COLLEGEVILLE ELEMENTARY SCHOOL:
(2)20x50 SHADE STRUCTURES
6701 S. JACK TONE ROAD, STOCKTON, CA. 95215
ESCALON UNIFIED SCHOOL DISTRICT

ABV	ABOVE
AFF	ABOVE FINISH FLOOR
ACC	ACCESSIBLE
ACOUS	ACOUSTICAL
ADJ	ADJUSTABLE
A/C	AIR CONDITIONING
ALT	ALTERNATE
ALUM	ALUMINUM
AB	ANCHOR BOLT
ANOD	ANODIZED
ARCH	ARCHITECT(URAL)
AC	ASPHALT CONCRETE
APL	ASSUMED PROPERTY LINE
AUTO	AUTOMATIC
BM	BEAM
BET	BETWEEN
BLK	BLOCK
BLKG	BLOCKING
BD	BOARD
BOT	BOTTOM
BOB	BOTTOM OF BEAM
BLDG	BUILDING
CIP	CAST IN PLACE
CB	CATCH BASIN
CLKG	CAULKING
CLG	CEILING
CJ	CEILING JOIST / CONTROL JOINT
CEM	CEMENT
CL	CHAIN LINK
CO	CLEAN OUT
CLR	CLEAR(ENCE)
COL	COLUMN
COMB	COMBINATION
CONC	CONCRETE
CMU	CONCRETE MASONRY UNIT
CONST	CONSTRUCTION
CONT	CONTINUOUS
CTSK	COUNTER SINK
DP	DEEP
D	DEEP (DEPTH)
DEPT	DEPARTMENT
DTL	DETAIL
DIAG	DIAGONAL
DIA	DIAMETER
DIM	DIMENSION
DISP	DISPENSER
DR	DOOR
DBL	DOUBLE
DF	DOUGLAS FIR
DN	DOWN
DS	DOWN SPOUT
DWG	DRAWING
DF	DRINKING FOUNTAIN
EA	EACH
EW	EACH WAY
E	EAST
EWC	ELECT. WATER COOLER
ELEC	ELECTRIC(AL)
ELEV	ELEVATION
EMER	EMERGENCY
ENCL	ENCLOSURE
EQ	EQUAL
EXH	EXHAUST
	EXISTING
EJ	EXPANSION JOINT
EXP	EXPOSED/EXPANSION
EXT	EXTERIOR
FOC	FACE OF CONCRETE
FOF	FACE OF FINISH
FOM	FACE OF MASONRY
FOS	FACE OF STUD/STRUCTURE
FIN	FINISH
FF	FINISH FLOOR
FA	FIRE ALARM
FE	FIRE EXTINGUISHER
FEC	FIRE EXTINGUISHER CABINET
FH	FIRE HYDRANT
FLASH	FLASHING
FLR	FLOOR
FT	FOOT / FEET
FTG	FOOTING
FDN	FOUNDATION
GA	GAGE / GAUGE
GI	GALVANIZED IRON
GL	GLASS / GLAZING
GALV	GLAVANIZED
GLB	GLUE LAMINATED BEAM
GB	GRAB BAR
GND	GROUND
GYP	GYPSUM
GYPBD	GYPSUM BOARD
HDW	HARDWARE
HDR	HEADER
HVAC	HEATING/VENTILATING/AIR CONDITION
HT	HEIGHT
H	HIGH
HC	HOLLOW CORE
HM	HOLLOW METAL
HSS	HOLLOW STRUCTURAL SECTION
HORIZ	HORIZONTAL
HB	HOSE BIB
HR	HOUR
IN	INCH
ID	INSIDE DIAMETER
INSUL	INSULATION
INT	INTERIOR
LAB	LABORATORY
LAM	LAMINATE(D)
LAV	LAVATORY
LT	LIGHT
LTWT	LIGHT WEIGHT
L	LONG/LENGTH
LV	LOUVER VENT
MB	MACHINE BOLT
MH	MAN HOLE
	MANUFACTURER
MAS	MASONRY
MAX	MAXIMUM
MECH	MECHANICAL
	METAL
MIN	MINIMUM
MISC	MISCELLANEOUS
MTD	MOUNTED
(N)	NEW
NRC	NOISE REDUCTION COEFF.
NOM	NOMINAL
N	NORTH
NIC	NOT IN CONTRACT
NTS	NOT TO SCALE
NO/#	NUMBER
OC	ON CENTER
OPNG	OPENING
OD	OUTSIDE DIAMETER
O/	OVER
OFOI	OWNER FURNISHED OWNER INSTALLED
OFCI	OWNER FURSHINED CONTRACTOR INSTALLED
PR	PAIR
PTD	PAPER TOWEL DISPENSER
d	PENNY
PERF	PERFORATED
	PLASTER
PLYWD	PLYWOOD
PT	POINT
POC	POINT OF CONNECTION
PVC	POLYVINYL CHLORIDE
PSI	POUNDS PER SQ. INCH
PSF	POUNDS PER SQ.FT.
PREFAB	PREFABRICATED
P.T.	PRESSURE TREATED
PTDF	PRESSURE TREATED DOUG. FIR
PROJ	PROJECT
P.L.	PROPERTY LINE
RAD	RADIUS
REF	REFERENCE
REFL	REFLECTED
REFR	REFRIDGERATOR
REINF	REINFORCE(ING)
REQ	REQUIRED
RA	RETURN AIR
REV	REVISION(S)/REVISED
ROW	RIGHT OF WAY
R	RISER/RADIUS
RD	ROOF DRAIN
RM	ROOM
RO	ROUGH OPENING
RB	RUBBER BASE
SECT	SECTION
SHTG	SHEATHING
SHT	SHEET
SM	SHEET METAL
SIM	SIMILAR
SD	SOAP DISPENSER
SC	SOLID CORE
STC	SOUND TRANSMISSION COEFF.
S	SOUTH
SPEC	SPECIFICATION
SQ	SQUARE
SF	SQUARE FOOT
SS	STAINLESS STEEL
STD	STANDARD
STL	STEEL
STOR	STORAGE
STRUCT	STRUCTURE
S4S	SURFACE FOUR SIDES
SUSP	SUSPENDED
SAT	SUSPENDED ACOUSTICAL TILE
SYM	SYMBOL/SYMMETRICAL
TB	TACKBOARD
TEL	TELEPHONE
TV	TELEVISION
THK	THICK
THRES	THRESHOLD
T&G	TONGUE & GROOVE
TOB	TOP OF BEAM
TOC	TOP OF CURB/CONCRETE
TOP	TOP OF PLATE/PARAPET/PAVEMENT
TOS	TOP OF SHEATHING STEEL/SLAB
TOW	TOP OF WALK/WALL
T	TREAD
TYP	TYPICAL
UNO	UNLESS NOTED OTHERWISE
UR	URINAL
VERT	VERTICAL
VCT	VINYL COMPOSITION TILE
WSTC	WAINSCOT
WC	WATER CLOSET
WH	WATER HEATER
WP	WATER PROOFING
WR	WATER RESISTANCE
WT	WEIGHT
WWF	WELDED WIRE FABRIC
W	WEST/WIDTH/WIDE
WDW	WINDOW
W/	WITH
W/O	WITHOUT
WD	WOOD
WWM	WOVEN WIRE MESH
WI	WROUGHT IRON

ABBREVIATIONS

GENERAL NOTES
CHANGES TO THE APPROVED DRAWINGS AND SPECIFICATIONS SHALL BE MADE BY ADDENDA OR CONSTRUCTION CHANGE DOCUMENT (CCD) APPROVED BY THE OWNER, ARCHITECT, AND DSA, AS REQUIRED BY SECTION 4-338, PART 1, TITLE 24, CCR.
THE LOCATION AND STORAGE OF CONSTRUCTION MATERIALS AND THE EFFECTS ON EXISTING OCCUPIED BUILDINGS SHALL BE APPROVED BY THE COLLEGEVILLE FIRE DISTRICT.
TESTING OF MATERIALS SHALL BE CONDUCTED BY A TESTING LAB SELECTED BY THE OWNER & APPROVED BY THE ARCHITECT. THE OWNER SHALL PAY FOR TESTING OF MATERIALS.
A "DSA CERTIFIED" PROJECT INSPECTOR (CLASS 2) AND RBIP EMPLOYED BY THE DISTRICT (OWNER) AND APPROVED BY THE ARCHITECT AND DSA SHALL PROVIDE CONTINUOUS INSPECTION OF THE WORK. THE DUTIES OF THE INSPECTOR ARE DEFINED IN SECTION 4-342, PART 1, TITLE 24, CCR
A COPY OF TITLE 24 PARTS ONE THROUGH FIVE SHALL BE KEPT AVAILABLE IN THE FIELD BY THE INSPECTOR AND THE CONTRACTOR DURING CONSTRUCTION.
ALL ITEMS ARE TO BE CONSIDERED NEW UNLESS IDENTIFIED AS (E) OR EXISTING
IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VISIT THE SITE TO BECOME FAMILIAR WITH THE PROJECT AREA AND SITE CONDITIONS
THE CONTRACTOR SHALL ADVISE THE OWNER AND ARCHITECT OF THE SCHEDULE AND COORDINATE WORK AS SO TO HAVE THE LEAST POSSIBLE IMPACT ON THE OWNER'S OPERATIONS
EXISTING IMPROVEMENTS AND UTILITIES DAMAGED DURING THE COURSE OF THE WORK SHALL BE PROMPTLY REPAIRED. EXISTING IMPROVEMENTS AND UTILITIES DAMAGED, FOR WHICH LOCATIONS WERE UNKNOWN, SHALL BE IMMEDIATELY BROUGHT TO THE ARCHITECT'S ATTENTION AND PROMPTLY REPAIRED AT HIS DIRECTION. THE WORK REQUIRED TO REPAIR DAMAGED EXISTING WILL BE REVIEWED AND TAKEN UNDER CONSIDERATION AS EXTRA WORK
THE CONTRACTOR WILL VERIFY EXACT CONDITIONS AND DIMENSIONS IN THE FIELD
ADEQUATELY PROTECT ALL PERSONNEL AND THE PUBLIC FROM HARM AND ACCIDENT DURING WORK OF THIS PROJECT, BY THE ERECTION OF PROPER BARRICADES, SIGNAGE AND LIGHTING AS MAY BE NECESSARY. ADEQUATELY PROTECT ALL EXISTING BUILDINGS AND SURFACES ADJACENT TO THE WORK OF THIS PROJECT FROM DAMAGE
NO INTERFERENCE OF THE USE OF FIRE LANES OR PUBLIC EGRESS AT ANY TIME SHALL BE ALLOWED UNLESS OTHERWISE AUTHORIZED IN THESE DOCUMENTS OR IN WRITING
ALL RUBBISH AND DEBRIS SHALL BE LEGALLY DISPOSED OF OFF THE SITE BY THE CONTRACTOR THE CONTRACTOR SHALL MAINTAIN THE PREMISES FREE OF ACCUMULATED WASTE AND MATERIALS CAUSED BY CONTRACTORS, EMPLOYEES OR WORK, OR THE EMPLOYEES OR WORK OF THE SUBCONTRACTORS
NO MATERIAL OR EQUIPMENT SHALL BE LEFT ON THE PROJECT SITE OVERNIGHT UNSECURED.
THE CONTRACTOR SHALL BE HELD RESPONSIBLE FOR EXISTING CONCRETE WALKS, LANDSCAPING, IRRIGATION SYSTEMS, ETC. WHICH MAY BE DAMAGED BY THE WORK OF THIS PROJECT, IF DAMAGE OCCURS, CONTRACTOR MUST REPAIR
A DSA ACCEPTED TESTING LABORATORY DIRECTLY EMPLOYED BY THE DISTRICT (OWNER) SHALL CONDUCT ALL THE REQUIRED TESTS AND INSPECTIONS FOR THE PROJECT.
FIRE SAFETY DURING CONSTRUCTION AND DEMOLITION SHALL COMPLY WITH CFC CHAPTER 33 AND CBC CHAPTER 33.

Concrete batch plant inspection is not required for items given in CBC Section 1705A.3.3.2 subject to the requirements and limitations in that section.

GENERAL NOTES

WIND DESIGN		SEISMIC DESIGN	
EXPOSURE	C	SITE CLASS	D
BASIC WIND SPEED	95 MPH	RISK CATAGORY	II
RISK CATAGORY	II	S_S	0.714
		S_1	0.278
		SDS	0.585
		SD_1	0.379

DESIGN DATA

NONE

DEFERRED APPROVALS

ALL WORK SHALL COMPLY WITH APPLICABLE CODES AND STANDARDS

APPLICABLE CODES - EFFECTIVE JANUARY 1, 2023

TITLE 19 CCR	PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS
TITLE 24 CCR	PART 1 - 2022 BUILDING STANDARDS ADMINISTRATIVE CODE
TITLE 24 CCR	PART 2 - 2022 CALIFORNIA BUILDING CODE, VOL. 1 & 2 (CBC) (2021 IBC, AS AMENDED BY CA)
TITLE 24 CCR	PART 3 - 2022 CALIFORNIA ELECTRICAL CODE (CEC) (2020 NEC, AS AMENDED BY CA)
TITLE 24 CCR	PART 4 - 2022 CALIFORNIA MECHANICAL CODE (CMC) (2021 IAPMO UMC, AS AMENDED BY CA)
TITLE 24 CCR	PART 5 - 2022 CALIFORNIA PLUMBING CODE (CPC) (2021 IAPMO UPC, AS AMENDED BY CA)
TITLE 24 CCR	PART 6 - 2022 CALIFORNIA ENERGY CODE
TITLE 24 CCR	PART 9 - 2022 CALIFORNIA FIRE CODE (CFC) (2021 IFC, AS AMENDED BY CA)
TITLE 24 CCR	PART 11 - 2022 CALIFORNIA GREEN BUILDING STANDARDS CODE
TITLE 24 CCR	PART 12 - 2022 REFERENCED STANDARDS

APPLICABLE STANDARDS - 2022 CBC CH.35 AND 2022 CFC CH. 80

APPLICABLE CODES

CS	COVER SHEET
FGA	FIRE, GATES AND ACCESS PLAN

ARCHITECTURAL

AS1.1	OVERALL SITE PLAN

VENDOR SHEET INDEX

T001	TITLE SHEET & CAL FIRE MATERIAL CERT.
T002	T&I GUIDELINE
S1.1	GENERAL NOTES & TYPICAL DETAILS
S1.2	GENERAL NOTES & TYPICAL DETAILS
S1.3	GENERAL NOTES & TYPICAL DETAILS
HC3030-1	30'X30'X12' HIP CANOPY DRAWINGS
HC3030-2	30'X30'X12' HIP CANOPY DRAWINGS
HC3030-3	30'X30'X12' HIP CANOPY DRAWINGS

SHEET INDEX

11 SHEETS TOTAL

CLIENT

ESCALON UNIFIED SCHOOL DISTRICT
JOHN LIAL, DIRECTOR OF M.O.T.
1528 YOSEMITE AVE
ESCALON, CA. 95320
PH: (209) 838 3165

ARCHITECT

TIMOTHY P. HUFF & ASSOCIATES, INC.
DBA: TPH ARCHITECTS
TIMOTHY P. HUFF, AIA, PRINCIPAL ARCHITECT
519 McHENRY AVENUE
MODESTO, CALIFORNIA 95354
PH: (209) 571 2232
FAX: (209) 571 1936

PROJECT TEAM

BUILDING VENDOR: PARK PLANET
(2)20'x25' SHADE STRUCTURE: PC #04-123036

THESE DRAWINGS AND OR SPECIFICATIONS AND CALCULATIONS FOR THE ITEMS LISTED BELOW HAVE BEEN PREPARED BY OTHER DESIGN PROFESSIONALS OR CONSULTANTS WHO ARE LICENSED AND OR APPROPRIATE REQUIREMENTS OF TITLE 24, CALIFORNIA CODE OF REGULATIONS AND THE PROJECT SPECIFICATIONS PREPARED BY ME.
THE ITEMS LISTED BELOW ARE ACCEPTABLE FOR INCORPORATION INTO THE CONSTRUCTION OF THIS PROJECT FOR WHICH I AM THE INDIVIDUAL DESIGNATED TO BE IN GENERAL RESPONSIBLE CHARGE OR WHICH I HAVE BEEN DELEGATED RESPONSIBILITY FOR THIS PORTION OF THE WORK

VENDOR SHEET INDEX

T001	TITLE SHEET & CAL FIRE MATERIAL CERT.
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HC3030-3	30'X30'X12' HIP CANOPY DRAWINGS

8/14/24
SIGNATURE OF ARCHITECT

C 15527
LICENSE NUMBER

05/25
EXPIRATION DATE

DESIGN RESPONSIBILITY

SCOPE OF WORK

THE SCOPE OF WORK SHALL INCLUDE THE PREPARATION OF THE SITE TO RECEIVE(2) 20'x25' SHADE STRUCTURE TO BE CONSTRUCTED, DELIVERED AND INSTALLED BY THE VENDOR. ALL ASSOCIATED SITE WORK REQUIRED AND SHOWN ON THESE DRAWINGS SHALL ALSO BE INCLUDED.

SITE WORK, WHICH IS TO BE COMPLETED BY THE GENERAL CONTRACTOR PRIOR TO DELIVERY, IS TO INCLUDE CLEARING OF THE PROJECT AREA, ASPHALT PAD AND OTHER RELATED PREPARATIONS.

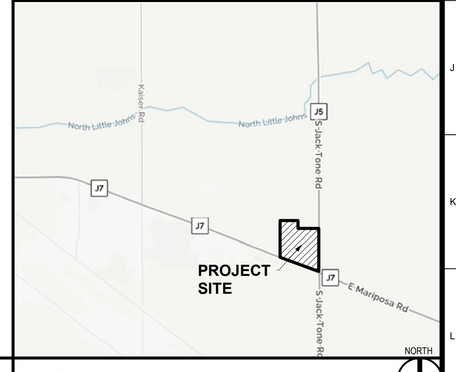
THE SHADE STRUCTURE SHALL BE INSTALLED BY THE VENDOR AFTER SITE PREPARATIONS ARE MADE BY THE GENERAL CONTRACTOR. PREPARATIONS ARE TO INCLUDE: ASPHALT, COMPACTION AND REMOVAL OF ALL SPOILS FROM THE SITE.

THE GENERAL CONTRACTOR IS RESPONSIBLE FOR REMOVAL OF ANY CHAIN LINK FENCING NECESSARY FOR BUILDING DELIVERY. UPON DELIVERY THE FENCING IS TO BE REINSTALLED TO ORIGINAL CONDITION.

SCOPE OF WORK

00.00 KEYNOTES
A WINDOW TAG
101 DOOR TAG
100 CASEWORK TAG - INDICATES WI DESIGN SERIES
ELEVATION HEIGHT / ELEVATION NAME / ELEVATION LOCATION — ELEVATION MARKER
Room name / 101 — ROOM TAG
DETAIL NUMBER / SHEET LOCATION — 1 / A101 — DETAIL CALLOUT
SECTION NUMBER / SHEET LOCATION — 1 / A101 — BUILDING SECTION CUT
NORTH — NORTH ARROW
SHEET LOCATION / ELEVATION NUMBER — 4 A01.1 2 / 3 — INTERIOR ELEVATION TAG

SYMBOLS LEGEND



VICINITY MAP

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-122820 INC: A
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 8/21/2024

TPH architects
TIMOTHY P. HUFF & ASSOCIATES, INC.
Timothy P. Huff, AIA Architect
519 McHenry Ave., Modesto, CA 95354
Ph: (209) 571-2232 Fax: (209) 571-1936
LICENSED ARCHITECT TIMOTHY PAUL HUFF No. C 15527 REN. 5/25 STATE OF CALIFORNIA

Consultants

(2) 20' x 25' SHADE STRUCTURES
COLLEGEVILLE ELEMENTARY SCHOOL
6701 S. JACK TONE ROAD
STOCKTON, CA 95215
ESCALON UNIFIED SCHOOL DISTRICT

COVER SHEET

Project Number	2310
Date	JULY 2024
Drawn by	RRM
Checked by	TPH

CS

Plot Date & Time 8/13/2024 2:58:21 PM

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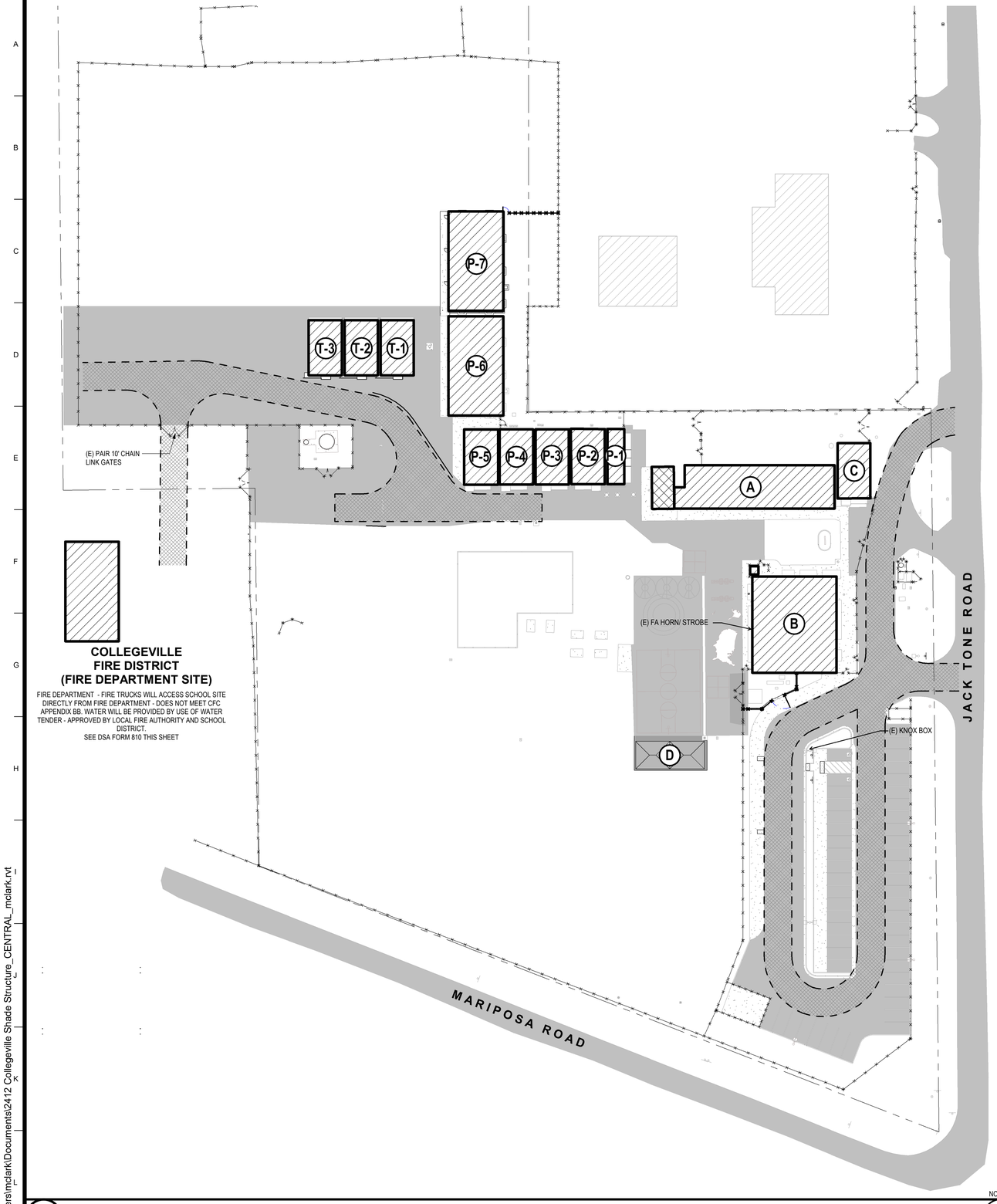


1 FIREFLOW, GATES, AND ACCESS PLAN

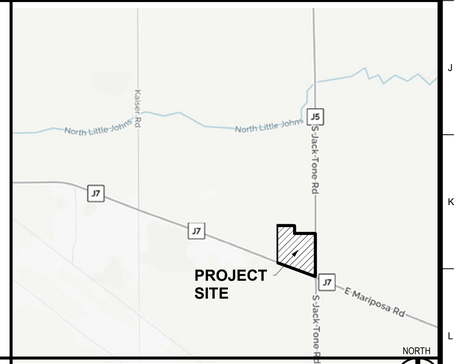
SCALE: 1" = 40'-0"

DSA INFORMATION		
Building ID	Building Description	DSA Application
A	CLASSROOMS	9612
B	MULTIPURPOSE / CAFETERIA	26786
C	ADMINISTRATION	51366
D	SHADE STRUCTURE	THIS APPLICATION
P-1	RELOCATABLE RESTROOMS	52276
P-2	RELOCATABLE CLASSROOMS	52276
P-3	RELOCATABLE CLASSROOMS	58647
P-4	RELOCATABLE CLASSROOMS	66766
P-5	RELOCATABLE CLASSROOMS	80100
P-6	RELOCATABLE CLASSROOMS	02-117297
P-7	RELOCATABLE CLASSROOMS	02-122820
T-1	TEMP RELOCATABLE CLASSROOMS	02-121556
T-2	TEMP RELOCATABLE CLASSROOMS	02-121556
T-3	TEMP RELOCATABLE CLASSROOMS	02-121556

BUILDING LEGEND

- EXISTING AC PAVING - TO REMAIN
- NEW AC PAVING 2" AC OVER 4" AGG. BASE
- EXISTING CONCRETE FLATWORK - TO REMAIN
- EXISTING BUILDING
- INDICATES EXISTING 20'-0" WIDE WIDTH WITH MIN. 25'-0" INSIDE RADIUS AND 45'-0" OUTSIDE TURNING RADIUS FOR FIRE APPARATUS ACCESS.

VICINITY MAP



DSA

810

FIRE & LIFE SAFETY SITE CONDITIONS SUBMITTAL

Division of the State Architect (DSA) documents referenced within this publication are available on the DSA Forms or DSA Publications webpages.

To facilitate the Division of the State Architect's (DSA) fire and life safety plan review of project site conditions, DSA requires the design professional to provide the following information at time of project submittal for projects consisting of construction of a new campus, construction of new building(s), additions to existing buildings, and for site alternate design means for fire department emergency vehicle access, and fire suppression water supply.

Information associated with compliance items 1 through 3 below is to be provided for all project types indicated above. Information associated with items 4 through 7 is to be completed when an alternate means is utilized. Acknowledgement by the school district and signature from the Local Fire Authority (LFA) is only required when an alternate design means is being requested.

The Project Information and Fire & Life Safety Information sections are to be completed for all projects and imaged onto the fire access site plan. When an alternate design/means is proposed, all sections on pages 1 and 2 are to be completed and imaged on the fire access site plan.

For additional information refer to the instructions at the end of this form and DSA Policy *PL 09-01: Fire Flow for Buildings*.

PROJECT INFORMATION	
School District/Owner:	ESCALON UNIFIED SCHOOL DISTRICT
Project Name/School:	COLLEGEVILLE ELEMENTARY SCHOOL
Project Address:	6754 S. JACK TONE ROAD, STOCKTON, CA. 95215

FIRE & LIFE SAFETY INFORMATION				
1.	Has a fire hydrant flow test been performed within the past 12 months? *(If yes, provide a copy of the test data.)*	Yes ☐		No ☑
2.	Was the fire hydrant water flow test performed as part of this LFA review?	Yes ☐		No ☑
3.	Is the project located within a designated fire hazard severity zone (FHSZ) as established by Cal-Fire? *(If yes, indicate FHSZ classification below.)*	Yes ☐		No ☑
	Refer to the following website for FHSZ locations: http://egis.fire.ca.gov/FHSZ/	Moderate ☐	High ☐	Very High ☐
	Wildland Interface Area (WIFA) *(If any designations are checked, project design must meet the requirements of CBC Chapter 7A.)*			WIFA ☐

FIRE & LIFE SAFETY SITE CONDITIONS SUBMITTAL

CONDITION MEANS AND METHODS RESOLUTION		ALTERNATE ACCEPTED			
		Yes	No	N/A	N/R
4.	Emergency vehicle access roadways do not meet CFC requirements.			X	
4a.	**Acceptable Alternate:** Emergency vehicle and personnel access as proposed by the project architect is acceptable for providing fire suppression and protection of life and property.				
5.	**Fire Hydrants:** Number and spacing does not meet CFC requirements.			X	
5a.	**Acceptable Alternate:** Number of fire hydrants and spacing as proposed by the project architect is acceptable for fire suppression and protection of life and property.				
6.	**Fire Hydrants:** Water flow and pressure are less than CFC minimum.			X	
6a.	**Acceptable Alternate:** The available flow and pressure is acceptable for providing fire suppression and protection of life and property.				
7.	Location of fire department connection(s) serving fire sprinkler systems or standpipe systems does not meet CFC requirements.			X	
7a.	**Acceptable Alternate:** The location of fire department connection serving the fire sprinkler system and/or standpipe system is acceptable for providing fire suppression and protection of life and property.				

School District Acceptance of Acceptable Design Alternates

By signing this form, the school district acknowledges and accepts the proposed design as an alternative to California Building Code (CBC) and California Fire Code (CFC) minimum requirements, as indicated by one or more of the conditions indicated at items 4a, 5a, 6a or 7a, for providing fire and life safety protection of life and property.

Accepted by: _____ Title: _____

Signature: _____ Date: _____

LOCAL FIRE AUTHORITY (LFA) INFORMATION	
LFA Agency Name:	COLLEGEVILLE FIRE DISTRICT
LFA Review Official:	
Title:	Work Phone:
Work Email:	

LFA Reviewer's Signature: _____ Date: _____

LOCAL FIRE AUTHORITY REVIEW

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-122820 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 8/21/2024

TPH architects
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LICENSED ARCHITECT TIMOTHY PAUL HUFF No. C 15627 REN. 5/25 STATE OF CALIFORNIA

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(2) 20' x 25' SHADE STRUCTURES COLLEGEVILLE ELEMENTARY SCHOOL

6701 S. JACK TONE ROAD
STOCKTON, CA 95215
ESCALON UNIFIED SCHOOL DISTRICT

FIRE, GATES AND ACCESS PLAN

Project Number	2310
Date	JULY 2024
Drawn by	RRM
Checked by	TPH

FGA

Plot Date & Time 8/13/2024 2:58:23 PM

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(ACS) ACCESS COMPLIANCE

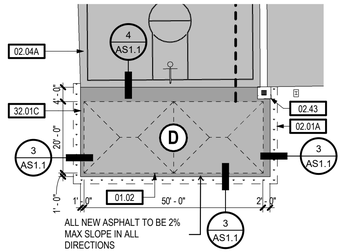
THE **PATH OF TRAVEL (P.O.T.)** IS A COMMON BARRIER FREE ACCESS ROUTE AT LEAST 48" WIDE WITHOUT ANY ABRUPT VERTICAL CHANGES EXCEEDING 1/2" BEVELED AT 1:2 MAXIMUM SLOPE, EXCEPT THAT LEVEL CHANGES DO NOT EXCEED 1/4" VERTICAL. THE P.O.T. IS SLIP RESISTANT, STABLE, FIRM AND SMOOTH. PASSING SPACES (11B-403.5.3) AT LEAST 60"X60" ARE LOCATED NOT MORE THAN 200' APART. PARTS OF P.O.T. WITH CONTINUOUS GRADIENTS HAVE 60" LEVEL AREAS (11B-403.7) NOT MORE THAN 400' APART. THE CROSS-SLOPE DOES NOT EXCEED 2% AND SLOPE IN THE DIRECTION OF TRAVEL IS LESS THAN 5% UNLESS OTHERWISE INDICATED. (P.O.T.) SHALL BE MAINTAINED FREE OF OVERHANGING OBSTRUCTION TO 80" MINIMUN (11B-307.4) & PROTRUDING OBJECTS GREATER THAN 4" PROJECTION FROM WALL AND ABOVE 27" AND LESS THAN 80" (11B-307.2). GRID OPENINGS OF GRATINGS IN THE P.O.T. SHALL NOT EXCEED 1/2" IN THE DIRECTION OF TRAFFIC FLOW.

DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE STATEMENT: THE POT IDENTIFIED IN THESE CONSTRUCTION DOCUMENTS IS COMPLIANT WITH THE CURRENT APPLICABLE CALIFORNIA BUILDING CODE ACCESSIBILITY PROVISION FOR **PATH OF TRAVEL REQUIREMENTS FOR ALTERATIONS, ADDITIONS AND STRUCTURAL REPAIRS**. AS PART OF THE DESIGN OF THE IS PROJECT, THE POT WAS EXAMINED AND ANY ELEMENTS, COMPONENTS OR PORTIONS OF THE POT THAT WERE DETERMINED TO BE NONCOMPLIANT 1) HAVE BEEN INDENTIFIED AND 2) THE CORRECTIVE WORK NECESSARY TO BRING THEM INTO COMPLIANCE HAS BEEN INCLUDED WITHIN THE SCOPE OF THIS PROJECT'S WORK THROUGH DETAILS, DRAWINGS AND SPECIFICATIONS INCORPORATED INTO THESE CONSTRUCTION DOCUMENTS. ANY NONCOMPLIANT ELEMENTS, COMPONENTS OR PORTION OF THE POT THAT WILL NOT BE CORRECTED BY THIS PROJECT BASED ON VALUATION THRESHOLD LIMITATION OR FINDING OF UNREASONABLE HARDSHIP ARE SO INDICATED IN THESE CONSTRUCTION DOCUMENTS.

DURING CONSTRUCTION, IF POT ITEMS WITHIN THE SCOPE OF THE PROJECT REPRESENTED AS CODE COMPLIANT ARE FOUND TO BE NONCONFORMING BEYOND REASONABLE CONSTRUCTION TOLERANCES, THEY SHALL BE BROUGHT INTO COMPLIANCE WITH THE CBC AS PART OF THIS PROJECT BY MEANS OF A CONSTRUCTION CHANGE DOCUMENT.

ACCESSIBLE PATH OF TRAVEL

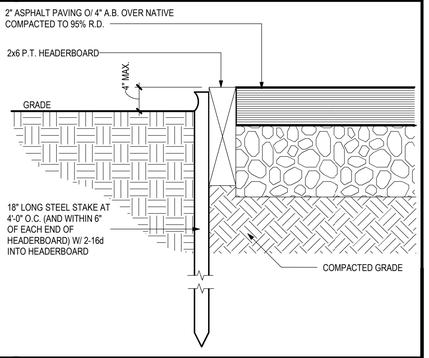
CONTRACTOR SHALL COORDINATE SHADE STRUCTURE WITH VENDOR. SHADE STRUCTURE SHALL BE INSTALLED PRIOR TO ASPHALT TO PROVIDE A CLEAN FINISH.



NORTH

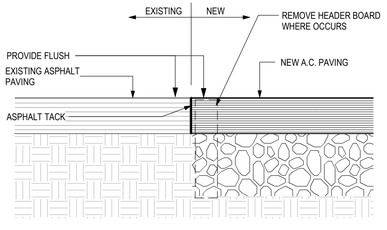
2 ENLARGED SITE PLAN

SCALE: 1" = 20'-0"



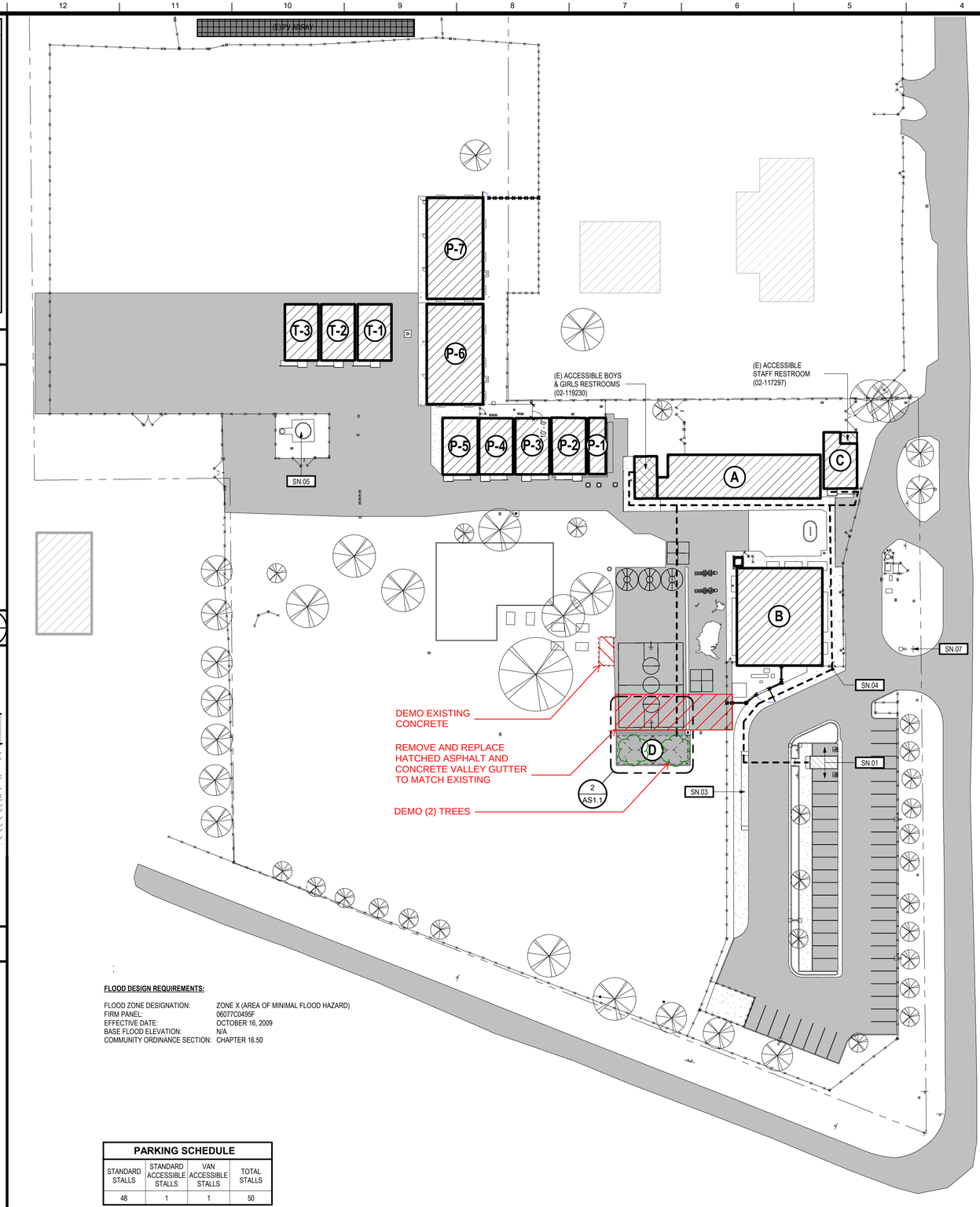
3 AC - HEADERBOARD

SCALE: 3" = 1'-0"



4 (N)TO (E) AC PAVING

SCALE: 3" = 1'-0"



FLOOD DESIGN REQUIREMENTS:

FLOOD ZONE DESIGNATION:	ZONE X (AREA OF MINIMAL FLOOD HAZARD)
FIRM PANEL:	06077C0495F
EFFECTIVE DATE:	OCTOBER 16, 2009
BASE FLOOD ELEVATION:	N/A
COMMUNITY ORDINANCE SECTION:	CHAPTER 16.50

PARKING SCHEDULE

STANDARD STALLS	STANDARD ACCESSIBLE STALLS	VAN ACCESSIBLE STALLS	TOTAL STALLS
48	1	1	50

NORTH

1 OVERALL SITE PLAN

SCALE: 1" = 40'-0"

DSA INFORMATION

Building ID	Building Description	DSA Application
A	CLASSROOMS	9612
B	MULTIPURPOSE / CAFETERIA	26786
C	ADMINISTRATION	51366
D	SHADE STRUCTURE	THIS APPLICATION
P-1	RELOCATABLE RESTROOMS	52276
P-2	RELOCATABLE CLASSROOMS	52276
P-3	RELOCATABLE CLASSROOMS	58647
P-4	RELOCATABLE CLASSROOMS	66766
P-5	RELOCATABLE CLASSROOMS	80100
P-6	RELOCATABLE CLASSROOMS	02-117297
P-7	RELOCATABLE CLASSROOMS	02-122820
T-1	TEMP RELOCATABLE CLASSROOMS	02-121556
T-2	TEMP RELOCATABLE CLASSROOMS	02-121556
T-3	TEMP RELOCATABLE CLASSROOMS	02-121556

DSA INFORMATION

KEYNOTES

01.02	SHADE STRUCTURE - SEE VENDOR DRAWINGS
02.01A	EXISTING TURF- AREAS DAMAGED OR AFFECTED BY CONSTRUCTION ACTIVITIES SHALL BE REPAIRED BY THE CONTRACTOR. CONTRACTOR TO DEMO EXISTING SPRINKLERS AND REROUTE AS REQUIRED DUE TO NEW WORK. CONTRATOR TO PROVIDE NEW PROPOSED SPRINKLER LAYOUT FOR REVIEW PRIOR TO INSTALLATION. ADJUST EXISTING SPRINKLER HEADS AS REQUIRED TO AVOID OVERSPRAY ON NEW ASPHALT
02.04A	ASPHALT PAVING - EXISTING - TO REMAIN
02.43	(E) AREA DRAIN - EXISTING - TO REMAIN
32.01C	ASPHALT CONCRETE PAVING- 2" ASPHALT PAVING OVER 4" A.B. OVER COMPACTED NATIVE TO 95% R.D.

SHEET NOTES

SN.01	ACCESSIBLE PARKING - EXISTING - TO REMAIN (02-118932)
SN.03	ACCESSIBLE DROP-OFF - EXISTING- TO REMAIN (02-118932)
SN.04	ACCESSIBLE GATE (4'-0" WIDE) - EXISTING WITH 10" KICK PLATE - TO REMAIN
SN.05	IRRIGATION WATER TANK - EXISTING - TO REMAIN
SN.07	ACCESSIBLE ENTRY SIGN - EXISTING- TO REMAIN (02-118932)

NOTES

Building Summary:
New (2) 20'x25' SHADE STRUCTURES

Building Occupancy:
A2 Occupancy

Construction Type:
II-B (NON-SPRINKLERED)

Building Areas:

Allowable Area:	9,500 S.F.
New Building Area:	1,000 SF - OK

SHADE STRUCTURE 1,000 SF
ASSEMBLY- UNCONCENTRATED CBC TABLE 1004.5 = 15
MAXIMUM OCCUPANCY = 67

CODE ANALYSIS

EXISTING BUILDING

NEW AC PAVING

EXISTING AC PAVING

EXISTING CONCRETE FLATWORK

LEGEND

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-122820 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 8/21/2024

TPH architects
TIMOTHY P. HUFF & ASSOCIATES, INC.
Timothy P. Huff, AIA Architect
519 McHenry Ave., Modesto, CA 95354
Ph: (209) 571-2232 Fax: (209) 571-1936

LICENSED ARCHITECT TIMOTHY PAUL HUFF No. C 15627 REN. 5/25 STATE OF CALIFORNIA

Consultants

(2) 20' x 25' SHADE STRUCTURES
COLLEGEVILLE ELEMENTARY SCHOOL
6701 S. JACK TONE ROAD
STOCKTON, CA 95215
ESCALON UNIFIED SCHOOL DISTRICT

OVERALL SITE PLAN

Project Number	2310
Date	JULY 2024
Drawn by	RRM
Checked by	MC

AS1.1

Plot Date & Time 8/13/2024 2:58:21 PM

C:\Users\mclark\Documents\2412 Collegeville Shade Structure_CENTRAL_mclark.rvt

PROJECT DIRECTORY

OWNER
CUSTOM CANOPIES INC.
11815 BURKE STREET
SANTA FE SPRINGS, CA 90670
T: (562) 464-4766
F: (562) 464-4770
CONTACT: STEVE GRAAF

ARCHITECT
RON EDWARDS ARCHITECT
7400 PEDRICK CT
BAKERSFIELD, CA 93313
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CONTACT: RON EDWARDS

STRUCTURAL
JAMES L. MITCHELL
220 CHERRY LAUREL LANE
KYLE, TX 78640
T: (936) 446-9999

PRECHECK FABRIC SHADE STRUCTURE II

FOR
CUSTOM CANOPIES

COLLEGEVILLE ELEMENTARY SCHOOL (2) 20'x25' SHADE STRUCTURES

SHEET INDEX

MATERIAL SPECIFICATIONS - SEE ALSO SHEETS S1.1 & S1.2

1. MATERIAL WIRE ROPE CLIPS
   - 1.A. CABLE CLIPS SHALL BE FORGED STEEL PER FEDERAL INSPECTION FF-C-40 TYPE 1, CLASS 2 INSTALLED WITH THE U-BOLT ON THE CABLE DEAD END
   - 1.B. BOLT TORQUE FOR $\frac{1}{4}$"Ø CALBE CLIPS = 15 lb-ft, FOR $\frac{5}{16}$"Ø CABLE CLIPS = 30 lb-ft.
2. BOLT HOLES
   - 2.A. BOLT HOLE DIAMETERS SHALL BE $\frac{1}{8}$" MAX. LARGER THAN THE BOLT DIAMETER.
   - 2.B. ALL BOLTS SHALL BE INSTALLED WITH LOCK WASHERS.
3. CORROSION PROTECTION
   - 3.A. STEEL TUBE ROOF MEMBER SHALL BE TRIPLE COATED USING IN-LINE ZINC ELECTROPLATING PER ASTM E-6 AND THEN POWDER COATED WITH A TGIC POLYESTER TOP COAT.
   - 3.B. STEEL PIPE COLUMNS SHALL BE POWDER COATED WITH A TGIC POLYESTER PRIMER AND TOP COAT.
   - 3.C. ZINC SPELTER CONFORMS TO ASTM B-6 HIGH GRADE ZINC.
4. FABRIC MATERIAL
   - 4.A. FABRIC MATERIAL SHALL BE EXTRA BLOCK.
   - 4.B. THE FABRIC SHALL BE MANUFACTURED FROM HIGH DENSITY POLYETHYLENE POLYMER.
   - 4.C. MIN. WEIGHT - 8.3 oz/sq.yd
     FABRIC THICKNESS - 50.4 mil.
   - 4.D. MIN. BREAKING STRENGTH PER ASTM D 5034: WARP = 165 lbs., WEFT = 260 lbs.
   - 4.E. MAX. ELONGATION WARP = 115%, WEFT = 76%.
   - 4.F. MIN. TEAR STRENGTH PER ASTM D 2261: WARP = 26 lbs., WEFT = 26 lbs
   - 4.G. FIRE RETARDANT RATING PER CSFM - TITLE 19, (REGISTRATION #: ALNET EXTRA BLOCK SHADECLOTH - F94501)
   - 4.H. THE FABRIC SHALL BE CAPABLE OF MAINTAINING 80% OF IT'S TENSILE AND TEARING STRENGTH AFTER EXPOSURE TO A 313NM LIGHT SOURCE APPLIED FOR 500 HOURS AND WHILE MOISTENED FOR 1 HOUR EVERY 12 HOURS PER ASTM G53. THE FABRIC SHALL REQUIRE ANNUAL INSPECTION AND MAINTENANCE.
   - 4.I. THE FABRIC SHALL MAINTAIN AT LEAST 50% OF IT'S ORIGINAL BREAKING STRENGTH AFTER 5 YEARS OF EXPOSURE TO SUNLIGHT.
5. STANDARD NOTES
   - 5.A. ALL WORK SHALL CONFORM TO 2022 EDITION TITLE 24, CALIFORNIA CODE OF REGULATION (CCR)
   - 5.B. CHANGES TO THE APPROVED DRAWINGS AND SPECIFICATIONS SHALL BE MADE BY ADDENDA OR CONSTRUCTION CHANGE DOCUMENT (CCD) APPROVED BY DSA, AS REQUIRED BY SECTION 4-338, PART 1, TITLE 24 (CCR)
   - 5.C. A "DSA CERTIFIED" PROJECT INSPECTOR EMPLOYED BY THE DISTRICT (OWNER) AND APPROVED BY DSA SHALL PROVIDE (CCR). MINIMUM CLASS 2 PROJECT INSPECTOR FOR THE PROJECT.
   - 5.D. A DSA ACCEPTED TESTING LABORATORY DIRECTLY EMPLOYED BY THE DISTRICT (OWNER) SHALL CONDUCT ALL THE REQUIRED TEST AND INSPECTIONS FOR THE PROJECT.
   - 5.E. THE INTENT OF THESE DRAWINGS AND SPECIFICATIONS IS THAT THE WORK OF THE ALTERATION, REHABILITATION OR RECONSTRUCTION IS TO BE IN ACCORDANCE WITH TITLE 24, CCR. SHOULD ANY EXISTING CONDITIONS SUCH AS DETERIORATION OR NON-COMPLYING CONSTRUCTION BE DISCOVERED WHICH IS NOT COVERED BY THE CONTRACT DOCUMENTS WHEREIN THE FINISHED WORK WILL NOT COMPLY WITH THE TITLE24, CCR, A CONSTRUCTION CHANGE DOCUMENT (CCD) OR A SEPARATE SET OF PLANS AND SPECIFICATIONS, DETAILING AND SPECIFYING THE REQUIRED WORK SHALL BE SUBMITTED TO AND APPROVED BY DSA.
   - 5.F. GRADING PLANS, DRAINAGE IMPROVEMENTS, ROAD AND REQUIREMENTS AND ENVIROMENTAL HEALTH CONSIDERATIONS SHALL COMPLY WITH ALL LOCAL ORDINANCES.

APPLICABLE CODES

2022 California Administrative Code (CAC), Part 1, Title 24 CCR2022 California Building Code (CBC), Part 2, Title 24 CCR 2022 California Electrical Code (CEC), Part 3, Title 24 CCR
2022 California Mechanical Code (CMC), Part 4, Title 24 CCR2022 California Plumbing Code (CPC), Part 5, Title 24 CCR
2022 California Energy Code, Part 6, Title 24 CCR 2022 California Fire Code (CFC), Part 9, Title 24 CCR
2022 California Existing Building Code (CEBC), Part 10, Title 24 CCR
2022 California Green Building Standards Code (CALGreen), Part 11, Title 24 CCR
2022 California Referenced Standards Code, Part 12, Title 24 CCR
Title 19 CCR, 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.

GENERAL NOTES

1. FIRE SAFETY DURING DEMOLITION AND CONSTRUCTION SHALL COMPLY WITH CFC CHAPTER 33 AND CBC CHAPTER 33.

FLAME RETARDANT

Fabric Registration

LICENSE NUMBER: F-094501

EXTRA BLOCK SHADECLOTH

Product Marketed by:

ALNET PTY (LTD)
MOORSOM AVENUE, EPPING, INDUSTRY II
CAPE TOWN, S. AFRICA, ,

Issue Date : 03/25/2024
Expiration Date : 06/30/2025

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

Page 1 of 1

DESIGN PARAMETER CHECKLIST FOR OTC REVIEW

THE FOLLOWING CHECKLIST IS INTENDED TO ASSIST THE PLAN REVIEWER TO DETERMINE IF THIS PRE-CHECKED SUBMITTAL IS APPLICABLE TO THE SITE SPECIFIC CONDITIONS IN WHICH IT IS INTENDED TO BE USED. IT IS THE SITE APPROVAL ARCHITECT'S RESPONSIBILITY TO FILL IN THE APPROPRIATE BOXES AND CONFIRM SITE CONDITIONS. IF THIS CHECKLIST CANNOT BE COMPLETED, ADDITIONAL ENGINEERING PROVING SITE-SPECIFIC COMPLIANCE IS REQUIRED.

THIS PRE-CHECKED SUBMITTAL IS APPLICABLE UNDER THE FOLLOWING CIRCUMSTANCES:

- [M] NONE OF THE STRUCTURAL DESIGN CRITERIA ARE EXCEEDED
- [M] THE RISK CATEGORY IS 'II' OR LESS
- [M] THE WIND EXPOSURE CATEGORY IS 'C'
- [M] THE PROJECT SITE BASIC ULTIMATE WIND SPEED IS <100mph
- [M] THE PROJECT SITE CLASS CATEGORY IS 'D'
- [ ] THE PROJECT SEISMIC DESIGN CATEGORY IS 'E'
- [M] THE PROJECT SEISMIC SDS IS MAXIMUM 2.40
- [M] THE PROJECT SITE IS NOT IN A FLOOD ZONE OTHER THAN ZONE 'X'. IF SO, THEN A GEOTECHNICAL LETTER IS REQUIRED PER IR PC-4 1.7.2.
- [M] THE PROJECT SITE IS NOT IN AN AREA WITH SNOW LOADING EXCEEDING 5 PSF.
- [ ] THE PROJECT IS DESIGNED FOR VERY HIGH FIRE HAZARD SEVERITY ZONE (AREAS PER CBC CHAPTER 7A.
- [M] THE ALLOWABLE SOIL BEARING PRESSURE IS 1500psf OR GREATER
- [M] IF THE CANOPY SIZE IS <1600s.f. IN AREA, NO GEOTECHNICAL/GEOHAZARDS REPORT IS REQUIRED.
- [ ] IF THE CANOPY SIZE IS >1600s.f. AND <4000s.f. AND THERE IS A GEOTECHNICAL REPORT PROVING THAT NO POTENTIAL FOR LIQUIFICATION EXISTS, NO GEOHAZARDS REPORT IS REQUIRED.
- [ ] IF THE CANOPY SIZE IS >4000s.f., A SITE SPECIFIC GEOTECHNICAL/GEOHAZARD REPORT IS REQUIRED GEOTECHNICAL/GEOHAZARD REPORT REQUIRED IN MAPPED GEOLOGIC HAZARD ZONES AND AS REQUIRED BY IR A-4.
- [M] THE CANOPY SIZE PROVIDES THE MAXIMUM REQUIRED AREA FOR SELECTED ASSEMBLY USE AND DESIRED OCCUPANCY LOAD (SEE ASSEMBLY USE CHECKLIST)
- [M] THE PROJECT IS NOT INTENDED TO PROVIDE SOLAR PANELS
- [M] THE PROJECT DOES NOT INCLUDE FIRE SPRINKLERS.

ASSEMBLY USE SELECTION CHECKLIST

THE FOLLOWING CHECKLIST IS TO BE USED BY THE PARTY SUBMITTING THIS PRE-CHECK TO INDICATE THE INTENDED ASSEMBLY USE FOR THIS STRUCTURE.

- [M] DINING CANOPY - ASSEMBLY USE - 'A2'
- [ ] SHADE STRUCTURE - ASSEMBLY USE - 'A'
- [ ] SHADE STRUCTURE - OUTDOOR INSTRUCTIONAL USE - ASSEMBLY USE - 'E'
- [ ] SHADE STRUCTURE OVER PLAY EQUIPMENT - ASSEMBLY USE - 'E'
- [ ] SHADE STRUCTURE OVER PARKING - ASSEMBLY USE - 'S2' OR 'U'

SITE-SPECIFIC CODE ANALYSIS

THE SECTION IS TO BE FILLED OUT BY THE ARCHITECT OF RECORD FOR THE SITE-SPECIFIC APPROVAL

- [M] OCCUPANCY GROUP: A2 (SEE USE CHECKLIST) OCCUPANCY LOAD FACTOR: 15
- [M] OCCUPANCY LOAD: 67
- [M] TYPE OF CONSTRUCTION: II-B
- [M] PROPOSED AREA: 1,000 SF
- [M] ALLOWABLE AREA: 9,500 SF

CANOPY SIZE SELECTION CHECKLIST

THE FOLLOWING CHECKLIST IS TO BE USED BY THE PARTY SUBMITTING THIS PRE-CHECK TO INDICATE THE INTENDED SIZES USED FOR THIS PRE-CHECK STRUCTURE. SITE SPECIFIC AOR TO SPECIFY IF CONJOINED OR NON-CONJOINED COLUMNS PER SHEET S2.0.

- [ ] 20'X20' [ ] _____'X_____' (FOR INTERMEDIATE SIZE)
- [ ] 30'X30' [M] 20 'X 25 ' (FOR INTERMEDIATE SIZE) (2) CONJOINED
- [ ] 40'X30' [ ] _____'X_____' (FOR INTERMEDIATE SIZE)

NOTES:
1. PLAN DIMENSIONS ARE REPEATABLE IN ANY ONE DIRECTION TO A TOTAL AREA OF 4000 SQ.FT. STRUCTURALLY. MAXIMUM SIZES MAY BE LESS DUE TO RISK CATEGORY THRESHOLDS. SEE TABLE 1604.5, 2022 CBC.
2. INTERMEDIATE SIZES MAY USE THE MEMBER SIZES, CONNECTIONS, AND FOUNDATIONS OF THE NEXT LARGEST CANOPY PROVIDED NO SINGLE PLAN DIMENSION, LENGTH OR WIDTH VARIES BY MORE THAN 35%. ADDITIONALLY, THE EVE AND RIDGE HEIGHTS OF THE LARGER CANOPY IS NOT EXCEEDED.

COLUMN HEIGHTS:
- [ ] 9' COLUMN HEIGHT [M] 10' COLUMN HEIGHT [ ] 11' COLUMN HEIGHT [ ] 12' COLUMN HEIGHT
- [ ] 14'/16' COLUMN HEIGHT(HYPAR & TRIANGULAR SHADES)

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-122820 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 8/21/2024

rea architect RONEDWARDS
Architecture
7400 Pedrick Court
Bakersfield, CA 93313
(661) 394-0053
ron@rearchitect.net

LICENSED ARCHITECT RONALD W. EDWARDS C-25192 Exp. 08/31/25 STATE OF CALIFORNIA

MANUFACTURER:

CUSTOM CANOPIES INC.
11815 BURKE STREET

IDENTIFICATION STAMP DIVISION OF THE STATE ARCHITECT
PRE-CHECK PC DOCUMENT
CODE: 2022 CBC
A separate application for construction is required

PC APPROVAL STAMP:

~~IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT~~
~~APP: 04-122036 PC~~
~~REVIEWED FOR~~
~~SS ☑ FLS ☑ ACS ☑ CG ☐~~
~~DATE: 04/12/2024~~

PRECHECK FABRIC SHADE STRUCTURE II

TITLE SHEET

Project # 22-037
Drawn By RWE
Date 1-10-24

T001

DSA 103-22: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS, 2022 CBC

DSA 103-22: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS (SOILS), 2022 CBC

DSA 103-22: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS (SOILS), 2022 CBC

DSA 103-22: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS (SOILS), 2022 CBC

DSA 103-22: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS (CONCRETE), 2022 CBC

DSA 103-22: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS (CONCRETE), 2022 CBC

DSA 103-22: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS (CONCRETE), 2022 CBC

DSA 103-22: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS (STEEL AND ALUMINUM), 2022 CBC

DSA 103-22: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS (STEEL AND ALUMINUM), 2022 CBC

DSA 103-22: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS (STEEL AND ALUMINUM), 2022 CBC

DSA 103-22: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS (STEEL AND ALUMINUM), 2022 CBC

DSA 103-22: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS (STEEL AND ALUMINUM), 2022 CBC

DSA 103-22: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS (STEEL AND ALUMINUM), 2022 CBC

Appendix: Work Exempt from DSA Requirements for Structural Tests / Special Inspections

DSA 103-22: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS(SIGNATURE), 2022 CBC

DSA STAMP

DSA 103-22: LIST OF REQUIRED VERIFIED REPORTS, CBC 2022

1. Structural Testing and Inspection: Laboratory Verified Report Form DSA 291

2. Shop Welding Inspection: Laboratory Verified Report Form DSA 291, or, for Independently contracting SI, Special Inspection Verified Report Form DSA 292

NOTES

1. THE EXAMPLE FORM DSA-103(s) SHOWN ON THIS SHEET ARE FOR ILLUSTRATION PURPOSES ONLY. A FORM DSA-103 IS TO BE FOR EACH APPLICATION THAT THIS PC IS BEING INCORPORATED INTO AND ALL EXAMPLE DSA-103(s) ARE TO BE CROSSED OUT ON THIS DRAWING.

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-122820 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 8/21/2024

rea architect
RON EDWARDS

Architecture
7400 Pedrick Court
Bakersfield, CA 93313
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LICENSED ARCHITECT
RONALD W. EDWARDS
C 25192
REN 12-31-25
STATE OF CALIFORNIA

MANUFACTURER:

CUSTOM CANOPIES INC.
11815 BURKE STREET

IDENTIFICATION STAMP DIVISION OF THE STATE ARCHITECT

PRE-CHECK PC DOCUMENT
CODE: 2022 CBC
A separate application for construction is required

PC APPROVAL STAMP:

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 04-123036 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☐
DATE: 04/12/2024

PRECHECK FABRIC SHADE STRUCTURE II

T&I GUIDELINE

Project # 22-037
Drawn By RWE
Date 1-10-24

T002

CONCRETE:

1. ALL CONCRETE WORK SHALL CONFORM TO ALL REQUIREMENTS OF THE 2022 C.B.C. AND THE A.C.I. 319-14 "SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS".
2. SLAB AND FOUNDATION CONCRETE SHALL BE 150 P.C.F. HARDROCK, MIXED PER A.S.T.M. C-94, AND SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 4,500 P.S.I. AT 28 DAY. MAX. SLUMP TO BE 4" ± 1" OF W/C RATIO < .45
3. THE MAXIMUM SIZE AGGREGATE IN FOUNDATION AND MASS CONCRETE WORK SHALL BE 1 INCH.
4. CEMENT SHALL CONFORM TO A.S.T.M., C-150 TYPE V, LOW ALKALI. AGGREGATES FOR NORMAL WEIGHT SHALL CONFORM TO A.S.T.M. C-33.
5. ADMIXTURES AND COLORS (EXCEPT AS NOTED HEREIN) SHALL NOT BE USED UNLESS SUBSTANTIATING DATE IS SUBMITTED TO AND ACCEPTED BY THE ENGINEER AND ARCHITECT OF RECORD AND DSA.
6. CONCRETE MIXES SHALL BE DESIGNED BY A QUALIFIED TESTING LABORATORY. THE MIX DESIGNS SHALL CONFORM TO ACI 318-19 SECTION 26.4.3. UNLESS NOTED OTHERWISE.
7. NON-STRUCTURAL STEEL EMBEDDED IN CONCRETE SHALL BE GALVANIZED OR PAINTED. ALL DAMAGED GALVANIZED AREAS SHALL BE REPAIRED PRIOR TO EMBEDMENT.
8. READY MIXED CONCRETE SHALL CONFORM TO (A.S.T.M. C-94).
9. PLACEMENT OF CONCRETE SHALL CONFORM THE 2022 C.B.C. AND THE TO A.C.I. 304. CLEAN AND ROUGHEN A FULL AMPLITUDE OF $\frac{1}{4}$" BY REMOVING THE ENTIRE SURFACE AND EXPOSING CLEAN AGGREGATE SOLIDLY EMBEDDED IN THE MORTAR MATRIX AGAINST ALL CONCRETE SURFACES AGAINST WHICH CONCRETE IS TO BE POURED.
10. ALL EXPOSED CONCRETE SHALL HAVE A SMOOTH FORM FINISH USING B-B PLYFORM, CLASS I, EXT-A.P.A. PLYWOOD.
11. ALL SLABS SHALL HAVE A TROWELED FINISH EXCEPT AS NOTED ON THE DRAWINGS.
12. ALL REINFORCING STEEL, ANCHOR BOLTS, DOWELS AND INSERTS SHALL BE WELL SECURED IN POSITION PRIOR TO PLACING CONCRETE.
13. IF THE CONTRACTOR DESIRES TO MAKE ANY CONSTRUCTION JOINTS OTHER THAN THOSE SHOWN ON THESE DRAWINGS, HE SHALL SUBMIT DETAILS OF CHANGES TO THE ENGINEER OF RECORD FOR REVIEW BEFORE STARTING WORK AND THE ENGINEER OF RECORD TO OBTAIN DSA APPROVAL PRIOR TO STARTING WORK.
14. NO BRICK OR POROUS MATERIAL SHALL BE USED TO SUPPORT FOUNDATION STEEL OF THE GROUND.
15. PROVIDE $\frac{3}{4}$ INCH CHAMFER ON ALL EXPOSED CONCRETE CORNERS, U.N.O.
16. MINIMUM CONCRETE COVERAGES

    FOOTINGS CAST AGAINST EARTH — 3"
    FORMED CONCRETE EXPOSED TO EARTH OR WEATHER — 2"
17. CONCRETE CURING:
    SLAB AND FDN; TYPICALLY REQUIRED FOR 10 DAYS TO ACHIEVE A MINIMUM OF 3000 PSI STRENGTH PRIOR TO INSTALLATION OF OTHER MAJOR STRUCTURAL COMPONENTS.

FOUNDATION:

1. THIS P.C. IS DESIGN TO THE C.B.C. MINIMUM. WHERE SOIL REPORT IS AVAILABLE; ATTACH ONE COPY OF SOILS REPORT TO THE APPROVED SET OF CONSTRUCTION DOCUMENTS. SOILS REPORT SHALL BE PART OF THESE NOTES. PRIOR TO THE POURING OF CONCRETE AND PRIOR TO THE CONTRACTOR REQUESTING A DSA FOUNDATION INSPECTION, THE GEOTECHNICAL ENGINEER SHALL INSPECT AND APPROVE THE FOOTING EXCAVATIONS. HE SHALL POST NOTICE ON THE JOB SITE AND ADVISE THE DSA INSPECTOR IN WRITING THAT THE WORK SO INSPECTED MEETS THE CONDITIONS OF THE REPORT. A WRITTEN CERIFICATION TO VERIFY THAT:
   A. THE BUILDING PAD WAS PREPARED IN ACCORDANCE WITH THE SOIL REPORT.
   B. THE UTILITY TRENCHES HAVE BEEN PROPERLY BACKFILLED AND COMPACTED, AND
   C. THE FOUNDATION EXCAVATIONS COMPLY WITH THE INTENT OF THE SOILS REPORT.
2. SOIL REMOVAL AND RECOMPACTION SHALL BE DONE PER SOILS REPORT RECOMMENDATIONS UNDER GEOTECHNICAL ENGINEERS'S SUPERVISION AND INSPECTION.
3. TYPE OF FOOTING:
   A. DESIGN SOIL PRESSURE:

FOOTING TYPE	STATIC BEARING PRESSURE
DEEP FOOTING	1,500 psf
LATERAL BEARING	100 pcf*

   *MAY BE DOUBLED PER SECTION 1806A.3.4
4. ALL ABANDONED FOOTINGS, UTILITIES, ETC., THAT INTERFERE WITH NEW CONSTRUCTION SHALL BE REMOVED.
5. THE CONTRACTOR SHALL DETERMINE LOCATION OF UTILITY SERVICES IN AREAS TO BE EXCAVATED BEFORE BEGINNING EXCAVATION. EXERCISE EXTREME CAUTION IN EXCAVATING AND TRENCHING. DAMAGE CAUSED AS A RESULT OF FAILING TO EXACTLY LOCATE AND PRESERVE ALL EXISTING UNDERGROUND UTILITIES IS THE RESPONSIBILITY OF THE CONTRACTOR.
6. THE CONTRACTOR SHALL PROVIDE FOR THE DESIGN, APPROVALS, PERMITS, INSTALLATION AND MONITORING OF ALL CRIBBING, SHEATHING AND SHORING REQUIRED TO SAFELY RETAIN TEMPORARY EXCAVATIONS.
7. ALL PLANTERS IN CLOSE PROXIMITY TO THE STRUCTURE SHALL HAVE ADEQUATE DRAINAGE OF SURFACE WATER TO PREVENT SATURATION OF SOIL UNDER FOUNDATION.
8. 2022 C.B.C. SEISMIC SITE CLASS A, B, C, D, + D-DEFAULT

GENERAL NOTES:

1. THE PROJECT SPECIFICATIONS SHALL BE PART OF THE CONTRACT DOCUMENTS.
2. THE STRUCTURAL DRAWINGS ARE TO BE USED IN CONJUNCTION WITH ARCHITECTURAL DRAWINGS.
3. THE CONTRACTOR SHALL REVIEW EXISTING CONDITIONS ON THE SITE DURING THE BIDDING. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS PRIOR TO STARING WORK. THE ARCHITECT AND ENGINEER SHALL BE NOTIFIED OF ANY DISCREPANCIES OR INCONSISTENCIES PRIOR TO PROCEEDING.
4. ALL PHASES OF WORK ARE TO CONFORM TO THE MINIMUM STANDARDS OF THE CALIFORNIA BUILDING CODE (2022 EDITION C.B.C.), RELATED CALIFORNIA BUILDING CODE STANDARDS, AND ANY A.S.T.M. SPECIFICATIONS ON WHICH THESE STANDARDS ARE BASED. WHERE CONFLICT BETWEEN BUILDING CODES AND SPECIFICATIONS OCCURS, THE MOST STRINGENT REQUIREMENTS SHALL GOVERN.
5. ALL A.S.T.M. DESIGNATIONS REFERRED TO ON THESE DRAWINGS SHALL BE THE LATEST ADOPTED OR REVISED SPECIFICATION, AS OF THE DATE OF THESE DRAWINGS.
6. ALL DIMENSIONS SHALL TAKE PRECEDENCE OVER SCALE SHOWN ON PLANS, SECTIONS AND DETAILS. DRAWINGS SHALL NOT BE SCALED FOR CONSTRUCTION PURPOSES.
7. NOTES AND DETAILS ON THE DRAWINGS SHALL TAKE PRECEDENCE OVER GENERAL NOTES AND TYPICAL DETAILS.
8. THE STRUCTURAL DRAWINGS SHOW ONLY THE BASIC STRUCTURAL REQUIREMENTS. REFER TO CIVIL, ARCHITECTURAL, MECHANICAL, PLUMBING, AND ELECTRICAL DRAWINGS THAT OCCUR PER SPECIFIC PLANS FOR NON-STRUCTURAL ITEMS, SUCH AS:
   A. SIZE AND LOCATION OF ALL OPENINGS.
   B. SIZE AND LOCATION OF ALL NON-BEARING WALLS.
   C. SIZE AND LOCATION OF ALL CONCRETE CURBS, WALKS, ROOF AND FLOOR DRAINS, SLOPES, DEPRESSED SLAB AREAS, ETC.
   D. FLOOR, ROOF AND WALL FINISHES.
   E. DIMENSIONS NOT SHOWN ON STRUCTURAL DRAWINGS.
9. THE STRUCTURAL CONTRACT DOCUMENTS AND SPECIFICATIONS REPRESENT THE FINISHED STRUCTURE. UNLESS OTHERWISE INDICATED, THEY DO NOT INDICATE THE METHOD OF CONSTRUCTION.
10. NEITHER THE OWNER NOR THE ARCHITECT/STRUCTURAL ENGINEER WILL ENFORCE SAFETY MEASURES OR REGULATIONS. THE CONTRACTOR SHALL, AT HIS OWN EXPENSE, DESIGN, CONSTRUCT AND MAINTAIN ALL SAFETY DEVICES, INCLUDING SHORING AND BRACING AND SHALL BE SOLELY RESPONSIBLE FOR CONFORMING TO ALL LOCAL, STARE AND FEDERAL SAFETY AND HEALTH STANDARDS, SLAWS AND REGULATIONS. OBSERVATION VISITS TO THE SITE BY THE STRUCTURAL ENGINEER SHALL NOT INCLUDE INSPECTION OF THE ABOVE SAFETY ITEMS.
11. SATISFACTORY EXECUTION OF CONSTRUCTION IS DEPENDENT UPON CONFORMANCE WITH THE INTENT OF THESE DRAWINGS. OWNER OR CONTRACTOR SHALL RETAIN A CALIFORNIA LICENSED STRUCTURAL ENGINEER DURING CONSTRUCTION TO OBSERVE THE CONSTRUCTION AND FILE A REPORT (DSA 6AE) STATING THE "THE CONSTRUCTION HAS, IN EVERY MATERIAL RESPECT, BEEN PERFORMED IN COMPLIANCE WITH THE DSA APPROVED DOCUMENTS".
12. CONSTRUCTION MATERIALS SHALL BE SPREAD OUT IF PLACED ON FRAMED FLOORS OR ROOF. LOAD SHALL NOT EXCEED DESIGN LIVE LOAD FOR EACH PARTICULAR LEVEL. WHEN WEIGHT OF MATERIALS OR EQUIPMENT MAY EXCEED DESIGN LOAD, STRUCTURAL SYSTEMS SHALL BE SHORED.
13. WHERE NO CONSTRUCTION DETAILS ARE SHOWN OR NOTED FOR ANY PART OF THE WORK. THE DETAILS SHALL BE THE SAME AS FOR OTHER SIMILAR WORK.

DESIGN BASIS:

CODE: 2022 C.B.C. (CALIFORNIA BUILDING CODE CCR, TITLE 24, PART 2)

GRAVITY LOADS:

1. ROOF LIVE LOAD — 5 P.S.F.
2. ROOF DEAD LOAD — 1.5 P.S.F. (MAX.)
3. SNOW LOAD Pg — 5.0 PS.F.

LATERAL LOADS:

1. SEISMIC DESIGN

☐ SITE CLASS D — Default were no Geotechical Report required

RISK CATEGORY = II
REDUNDANCY (p) = 1

S_s = 2.5
S_{DS} = 1.67

S_{ds} = S_{ms} X 2/ 3

☐ CANOPIES OCCUPANCY = II

☐ ORDINARY STEEL CANTILEVER COLUMNS

SEISMIC DESIGN CATEGORY = E (ASCE 7-16 TABLE 11.6.1 AND TABLE 11.6.2)
I_e = 1.25
R = 1.25
$C_S = S_{ds}/(R/I_e)$ (LRFD) = 1.33 Ultimate (0.993 ASD)
ANALYSIS METHOD = EQUIVALENT LATERAL FORCE ANALYSIS

Note: Design values may also be used conservatively where Site Class C is justified by location specific Geotechnical Report

2. WIND DESIGN
   ANALYSIS METHOD = DIRECTIONAL PROCEDURE (OPEN STRUCTURE)
   V = 110 M.P.H. BASIC WIND SPEED, ASCE 7-16
   EXPOSURE "C"
   Kzt = 1.0
   RISK CATEGORY = II
   SITE CLASS "D-DEFAULT"

   STRUCTURE IS DESIGN FOR CLEAR WIND FLOW

   FLOOD HAZARD: DESIGN DOES NOT ACCOUNT FOR FLOOD HAZARD

   SITE SPECIFIC GEOTECHNICAL STUDY IS NOT REQUIRED FOR

   THIS PC PROJECT IS NOT DESIGNED TO INCLUDE WEIGHT OF SPRINKLERS

BUILDING SEPARATION REQUIREMENT:

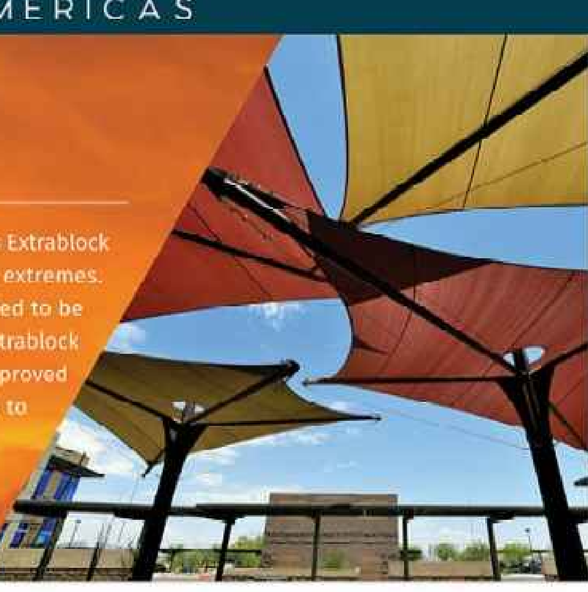
MINIMUM CLEAR DISTANCE REQUIRED BETWEEN EXISTING SITE STRUCTURE/ ADJACENT SITE STRUCTURE AND SHADE STRUCTURE IS TO BE AT LEAST 5' FROM OUTER EDGE OF FABRIC TO OUTER EDGE OF STRUCTURE AND PER EMBEDDED DOUBLE POST OPTION BETWEEN SHADE STRUCTURES IN THE SAME APPLICATION.

SEISMIC BASE SHEAR (LRFD)	
BUILDING CONFIGURATION	BASE SHEAR (KIP)
20'X20'	1.5K
30'X30'	3.00K
40'X30'	3.50K

ALNET AMERICAS

EXTRABLOCK

Designed for strength and durability, Alnet's Extrablock shadecloth protects against all of nature's extremes. It meets the highest standards and is knitted to be dimensionally stable for easy fabrication. Extrablock also comes in 18 California Fire Marshall approved colors and is backed by a 10-year warranty to demonstrate our dedication to quality, durability and safety.



CERTIFICATIONS

NFPA 701 | ASTM E84 TESTING | UP TO 98% UVR PROTECTION | 100% RECYCLABLE | SABS APPROVED | verified BEE rating

10 Year Warranty

ALNET is the leading innovator in synthetic textile and netting material production for the world's ***architectural, agricultural, aquacultural*** and ***industrial industries.***

For more information, please contact **protect@AlnetAmericas.com** or visit us at **www.AlnetAmericas.com**

ALNET AMERICAS — EXTRABLOCK

Properties	Mass	Thickness	Fabric Width	Strip Tensile		Elongation at Break		Tearing Strength - Tongue Tear		Burst Strength	Burst Strength	Air Permeability	Temp. Stability
Test Method	ASTM 3776	ASTM 1777	ASTM 3774	ASTM D 5034		ASTM D 4595-87		ASTM D 2261		ASTM 3787 Ball	ASTM 3786 Mullen	ASTM D704	
				Warp	Weft	Warp	Weft	Warp	Weft			cm/s	
US	9.6 oz/yd	50.4 mil	118 in.	278 lbf	340 lbf	71%	74%	33 lbs	36 lbs	363 lb	460 psi	263.5	-13°F +176°F
Metric	325 gsm	1.28mm	3 m	1236 N	1512 N	71%	74%	147 N	160 N	1615 N	3172 kPa		-25°C +80°C

Colors	UPF	UVR	Shade Factor	Fire Retardancy	Flame Resistance
Cream	13	92%	74%	Yes	ASTM E-84
Beige	33	97%	87%	Yes	ASTM E-84
Yellow	16	94%	76%	Yes	ASTM E-84
Red	29	97%	86%	Yes	ASTM E-84
True Blue	14	93%	89%	Yes	CSFM/CA 1237.1 Title 19 - NFPA-701 #2 - CAN/ULC-S109 - ASTM E-84
Forest Green	24	96%	94%	Yes	CSFM/CA 1237.1 Title 19 - NFPA-701 #2 - CAN/ULC-S109 - ASTM E-84
Silver	19	95%	93%	Yes	CSFM/CA 1237.1 Title 19 - NFPA-701 #2 - CAN/ULC-S109 - ASTM E-84
Sunblaze	14	94%	91%	Yes	CSFM/CA 1237.1 Title 19 - NFPA-701 #2 - CAN/ULC-S109 - ASTM E-84
Latte	18	95%	90%	Yes	CSFM/CA 1237.1 Title 19 - NFPA-701 #2 - CAN/ULC-S109 - ASTM E-84
Bottle Green	16	94%	91%	Yes	CSFM/CA 1237.1 Title 19 - NFPA-701 #2 - CAN/ULC-S109 - ASTM E-84
Charcoal	20	96%	94%	Yes	CSFM/CA 1237.1 Title 19 - NFPA-701 #2 - CAN/ULC-S109 - ASTM E-84
Midnight	33	98%	98%	Yes	CSFM/CA 1237.1 Title 19 - NFPA-701 #2 - CAN/ULC-S109 - ASTM E-84
Mint Green	18	95%	93%	Yes	CSFM/CA 1237.1 Title 19 - NFPA-701 #2 - CAN/ULC-S109 - ASTM E-84
Dove Blue	13	93%	90%	Yes	CSFM/CA 1237.1 Title 19 - NFPA-701 #2 - CAN/ULC-S109 - ASTM E-84
Oxide Red	14	93%	91%	Yes	CSFM/CA 1237.1 Title 19 - NFPA-701 #2 - CAN/ULC-S109 - ASTM E-84
Pearl Onyx	16	94%	86%	Yes	CSFM/CA 1237.1 Title 19 - NFPA-701 #2 - CAN/ULC-S109 - ASTM E-84
Purple	16	94%	86%	Yes	CSFM/CA 1237.1 Title 19 - NFPA-701 #2 - CAN/ULC-S109 - ASTM E-84
Olive	26	97%	96%	Yes	CSFM/CA 1237.1 Title 19 - NFPA-701 #2 - CAN/ULC-S109 - ASTM E-84
Brown	19	95%	93%	Yes	CSFM/CA 1237.1 Title 19 - NFPA-701 #2 - CAN/ULC-S109 - ASTM E-84
Navy Blue	23	96%	96%	Yes	CSFM/CA 1237.1 Title 19 - NFPA-701 #2 - CAN/ULC-S109 - ASTM E-84
Lime	18	95%	79%	Yes	CSFM/CA 1237.1 Title 19 - NFPA-701 #2 - CAN/ULC-S109 - ASTM E-84
Hazelnut	18	95%	91%	Yes	CSFM/CA 1237.1 Title 19 - NFPA-701 #2 - CAN/ULC-S109 - ASTM E-84

FNAME
REVDATE
USER

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DIV. OF THE STATE ARCHITECT
APP: 02-122820 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 8/21/2024

rea architect
RON EDWARDS

Architecture
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Bakersfield, CA 93313
(661) 394-0053
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LICENSED ARCHITECT — RONALD W. EDWARDS — C 25182 — REN. 12-31-25 — STATE OF CALIFORNIA

MANUFACTURER:

CUSTOM CANOPIES INC.
11815 BURKE STREET
SANTA FE SPRINGS, CA 90670

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CODE: 2022 CBC
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DATE: 04/12/2024

PRECHECK FABRIC SHADE STRUCTURE II

REGISTERED PROFESSIONAL ENGINEER — JAMES L. MITCHELL — S 3081 — EXP. 6/30/2025 — STRUCTURAL — STATE OF CALIFORNIA
2/16/24

Project #: 22-037
Drawn By: RWE
Date: 12-20-22

S1.1

STRUCTURAL OBSERVATION:

1. PER C.B.C. CHAPTER 17A, 1704A.6 THE OWNER SHALL EMPLOY A LICENSED ENGINEER OR ARCHITECT RESPONSIBLE FOR THE STRUCTURAL DESIGN, OR HIS DESIGNATED ENGINEER OR ARCHITECT TO MAKE SITE VISITS TO OBSERVE. GENERAL COMPLIANCE WITH THE APPROVED STRUCTURAL PLANS, SPECIFICATIONS AND CHANGE ORDERS. THE ENGINEER OR ARCHITECT SHALL SUBMIT A STATEMENT IN WRITING TO THE BUILDING OFFICIAL STATING THAT THE SITE VISIT HAS BEEN MADE AND THAT ANY DEFICIENCIES NOTED HAVE BEEN CORRECTED.

2. IN ACCORDANCE WITH SECT. 4-333 (a) OF TITLE 24, PART 1, STRUCTURAL OBSERVATION SHALL INCLUDE AND OCCUR AT THE FOLLOWING STAGES:
   A. OBSERVATION AT THE SITE PRIOR TO PLACING CONCRETE.
   B. OBSERVATION OF THE BUILDING DURING FABRICATION AFTER MAJORITY OF STRUCTURAL ITEMS ARE IN PLACE.
   C. OBSERVATION OF THE COMPLETED STRUCTURE PRIOR TO BEING COVERED FINISHES.

3. AT COMPLETION OF IN-PLANT MANUFACTURING THE INDIVIDUAL ACCEPTING RESPONSIBILITY FOR OBSERVATION OF IN-PLANT MANUFACTURING SHALL SIGN THE VERIFIED REPORT, DSA 152-IPI (IN-PLANT INSPECTOR VERIFIED REPORT).

4. OBSERVATION OF THE ON SITE CONSTRUCTION INCLUDES THE SCOPE OF WORK INDICATED ON THE DSA APPROVED BUILDING PLANS AND SPECS.

5. INTERIM AND FINAL VERIFIED REPORTS ARE REQUIRED DURING, AND AT THE COMPLETION OF, ON SITE CONSTRUCTION AND INSTALLATION USING FORM DSA 6-AE (ARCHITECT/ENGINEER VERIFIED REPORT).

6. STRUCTURAL TESTING & SPECIAL INSPECTIONS: SEE APPROVED DSA-103 FORM FOR STRUCTURAL TESTING AND INSPECTIONS.

COLD FORMED STRUCTURAL STEEL:

1. ALL LIGHT GAUGE METAL FRAMING SHALL BE THE TYPE, SIZE, GAUGE AS SHOWN ON THE PLANS AND BE FABRICATED AND ERECTED IN ACCORDANCE WITH 2016 (2020) A.I.S.I. S100 SPECIFICATIONS. WITH SUPPLEMENT 2 AND 2022 CBC SECTIONS 2210A, 2211A, &2213A.

2. STRUCTURAL STEEL SHALL BE HOT DIP GALVANIZED PER ASTM A123 OR A153 CLASS D OR PAINTED WITH ZINC-RICH PRIMER, UNDERCOAT, AND FINISH COAT; OR EQUIVALENT PAINT SYSTEM. COLD FORMER STEEL MEMBERS SHALL BE 5 PERCENT ALUMINUM-ZINC ALLOY COATED PER ASTM A792/A792M STANDARD IN ACCORDANCE TO AMERICAN IRON AND STEEL INSTITUTE (AISI) S240 TABLE A4-1, CP 90 COATING DESIGNATION.

3. TOUCH UP COLD GALVANIZING USING ZRC CHEMICAL PRODUCTS CO., ZRC COLD GALVANIZING COMPOUND OR EQUAL.

STEEL CABLES:

1. ALL CABLE STEEL TO BE ASTM A1023, 6X19 CLASS IWRC OR 7x19 CLASS IWRC

2. CABLES SHALL BE GALVANIZED (CLASS A ZINC COATING) OR STAINLESS STEEL, CLASS BRIGHT WIRE ROPE

3. MAXIMUM CABLE STRENGTH: (Service loads)

5 / 16"	7X19 304 SS	=	3.068K
3 / 8"	7X19 304 SS	=	4.091K
7/16"	6X19 Galv.	=	6.259K
1/2"	6X19 Galv.	=	8.181K

4. MAXIMUM. PRETENSION LOAD:(Service loads)

1 / 4"	DIA.	=	0.30k
3 / 8"	DIA.	=	0.30k
7/ 16"	DIA.	=	0.30k
1/2"	DIA	=	0.50K

5. FOR CABLE (ROPE CLIPS) SEE SHEET 1 OF EACH SIZE

WELDING:

1. ALL WELDING SHALL BE IN ACCORDANCE WITH THE PROVISIONS OF THE AMERICAN WELDING SOCIETY CODE D1.1.-15, AND CBC.

2. ALL WELDING SHALL BE DONE BY CERTIFIED WELDERS.

3. ALL WELDING SHALL BE DONE BY THE SHIELDED ARC PROCESS USING APPROVED ELECTRODES PER A.W.S. SPECIFICATIONS E70XX (LOW HYDROGEN ELECTRODES).

4. ALL WELDS SHALL HAVE A WELD CONTROLLED SEQUENCE AND TECHNIQUE IN ORDER TO MINIMIZE SHRINKAGE, STRESSES AND DISTORTION.

5. ALL ELECTRODES FILLER MATERIAL SHALL BE A MINIMUM OF E70XX.

6. SPECIAL INSPECTION IS REQUIRED FOR ALL WELDING.

STEEL:

1. QUALIFIED AND CERTIFIED WELDERS SHALL BE USED FOR ALL WELDING. ALL WELDING TO CONFORM TO THE LATEST ADOPTED EDITION OF THE AMERICAN WELDING SOCIETY STRUCTURAL WELDING CODE A.W.S. D1.1.

2. MATERIALS:

MISCELLANEOUS PLATES	A.S.T.M. A-36
STRUCTURAL STEEL PIPES	A.S.T.M. A500 Gr. B, Fy = 42 ksi
WELDING ELECTRODES	A.W.S. STRUCTURAL STEEL E70XX,
TYPICAL STEEL CONNECTION BOLTS	GALVANIZED A307
GALVANIZING	A.S.T.M. A-123
RUST-INHIBITING PRIMER	CC-M10
STEEL TUBING	A.S.T.M. A-500, GRADE C (HSS ROUND) (Fy = 46 K.S.I.) (HSS RECT) (Fy = 50 K.S.I.)

3. STRUCTURAL STEEL SHALL BE HOT DIP GALVANIZED PER ASTM A123, UNDERCOAT AND FINISH COAT OR EQUIVALENT PAINT SYSTEM.

4. CONNECTED MEMBERS SHALL BEAR ONLY UPON UNTHREADED PORTIONS OF BOLTS.

5. BURNING OF HOLES IS NOT ALLOWED.

6. INSPECTION OF WELDING SHALL CONFORM TO C.B.C. REQUIREMENTS (CHAPTER 17A).

7. THE STRUCTURAL STEEL FABRICATOR SHALL SUBMIT SHOP DRAWINGS TO THE ENGINEER FOR APPROVAL PRIOR TO FABRICATION.

8. BOLT HOLES SHALL BE 1 / 8" LARGER IN DIAMETER THAN NOMINAL SIZE OF BOLTS USED, UNLESS NOTED OTHERWISE.

9. STRUCTURAL STEEL SHALL BE DELIVERED TO THE JOB SITE FREE OF EXCESSIVE RUST, MILL SCALE, GREASE, ETC.

10. OPENINGS SHALL NOT BE PLACED IN STEEL MEMBERS UNLESS SPECIFICALLY DETAILED.

REGISTERED PROFESSIONAL ENGINEER
JAMES L. MITCHELL
S 3081
EXP. 6/30/2025
STRUCTURAL
STATE OF CALIFORNIA

2/16/24

FNAME

REVDATE

USER

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DIV. OF THE STATE ARCHITECT
APP: 02-122820 INC:
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SS ☑ FLS ☑ ACS ☑
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PRECHECK FABRIC SHADE STRUCTURE II

Project # **22-037**
Drawn By **RWE**
Date **12-20-22**

S1.2

ABBREVIATIONS:

&	AND
@	AT
℄	CENTER LINE
℞	PLATE, PROPERTY LINE
A.B.	ANCHOR BOLT
ADJ	ADJACENT
A.F.F.	ABOVE FINISH FLOOR
ARCH'L	ARCHITECTURAL
BD	BOARD
BLD'G	BUILDING
BLK	BLOCK
BLK'G	BLOCKING
BLW	BELOW
BM	BEAM
B.N.	BOUNDARY NAIL/SCREW
BOT.	BOTTOM
BRG	BEARING
B.S.	BOTH SIDE
BTWN	BETWEEN
C.B.	CARRIAGE BOLT
C.F.	CUBIC FOOT
CHAM	CHAMFER
C.I.	CAST-IRON
C.I.P.	CAST-IN-PLACE
C.J.	CONTROL JOINT
CLG	CEILING
CLK	CAULK
CLK'G	CAULKING
CLR.	CLEAR
C.M.U.	CONCRETE MASONRY UNIT
CNTR	CENTER
COL	COLUMN
CONC	CONCRETE
CONN	CONNECTION
CONT	CONTINUOUS
CNTRSNK	COUNTERSINK
d	PENNY
DBL	DOUBLE
DEP	DEPRESSED
DET	DETAILED
D.F.	DOUGLAS FIR
D.F.L.	DOUGLAS FIR/LARCH
DIA	DIAMETER
DIAG	DIAGONAL
DIAM.	DIMENSION
D.L.	DEAD LOAD
DN	DOWN
DIV	DIVISION
DR	DOOR
DWG	DRAWING
DWL	DOWEL
EA	EACH
E.F.	EACH FACE
EL.	ELEVATION
ELEV.	ELEVATION / ELEVATOR
EMBED	EMBEDMENT
E.N.	EDGE NAIL/SCREW
EQ.	EQUAL
EQUIP	EQUIPMENT
E.S.	EACH SIDE
E.W.	EACH WAY
EXIST'G	EXISTING
EXP	EXPANSION
EXT	EXTERIOR
F.D.	FLOOR DRAIN
FDN	FOUNDATION
F.F.	FINSIH FLOOR
FIN.	FINISH
F.N.	FIELD NAIL
F.O.	FACE OF
FRM'G	FRAMING
F.S.	FAR SIDE
FT	FEET / FOOT
FTG	FOOTING
GA	GAUGE
GALV	GALVANIZED
G.I.	GALVANIZED IRON
GLB	GLU-LAMINATED BEAM
GRD	GRADE
GYP	GYPSUM
H.D.	HOLDOWN
HDR	HEADER
HGR	HANGER
HORIZ	HORIZONTAL
HRD	HARD
H.S.B.	HIGH STRENGTH BOLT
HT.	HEIGHT
HVAC	HEATING, VENTILATION, & AIR CONDITIONING
IN.	INCH
INSP.	INSPECTION / INSPECTOR
INT.	INTERIOR
JST	JOIST
JT	JOINT
KIPS	KILOPOUNDS (1,000 POUNDS)
K.O.	KNOCK OUT
LB	POUND
L.B.	LAG BOLT
L.F.	LINEAR FOOT
LG	LONG
L.L.	LIVE LOAD
L.L.H.	LONG LEG HORIZONTAL
L.L.V.	LONG LEG VERTICAL
L.S.	LAG SCREW
LT.	LIGHT
MAS	MASONRY
MAT.	MATERIAL
MAX.	MAXIMUM
M.B.	MACHINE BOLT
MECH'L	MECHANICAL
MEZZ.	MEZZANINE
MIN.	MINIMUM
M.H.	MANHOLE
MANUF.	MANUFACTURER
MTL.	METAL
N.S.	NEAR SIDE
N.I.C.	NOT IN CONTACT
NOM.	NOMINAL
N.T.S.	NOT TO SCALE
O.C.	ON CENTER
O.D.	OUTSIDE DIAMETER
O.H.	OPPOSITE HAND
OPN'G	OPENING
OPP	OPPOSITE
O.W.J.	OPEN WEB JOIST
P.C.	PRECAST
PERP.	PERPENDICULAR
PLYWD	PLYWOOD
PNL	PANEL
PREFAB	PREFABRICATED
P.S.F.	POUNDS PER SQUARE FOOT
P.S.I.	POUNDS PER SQUARE INCH
PT	POINT
P.T.	PRESSURE TREATED
P.V.C.	POLYVINYL CHLORIDE
RAD	RADIUS
R.D.	ROOF DRAIN
REF.	REFERENCE
REINF.	REINFORCED / REINFORCING
REQ'D	REQURIRED
REV	REVISION
RF	ROOF
RFTR	RAFTER
R.H.	ROOF HATCH
RM	ROOM
R.O.	ROUGH OPENING
R.S.	ROUGH SAWN
SCHED.	SCHEDULE
SECT.	SECTION
S.F.	SQUARE FOOT
SHT	SHEET
SHT'G	SHEETING
SIM.	SIMULAR
S.M.S.	SHEET METAL SCREW
SPEC.	SPECIFICATION
SQ.	SQUARE
S.S.	STAINLESS STEEL
STAGG.	STAGGARED
STD	STANDARD
STIFF.	STIFFENER
STL.	STEEL
STRUCT'L	STRUCTURAL
STS	SELF TAPPING SCREW
SYM	SYMMETRICAL
SYS	SYSTEM
T & B	TOP AND BOTTM
T & G	TONGUE AND GROOVE
TEMP	TEMPORARY
THK	THICK
THKN'D	THICKENED
THRU	THROUGH
T.L.	TOTAL LOAD
T.O.	TOP OF
T.S.G.	TAPERED STEEL GIRDER
TYP.	TYPICAL
U.N.O.	UNLESS NOTED OTHERWISE
U.T.	ULTRASONIC TESTING
VERT.	VERTICAL
W/	WITH
W/O	WITHOUT
WD	WOOD
WIN	WINDOW
W.P.	WATERPROOF / WORK POINT
W.P.J.	WEAKENED PLAN JOINT
WT.	WEIGHT
W.W.F.	WELDED WIRE FABRIC
W.W.M.	WELDED WIRE MESH

REGISTERED PROFESSIONAL ENGINEER
JAMES L. MITCHELL
S 3081
EXP. 6/30/2025
STRUCTURAL
STATE OF CALIFORNIA
2/16/24

FNAME
REVDATE
USER

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-122820 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 8/21/2024

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RON EDWARDS
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(661) 394-0053
ron@rearchitect.net

LICENSED ARCHITECT
RONALD W. EDWARDS
C 25192
REN 12-31-25
STATE OF CALIFORNIA

MANUFACTURER:

CUSTOM CANOPIES INC.
11815 BURKE STREET
SANTA FE SPRINGS, CA 90670

IDENTIFICATION STAMP DIVISION OF THE STATE ARCHITECT
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CODE: 2022 CBC
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PRECHECK FABRIC SHADE STRUCTURE II

Project # 22-037	S1.3
Drawn By RWE	
Date 12-20-22	

7X19 Stainless Steel Cable

Diameter (in)	Weight per 100ft (lbs)	Nominal B.S. (lbs)	
		AISI 302,304	AISI 316
1/16	0.75	480	427
3/32	1.74	920	819
1/8	2.90	1,760	1,566
5/32	4.50	2,400	2,136
3/16	6.50	3,700	2,900
7/32	8.60	5,000	4,450
☐ 1/4	11.0	6,400	5,696
☐ 5/16	17.3	9,000	7,600
☐ 3/8	24.3	12,000	11,000

kulkoni

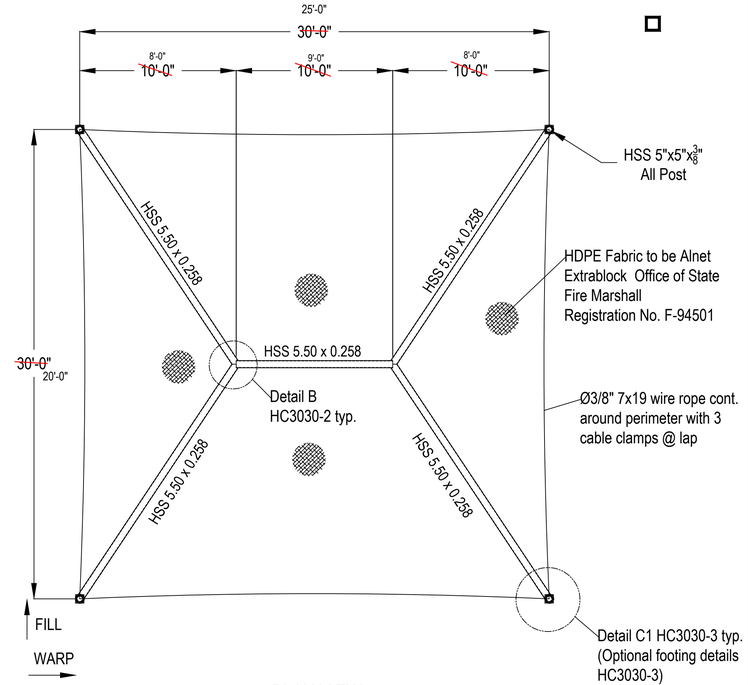
MALLEABLE WIRE ROPE CLIPS

ZINC PLATED, MALLEABLE

Size in Inches	Min. Clips Required	Wire Rope Turn Back in Inches	Torque in Foot Pounds*	Approx. Wt. in Pounds	Dimensions in Inches					
					A	B	C	D	E	F	G
1/16**	3	4	2.0	0.030	0.15	0.65	0.45	0.38	0.38	0.45	0.69
1/8**	3	4 3/4	3.0	0.040	0.18	0.81	0.50	0.50	0.50	0.56	0.94
3/16	3	5 1/2	4.5	0.063	0.25	0.94	0.56	0.56	0.56	0.63	1.06
1/4	3	7	15.0	0.130	0.31	1.19	0.75	0.75	0.69	0.75	1.31
5/16	3	7 3/4	15.0	0.150	0.31	1.31	0.84	0.75	0.75	0.75	1.44
3/8	3	9 1/2	30.0	0.210	0.38	1.63	1.00	0.88	0.84	0.88	1.63
7/16	4	10 1/4	40.0	0.370	0.38	2.00	1.19	1.06	1.00	1.06	1.88
1/2	4	15 1/4	45.0	0.370	0.44	2.00	1.19	1.06	1.00	1.06	1.88
9/16	4	16	50.0	0.590	0.50	2.31	1.38	1.25	1.25	1.28	2.09
5/8	4	16	75.0	0.590	0.50	2.31	1.38	1.25	1.25	1.28	2.09
3/4	5	22 1/4	75.0	0.840	0.56	2.56	1.56	1.31	1.44	1.56	2.38
7/8	5	23 1/2	130.0	1.250	0.63	3.06	1.81	1.63	1.75	1.81	2.88
1	6	31	130.0	1.660	0.63	3.44	2.00	1.88	2.06	2.00	3.00
1 1/8	7	39	200.0	2.430	0.75	4.00	2.75	2.00	2.19	2.06	3.38

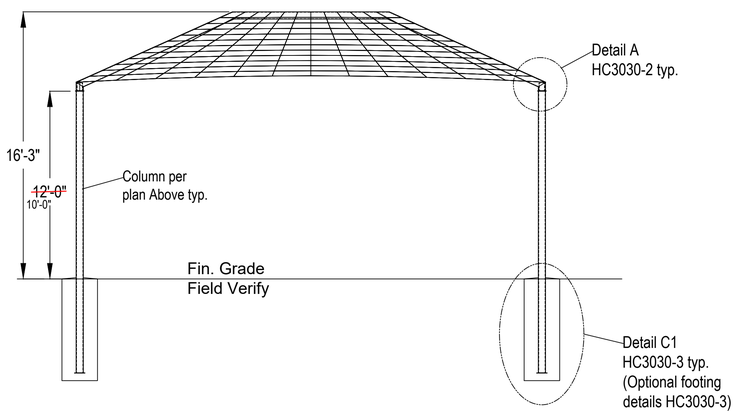
Meets the performance requirements of Federal Specification FF-C-450, current revision, Type 1, Class 2.**
* Based on clean, unlubricated threads. The table above shows the minimum torque required to reach maximum holding power of wire rope clips.
** NOTE: 1/16" and 1/8" are not covered by Federal Specification FF-C-450, current revision.

Improper use and installation of cast malleable wire rope clips can result in serious injury or death.
NEVER use cast malleable wire rope clips for lifting or suspending ANY load.
Cast malleable wire rope clips are to be used only for non-critical, light duty applications with small applied loads.
For complete installation instructions refer to page 48.

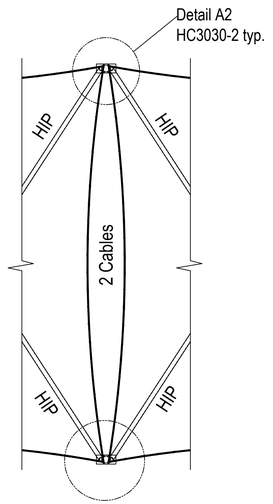


PLAN VIEW

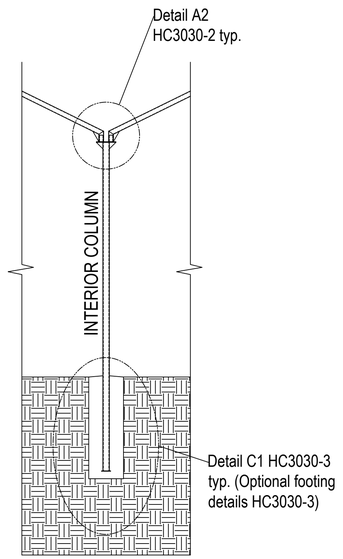
NOTES:
1 - Steel Structure not designed for snow load accumulation in excess of 5.0 psf.
All Sails/cables shall be removed prior to snow load accumulation
2 - Refer to HC3030-3/HC3030-4 for Footing details



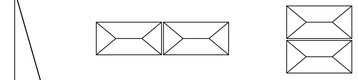
ELEVATION VIEW

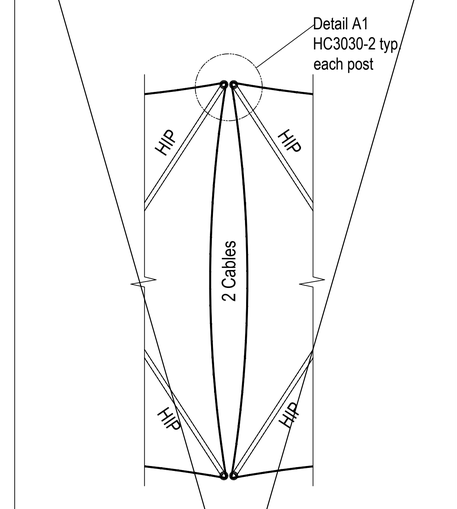


☒ CONJOINED INTERIOR PLAN DETAIL - Single Post

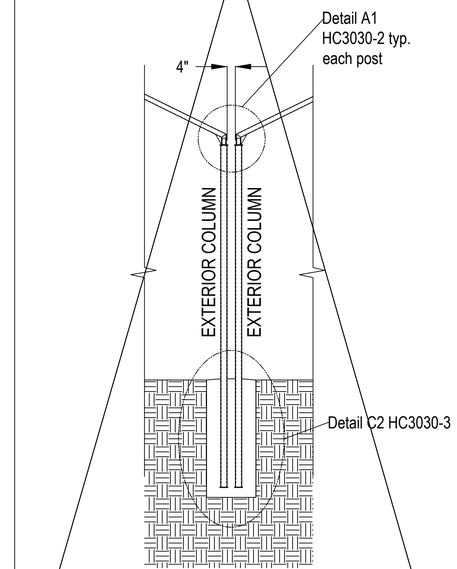


☒ CONJOINED INTERIOR COLUMN DETAIL - Single Post





☐ DOUBLE EXTERIOR PLAN DETAIL - Double Post



☐ DOUBLE EXTERIOR COLUMN DETAIL - Double Post

Scale: Not To Scale

JAMES L. MITCHELL REGISTERED PROFESSIONAL ENGINEER STRUCTURAL STATE OF CALIFORNIA
S 3081
EXP. 6/30/2025
2/16/24

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT
APP: 02-122820 INC:
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LICENSED ARCHITECT RONALD W. EDWARDS © 25192 Exp. 08-31-25 STATE OF CALIFORNIA

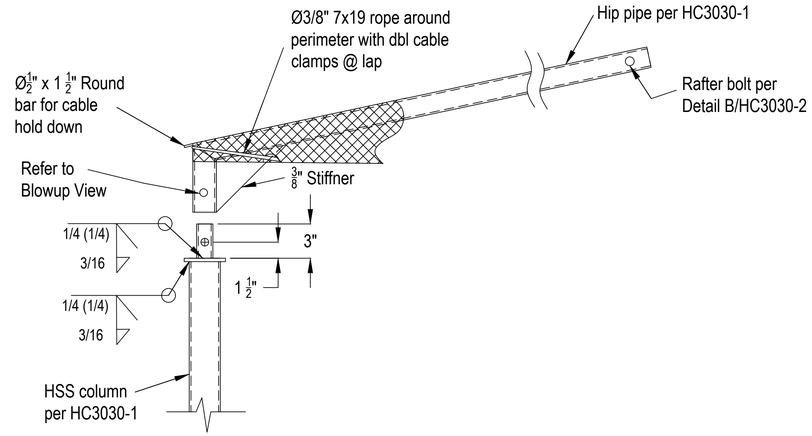
MANUFACTURER:

CUSTOM CANOPIES INC.
11815 BURKE STREET
SANTA FE SPRINGS, CA 90670

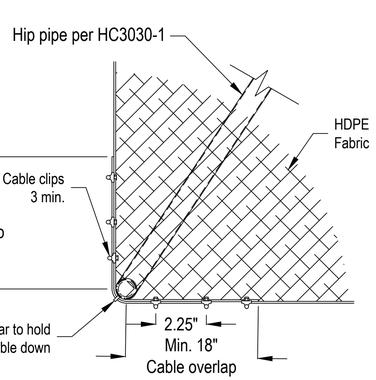
30'X30'X12' HIP CANOPY

Project #	
22-037	
Drawn By	HC3030-1
RWE	
Date	
12-20-22	

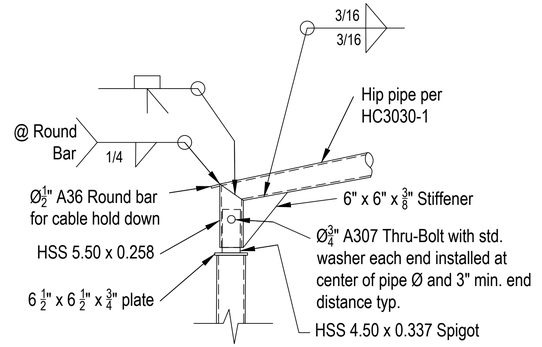
FNAME
REVDATE
USER



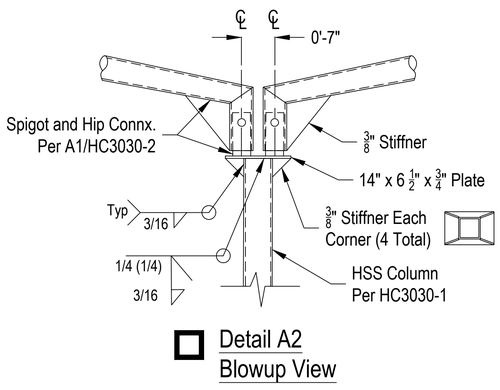
Detail A1



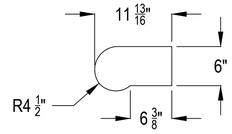
Detail A1 Top View



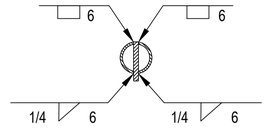
Detail A1 Blowup View



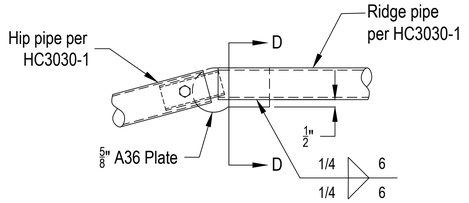
Detail A2 Blowup View



Knife Plate Detail

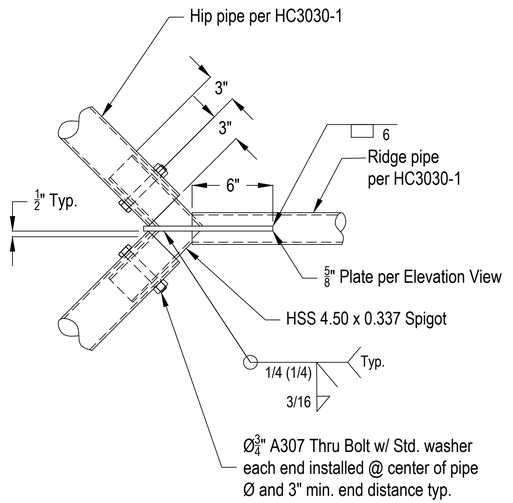


Section View D-D



Plan View

Detail B Elevation View



Detail B Plan View

Scale: Not To Scale

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LICENSED ARCHITECT RONALD W. EDWARDS C 25192 Exp. 08-31-25 STATE OF CALIFORNIA

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30'X30'X12' HIP CANOPY

Project # 22-037
Drawn By RWE
Date 12-20-22

HC3030-2

JAMES L. MITCHELL REGISTERED PROFESSIONAL ENGINEER S 3081 EXP. 6/30/2025 STRUCTURAL STATE OF CALIFORNIA 2/16/24

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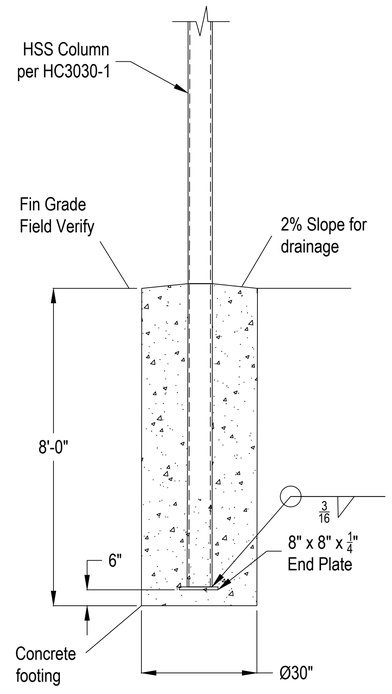
2/16/24

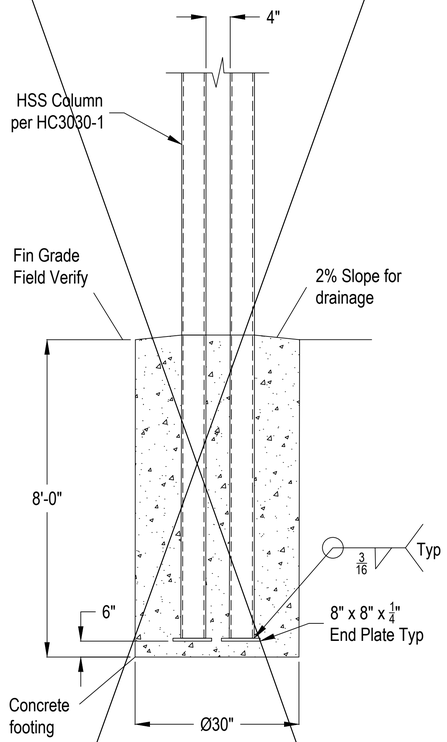
Node No.		Support Forces P_x [kip]	P_y [kip]	P_z [kip]	Support Moments M_x [kipft]	M_y [kipft]	M_z [kipft]	Node Comment Cor. Loading
	LC1 - Self-weight							
1		-0.136	0.044	-0.577	-0.74	-0.96	-0.21	
3		0.136	0.044	-0.577	-0.74	0.96	0.21	
5		-0.136	-0.044	-0.577	0.74	-0.96	0.21	
7		0.136	-0.044	-0.577	0.74	0.96	-0.21	
	LC2 - Prestress							
1		0.034	0.128	0.000	-1.06	0.06	-0.13	
3		-0.034	0.128	0.000	-1.06	-0.06	0.13	
5		0.034	-0.128	0.000	1.06	0.06	0.13	
7		-0.034	-0.128	0.000	1.06	-0.06	-0.13	
	LC3 - Live							
1		-0.179	0.339	-0.861	-3.70	-1.72	-0.75	
3		0.179	0.339	-0.861	-3.70	1.72	0.75	
5		-0.178	-0.339	-0.861	3.70	-1.72	0.75	
7		0.178	-0.339	-0.861	3.70	1.72	-0.75	
	LC4 - Wind 1							
1		1.158	2.095	0.699	-15.02	5.63	-1.22	
3		-1.158	2.095	0.699	-15.02	-5.63	1.22	
5		1.875	-1.758	2.151	12.16	11.16	0.08	
7		-1.875	-1.759	2.151	12.17	-11.16	-0.08	
	LC5 - Wind 2							
1		0.816	2.178	1.720	-16.69	3.11	-1.54	
3		-1.152	1.474	-0.259	-11.36	-6.17	0.94	
5		0.815	-2.178	1.720	16.69	3.10	1.54	
7		-1.151	-1.473	-0.260	11.36	-6.17	-0.94	
	LC6 - Snow							
1		-0.179	0.339	-0.861	-3.70	-1.72	-0.75	
3		0.179	0.339	-0.861	-3.70	1.72	0.75	
5		-0.178	-0.339	-0.861	3.70	-1.72	0.75	
7		0.178	-0.339	-0.861	3.70	1.72	-0.75	



NOTE: This detail shall not be used on Double Post Option

Detail C1

[X] Embedded Single Post Option



Detail C2

[ ] Embedded Double Post Option

Scale: Not To Scale

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30'X30'X12' HIP CANOPY

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