PROJECT: **MATSUYAMA ELEMENTARY SCHOOL MODERNIZATION**

SHEET NAME: **FOODSERVICE EQUIPMENT EXHAUST HOOD DETAILS**

DSA SUBMITTAL

DATE: 01/04/2024 CLIENT PROJ NO: 3186-070-000

SHEET: **FS5.2**

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GENERAL NOTES

NOTES TO ARCHITECT AND/OR CONTRACTOR: STREIVOR, INC. (STREIVOR AIR SYSTEMS, STREIVOR STAINLESS) IS A SPECIALIST IN THE LAYOUT AND DESIGN OF KITCHEN VENTILATION SYSTEMS, AND IN NO WAY PURPORTS TO BE ARCHITECTS OR ENGINEERS. THIS PLAN IS SUBMITTED FOR THE CONVENIENCE OF THE ARCHITECT AND/OR CONTRACTOR AND IS DONE FROM AVAILABLE ARCHITECTURAL INFORMATION. ALL MEASUREMENTS ARE SUBJECT TO PHYSICAL VERIFICATION AND ANY DEVIATIONS OR DISCREPANCIES SHALL BE DIRECTED TO THE ATTENTION OF STREIVOR, INC. IN WRITING. STREIVOR, INC. ACCEPTS NO RESPONSIBILITY FOR WORK DONE BY SAID ARCHITECT OR GENERAL CONTRACTOR OR THEIR REPRESENTATIVES OR SUBCONTRACTORS, AND WILL NOT STAND ANY EXPENSE FOR CHANGES MADE NECESSARY DUE TO LOCAL BUILDING CODES, ORDINANCES, STRUCTURAL CONDITIONS, OR BY ANY SUBSTITUTIONS OR CHANGES IN EQUIPMENT SHOWN ON THIS PLAN. ANY ERRORS, AMBIGUITIES OR OMISSIONS IN THIS PLAN OR SPECIFICATIONS SHALL BE REPORTED TO STREIVOR, INC. FOR CORRECTIONS BEFORE ANY OF THE WORK IS STARTED. UNLESS EXPRESSLY STIPULATED, NO ADDITIONAL ALLOWANCE WILL BE MADE IN FAVOR OF THE OWNER OR CONTRACTOR, BY VIRTUE OF ERROR, AMBIGUITY OR OMISSION WHICH SHOULD HAVE BEEN DISCOVERED DURING THE PREPARATION OF BID ESTIMATES, AND DIRECTED TO THE ATTENTION OF STREIVOR, INC. IN A TIMELY MANNER.

PRE-INSTALLATION

OBTAIN, READ AND UNDERSTAND STREIVOR'S DEMANDAIRE INSTALLATION, OPERATION AND MAINTENANCE MANUAL PRIOR TO INSTALLATION, OR STARTUP OR BALANCING.

INSTALLATION

ALL INSTALLATION AND STARTUP MUST BE PERFORMED BY QUALIFIED PERSONS AND IN ACCORDANCE WITH ALL APPLICABLE PREVAILING CODES AND STANDARDS.

WIRING NOTES

- FIELD WIRING TERMINALS USE COPPER WIRE ONLY
- WIRE MUST BE RATED UP TO 600V
- WIRE TEMPERATURE RATING 60° C MIN
- LARGE TERMINAL BLOCK TIGHTENING TORQUE 1.5 - 1.8 (NM)
- SMALL TERMINAL BLOCK TIGHTENING TORQUE 0.6 - 0.8 (NM)
- SHIELDS OF SHIELDED CABLES MUST BE GROUNDED ON ONE SIDE.

COMMISSIONING NOTES

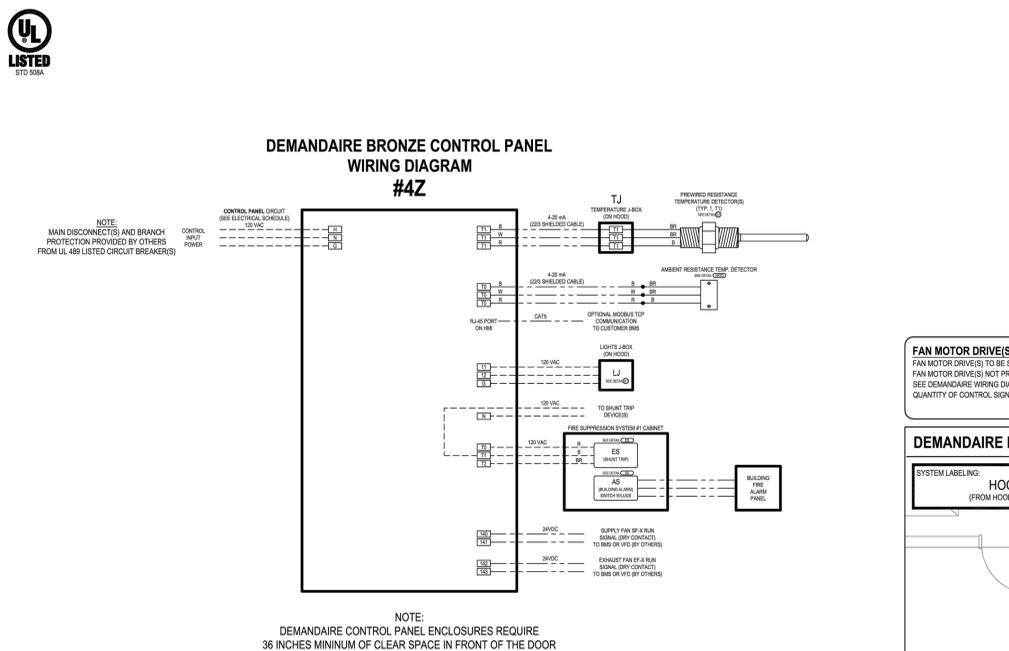
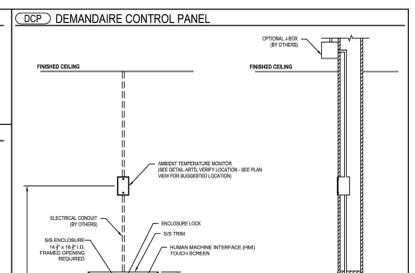
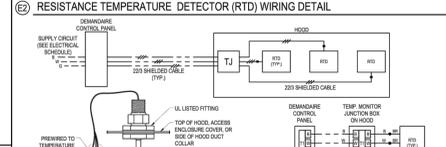
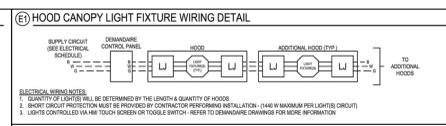
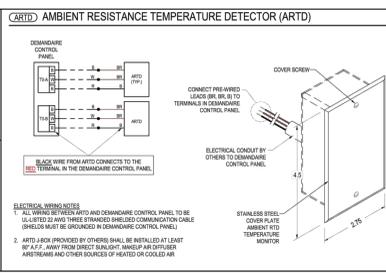
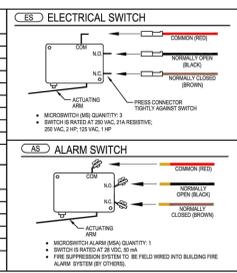
IF COMMISSIONING IS INCLUDED, STREIVOR'S DEMANDAIRE PRE-COMMISSIONING CHECKLIST MUST BE SIGNED AND RETURNED BY THE CUSTOMER A MINIMUM OF 15 CALENDAR DAYS PRIOR TO THE REQUESTED COMMISSIONING DATE TO AVOID INCURRING ADDITIONAL TRAVEL AND/OR EXPEDITING COSTS.

LEGEND

- STREIVOR FACTORY WIRING
- HIGH VOLTAGE FIELD WIRING BY OTHERS
- 120V VAC FIELD WIRING BY OTHERS
- LOW VOLTAGE FIELD WIRING BY OTHERS
- 120V VAC ELECTRICAL CONDUIT (SEE ELECTRICAL SCHEDULE FOR QUANTITY AND SIZE)
- LOW VOLTAGE ELECTRICAL CONDUIT (SEE ELECTRICAL SCHEDULE FOR QUANTITY AND SIZE)
- HOOD CANOPY LIGHT(S) JUNCTION BOX
- TEMP. MONITOR(S) JUNCTION BOX
- INTERNAL HOOD FAN(S) JUNCTION BOX
- TEMPERATURE MONITOR
- VARIABLE FREQUENCY DRIVE
- BUILDING MANAGEMENT SYSTEM

HOOD SCHEDULE		ELECTRICAL SCHEDULE	
HOOD #	GROUP	SUPPLY FAN	EXHAUST FAN
4	SF-X	EF-X	1
CIRCUIT DESCRIPTION		CONTROL PANEL	--- 120/1 20 CB
REFER TO HOOD DRAWINGS FOR HOOD DETAILS		CB: CIRCUIT BREAKER BY ELECTRICAL CONTRACTOR	

ELECTRICAL ROUGH-IN SCHEDULE			
ITEM	DETAIL	ROUGH-IN REQUIREMENTS	ELECTRICAL CONDUIT
DEMANDAIRE CONTROL PANEL	DCP	14 1/4" X 16 1/4" I.D. FRAMED OPENING	120 VAC, 24 VDC, 4-20 mA
AMBIENT TEMPERATURE MONITOR	ARTD	2" X 4" J-BOX	4-20 mA
ELECTRICAL CONTRACTOR TO VERIFY ROUGH-IN LOCATION AND ELECTRICAL REQUIREMENTS			



DRAWING APPROVAL

THIS DRAWING MUST BE REVIEWED, SIGNED & RETURNED TO STREIVOR AIR SYSTEMS PRIOR TO THE START OF FABRICATION.

VERIFY THE FOLLOWING:

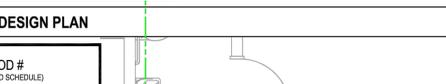
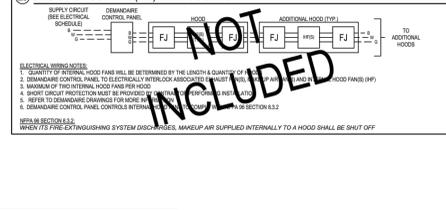
- ALL DIMENSIONAL INFORMATION, MOUNTING LOCATIONS & CLEARANCES.
- FAN HORSEPOWER, VOLTAGE & PHASE (IF VFDs OR MOTOR STARTERS ARE PROVIDED BY STREIVOR)

APPROVED FOR FABRICATION

APPROVED
 APPROVED AS NOTED
 REVISE & RESUBMIT

APPROVED BY: _____ DATE: _____

NOTE TO REVIEWER:
ANY CHANGES IN COOKING EQUIPMENT SUCH AS EQUIPMENT POSITION, TYPE AND/OR INCREASE IN ENERGY OUTPUT MAY AFFECT EXHAUST AIRFLOW. STREIVOR AIR SYSTEMS MUST BE NOTIFIED OF ANY CHANGES THAT OCCUR PRIOR TO FABRICATION, AS RE-ENGINEERING OF THE EXHAUST AIRFLOW MAY BE REQUIRED.



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PROJECT: **MATSUYAMA ES**

7880 WINDBRIDGE DR.
SACRAMENTO, CA 95831

AMD FOODSERVICE DESIGN

SHORT CIRCUIT CURRENT: 8KA RMS 120V MAXIMUM
"VERIFY JOB SITE REQUIREMENTS"

SERIAL NO. _____ DATE _____
CONTROL PANEL NO. _____
C.P. ENCLOSURE NO. _____
HMI ENCLOSURE NO. _____
ITEM # _____
MODEL: _____
DATE: 11/28/2023
DRAWN BY: JWS
CHECKED BY: HLF
CONSULTANT: AMD FOODSERVICE DESIGN

SCALE: _____ DATE: _____
DESCRIPTION: _____
DATE: _____
DATE: _____
DATE: _____

DRAWING: **DA-01**

SHEET 01 OF 01
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AGENCY APPROVAL:

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UNIFIED SCHOOL DISTRICT

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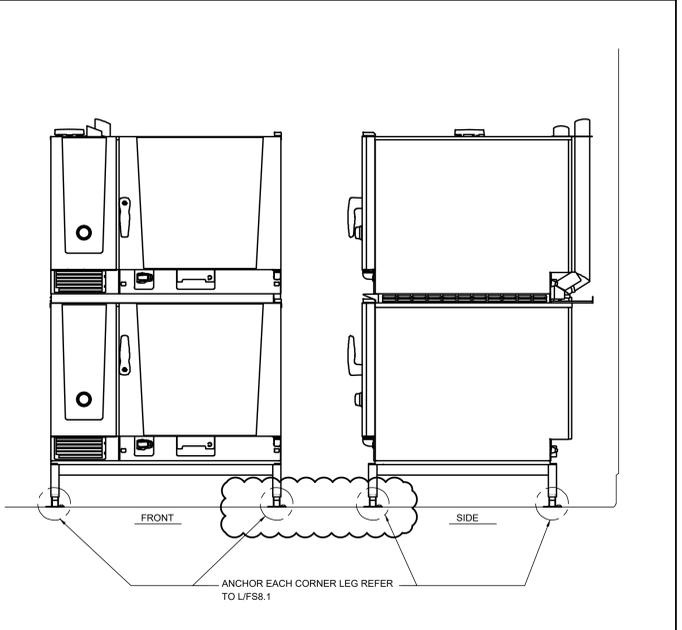
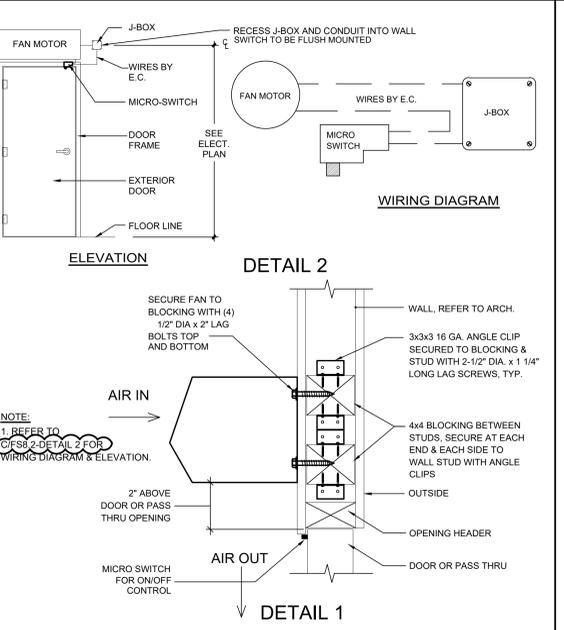
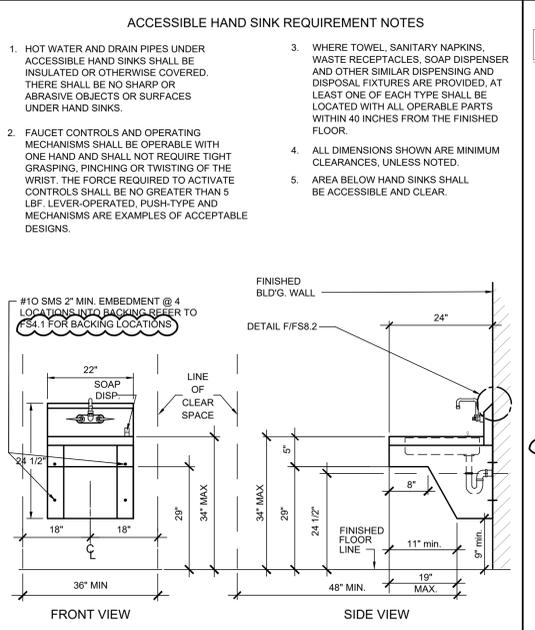
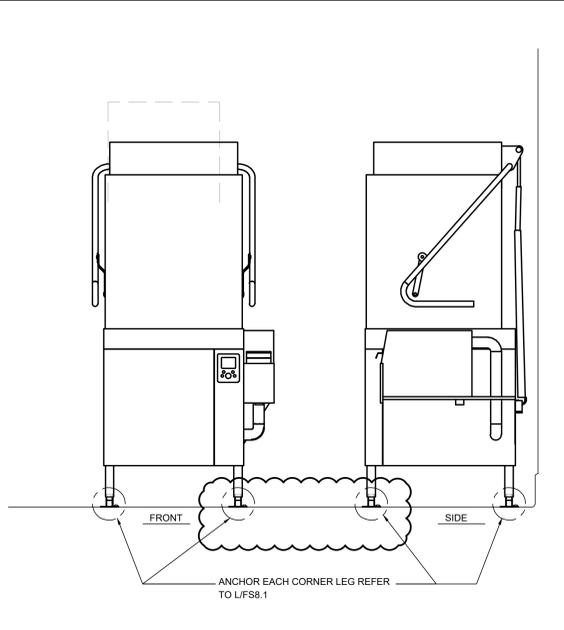
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SHEET NAME: **EXHAUST HOOD DETAILS**

DSA SUBMITTAL

DATE: 01/04/2024 CLIENT PROJ NO: 3186-070-000

SHEET: **FS5.3**

ALL LINE DRAWINGS TO BE
 EXAMINED FOR CONFORMANCE WITH
 THE FOLLOWING REQUIREMENTS:

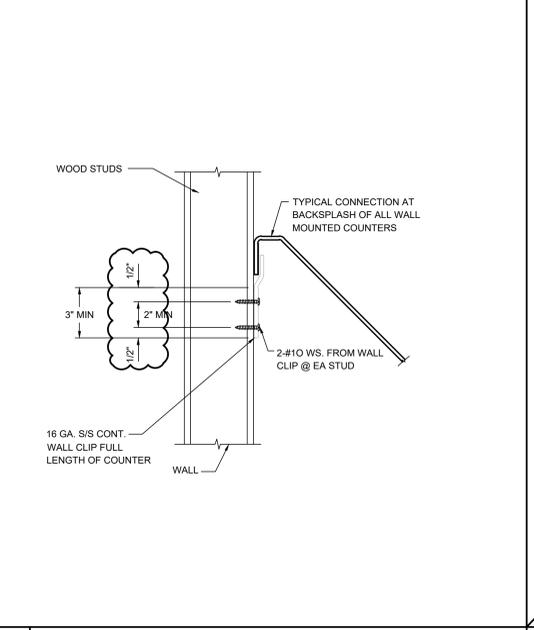
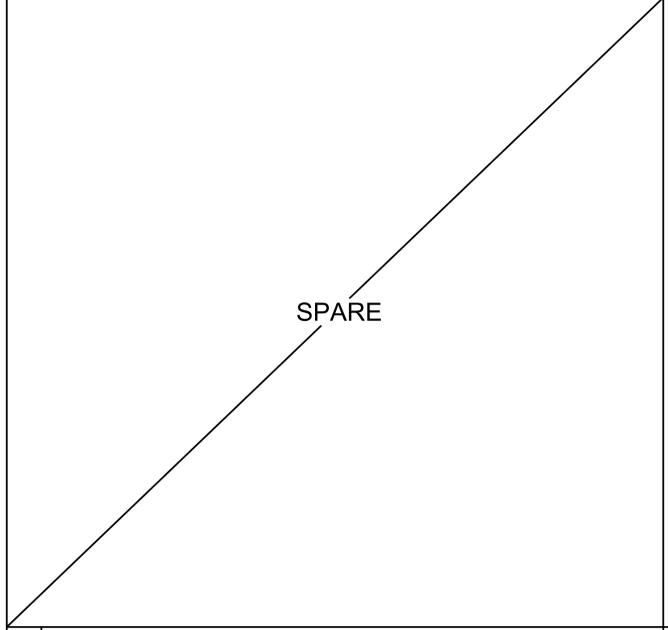


A DISHWASHER NTS

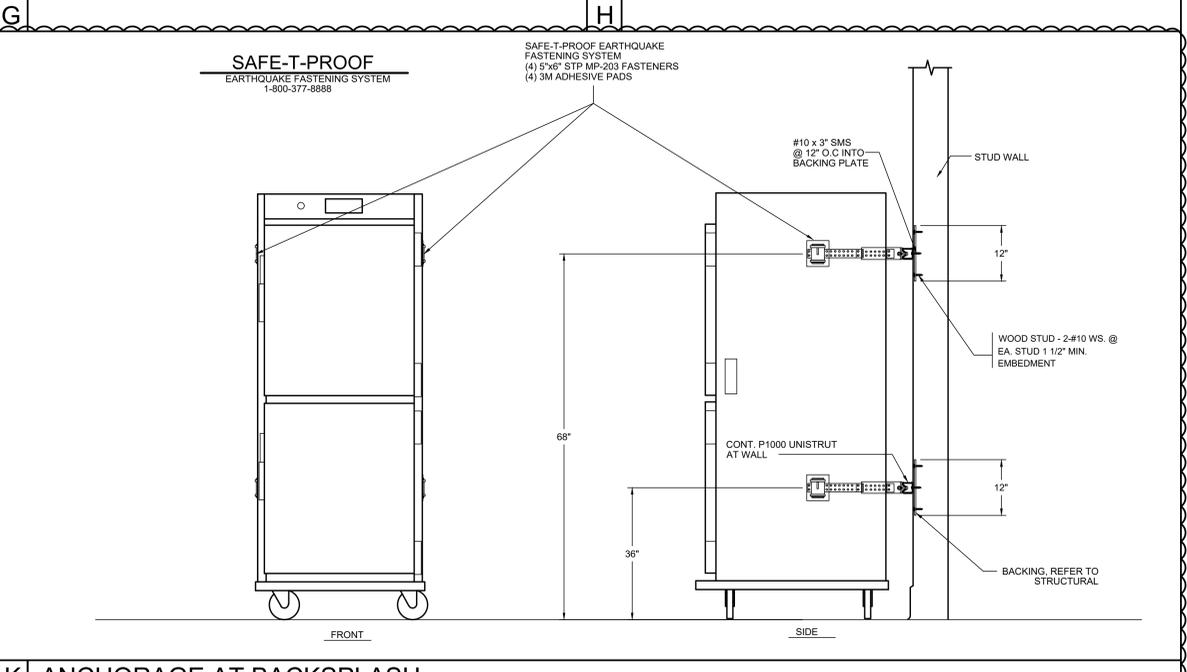
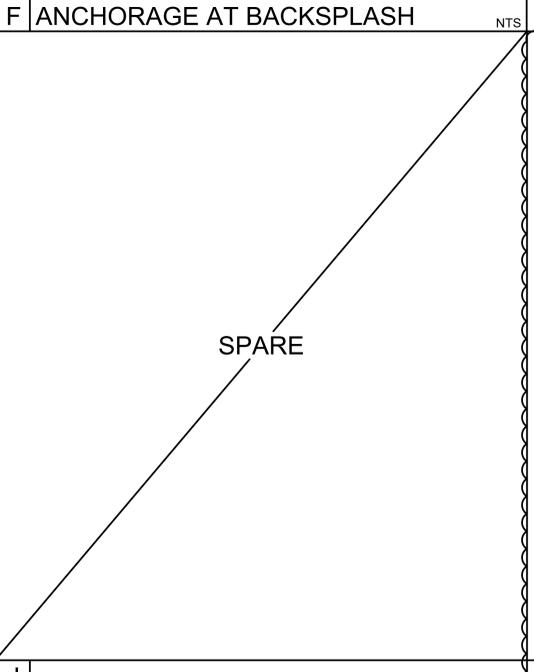
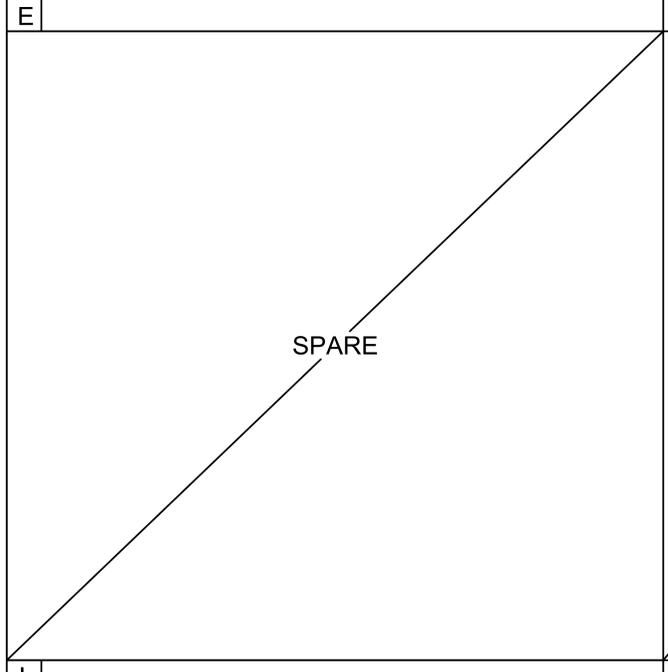
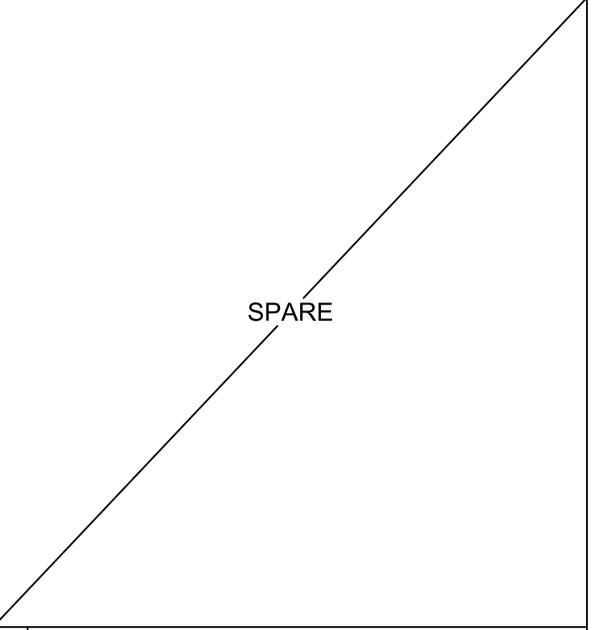
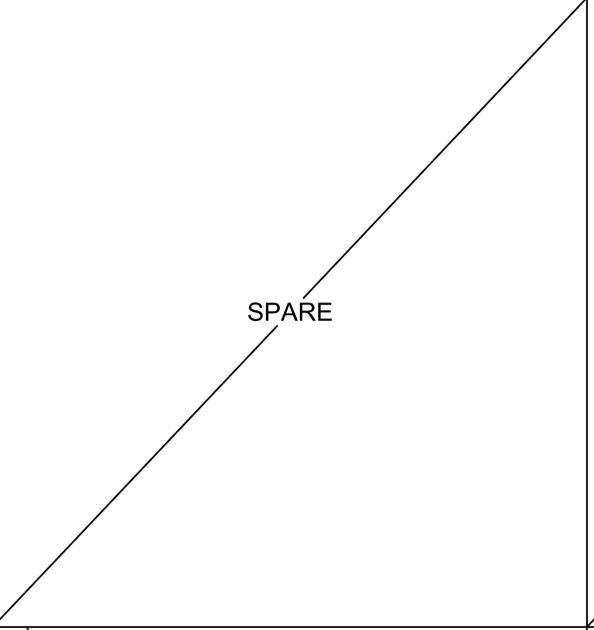
B ACCESSIBLE HAND SINK DETAILS NTS

C AIR CURTAIN MTG & MICRO SWITCH DTL NTS

D DOUBLE STACK CONVECTION OVEN NTS



F ANCHORAGE AT BACKSPLASH NTS



K ANCHORAGE AT BACKSPLASH

AGENCY APPROVAL:



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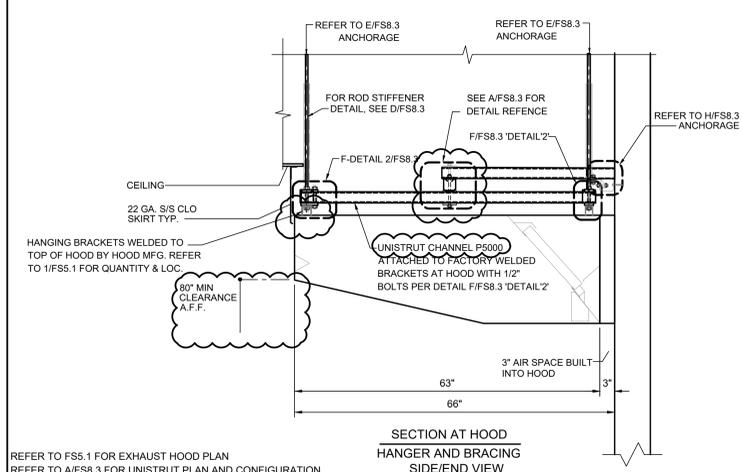
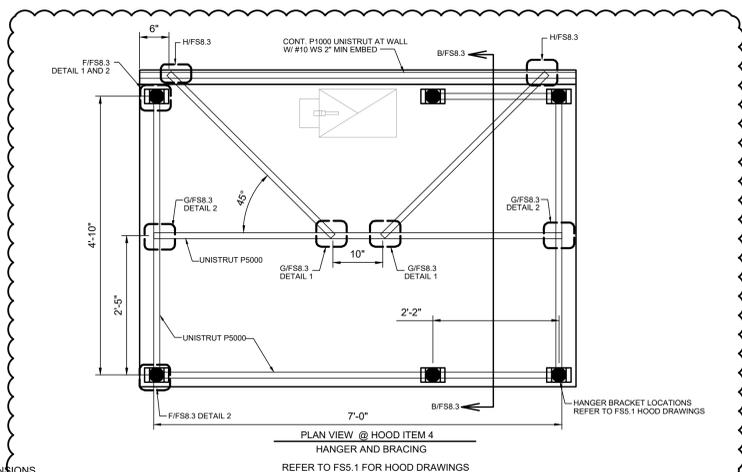
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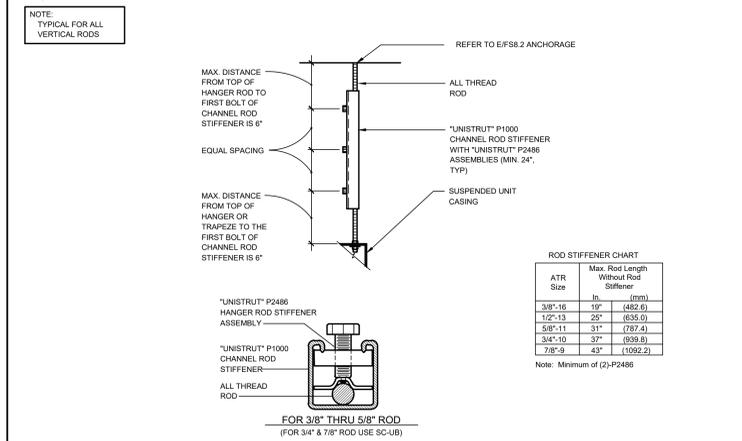
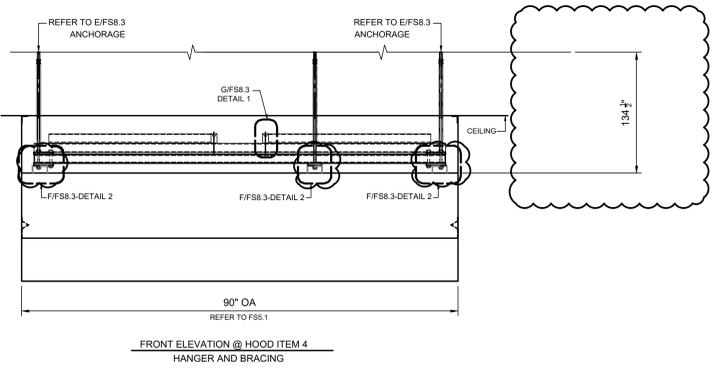
SHEET: **FS8.2**

THIS LINE DRAWING AND THE EXHAUST HOOD SHALL BE SHOWN TO THE CONTRACTOR



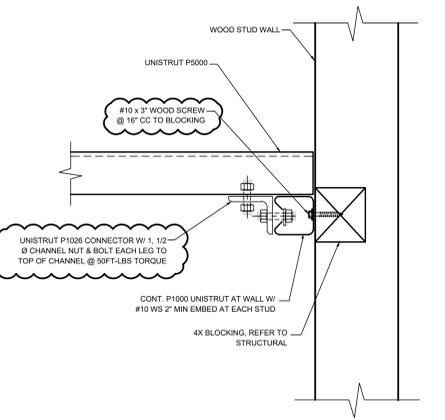
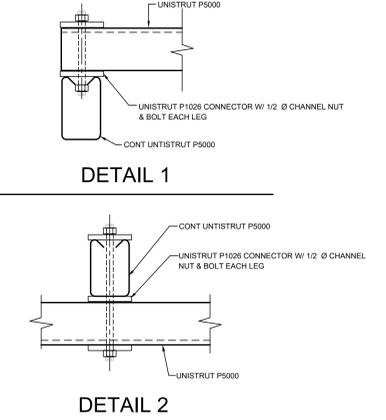
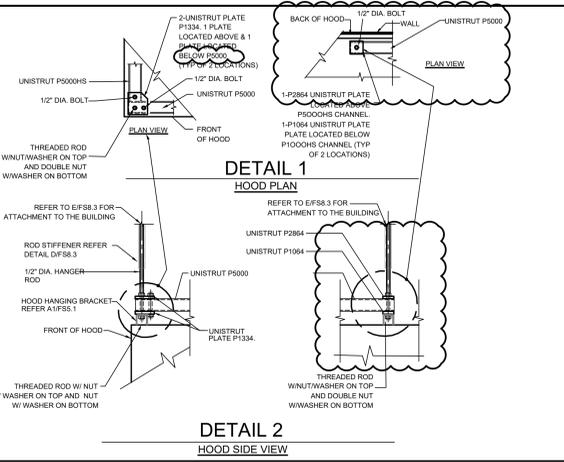
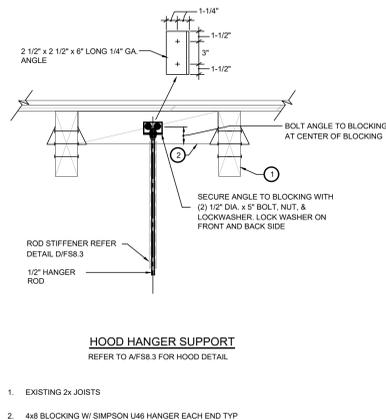
A EXHAUST HOOD ANCHORAGE DETAIL PLAN VIEW

B EXHAUST HOOD ATTACHMENT SECTION



C EXHAUST HOOD ELEVATIONS

D ROD STIFFENER DETAIL



E TYP. UPPER ATTACHMENT

F HOOD HANGING SUPPORT

G UNISTRUT CONNECTION DETAIL

H HOOD BRACING AT WALL DETAIL

SPARE

SPARE

SPARE

SPARE

AGENCY APPROVAL:



HMC Architects

3186-070-000

2101 CAPITOL AVENUE, SUITE 100,
SACRAMENTO, CA, 95816
916.388.7060 / www.hmcarchitects.com

ISSUE	DESCRIPTION	DATE
1	ADDENDUM #1	03/01/2024



FACILITY:
MATSUYAMA ELEMENTARY SCHOOL
7680 WINDBRIDGE DR.
SACRAMENTO, CA 95831

PROJECT:
MATSUYAMA ELEMENTARY SCHOOL MODERNIZATION

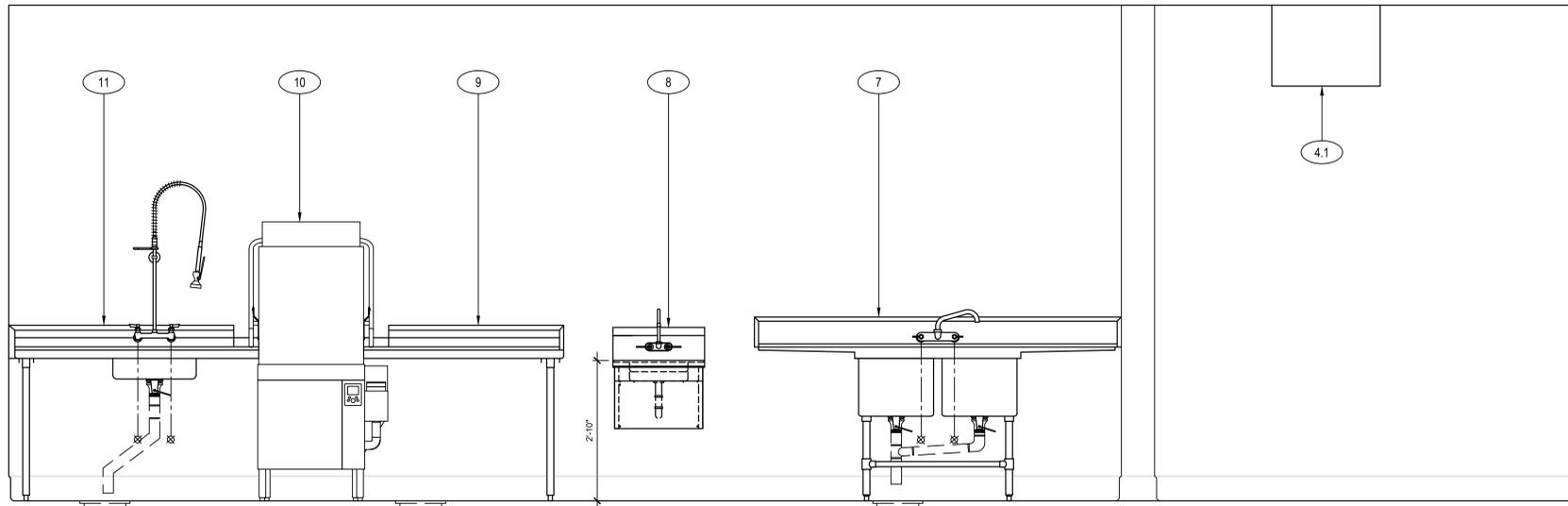
SHEET NAME: **FOODSERVICE EQUIPMENT ANCHORAGE DETAILS**

DSA SUBMITTAL

DATE: 01/04/2024 CLIENT PROJ NO: 3186-070-000

FS8.3

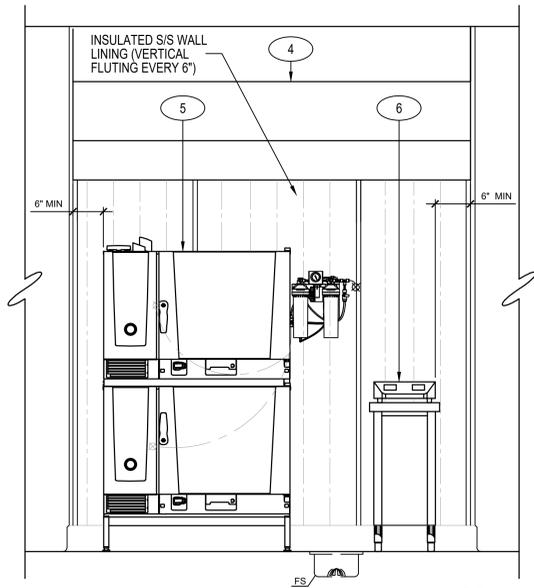
DATE: 01/04/2024
DRAWN BY: JMM
CHECKED BY: JMM



ELEVATION

SCALE : 3/4"=1'-0"

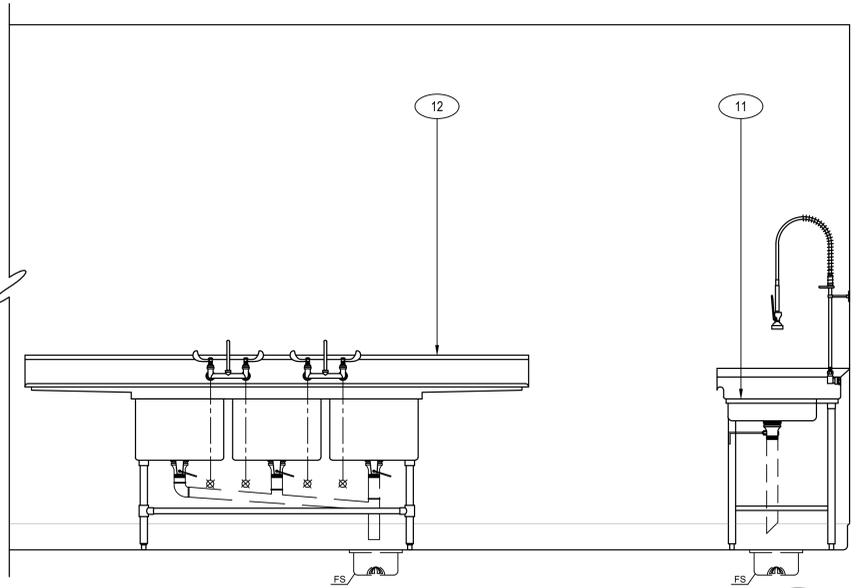
A
FS9.1



ELEVATION

SCALE : 3/4"=1'-0"

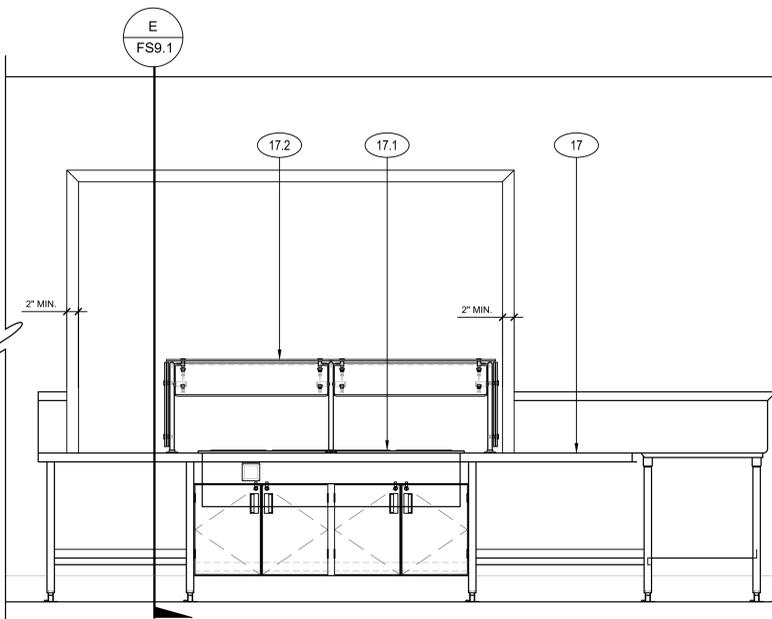
B
FS9.1



ELEVATION

SCALE : 3/4"=1'-0"

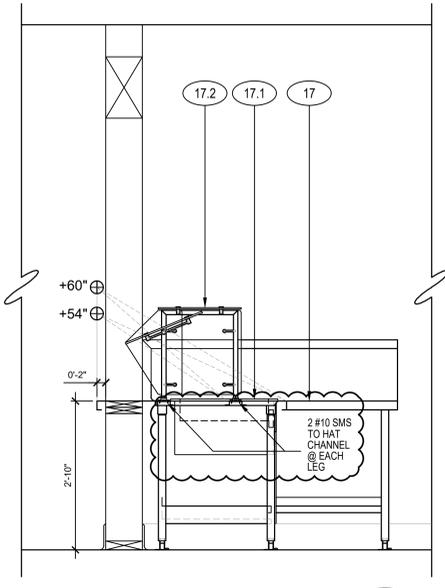
C
FS9.1



ELEVATION

SCALE : 3/4"=1'-0"

D
FS9.1



SECTION

SCALE : 3/4"=1'-0"

E
FS9.1

ITEM NO	EQUIPMENT CATEGORY	ITEM NO	EQUIPMENT CATEGORY	ITEM NO	EQUIPMENT CATEGORY
2	SHELF, WALL MOUNT	8	SINK, HAND, WALL MOUNT	17.2	SNEEZE GUARD
3	CABINET, MOBILE, WARMING & HOLDING	9	DISHTABLE, STRAIGHT		
4	EXHAUST HOOD, TYPE 1, LOW PROFILE	10	WAREWASHER, DOOR TYPE, HIGH TEMP		
4.1	FIRE SUPPRESSION SYSTEM CABINET	11	SOILED DISHTABLE, W/ SCRAP SINK		
5	OVEN-STEAMER, COMBINATION, ELECTRIC	12	SINK, SCULLERY, 3 COMPARTMENTS		
6	INDUCTION RANGE, COUNTERTOP, W/ STAND	17	SERVING COUNTER		
7	PREP SINK, 2 COMPARTMENTS	17.1	DROP IN HOT WELLS, DRY		

NOTE
FOR FOODSERVICE EQUIPMENT SCHEDULE AND PLAN SEE SHEET FS1.1

AGENCY APPROVAL:



HMC Architects

3186-070-000

2101 CAPITOL AVENUE, SUITE 100,
SACRAMENTO, CA, 95816
916.388.7267 / www.hmcarchitects.com

ISSUE

DESCRIPTION	DATE
1 ADDENDUM #1	03/01/2024



FACILITY:
MATSUYAMA ELEMENTARY SCHOOL
7680 WINDBRIDGE DR.
SACRAMENTO, CA 95631

PROJECT:
MATSUYAMA ELEMENTARY SCHOOL MODERNIZATION

SHEET NAME: **FOODSERVICE EQUIPMENT ELEVATIONS**

DSA SUBMITTAL

DATE: 01/04/2024 CLIENT PROJ NO: 3186-070-000
SHEET:

FS9.1

DATE PLOTTED: 12/21/2023 1:52:43 PM



FABRIC SHADE STRUCTURE

DSA P.C. 04-121917

AGENCY APPROVAL:



HMC Architects

3186-070-000

2101 CAPITOL AVENUE, SUITE 100, SACRAMENTO, CA 95816
916 368 7990 / www.hmcarchitects.com

ISSUE

DESCRIPTION DATE

THESE PLANS AND SPECIFICATIONS ARE THE PROPERTY OF USA SHADE AND FABRIC STRUCTURES AND SHALL NOT BE REPRODUCED WITHOUT THEIR WRITTEN PERMISSION.



CORPORATE HEADQUARTERS
2580 ESTERS BLVD, SUITE 100
DFW AIRPORT, TX, 75261
800-966-5005

KEYNOTES

NOTES

FACILITY:
MATSUYAMA ELEMENTARY SCHOOL
7680 WINDBRIDGE DR.
SACRAMENTO, CA 95831

PROJECT:
MATSUYAMA ELEMENTARY SCHOOL MODERNIZATION

SHEET NAME:
P.C. TITLE SHEET

DSA SUBMITTAL

DATE: 01/04/2024 CLIENT PROJ NO: 3186-070-000

SHEET:

P.C.T-1.0

PLEASE RECYCLE

✓	SHEET NO.	SHEET DESCRIPTION	UNIT STRUCTURE TYPE	MAX. UNIT SIZE	UNIT MODEL NUMBER
X	T-1.0	TITLE SHEET			
X	T-2.0	UNIT SELECTION			
X	T-3.0	T&I FORMS			
	1.1-1000	PRODUCT INFORMATION	HIP	20' x 30' x 15'	DSA4012030-22
	1.2-2000	REACTIONS	HIP	20' x 30' x 15'	DSA4012030-22
X	2.1-1000	PRODUCT INFORMATION	HIP	30' x 30' x 15'	DSA4013030-22
X	2.2-2000	REACTIONS	HIP	30' x 30' x 15'	DSA4013030-22
	3.1-1000	PRODUCT INFORMATION	HIP	30' x 40' x 15'	DSA4013040-22
	3.2-2000	REACTIONS	HIP	30' x 40' x 15'	DSA4013040-22
X	4.1-1000	PRODUCT INFORMATION	HIP	40' x 40' x 15'	DSA4014040-22
X	4.2-2000	REACTIONS	HIP	40' x 40' x 15'	DSA4014040-22
	5.1-1000	PRODUCT INFORMATION	HIP	20' x 30' x 12'	DSA401203012-22
	5.2-2000	REACTIONS	HIP	20' x 30' x 12'	DSA401203012-22
	6.1-1000	PRODUCT INFORMATION	HIP	30' x 30' x 12'	DSA401303012-22
	6.2-2000	REACTIONS	HIP	30' x 30' x 12'	DSA401303012-22
	7.1-1000	PRODUCT INFORMATION	HIP	30' x 40' x 12'	DSA401304012-22
	7.2-2000	REACTIONS	HIP	30' x 40' x 12'	DSA401304012-22
	8.1-1000	PRODUCT INFORMATION	HIP (20 psf SNOW LOAD)	20' x 30' x 15'	DSA401S2030-22
	8.2-2000	REACTIONS	HIP (20 psf SNOW LOAD)	20' x 30' x 15'	DSA401S2030-22
	9.1-1000	PRODUCT INFORMATION	JOINED HIPS	VARIES	DSA401J-22
	9.2-1001	DETAILS	JOINED HIPS	VARIES	DSA401J-22
	9.3-2000	REACTIONS	JOINED HIPS	VARIES	DSA401J-22
	10.1-1000	PRODUCT INFORMATION	QUAD JOINED HIPS	VARIES	DSA401Q-22
	10.2-1001	DETAILS	QUAD JOINED HIPS	VARIES	DSA401Q-22
	10.3-2000	REACTIONS	QUAD JOINED HIPS	VARIES	DSA401Q-22
	11.1-1000	PRODUCT INFORMATION	FULL CANTILEVER HIP SINGLE	20' x 30' x 15'	DSA2022030-22
	11.2-2000	REACTIONS	FULL CANTILEVER HIP SINGLE	20' x 30' x 15'	DSA2022030-22
	12.1-1000	PRODUCT INFORMATION	FULL CANTILEVER HIP JOINED	20' x 200' x 15'	DSA3022060-22
	12.2-2000	REACTIONS	FULL CANTILEVER HIP JOINED	20' x 200' x 15'	DSA3022060-22
	13.1-1000	PRODUCT INFORMATION	SINGLE POST PYRAMID	14' x 14' x 12'	DSA1031414-22
	13.2-2000	REACTIONS	SINGLE POST PYRAMID	14' x 14' x 12'	DSA1031414-22
	14.1-1000	PRODUCT INFORMATION	SINGLE POST PYRAMID	20' x 20' x 12'	DSA1032020-22
	14.2-2000	REACTIONS	SINGLE POST PYRAMID	20' x 20' x 12'	DSA1032020-22
	15.1-1000	PRODUCT INFORMATION	SINGLE POST PYRAMID CANTILEVER	14' x 14' x 12'	DSA1241414-22
	15.2-2000	REACTIONS	SINGLE POST PYRAMID CANTILEVER	14' x 14' x 12'	DSA1241414-22
	16.1-1000	PRODUCT INFORMATION	SINGLE POST PYRAMID CANTILEVER	20' x 20' x 12'	DSA1242020-22
	16.2-2000	REACTIONS	SINGLE POST PYRAMID CANTILEVER	20' x 20' x 12'	DSA1242020-22
	17.1-1000	PRODUCT INFORMATION	MARINER PEAK	30' x 30' x 15'	DSA4073030-22
	17.2-2000	REACTIONS	MARINER PEAK	30' x 30' x 15'	DSA4073030-22
	18.1-1000	PRODUCT INFORMATION	MARINER PEAK	30' x 40' x 18'	DSA4073040-22
	18.2-2000	REACTIONS	MARINER PEAK	30' x 40' x 18'	DSA4073040-22
	19.1-1000	PRODUCT INFORMATION	MARINER PEAK JOINED	30' x 133' x 15'	DSA407J3060-22
	19.2-2000	REACTIONS	MARINER PEAK JOINED	30' x 133' x 15'	DSA407J3060-22
	20.1-1000	PRODUCT INFORMATION	MARINER PEAK QUAD	60' x 60' x 15'	DSA407Q6060-22
	20.2-2000	REACTIONS	MARINER PEAK QUAD	60' x 60' x 15'	DSA407Q6060-22
	21.1-1000	PRODUCT INFORMATION	TRI TRUSS HIP SINGLE WIDE	20' x 30' x 15'	DSA2062030-22
	21.2-2000	REACTIONS	TRI TRUSS HIP SINGLE WIDE	20' x 30' x 15'	DSA2062030-22
	22.1-1000	PRODUCT INFORMATION	TRI TRUSS HIP JOINED	20' x 200' x 15'	DSA3052060-22
	22.2-2000	REACTIONS	TRI TRUSS HIP JOINED	20' x 200' x 15'	DSA3052060-22
	23.1-1000	PRODUCT INFORMATION	TENSION SAILS THREE POINT	30' x 133' x 15'	DSA30730-22
	23.2-2000	REACTIONS	TENSION SAILS THREE POINT	30' x 133' x 15'	DSA30730-22
	24.1-1000	PRODUCT INFORMATION	TENSION SAILS FOUR POINT	20' x 200' x 15'	DSA4182020-22
	24.2-2000	REACTIONS	TENSION SAILS FOUR POINT	20' x 200' x 15'	DSA4182020-22
	25.1-1000	PRODUCT INFORMATION	TENSION SAILS FOUR POINT	30' x 133' x 15'	DSA4183030-22
	25.2-2000	REACTIONS	TENSION SAILS FOUR POINT	30' x 133' x 15'	DSA4183030-22
	26.1-1000	PRODUCT INFORMATION	TRIANGLE	25' x 25' x 15'	DSA30125-22
	26.2-2000	REACTIONS	TRIANGLE	25' x 25' x 15'	DSA30125-22
	27.1-1000	PRODUCT INFORMATION	TRIANGLE	40' x 40' x 15'	DSA30140-22
	27.2-2000	REACTIONS	TRIANGLE	40' x 40' x 15'	DSA30140-22
	28.1-1000	PRODUCT INFORMATION	HEXAGON	Ø40' X 15'	DSA60340-22
	28.2-2000	REACTIONS	HEXAGON	Ø40' X 15'	DSA60340-22
	29.1-1000	PRODUCT INFORMATION	HEXAGON	Ø60' X 15'	DSA60360-22
	29.2-2000	REACTIONS	HEXAGON	Ø60' X 15'	DSA60360-22

TOTAL SHEET COUNT: 63 SHEETS

GENERAL NOTES:

- ALL WORK SHALL CONFORM TO THE 2022 EDITION OF THE TITLE 24, CALIFORNIA CODE OF REGULATIONS (CGR).
- ALL WORK SHALL BE IN COMPLIANCE WITH CFC CHAPTER 33 - FIRE SAFETY DURING CONSTRUCTION AND DEMOLITION.
- SEE INDIVIDUAL STRUCTURAL DRAWINGS FOR SPECIFIC DESIGN NOTES AND LOADING.
- PRIOR TO SUBMITTAL ARCHITECT OF RECORD SHALL IDENTIFY PC MODEL(S) SELECTED BY END USER ON SHEETS T-1.0 AND T-2.0 BY CHECKING THE APPROPRIATE BOX ASSOCIATED WITH SELECTED PC MODEL(S). EXCLUDE SHEETS FOR MODELS NOT SELECTED.

PLANS FOR SPECIFIC APPLICATION SHALL INCLUDE THE FOLLOWING:

- COMPLETE SCOPE OF WORK INCLUDING THE SHADE STRUCTURE MODEL NUMBER, P.C. NUMBER, AND SPECIFIC SIZE OF THE SHADE STRUCTURE(S).
- PROVIDE A CODE ANALYSIS, INCLUDING ACTUAL SHADE STRUCTURE AREA (SQ. FT.), OCCUPANCY TYPE (A-3), AND TYPE OF CONSTRUCTIONS (V-B), INDICATE OCCUPANT LOAD FACTOR (2022 CBC, SECTION 1004).
- ACTUAL DIMENSIONS OF SHADE STRUCTURES.
- DIMENSIONS FROM ADJACENT STRUCTURES AND PROXIMITY OF ASSUMED OR ACTUAL PROPERTY LINES.
- INDICATE LOCATIONS OF FIRE EXTINGUISHERS WITHIN 75 FEET.
- SHOW LOCATION OF AUDIBLE FIRE ALARM.
- ALL SADDLES, CLAMPS AND FITTINGS SHALL CONFORM TO THE GUIDELINES AS SPECIFIED IN APPENDICES 'A, B, & C', RESPECTIVELY, IN ASCE/SEI 19-16, "STRUCTURAL APPLICATIONS OF STEEL CABLES FOR BUILDINGS."
- ARCHITECTS OF RECORD TO DETERMINE IF SPECIFIC SITE IS LOCATED IN A MAPPED GEOLOGIC HAZARD ZONE. GEOHAZARD REPORTS REQUIREMENTS SHALL COMPLY WITH DSA IR A-4.
- ARCHITECTS OF RECORD TO DETERMINE IF SPECIFIC SITE IS LOCATED IN A MAPPED FIRE HAZARD SEVERITY ZONE OR WILDLAND INTERFACE AREA.

FOR SNOW LOAD MODELS ONLY:

- INDICATE DIMENSIONS FROM THE ROOF TO THE HIGHER STRUCTURE OR TERRAIN FEATURE. MINIMUM DIMENSION OF 20'-0" FOR SNOW LOAD MODEL (ASCE 7-16).
- ACTUAL SITE ELEVATION (FEET) TO DETERMINE IF THE SITE OCCURS AT OR BELOW THE UPPER ELEVATION LIMIT FOR THE GROUND SNOW LOAD SHOWN IN ASCE 7-16.

PLANS FOR SPECIFIC APPLICATION SHALL INCLUDE THE FOLLOWING:

LIST OF APPLICABLE CODES:

- 2022 CALIFORNIA ADMINISTRATIVE CODE (CAC), PART 1, TITLE 24 C.C.R.
- 2022 CALIFORNIA BUILDING CODE (CBC), PART 2, TITLE 24 C.C.R.
- 2022 CALIFORNIA ELECTRICAL CODE (CEC), PART 4, TITLE 24 C.C.R.
- 2022 CALIFORNIA MECHANICAL CODE (CMC), PART 4, TITLE 24 C.C.R.
- 2022 CALIFORNIA PLUMBING CODE (CPC), PART 5, TITLE 24 C.C.R.
- 2022 CALIFORNIA ENERGY CODE (CEC), PART 6, TITLE 24 C.C.R.
- 2022 CALIFORNIA FIRE CODE, PART 9, TITLE 24 C.C.R.
- 2022 CALIFORNIA EXISTING BUILDING CODE (CEBC), PART 10, TITLE 24 C.C.R.
- 2022 CALIFORNIA GREEN BUILDING STANDARDS CODE (CALGREEN), PART 11, TITLE 24 C.C.R.
- 2022 CALIFORNIA REFERENCED STANDARDS CODE, PART 12, TITLE 24 C.C.R.
- TITLE 19 C.C.R., PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS

APPLICABLE STANDARDS:

FOR A LIST OF APPLICABLE STANDARDS, INCLUDING CALIFORNIA AMENDMENTS TO THE NFPA STANDARDS, REFER TO CBC CHAPTER 35 AND CFC CHAPTER 80.

APPLICABLE CODES

SITE SPECIFIC PARAMETERS:

INSTRUCTIONS: DESIGN PROFESSIONAL SHALL CHECK THE APPROPRIATE SELECTION BOXES BELOW AND ENTER THE DESIGN PARAMETERS APPLICABLE TO THE SPECIFIC PROJECT SITE

DESIGN:

DESIGN BASED ON SITE CLASS (S_u)
NO GEOTECHNICAL INVESTIGATION REQUIRED
S_u = _____ Fa = 1.2

DESIGN BASED ON SITE CLASS DETERMINED PER CHAPTER 20 OF ASCE 7-16
GEOTECHNICAL INVESTIGATION PROVIDED
SITE CLASS: C D
S_u = _____ Fa = _____ PER ASCE 7-16 SUPPL. 3, TABLE 11.4.1

DESIGN BASED ON SITE CLASS SPECIFIC GROUND MOTION HAZARD ANALYSIS
PER CHAPTER 21 OF ASCE 7-16
SHORT-PERIOD DESIGN SPECTRAL RESPONSE PARAMETER, S_{ps} SHALL BE AS SPECIFIED IN GEOTECHNICAL INVESTIGATION
CGS APPROVAL REQUIRED
NOT ELIGIBLE FOR OTC REVIEW
SITE CLASS: C D
S_{ps} = 2.25 Fa S_u = _____ 2.0
CG = 1.0 USED IN DESIGN
SEISMIC DESIGN CATEGORY: D E

CODE ANALYSIS

OCCUPANCY GROUP	OCCUPANT LOAD FACTOR	TOTAL OCCUPANT LOAD	SHADE STRUCTURE AREA (R ²)

MANUFACTURER:

USA SHADE & FABRIC STRUCTURES
2580 ESTERS BOULEVARD, SUITE 100
DFW AIRPORT, TEXAS 75261
PH: 800-966-5005
W: www.usa-shade.com

ARCHITECT:

HIGGINSON ARCHITECTS, INC.
DAVID HIGGINSON, AIA, PRINCIPAL ARCHITECT
34247 YUCAIPA BOULEVARD, SUITE D
YUCAIPA, CALIFORNIA 92399
PH: 909-499-0058
E: dhigginson@higginsonarchitects.com
W: www.higginsonarchitects.com

STRUCTURAL ENGINEER:

MARK LOWE, S.E.
c/o USA SHADE AND FABRIC STRUCTURES




P.C. NOTES

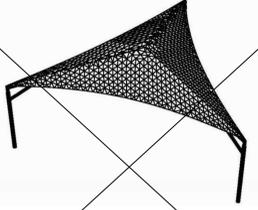
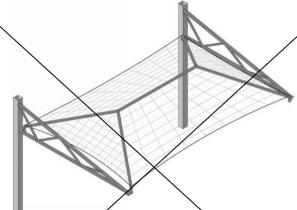
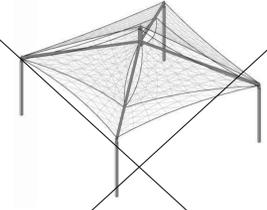
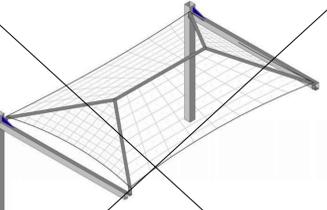
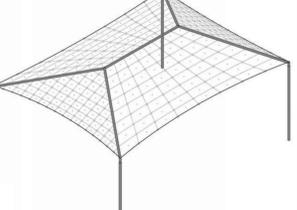
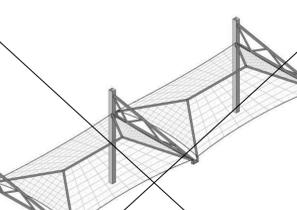
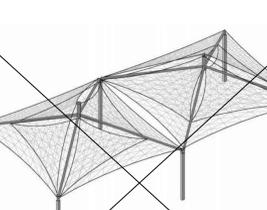
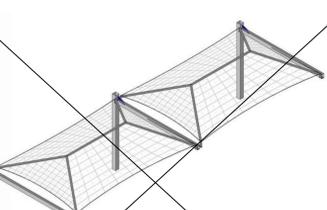
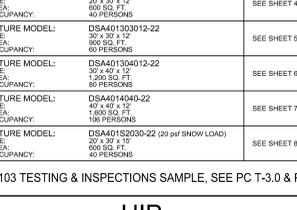
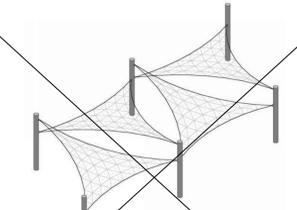
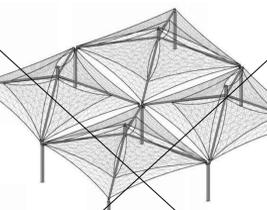
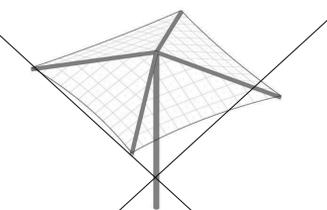
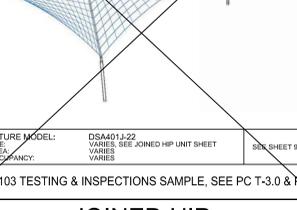
SITE SPECIFIC PARAMETERS

ARCHITECT / ENGINEER

SHEET INDEX

Autodesk Docs:0318670000 - SCUSD Matsuyama ES Modernization0318670000-A-MATSUYAMA-MOD-14 12/21/2023 1:52:43 PM

THE LINE SHOWN ABOVE IS THE EXACT DIMENSIONAL PAGE SIZE

				
STRUCTURE MODEL: DSA0125-22 MAX. SIZE: 27' x 32' x 15' MAX. AREA: 27' SQ. FT. MAX. OCCUPANCY: 18 PERSONS SEE SHEET 26.1-1000	STRUCTURE MODEL: DSA02062030-22 MAX. SIZE: 27' x 32' x 15' MAX. AREA: 60' SQ. FT. MAX. OCCUPANCY: 40 PERSONS SEE SHEET 21.1-1000	STRUCTURE MODEL: DSA073030-22 MAX. SIZE: 30' x 32' x 15' MAX. AREA: 60' SQ. FT. MAX. OCCUPANCY: 40 PERSONS SEE SHEET 17.1-1000	STRUCTURE MODEL: DSA0202030-22 MAX. SIZE: 27' x 32' x 15' MAX. AREA: 60' SQ. FT. MAX. OCCUPANCY: 40 PERSONS SEE SHEET 11.1-1000	STRUCTURE MODEL: DSA012030-22 MAX. SIZE: 27' x 32' x 15' MAX. AREA: 60' SQ. FT. MAX. OCCUPANCY: 40 PERSONS SEE SHEET 1.1-1000
FOR D8A 103 TESTING & INSPECTIONS SAMPLE, SEE PC T-3.0 & RC T-4.0	FOR D8A 103 TESTING & INSPECTIONS SAMPLE, SEE PC T-3.0 & RC T-4.0	FOR D8A 103 TESTING & INSPECTIONS SAMPLE, SEE PC T-3.0 & RC T-4.0	FOR D8A 103 TESTING & INSPECTIONS SAMPLE, SEE PC T-3.0 & RC T-4.0	FOR D8A 103 TESTING & INSPECTIONS SAMPLE, SEE PC T-3.0 & RC T-4.0
TRIANGLE	TRI-TRUSS HIP SINGLE WIDE	MARINER PEAK	FULL CANTILEVER HIP SINGLE	HIP
				
STRUCTURE MODEL: DSA0030-22 MAX. SIZE: 30' x 32' x 15' MAX. AREA: 1,560' SQ. FT. MAX. OCCUPANCY: 69 PERSONS SEE SHEET 28.1-1000	STRUCTURE MODEL: DSA03060-22 MAX. SIZE: 30' x 32' x 15' MAX. AREA: 2,136' SQ. FT. MAX. OCCUPANCY: 116 PERSONS SEE SHEET 29.1-1000	STRUCTURE MODEL: DSA073060-22 MAX. SIZE: 30' x 32' x 15' MAX. AREA: 3,096' SQ. FT. MAX. OCCUPANCY: 206 PERSONS SEE SHEET 18.1-1000	STRUCTURE MODEL: DSA022060-22 MAX. SIZE: 30' x 32' x 15' MAX. AREA: 4,056' SQ. FT. MAX. OCCUPANCY: 266 PERSONS SEE SHEET 12.1-1000	STRUCTURE MODEL: DSA0130-22 MAX. SIZE: VARIES MAX. AREA: VARIES MAX. OCCUPANCY: VARIES SEE SHEET 6.1-1000
FOR D8A 103 TESTING & INSPECTIONS SAMPLE, SEE PC T-3.0 & RC T-4.0	FOR D8A 103 TESTING & INSPECTIONS SAMPLE, SEE PC T-3.0 & RC T-4.0	FOR D8A 103 TESTING & INSPECTIONS SAMPLE, SEE PC T-3.0 & RC T-4.0	FOR D8A 103 TESTING & INSPECTIONS SAMPLE, SEE PC T-3.0 & RC T-4.0	FOR D8A 103 TESTING & INSPECTIONS SAMPLE, SEE PC T-3.0 & RC T-4.0
HEXAGON	TRI-TRUSS HIP JOINED	MARINER PEAK JOINED	FULL CANTILEVER HIP JOINED	JOINED HIP
NOT USED				
	STRUCTURE MODEL: DSA03030-22 MAX. SIZE: 30' x 32' x 15' MAX. AREA: 3,960' SQ. FT. MAX. OCCUPANCY: 266 PERSONS SEE SHEET 23.1-1000	STRUCTURE MODEL: DSA07060-22 MAX. SIZE: 60' x 60' x 15' MAX. AREA: 3,600' SQ. FT. MAX. OCCUPANCY: 240 PERSONS SEE SHEET 20.1-1000	STRUCTURE MODEL: DSA1031414-22 MAX. SIZE: 14' x 14' x 12' MAX. AREA: 196' SQ. FT. MAX. OCCUPANCY: 13 PERSONS SEE SHEET 13.1-1000	STRUCTURE MODEL: DSA0130-22 MAX. SIZE: VARIES MAX. AREA: VARIES MAX. OCCUPANCY: VARIES SEE SHEET 14.1-1000
	FOR D8A 103 TESTING & INSPECTIONS SAMPLE, SEE PC T-3.0 & RC T-4.0	FOR D8A 103 TESTING & INSPECTIONS SAMPLE, SEE PC T-3.0 & RC T-4.0	FOR D8A 103 TESTING & INSPECTIONS SAMPLE, SEE PC T-3.0 & RC T-4.0	FOR D8A 103 TESTING & INSPECTIONS SAMPLE, SEE PC T-3.0 & RC T-4.0
NOT USED	TENSIONS SAILS THREE-POINT	MARINER PEAK QUAD	SINGLE POST PYRAMID	QUAD HIP
	STRUCTURE MODEL: DSA4182020-22 MAX. SIZE: 27' x 40' x 15' MAX. AREA: 4,000' SQ. FT. MAX. OCCUPANCY: 266 PERSONS SEE SHEET 24.1-1000		STRUCTURE MODEL: DSA1241414-22 MAX. SIZE: 14' x 14' x 12' MAX. AREA: 196' SQ. FT. MAX. OCCUPANCY: 13 PERSONS SEE SHEET 15.1-1000	STRUCTURE MODEL: DSA0130-22 MAX. SIZE: VARIES MAX. AREA: VARIES MAX. OCCUPANCY: VARIES SEE SHEET 10.1-1000
	STRUCTURE MODEL: DSA4183030-22 MAX. SIZE: 30' x 32' x 15' MAX. AREA: 3,960' SQ. FT. MAX. OCCUPANCY: 266 PERSONS SEE SHEET 25.1-1000		STRUCTURE MODEL: DSA1242020-22 MAX. SIZE: 20' x 20' x 12' MAX. AREA: 400' SQ. FT. MAX. OCCUPANCY: 26 PERSONS SEE SHEET 16.1-1000	FOR D8A 103 TESTING & INSPECTIONS SAMPLE, SEE PC T-3.0 & RC T-4.0
	FOR D8A 103 TESTING & INSPECTIONS SAMPLE, SEE PC T-3.0 & RC T-4.0		FOR D8A 103 TESTING & INSPECTIONS SAMPLE, SEE PC T-3.0 & RC T-4.0	
NOT USED	TENSIONS SAILS FOUR-POINT	NOT USED	SINGLE POST PYRAMID CANTILEVER	

AGENCY APPROVAL:



HMC Architects

3186-070-000

2101 CAPITOL AVENUE, SUITE 100,
SACRAMENTO, CA 95816
916 368 7990 / www.hmcarchitects.com

ISSUE

DESCRIPTION	DATE
THESE PLANS AND SPECIFICATIONS ARE THE PROPERTY OF USA SHADE AND FABRIC STRUCTURES AND SHALL NOT BE REPRODUCED WITHOUT THEIR WRITTEN PERMISSION.	

CORPORATE HEADQUARTERS
2580 ESTERS BLVD., SUITE 100
DFW AIRPORT, TX, 75261
800-966-5005

KEYNOTES

NOTES



FACILITY:
MATSUYAMA ELEMENTARY SCHOOL
7680 WINDBRIDGE DR.
SACRAMENTO, CA 95831

PROJECT:
MATSUYAMA ELEMENTARY SCHOOL MODERNIZATION

SHEET NAME:
P.C. UNIT SELECTION

DSA SUBMITTAL

DATE: 01/04/2024 CLIENT PROJ NO: 3186-070-000

SHEET:

P.C.T-2.0

PLEASE RECYCLE

Autodesk Docs:0318670000 - SCUSD Matsuyama ES Modernization0318670000-A-MATSUYAMA-MOD-04 12/21/2023 1:52:43 PM

Autocheck Docs:03/08/2024 - SCUSD Matsuyama ES Modernization03/08/2024-MATSUYAMA-MOD-04 12/21/2023 1:52:43 PM

AGENCY APPROVAL:



HMC Architects
3186-070-000
2101 CAPITOL AVENUE, SUITE 100, SACRAMENTO, CA 95816
916 368 7990 / www.hmcarchitects.com

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SACRAMENTO, CA 95831

PROJECT:
MATSUYAMA ELEMENTARY SCHOOL MODERNIZATION

SHEET NAME:
P.C. T&I FORMS

DSA SUBMITTAL

DATE: 01/04/2024 CLIENT PROJ NO: 3186-070-000

SHEET:

P.C.T-3.0

PLEASE RECYCLE

DSA 103-22: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS, 2022 CBC
Table 1705A.3, Table 1705A.7, Table 1705A.8
Application Number: 04 121917 School District: USA SHADE AND FABRIC STRUCTURES
Date Created: 2023-02-15 15:23:09
DSA File Number: P.C. FABRIC SHADE STRUCTURES
Increment Number: 2023-02-15 15:23:09

2022 CBC

IMPORTANT: This form is only a summary list of structural tests and some of the special inspections required for the project. Generally, the structural tests and special inspections noted on this form are those that will be performed by the Geotechnical Engineer of Record, Laboratory of Record, or Special Inspector. The actual complete test and inspection program must be performed as detailed on the DSA approved documents. The Appendix at the bottom of this form identifies work NOT subject to DSA requirements for special inspection or structural testing. The project inspector is responsible for providing inspection of all factors of construction, including but not limited to special inspections not listed on this form such as structural wood framing, high steel wood diagrams, cold formed steel framing, anchorage of non-structural components, etc., per Title 24, Part 2, Chapter 17A (2022 CBC).

****NOTE:** Undefined section and table references found in this document are from the CBC, or California Building Code.

KEY TO COLUMNS

1. TYPE	2. PERFORMED BY
Continuous - Indicates that a continuous special inspection is required.	GE (Geotechnical Engineer) - Indicates that this special inspection shall be performed by a registered geotechnical engineer or his or her authorized representative.
Periodic - Indicates that a periodic special inspection is required.	OR (Laboratory of Record) - Indicates that the test or special inspection shall be performed in a testing laboratory accepted in the DSA Laboratory Evaluation and Recognition (LEAR) Program. See Cal. Section 4355.
Test - Indicates that a test is required.	PI (Project Inspector) - Indicates that the special inspection may be performed by a project inspector when specifically approved by DSA.
	SI (Special Inspector) - Indicates that the special inspection shall be performed by an appropriately qualified special inspector.

DSA 103-22: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS (SOILS), 2022 CBC
Table 1705A.6, Table 1705A.7, Table 1705A.8
Application Number: 04 121917 School District: USA SHADE AND FABRIC STRUCTURES
Date Created: 2023-02-15 15:23:09
DSA File Number: P.C. FABRIC SHADE STRUCTURES
Increment Number: 2023-02-15 15:23:09

Geotechnical Reports - Project does NOT have and does NOT require a geotechnical report

Test or Special Inspection	Type	Performed By	Code References and Notes
1. GENERAL			
a. Verify that soil test results and maintain complete and accurate records for each pile.	Continuous	GE*	*By geotechnical engineer or his or her qualified representative.
d. Verify locations of piles and their planimetry, confirm type and soil hammer record number for blow per foot of penetration, determine required penetrations to achieve design capacity, record rig and bulb elevations and record any pile damage.	Continuous	GE*	*By geotechnical engineer or his or her qualified representative.
e. Steel piles.			Provide tests and inspections per STEEL section below.
f. Concrete piles and concrete filled piles.			Provide tests and inspections per CONCRETE section below.
g. For specialty piles, perform additional inspections as determined by the registered design professional in responsible charge.			*As defined on drawings or specifications.

S2. SOIL COMPACTION AND FILL:

Test or Special Inspection	Type	Performed By	Code References and Notes
a. Verify use of proper materials, densities and impact lift techniques, placement and compaction during placement of fill.	Continuous	LOR	*Under the supervision of a geotechnical engineer or LOR's engineering manager. Refer to specific items identified in the Appendix listing exemptions for limitations.
b. Compaction testing.	Test	LOR*	*Under the supervision of a geotechnical engineer or LOR's engineering manager. Refer to specific items identified in the Appendix listing exemptions for limitations.

S3. DRIVEN DEEP FOUNDATIONS (PILES):

Test or Special Inspection	Type	Performed By	Code References and Notes
a. Verify pile materials, sizes and lengths comply with the requirements.	Continuous	GE*	*By geotechnical engineer or his or her qualified representative.
b. Determine capacities of test piles and conduct additional load tests as required.	Test	LOR*	*Under the supervision of the geotechnical engineer.

DSA 103-22: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS (SOILS), 2022 CBC
Table 1705A.6, Table 1705A.7, Table 1705A.8
Application Number: 04 121917 School District: USA SHADE AND FABRIC STRUCTURES
Date Created: 2023-02-15 15:23:09
DSA File Number: P.C. FABRIC SHADE STRUCTURES
Increment Number: 2023-02-15 15:23:09

Test or Special Inspection	Type	Performed By	Code References and Notes
c. Impact driving operations and maintain complete and accurate records for each pile.	Continuous	GE*	*By geotechnical engineer or his or her qualified representative.
d. Verify locations of piles and their planimetry, confirm type and soil hammer record number for blow per foot of penetration, determine required penetrations to achieve design capacity, record rig and bulb elevations and record any pile damage.	Continuous	GE*	*By geotechnical engineer or his or her qualified representative.
e. Steel piles.			Provide tests and inspections per STEEL section below.
f. Concrete piles and concrete filled piles.			Provide tests and inspections per CONCRETE section below.
g. For specialty piles, perform additional inspections as determined by the registered design professional in responsible charge.			*As defined on drawings or specifications.

S4. CAST-IN-PLACE DEEP FOUNDATIONS (PIERS):

Test or Special Inspection	Type	Performed By	Code References and Notes
a. Impact driving operations and maintain complete and accurate records for each pier.	Continuous	PI	Continuous inspection to be provided by project inspector. Refer to specific items identified in the Appendix listing exemptions for limitations.
b. Verify pier locations, diameters, elevations and lengths. Record concrete or grout volumes.	Continuous	PI	Continuous inspection to be provided by project inspector. Refer to specific items identified in the Appendix listing exemptions for limitations.
c. Concrete piers.			Provide tests and inspections per CONCRETE section below.

DSA 103-22: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS (SOILS), 2022 CBC
Table 1705A.6, Table 1705A.7, Table 1705A.8
Application Number: 04 121917 School District: USA SHADE AND FABRIC STRUCTURES
Date Created: 2023-02-15 15:23:09
DSA File Number: P.C. FABRIC SHADE STRUCTURES
Increment Number: 2023-02-15 15:23:09

Test or Special Inspection	Type	Performed By	Code References and Notes
c. Impact driving operations and maintain complete and accurate records for each pier.	Continuous	PI	Continuous inspection to be provided by project inspector. Refer to specific items identified in the Appendix listing exemptions for limitations.
b. Verify pier locations, diameters, elevations and lengths. Record concrete or grout volumes.	Continuous	PI	Continuous inspection to be provided by project inspector. Refer to specific items identified in the Appendix listing exemptions for limitations.
c. Concrete piers.			Provide tests and inspections per CONCRETE section below.

S6. OTHER SOILS:

Test or Special Inspection	Type	Performed By	Code References and Notes
a. Soil Improvements	Test	GE*	Submit a comprehensive report documenting final soil improvements conducted. Construction observation and the results of the confirmation testing and analysis to GCS (California Geological Society) for final acceptance. *By geotechnical engineer or his or her qualified representative.
b. Inspection of Soil Improvements	Continuous	GE*	*By geotechnical engineer or his or her qualified representative.
c.			

DIVISION OF THE STATE ARCHITECT
DSS USA 103-22 (Revised 12/01/2022)

DEPARTMENT OF GENERAL SERVICES
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STATE OF CALIFORNIA

DSA 103-22: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS (CONCRETE), 2022 CBC
Table 1705A.3, ACI 318-19 Sections 2.6, 2.7 & 2.8, 2.13
Application Number: 04 121917 School District: USA SHADE AND FABRIC STRUCTURES
Date Created: 2023-02-15 15:23:09
DSA File Number: P.C. FABRIC SHADE STRUCTURES
Increment Number: 2023-02-15 15:23:09

C1. CAST-IN-PLACE CONCRETE

Test or Special Inspection	Type	Performed By	Code References and Notes
a. Verify use of required design mix.	Periodic	SI	Table 1705A.3 Item 1, 1705A.1
b. Identify, sample, and test reinforcing steel.	Test	LOR	1705A.2, ACI 318-19 Section 20.3.1, 20.3.2, 20.3.3, 20.3.4, 20.3.5, 20.3.6, 20.3.7, 20.3.8, 20.3.9, 20.3.10, 20.3.11, 20.3.12, 20.3.13, 20.3.14, 20.3.15, 20.3.16, 20.3.17, 20.3.18, 20.3.19, 20.3.20, 20.3.21, 20.3.22, 20.3.23, 20.3.24, 20.3.25, 20.3.26, 20.3.27, 20.3.28, 20.3.29, 20.3.30, 20.3.31, 20.3.32, 20.3.33, 20.3.34, 20.3.35, 20.3.36, 20.3.37, 20.3.38, 20.3.39, 20.3.40, 20.3.41, 20.3.42, 20.3.43, 20.3.44, 20.3.45, 20.3.46, 20.3.47, 20.3.48, 20.3.49, 20.3.50, 20.3.51, 20.3.52, 20.3.53, 20.3.54, 20.3.55, 20.3.56, 20.3.57, 20.3.58, 20.3.59, 20.3.60, 20.3.61, 20.3.62, 20.3.63, 20.3.64, 20.3.65, 20.3.66, 20.3.67, 20.3.68, 20.3.69, 20.3.70, 20.3.71, 20.3.72, 20.3.73, 20.3.74, 20.3.75, 20.3.76, 20.3.77, 20.3.78, 20.3.79, 20.3.80, 20.3.81, 20.3.82, 20.3.83, 20.3.84, 20.3.85, 20.3.86, 20.3.87, 20.3.88, 20.3.89, 20.3.90, 20.3.91, 20.3.92, 20.3.93, 20.3.94, 20.3.95, 20.3.96, 20.3.97, 20.3.98, 20.3.99, 20.3.100, 20.3.101, 20.3.102, 20.3.103, 20.3.104, 20.3.105, 20.3.106, 20.3.107, 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20.3.208, 20.3.209, 20.3.210, 20.3.211, 20.3.212, 20.3.213, 20.3.214, 20.3.215, 20.3.216, 20.3.217, 20.3.218, 20.3.219, 20.3.220, 20.3.221, 20.3.222, 20.3.223, 20.3.224, 20.3.225, 20.3.226, 20.3.227, 20.3.228, 20.3.229, 20.3.230, 20.3.231, 20.3.232, 20.3.233, 20.3.234, 20.3.235, 20.3.236, 20.3.237, 20.3.238, 20.3.239, 20.3.240, 20.3.241, 20.3.242, 20.3.243, 20.3.244, 20.3.245, 20.3.246, 20.3.247, 20.3.248, 20.3.249, 20.3.250, 20.3.251, 20.3.252, 20.3.253, 20.3.254, 20.3.255, 20.3.256, 20.3.257, 20.3.258, 20.3.259, 20.3.260, 20.3.261, 20.3.262, 20.3.263, 20.3.264, 20.3.265, 20.3.266, 20.3.267, 20.3.268, 20.3.269, 20.3.270, 20.3.271, 20.3.272, 20.3.273, 20.3.274, 20.3.275, 20.3.276, 20.3.277, 20.3.278, 20.3.279, 20.3.280, 20.3.281, 20.3.282, 20.3.283, 20.3.284, 20.3.285, 20.3.286, 20.3.287, 20.3.288, 20.3.289, 20.3.290, 20.3.291, 20.3.292, 20.3.293, 20.3.294, 20.3.295, 20.3.296, 20.3.297, 20.3.298, 20.3.299, 20.3.300, 20.3.301, 20.3.302, 20.3.303, 20.3.304, 20.3.305, 20.3.306, 20.3.307, 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AGENCY APPROVAL:



HMC Architects

3186-070-000

2101 CAPITOL AVENUE, SUITE 100,
SACRAMENTO, CA 95816
916 368 7990 / www.hmcarchitects.com

ISSUE	DESCRIPTION	DATE
1	THESE PLANS AND SPECIFICATIONS ARE THE PROPERTY OF USA SHADE AND FABRIC STRUCTURES AND SHALL NOT BE REPRODUCED WITHOUT THEIR WRITTEN PERMISSION.	



KEYNOTES

NOTES

STRUCTURE TYPE: HIP DSA
SIZE: MAXIMUM 30' x 30' x 15'e MAX.

FACILITY: MATSUYAMA ELEMENTARY SCHOOL
7680 WINDBRIDGE DR.
SACRAMENTO, CA 95831

PROJECT: MATSUYAMA ELEMENTARY SCHOOL MODERNIZATION

SHEET NAME: P.C. DSA4013030-22

DSA SUBMITTAL

DATE: 01/04/2024 CLIENT PROJ NO: 3186-070-000

SHEET: P.C.2.1-1000

GENERAL NOTES

- SPECIAL INSPECTION REQUIREMENTS SHALL FOLLOW THE ATTACHED SAMPLE TEST AND INSPECTION LIST (T & I LIST) APPROVED BY DSA. THE SHOP WELDING INSPECTION SHALL INCLUDE WELDING OF ALL STEEL MEMBERS AND IDENTIFICATION OF STEEL THROUGH MILL CERTIFICATE OR MATERIAL TESTING. UNIDENTIFIED STEEL SHALL BE TESTED TO THE REQUIREMENTS OF CBC 2022 CHAPTER 17A. THE FIELD SPECIAL INSPECTION SHALL INCLUDE COMPRESSION CYLINDER TESTS FOR THE CONCRETE FOUNDATION.
 - STRUCTURE SHALL BE IN THE LOCATION SHOWN ON THE SITE SPECIFIC DSA APPLICATION DRAWING.
 - FOUNDATION DESIGN BASED ON CBC 2022, TABLE 1806A.2, SOIL CLASS 5 (ALLOWABLE FOUNDATION PRESSURE 1500 PSF)
 - DESIGN PER FOLLOWING CODES: CBC 2022 (CHAPTER 35), ASCE 7-16, AISC 360-16, AISC 341-16, ACI 318-19, ASCE 55-16 & ASCE 19-10
- STRUCTURAL STEEL**
- FABRICATION OF THE STEEL STRUCTURES SHALL BE PERFORMED BY SHADE STRUCTURES OR AN AUTHORIZED LICENSEE. MATERIAL TESTING (OR MILL CERTIFICATES) AND INSPECTION OF WELDING SHALL BE CONDUCTED PER CBC 2022 SECTIONS 1704A, 1705A, 1705A.2, AND TABLE 1705A.2.1.
 - ONLY CALIFORNIA LICENSED CONTRACTORS AUTHORIZED BY SHADE STRUCTURES SHALL INSTALL THE SHADE STRUCTURES.
 - ALL WORK SHALL CONFORM TO CBC 2022 EDITION, TITLE 24, CALIFORNIA CODE OF REGULATIONS (CCR)
 - ALL GALVANIZED STEEL TUBE PRODUCTS MANUFACTURED BY ALLIED TUBE & CONDUIT FOR THIS STRUCTURE SHALL BE AND CONFORM TO ASTM A500-16 GRADE C, IN ITS ENTIRETY. TYPICAL MECHANICAL PROPERTIES ARE:
ROUND TUBE GRADE C 46,000 PSI YIELD STRESS MINIMUM / 62,000 PSI TENSILE STRESS MINIMUM
 - ALL STRUCTURAL SHAPES SHALL BE COLD FORMED HSS ASTM A500 GRADE C, UNLESS OTHERWISE NOTED. TYPICAL MECHANICAL PROPERTIES ACHIEVED FOR HSS PRODUCTS:
SQUARE AND RECTANGULAR 50,000 PSI YIELD STRESS / 62,000 PSI TENSILE STRESS
ROUND PIPE 50,000 PSI YIELD STRESS / 62,000 PSI TENSILE STRESS
 - ALL PLATES SHALL COMPLY WITH ASTM A572 GRADE 50.
 - CERTIFIED STEEL SHALL BE DETAILED, FABRICATED AND ERECTED IN ACCORDANCE WITH A.I.C.S. SPECIFICATIONS.
 - ALL WELDING TO CONFORM WITH AMERICAN WELDING SOCIETY STANDARDS AND SHALL BE INSPECTED BY AN AWS/CWI INSPECTOR. AWS D1.1 FOR HOT ROLLED. AWS D1.3 FOR SHEET/COLD FORMED. AWS D1.8 SEISMIC SUPPLEMENT.
 - ALL FULL PENETRATION WELD SHALL BE CONTINUOUSLY INSPECTED PER AWS D1.1 & D1.8.
 - SHOP CONNECTIONS SHALL BE WELDED UNLESS NOTED OTHERWISE. ALL FILLET WELDS SHALL BE A MINIMUM OF 3/16" E70XX ELECTRODES UNLESS OTHERWISE NOTED. GMAW IS ACCEPTABLE.
 - ALL STAINLESS STEEL BOLTS SHALL COMPLY WITH ASTM F-593, YIELD STRENGTH= 65 KSI, TENSILE STRENGTH=100 KSI MINIMUM, ALLOY GROUP 2, CONDITION CW1. ALL NUTS SHALL COMPLY WITH ASTM F-594 ALLOY GROUP 2, CONDITION CW1, REFERRING TO RSC. ASTM F-593 IS NOT CONSIDERED AS HIGH STRENGTH BOLTS. BOLTS SHALL BE TIGHTENED TO A SNUG TIGHT CONDITION (ST).
 - ALL STRUCTURAL STEEL (ITEMS FROM NOTE 5) SHALL BE POWDER COATED WITH ONE SHOP COAT (2.5 MILS MIN) OF ZINC-RICH PRIMER, UNDERCOAT, AND FINISH COAT, OR EQUIVALENT PAINT SYSTEM. THIS COAT IS A WEATHER RESISTANT POWDER COATING BASED ON POLYESTER TGIC (MANUFACTURED BY SHERWIN WILLIAMS, ASKO NOBEL, PPG OR TIGER DRYLAC), TO ACHIEVE OPTIMUM ADHESION. IT IS RECOMMENDED THAT THE PROPER TREATMENT AND DRYING TAKE PLACE BEFORE COATING. POLYESTER POWDER (TGIC) SPECIFICATIONS SHALL BE AS FOLLOWS:
- PENCIL HARDNESS (ASTM D3363) - HUMIDITY (ASTM D-2247)
- SOLVENT RESISTANCE (PCI METHOD) - 50 DIL RUBS SL SOFTNESS
 - ALL STEEL ROUND TUBING (ITEMS FROM NOTE 4) SHALL BE TRIPLE COATED FOR RUST PROTECTION USING THE IN-LINE ELECTROPLATING COAT PROCESS. TUBING SHALL BE INTERNALLY COATED WITH ZINC AND ORGANIC COATINGS TO PREVENT CORROSION AS MANUFACTURED BY ALLIED TUBE & CONDUIT.
 - ALL EXPOSED STEEL FASTENERS SHALL BE STAINLESS STEEL (TYPE 304 MINIMUM), HOT DIP GALVANIZED (ASTM A153, CLASS D MINIMUM OR ASTM F2329) AS APPLICABLE, OR PROTECTED WITH CORROSION PREVENTIVE COATING THAT DEMONSTRATED NO MORE THAN 2% OF RED RUST IN MINIMUM 1,000 HOURS OF EXPOSURE IN SALT SPRAY TEST PER ASTM B117. ZINC-PLATED FASTENERS DO NOT COMPLY WITH THIS REQUIREMENT.

CONCRETE SPECIFICATION

- CONCRETE SHALL BE SAMPLED AND TESTED PER CBC 2022 SECTION 1903A & SHALL BE INSPECTED PER SECTION 1903A.
- CONCRETE TO BE F_{cr} = 4500 PSI, TYPE V CEMENT PLUS POZZOLAN OR SLAG CEMENT, MAXIMUM WATER/CEMENT RATIO OF 0.45, PER ACI 318-19 CHAPTER 19. (NO ADMIXTURES CONTAINING CALCIUM CHLORIDE WILL BE USED.) REINFORCING STEEL SHALL CONFORM TO ASTM A616 GRADE 60 AND TO BE F_y 60000 PSI, MIN. GR. 60, ALSO COATED ACCORDING TO ASTM A767/A767M, STANDARD SPECIFICATION FOR ZINC-COATING (GALVANIZED) STEEL BARS FOR CONCRETE REINFORCEMENT.
- ALL ANCHOR BOLTS SET IN NEW CONCRETE (WHEN APPLICABLE) SHALL COMPLY WITH ASTM F-1554 GRADE 36 (GALVANIZED PER ASTM A153, CLASS D MINIMUM OR ASTM F2329). ANCHOR BOLTS DIAMETER NEEDS TO BE AS FOLLOWS:
A) ANCHOR BOLT Ø1 1/4"
- CERTIFIED MILL TEST REPORTS ARE TO BE PROVIDED FOR EACH SHIPMENT OF REINFORCEMENT.
- ALL NON-SHRINK GROUT SHALL HAVE A MINIMUM 28 DAYS COMPRESSIVE STRENGTH OF 5000 PSI, AND SHALL COMPLY THE REQUIREMENTS OF ASTM C109, ASTM C959, ASTM C1090, ASTM C1107, WHEN APPLICABLE.
- CONCRETE EXPOSED TO FREEZING-AND-THAWING CYCLES SHALL BE AIR ENTRAINED PER ACI 318 SECTION 19.3.3.

FABRIC SPECIFICATION

- FABRIC SHALL BE MANUFACTURED BY MULTIKNIT LTD., WHICH MEETS THE SPECIFICATIONS LISTED ON PAGE 2000, AND SHALL BE FABRICATED FROM POLYETHYLENE MATERIALS. MINIMUM SEAM LENGTH 3'4".
- THE FABRIC SHALL RETAIN 80% OF ITS TENSILE AND TEARING STRENGTH AFTER ULTRAVIOLET EXPOSURE PER ASTM G53 USING A 313 NM LIGHT SOURCE FOR 500 HOURS WHILE MOISTENED FOR 1 HOUR EVERY 12 HOURS.
- PROVIDE CERTIFICATION BY MANUFACTURER AND STATE FIRE MARSHAL TO SCHOOL'S DISTRICT INSPECTOR OF RECORD AT SITE SPECIFIC INSTALLATION. COPY OF FIRE CERTIFICATION SHALL BE SENT TO DSA.
- FABRIC SHALL REQUIRE ANNUAL INSPECTION AND MAINTENANCE BY THE DISTRICT. FIRE TEST ON FABRIC: NFPA 701 TEST 2 AND ASTM E 84 EXTENDED 30 MINUTES TEST. FLAME SPREAD INDEX (FSI): 10. SMOKE DEVELOPED INDEX (SDI): 50. FABRIC IS ACCEPTABLE FOR USE IN WILDLIFE URBAN INTERFACE AREA.
- FABRIC TOP NEEDS TO BE REMOVED IF SNOW EXCEEDING 5 PSF ARE ANTICIPATED. FABRIC TOP NEEDS TO BE REMOVED IF WINDS EXCEEDING 115 MPH ARE ANTICIPATED.
- A VISUAL INSPECTION LOOKING FOR TEAR AND ABNORMAL WEAR IN FABRIC MATERIAL AND THREAD IS REQUIRED PRIOR TO RE-INSTALLATION. USA SHADE & FABRIC STRUCTURES SHALL BE NOTIFIED IF SIGNIFICANT DAMAGE IS PRESENT BEFORE RE-INSTALLATION.

AIRCRAFT CABLE

- FOR FABRIC ATTACHMENT USE 3/8" x 19 GALV. CABLE PER ASTM A1023/A1023M, WITH A BREAKING STRENGTH VALUE OF 14,400 LBS. CABLE SHALL BE TENSIONED TO 300 LBS MINIMUM AND 500 LBS MAXIMUM. THE MAXIMUM CALCULATED CABLE ALLOWABLE CAPACITY IS 584#909 LB.
- CABLES SHALL BE FED THROUGH THE FABRIC SLEEVES AROUND THE PERIMETER OF THE CANOPY AND TENSIONED UNTIL THE FABRIC PANELS (DESIGNED PURPOSELY UNDERSIZED) REACH A TAUT APPEARANCE. ANY LONG TERM CABLE SAG SHALL BE MINIMIZED DURING THE MAINTENANCE RE-TIGHTENING VISITS AS REQUIRED.

MAXIMUM OCCUPANT LOAD (PER CBC 2022 TABLE 1604A.5)	
#1-12	250 PERSONS
-PUBLIC ASSEMBLY:	300 PERSONS
-EDUCATIONAL OCCUPANCIES	
ABOVE 12TH GRADE:	500 PERSONS

CBC PC DESIGN NOTES

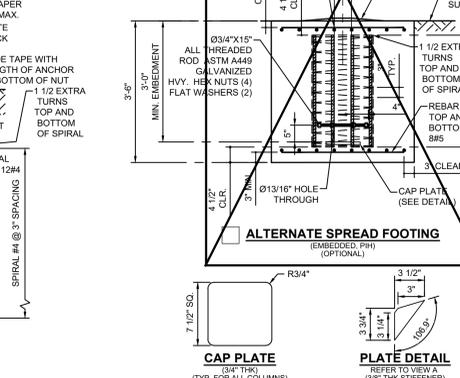
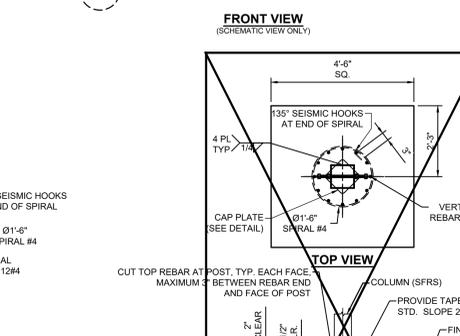
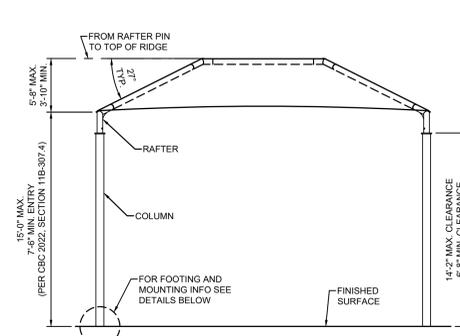
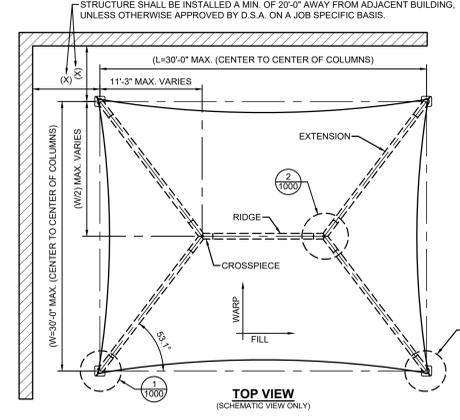
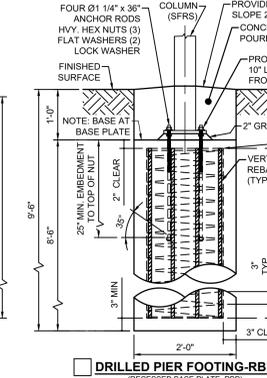
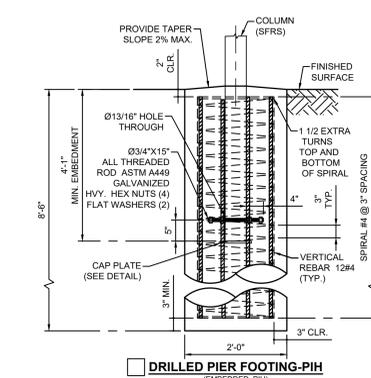
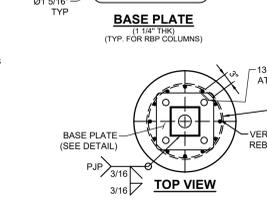
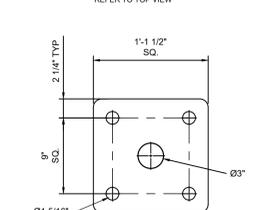
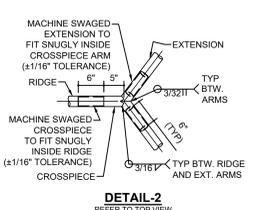
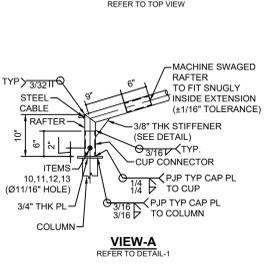
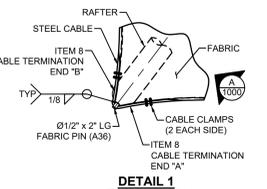
BUILDING CODE	CBC 2022 (BASED ON IBC 2021)
FLOOR LIVE LOAD	N/A
ROOF LIVE LOAD	5 PSF
ALLOWABLE SOIL PRESSURE:	
DL + LL (CONC FTG)	1500 PSF
DL + LL + SEISMIC (CONC FTG)	1500 PSF
LATERAL BEARING DESIGN VALUE	100 PSF/FT BELOW NATURAL GRADE, PER TABLE 1806A.2
TWO TIMES THE TABULAR VALUE IS USED (200 PSF/FT)	
PER CBC SECTION 1806A.3.4	
ALLOWABLE PIER FRICTIONAL RESISTANCE 250 PSF MAXIMUM	
BASED ON SECTION 1810A.3.3.1.4 (ONE-SIXTH OF THE BEARING VALUE).	
UPLOFT FRICTIONAL RESISTANCE HAVE A SAFETY FACTOR OF 3.	
RISE SNOW LOAD	5 PSF
ICE LOAD	ZERO PSF
FLOOD HAZARD AREA	ZONE X
NOTE: UNLESS A SITE-SPECIFIC GROUND MOTION HAZARD ANALYSIS IS PERFORMED, THE SM1 VALUE INCREASED BY 50% SHALL BE LESS THAN THE DESIGN CRITERIA STATED HEREIN.	
WIND DESIGN DIRECTIONAL PROCEDURE: ASCE 7-16, SECTION 27.3.2	
NOTE: WIND DESIGN IS LIMITED TO UNOBSTRUCTED CLEAR FLOW CONDITION	
-BASIC DESIGN WIND SPEED (3 SEC GUST)	V 115 MPH
-ASD WIND LOAD (CBC 2022 SEC. 1603A.1.4)	V _{IND} 90 MPH
-WIND EXPOSURE FACTOR	C
-TOPOGRAPHIC FACTOR	K _{zt} 1
-RISK CATEGORY	II
-VELOCITY PRESSURE EXPOSURE COEFFICIENT	K _z 0.88
-VELOCITY PRESSURE	q _z 25.32 PSF
SEISMIC DESIGN:	
-SITE CLASS	D
NOTE: UNLESS A SITE-SPECIFIC GROUND MOTION HAZARD ANALYSIS IS PERFORMED, THE SM1 VALUE INCREASED BY 50% SHALL BE LESS THAN THE DESIGN CRITERIA STATED HEREIN.	
-SPECTRAL RESPONSE COEFFICIENTS	S _S 3.00g S ₁ 1.399g
-SDS	2.00
-SD1	1.39
-LATERAL FORCE RESISTING SYSTEM G.2 ORDINARY CANTILEVERED COLUMN SYSTEM	
-SEISMIC IMPORTANCE FACTOR	I _e 1.0
-DESIGN BASE SHEAR AT BASE	V 3312 LB
-SEISMIC RESPONSE COEFFICIENTS	C _s 1.6
-RESPONSE MODIFICATION FACTOR	R 1.25
-ANALYSIS PROCEDURE	EQUIVALENT LATERAL FORCE
-RISK CATEGORY	II
-SEISMIC DESIGN CATEGORY	E
-SITE COEFFICIENT CATEGORY	F _a 1.2 F _v 1.5 p 1.3
-REDUNDANCY FACTOR	

ARCHITECT OF RECORD TO DETERMINE IF SPECIFIC SITE IS IN GEOLOGIC HAZARD ZONE. GEOHAZARD REPORT REQUIREMENTS PER DSA IR A.4.

PC OPTIONS SHALL NOT INCLUDE LIQUEFIABLE SOIL (EXCEPTION: OPEN FABRIC SHADE STRUCTURES 1,600 SQUARE FEET OR LESS COMPLYING WITH REQUIREMENTS OF IR A.4 SECTION 3.1.1). IF STRUCTURE IS LOCATED IN AN AREA WITH LIQUEFIABLE SOIL OR SITE CLASS F, OVER-THE-COUNTER SUBMITTAL IS NOT ALLOWED AND REGULAR PROJECT SUBMITTAL IS REQUIRED. IF SITE IS NOT IN A MAPPED LIQUEFACTION HAZARD ZONE, IT MAY BE PRESUMED THAT NO LIQUEFACTION HAZARD EXISTS ON THAT SITE UNLESS A SITE-SPECIFIC GEOTECHNICAL REPORT IDENTIFIES SUCH HAZARD.

MINIMUM FOUNDATION SETBACK LIMIT IN ADJACENT SLOPE: THE DEPTH OF REQUIRED PIER EMBEDMENT SHALL START FROM AN ELEVATION THAT CORRESPONDS WITH A HORIZONTAL CLEAR DISTANCE OF 14 FEET THAT INTERSECT WITH THE SLOPE (DAYLIGHTING). IF SETBACK LIMITS ARE SMALLER THAN CBC REQUIREMENTS, A SITE-SPECIFIC SOILS REPORT IS REQUIRED.

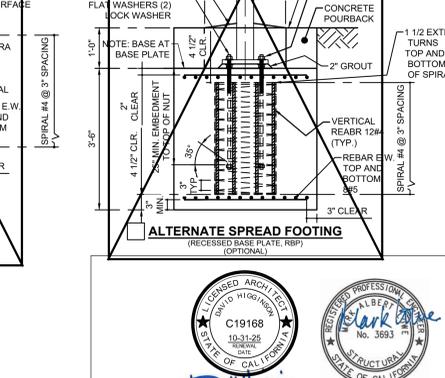
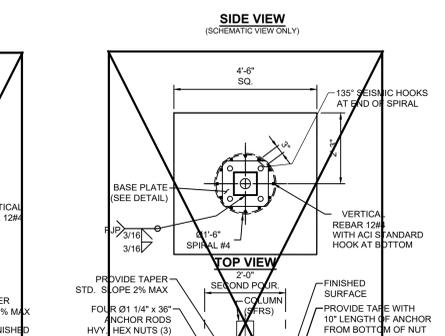
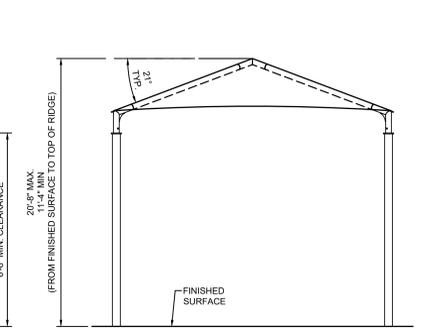
MINIMUM CLASS 2 PROJECT INSPECTOR REQUIRED.



LIST OF MATERIALS

ITEM	QTY	DESCRIPTION	MATERIAL
1	4	COLUMN	HSS 7.0 x 7.0 x 0.250
2	4	CUP CONNECTOR (6" LG)	HSS 4.5 x 0.375
3	4	RAFTER (GALVANIZED STEEL TUBE)	5.0 GA 7 RD. TUBE (HSS 5.0 x 0.188)
4	4	EXTENSION (GALVANIZED STEEL TUBE)	5.0 GA 7 RD. TUBE (HSS 5.0 x 0.188)
5	2	CROSSPIECE (GALVANIZED STEEL TUBE)	5.0 GA 7 RD. TUBE (HSS 5.0 x 0.188)
6	1	RIDGE (GALVANIZED STEEL TUBE)	5.0 GA 7 RD. TUBE (HSS 5.0 x 0.188)
7	1	FABRIC TOP	FR COLOURSHADE 190/F5
8	1	3/8" CABLE	GALVANIZED STEEL
9	4	3/8" CABLE CLAMP	GALVANIZED STEEL
10	4	5/8"-11NC x 6 1/2" HEX BOLT (ST)	316 SS
11	4	Ø5/8"-11NC HEX NUT	316 SS
12	8	Ø5/8" FLAT WASHER	316 SS
13	4	Ø5/8" SPLIT LOCK WASHER	316 SS

THE MINIMUM CLEARANCE REQUIRED BETWEEN DRILLED PIERS WHEN PLACING MULTIPLE OPEN FABRIC SHADE STRUCTURES ADJACENT TO EACH OTHER, FROM CENTER TO CENTER, IS THREE TIMES THE LEAST HORIZONTAL DIMENSION OF THE PIER PER CBC 2022 SEC. 1810A.2.5.



PLEASE RECYCLE



HMC Architects

3186-070-000

2101 CAPITOL AVENUE, SUITE 100, SACRAMENTO, CA 95816
916 368 7990 / www.hmcarchitects.com

ISSUE

DESCRIPTION	DATE

THESE PLANS AND SPECIFICATIONS ARE THE PROPERTY OF USA SHADE AND FABRIC STRUCTURES AND SHALL NOT BE REPRODUCED WITHOUT THEIR WRITTEN PERMISSION.



CORPORATE HEADQUARTERS
2580 ESTERS BLVD, SUITE 100
DFW AIRPORT, TX, 75261
800-966-5005

KEYNOTES

NOTES

STRUCTURE TYPE:
HIP
DSA

SIZE: MAXIMUM
30' x 30' x 15'e MAX.

FACILITY:
MATSUYAMA ELEMENTARY SCHOOL
7680 WINDBRIDGE DR.
SACRAMENTO, CA 95831

PROJECT:
MATSUYAMA ELEMENTARY SCHOOL MODERNIZATION

SHEET NAME:
P.C. DSA4013030-22

DSA SUBMITTAL

DATE: 01/04/2024 **CLIENT PROJ NO:** 3186-070-000

SHEET:

P.C.2.2-2000

Aircraft Cable

Prefomed, made in accordance with commercial specifications military and federal specification rope available.

Carbon Steel (Aircraft Cable) - Galvanized cable has the highest strength and greatest fatigue life of the materials offered. It has good to fair corrosion resistance in rural to industrial atmosphere environments. This material is most widely used for small diameter cables. Tin over galvanized cable offers greater corrosion resistance and reduced friction over pulleys.



7 x 19		Galvanized Min. Breaking Strengths (lbs)
Dia. (In)	Approx. Wt 1000 Ft/lbs	
3/32	17.	1,000
1/8	29.	2,000
5/32	45.	2,800
3/16	65.	4,200
7/32	86.	5,600
1/4	110.	7,000
9/32	139.	8,000
5/16	173.	9,800
3/8	243.	14,400



190/F5 Fire rated specifications

Standard range

Revision 0 28-Oct-12

Colour	Shade %	UV Block %	Average GSM	Average Warp break strength kgs	Average Elongation %	Average Weft break strength kgs	Average Elongation %	Average Burst Kpa	Average Burst to Mass ratio
Desert Sand	80	92	185	50	40	72	73	156	0.84
Blue	80	85	185	50	40	72	73	156	0.84
Brown	85	85	185	50	40	72	73	156	0.84
Green	80	85	185	50	40	72	73	156	0.84
Red	80	86	185	50	40	72	73	156	0.84
Silver	80	81	185	50	40	72	73	156	0.84
Terracotta	75	82	185	50	40	72	73	156	0.84
Yellow	80	89	185	50	40	72	73	156	0.84
			110 LB			159 LB			3258 PSF

CONVERSION TO IMPERIAL UNITS:
185 GSM = .0378 psf
50 KGS = 110 Lb
72 Kpa = 159 Lb
156 Kpa = 3258 psf

Notes:
190/F5 conforms to The California State Fire Marshal Title 19 Test for Small scale Fabrics
Tear tests are done using a 50mm wide strip and a cross head speed of 500mm/min
This report has been compiled using the mean results from all tests conducted on the given sample by our Quality Control Laboratory. The information provided is considered to be a good reflection of the relevant properties of the fabric tested. These results must only be used as an indication of the quality and characteristics of the fabric tested.
Company cannot be held responsible or liable in any way whatsoever should this information differ to that of a registered testing institution.

Deon Joubert
General Manager - Multiknit (Pty) Ltd

Tommy Rogers
Managing Director - Multiknit (Pty) Ltd



Product Marketed by:
MULTIKNIT (PTY) LTD
BOX 798 WHITE RIVER 1240
MPUMALANGA SOUTH AFRICA

Issue Date: 05/08/2023
Expiration Date: 06/30/2024

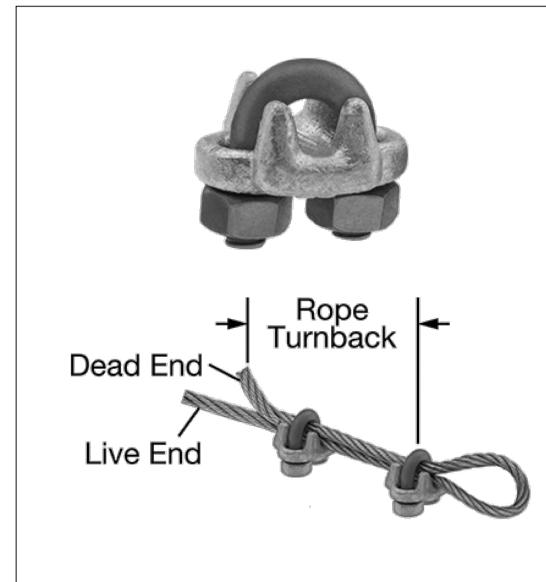
This product meets the minimum requirements of flame resistance established by the California State Fire Marshal for products identified in Section 13115, California Health and Safety Code. The scope of the approved use of this product is provided in the current edition of the CALIFORNIA APPROVED LIST OF FLAME RETARDANT CHEMICALS AND FABRICS, GENERAL AND LIMITED APPLICATIONS CONCERNS published by the California State Fire Marshal.

Issued By Cortney Walker
Fire Engineering License Manager
Fire Engineering & Investigations Division

Reviewed and Approved By Patricia Setter
Deputy State Fire Marshal III
Fire Engineering & Investigations Division

OFFICE OF THE STATE FIRE MARSHAL

Please visit calfire.gov/motus.org for more information on Licensing and Permitting with CAL FIRE



FORGED WIRE ROPE CLAMP

FITTING TYPE: ROPE CLAMP
FABRICATION: FORGED
MATERIAL: GALVANIZED STEEL
FOR WIRE ROPE DIAMETER: 3/8"
NUMBER OF CLAMPS REQUIRED: 2
ROPE TURNBACK: 6 1/2"
FOR WIRE ROPE CONSTRUCTION: 7 x 19
ATTACHMENT TYPE: LOOP
CLAMP WIDTH: 2"; **HEIGHT:** 1 15/16"; **THICKNESS:** 1 11/16"
REQUIRED INSTALLATION TOOL: TORQUE WRENCH
REQUIRED TORQUE: 45 FT.-LBS.
CAPACITY: 80% OF THE ROPE'S CAPACITY
SPECIFICATIONS MET: ASME B30.26, FED. SPEC. FF-C-450



Autodesk Docs: 0318070000 - SCLSD Matsuyama ES Modernization 0318070000-A-MATSUYAMA-MOD-04 12/21/2023 1:52:43 PM

AGENCY APPROVAL:



HMC Architects
3186-070-000

2101 CAPITOL AVENUE, SUITE 100,
SACRAMENTO, CA 95816
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ISSUE	DESCRIPTION	DATE
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CORPORATE HEADQUARTERS
2580 ESTERS BLVD, SUITE 100
DFW AIRPORT, TX, 75261
800-966-5005

KEYNOTES

NOTES

STRUCTURE TYPE: H I P DSA
SIZE: MAXIMUM 40' x 40' x 15'e MAX.

FACILITY: MATSUYAMA ELEMENTARY SCHOOL
7680 WINDBRIDGE DR.
SACRAMENTO, CA 95831

PROJECT: MATSUYAMA ELEMENTARY SCHOOL MODERNIZATION

SHEET NAME: P.C. DSA4014040-22

DATE: 01/04/2024 CLIENT PROJ NO: 3186-070-000

SHEET: DSA SUBMITTAL

PLEASE RECYCLE

P.C.4.1-1000

GENERAL NOTES

- SPECIAL INSPECTION REQUIREMENTS SHALL FOLLOW THE ATTACHED SAMPLE TEST AND INSPECTION LIST (T & LIST) APPROVED BY DSA. THE SHOP WELDING INSPECTION SHALL INCLUDE WELDING OF ALL STEEL MEMBERS AND IDENTIFICATION OF STEEL THROUGH MILL CERTIFICATE OR MATERIAL TESTING. UNCERTIFIED STEEL SHALL BE TESTED TO THE REQUIREMENTS OF CBC 2022 CHAPTER 17A. THE FIELD SPECIAL INSPECTION SHALL INCLUDE COMPRESSION CYLINDER TESTS FOR THE CONCRETE FOUNDATION.
 - STRUCTURE SHALL BE IN THE LOCATION SHOWN ON THE SITE SPECIFIC DSA APPLICATION DRAWING.
 - FOUNDATION DESIGN BASED ON CBC 2022, TABLE 1806A.2, SOIL CLASS 5 (ALLOWABLE FOUNDATION PRESSURE 1500 PSF)
 - DESIGN PER FOLLOWING CODES: CBC 2022 (CHAPTER 35), ASCE 7-16, AISC 360-16, AISC 341-16, ACI 318-19, ASCE 55-16 & ASCE 19-16
- STRUCTURAL STEEL**
- FABRICATION OF THE STEEL STRUCTURES SHALL BE PERFORMED BY SHADE STRUCTURES OR AN AUTHORIZED LICENSEE. MATERIAL TESTING (OR MILL CERTIFICATES) AND INSPECTION OF WELDING SHALL BE CONDUCTED PER CBC 2022 SECTIONS 1704A, 1705A, 1705A.2, AND TABLE 1705A.2.1.
 - ONLY CALIFORNIA LICENSED CONTRACTORS AUTHORIZED BY SHADE STRUCTURES SHALL INSTALL THE SHADE STRUCTURES.
 - ALL WORK SHALL CONFORM TO CBC 2022 EDITION, TITLE 24, CALIFORNIA CODE OF REGULATIONS (CCR)
 - ALL GALVANIZED STEEL TUBE PRODUCTS MANUFACTURED BY ALLIED TUBE & CONDUIT FOR THIS STRUCTURE SHALL BE, AND CONFORM TO ASTM A500-16 GRADE C, IN ITS ENTIRETY. TYPICAL MECHANICAL PROPERTIES ARE:
ROUND TUBE GRADE C 46,000 PSI YIELD STRESS MINIMUM / 62,000 PSI TENSILE STRESS MINIMUM
 - ALL STRUCTURAL SHAPES SHALL BE COLD FORMED HSS ASTM A500 GRADE C, UNLESS OTHERWISE NOTED. TYPICAL MECHANICAL PROPERTIES ACHIEVED FOR HSS PRODUCTS:
SQUARE AND RECTANGULAR 50,000 PSI YIELD STRESS / 62,000 PSI TENSILE STRESS
ROUND PIPE 50,000 PSI YIELD STRESS / 62,000 PSI TENSILE STRESS
 - ALL PLATES PRODUCTS SHALL COMPLY WITH ASTM A572 GRADE 50.
 - STRUCTURAL STEEL SHALL BE DETAILED, FABRICATED AND ERRECTED IN ACCORDANCE WITH A.I.S.C. SPECIFICATIONS.
 - ALL WELDING TO CONFORM WITH AMERICAN WELDING SOCIETY STANDARDS AND SHALL BE INSPECTED BY AN AWS/CWI INSPECTOR. AWS D1.1 FOR HOT ROLLED, AWS D1.3 FOR SHEET/COLD FORMED, AWS D1.8 SEISMIC SUPPLEMENT.
 - ALL FULL PENETRATION WELD SHALL BE CONTINUOUSLY INSPECTED PER AWS D1.1 & D1.8.
 - SHOP CONNECTIONS SHALL BE WELDED UNLESS NOTED OTHERWISE. ALL FILLET WELDS SHALL BE A MINIMUM OF 3/16" ER70S6X ELECTRODES UNLESS OTHERWISE NOTED. GMAW IS ACCEPTABLE.
 - ALL STAINLESS STEEL BOLTS SHALL COMPLY WITH ASTM F-593, YIELD STRENGTH= 45 KSI, TENSILE STRENGTH= 85 KSI MINIMUM, ALLOY GROUP 2, CONDITION C.W.2. ALL NUTS SHALL COMPLY WITH ASTM F-594 ALLOY GROUP 2, CONDITION C.W.2. REFERRING TO R.C.C.C. ASTM F-593 IS NOT CONSIDERED AS HIGH STRENGTH BOLTS. BOLTS SHALL BE TIGHTENED TO A SNUG TIGHT CONDITION (ST).
 - ALL STRUCTURAL STEEL (ITEMS FROM NOTE 5) SHALL BE POWDER COATED WITH ONE SHOP COAT (2.5 MILS MIN) OF ZINC-RICH PRIMER, UNDERCOAT, AND FINISH COAT, OR EQUIVALENT PAINT SYSTEM. THIS COAT IS A WEATHER RESISTANT POWDER COATING BASED ON POLYESTER TGIC (MANUFACTURED BY SHERWIN WILLIAMS, AKSO NOBEL, PPG OR TIGER DRYLAC). TO ACHIEVE OPTIMUM ADHESION, IT IS RECOMMENDED THAT THE PROPER TREATMENT AND DRYING TAKE PLACE BEFORE COATING. POLYESTER POWDER (TGIC) SPECIFICATIONS SHALL BE AS FOLLOWS:
- PENCIL HARDNESS (ASTM D-3353); - HUMIDITY (ASTM D-2247)
- SOLVENT RESISTANCE (PCI METHOD) - 50 DBL RUBS SL SOFTNESS.
 - ALL STEEL ROUND TUBING (ITEMS FROM NOTE 4) SHALL BE TRIPLE COATED FOR RUST PROTECTION USING THE IN-LINE ELECTROPLATING COAT PROCESS. TUBING SHALL BE INTERNALLY COATED WITH ZINC AND ORGANIC COATINGS TO PREVENT CORROSION AS MANUFACTURED BY ALLIED TUBE & CONDUIT.
 - ALL EXPOSED STEEL FASTENERS SHALL BE STAINLESS STEEL (TYPE 304 MINIMUM), HOT DIP GALVANIZED (ASTM A153, CLASS D MINIMUM OR ASTM F2329) AS APPLICABLE, OR PROTECTED WITH CORROSION PREVENTIVE COATING THAT DEMONSTRATED NO MORE THAN 2% OF RED RUST IN MINIMUM 1,000 HOURS OF EXPOSURE IN SALT SPRAY TEST PER ASTM B117. ZINC-PLATED FASTENERS DO NOT COMPLY WITH THIS REQUIREMENT.

CONCRETE SPECIFICATION

- CONCRETE SHALL BE SAMPLED AND TESTED PER CBC 2022 SECTION 1903A & SHALL BE INSPECTED PER SECTION 1903A.
- CONCRETE TO BE F_{cm} 4500 PSI, TYPE V CEMENT PLUS POZZOLAN OR SLAG CEMENT, MAXIMUM WATER/CEMENT RATIO OF 0.45, PER ACI 318-19 CHAPTER 19. (NO ADMIXTURES CONTAINING CALCIUM CHLORIDE WILL BE USED.) REINFORCING STEEL SHALL CONFORM TO ASTM A-615 GRADE 60 AND TO BE F_y 60,000 PSI, MIN. GR. 60. ALSO COATED ACCORDING TO ASTM A776/ A776M, STANDARD SPECIFICATION FOR ZINC-COATING (GALVANIZED) STEEL BARS FOR CONCRETE REINFORCEMENT.
- ALL ANCHOR BOLTS SET IN NEW CONCRETE (WHEN APPLICABLE) SHALL COMPLY WITH ASTM F-1554 GRADE 36 (GALVANIZED PER ASTM A153, CLASS D MINIMUM OR ASTM F2329). ANCHOR BOLTS DIAMETER NEEDS TO BE AS FOLLOWS:
A) ANCHOR BOLT Ø1 1/4"
- CERTIFIED MILL TEST REPORTS ARE TO BE PROVIDED FOR EACH SHIPMENT OF REINFORCEMENT.
- ALL NON-SHRINK GROUT SHALL HAVE A MINIMUM 28 DAYS COMPRESSIVE STRENGTH OF 5000 PSI, AND SHALL COMPLY THE REQUIREMENTS OF ASTM C109, ASTM C399, ASTM C1090, ASTM C1107, WHEN APPLICABLE.
- CONCRETE EXPOSED TO FREEZING-AND-THAWING CYCLES SHALL BE AIR ENTRAINED PER ACI 318 SECTION 19.3.3.

FABRIC SPECIFICATION

- FABRIC SHALL BE MANUFACTURED BY MULTIKNIT LTD., WHICH MEETS THE SPECIFICATIONS LISTED ON PAGE 2000, AND SHALL BE FABRICATED FROM POLYETHYLENE MATERIALS. MINIMUM SEAM LENGTH 3/4".
- THE FABRIC SHALL RETAIN 80% OF ITS TENSILE AND TEARING STRENGTH AFTER ULTRAVIOLET EXPOSURE PER ASTM G53 USING A 315 NM LIGHT SOURCE FOR 500 HOURS WHILE MOISTENED FOR 1 HOUR EVERY 12 HOURS.
- PROVIDE CERTIFICATION BY MANUFACTURER AND STATE FIRE MARSHAL TO SCHOOLS DISTRICT INSPECTOR OF RECORD AT SITE SPECIFIC INSTALLATION. COPY OF FIRE CERTIFICATION SHALL BE SENT TO DSA.
- FABRIC SHALL REQUIRE ANNUAL INSPECTION AND MAINTENANCE BY THE DISTRICT. FIRE TEST ON FABRIC: NFPA 701 TEST 2 AND ASTM E 84 EXTENDED 30 MINUTES TEST. FLAME SPREAD INDEX (FSI): 10. SMOKE DEVELOPED INDEX (SDI): 50. FABRIC IS ACCEPTABLE FOR USE IN WILDLIFE URBAN INTERFACE AREA.
- FABRIC TOP NEEDS TO BE REMOVED IF SNOW EXCEEDING 6 PSF ARE ANTICIPATED. FABRIC TOP NEEDS TO BE REMOVED IF WINDS EXCEEDING 115 MPH ARE ANTICIPATED.
- A VISUAL INSPECTION LOOKING FOR TEAR AND ABNORMAL WEAR IN FABRIC MATERIAL AND THREAD IS REQUIRED PRIOR TO RE-INSTALLATION. USA SHADE & FABRIC STRUCTURES SHALL BE NOTIFIED IF SIGNIFICANT DAMAGE IS PRESENT BEFORE RE-INSTALLATION.

AIRCRAFT CABLE

- FOR FABRIC ATTACHMENT USE 3/8" 7x19 GALV. CABLE PER ASTM A1023/A1023M, WITH A BREAKING STRENGTH VALUE OF 14,400 LBS. CABLE SHALL BE TENSIONED TO 300 LBS MINIMUM AND 500 LBS MAXIMUM. THE MAXIMUM CALCULATED CABLE ALLOWABLE CAPACITY IS 594=909 LB.
- CABLES SHALL BE FED THROUGH THE FABRIC SLEEVES AROUND THE PERIMETER OF THE CANOPY AND TENSIONED UNTIL THE FABRIC PANELS (DESIGNED PURPOSELY UNDERSIZED) REACH A TAUT APPEARANCE. ANY LONG TERM CABLE SAG SHALL BE MINIMIZED DURING THE MAINTENANCE RE-TIGHTENING VISITS AS REQUIRED.

MAXIMUM OCCUPANT LOAD (PER CBC 2022 TABLE 1604A.5)
K-12: 250 PERSONS
PUBLIC ASSEMBLY: 300 PERSONS
EDUCATIONAL OCCUPANCIES ABOVE 12TH GRADE: 500 PERSONS

CBC PC DESIGN NOTES

BUILDING CODE	CBC 2022 (BASED ON IBC 2021)
FLOOR LIVE LOAD	N/A
ROOF LIVE LOAD	5 PSF
ALLOWABLE SOIL PRESSURE:	
DL + LL (CONC FTG)	1500 PSF
DL + LL + SEISMIC (CONC FTG)	1500 PSF
LATERAL BEARING DESIGN VALUE	100 PSF/FT BELOW NATURAL GRADE, PER TABLE 1806A.2

TWO TIMES THE TABULAR VALUE IS USED (200 PSF/FT)
PER CBC SECTION 1806A.3.4.
ALLOWABLE PIER FRICTIONAL RESISTANCE 250 PSF MAXIMUM
BASED ON SECTION 1810A.3.3.1.4 (ONE-SIXTH OF THE BEARING VALUE).
ULIFT FRICTIONAL RESISTANCE HAVE A SAFETY FACTOR OF 3.

ROOF SNOW LOAD 5 PSF
ICE LOAD ZERO PSF
FLOOD HAZARD AREA ZONE X
NOTE: WIND DESIGN IS LIMITED TO UNOBSTRUCTED CLEAR FLOW CONDITION
WHEN A SITE SPECIFIC PROJECT IS LOCATED IN A FLOOD ZONE OTHER THAN ZONE X, A LETTER STAMPED AND SIGNED FROM A SOILS ENGINEER IS NEEDED TO VALIDATE THE ALLOWABLE SOIL VALUES SPECIFIED IN THE PC ARE STILL APPLICABLE.

WIND DESIGN DIRECTIONAL PROCEDURE: ASCE 7-16, SECTION 27.3.2
NOTE: WIND DESIGN IS LIMITED TO UNOBSTRUCTED CLEAR FLOW CONDITION
- BASIC DESIGN WIND SPEED (3 SEC GUST) V 115 MPH
- ASD WIND LOAD (CBC 2022 SEC. 1603A.1.4) C_w 90 MPH
- WIND EXPOSURE FACTOR K_z 1
- TOPOGRAPHIC FACTOR K_t 1
- RISK CATEGORY II
- VELOCITY PRESSURE EXPOSURE COEFFICIENT K_z 0.89
- VELOCITY PRESSURE q_z 25.61 PSF

SEISMIC DESIGN: - SITE CLASS D
NOTE: UNLESS A SITE-SPECIFIC GROUND MOTION HAZARD ANALYSIS IS PERFORMED, THE SM₁ VALUE INCREASED BY 50% SHALL BE LESS THAN THE DESIGN CRITERIA STATED HEREIN.

-SPECTRAL RESPONSE COEFFICIENTS
SS 3.00g
S1 1.389g
SDS 2.00
SD1 1.39

-LATERAL FORCE RESISTING SYSTEM G.2 ORDINARY CANTILEVERED COLUMN SYSTEM

-SEISMIC IMPORTANCE FACTOR I_e 1.0
-DESIGN BASE SHEAR AT BASE V 5512 LB
-SEISMIC RESPONSE COEFFICIENTS C_s 1.6
-RESPONSE MODIFICATION FACTOR R 1.25
-ANALYSIS PROCEDURE EQUIVALENT LATERAL FORCE
-RISK CATEGORY II
-SEISMIC DESIGN CATEGORY Fa 1.2
-SITE COEFFICIENT Fv 1.5
-REDUNDANCY FACTOR ρ 1.3

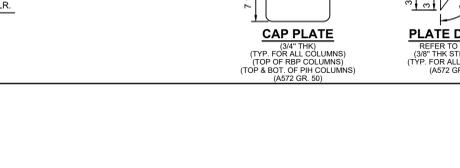
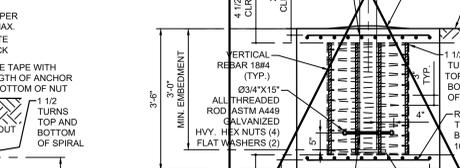
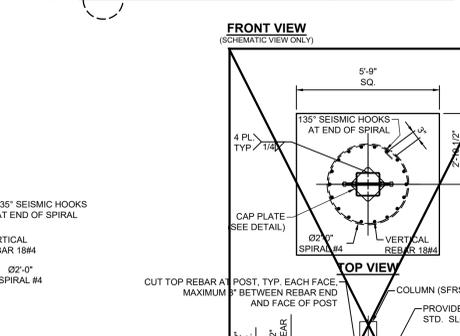
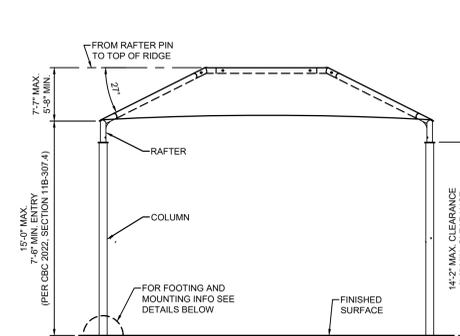
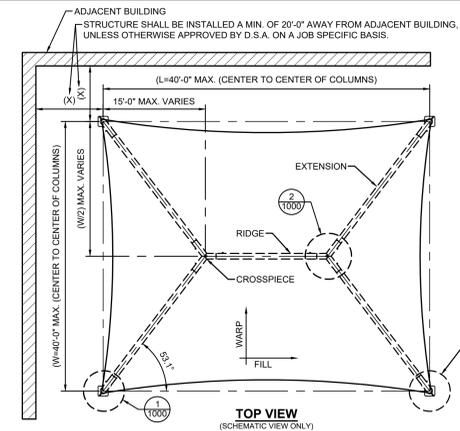
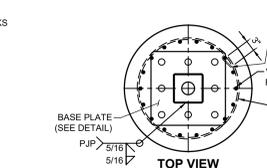
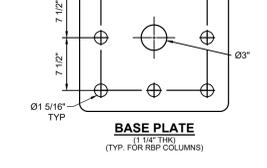
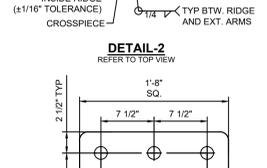
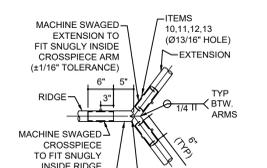
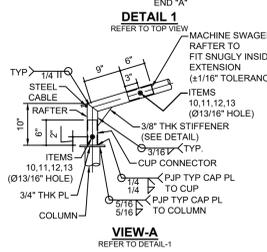
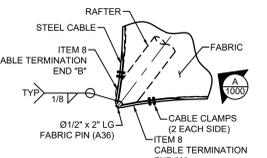
GEHAZARD REPORT IS NOT REQUIRED FOR OPEN FABRIC STRUCTURES 1,600 SQ FT OR LESS COMPLYING WITH THE REQUIREMENTS OF IR A-4 SECTION 3.1.1. OPEN FABRIC SHADE STRUCTURES: GREATER THAN 1,600 SQUARE FEET UP TO A MAXIMUM OF 4,000 SQUARE FEET AND COMPLYING WITH THE REQUIREMENTS NOTED IN IR A-4 SECTION 3.1.1 DO NOT REQUIRE A GEHAZARD REPORT PROVIDED A GEOTECHNICAL REPORT INDICATES THAT NO LIQUEFACTION POTENTIAL EXISTS.

ARCHITECT OF RECORD TO DETERMINE IF SPECIFIC SITE IS IN GEOLOGIC HAZARD ZONE. GEHAZARD REPORT REQUIREMENTS PER DSA IR 4.

PC OPTIONS SHALL NOT INCLUDE LIQUEFIABLE SOIL (EXCEPTION: OPEN FABRIC SHADE STRUCTURES 1,600 SQUARE FEET OR LESS COMPLYING WITH REQUIREMENTS OF IR A-4 SECTION 3.1.1). IF STRUCTURE IS LOCATED IN AN AREA WITH LIQUEFIABLE SOIL OR SITE CLASS F, OVER-THE-COUNTER SUBMITTAL IS NOT ALLOWED AND REGULAR PROJECT SUBMITTAL IS REQUIRED. IF SITE IS NOT IN A MAPPED LIQUEFACTION HAZARD ZONE, IT MAY BE PRESUMED THAT NO LIQUEFACTION HAZARD EXISTS ON THAT SITE UNLESS A SITE-SPECIFIC GEOTECHNICAL REPORT IDENTIFIES SUCH HAZARD.

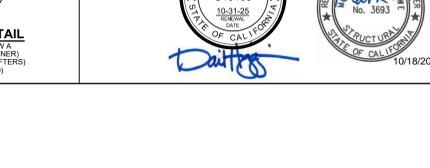
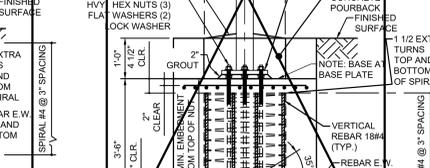
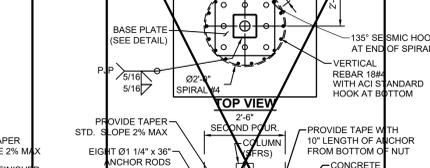
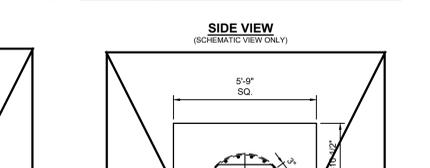
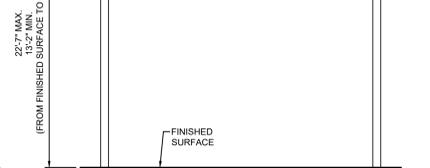
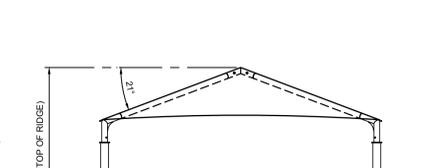
MINIMUM FOUNDATION SETBACK LIMIT IN ADJACENT SLOPE: THE DEPTH OF REQUIRED PIER EMBEDMENT SHALL START FROM AN ELEVATION THAT CORRESPONDS WITH A HORIZONTAL CLEAR DISTANCE OF 17'-6" FEET THAT INTERSECT WITH THE SLOPE (DAWLIGHTING). IF SETBACK LIMITS ARE SMALLER THAN CBC REQUIRES, A SITE-SPECIFIC SOILS REPORT IS REQUIRED.

MINIMUM CLASS 2 PROJECT INSPECTOR REQUIRED.



LIST OF MATERIALS			
ITEM	QTY	DESCRIPTION	MATERIAL
1	4	COLUMN	HSS 7.0 x 7.0 x 0.375
2	4	CUP CONNECTOR (6" LG)	HSS 5.0 x 0.375
3	4	RAFTER	HSS 5.563 x 0.250
4	4	EXTENSION	HSS 5.563 x 0.250
5	2	CROSSPIECE	HSS 5.563 x 0.268
6	1	RIDGE	HSS 5.563 x 0.268
7	1	FABRIC TOP	FR COLOURSHADE 1900FS
8	1	Ø3/8" CABLE	GALVANIZED STEEL
9	4	Ø3/8" CABLE CLAMP	GALVANIZED STEEL
10	14	Ø3/4"-10NC x 7" HEX BOLT (ST)	316 SS
11	14	Ø3/4"-10NC HEX NUT	316 SS
12	14	Ø3/4" SPLIT LOCK WASHER	316 SS
13	28	Ø3/4" FLAT WASHER	316 SS

THE MINIMUM CLEARANCE REQUIRED BETWEEN DRILLED PIERS WHEN PLACING MULTIPLE OPEN FABRIC SHADE STRUCTURES ADJACENT TO EACH OTHER, FROM CENTER TO CENTER, IS THREE TIMES THE LEAST HORIZONTAL DIMENSION OF THE PIER PER CBC 2022 SEC. 1810A.2.5.



SEAL: C19168, 10-31-2023, STATE OF CALIFORNIA, ARCHITECT. SEAL: 10/19/2023.

Aircraft Cable

Preformed, made in accordance with commercial specifications military and federal specification rope available.

Carbon Steel (Aircraft Cable) - Galvanized cable has the highest strength and greatest fatigue life of the materials offered. It has good to fair corrosion resistance in rural to industrial atmosphere environments. This material is most widely used for small diameter cables. Tin over galvanized cable offers greater corrosion resistance and reduced friction over pulleys.



7 x 19		Galvanized Min. Breaking Strengths (lbs)
Dia. (In)	Approx. Wt 1000 Ft/lbs	
3/32	17.	1,000
1/8	29.	2,000
5/32	45.	2,800
3/16	65.	4,200
7/32	86.	5,600
1/4	110.	7,000
9/32	139.	8,000
5/16	173.	9,800
3/8	243.	14,400



190/F5 Fire rated specifications

Standard range

Revision 0 28-Oct-12

Colour	Shade %	UV Block %	Average GSM	Average Warp break strength kgs	Average Elongation %	Average Weft break strength kgs	Average Elongation %	Average Burst Kpa	Average Burst to Mass ratio
Desert Sand	80	92	185	50	40	72	73	156	0.84
Blue	80	85	185	50	40	72	73	156	0.84
Brown	85		185	50	40	72	73	156	0.84
Green	80	85	185	50	40	72	73	156	0.84
Red	80	86	185	50	40	72	73	156	0.84
Silver	80	81	185	50	40	72	73	156	0.84
Terracotta	75	82	185	50	40	72	73	156	0.84
Yellow	80	89	185	50	40	72	73	156	0.84
			110 LB			159 LB			3258 PSF

CONVERSION TO IMPERIAL UNITS:
185 GSM = .0378 psf
50 KGS = 110 Lb
72 KGS = 159 Lb
156 Kpa = 3258 psf

Notes:
190/F5 conforms to The California State Fire Marshal Title 19 Test for Small scale Fabrics
Tear tests are done using a 50mm wide strip and a cross head speed of 500mm/min
This report has been compiled using the mean results from all tests conducted on the given sample by our Quality Control Laboratory, the information provided is considered to be a good reflection of the relevant properties of the fabric tested. These results must only be used as an indication of the quality and characteristics of the fabric tested.
Our Company cannot be held responsible or liable in any way whatsoever should this information differ to that of a registered testing institution.

Deon Joubert
Deon Joubert
General Manager - Multiknit (Pty) Ltd

Tommy Rogers
Tommy Rogers
Managing Director - Multiknit (Pty) Ltd

FLAME RETARDANT

Fabric Registration
LICENSE NUMBER: F-052001
COLOURSHADE 190/F5

Product Marketed by:
MULTIKNIT (PTY) LTD
BOX 798 WHITE RIVER 1240
MPUMALANGA SOUTH AFRICA .

Issue Date : 05/08/2023
Expiration Date : 06/30/2024

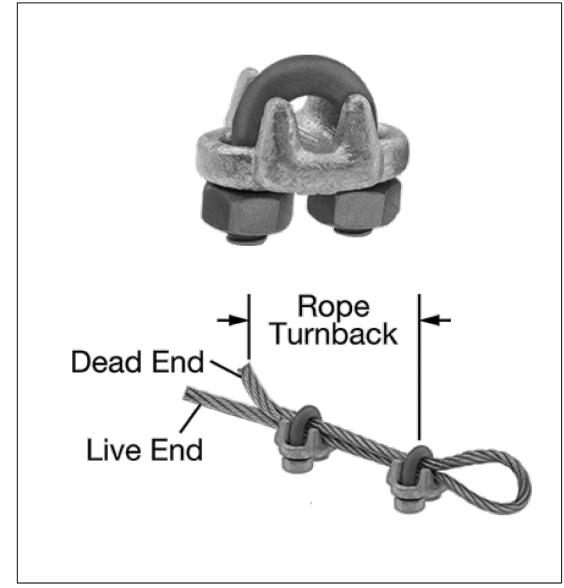
This product meets the minimum requirements of flame resistance established by the California State Fire Marshal for products identified in Section 13115, California Health and Safety Code. The scope of the approved use of this product is provided in the current edition of the CALIFORNIA APPROVED LIST OF FLAME RETARDANT CHEMICALS AND FABRICS, GENERAL AND LIMITED APPLICATIONS CONCERNS published by the California State Fire Marshal.

Issued By *C Walker* Cortney Walker
Fire Engineering License Manager
Fire Engineering & Investigations Division

Reviewed and Approved By *Patricia Setter*
Deputy State Fire Marshal III
Fire Engineering & Investigations Division

OFFICE OF THE STATE FIRE MARSHAL

Please visit callfire.govmotus.org for more information on Licensing and Permitting with CAL FIRE



FORGED WIRE ROPE CLAMP

FITTING TYPE ROPE CLAMP
FABRICATION: FORGED
MATERIAL: GALVANIZED STEEL
FOR WIRE ROPE DIAMETER 3/8"
NUMBER OF CLAMPS REQUIRED: 2
ROPE TURNBACK: 6 1/2"
FOR WIRE ROPE CONSTRUCTION 7 x 19
ATTACHMENT TYPE: LOOP
CLAMP WIDTH 2"; HEIGHT 1 15/16"; THICKNESS 1 11/16"
REQUIRED INSTALLATION TOOL TORQUE WRENCH
REQUIRED TORQUE 45 FT.-LBS.
CAPACITY 80% OF THE ROPE'S CAPACITY
SPECIFICATIONS MET ASME B30.26, FED. SPEC. FF-C-450

10/18/2023

AGENCY APPROVAL:



HMC Architects
3186-070-000
2101 CAPITOL AVENUE, SUITE 100,
SACRAMENTO, CA 95816
916 368 7990 / www.hmcarchitects.com

ISSUE

DESCRIPTION	DATE
THESE PLANS AND SPECIFICATIONS ARE THE PROPERTY OF USA SHADE AND FABRIC STRUCTURES AND SHALL NOT BE REPRODUCED WITHOUT THEIR WRITTEN PERMISSION.	

USASHADE & Fabric Structures
 CORPORATE HEADQUARTERS
 2580 ESTERS BLVD, SUITE 100
 DFW AIRPORT, TX, 75261
 800-966-5005

KEYNOTES

NOTES

STRUCTURE TYPE: H I P
DSA
SIZE: MAXIMUM
40' x 40' x 15'e MAX.

FACILITY:
MATSUYAMA ELEMENTARY SCHOOL
7680 WINDBRIDGE DR.
SACRAMENTO, CA 95831

PROJECT:
MATSUYAMA ELEMENTARY SCHOOL MODERNIZATION

SHEET NAME:
P.C. DSA4014040-22

DSA SUBMITTAL

DATE: 01/04/2024 CLIENT PROJ NO: 3186-070-000
SHEET:

P.C.4.2-2000