



QUATTROCCHI KWOK
ARCHITECTS

GATEWAY PORTABLES & SHADE STRUCTURES

Bid Clarification 02

September 21, 2026

DSA File Number: 7-H4

DSA Application Number: TBD

PTN: TBD

OWNER

Liberty Union High School District
929 Second Street
Brentwood, CA 94513

ARCHITECT

Quattrocchi Kwok Architects
Santa Rosa: 636 Fifth Street, Santa Rosa, CA 95404
Oakland: 55 Harrison Street, Suite 525, Oakland, CA 94607
Denver: 610 Jerry Street, Castle Rock, CO 80104

ARCHITECT'S PROJECT NO.: 2497.00

To: Prospective Bidders

The following changes, modifications and additions to Project Manual and Drawings described below are made a part thereof and are subject to all of the requirements thereof as if originally specified. The Bidder must acknowledge receipt of the Addendum in the space provided on the Bid Form; failure to do so may subject the Bidder to disqualification.

Table of Contents - Bid Clarification 01

This Addendum consists of 3 pages and the attachments as listed below dated September 21, 2026.

Deleted Text is shown in ~~strikeout type~~.

Added Text is shown in ***bold italicized type***.

ATTACHMENTS:

Bid Clarification Drawings (8.5 inch by 11 inch & 11 inch by 17 inch):

Drawings (24 inch by 36 inch):

G-0.1 Cover Sheet

G-0.2 Abbreviations and Notes

G-0.4 Access Site Plan

PC 02-120865 sheets:

S1 Cover Sheet

S2 Elevations & Details

S3 Typical Canopy Details

S4 Reference Tables

S5 Specification Information

S6 Example Form DSA 103 - Testing & Inspection

PC 02-120866 sheets:

S1 Cover Sheet

S2 Elevations & Details

S3 Typical Canopy Details

S4 Reference Tables

S5 Specification Information

S6 Example Form DSA 103 - Testing & Inspection

Project Manual:

None

Project Record:

None

End of Table of Contents

A. CHANGES TO PREVIOUS BID CLARIFICATIONS

None

B. CHANGES TO THE BIDDING AND CONTRACT REQUIREMENTS

None

C. CHANGES / ADDITIONS TO THE DRAWINGS

Item 2.01 Four Shade Structures

Add the entire set for 5 additional shade structures (three 14'x14' cantilever, one 20'x30' hip) to the contract documents.

End of Bid Clarification

P:\2497.00 - Gateway Port and Shade Structure_LUHSD\Drawings\04-CD\2497.00 Gateway Shade Structures Add-On.plt,9/14/2026,1:54 PM

GATEWAY PROGRAM SHADE STRUCTURES

929 SECOND STREET, BRENTWOOD, CA 94513
LIBERTY UNION HIGH SCHOOL DISTRICT

DSA FILE NO: 7-H4

DSA APPLICATION NO: XX-XXXXXX

PTN: XXXXX-XX

NOTE: SHADE STRUCTURES PROVIDED BY OWNER.
CONTRACTOR TO BID INSTALLATION & FOOTINGS ONLY.

PROJECT TEAM

OWNER

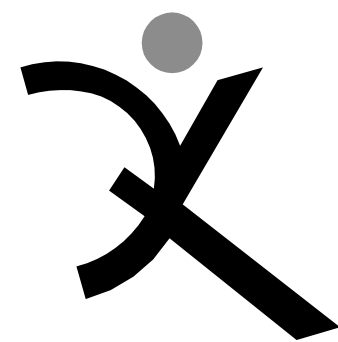
Liberty Union High School District
20 Oak Street
Brentwood, CA 94533
Phone: 925-634-2166
Contact: Paul Melloni
Email: mellonip@luhsd.net

ARCHITECT

Quattrocchi Kwok Architects
636 Fifth Street
Santa Rosa, CA 95404
Phone: 707-576-0829
Fax: 707-576-0295
Email: kevinc@qka.com

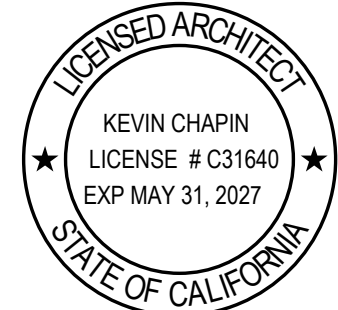
SHADE STRUCTURE

Park Planet
415 Elm St
Red Bluff, CA 96080
Phone: 530-410-5436
Email: gary@parkplanet.com



QUATTROCCHI KWOK
ARCHITECTS

Main:
636 Fifth Street, Santa Rosa, CA 95404
East Bay:
55 Harrison Street, Suite 525,
Oakland, CA 94607
(707) 576-0829



SIGNED: OCTOBER 31, 2026

GATEWAY
PROGRAM

SHADE
STRUCTURES

929 SECOND STREET
BRENTWOOD, CA 94513

LIBERTY UNION HIGH
SCHOOL DISTRICT

DSA APP NO. 01-XXXXXX

ARCH PROJECT NO: 2497.00

DRAWN BY: ERF

DRAWING SCALE: N.T.S.

PTN: XXXXX-XX FILE NO: 7-H4

CONSTRUCTION DOCS

OCTOBER 31, 2026

SHEET TITLE

COVER SHEET

SHEET NUMBER

G-0.1

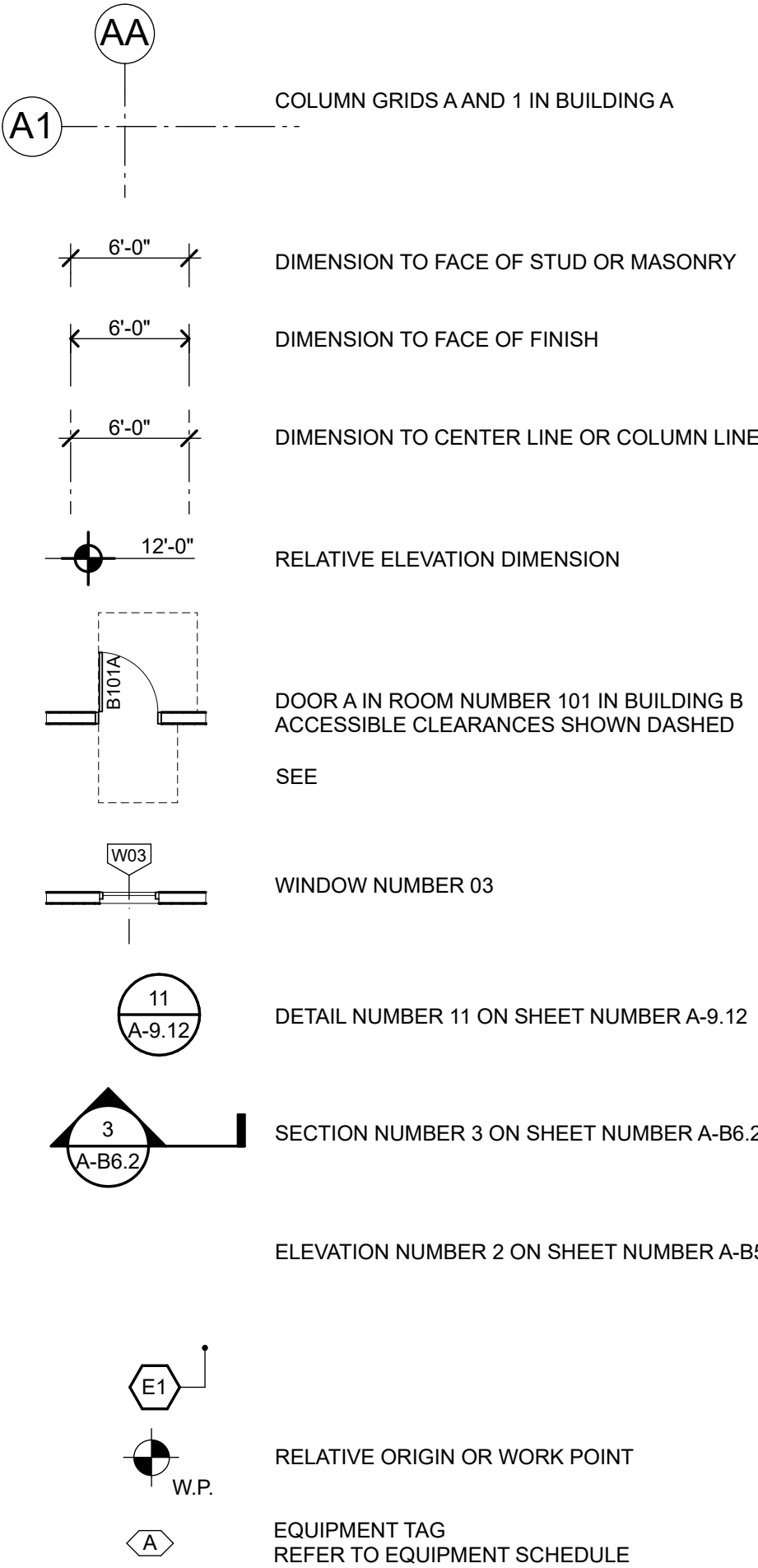
P:\2497.00 - Gateway Port and Shade Structure_LUHSD\Drawings\04-CD\2497.00 Gateway Shade Structures Add-On.pln:9/14/2026:1:59 PM

ABBREVIATIONS

L @ ¢ " d #	AND ANGLE CENTERLINE FEET INCHES PENNY POUND/ NUMBER	F FA FCO FDN FE FEC FF FG FGL FH FHS FHS FHS FIN FIXT FL FLASH FLUR FM/ FOM FN FOC FOF FOS FRMG FR FRP	FACE FIRE ALARM FLOOR CLEAN OUT FLOOR DRAIN FOUNDATION FIRE EXTINGUISHER FIRE EXTINGUISHER CABINET FINISH FLOOR FINISH GRADE FIBERGLASS FIRE HYDRANT FLAT HEAD MACHINE SCREW FIRE HOSE STATION FLAT HEAD WOOD SCREW FINISH FIXTURE FLOOR LINE FLASHING FLOURESCENT FLOOR FACE OF MASONRY FACE NAIL FACE OF CONCRETE FACE OF FINISH FACE OF STUD FRAMING FIRE-RESISTANT FIBERGLASS REINFORCED PANEL FEET FOOTING FURRING	PC P.C.F. PDA PERF PH PL P/L PLAM PLAS PLF PLYWD P.O.C. PR PROP PSF PSI PT PTDF PTN PTR PVC PVMT	PORTLAND CEMENT POUNDS PER CUBIC FOOT POWER DRIVEN ANCHOR PERFORATED PLATE HEIGHT PLATE PROPERTY LINE PLASTIC LAMINATE PLASTER/ PLASTIC POUNDS PER LINEAL FOOT PLYWOOD POINT OF CONTACT PAIR PROPERTY POUNDS PER SQUARE FOOT POUNDS PER SQUARE INCH POINT PRESSURE TREATED DOUGLAS FIR PARTITION PAPER TOWEL RECEPTACLE POLYVINYL CHLORIDE PAVEMENT
AB ABBREV AC A/C ACC ACOUS AC T AD ADJ A.F.F. AGG ALUM ANOD APPROX ARCH ASPH	ANCHOR BOLT ABBREVIATION ASPHALT CONCRETE AIR CONDITIONING ACCESSIBLE ACOUSTICAL ACOUSTICAL TILE AREA DRAIN ADJUSTABLE ABOVE FINISH FLOOR AGGREGATE ALUMINUM ANODIZED APPROXIMATE ARCHITECTURAL ASPHALT	FR FRP FRMG FR FRP FRMG FRP			

LEGEND

ALL NOTES AND SYMBOLS ARE INTENDED TO APPLY AT ALL OTHER LOCATIONS OF SIMILAR GRAPHIC REPRESENTATION. SUCH INDICATIONS MAY BE LIMITED TO PROMOTE CLARITY. NO LIMITATION OF APPLICATION IS INTENDED EXCEPT AS SPECIFICALLY NOTED.



Statement of General Conformance

DSA Application No. 01-XXXXXX File No. 7-H4

The drawings identified as follows:

- ☒ All drawing sheets included in this set not bearing my stamp and signature
- ☐ Drawings denoted in the sheet index as follows: _____
- ☐ Drawings included under the following PC approval(s): _____

have been prepared by other design professionals or consultants who are licensed and/or authorized to prepare such drawings in this state. They have been examined by me for:

- 1) Design intent and appear to meet the appropriate requirements of Title 24, California Code of Regulations and the project specifications prepared by me, and
- 2) Coordination with my drawings (plans) and specifications and are acceptable for incorporation into the construction of this project.

The Statement of General Conformance "shall not be construed as relieving me of my rights, duties, and responsibilities under Sections 17302 and 81138 of the Education Code and Sections 4-336, 4-341, and 4-344" of Title 24, Part I, (Title 24, Part 1, Section 4-316 (b))

Signature _____ Date _____

Architect or Engineer designated to be in general responsible charge

Kevin Chapin C31640 May 30, 2027

Printed Name License Number Expiration Date

GENERAL NOTES

- ALL WORK IS SHOWN, DESCRIBED OR SPECIFIED IN THE DRAWINGS INDEXED ON THIS PAGE OR IN THE SPECIFICATIONS.
- ALL WORK NOT INDICATED AS EXISTING (E) IS NEW.
- ALL FRAMING DIMENSIONS ARE TO FACE OF STUD UNLESS NOTED OTHERWISE.
 - DO NOT SCALE DRAWINGS.
 - VERIFY ALL DIMENSIONS WHERE WORK INVOLVES FRAMING FOR WINDOWS, DOORS, OR CABINETS.
- ONLY WORK SO NOTED IS NOT IN CONTRACT (N.I.C.) ALL N.I.C. ITEMS ARE NOT PART OF DSA APPROVAL
- LIST OF APPLICABLE CODES: A COPY OF TITLE 24 PARTS 1-6 AND PART 9 SHALL BE KEPT ON THE JOB AT ALL TIMES.
 - 2025 CALIFORNIA ADMINISTRATIVE CODE (CAC), PART 1, TITLE 24 CCR
 - 2025 CALIFORNIA BUILDING CODE (CBC), PART 2, TITLE 24 CCR
 - 2025 CALIFORNIA ELECTRICAL CODE (CEC), PART 3, TITLE 24 CCR
 - 2025 CALIFORNIA MECHANICAL CODE (CMC), PART 4, TITLE 24 CCR
 - 2025 CALIFORNIA PLUMBING CODE (CPC), PART 5, TITLE 24 CCR
 - 2025 CALIFORNIA ENERGY CODE (CEC), PART 6, TITLE 24 CCR
 - 2025 CALIFORNIA FIRE CODE (CFC), PART 9, TITLE 24 CCR
 - 2025 CALIFORNIA EXISTING BUILDING CODE (CEBC), PART 10, TITLE 24 CCR
 - 2025 CALIFORNIA GREEN BUILDING STANDARDS CODE (CALGREEN), PART 11, TITLE 24 CCR
 - 2025 CALIFORNIA REFERENCED STANDARDS CODE, PART 12, TITLE 24 CCR
 - TITLE 19 CCR, PUBLIC SAFETY CODE, 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.
- ALL WORK SHALL CONFORM TO 2025 TITLE 24, CALIFORNIA CODE OF REGULATIONS (C.C.R.) IN ACCORDANCE WITH TITLE 24 PART 1 CHAPTER 4: THE ADMINISTRATIVE REGULATIONS FOR THE DIVISION OF THE STATE ARCHITECT STRUCTURAL SAFETY (DSA/SS).
- PROJECT INSPECTOR CERTIFICATION REQUIREMENT PER 4-333.1: CLASS 1
 - 4-331 DSA SHALL BE NOTIFIED AT THE START OF CONSTRUCTION.
 - 4-332 WHEN CONSTRUCTION IS SUSPENDED FOR MORE THAN ONE MONTH, THE PROJECT INSPECTOR SHALL INFORM DSA.
 - 4-333(a) OBSERVATION OF THE WORK SHALL BE BY ARCHITECT OR REGISTERED ENGINEER.
 - 4-333(b) A DSA CERTIFIED PROJECT INSPECTOR EMPLOYED BY THE DISTRICT (OWNER) AND APPROVED BY DSA SHALL PROVIDE CONTINUOUS INSPECTION OF THE WORK. THE DUTIES OF THE INSPECTOR ARE DEFINED IN SECTION 4-342, PART 1, TITLE 24, CCR.
 - 4-334 SUPERVISION OF CONSTRUCTION BY DSA SHALL BE IN ACCORDANCE WITH THIS SECTION.
 - 4-335 A DSA ACCEPTED TESTING LABORATORY DIRECTLY EMPLOYED BY THE DISTRICT (OWNER) SHALL CONDUCT ALL THE REQUIRED TESTS AND INSPECTIONS FOR THE PROJECT IN ACCORDANCE WITH THIS SECTION. COSTS OF RE-TEST MAY BE BACKCHARGED TO THE CONTRACTOR. ALL TESTS AND TESTING LAB SHALL CONFORM TO THE REQUIREMENTS OF SECTION 4-335 AND APPROVED T & I SHEET (DSA-103)
 - 4-336 VERIFIED REPORTS SHALL BE SUBMITTED BY CONTRACTORS (DSA 006-C), INSPECTORS (DSA 006-P), ARCHITECTS AND ENGINEERS (DSA 006-AE) IN ACCORDANCE WITH SECTIONS 4-336 AND 4-343.
 - 4-337 SEMI-MONTHLY REPORTS SHALL BE SUBMITTED BY INSPECTORS (DSA - 155), IN ACCORDANCE WITH SECTIONS 4-337.
 - 4-338 WORK SHALL BE EXECUTED IN ACCORDANCE WITH THE APPROVED PLANS, ADDENDA AND CONSTRUCTION DOCUMENTS.
 - CHANGES TO THE APPROVED PLANS AND SPECIFICATIONS SHALL BE MADE BY AN ADDENDUM OR CONSTRUCTION CHANGE DOCUMENT APPROVED BY THE DIVISION OF THE STATE ARCHITECT, AS REQUIRED BY SECTION 4-338, PART 1, TITLE 24, CCR. ADDENDA AND CHANGE DOCUMENTS SHALL BE STAMPED AND SIGNED BY THE ARCHITECT OR REGISTERED ENGINEER IN CHARGE.
 - 4-341(a) THE ARCHITECT AND THE REGISTERED ENGINEER SHALL PERFORM THEIR DUTIES IN ACCORDANCE WITH SECTIONS 4-333(a) AND 4-341.
 - 4-343 THE CONTRACTOR SHALL PERFORM HIS DUTIES IN ACCORDANCE WITH THIS SECTION.
- THE INTENT OF THE DRAWINGS AND SPECIFICATIONS IS THAT THE WORK OF ALTERATION, REHABILITATION OR RECONSTRUCTION IS TO BE IN ACCORDANCE WITH TITLE 24, C.C.R. SHOULD ANY EXISTING CONDITIONS SUCH AS DETERIORATION OR NON-COMPLYING CONSTRUCTION BE DISCOVERED WHICH ARE NOT COVERED BY THE CONTRACT DOCUMENTS WHEREIN THE FINISHED WORK WILL NOT COMPLY WITH TITLE 24 C.C.R. A CONSTRUCTION CHANGE DOCUMENT (CCD), OR SEPARATE SET OF PLANS AND SPECIFICATIONS, DETAILING AND SPECIFYING THE REQUIRED WORK SHALL BE SUBMITTED TO AND APPROVED BY DSA BEFORE PROCEEDING WITH THE WORK. (SECTION 4-317(C), PART 1, TITLE 24, CCR)
- ALL CONSTRUCTION AND DEMOLITION SHALL BE IN ACCORDANCE WITH CHAPTER 33 OF THE CBC AND THE WRITTEN FIRE LIFE SAFETY PLAN.
- EMERGENCY VEHICLE ACCESS ROADS AND ON-SITE FIRE HYDRANTS SHALL BE IN SERVICE AND OPERABLE PRIOR TO LOADING THE SITE WITH COMBUSTIBLE MATERIALS.
- GRADING PLANS, DRAINAGE IMPROVEMENTS, ROAD AND ACCESS REQUIREMENTS, AND ENVIRONMENTAL HEALTH CONSIDERATIONS SHALL COMPLY WITH APPLICABLE LOCAL ORDINANCES.
- SUBSTITUTIONS AFFECTING DSA REGULATED ITEMS SHALL BE CONSIDERED AS A CONSTRUCTION CHANGE DOCUMENT OR ADDENDUM, AND SHALL BE APPROVED BY DSA PRIOR TO FABRICATION AND INSTALLATION PER DSA IR A-6 AND SECTION 338(C) PART 1, TITLE 24 CCR.
- THE CALIFORNIA ENERGY CODE SECTION 10-103 REQUIRES ACCEPTANCE TESTING ON ALL NEWLY INSTALLED LIGHTING CONTROLS, MECHANICAL SYSTEMS, ENVELOPES, AND PROCESS EQUIPMENT AFTER INSTALLATION AND BEFORE PROJECT COMPLETION. AN ACCEPTANCE TEST IS A FUNCTIONAL PERFORMANCE TEST TO HELP ENSURE THAT NEWLY INSTALLED EQUIPMENT IS OPERATING AND IN COMPLIANCE WITH THE ENERGY CODE.
 - LIGHTING CONTROLS ACCEPTANCE TESTS MUST BE PERFORMED BY A CERTIFIED LIGHTING CONTROLS ACCEPTANCE TEST TECHNICIAN (ATT).
 - MECHANICAL SYSTEM ACCEPTANCE TESTS MUST BE PERFORMED BY A CERTIFIED MECHANICAL ATT FOR PROJECTS SUBMITTED ON OR AFTER OCTOBER 1, 2021.
 - ENVELOPE AND PROCESS EQUIPMENT ACCEPTANCE TESTS SHALL BE PERFORMED BY THE INSTALLING CONTRACTOR, ENGINEER / ARCHITECT OF RECORD, OR OWNER'S AGENT.
 - A LISTING OF CERTIFIED ATT CAN BE FOUND AT <https://www.energy.ca.gov/programs-and-topics/programs/acceptance-test-technician-certification-provider-program/acceptance>
 - THE ACCEPTANCE TESTING PROCEDURES MUST BE REPEATED, AND DEFICIENCIES MUST BE CORRECTED BY THE BUILDER OR INSTALLING CONTRACTOR UNTIL THE CONSTRUCTION/INSTALLATION OF THE SPECIFIED SYSTEMS CONFORM AND PASS THE REQUIRED ACCEPTANCE CRITERIA.
 - PROJECT INSPECTORS WILL COLLECT THE FORMS TO CONFIRM THAT THE REQUIRED ACCEPTANCE TESTS HAVE BEEN COMPLETED.
- NEW BUILDINGS SHALL BE PROVIDED WITH EMERGENCY RESPONDER RADIO COVERAGE IN ACCORDANCE WITH CALIFORNIA FIRE CODE SECTION 510. THE PROJECT ARCHITECT (AOR) SHALL CONTACT THE LOCAL FIRE DEPARTMENT AND/OR EMERGENCY COMMUNICATIONS AUTHORITY TO OBTAIN DESIGN, EQUIPMENT SPECIFICATIONS, TESTING, AND ACCEPTANCE CRITERIA. PLANS AND REQUESTED DOCUMENTATION SHALL BE SUBMITTED TO THE LOCAL AUTHORITY HAVING JURISDICTION FOR REVIEW AND APPROVAL. UPON COMPLETION, COPIES OF THE APPROVED PLANS, EQUIPMENT DATA SHEETS, TESTING, AND ACCEPTANCE DOCUMENTATION SHALL BE PROVIDED TO THE SCHOOL DISTRICT.
- ONCE CONSTRUCTION BEGINS, THE CONTRACTOR SHALL VERIFY DESIGN, EQUIPMENT SPECIFICATIONS, TESTING, AND ACCEPTANCE CRITERIA FOR EMERGENCY RESPONDER RADIO COVERAGE WITH THE LOCAL FIRE DEPARTMENT AND/OR EMERGENCY COMMUNICATIONS AUTHORITY. THE CONTRACTOR SHALL FACILITATE ANY NECESSARY TESTING AND SYSTEM ENHANCEMENTS REQUIRED BY THE LOCAL AGENCY.

DEFERRED APPROVALS

NONE

PROJECT DESCRIPTION

CONSTRUCTION OF 4 PC SHADE STRUCTURES, ONE 20'x30', PC# 02-120865 AND TWO 14'x14', PC #04-120866. RELATED SITE, ELECTRICAL AND FIRE ALARM WORK.

DSA CERTIFICATION OF THE CURRENT PROJECT 01-XXXXXX IS CONTINGIENT UPON THE CERTIFICATION OF PROJECT 01-122726-0

SHEET INDEX

SHEET COUNT: 98

GENERAL

- G-0.1 COVER SHEET
G-0.2 APPREVIATIONS AND NOTES

G-0.4 ACCESS SITE PLAN

20' x 30' SHADE STRUCTURE PC# 02-120865

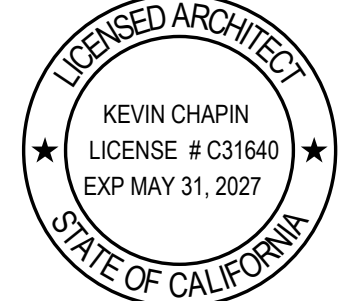
- S1 COVER SHEET AND NOTES
S2 ELEVATION DETAILS
S3 TYPICAL DETAILS
S4 REFERENCE DETAILS
S5 SPECIFICATION INFORMATION
S6 EXAMPLE FORM DSA 103 - TESTS & INSPECTIONS

14' x 14' SHADE STRUCTURE PC# 02-120866

- S1A COVER SHEET AND NOTES
S2A ELEVATION DETAILS
S3A TYPICAL DETAILS
S4A REFERENCE DETAILS
S5A SPECIFICATION INFORMATION
S6A EXAMPLE FORM DSA 103 - TESTS & INSPECTIONS



Main:
636 Fifth Street, Santa Rosa, CA 95404
East Bay:
55 Harrison Street, Suite 525,
Oakland, CA 94607
(707) 576-0829



SIGNED: OCTOBER 31, 2026

GATEWAY PROGRAM

SHADE STRUCTURES

929 SECOND STREET
BRENTWOOD, CA 94513

LIBERTY UNION HIGH
SCHOOL DISTRICT

DSA APP NO. 01-XXXXXX

ARCH PROJECT NO: 2497.00

DRAWN BY: ERF

DRAWING SCALE: N.T.S.

PTN: XXXXX-XX FILE NO: 7-H4

CONSTRUCTION DOCS

OCTOBER 31, 2026

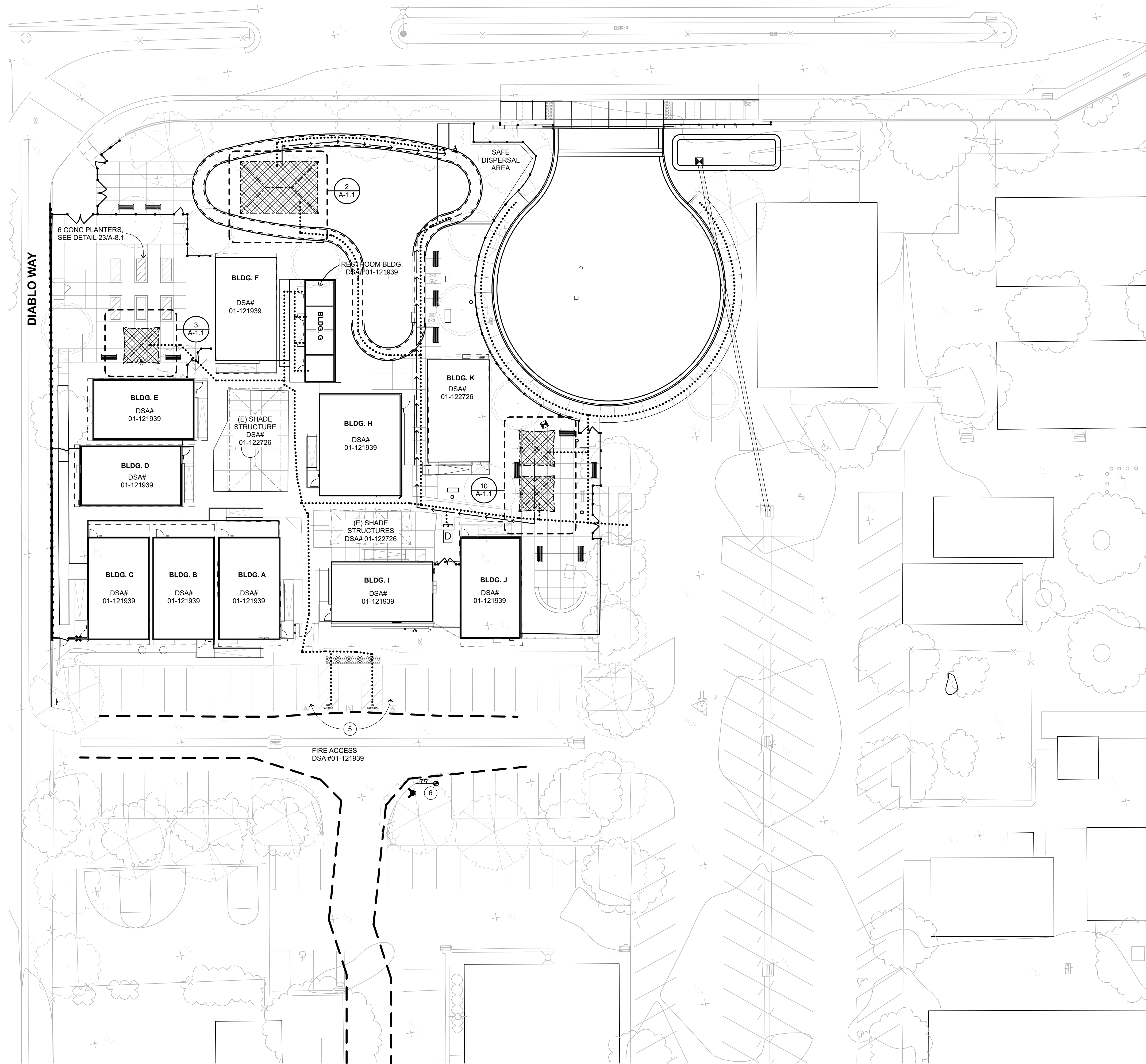
SHEET TITLE

ABBREVIATIONS AND NOTES

SHEET NUMBER

G-0.2

P:\2497.00 - Gateway Port and Shade Structure_LUHSD\Drawings\04-CD\2497.00 Gateway Shade Structures Add-On.pln:9/11/2026 3:21 PM



SITE ACCESS PLAN

1" = 20'

1

DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE STATEMENT
DSA PR 15-01

THE P.O.T. (ACCESSIBLE PATH OF TRAVEL) IDENTIFIED IN THESE CONSTRUCTION DOCUMENTS MEETS THE REQUIREMENTS OF THE CURRENT APPLICABLE CALIFORNIA BUILDING CODE (CBC) ACCESSIBILITY PROVISIONS FOR PATH OF TRAVEL REQUIREMENTS FOR ALTERATIONS, ADDITIONS AND STRUCTURAL REPAIRS. AS PART OF THE DESIGN OF THIS PROJECT, THE P.O.T. WAS EXAMINED AND ANY ELEMENTS, COMPONENTS OR PORTIONS OF THE P.O.T. THAT WERE DETERMINED TO BE NONCOMPLIANT WITH THE CBC HAVE BEEN IDENTIFIED AND 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 PORTIONS OF THE P.O.T. THAT WILL NOT BE CORRECTED BY THIS PROJECT BASED ON VALUATION THRESHOLD LIMITATIONS OR A FINDING OF UNREASONABLE HARDSHIP ARE INDICATED IN THESE CONSTRUCTION DOCUMENTS.

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

SITE PLAN GENERAL NOTES - ACCESS

THE ACCESSIBLE ROUTE (PATH OF TRAVEL) INDICATED HAS BEEN PROVIDED IN ACCORDANCE WITH IR 11B-10 AND SHALL COMPLY WITH THE FOLLOWING:

- 1:20 MAXIMUM SLOPE WITHOUT A RAMP HANDRAIL
- 1:48 MAXIMUM CROSS SLOPE
- NO ABRUPT VERTICAL CHANGES EXCEEDING 1/4". CHANGES BETWEEN 1/4" TO 1/2" VERTICAL CAN BE AT 1:2 MAX SLOPE. CHANGES LESS THAN 1/4" CAN BE VERTICAL.
- 48" MIN. CLEAR IN WIDTH (60" MIN PASSING SPACE EVERY 200 LINEAL FEET)
- NON-SLIP SURFACE - HEAVY BROOM FINISH AT EXTERIOR CONCRETE PAVING WHERE SLOPED >6%, MEDIUM BROOM FINISH AT SLOPES <6%
- MAINTAIN FREE OF OVERHANGING OBSTRUCTIONS TO 80" MIN
- PROTRUDING OBJECTS NOT GREATER THAN 4" SHALL BE MOUNTED BETWEEN 27" AND 80" A.F.F.
- WHERE A DRAIN INLET IS IN THE PATH OF TRAVEL, THE GRATE SHALL BE ORIENTED SO THAT MAX OPENING IS 1/2" & LONG DIM IS PERPENDICULAR TO THE PREDOMINANT DIRECTION OF PEDESTRIAN TRAVEL
- CONTRACTOR TO VERIFY THAT NO BELOW-GRADE PULL BOXES OCCUR WITHIN THE AREA OF TRUNCATED DOMES

PARKING AND PEDESTRIAN SITE SIGNAGE SHALL COMPLY WITH CBC SECTIONS 11B-502.6 11B-502.8 & 11B-703.7.2.1

BUILDING SIGNAGE SHALL COMPLY WITH CBC 11B-703

PEDESTRIAN GATES SHALL COMPLY WITH CBC 1010.2 & 11B-206.5

ARCHITECT SHALL VERIFY THERE ARE NO BARRIERS IN THE PATH OF TRAVEL

PARKING ANALYSIS

SEE SHEET G-03 FOR PARKING RATIOS

KEY NOTES

- 1 SHADE STRUCTURES PC 02-120865 & 02-120866
- 2 (E) STUDENT DROP OFF. DSA #01-121939
- 3 (E) TRUNCATED DOMES, DSA# 01-121939
- 4 ACCESSIBLE PARKING, DSA #01-121939
- 5 (E) FIRE HYDRANT
- 6 (E) PUBLIC SIDEWALK
- 7 (E) PARKING LOT TOW AWAY SIGNAGE
- 8 (E) ACCESSIBLE PARKING STALL, DSA
- 9 ACCESSIBLE PASSENGER DROP OFF AND LOADING ZONE

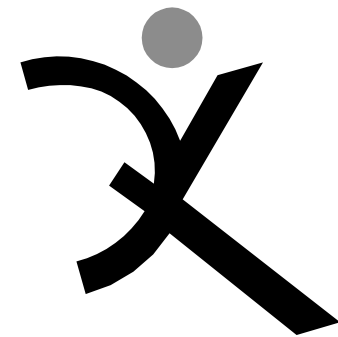
SITE PLAN LEGEND - ACCESS

- NEW SHADE STRUCTURES, PC#
- (E) BUILDING TO REMAIN
- FIRE ACCESS - DSA # 01-121939
- PATH OF EGRESS
- ACCESSIBLE PATH OF TRAVEL

FOR PROPERTY LINE, SEE G-0.3, PROPERTY LINE SITE PLAN

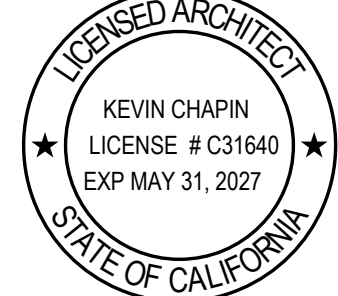
ACCESSIBILITY LEGEND

- ACCESSIBLE DRINKING FOUNTAIN DSA #01-121939
- ACCESSIBLE GENDER-NEUTRAL STAFF RESTROOM (SINGLE OCC) DSA #01-121939
- ACCESSIBLE GENDER NEUTRAL STUDENT RESTROOM (SINGLE OCC) DSA #01-121939
- PUBLIC BUS STOP



QUATTROCCHI KWOK
ARCHITECTS

Main:
636 Fifth Street, Santa Rosa, CA 95404
East Bay:
55 Harrison Street, Suite 525,
Oakland, CA 94607
(707) 576-0829



SIGNED: OCTOBER 31, 2026

GATEWAY
PROGRAM

SHADE
STRUCTURES

929 SECOND STREET
BRENTWOOD, CA 94513

LIBERTY UNION HIGH
SCHOOL DISTRICT

DSA APP NO. 01-XXXXXX

ARCH PROJECT NO: 2497.00

DRAWN BY: ERF

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

PTN: XXXXX-XX FILE NO: 7-H4

CONSTRUCTION DOCS

OCTOBER 31, 2026

SHEET TITLE

ACCESS SITE
PLAN

SHEET NUMBER

G-0.4

APPLICABLE CODES AND STANDARDS

2022 California Administrative Code (CAC), Part 1, Title 24 CCR*
2022 California Building Code (CBC), Part 2, Title 24 CCR
(2021 International Building Code, Vol. 1 & 2, and 2022 California amendments)
2022 California Electrical Code (CEC), Part 3, Title 24 CCR
(2020 National Electrical Code and 2022 California Amendments)
2022 California Mechanical Code (CMC), Part 4, Title 24 CCR
(2021 IAPMO Uniform Mechanical Code and 2022 California amendments)
2022 California Plumbing Code (CPC), Part 5, Title 24 CCR
(2021 IAPMO Uniform Plumbing Code and 2022 California amendments)
2022 California Energy Code (CEC), Part 6, Title 24 CCR
2022 California Fire Code (CFC), Part 9, Title 24 CCR
(2021 International Fire Code and 2022 California Amendments)
2022 California Existing Building Code (CEBC), Part 10, Title 24 CCR
(2021 International Existing Building Code and 2022 California Amendments)
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
2019 ASME A17.1/CSA B44-13 Safety Code for Elevators and Escalators (per 2022 CBC Part 2 Ch 35)
Note: Cal/OSHA Elevator Unit enforces CCR Title 8 and uses the 2004 ASME A17.1 by adoption
NFPA 13 (2022) - Standard for the Installation of Sprinkler Systems (CA amended)
NFPA 14 (2019) - Standard for the Installation of Standpipe and Hose Systems (CA amended)
NFPA 17 (2021) - Standard for Dry Chemical Extinguishing Systems
NFPA 17A (2021) - Standard for Wet Chemical Extinguishing Systems
NFPA 20 (2019) - Standard for the Installation of Stationary Pumps for Fire Protection
NFPA 22 (2018) - Standard for Water Tanks for Private Fire Protection
NFPA 24 (2019) - Standard for the Installation of Private Fire Service Mains and Their Appurtenances (CA amended)
NFPA 72 (2022) - National Fire Alarm and Signaling Code (CA amended)
NFPA 80 (2019) - Standard for Fire Doors and Other Opening Protectives
NFPA 2001 (2018) - Standard on Clean Agent Fire Extinguishing Systems (CA amended)
UL 300 (2005, R2010) - Standard for Fire Testing of Fire Extinguishing Systems for Protection of Commercial Cooking Equipment
UL 464 (2003) - Audible Signaling Devices for Fire Alarm and Signaling Systems, Including Accessories
UL 521 (1999) - Standard for Heat Detectors for Fire Protective Signaling Systems
UL 1971 (2002, R2010) - Standard for Signaling Devices for the Hearing Impaired
ICC 300 (2017) - Standard for Bleachers, Folding and Telescopic Seating, and Grandstands

ABBREVIATIONS & SYMBOLS

A	AREA	S	SECTION	MODULOUS
DIM.	DIMENSION	SHT.	SHEET	
EA.	EACH	SIM.	SIMILAR	
EXT.	EXTERIOR	SO.	SQUARE	
FT.	FOOT OR FEET	Std.	STANDARD	
GA	GAGE	STRUC.	STRUCTURAL	
INSP.	INSPECTIONS	SYM.	SYMMETRICAL	
INT.	INTERIOR	t	THICKNESS	
KSI	KIPS PER SQUARE INCH	TYP.	TYPICAL	
L	MOMENT OF INERTIA	U.O.N.	UNLESS OTHERWISE NOTED	
LB	POUND	xS	EXTRA STRONG	
MAX.	MAXIMUM	Ø	DIAMETER	
MIN.	MINIMUM	#	NUMBER	
NA	NOT APPLICABLE	<	LESS THAN	
NO.	NUMBER	>	GREATER THAN	
OZ.	OUNCES	≤	LESS THAN OR EQUAL TO	
PL	PLATE	≥	GREATER THAN OR EQUAL TO	
PSF	POUND PER SQUARE FOOT			

DESIGN CRITERIA

1. VERTICAL LOADS

1.A. CANOPY LIVE LOAD = 5 psf (NON-REDUCIBLE)

1.B. CANVAS DEAD LOAD = 0.069 psf

1.C. SUPERIMPOSED LOAD = 0.5 psf (TEMPORARY LOAD)

1.D. LIVE LOAD = 5 psf

1.E. GROUND SNOW LOAD = 0 psf

2. LATERAL LOADS

2.A. WIND (ASCE/SEI 7-16 DIRECTIONAL PROCEDURE)

ULTIMATE DESIGN WIND SPEED: V_{ULT} = 110 mph

NOMINAL DESIGN WIND SPEED: V_{SD} = 85 mph

EXPOSURE CATEGORY = "C"

RISK CATEGORY = II

CLASSIFICATION: OPEN STRUCTURE (CLEAR WIND FLOW), K_{zt} = 1.0

WIND VELOCITY PRESSURE: q_h = 0.00256 K_e K_{zt} K_d V² = 22.38 psf

NOTE: WIND IS BASED ON OPEN STRUCTURE WITH CLEAR WIND FLOW

2.B. EARTHQUAKE (EQUIVALENT LATERAL FORCE PROCEDURE)

MAPPED SPECTRAL RESPONSE ACCELERATIONS, S_s = 2.500, S_i = 0.750

SITE CLASS = "D". UNLESS A SITE-SPECIFIC GROUND MOTION HAZARD ANALYSIS IS PERFORMED, THE S_{MS} VALUE INCREASED BY 50% SHALL BE LESS THAN THE DESIGN CRITERIA STATED HEREIN

RISK CATEGORY = II

SEISMIC DESIGN CATEGORY (SDC) = "E"

ORDINARY STEEL CANTILEVERED COLUMN SYSTEM

SPECTRAL RESPONSE COEFFICIENTS, Fa = 1.2, Fv = 1.7, S_{D5} = 2.0, S_{D1} = 0.850

REDUNDANCY FACTOR: FOR HIP STYLE ρ = 1.0, FOR UMBRELLA STYLE ρ = 1.3

IMPORTANCE FACTOR: I_e = 1.0

OVERSTRENGTH FACTOR: Ω_p = 1.25

RESPONSE MODIFICATION FACTOR, R = 1.25

SEISMIC RESPONSE COEFFICIENT, C_s = 1.6

SEISMIC BASE SHEAR, V = 1.6W (STRENGTH LEVEL)

MAXIMUM FUNDAMENTAL PERIOD OF STRUCTURE: 0.25 seconds

HORIZONTAL OR VERTICAL IRREGULARITY: NONE

3. ULTIMATE REACTION LOADS (MAX. LOADS)

3.A. HIP SHADE (PER COLUMN)

DEAD: 0.57 k

LIVE: 1.84 k

WIND (LRFD):

2.2 k (DOWN)

1.1 k (UPLIFT)

7.6 k (HORIZONTAL)

89.9 k-ft (MAX. MOMENT)

SEISMIC(LRFD):

0.83 k (HORIZONTAL)

9.9 k-ft (MAX. MOMENT)

3.B. UMBRELLA SHADE (PER COLUMN)

DEAD: 1.04 k

LIVE: 2.81 k

WIND (LRFD):

4.87 k (DOWN)

3.24 k (UPLIFT)

3.3 k (HORIZONTAL)

27.6 k-ft (MAX. MOMENT)

SEISMIC (LRFD):

1.64 k (HORIZONTAL)

19.68 k-ft (MAX. MOMENT)

4. PIER FRICTION RESISTANCE

PIER FRICTION COEFFICIENT: μ = 0.3

MAXIMUM PIER FRICTION RESISTANCE: f = 28 k

5. MINIMUM CLEARANCES

5.A. AS PER IR PC-4 5.4.5: THE MINIMUM CLEARANCE REQUIRED BETWEEN DRILLED PIERS WHEN PLACING MULTIPLE CANOPIES IS: 8' x PIER DIAMETER (16', 20', OR 24' FROM PIER TO PIER).

5.B. THE MINIMUM SEISMIC SEPARATION BETWEEN ADJACENT SHADE STRUCTURES IS 4 INCHES.

GENERAL NOTES

1. MATERIAL SPECIFICATIONS

1.A.

SOIL (NO SOIL REPORT PROVIDED): SOIL BEARING PRESSURE = 1500 PSF AT 24" BELOW THE LOWEST GRADE. LATERAL BEARING PRESSURE = 200 PSF/FT (CLASS 5), INCREASED PER CBC SECTION 1806A.3.4. A SITE-SPECIFIC GEOTECHNICAL REPORT IS REQUIRED AT THE TIME OF SITE APPLICATION WHEN USING LOAD-BEARING VALUES ABOVE THE STATED MAXIMUMS FOR CLASS 5 SOIL. ALLOWABLE PIER FRICTIONAL UPLIFT CAPACITY = 250 PSF. 1/3 INCREASE FOR SHORT TERM LOADS IS NOT ALLOWED.

1.B.

CONCRETE: f_c = 4,500 psi MIN. @ 28 DAYS (SPECIAL INSPECTION REQUIRED). CONCRETE SHALL BE MADE WITH TYPE V CEMENT, PLUS POZZOLAN OR SLAG CEMENT COMPLYING WITH FOOTNOTE 7 OF ACI 318 TABLE 19.3.2.1, WITH A WATER TO CEMENT RATIO NOT MORE THAN 0.45. SITE-SPECIFIC GEOTECHNICAL REPORT MUST BE PROVIDED IF A LOWER f_c IS DESIRED. APPLICABLE EXPOSURE LEVELS = S2. CONCRETE EXPOSED TO FREEZING-AND-THAWING CYCLES SHALL BE AIR ENTRAINED PER ACI 318 SECTION 19.3.3. ADMIXTURES CONTAINING CALCIUM AND CHLORIDE ARE PROHIBITED.

1.C.

REINFORCING STEEL: ASTM A615, GRADE 60, EXCEPT STIRRUPS AND TIES SHALL BE GRADE 40.

1.D.

PLATE STEEL: ASTM A36, F_y = 36ksi

1.E.

SCHEDULE PIPE: ASTM A500 GRADE B&C, F_y = 46 ksi

1.F.

STRUCTURAL TUBES: ASTM A500 GRADE B, Ø<3" F_y = 50 ksi, Ø≥3" 46 ksi. CORROSION PROTECTION SHALL BE TRIPLE COATED FLO-COAT® HOT-DIP GALVANIZED IN ACCORDANCE WITH ASTM A 1057/A1057M.

1.G.

MACHINED BOLTS: ASTM F593C/304 OR F593D/304 (LOCK NUTS ARE REQUIRED).

1.H.

LOCK NUTS: ASTM F594; ASME B18.16.6

1.I.

SELF-TAP SCREWS: AISI 4150 SS

1.J.

ANCHOR BOLTS: ASTM F1554 GRADE 36 MINIMUM

1.K.

ANCHOR NUTS: ASTM A663

1.L.

CABLE STEEL: 7x19 OR 8x36 CLASS IWRC (TYPICALLY REFERRED TO AS AIRCRAFT CABLE), CABLE SHALL BE AISI 304 STAINLESS STEEL, ASTM A240.

NOMINAL CABLE STRENGTH FOR 3/16"Ø F_u = 3.7k, 1/4"Ø F_u = 6.4k, 5/16"Ø F_u = 9k, 3/8"Ø F_u = 12k, 7/16"Ø F_u = 16.3k.

ALLOWABLE STRENGTH FOR 3/16"Ø S_a = 1.23k, 1/4"Ø S_a = 2.18k, 5/16"Ø S_a = 3.07k, 3/8"Ø S_a = 4.09k, 7/16"Ø S_a = 6.3k.

MIN. PRETENSION FORCE ON 1/4"Ø = 0.10k, ON 5/16"Ø = 0.15k, ON 3/8" = 0.20k, ON 7/16"Ø = 0.25k.

MAX. PRETENSION FORCE ON 1/4"Ø = 0.15k, ON 5/16"Ø = 0.23k, ON 3/8"Ø = 0.30k, ON 7/16"Ø = 0.35k.

WELDING ELECTRODES SHALL BE GMAW / SEMI-AUTOMATIC, GRADE ERTOS-6 PER AWS A5.18

GROUT: NON-SHRINK, NON-METALLIC GROUT, SHALL MEET ASTM C1107, MIN. F_c = 5,000 psi.

EXPOSED STEEL FASTENERS: ALL EXPOSED STEEL FASTENERS, INCLUDING CAST-IN-PLACE ANCHOR BOLTS/RODS, SHALL BE STAINLESS STEEL (TYPE 304 MINIMUM), OR HOT-DIP GALVANIZED (ASTM A153, CLASS D MINIMUM OR ASTM F2329 OR ASTM A325 HIGH STRENGTH)

2. WELDING

2.A.

WORKMANSHIP AND TECHNIQUE OF WELDING ARE TO CONFORM TO THE 2022 C.B.C. SECTION 2204A.1. ALL WELDS SHALL BE INSPECTED IN ACCORDANCE WITH THE APPLICABLE REQUIREMENTS OF THE 2022 C.B.C. CHAPTER 17A, SECTION 1705A.2.5

3. CABLE CLIPS & TURNBUCKLES

3.A.

CABLE CLIPS SHALL BE FORGED STEEL PER FEDERAL SPECIFICATION FF-C-450 TYPE 1, CLASS 1 INSTALLED WITH THE U-BOLT ON THE CABLE DEAD END (SEE SPECIFICATION SHEET ON FINAL SHEET OF THIS SUBMITTAL). CABLE CLIPS WILL DEVELOP THE ALLOWABLE STRENGTH OF THE CABLE WHEN PROPER QUANTITY AND BOLT TORQUE IS USED.

3.B.

3/16"Ø CABLE REQUIRES A MINIMUM OF 3 CLIPS, 1/4"Ø CABLE REQUIRES A MINIMUM OF 3 CLIPS, 5/16"Ø CABLE REQUIRES A MINIMUM OF 3 CLIPS, 3/8"Ø CABLE REQUIRES A MINIMUM OF 3 CLIPS, AND 7/16"Ø CABLE REQUIRES A MINIMUM OF 4 CLIPS.

3.C.

BOLT TORQUE FOR 3/16" Ø CABLE CLIPS = 7 lb-ft, FOR 1/4"Ø CABLE CLIPS = 15 lb-ft, FOR 5/16"Ø CABLE CLIPS = 30lb-ft, FOR 3/8"Ø CABLE CLIPS = 45lb-ft, FOR 7/16"Ø CABLE CLIPS = 65lb-ft

3.D.

TURNBUCKLES SHALL BE AISI 316 STAINLESS STEEL. ALLOWABLE STRENGTH FOR 1/2"Ø S_a = 1.54k, 5/8"Ø S_a = 2.46k, FOR 3/4"Ø S_a = 3.52k.

4. BOLT HOLES

4.A.

ANCHOR BOLT HOLE DIAMETERS SHALL BE 1/8" LARGER THAN THE BOLT DIAMETER. ALL OTHER CONNECTION BOLT HOLE DIAMETERS SHALL BE 1/16" LARGER THAN THE BOLT DIAMETER

5. CORROSION PROTECTION

5.A.

ALL STEEL MEMBERS (U.N.O.) SHALL BE POWDER COATED WITH A ZINC RICH PRIMER AND TGIC POLYESTER TOP COAT MEETING ASTM B117, ASTM D2247, AND ASTM D4587-05

6. FABRIC MATERIAL

6.A.

FABRIC MATERIAL SHALL BE COMMERCIAL NINETYFIVE 340 FR FABRIC

6.B.

MAXIMUM MODULUS OF ELASTICITY = 657 LB/IN PER FABRIC THICKNESS

6.C.

THE FABRIC SHALL BE MANUFACTURED FROM HIGH DENSITY POLYETHYLENE POLYMER

6.D.

NOMINAL WEIGHT = 10 oz/yd²

6.E.

MIN. ULTIMATE BREAKING STRENGTH PER ASTM D 5034: WARP = 158.6 lbs, WEFT = 412.3 lbs

6.F.

MAX. ELONGATION: WARP = 49%, WEFT = 89%

6.G.

MIN. ULTIMATE TEAR STRENGTH PER ASTM D 2261: WARP = 43.0 lbf, WEFT =39.6 lbf

6.H.

ALLOWABLE STRENGTH OF SEAMS: 67.3 lb/in

6.I.

FIRE RETARDANT RATING PER CSFM - TITLE 19, (LICENSE # : F-037801).

6.J.

FABRIC SHADE STRUCTURES SHALL COMPLY WITH THE APPLICABLE PROVISIONS OF CBC SECTION 3102 AND 3105

6.K.

FABRIC MATERIAL SHALL COMPLY WITH CBC SECTIONS 3102.3.1, 3105.3, AND CCR, TITLE 19, DIVISION 1, CHAPTER 8

7. QUALITY CONTROL

7.A.

QUALITY CONTROL PERFORMED BY THE SUPPLIER SHALL INCLUDE VISUAL AND/OR INSTRUMENTED VERIFICATION OF THE FOLLOWING ASPECTS, IF APPLICABLE: MATERIAL TRACEABILITY, WELD QUALITY, DIMENSIONAL ACCURACY, COATINGS, ASSEMBLY, PACKING, AND SHIPPING.

7.B.

ALL MANUFACTURER PERSONNEL SHALL RECEIVE TRAINING AS MANDATED BY SUPERIOR RECREATIONAL PRODUCTS. QUALITY PERSONNEL WILL BE CONTINUALLY TRAINED, INCLUDING PROCESS AUDITS THROUGHOUT THE PRODUCT REALIZATION. QUALITY ASSURANCE AUDITS SHALL BE PERFORMED UNDER THE DIRECT SUPERVISION OF AN SRP AND LABDS CERTIFIED INSPECTOR.

7.C.

ALL WELDED STEEL PRODUCTS SHALL RECEIVE QUALITY ASSURANCE AUDITS AFTER WELDING TO ENSURE DIMENSIONAL ACCURACY AND WELD QUALITY. PAINTED STEEL PRODUCTS SHALL RECEIVE RANDOM QUALITY ASSURANCE AUDITS USING A FILM THICKNESS GAUGE 250 TIMES PER DAY ON PRIMER COAT AND 250 PER DAY ON TOP COAT TO ENSURE PROPER COATING THICKNESS.

7.D.

STANDARDS FOR EXECUTION OF THE WORK SHALL FOLLOW SUPERIOR RECREATIONAL PRODUCTS' WORK INSTRUCTIONS, QUALITY PROCEDURES, AND DSA APPROVED SEALED DRAWINGS. MANUFACTURER SHALL ADHERE TO DIMENSIONAL TOLERANCES AS SPECIFIED ON APPLICABLE DRAWINGS AND DOCUMENTATION.

8. STANDARD NOTES

8.A.

ALL WORK SHALL CONFORM TO 2022 EDITION TITLE 24, CALIFORNIA CODE OF REGULATIONS (CCR)

8.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

8.C.

A "DSA CERTIFIED" PROJECT INSPECTOR EMPLOYED BY THE DISTRICT (OWNER) AND APPROVED BY DSA SHALL PROVIDE CONTINUOUS INSPECTION OF THE WORK. THE DUTIES OF THE INSPECTOR ARE DEFINED IN SECTION 4-342, PART 1, TITLE 24, CCR

8.D.

A DSA ACCEPTED TESTING LABORATORY DIRECTLY EMPLOYED BY THE DISTRICT (OWNER) SHALL CONDUCT ALL THE REQUIRED TESTS AND INSPECTIONS FOR THE PROJECT

8.E.

SUBSTITUTIONS AFFECTING DSA REGULATED ITEMS SHALL BE CONSIDERED AS A CONSTRUCTION CHANGE DOCUMENT OR ADDENDUM, AND SHALL BE APPROVED BY DSA PRIOR TO FABRICATION AND INSTALLATION PER DSA IR A-6 AND SECTION 338(C) PART 1, TITLE 24 CCR.

8.F.

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 TITLE 24, 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 BEFORE PROCEEDING WITH THE WORK. (SECTION 4-317(c), PART 1, TITLE 24, CCR)

8.G.

GRADING PLANS, DRAINAGE IMPROVEMENTS, ROAD AND ACCESS REQUIREMENTS AND ENVIRONMENTAL HEALTH CONSIDERATIONS SHALL COMPLY WITH ALL LOCAL ORDINANCES.

8.H.

AS PER IR PC-4 1.7: FLOOD ZONE: DESIGN SHALL COMPLY WITH CBC SECTION 1612A AND PROCEDURE PR 14-01: FLOOD DESIGN AND PROJECT SUBMITTAL REQUIREMENTS. WHEN A SITE-SPECIFIC PROJECT IS LOCATED IN A FLOOD ZONE OTHER THAN ZONE X A LETTER STAMPED AND SIGNED FROM A GEOTECHNICAL ENGINEER IS NEEDED TO VALIDATE THE ALLOWABLE SOIL VALUES SPECIFIED IN THE PC ARE STILL APPLICABLE.

8.I.

AS PER IR PC-4 1.8: GEOHAZARD REPORTS: GEOHAZARD REPORTS ARE NOT REQUIRED FOR OPEN FABRIC SHADE STRUCTURES 1,600 SQUARE FEET (SQ. FT.) OR LESS COMPLYING WITH THE REQUIREMENTS OF IR A-4: GEOHAZARD REPORT REQUIREMENTS, SECTION 3.1.1. OPEN FABRIC SHADE STRUCTURES GREATER THAN 1,600 SQ. FT. UP TO A MAXIMUM OF 4,000 SQ. FT. AND COMPLYING WITH THE REQUIREMENTS NOTED IN IR A-4 SECTION 3.1.1 DO NOT REQUIRE A GEOHAZARD REPORT PROVIDED A GEOTECHNICAL REPORT INDICATES THAT NO LIQUEFACTION POTENTIAL EXISTS.

8.J.

AS PER IR PC-4 5.4.5: THE MINIMUM CLEARANCE REQUIRED BETWEEN DRILLED PIERS WHEN PLACING MULTIPLE CANOPIES IS: 8 x PIER DIAMETER (16', 20', OR 24' FROM PIER TO PIER).

8.K.

THE MINIMUM SEISMIC SEPARATION BETWEEN ADJACENT SHADE STRUCTURES IS 4 INCHES.

8.L.

AS PER IR PC-4 5.7: PIER & SHADE COLUMNS MAY BE COMBINED WITHIN THE SAME SHADE STRUCTURE IF ALL COLUMNS IN THE SHADE STRUCTURE HAVE THE SAME HEIGHT.

8.M.

SHADE STRUCTURE APPROVAL FOR WILDLAND-URBAN INTERFACE PER CBC 7A TO BE FIELD VERIFIED. THIS PC HAS NOT BEEN APPROVED FOR USE IN A FIRE HAZARD SEVERITY ZONE PER CBC CHAPTER 7A.

8.N.

MINIMUM SETBACK LIMIT FOR THE SHADE STRUCTURES AS PER FIGURE 1:

INDEX (Sheet Count: 5)

#

Drawing Title

S1

COVER SHEET AND NOTES

S2

ELEVATION DETAILS

S3

TYPICAL DETAILS

S4

REFERENCE TABLES

S5

SPECIFICATION INFORMATION

S6

EXAMPLE FORM DSA 103 - TESTS & INSPECTIONS

DESIGN PARAMETER CHECKLIST FOR OVER-THE-COUNTER REVIEW

THE FOLLOWING CHECKLIST IS INTENDED TO ASSIST THE PLAN REVIEWER DETERMINE IF THIS PRE-CHECKED SUBMITTAL IS APPLICABLE TO THE SITE-SPECIFIC CONDITIONS IN WHICH IT IS INTENDED TO BE USED. IF THIS CHECKLIST CANNOT BE COMPLETED, ADDITIONAL ENGINEERING PROVING SITE-SPECIFIC COMPLIANCE IS REQUIRED.

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

☐ THE CONSTRUCTION TYPE IS "IIB"

☐ THE RISK CATEGORY IS "II" OR LESS

☐ THE WIND EXPOSURE CATEGORY IS "C" OR LESS

☐ THE SOIL CLASS IS "D" OR BETTER

☐ THE PROJECT SITE BASIC ULTIMATE WIND SPEED IS ≤ 110 mph

☐ THE PROJECT SITE SEISMIC DESIGN CATEGORY IS "E" OR LESS

☐ THE PROJECT SITE IS NOT IN A FLOOD ZONE (WHEN A SITE-SPECIFIC PROJECT IS LOCATED IN A FLOOD ZONE OTHER THAN ZONE X A LETTER STAMPED AND SIGNED FROM GEOTECHNICAL ENGINEER IS NEEDED TO VALIDATE THE ALLOWABLE SOIL VALUES SPECIFIED IN PC ARE STILL APPLICABLE)

☐ THE PROJECT SITE IS NOT IN AN AREA CLASSIFIED AS A WILD LAND URBAN INTERFACE FIRE AREA (A FIRE HAZARD SEVERITY ZONE)

☐ NONE OF THE MAXIMUM DESIGN CRITERIA ARE EXCEEDED

☐ ALLOWABLE SOIL COMPRESSIVE STRENGTH IS 1,500 psf OR GREATER

☐ LATERAL BEARING PRESSURE SHALL BE 200 PSF/FT (INCREASED PER CBC SECTION 1806A.3.4) OR GREATER

☐ PIER FRICTIONAL RESISTANCE SHALL BE LARGER THAN USED IN DESIGN

☐ IF THE CANOPY SIZE IS < 1,600 ft² IN AREA, COMPLYING WITH THE REQUIREMENTS OF DSA IR A-4 SECTION 3.1.1, SUPPORTED ON ALL CORNERS (3 COLUMNS MINIMUM), A SITE-SPECIFIC GEOHAZARD REPORT IS NOT REQUIRED -OR-

☐ IF THE CANOPY SIZE IS < 4,000 ft² IN AREA AND THERE IS A GEOTECHNICAL REPORT PROVING THAT NO POTENTIAL FOR LIQUEFACTION EXISTS, A SITE-SPECIFIC GEOHAZARD REPORT IS NOT REQUIRED

☐ THE CANOPY SIZE PROVIDES THE MINIMUM REQUIRED AREA FOR THE SELECTED ASSEMBLY USE AND DESIRED OCCUPANCY LOAD (SEE ASSEMBLY USE SELECTION CHECKLIST)

OCCUPANCY USE SELECTION CHECKLIST

THE FOLLOWING CHECKLIST IS TO BE USED BY THE PARTY SUBMITTING THIS PRE-CHECK TO INDICATE THE INTENDED OCCUPANCY USE FOR THIS FABRIC CANOPY.

☐ ASSEMBLY GROUP A-2

☐ ASSEMBLY GROUP A-3

☐ BUSINESS GROUP B

☐ EDUCATIONAL GROUP E

INTENDED OCCUPANCY LOAD _____ PERSONS

SITE-SPECIFIC CODE ANALYSIS

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

TYPE OF CONSTRUCTION: TYPE IIB

FIRE SPRINKLER: NO

ALLOWABLE AREA = _____ ft²

CODE ANALYSIS

OCCUPANCY GROUP

OCCUPANT LOAD FACTOR

TOTAL OCCUPANT LOAD

SHADE STRUCTURE AREA (ft²)

NOTE: THE INTENDED USE AND OCCUPANCY TO BE SPECIFIED ON SITE-SPECIFIC APPLICATION DRAWINGS.

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 FABRIC CANOPY SUBMITTAL. SELECT ONE STYLE/SIZE AND ONE HEIGHT.

NOTES:

1. HEIGHT OPTIONS ARE FROM 9FT TO 12FT.

2. INTERMEDIATE SIZES MAY USE THE MEMBER SIZES OF THE NEXT LARGEST CANOPY WITH AN IDENTICAL WIDTH TO LENGTH RATIO.

HIP STYLE SIZE

☐ 10' x 20'

☐ 15' x 20'

☐ 18' x 36'

☐ 20' x 20'

☐ 20' x 30'

☒ 20' x 40'

☐ 25' x 25'

☐ 25' x 30'

☐ 30' x 30'

☐ 30' x 40'

HEIGHT

☐ 9'

☒ 10'

☐ 12'

UMBRELLA STYLE SIZE

☐ 12'

☐ 26'

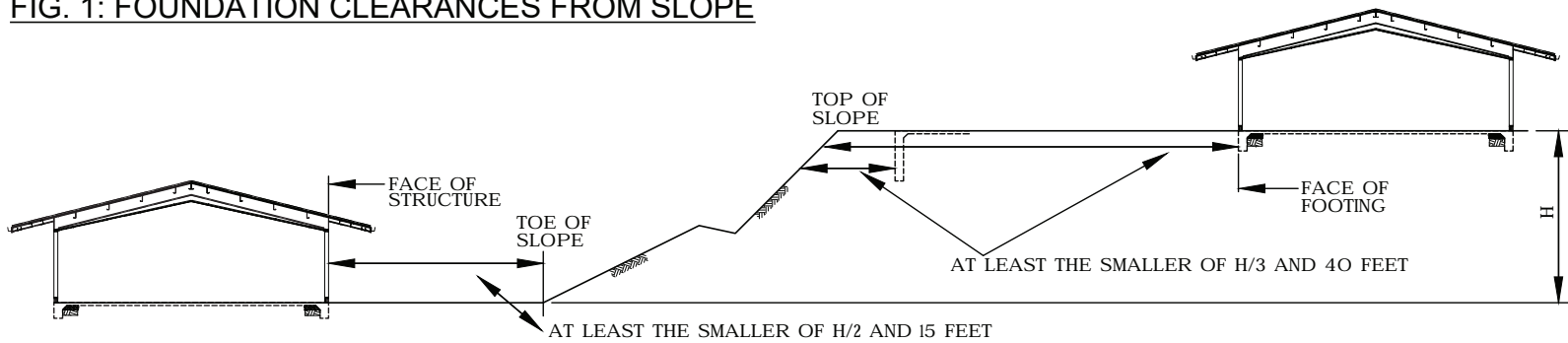
HEIGHT

☐ 9'

☐ 10'

☐ 12'

FIG. 1: FOUNDATION CLEARANCES FROM SLOPE



SEALED

8/16/23

THISSONG ZHAO

S 6814

REGISTERED PROFESSIONAL ENGINEER

STATE OF CALIFORNIA

STRUCTURAL

DSA IDENTIFICATION STAMP

SUPERIOR

RECREATIONAL PRODUCTS

Shade

SUPERIOR SHADE

150 Adamson Industrial Blvd.

Carrollton, GA 30117

FABRIC CANOPIES DSA PC - BP COVER SHEET

COPYRIGHT:
THIS PLAN/DRAWING IS THE EXCLUSIVE PROPERTY OF THE MANUFACTURER AND MAY NOT BE USED OR REPRODUCED WHOLE OR IN PART WITHOUT THE WRITTEN PERMISSION FROM THE MANUFACTURER.

PC IDENTIFICATION STAMP

PRE-CHECK (PC) DOCUMENT

CODE: 2022 CBC

A separate project application for construction is required

IDENTIFICATION STAMP

DIV. OF THE STATE ARCHITECT

APP:02-120923 PC

REVIEWED FOR

SS ☒ FLS ☒ ACS ☒ CG ☐

DATE: 9/21/2023

SITE PROJECT NAME:

DISTRICT/OWNER:

LOCATION/ADDRESS:

Revisions

Date:

By:

0

12/18/2022

KJK

1

8/16/2023

KJK

Drawn:

KJK

Date:

12/8/2022

Chkd:

Zhisong Zhao

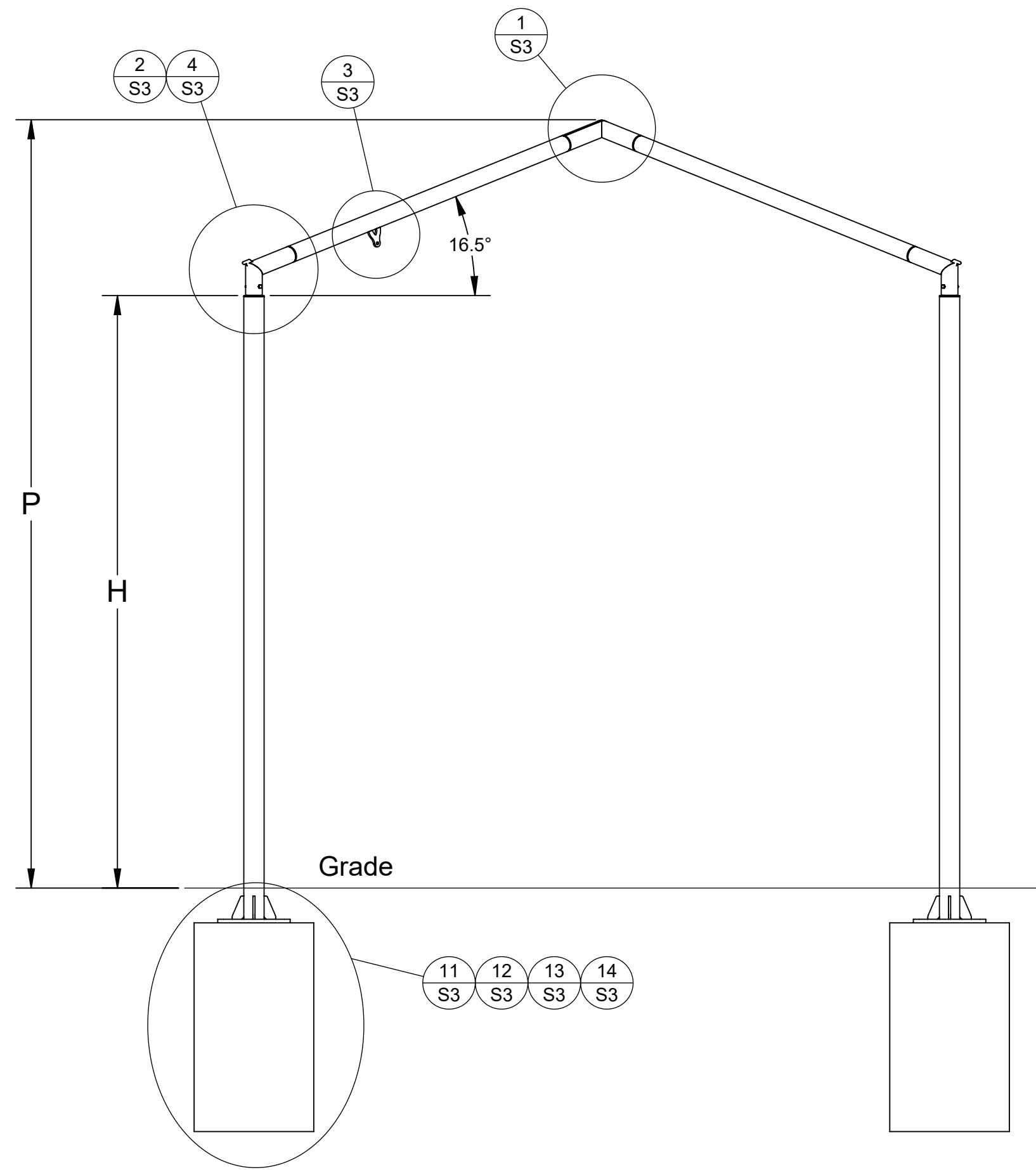
Date:

1/19/2023

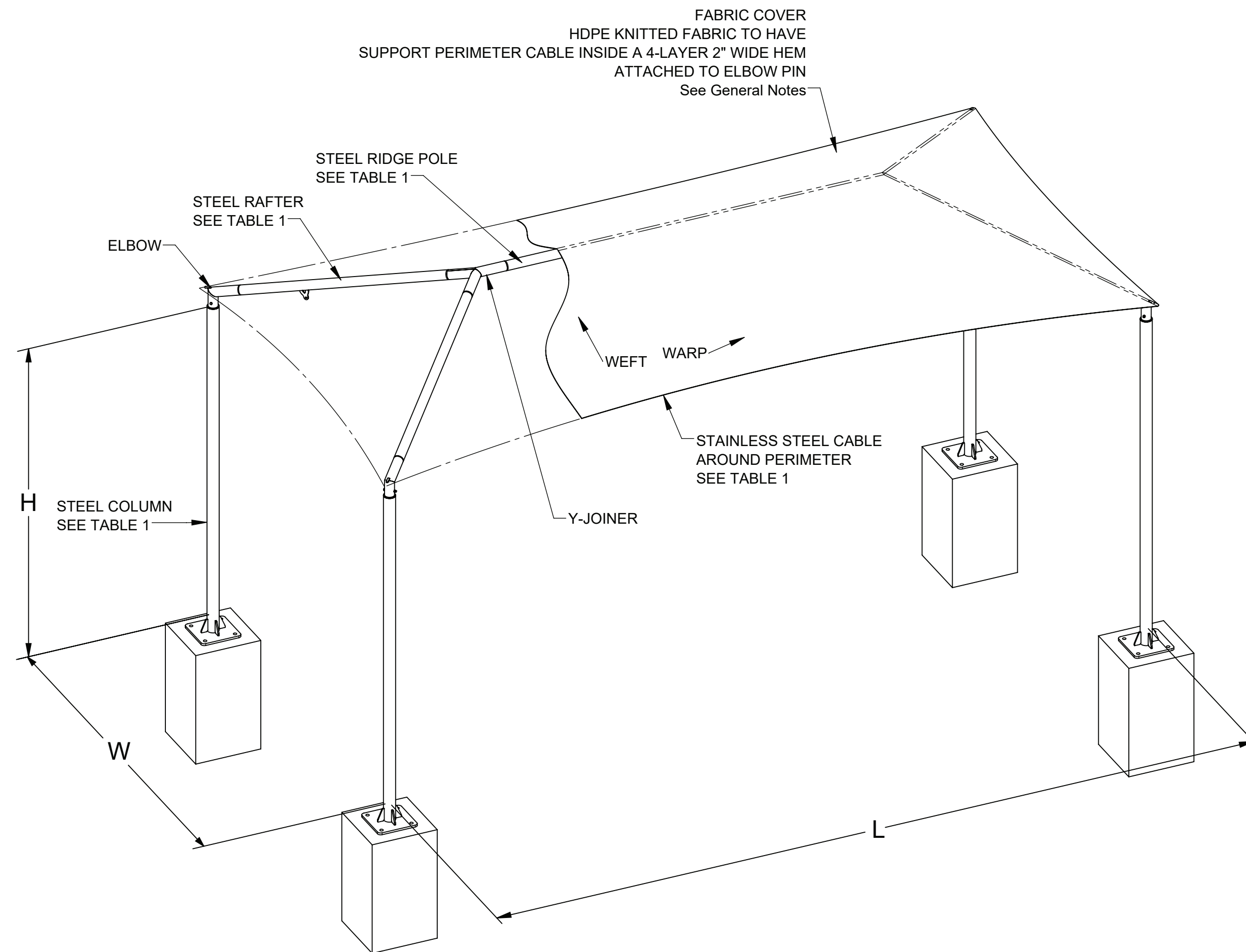
Job Number:

S1

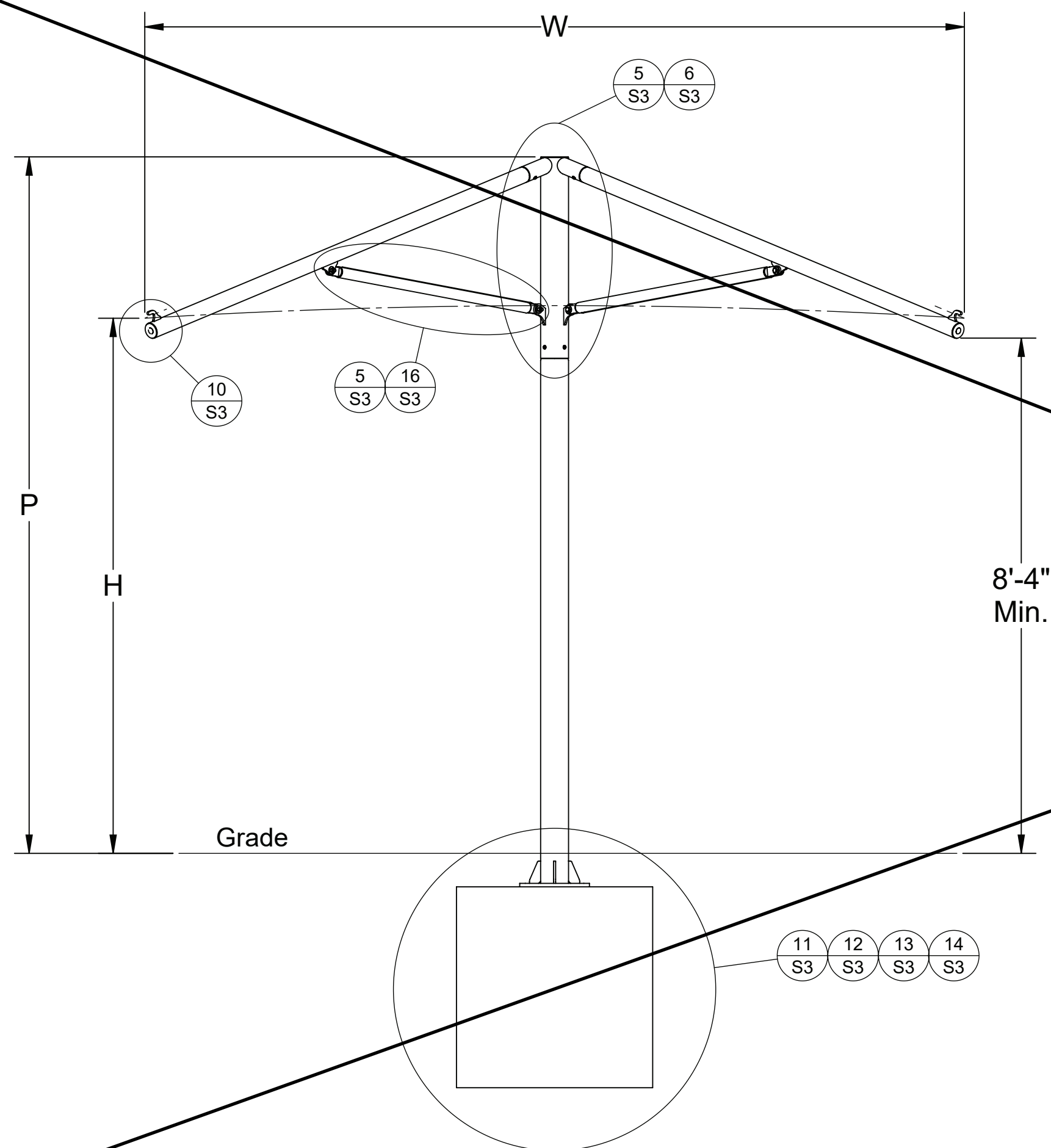
Sheet No.



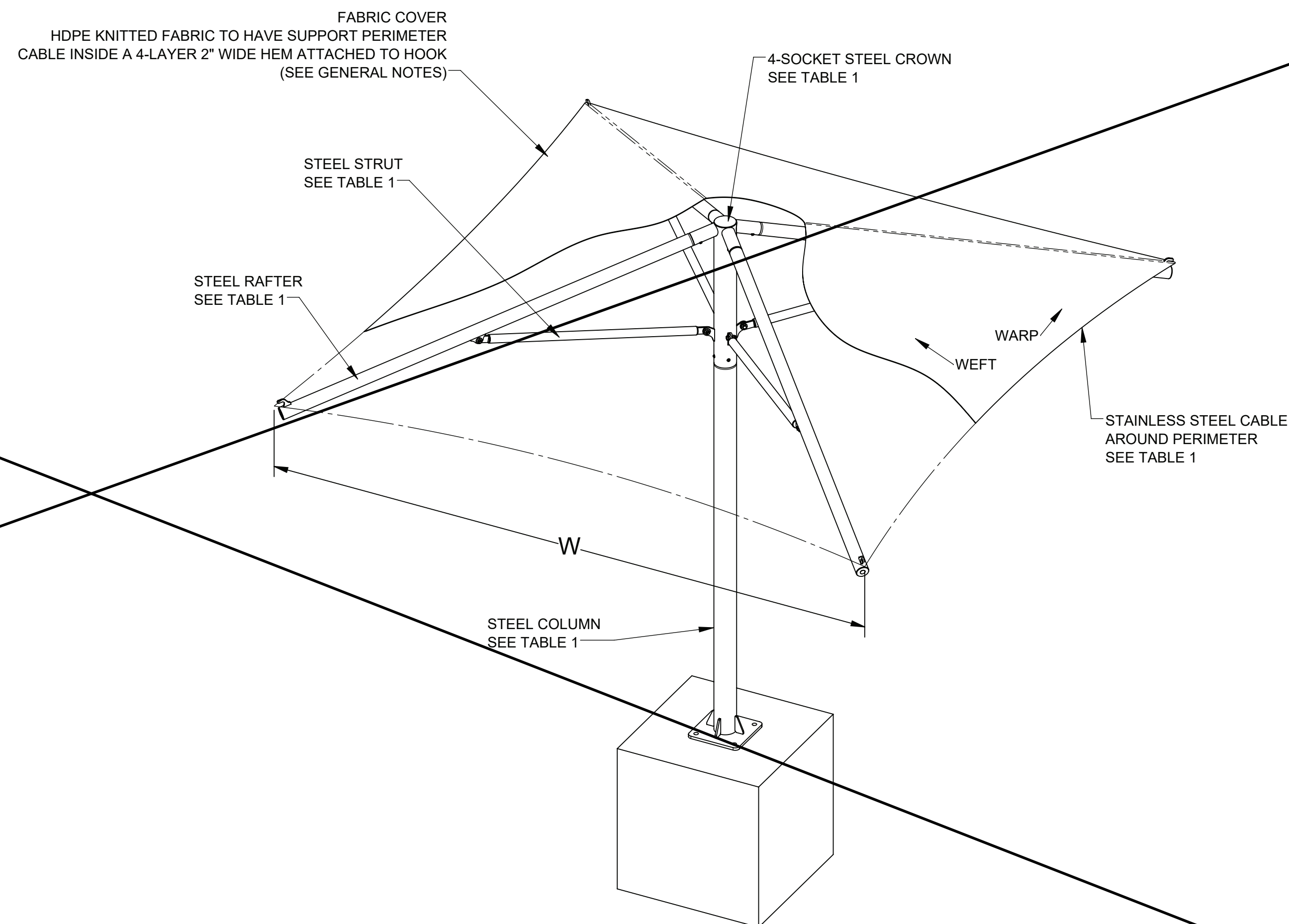
2
S2 HIP FRAME ELEVATION



1
S2 HIP SHADE STRUCTURE



4
S2 UMBRELLA FRAME ELEVATION



3
S2 UMBRELLA SHADE STRUCTURE

SEAL:



DSA IDENTIFICATION STAMP



SUPERIOR SHADE
150 Adamson Industrial Blvd.
Carrollton, GA 30117

FABRIC CANOPIES DSA PC - BP
ELEVATION DETAILS

COPYRIGHT:
THIS PLAN/DRAWING IS THE EXCLUSIVE
PROPERTY OF THE MANUFACTURER AND MAY
NOT BE USED OR REPRODUCED WHOLE OR
IN PART WITHOUT THE WRITTEN PERMISSION
FROM THE MANUFACTURER.

PC IDENTIFICATION STAMP
PRE-CHECK (PC) DOCUMENT
CODE: 2022 CBC
A separate project application
for construction is required

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-120923 PC
REVIEWED FOR
SS ☒ FLS ☒ ACS ☒ CG ☐
DATE: 9/21/2023

SITE PROJECT NAME:

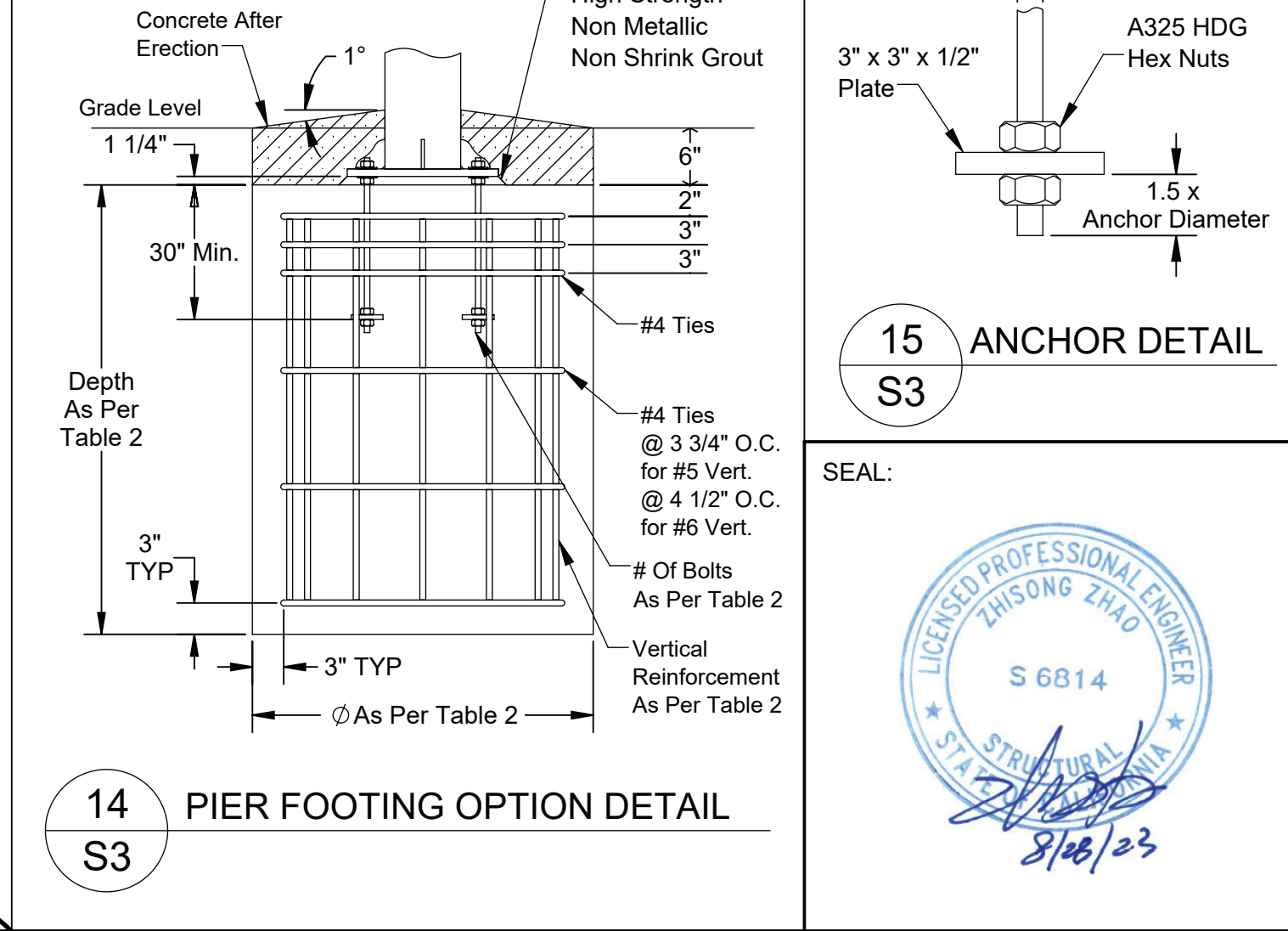
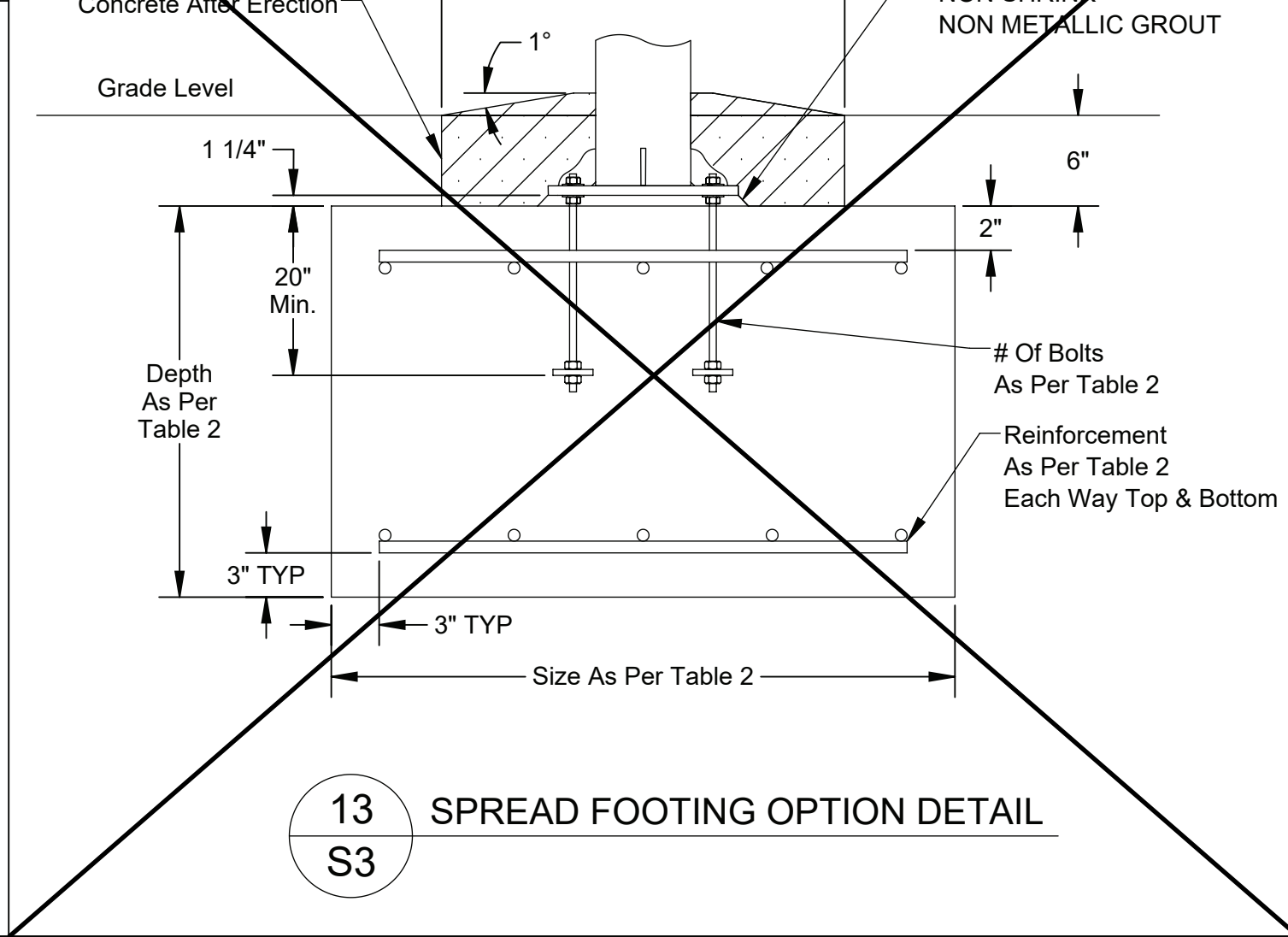
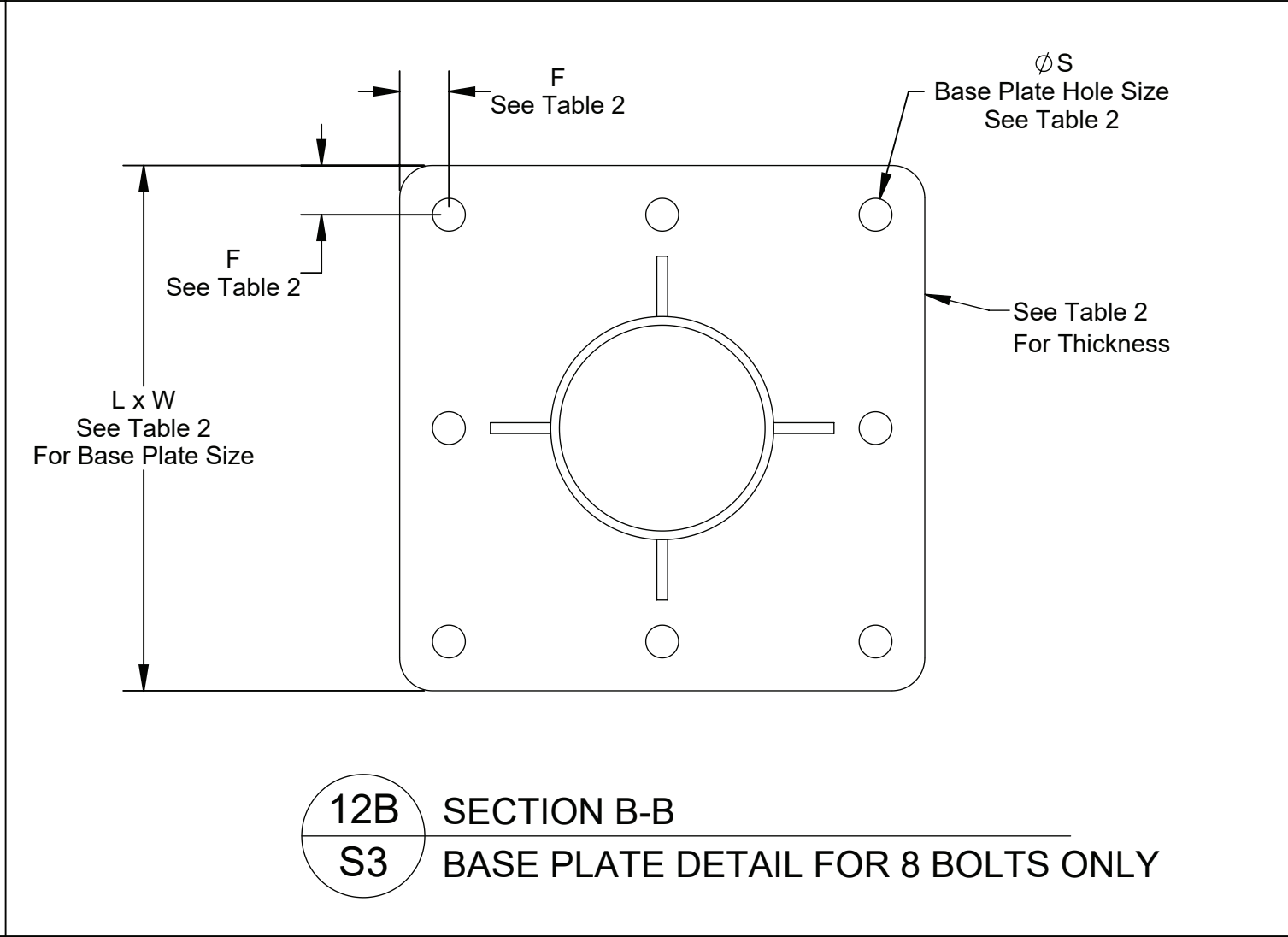
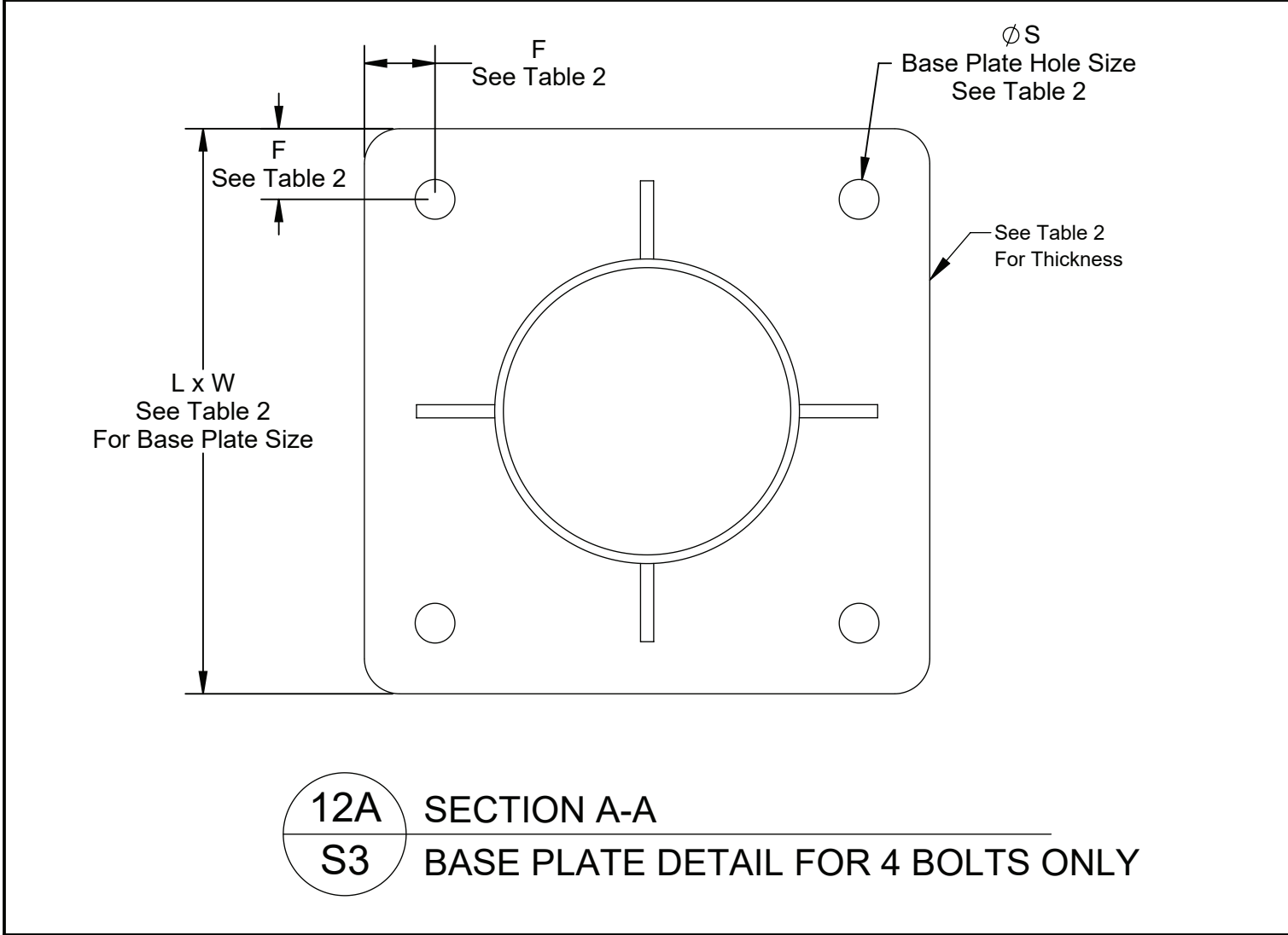
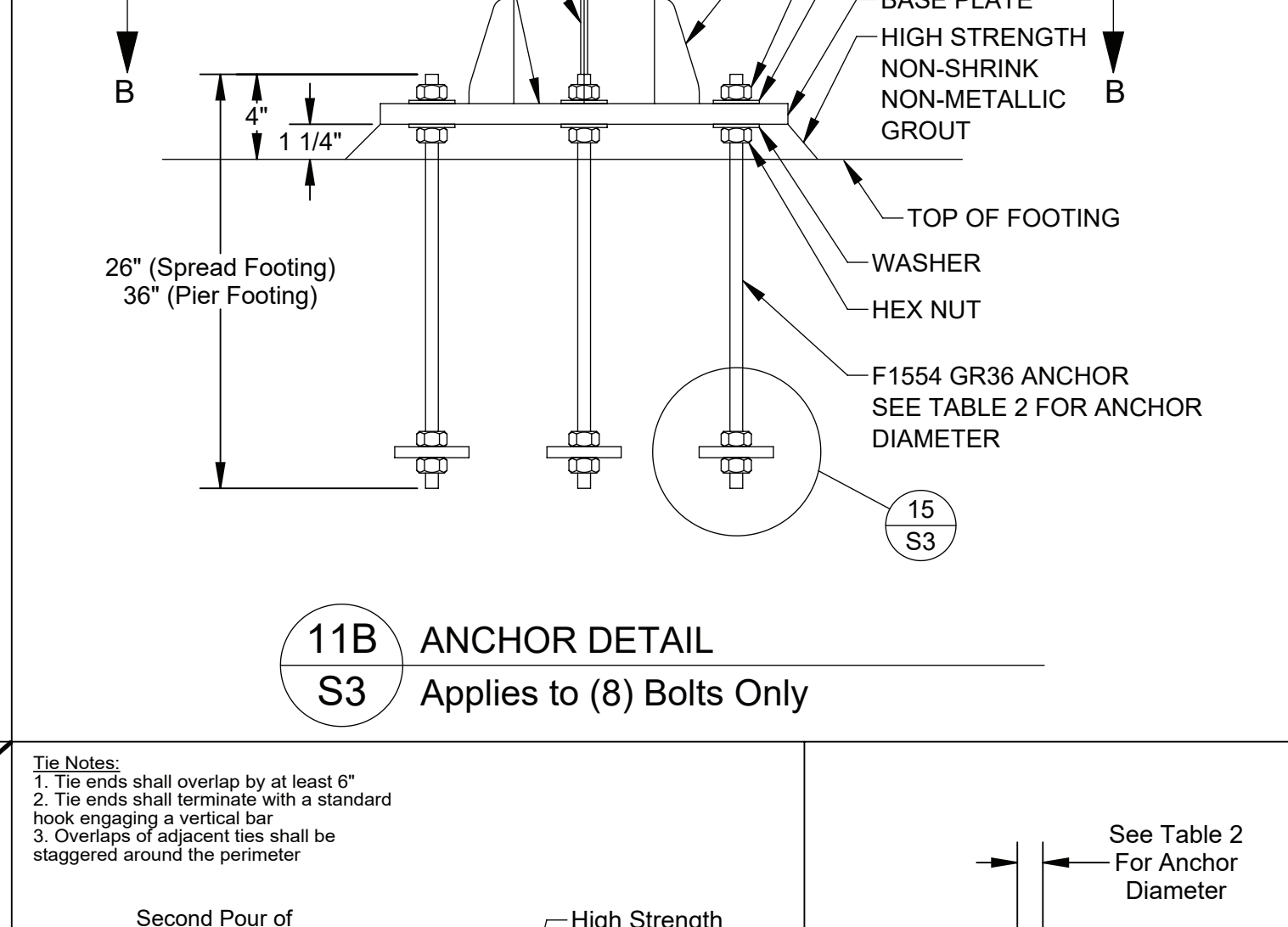
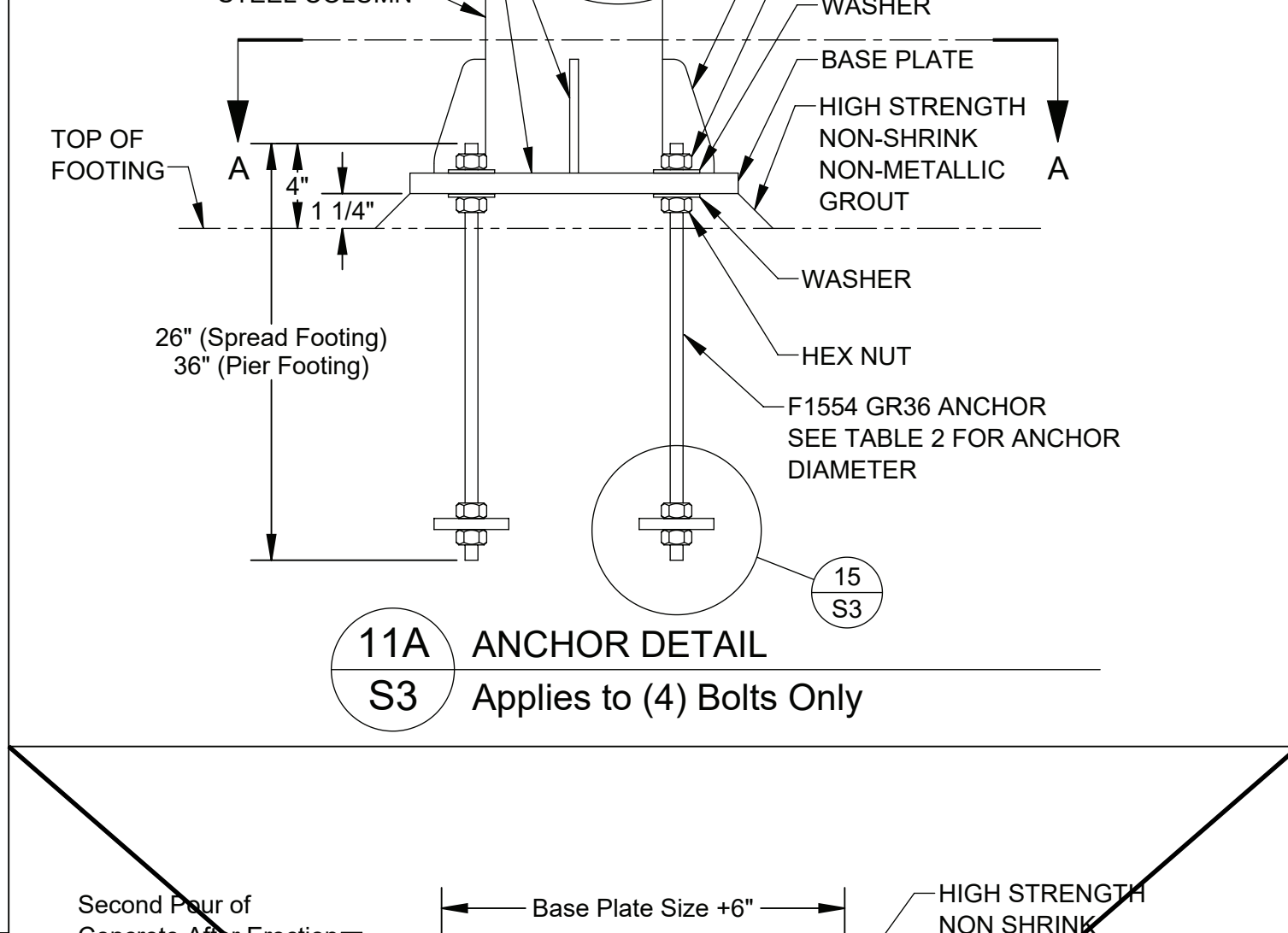
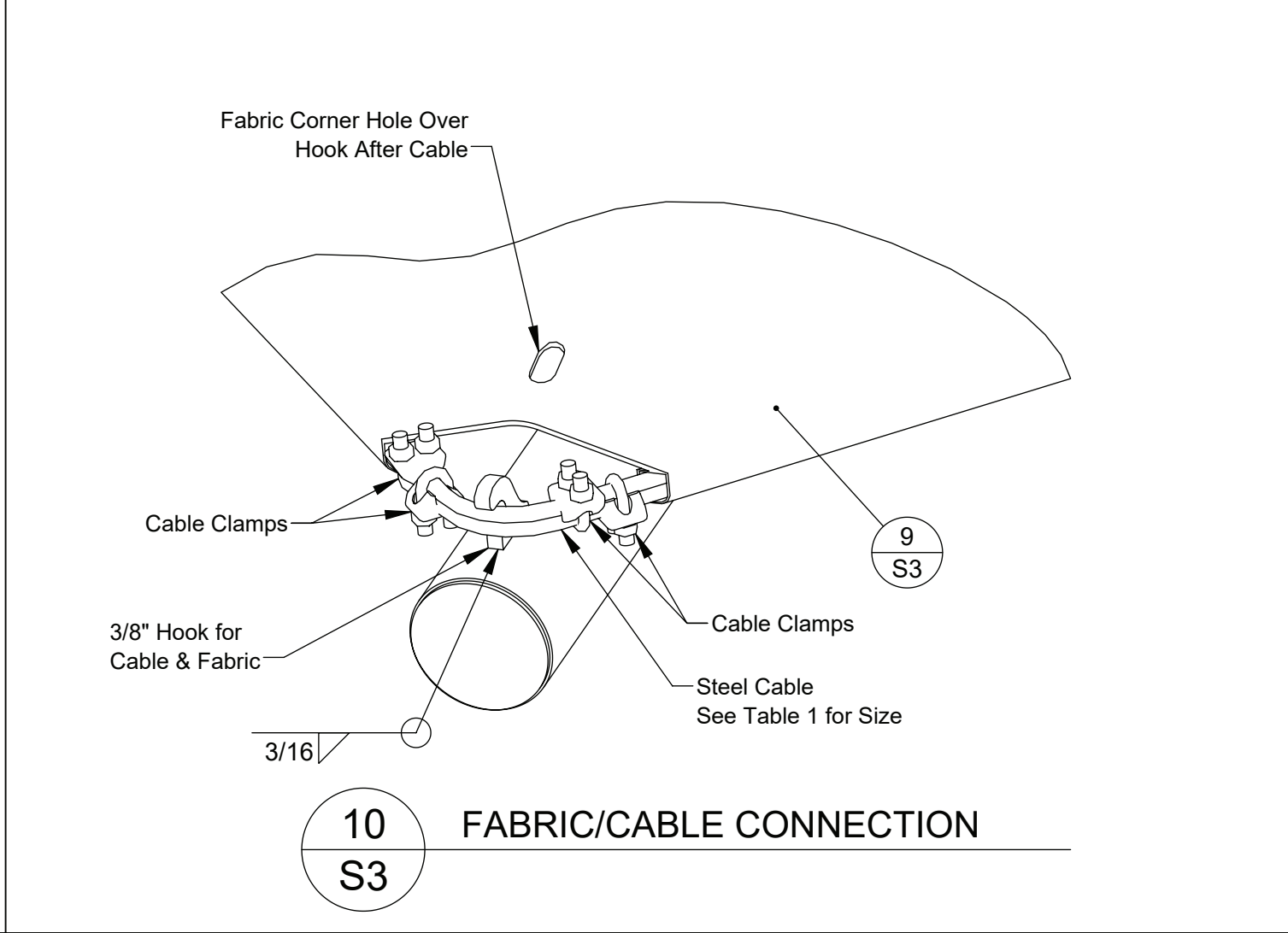
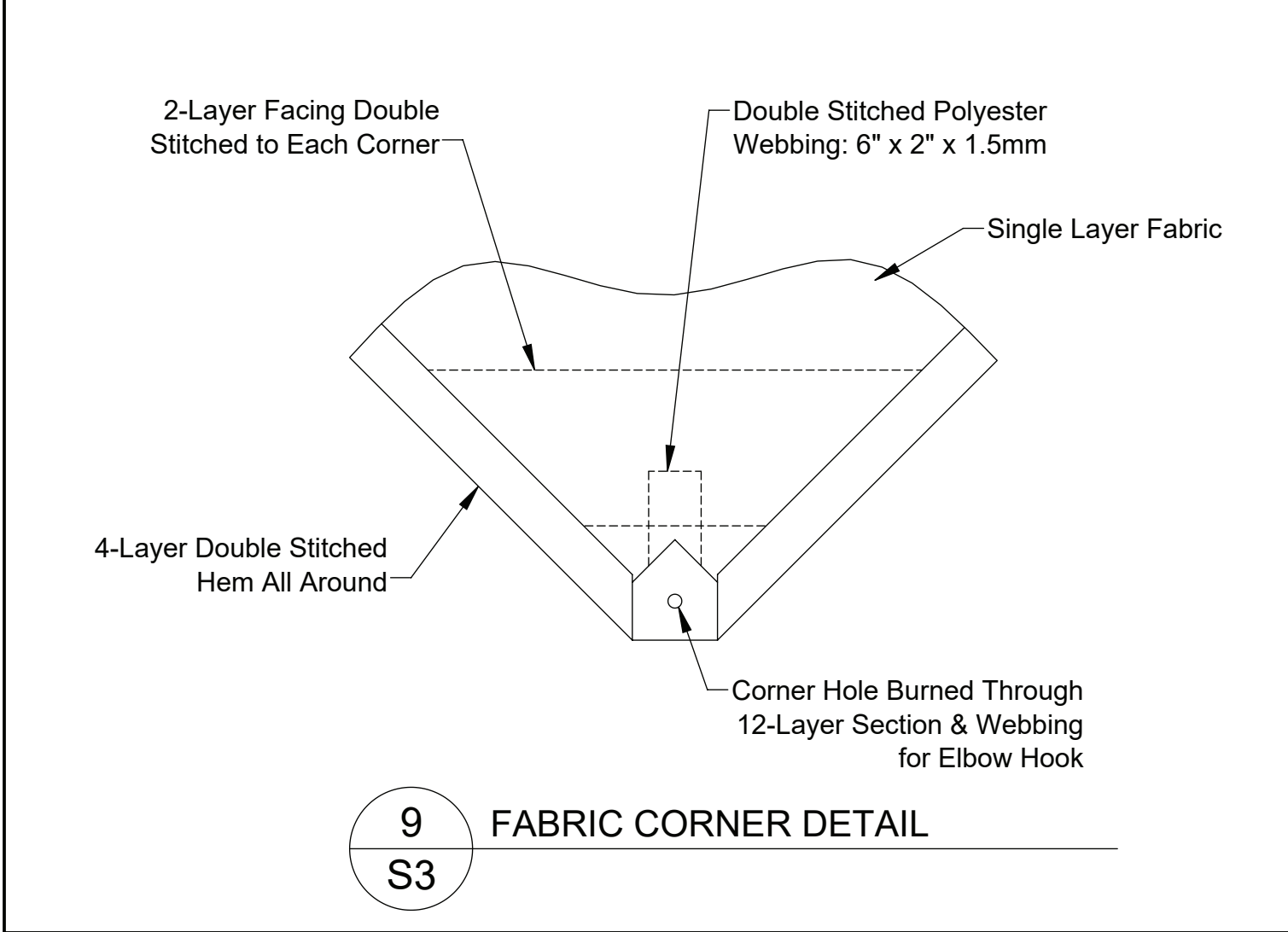
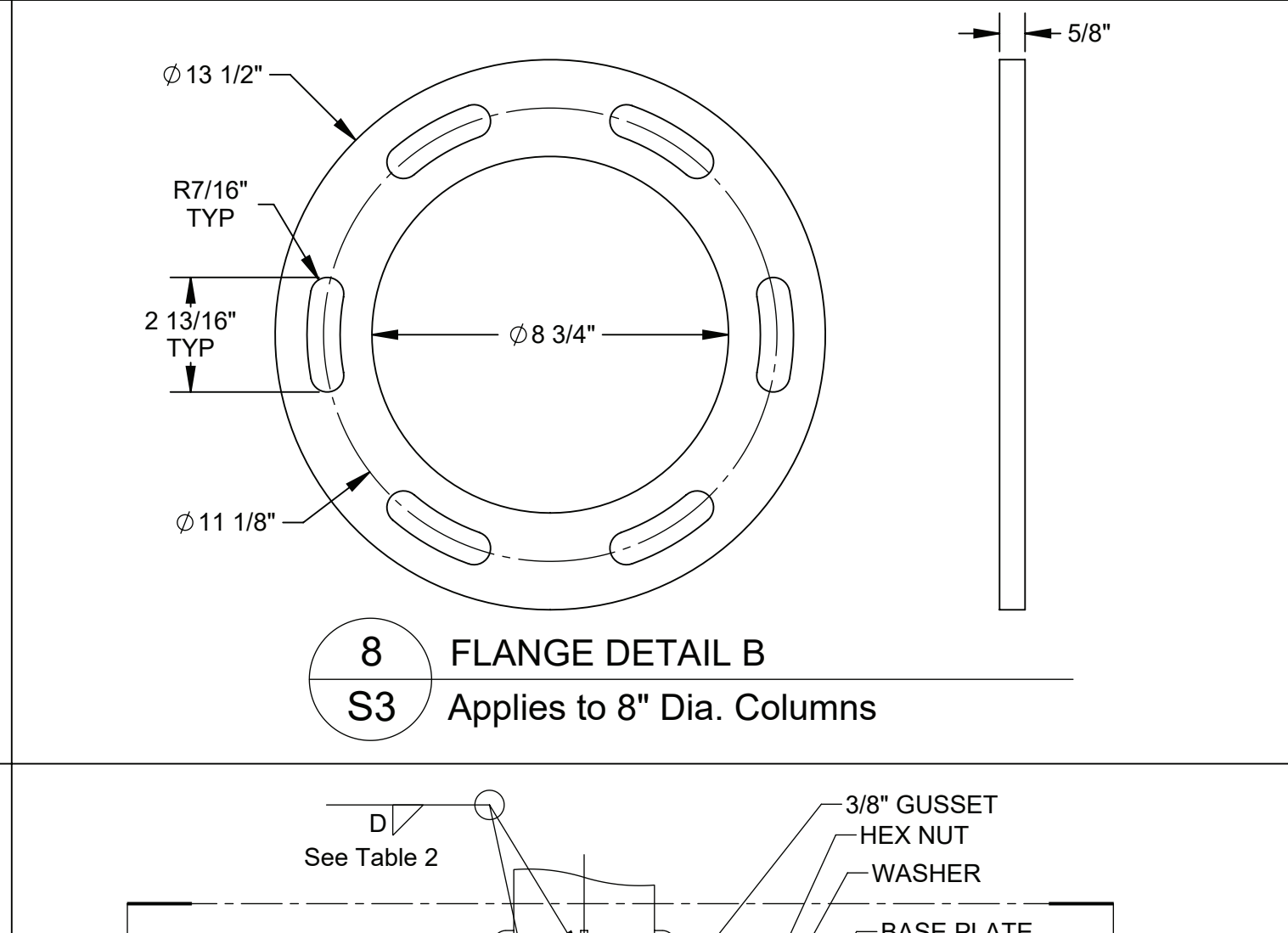
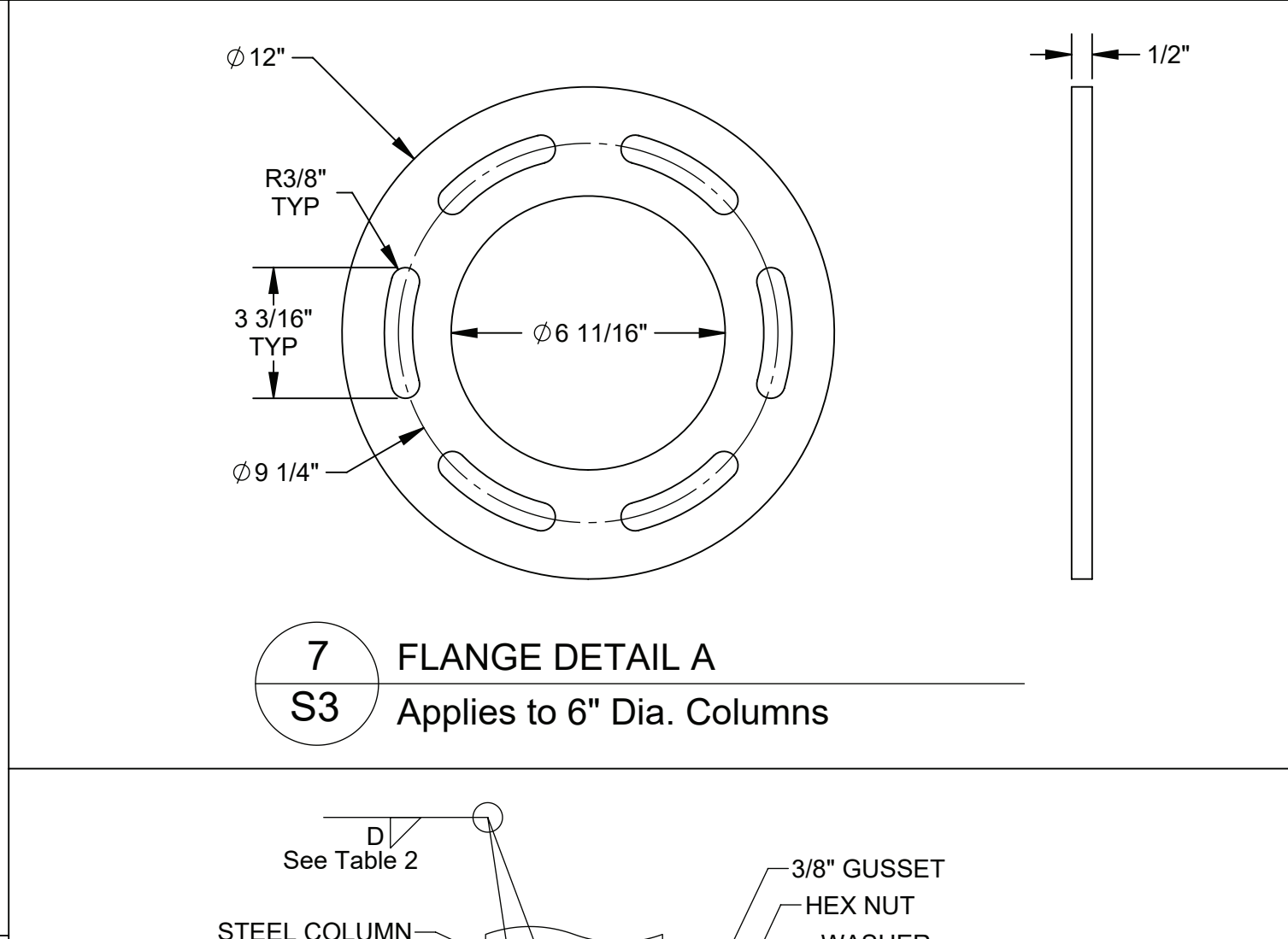
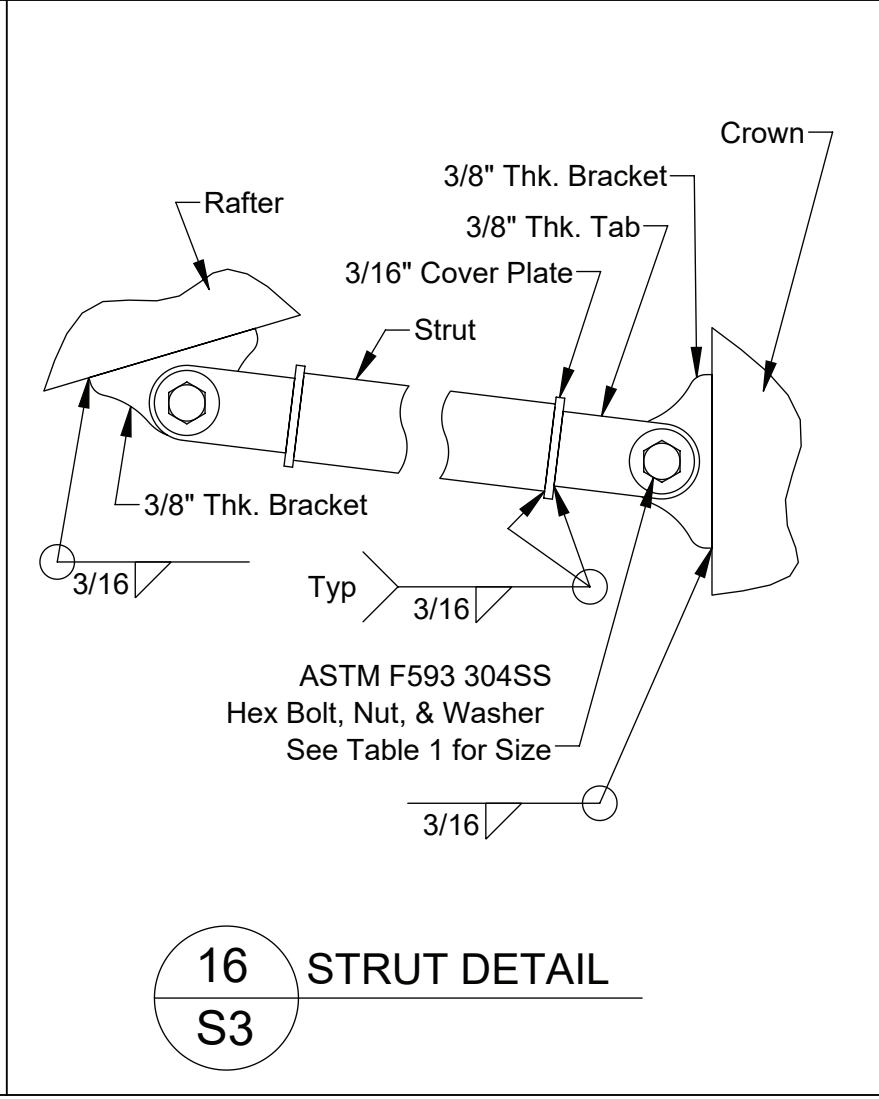
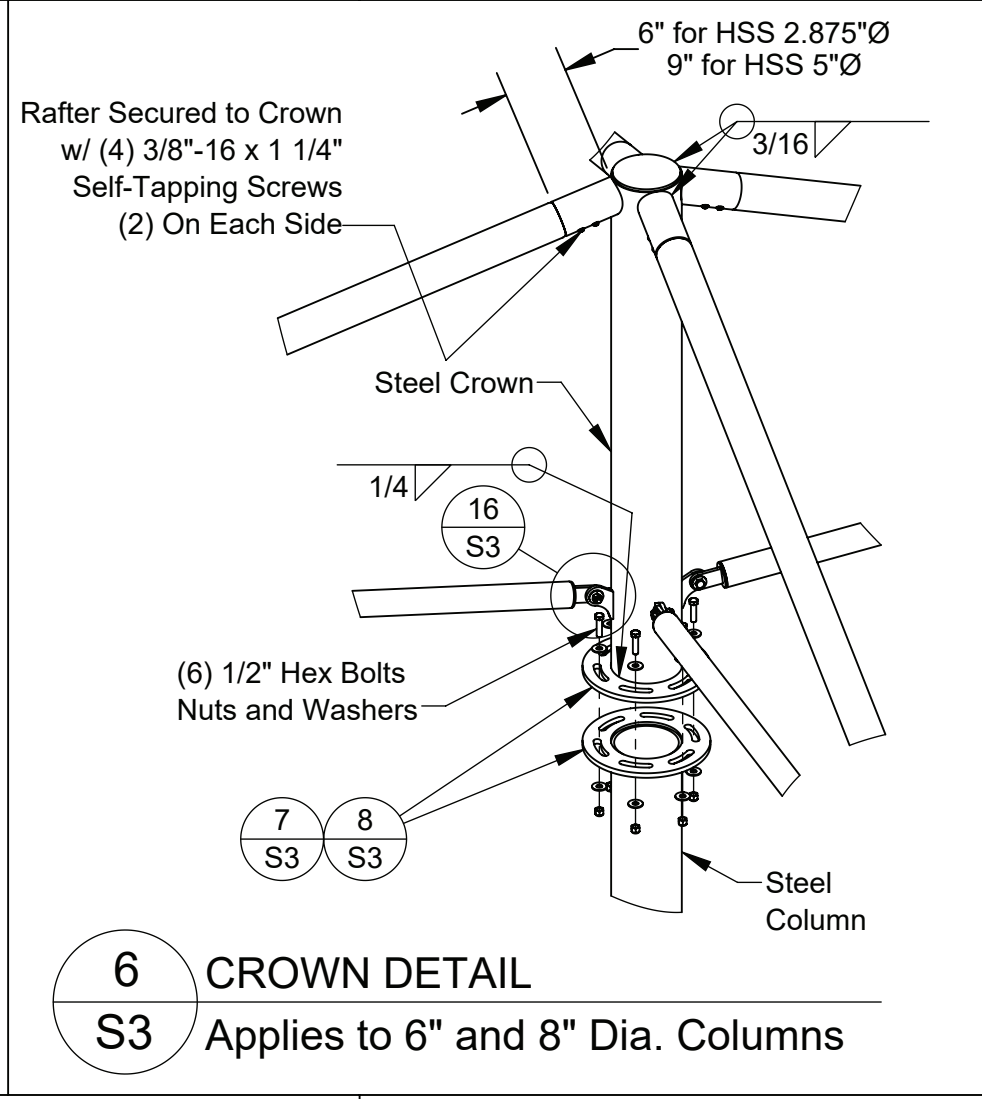
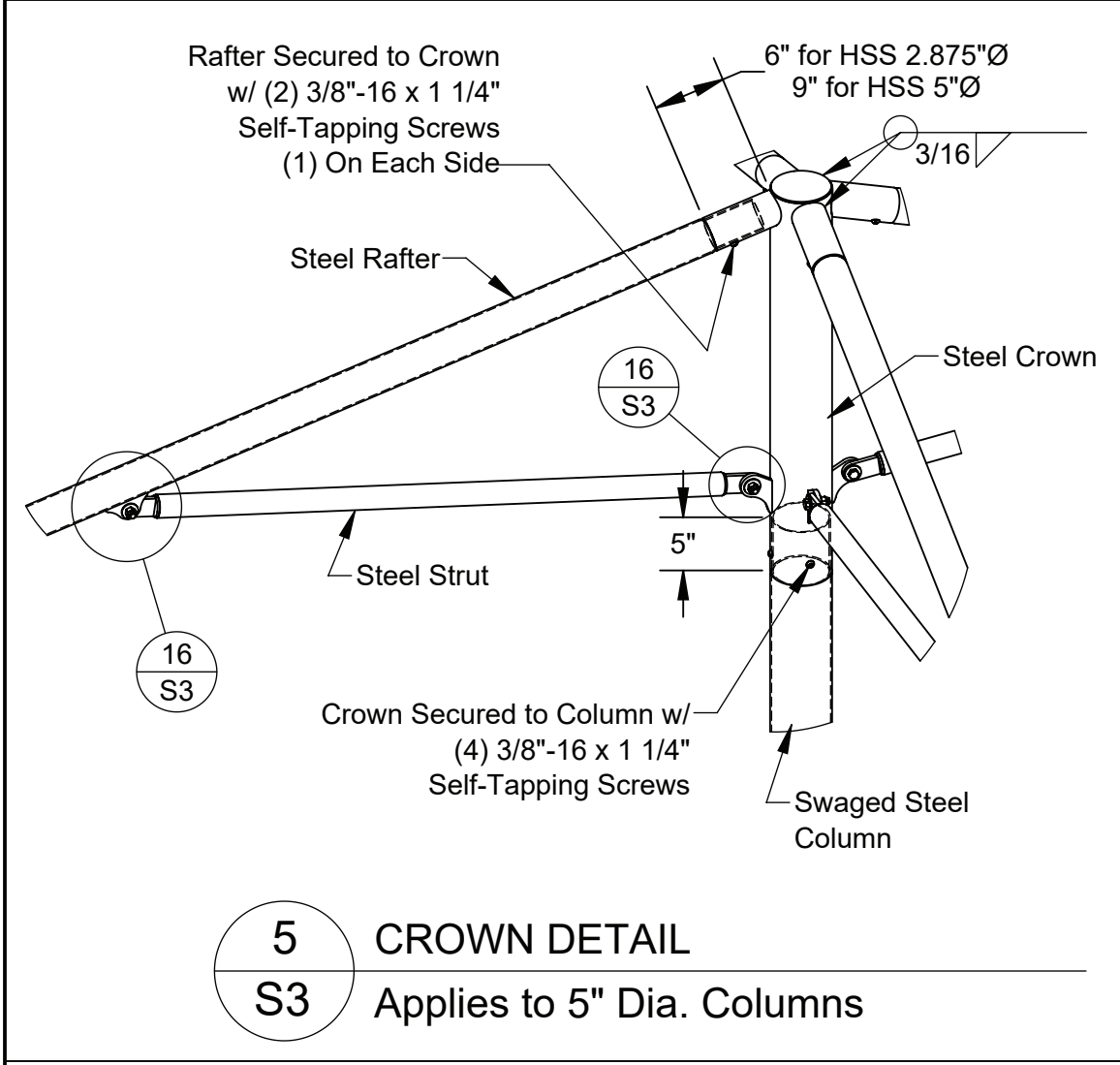
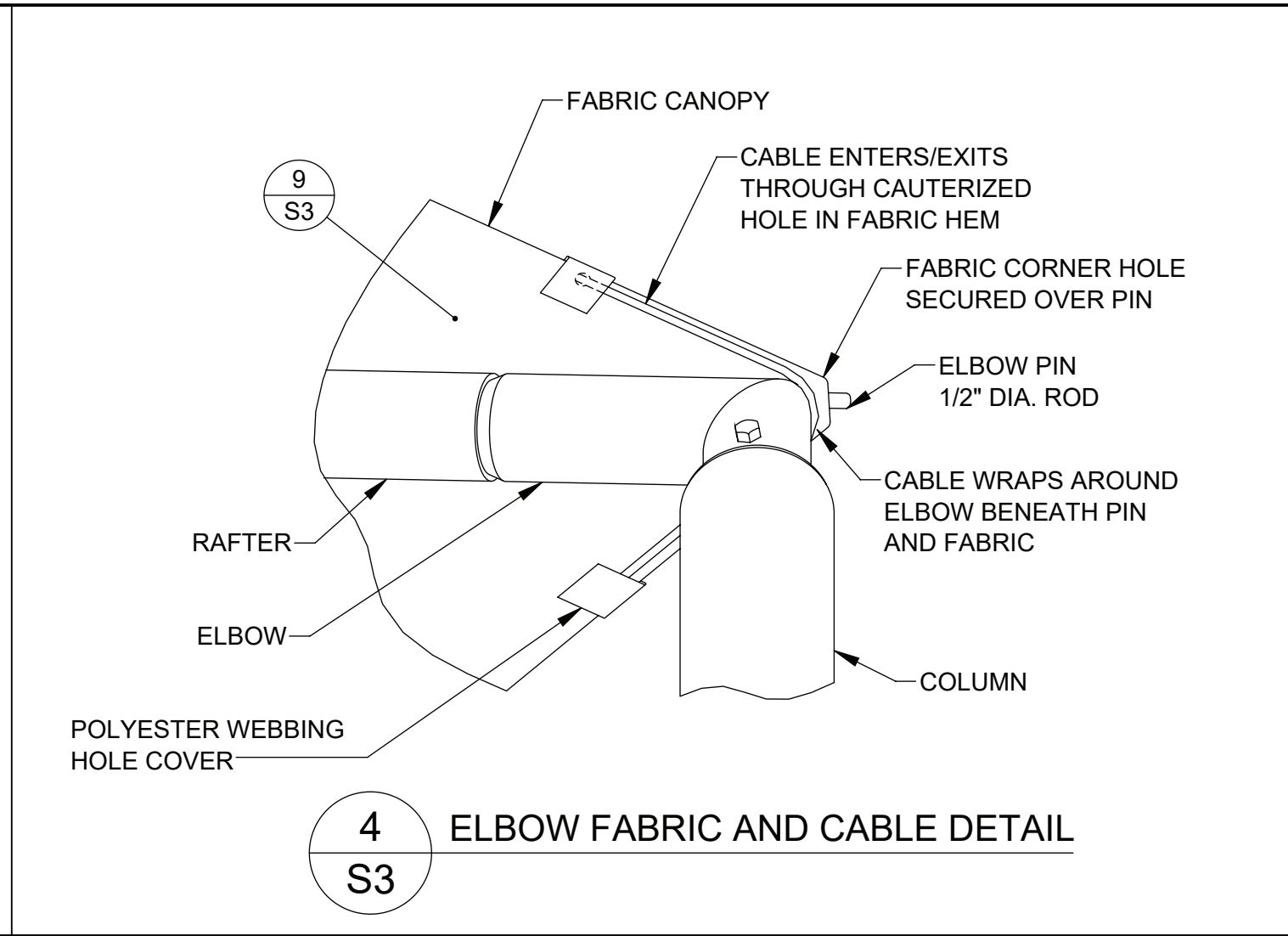
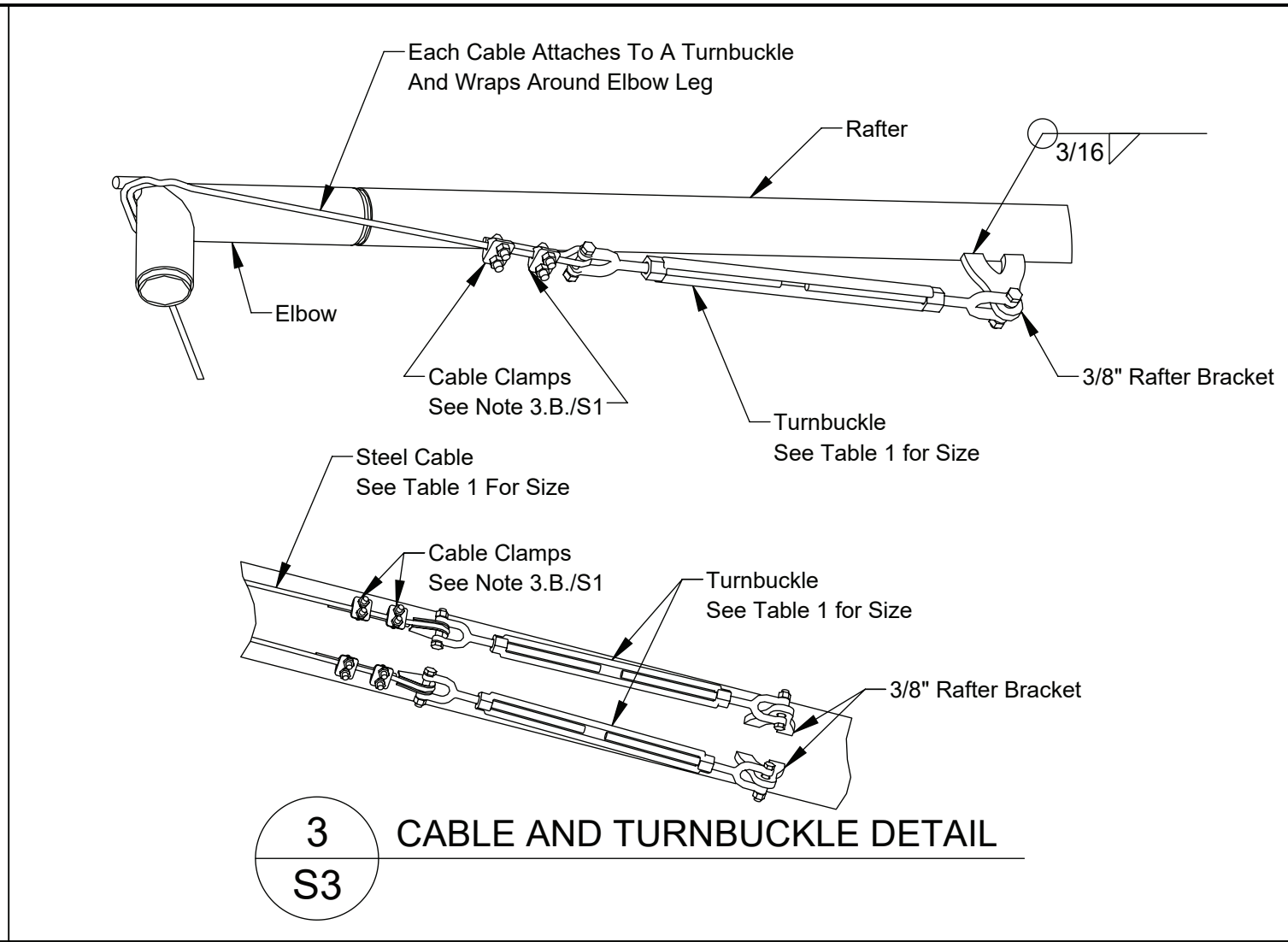
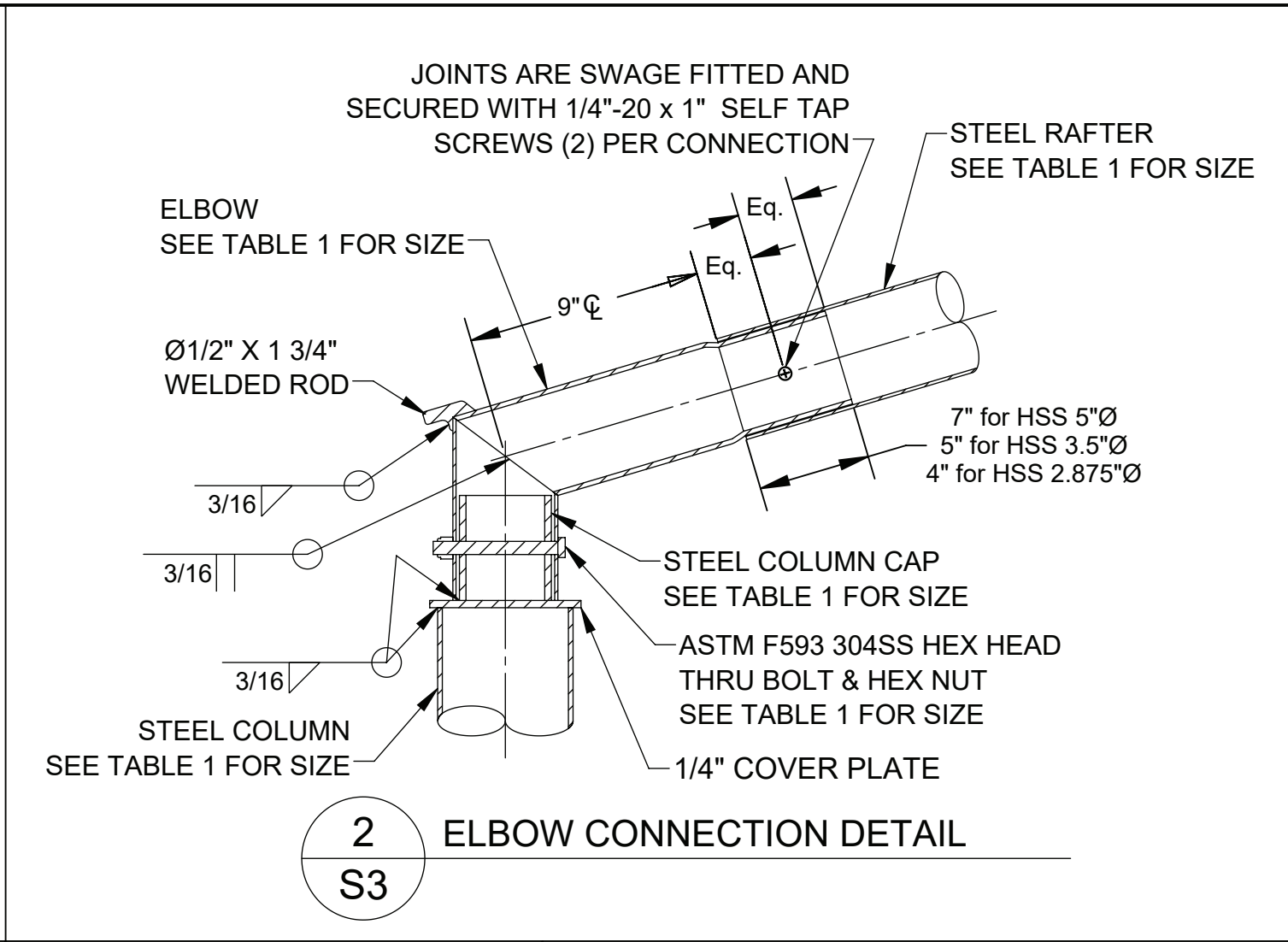
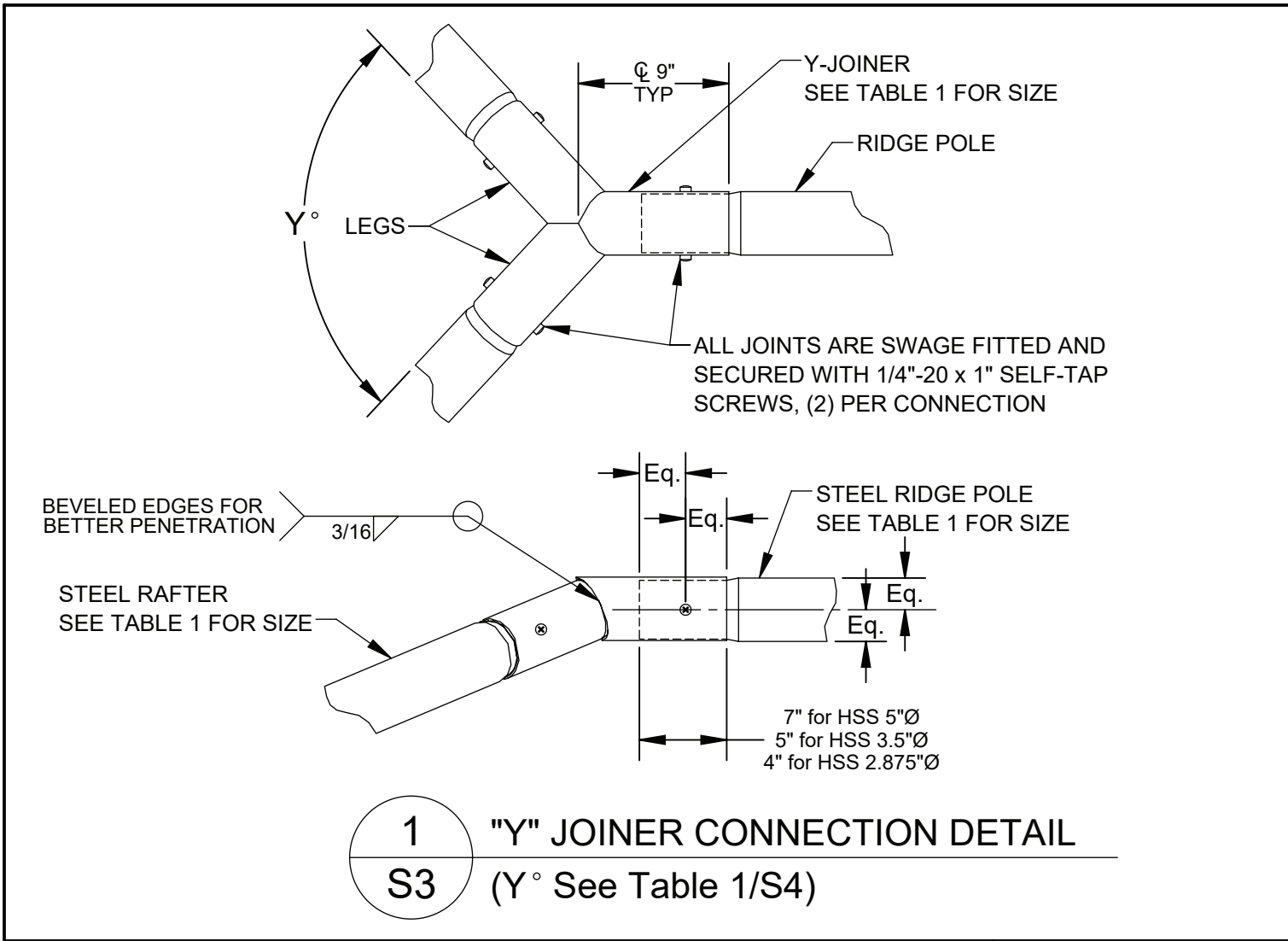
DISTRICT/OWNER:

LOCATION/ADDRESS:

Revisions		
	Date:	By:
0	12/18/2022	KJK
1	8/16/2023	KJK

Drawn:	KJK
Date:	12/8/2022
Chkd:	Zhisong Zhao
Date:	1/19/2023
Job Number:	

S2
Sheet No.



DSA IDENTIFICATION STAMP

Shade

SUPERIOR SHADE
150 Adamson Industrial Blvd.
Carrollton, GA 30117

FABRIC CANOPIES DSA PC - BP
TYPICAL CANOPY DETAILS

COPYRIGHT:
THIS PLAN/DRAWING IS THE EXCLUSIVE
PROPERTY OF THE MANUFACTURER AND MAY
NOT BE USED OR REPRODUCED WHOLE OR
IN PART WITHOUT THE WRITTEN PERMISSION
FROM THE MANUFACTURER.

PC IDENTIFICATION STAMP
PRE-CHECK (PC) DOCUMENT
CODE: 2022 CBC
A separate project application
for construction is required

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-120923 PC
REVIEWED FOR
SS ☒ FLS ☒ ACS ☒ CG ☐
DATE: 9/21/2023

SITE PROJECT NAME:
DISTRICT/OWNER:
LOCATION/ADDRESS:

Revisions
Date: By:
0 12/18/2022 KJK
1 8/16/2023 KJK

Drawn: KJK
Date: 12/8/2022
Chkd: Zhisong Zhao
Date: 1/19/2023
Job Number:

S3
Sheet No.

TABLE 1 : Shade Member Sizes															
	✓	Shade Number	Width (W)	Length (L)	Height (H)	Peak Height (P)	Steel Column	Steel Rafter	Steel Ridge	Elbow & Y-Joiner	Cable Size	Turnbuckle Size	Y° (See detail 1/S3)	Elbow Bolt Size (See Detail 2/S3)	Column Cap Material (See Detail 2/S3)
HIP STYLE	↙	DSARD102009SN	10'	20'	9'	11.02'	HSS 5" x 11 Gauge	HSS 2.875" x 12 Gauge	HSS 2.875" x 12 Gauge	HSS 2.875" x 12 Gauge	3/16" 7x19	Ø 5/8" x 12"	94.3	3/8" x 3-1/2"	2" Sch-40
		DSARD152009SN	15'	20'	9'	12.03'	HSS 5" x 7 Gauge	HSS 2.875" x 12 Gauge	HSS 2.875" x 12 Gauge	HSS 2.875" x 12 Gauge	1/4" 7x19	Ø 5/8" x 12"	94.3	3/8" x 3-1/2"	2" Sch-40
		DSASD202009SN	20'	20'	9'	12.7'	Pipe 5" x Sch 40	HSS 3.5" x 11 Gauge	HSS 3.5" x 11 Gauge	HSS 3.5" x 11 Gauge	1/4" 7x19	Ø 5/8" x 12"	106	1/2" x 4-1/2"	3" OD DOM 1/4" Wall
		DSASD252509SN	25'	25'	9'	13.63'	Pipe 6" x Sch 40	HSS 5" x 11 Gauge	HSS 5" x 11 Gauge	HSS 5" x 7 Gauge	5/16" 7x19	Ø 3/4" x 12"	106	1/2" x 6"	4" Sch-40
		DSARD203009SN	20'	30'	9'	13.04'	Pipe 6" x Sch 40	HSS 5" x 11 Gauge	HSS 5" x 11 Gauge	HSS 5" x 7 Gauge	5/16" 7x19	Ø 3/4" x 12"	94.3	1/2" x 6"	4" Sch-40
		DSARD253009SN	25'	30'	9'	14.05'	Pipe 8" x Sch 40	HSS 5" x 11 Gauge	HSS 5" x 11 Gauge	HSS 5" x 7 Gauge	3/8" 7x19	Ø 3/4" x 12"	94.3	1/2" x 6"	4" Sch-40
		DSASD303009SN	30'	30'	9'	14.55'	Pipe 8" x Sch 40	HSS 5" x 7 Gauge	HSS 5" x 7 Gauge	HSS 5" x 7 Gauge	3/8" 7x19	Ø 3/4" x 12"	106	1/2" x 6"	4" Sch-40
		DSARD183609SN	18'	36'	9'	12.63'	Pipe 8" x Sch 40	HSS 5" x 7 Gauge	HSS 5" x 7 Gauge	HSS 5" x 7 Gauge	7/16" 6x36	Ø 1" x 12"	94.3	1/2" x 6"	4" Sch-40
		DSARD204009SN	20'	40'	9'	13.04'	Pipe 8" x Sch 40	HSS 5" x 7 Gauge	HSS 5" x 7 Gauge	HSS 5" x 7 Gauge	7/16" 6x36	Ø 1" x 12"	94.3	1/2" x 6"	4" Sch-40
		DSARD304009SN	30'	40'	9'	15.06'	Pipe 8" x Sch 40	HSS 5" x 7 Gauge	HSS 5" x 7 Gauge	HSS 5" x 7 Gauge	7/16" 6x36	Ø 1" x 12"	94.3	1/2" x 6"	4" Sch-40
		DSARD102010SN	10'	20'	10'	12.02'	HSS 5" x 11 Gauge	HSS 2.875" x 12 Gauge	HSS 2.875" x 12 Gauge	HSS 2.875" x 12 Gauge	3/16" 7x19	Ø 5/8" x 12"	94.3	3/8" x 3-1/2"	2" Sch-40
		DSARD152010SN	15'	20'	10'	13.03'	HSS 5" x 7 Gauge	HSS 2.875" x 12 Gauge	HSS 2.875" x 12 Gauge	HSS 2.875" x 12 Gauge	1/4" 7x19	Ø 5/8" x 12"	94.3	3/8" x 3-1/2"	2" Sch-40
		DSASD202010SN	20'	20'	10'	13.7'	Pipe 5" x Sch 40	HSS 3.5" x 11 Gauge	HSS 3.5" x 11 Gauge	HSS 3.5" x 11 Gauge	1/4" 7x19	Ø 5/8" x 12"	106	1/2" x 4-1/2"	3" OD DOM 1/4" Wall
		DSASD252510SN	25'	25'	10'	14.63'	Pipe 6" x Sch 40	HSS 5" x 11 Gauge	HSS 5" x 11 Gauge	HSS 5" x 7 Gauge	5/16" 7x19	Ø 3/4" x 12"	106	1/2" x 6"	4" Sch-40
		DSARD203010SN	20'	30'	10'	14.04'	Pipe 6" x Sch 40	HSS 5" x 11 Gauge	HSS 5" x 11 Gauge	HSS 5" x 7 Gauge	5/16" 7x19	Ø 3/4" x 12"	94.3	1/2" x 6"	4" Sch-40
		DSARD253010SN	25'	30'	10'	15.05'	Pipe 8" x Sch 40	HSS 5" x 7 Gauge	HSS 5" x 7 Gauge	HSS 5" x 7 Gauge	3/8" 7x19	Ø 3/4" x 12"	94.3	1/2" x 6"	4" Sch-40
		DSASD303010SN	30'	30'	10'	15.55'	Pipe 8" x Sch 40	HSS 5" x 7 Gauge	HSS 5" x 7 Gauge	HSS 5" x 7 Gauge	3/8" 7x19	Ø 3/4" x 12"	106	1/2" x 6"	4" Sch-40
		DSARD183610SN	18'	36'	10'	13.63'	Pipe 8" x Sch 40	HSS 5" x 7 Gauge	HSS 5" x 7 Gauge	HSS 5" x 7 Gauge	7/16" 6x36	Ø 1" x 12"	94.3	1/2" x 6"	4" Sch-40
		DSARD204010SN	20'	40'	10'	14.04'	Pipe 8" x Sch 40	HSS 5" x 7 Gauge	HSS 5" x 7 Gauge	HSS 5" x 7 Gauge	7/16" 6x36	Ø 1" x 12"	94.3	1/2" x 6"	4" Sch-40
		DSARD304010SN	30'	40'	10'	16.06'	Pipe 8" x Sch 40	HSS 5" x 7 Gauge	HSS 5" x 7 Gauge	HSS 5" x 7 Gauge	7/16" 6x36	Ø 1" x 12"	94.3	1/2" x 6"	4" Sch-40
		DSARD102012SN	10'	20'	12'	14.02'	HSS 5" x 11 Gauge	HSS 2.875" x 12 Gauge	HSS 2.875" x 12 Gauge	HSS 2.875" x 12 Gauge	3/16" 7x19	Ø 5/8" x 12"	94.3	3/8" x 3-1/2"	2" Sch-40
		DSARD152012SN	15'	20'	12'	15.03'	Pipe 5" x Sch 40	HSS 2.875" x 12 Gauge	HSS 2.875" x 12 Gauge	HSS 2.875" x 12 Gauge	1/4" 7x19	Ø 5/8" x 12"	94.3	3/8" x 3-1/2"	2" Sch-40
		DSASD202012SN	20'	20'	12'	15.7'	Pipe 5" x Sch 40	HSS 3.5" x 11 Gauge	HSS 3.5" x 11 Gauge	HSS 3.5" x 11 Gauge	1/4" 7x19	Ø 5/8" x 12"	106	1/2" x 4-1/2"	3" OD DOM 1/4" Wall
		DSASD252512SN	25'	25'	12'	16.63'	Pipe 6" x Sch 40	HSS 5" x 11 Gauge	HSS 5" x 11 Gauge	HSS 5" x 7 Gauge	5/16" 7x19	Ø 3/4" x 12"	106	1/2" x 6"	4" Sch-40
		DSARD203012SN	20'	30'	12'	16.04'	Pipe 6" x Sch 40	HSS 5" x 11 Gauge	HSS 5" x 11 Gauge	HSS 5" x 7 Gauge	5/16" 7x19	Ø 3/4" x 12"	94.3	1/2" x 6"	4" Sch-40
		DSARD253012SN	25'	30'	12'	17.05'	Pipe 8" x Sch 40	HSS 5" x 11 Gauge	HSS 5" x 11 Gauge	HSS 5" x 7 Gauge	3/8" 7x19	Ø 3/4" x 12"	94.3	1/2" x 6"	4" Sch-40
		DSASD303012SN	30'	30'	12'	17.55'	Pipe 8" x Sch 40	HSS 5" x 7 Gauge	HSS 5" x 7 Gauge	HSS 5" x 7 Gauge	3/8" 7x19	Ø 3/4" x 12"	106	1/2" x 6"	4" Sch-40
		DSARD183612SN	18'	36'	12'	15.63'	Pipe 8" x Sch 40	HSS 5" x 7 Gauge	HSS 5" x 7 Gauge	HSS 5" x 7 Gauge	7/16" 6x36	Ø 1" x 12"	94.3	1/2" x 6"	4" Sch-40
		DSARD204012SN	20'	40'	12'	16.04'	Pipe 8" x Sch 40	HSS 5" x 7 Gauge	HSS 5" x 7 Gauge	HSS 5" x 7 Gauge	7/16" 6x36	Ø 1" x 12"	94.3	1/2" x 6"	4" Sch-40
		DSARD304012SN	30'	40'	12'	18.06'	Pipe 8" x Sch 40	HSS 5" x 7 Gauge	HSS 5" x 7 Gauge	HSS 5" x 7 Gauge	7/16" 6x36	Ø 1" x 12"	94.3	1/2" x 6"	4" Sch-40
UMBRELLA STYLE	↘	Shade Number	Width (W)	Length (L)	Height (H)	Peak Height (P)	Steel Column	Steel Rafter	Steel Crown	Steel Strut	Cable Size	Strut Bolt (See Detail 16/S3)			
		DSASU121209SN	12'	12'	9'	11.42'	HSS 5" x 11 Gauge	HSS 2.875" x 12 Gauge	HSS 5" x 11 Gauge	HSS 1.9" x 11 Gauge	3/16" 7x19	Ø 3/4"			
		DSASU121210SN	12'	12'	10'	12.42'	HSS 5" x 11 Gauge	HSS 2.875" x 12 Gauge	HSS 5" x 11 Gauge	HSS 1.9" x 11 Gauge	3/16" 7x19	Ø 3/4"			
		DSASU121212SN	12'	12'	12'	14.42'	HSS 5" x 7 Gauge	HSS 2.875" x 12 Gauge	HSS 5" x 7 Gauge	HSS 4.9" x 11 Gauge	3/16" 7x19	Ø 3/4"			
		DSASU202009SN	20'	20'	9'	13.04'	Pipe 8" x Sch 40	HSS 5" x 7 Gauge	Pipe 8" x Sch 40	HSS 2.5" x 12 Gauge	5/16" 7x19	Ø 1"			
		DSASU202010SN	20'	20'	10'	14.04'	Pipe 8" x Sch 40	HSS 5" x 7 Gauge	Pipe 8" x Sch 40	HSS 2.5" x 12 Gauge	5/16" 7x19	Ø 1"			
DSASU202012SN	20'	20'	12'	16.04'	Pipe 8" x Sch 40	HSS 5" x 7 Gauge	Pipe 8" x Sch 40	HSS 2.5" x 12 Gauge	5/16" 7x19	Ø 1"					
TABLE 2 : Shade Foundation															
Style	✓	Shade Number	Base Plate Size (L x W)	Base Plate Thickness	Base Plate Weld Size (D)	Base Plate Anchor Bolt Hole Size Ø(S)	Base Plate Hole Offset (F)	Anchor Diameter	Anchor Number	Spread Footing Depth	Spread Foot Size	Spread Footing Reinforcement	Pier Footing Depth	Pier Footing Diameter	Pier Footing Reinforcement
HIP	↙	DSARD102009SN	12" x 12"	1"	3/16"	7/8"	1 1/2"	3/4"	4	3.0'	3.5' x 3.5'	5 #5	5.75'	Ø 2'	8 #6
		DSARD152009SN	12" x 12"	1"	1/4"	1"	1 1/2"	7/8"	4	3.0'	4' x 4'	6 #5	6.75'	Ø 2'	8 #6
		DSASD202009SN	14" x 14"	1"	1/4"	1 1/8"	2"	1"	4	3.0'	5.5' x 5.5'	7 #5	7.75'	Ø 2'	8 #6
		DSASD252509SN	18" x 18"	1 1/4"	5/16"	1 1/8"	2"	1"	8	3.0'	6.5' x 6.5'	9 #5	9'	Ø 2.5'	10 #6
		DSARD203009SN	18" x 18"	1 1/4"	5/16"	1 1/8"	2"	1"	8	3.0'	5.5' x 5.5'	7 #5	8.75'	Ø 2.5'	10 #6
		DSARD253009SN	24" x 24"	1 1/4"	5/16"	1 1/4"	2"	1 1/8"	8	3.0'	6.5' x 6.5'	9 #5	9.25'	Ø 3'	12 #6
		DSASD303009SN	24" x 24"	1 1/4"	5/16"	1 1/4"	2"	1 1/8"	8	3.0'	7.25' x 7.25'	10 #5	9.5'	Ø 3'	12 #6
		DSARD183609SN	24" x 24"	1 1/4"	5/16"	1 1/4"	2"	1 1/8"	8	3.0'	6' x 6'	8 #5	9.25'	Ø 3'	12 #6
		DSARD204009SN	26" x 26"	1 1/2"	5/16"	1 1/2"	3"	1 3/8"	8	3.0'	6.5' x 6.5'	9 #5	10'	Ø 3'	12 #6
		DSARD304009SN	26" x 26"	1 1/2"	5/16"	1 1/2"	3"	1 3/8"	8	3.0'	7.25' x 7.25'	10 #5	11'	Ø 3'	12 #6
		DSARD102010SN	12" x 12"	1"	3/16"	7/8"	1 1/2"	3/4"	4	3.0'	3.5' x 3.5'	5 #5	5.75'	Ø 2'	8 #6
		DSARD152010SN	12" x 12"	1"	1/4"	1"	1 1/2"	7/8"	4	3.0'	4' x 4'	6 #5	6.75'	Ø 2'	8 #6
		DSASD202010SN	14" x 14"	1"	1/4"	1 1/8"	2"	1"	4	3.0'	5.75' x 5.75'	8 #5	7.75'	Ø 2'	8 #6
		DSASD252510SN	18" x 18"	1 1/4"	5/16"	1 1/8"	2"	1"	8	3.0'	6.5' x 6.5'	9 #5	9'	Ø 2.5'	10 #6
		DSARD203010SN	18" x 18"	1 1/4"	5/16"	1 1/8"	2"	1"	8	3.0'	5.75' x 5.75'	8 #5	8.75'	Ø 2.5'	10 #6
		DSARD253010SN	24" x 24"	1 1/4"	5/16"	1 1/4"	2"	1 1/8"	8	3.0'	6.25' x 6.25'	8 #5	9.25'	Ø 3'	12 #6
		DSASD3030													



FLAME RETARDANT

Fabric Registration

LICENSE NUMBER: F-037801

COMMERCIAL NINETYFIVE 340FR

Product Marketed by:

GALE PACIFIC LTD

145 WOODLANDS DRIVE

BRAESIDE, AUSTRALIA 3195,

Issue Date : 04/18/2023

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 Courtney 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

Commercial NinetyFive 340FR



PRODUCT SPECIFICATION

Commercial NinetyFive 340 FR, the flame retardant version of the most trusted HDPE shade fabric in the industry, is a mid-weight, flame retardant fabric that delivers the utmost in versatility. Available in 22 vibrant and on-trend colors, Commercial NinetyFive 340 FR can fulfill almost any HDPE design requirement.

- A mid-weight, 340 gm fabric suitable for applications spanning a wide array of sizes and designs.
- Provides the optimal combination of sun protection, strength, and durability to ensure low maintenance, and long-life performance
- The most expansive color assortment in the HDPE shade fabric market. Offering 22 rich, vibrant and on-trend colors to fulfill a wide range of design requirements.
- Each color individually tested and meets the most stringent FR certification criteria
- Industry-leading stentering process provides premium lay flat characteristics to assist with accurate design and fabrication
- Backed by a full 10-year warranty against UV degradation and designed to withstand the world's harshest environments
- 100% Lead and Phthalate free

PERFORMANCE

ASTM D5034

Tensile Strength and Elongation

Maximum Force – Warp (Mean)

Elongation at Maximum Force (Mean)

Maximum Force – Weft (Mean)

Elongation at Maximum Force – Warp (Mean)

Mean Force

158.6 lbf

89%

412.3 lbf

49%

ASTM D2261

Tearing Strength – Tongue (Single Rip)

Mean Force – Warp

Mean Force – Weft

43.0 lbf

39.6 lbf

ASTM D6797

Bursting Strength – Ball Burst (Constant Rate of Extension)

Mean Force

408 lbf

AS 4174:2018

Shade Protection Fabric Performance

Colour	Cover Factor	Shade Trans %	UV-Vis Trans %	UVR Trans %	UVR Block %	UVE %	Protection Category
Aquatic Blue	92	88.1	11.9	8.5	91.5	91	Very Effective
Black	95	94.8	5.2	5.0	95.0	94	Very Effective
Bright Green	90	87.3	12.7	9.0	91.0	90	Effective
Brown	96	94.3	5.7	4.0	96.0	96	Most Effective
Brunswick Green	93	92.9	7.1	6.4	93.6	92	Very Effective
Cayenne	93	87.3	12.7	6.7	93.3	92	Very Effective
Cedar	93	88.4	11.6	6.4	93.6	93	Very Effective
Charcoal	93	93.6	6.4	6.1	93.9	92	Very Effective
Cherry Red	90	80.0	20.0	10.0	90.0	90	Effective
Deep Ochre	91	90.5	9.5	8.3	91.7	90	Effective
Desert Sand	93	86.1	13.9	6.6	93.4	92	Very Effective
Gun Metal	96	94.5	5.5	3.5	96.5	96	Most Effective
Natural	94	78.3	21.7	6.5	93.5	92	Very Effective
Navy Blue	94	93.1	6.9	6.2	93.8	93	Very Effective
Orange	92	80.8	19.2	7.6	92.4	91	Very Effective
Rivergum Green	94	89.7	10.3	6.0	94.0	93	Very Effective
Royal Purple	91	87.9	12.1	8.6	91.4	90	Effective
Sky Blue	94	91.3	8.7	6.0	94.0	93	Very Effective
Steel Grey	92	89.7	10.3	7.6	92.4	91	Very Effective
Turquoise	94	89.5	10.5	6.6	93.4	93	Very Effective
White	95	76.5	23.5	5.4	94.6	94	Very Effective
Yellow	93	77.5	22.5	6.8	93.2	92	Very Effective

FLAMMABILITY

CSFM Title 19 1237.1

NFPA 701 Test Methods 1 & 2

ASTM E84 19B

Each color individually tested and passes all certification criteria for above. Test results available upon request.

NFPA 701 Class M1 in process

FABRIC PROPERTIES

AS 2001 1.13

Mass per unit

Nominal fabric mass

340 gm ± 20 ; 10 oz/yd²

Approximate thickness

0.06 in / 1.6 mm

ROLL SPECIFICATIONS

Nominal width

9 ft / 10 in / 3.0m (folded)

Length

131 ft 3 in / 40m

Approx. roll weight

97 lbs / 44 kg

Approx. roll diameter

1.05 ft / 0.32 m

Core diameter

1.38 in / 35 mm

USAGE INSTRUCTIONS

Do not use against flames. Contact with organic solvents, halogens or highly acidic substances may reduce the service life of the fabric and void the warranty. Bival elastic material properties available on request.

SUGGESTED SPECIFICATION

Shade cloth fabric shall be compliant to Australian standard AS 4174:2018 and shall be GALE Pacific Commercial NinetyFive 340 FR

Knitted HDPE monofilament & tape shade fabric offering a UVE Protection from 90 to 96%

USA

P 1800 550 4667

F +61 407 772 0652

AU

P 1800 331 521

F +61 3 9516 3398

NZ

P 0800 555 171

F 0800 555 172

UAE

P +971 4 861 7114

F +971 4 861 7167

www.galecommercial.com

GALE PACIFIC

AMERICAN SOCIETY OF LANDSCAPE ARCHITECTS

AMERICAN SOCIETY OF LANDSCAPE ARCHITECTS

AMERICAN SOCIETY OF LANDSCAPE ARCHITECTS

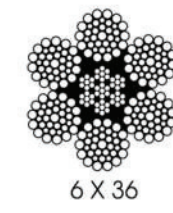
INTERNATIONAL ASSOCIATION OF ILLUMINATING ENGINEERS

INTERNATIONAL ASSOCIATION OF ILLUMINATING ENGINEERS

INTERNATIONAL ASSOCIATION OF ILLUMINATING ENGINEERS



7 x 19



6 X 36



Stainless Steel Wire Rope Clips



7X19 Stainless Steel Cable

Diameter (Inches)	Weight per 100ft (Lbs)	Nominal B.S. (Lbs)	
		AISI 302, 304	AISI 316
3/16	6.50	3,700	3,210
7/32	8.60	5,000	4,350
1/4	11.00	6,400	5,600
5/16	17.30	9,000	8,200
3/8	24.30	12,000	11,000

6X19/37 Class Stainless Steel Wire Rope

Diameter (Inches)	Weight per 100ft (Lbs)	Nominal B.S. (Lbs)	
		AISI 302, 304	AISI 316
7/16	35.0	16,300	14,800

Stainless Steel Wire Rope Clips

Precision Cast Type 316

Size (Inch)	Size (mm)	Min Clips Required	Weight (Lbs)
3/16	5	3	0.08
1/4	6	3	0.09
5/16	8	3	0.19
3/8	10	3	0.38
1/2	12	4	0.53
5/8	16	4	0.90
3/4	20	5	1.06

Stainless Steel Jaw & Jaw Turnbuckle

T316, Forged

Size X Take Up (Inch)	Working Load Limit (Lbs)	Weight per Each (Lbs)
1/4 x 4	500	0.528
5/16 x 4-1/2	800	0.726
3/8 x 6	1,200	0.880
1/2 x 12	2,200	2.394
5/8 x 12	3,500	4.664
3/4 x 12	5,200	7.042
1 x 12	8,000	11.24

SEAL:



DSA IDENTIFICATION STAMP



Shade

SUPERIOR SHADE
150 Adamson Industrial Blvd.
Carrollton, GA 30117

FABRIC CANOPIES DSA PC - BP
SPECIFICATION INFORMATION

COPYRIGHT:
THIS PLAN/DRAWING IS THE EXCLUSIVE
PROPERTY OF THE MANUFACTURER AND MAY
NOT BE USED OR REPRODUCED WHOLE OR
IN PART WITHOUT THE WRITTEN PERMISSION
FROM THE MANUFACTURER.

PC IDENTIFICATION STAMP

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

IDENTIFICATION STAMP

DIV. OF THE STATE ARCHITECT

APP: 02-120923 PC

REVIEWED FOR

SS ☒ FLS ☒ ACS ☒ CG ☐

DATE: 9/21/2023

SITE PROJECT NAME:

DISTRICT/OWNER:

LOCATION/ADDRESS:

Revisions

	Date:	By:
0	12/18/2022	KJK
1	8/16/2023	KJK

Drawn: KJK
Date: 12/8/2022
Chkd: Zhisong Zhao
Date: 1/19/2023

Job Number:

S5
Sheet No.

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

Application Number:

School Name:

School District:

DSA File Number:

Increment Number:

Date Created:

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 facets of construction, including but not limited to, special inspections not listed on this form such as structural wood framing, high-load wood diaphragms, 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

Periodic

Indicates that a periodic special inspection is required

Test

Indicates that a test is required

GE (Geotechnical Engineer)

Indicates that the special inspection shall be performed by a registered geotechnical engineer or his or her authorized representative.

LOR (Laboratory of Record)

Indicates that the test or special inspection shall be performed by a testing laboratory accepted in the DSA Laboratory Evaluation and Acceptance (LEA) Program. See CAC Section 4-335.

PI (Project Inspector)

Indicates that the special inspection may be performed by a project inspector when specifically approved by DSA.

SI (Special Inspection)

Indicates that the special inspection shall be performed by an appropriately qualified/approved special inspector.

DIVISION OF THE STATE ARCHITECT

DGS DSA 103-22 (Revised 12/01/2022)

DEPARTMENT OF GENERAL SERVICES

Page 1 of 10

STATE OF CALIFORNIA

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

Table 1705A.6, Table 1705A.7, Table 1705A.8

Application Number:

School Name:

School District:

DSA File Number:

Increment Number:

Date Created:

Geotechnical Reports: Project has a geotechnical report, or CD's indicate soils special inspection is required by GE

S1. GENERAL:

Test or Special Inspection

Type

Performed By

Code References and Notes

2

a. Verify that:
• Site has been prepared properly prior to placement of controlled fill and/or excavations for foundations.
• Foundation excavations are extended to proper depth and have reached proper material.
• Materials below footings are adequate to achieve the design bearing capacity.

Periodic

GE*

* By geotechnical engineer or his or her qualified representative. (See Appendix (end of this form) for exemptions.)

S2. SOIL COMPACTION AND FILL:

Test or Special Inspection

Type

Performed By

Code References and Notes

1

a. Perform classification and testing of fill materials.

Test

LOR*

* Under the supervision of the geotechnical engineer.

2

b. Verify use of proper materials, densities and inspect lift thicknesses, placement and compaction during placement of fill.

Continuous

GE*

* By geotechnical engineer or his or her qualified representative. (Refer to specific items identified in the Appendix (end of this form) for exemptions where soils testing may be conducted under the supervision of a geotechnical engineer or LOR's engineering manager. In such cases, the LOR's form DSA 291 shall satisfy the soil SI and test reporting requirements for the exempt items.)

2

c. Compaction testing.

Test

LOR*

* Under the supervision of the geotechnical engineer. (Refer to specific items identified in the Appendix (end of this form) for exemptions where soils testing may be conducted under the supervision of a geotechnical engineer or LOR's engineering manager. In such cases, the LOR's form DSA 291 shall satisfy the soil test reporting requirements for the exempt items.)

DIVISION OF THE STATE ARCHITECT

DGS DSA 103-22 (Revised 12/01/2022)

DEPARTMENT OF GENERAL SERVICES

Page 2 of 10

STATE OF CALIFORNIA

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

Table 1705A.6, Table 1705A.7, Table 1705A.8

Application Number:

School Name:

School District:

DSA File Number:

Increment Number:

Date Created:

S3. DRIVEN DEEP FOUNDATIONS (PILES):

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

Test or Special Inspection

Type

Performed By

Code References and Notes

2

a. Inspect drilling operations and maintain complete and accurate records for each pier.

Continuous

GE*

* By geotechnical engineer or his or her qualified representative. (See Appendix (end of this form) for exemptions.)

2

b. Verify pier locations, diameters, plumbness, bell diameters (if applicable), lengths and embedment into bedrock (if applicable), record concrete or grout volumes.

Continuous

GE*

* By geotechnical engineer or his or her qualified representative. (See Appendix (end of this form) for exemptions.)

2

c. Confirm adequate end strata bearing capacity.

Continuous

GE*

* By geotechnical engineer or his or her qualified representative. (See Appendix (end of this form) for exemptions.)

2

d. Concrete piers.

Provide tests and inspections per CONCRETE section below.

S5. RETAINING WALLS:

S6. OTHER SOILS:

DIVISION OF THE STATE ARCHITECT

DGS DSA 103-22 (Revised 12/01/2022)

DEPARTMENT OF GENERAL SERVICES

Page 3 of 10

STATE OF CALIFORNIA

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

Table 1705A.3, ACI 318-19 Sections 26.12 & 26.13

Application Number:

School Name:

School District:

DSA File Number:

Increment Number:

Date Created:

C1. CAST-IN-PLACE CONCRETE

Test or Special Inspection

Type

Performed By

Code References and Notes

2

a. Verify use of required design mix.

Periodic

SI

Table 1705A.3 Item 5, 1910A.1.

2

b. Identify, sample, and test reinforcing steel.

Test

LOR

1910A.2; ACI 318-19 Ch.20 and Section 26.6.1.2; DSA IR 17-10. (See Appendix (end of this form) for exemptions.)

2

c. During concrete placement, fabricate specimens for strength tests, perform slump and air content tests, and determine the temperature of the concrete.

Test

LOR

Table 1705A.3 Item 6; ACI 318-19 Sections 26.5 & 26.12.

2

d. Test concrete (f').

Test

LOR

1905A.1.17; ACI 318-19 Section 26.12.

1

e. Batch plant inspection:

See Notes

SI

Default of "Continuous" per 1705A.3.3. If approved by DSA, batch plant inspection may be reduced to "Periodic" subject to requirements in Section 1705A.3.3.1, or eliminated per 1705A.3.3.2. See IR 17-13. (See Appendix (end of this form) for exemptions.)

1

f. Welding of reinforcing steel.

Provide special inspection per STEEL, Category S/A4(d) & (e) and/or S/A5(g) & (h) below.

C2. PRESTRESSED / POST-TENSIONED CONCRETE (IN ADDITION TO SECTION C1):

C3. PRECAST CONCRETE (IN ADDITION TO SECTION C1):

C4. SHOTCRETE (IN ADDITION TO SECTION C1):

C5. POST-INSTALLED ANCHORS:

C6. OTHER CONCRETE:

DIVISION OF THE STATE ARCHITECT

DGS DSA 103-22 (Revised 12/01/2022)

DEPARTMENT OF GENERAL SERVICES

Page 4 of 10

STATE OF CALIFORNIA

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

1705A.2.1, Table 1705A.2.1; AISC 360-16, AISC 341-16, AISC 358-16, AISC 360-16; AISI S100-20; RCSC 2014; AWS D1.1, AWS D1.2, AWS D1.3, AWS D1.4, AWS D1.8

Application Number:

School Name:

School District:

DSA File Number:

Increment Number:

Date Created:

S/A1. STRUCTURAL STEEL, COLD-FORMED STEEL AND ALUMINUM USED FOR STRUCTURAL PURPOSES

Test or Special Inspection

Type

Performed By

Code References and Notes

2

a. Verify identification of all materials and:
• Mill certificates indicate material properties that comply with requirements.
• Material sizes, types and grades comply with requirements.

Periodic

*

Table 1705A.2.1 Item 3a, 3c; 2202A.1; AISI S100-20 Section A3.1.4 & A3.2; AISI S100-20 Section A3 & A5; AISI S220-20 Sections A4 & A6. * By special inspector or qualified technician when performed off-site.

2

b. Test unidentified materials.

Test

LOR

2202A.1.

2

c. Examine seam welds of HSS shapes.

Periodic

SI

DSA IR 17-3.

2

d. Verify and document steel fabrication per DSA-approved construction documents.

Periodic

SI

Not applicable to cold-formed steel light-frame construction, except for trusses (1705A.2.4).

1

e. Buckling restrained braces.

Test

LOR

Testing and special inspections in accordance with IR 22-4.

S/A2. HIGH-STRENGTH BOLTS:

S/A3. WELDING:

Test or Special Inspection

Type

Performed By

Code References and Notes

2

a. Verify weld filler material identification markings per AWS designation listed on the DSA-approved documents and the WPS.

Periodic

SI

1705A.2.5, Table 1705A.2.1 Items 4 & 5; AWS D1.1 and AWS D1.8 for structural steel; AWS D1.2 for Aluminum; AWS D1.3 for cold-formed steel; AWS D1.4 for reinforcing steel; DSA IR 17-3.

2

b. Verify weld filler material manufacturer's certificate of compliance.

Periodic

SI

DSA IR 17-3.

2

c. Verify WPS, welder qualifications and equipment.

Periodic

SI

DSA IR 17-3.

DIVISION OF THE STATE ARCHITECT

DGS DSA 103-22 (Revised 12/01/2022)

DEPARTMENT OF GENERAL SERVICES

Page 5 of 10

STATE OF CALIFORNIA

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

1705A.2.1, Table 1705A.2.1; AISC 360-16, AISC 341-16, AISC 358-16, AISC 360-16; AISI S100-20; RCSC 2014; AWS D1.1, AWS D1.2, AWS D1.3, AWS D1.4, AWS D1.8

Application Number:

School Name:

School District:

DSA File Number:

Increment Number:

Date Created:

S/A4. SHOP WELDING (IN ADDITION TO SECTION S/A3):

Test or Special Inspection

Type

Performed By

Code References and Notes

1

a. Inspect groove welds, multi-pass fillet welds, single pass fillet welds > 5/16", plug and slot welds.

Continuous

SI

Table 1705A.2.1 Items 5a.1, 4; AISC 360-16 (and AISC 341-16 as applicable); DSA IR 17-3.

2

b. Inspect single-pass fillet welds < 5/16", floor and roof deck welds.

Periodic

SI

1705A.2.2, Table 1705A.2.1 Items 5a.5 & 5a.6; AISC 360-16 (and AISC 341-16 as applicable); DSA IR 17-3.

1

c. Inspect welding of stairs and railing systems.

Periodic

SI

1705A.2.1, AISC 360-16 (and AISC 341-16 as applicable); AWS D1.1 & D1.3; DSA IR 17-3.

1

d. Verification of reinforcing steel weldability other than ASTM A706.

Periodic

SI

1705A.3.1, AWS D1.4; DSA IR 17-3. Verify carbon equivalent reported on mill certificates.

1

e. Inspect welding of reinforcing steel.

Continuous

SI

Table 1705A.2.1 Item 5b, 1705A.3.1, Table 1705A.3 Item 2, 1903A-8; AWS D1.4; DSA IR 17-3.

S/A5. FIELD WELDING (IN ADDITION TO SECTION S/A3):

S/A6. NONDESTRUCTIVE TESTING:

S/A7. STEEL JOISTS AND TRUSSES:

S/A8. SPRAYED FIRE-RESISTANT MATERIALS:

DIVISION OF THE STATE ARCHITECT

DGS DSA 103-22 (Revised 12/01/2022)

DEPARTMENT OF GENERAL SERVICES

Page 6 of 10

STATE OF CALIFORNIA

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

1705A.2.1, Table 1705A.2.1; AISC 360-16, AISC 341-16, AISC 358-16, AISC 360-16; AISI S100-20; RCSC 2014; AWS D1.1, AWS D1.2, AWS D1.3, AWS D1.4, AWS D1.8

Application Number:

School Name:

School District:

DSA File Number:

Increment Number:

Date Created:

S/A9. ANCHOR BOLTS AND ANCHOR RODS:

Test or Special Inspection

Type

Performed By

Code References and Notes

2

a. Anchor Bolts and Anchor Rods

Test

LOR

Sample and test anchor bolts and anchor rods not readily identifiable per procedures noted in DSA IR 17-11.

1

b. Threaded rod not used for foundation anchorage.

Test

LOR

Sample and test threaded rods not readily identifiable per procedures noted in DSA IR 17-11.

S/A10. STORAGE RACK SYSTEMS:

S/A11. Other Steel

DIVISION OF THE STATE ARCHITECT

DGS DSA 103-22 (Revised 12/01/2022)

DEPARTMENT OF GENERAL SERVICES

Page 7 of 10

STATE OF CALIFORNIA

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

Application Number:

School Name:

School District:

DSA File Number:

Increment Number:

Date Created:

Exempt items given in DSA IR A-22 or the 2019 CBC (including DSA amendments) and those items identified below with a check mark by the design professional are NOT subject to DSA requirements for the structural tests / special inspections noted. Items marked as exempt shall be identified on the approved construction documents. The project inspector shall verify all construction complies with the approved construction documents.

SOILS:

CONCRETE/MASONRY:

WELDING:

DIVISION OF THE STATE ARCHITECT

DGS DSA 103-22 (Revised 12/01/2022)

DEPARTMENT OF GENERAL SERVICES

Page 8 of 10

STATE OF CALIFORNIA

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

Application Number:

School Name:

School District:

DSA File Number:

Increment Number:

Date Created:

Name of Architect or Engineer in general responsible charge:

Name of Structural Engineer (When structural design has been delegated):

Signature of Architect or Structural Engineer:

Date:

Note: To facilitate DSA electronic mark-ups and identification stamp application, DSA recommends against using secured electronic or digital signatures.

DSA STAMP

DIVISION OF THE STATE ARCHITECT

DGS DSA 103-22 (Revised 12/01/2022)

DEPARTMENT OF GENERAL SERVICES

Page 9 of 10

STATE OF CALIFORNIA

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

Application Number:

School Name:

School District:

DSA File Number:

Increment Number:

Date Created:

1. Soils Testing and Inspection: Geotechnical Verified Report Form DSA 293

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

3. Concrete Batch Plant Inspection: Laboratory Verified Report Form DSA 291

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

DIVISION OF THE STATE ARCHITECT

DGS DSA 103-22 (Revised 12/01/2022)

DEPARTMENT OF GENERAL SERVICES

Page 10 of 10

STATE OF CALIFORNIA

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

DSA IDENTIFICATION STAMP

SUPERIOR RECREATIONAL PRODUCTS

Shade

SUPERIOR SHADE

150 Adamson Industrial Blvd.

Carrollton, GA 30117

FABRIC CANOPIES DSA PC - BP

EXAMPLE FORM DSA 103 -

TESTS & INSPECTIONS

COPYRIGHT:

THIS PLAN/DRAWING IS THE EXCLUSIVE PROPERTY OF THE MANUFACTURER AND MAY NOT BE USED OR REPRODUCED WHOLE OR IN PART WITHOUT THE WRITTEN PERMISSION FROM THE MANUFACTURER.

PC IDENTIFICATION STAMP

PRE-CHECK (PC) DOCUMENT

CODE: 2022 CBC

A separate project application for construction is required

IDENTIFICATION STAMP

DIV. OF THE STATE ARCHITECT

APP: 02-120923 PC

REVIEWED FOR

SS ☒ FLS ☒ ACS ☒ CG ☐

DATE: 9/21/2023

SITE PROJECT NAME:

DISTRICT/OWNER:

LOCATION/ADDRESS:

Revisions

Date:

By:

0

12/18/2022

KJK

1

8/16/2023

KJK

Drawn:

KJK

Date:

12/8/2022

Chkd:

Zhisong Zhao

Date:

1/19/2023

Job Number:

S6

Sheet No.

NOTE: SHADE STRUCTURES PROVIDED BY OWNER. CONTRACTOR TO BID FOOTINGS AND INSTALLATION ONLY.

APPLICABLE CODES AND STANDARDS

2022 California Administrative Code (CAC), Part 1, Title 24 CCR*
2022 California Building Code (CBC), Part 2, Title 24 CCR
(2021 International Building Code, Vol. 1 & 2, and 2022 California amendments)
2022 California Electrical Code (CEC), Part 3, Title 24 CCR
(2020 National Electrical Code and 2022 California Amendments)
2022 California Mechanical Code (CMC), Part 4, Title 24 CCR
(2021 IAPMO Uniform Mechanical Code and 2022 California amendments)
2022 California Plumbing Code (CPC), Part 5, Title 24 CCR
(2021 APMO Uniform Plumbing Code and 2022 California amendments)
2022 California Energy Code (CEC), Part 6, Title 24 CCR
2022 California Fire Code (CFC), Part 9, Title 24 CCR
(2021 International Fire Code and 2022 California Amendments)
2022 California Existing Building Code (CEBC), Part 10, Title 24 CCR
(2021 International Existing Building Code and 2022 California Amendments)
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
2019 ASME A17.1/CSA B44-13 Safety Code for Elevators and Escalators (per 2022 CBC Part 2 Ch 35)
Note: Cal/OSHA Elevator Unit enforces CCR Title 8 and uses the 2004 ASME A17.1 by adoption
NFPA 13 (2022) - Standard for the Installation of Sprinkler Systems (CA amended)
NFPA 14 (2019) - Standard for the Installation of Standpipe and Hose Systems (CA amended)
NFPA 17 (2021) - Standard for Dry Chemical Extinguishing Systems
NFPA 17A (2021) - Standard for Wet Chemical Extinguishing Systems
NFPA 20 (2019) - Standard for the Installation of Stationary Pumps for Fire Protection
NFPA 22 (2018) - Standard for Water Tanks for Private Fire Protection
NFPA 24 (2019) - Standard for the Installation of Private Fire Service Mains and Their Appurtenances (CA amended)
NFPA 72 (2022) - National Fire Alarm and Signaling Code (CA amended)
NFPA 80 (2019) - Standard for Fire Doors and Other Opening Protectives
NFPA 2001 (2018) - Standard on Clean Agent Fire Extinguishing Systems (CA amended)
UL 300 (2005, R2010) - Standard for Fire Testing of Fire Extinguishing Systems for Protection of Commercial Cooking Equipment
UL 464 (2003) - Audible Signaling Devices for Fire Alarm and Signaling Systems, Including Accessories
UL 521 (1999) - Standard for Heat Detectors for Fire Protective Signaling Systems
UL 1971 (2002, R2010) - Standard for Signaling Devices for the Hearing Impaired
ICC 300 (2017) - Standard for Bleachers, Folding and Telescopic Seating, and Grandstands

GENERAL NOTES

1. MATERIAL SPECIFICATIONS
1.A. SOIL (NO SOIL REPORT PROVIDED): SOIL BEARING PRESSURE = 1500 PSF AT 24" BELOW THE LOWEST GRADE. LATERAL BEARING PRESSURE = 200 PSF/FT (CLASS 5), INCREASED PER CBC SECTION 1806A.3.4. A SITE-SPECIFIC GEOTECHNICAL REPORT IS REQUIRED AT THE TIME OF SITE APPLICATION WHEN USING LOAD-BEARING VALUES ABOVE THE STATED MAXIMUMS FOR CLASS 5 SOIL. ALLOWABLE PIER FRICTIONAL UPLIFT CAPACITY = 250 PSF. 1/3 INCREASE FOR SHORT TERM LOADS IS NOT ALLOWED.
1.B. CONCRETE: f_c = 4,500 psi min. @ 28 DAYS (SPECIAL INSPECTION REQUIRED). CONCRETE SHALL BE MADE WITH TYPE V CEMENT, PLUS POZZOLAN OR SLAG CEMENT COMPLYING WITH FOOTNOTE 7 OF ACI 318 TABLE 19.3.2.1, WITH A WATER TO CEMENT RATIO NOT MORE THAN 0.45. SITE-SPECIFIC GEOTECHNICAL REPORT MUST BE PROVIDED IF A LOWER F₁ IS DESIRED. APPLICABLE EXPOSURE LEVELS = S2. CONCRETE EXPOSED TO FREEZING-AND-THAWING CYCLES SHALL BE AIR ENTRAINED PER ACI 318 SECTION 19.3.3. ADMIXTURES CONTAINING CALCIUM AND CHLORIDE ARE PROHIBITED. REINFORCING STEEL: ASTM A615, GRADE 60, EXCEPT STIRRUPS AND TIES SHALL BE GRADE 40. PLATE STEEL: ASTM A36, F_y = 36ksi
1.D. SQUARE TUBE, RECTANGULAR TUBE, & SCHEDULE PIPE: ASTM A500 GRADE B&C, F_y = 46 ksi
1.E. RAFTER AND STRUT TUBES: ASTM A500 GRADE B, Ø<3" F_y = 50 ksi, Ø≥3" 46 ksi. CORROSION PROTECTION SHALL BE TRIPLE COATED FLO-COAT® HOT-DIP GALVANIZED IN ACCORDANCE WITH ASTM A 1057/A1057M.
1.F. MACHINED BOLTS: ASTM F593C/304 OR F593D/304 (LOCK NUTS ARE REQUIRED).
1.H. LOCK NUTS: ASTM F594; ASME B18.16.6
1.I. SELF-TAP SCREWS: AISI 410 SS
1.J. ANCHOR BOLTS: ASTM F1554 GRADE 36 MINIMUM
1.K. ANCHOR NUTS: ASTM A563
1.L. CABLE STEEL: 7x19 OR 8x36 CLASS IWRC (TYPICALLY REFERRED TO AS AIRCRAFT CABLE), CABLE SHALL BE AISI 304 STAINLESS STEEL, ASTM A240.
NOMINAL CABLE STRENGTH FOR 3/16"Ø F_u = 3.7k, 1/4"Ø F_u = 6.4k, 5/16"Ø F_u = 9k, 3/8"Ø F_u = 12k, 7/16"Ø F_u = 16.3k.
ALLOWABLE STRENGTH FOR 3/16"Ø S_a = 1.23k, 1/4"Ø S_a = 2.18k, 5/16"Ø S_a = 3.07k, 3/8"Ø S_a = 4.09k, 7/16"Ø S_a = 6.3k.
MIN. PRETENSION FORCE ON 1/4"Ø = 0.10k, ON 5/16"Ø = 0.15k, ON 3/8"Ø = 0.20k, ON 7/16"Ø = 0.25k.
MAX. PRETENSION FORCE ON 1/4"Ø = 0.15k, ON 5/16"Ø = 0.23k, ON 3/8"Ø = 0.30k, ON 7/16"Ø = 0.35k.
WELDING ELECTRODES SHALL BE GMAW / SEMI-AUTOMATIC, GRADE E70S-6 PER AWS A-5.18
1.M. GROUT: NON-SHRINK, NON-METALLIC GROUT, SHALL MEET ASTM C1107, MIN. F_c = 5,000 psi
1.N. EXPOSED STEEL FASTENERS: ALL EXPOSED STEEL FASTENERS, INCLUDING CAST-IN-PLACE ANCHOR BOLTS/RODS, SHALL BE STAINLESS STEEL (TYPE 304 MINIMUM), OR HOT-DIP GALVANIZED (ASTM A153, CLASS D MINIMUM OR ASTM F2329 OR ASTM A325 HIGH STRENGTH)
2. WELDING
2.A. WORKMANSHIP AND TECHNIQUE OF WELDING ARE TO CONFORM TO THE 2022 C.B.C. SECTION 2204A.1. ALL WELDS SHALL BE INSPECTED IN ACCORDANCE WITH THE APPLICABLE REQUIREMENTS OF THE 2022 C.B.C. CHAPTER 17A, SECTION 1705A.2.5
3. CABLE CLIPS & TURNBUCKLES
3.A. CABLE CLIPS SHALL BE FORGED STEEL PER FEDERAL SPECIFICATION FF-C-450 TYPE 1, CLASS 1 INSTALLED WITH THE U-BOLT ON THE CABLE DEPENDENT END (SEE SPECIFICATION SHEET ON FINAL SHEET OF THIS SUBMITTAL). CABLE CLIPS WILL DEVELOP THE ALLOWABLE STRENGTH OF THE CABLE WHEN PROPER QUANTITY AND BOLT TORQUE IS USED.
3.B. 3/16"Ø CABLE REQUIRES A MINIMUM OF 3 CLIPS, 1/4"Ø CABLE REQUIRES A MINIMUM OF 3 CLIPS, 5/16"Ø CABLE REQUIRES A MINIMUM OF 3 CLIPS, 3/8"Ø CABLE REQUIRES A MINIMUM OF 3 CLIPS, AND 7/16"Ø CABLE REQUIRES A MINIMUM OF 4 CLIPS.
3.C. BOLT TORQUE FOR 3/16" Ø CABLE CLIPS = 7 lb-ft, FOR 1/4"Ø CABLE CLIPS = 15 lb-ft, FOR 5/16"Ø CABLE CLIPS = 30lb-ft, FOR 3/8"Ø CABLE CLIPS = 45lb-ft, FOR 7/16"Ø CABLE CLIPS = 65lb-ft.
TURNBUCKLES SHALL BE AISI T316 STAINLESS STEEL. ALLOWABLE STRENGTH FOR 1/2"Ø S_a = 1.54k, 5/8"Ø S_a = 2.46k, FOR 3/4"Ø S_a = 3.52k.
4. BOLT HOLES
4.A. ANCHOR BOLT HOLE DIAMETERS SHALL BE 1/8" LARGER THAN THE BOLT DIAMETER. ALL OTHER CONNECTION BOLT HOLE DIAMETERS SHALL BE 1/16" LARGER THAN THE BOLT DIAMETER
5. CORROSION PROTECTION
5.A. ALL STEEL MEMBERS (U.N.O.) SHALL BE POWDER COATED WITH A ZINC RICH PRIMER AND TGIC POLYESTER TOP COAT MEETING ASTM B117, ASTM D2247, AND ASTM D4587-05
6. FABRIC MATERIAL
6.A. FABRIC MATERIAL SHALL BE COMMERCIAL NINETYFIVE 340 FR FABRIC
6.B. MAXIMUM MODULUS OF ELASTICITY = 138 psi
6.C. THE FABRIC SHALL BE MANUFACTURED FROM HIGH DENSITY POLYETHYLENE POLYMER
6.D. NOMINAL WEIGHT = 10 oz/yd²
6.E. MIN. ULTIMATE BREAKING STRENGTH PER ASTM D 5034: WARP = 158.6 lbs, WEFT = 412.3 lbs
6.F. MAX. ELONGATION: WARP = 49%, WEFT = 89%
6.G. MIN. ULTIMATE TEAR STRENGTH PER ASTM D 2261: WARP = 43.0 lbf, WEFT =39.6 lbf
6.H. ALLOWABLE STRENGTH OF SEAMS: 67.3 lb/in
6.I. FIRE RETARDANT RATING PER CSFM - TITLE 19, (LICENSE # : F-037801).
6.J. FABRIC SHADE STRUCTURES SHALL COMPLY WITH THE APPLICABLE PROVISIONS OF CBC SECTION 3102 AND 3105
6.K. FABRIC MATERIAL SHALL COMPLY WITH CBC SECTIONS 3102.3.1, 3105.3, AND CCR, TITLE 19, DIVISION 1, CHAPTER 8
7. QUALITY CONTROL
7.A. QUALITY CONTROL PERFORMED BY THE SUPPLIER SHALL INCLUDE VISUAL AND/OR INSTRUMENTED VERIFICATION OF THE FOLLOWING ASPECTS, IF APPLICABLE: MATERIAL TRACEABILITY, WELD QUALITY, DIMENSIONAL ACCURACY, COATINGS, ASSEMBLY, PACKING, AND SHIPPING.
7.B. ALL MANUFACTURER PERSONNEL SHALL RECEIVE TRAINING AS MANDATED BY SUPERIOR RECREATIONAL PRODUCTS. QUALITY PERSONNEL WILL BE CONTINUALLY TRAINED, INCLUDING PROCESS AUDITS THROUGHOUT THE PRODUCT REALIZATION. QUALITY ASSURANCE AUDITS SHALL BE PERFORMED UNDER THE DIRECT SUPERVISION OF AN SRP AND LADBS CERTIFIED INSPECTOR.
7.C. ALL WELDED STEEL PRODUCTS SHALL RECEIVE QUALITY ASSURANCE AUDITS AFTER WELDING TO ENSURE DIMENSIONAL ACCURACY AND WELD QUALITY. PAINTED STEEL PRODUCTS SHALL RECEIVE RANDOM QUALITY ASSURANCE AUDITS USING A FILM THICKNESS GAUGE 250 TIMES PER DAY ON PRIMER COAT AND 250 PER DAY ON TOP COAT TO ENSURE PROPER COATING THICKNESS. STANDARDS FOR EXECUTION OF THE WORK SHALL FOLLOW SUPERIOR RECREATIONAL PRODUCTS' WORK INSTRUCTIONS, QUALITY PROCEDURES, AND DSA APPROVED SEALED DRAWINGS. MANUFACTURER SHALL ADHERE TO DIMENSIONAL TOLERANCES AS SPECIFIED ON APPLICABLE DRAWINGS AND DOCUMENTATION.
7.D. STANDARDS FOR EXECUTION OF THE WORK SHALL FOLLOW SUPERIOR RECREATIONAL PRODUCTS' WORK INSTRUCTIONS, QUALITY PROCEDURES, AND DSA APPROVED SEALED DRAWINGS. MANUFACTURER SHALL ADHERE TO DIMENSIONAL TOLERANCES AS SPECIFIED ON APPLICABLE DRAWINGS AND DOCUMENTATION.
8. STANDARD NOTES
8.A. ALL WORK SHALL CONFORM TO 2022 EDITION TITLE 24, CALIFORNIA CODE OF REGULATIONS (CCR) 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
8.B. A "DSA CERTIFIED" PROJECT INSPECTOR EMPLOYED BY THE DISTRICT (OWNER) AND APPROVED BY DSA SHALL PROVIDE CONTINUOUS INSPECTION OF THE WORK. THE DUTIES OF THE INSPECTOR ARE DEFINED IN SECTION 4-342, PART 1, TITLE 24, CCR
8.C. A DSA ACCEPTED TESTING LABORATORY DIRECTLY EMPLOYED BY THE DISTRICT (OWNER) SHALL CONDUCT ALL THE REQUIRED TESTS AND INSPECTIONS FOR THE PROJECT
8.D. A DSA ACCEPTED TESTING LABORATORY DIRECTLY EMPLOYED BY THE DISTRICT (OWNER) SHALL CONDUCT ALL THE REQUIRED TESTS AND INSPECTIONS FOR THE PROJECT
8.E. SUBSTITUTIONS AFFECTING DSA REGULATED ITEMS SHALL BE CONSIDERED AS A CONSTRUCTION CHANGE DOCUMENT OR ADDENDUM, AND SHALL BE APPROVED BY DSA PRIOR TO FABRICATION AND INSTALLATION PER DSA IR A-6 AND SECTION 338(c) PART 1, TITLE 24 CCR.
8.F. THE INTENT OF THIS SECTION 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 TITLE 24, 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 BEFORE PROCEEDING WITH THE WORK. (SECTION 4-317(i), PART 1, TITLE 24, CCR)
8.G. GRADING PLANS, DRAINAGE IMPROVEMENTS, ROAD AND ACCESS REQUIREMENTS AND ENVIRONMENTAL HEALTH CONSIDERATIONS SHALL COMPLY WITH ALL LOCAL ORDINANCES.
8.H. AS PER IR PC-4 1.7: FLOOD ZONE: DESIGN SHALL COMPLY WITH CBC SECTION 1512A AND PROCEDURE PR 14-01: FLOOD DESIGN AND PROJECT SUBMITTAL REQUIREMENTS: WHEN A SITE-SPECIFIC PROJECT IS LOCATED IN A FLOOD ZONE OTHER THAN ZONE X A LETTER STAMPED AND SIGNED FROM A GEOTECHNICAL ENGINEER IS NEEDED TO VALIDATE THE ALLOWABLE SOIL VALUES SPECIFIED IN THE PC ARE STILL APPLICABLE.
8.I. AS PER IR PC-4 1.8: GEOHAZARD REPORTS: GEOHAZARD REPORTS ARE NOT REQUIRED FOR OPEN FABRIC SHADE STRUCTURES 1,600 SQUARE FEET (SQ. FT.) OR LESS COMPLYING WITH THE REQUIREMENTS OF IR A-4: GEOHAZARD REPORT REQUIREMENTS, SECTION 3.1.1. OPEN FABRIC SHADE STRUCTURES GREATER THAN 1,600 SQ. FT. UP TO A MAXIMUM OF 4,000 SQ. FT. AND COMPLYING WITH THE REQUIREMENTS NOTED IN IR A-4 SECTION 3.1.1 DO NOT REQUIRE A GEOHAZARD REPORT PROVIDED A GEOTECHNICAL REPORT INDICATES THAT NO LIQUEFACTION POTENTIAL EXISTS.
8.J. AS PER IR PC-4 5.7: PIER & SHALLOW SPREAD FOOTINGS MAY BE COMBINED WITHIN THE SAME SHADE STRUCTURE IF ALL COLUMNS IN THE SHADE STRUCTURE HAVE THE SAME HEIGHT.
8.K. SHADE STRUCTURE APPROVAL FOR WILDLAND-URBAN INTERFACE PER CBC 7A TO BE FIELD VERIFIED. THIS PC HAS NOT BEEN APPROVED FOR USE IN A FIRE HAZARD SEVERITY ZONE PER CBC CHAPTER 7A.
8.L. MINIMUM SETBACK LIMIT FOR THE SHADE STRUCTURES AS PER FIGURE 1:

INDEX (Sheet Count: 6)

#	Drawing Title
S1A	COVER SHEET AND NOTES
S2A	ELEVATION DETAILS
S3A	TYPICAL DETAILS
S4A	REFERENCE TABLES
S5A	SPECIFICATION INFORMATION
S6A	EXAMPLE FORM DSA 103 - TESTS & INSPECTIONS

DESIGN PARAMETER CHECKLIST FOR OVER-THE-COUNTER REVIEW

THIS PROJECT IS NOT OTC

THE FOLLOWING CHECKLIST IS INTENDED TO ASSIST THE PLAN REVIEWER DETERMINE IF THIS PRE-CHECKED SUBMITTAL IS APPLICABLE TO THE SITE-SPECIFIC CONDITIONS IN WHICH IT IS INTENDED TO BE USED. IF THIS CHECKLIST CANNOT BE COMPLETED, ADDITIONAL ENGINEERING PROVING SITE-SPECIFIC COMPLIANCE IS REQUIRED.

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

☐ THE CONSTRUCTION TYPE IS "IIB"

☐ THE RISK CATEGORY IS "II" OR LESS

☐ THE WIND EXPOSURE CATEGORY IS "C" OR LESS

☐ THE SOIL CLASS IS "D" OR BETTER

☐ THE PROJECT SITE BASIC ULTIMATE WIND SPEED IS ≤ 110 mph

☐ THE PROJECT SITE SEISMIC DESIGN CATEGORY IS "E" OR LESS

☐ THE PROJECT SITE IS NOT IN A FLOOD ZONE (WHEN A SITE-SPECIFIC PROJECT IS LOCATED IN A FLOOD ZONE OTHER THAN ZONE X A LETTER STAMPED AND SIGNED FROM GEOTECHNICAL ENGINEER IS NEEDED TO VALIDATE THE ALLOWABLE SOIL VALUES SPECIFIED IN PC ARE STILL APPLICABLE)

☐ THE PROJECT SITE IS NOT IN AN AREA CLASSIFIED AS A WILD LAND URBAN INTERFACE FIRE AREA (A FIRE HAZARD SEVERITY ZONE)

☐ NONE OF THE MAXIMUM DESIGN CRITERIA ARE EXCEEDED

☐ ALLOWABLE SOIL COMPRESSIVE STRENGTH IS 1,500 psf OR GREATER

☐ LATERAL BEARING PRESSURE SHALL BE 200 PSF/FT (INCREASED PER CBC SECTION 1806A.3.4) OR GREATER

☐ PIER FRICTIONAL RESISTANCE SHALL BE LARGER THAN USED IN DESIGN

☐ IF THE CANOPY SIZE IS < 1,600 ft² IN AREA, COMPLYING WITH THE REQUIREMENTS OF DSA IR A-4 SECTION 3.1.1, SUPPORTED ON ALL CORNERS (3 COLUMNS MINIMUM), A SITE-SPECIFIC GEOHAZARD REPORT IS NOT REQUIRED -OR-
IF THE CANOPY SIZE IS < 4,000 ft² IN AREA AND THERE IS A GEOTECHNICAL REPORT PROVING THAT NO POTENTIAL FOR LIQUEFACTION EXISTS, A SITE-SPECIFIC GEOHAZARD REPORT IS NOT REQUIRED

☐ THE CANOPY SIZE PROVIDES THE MINIMUM REQUIRED AREA FOR THE SELECTED ASSEMBLY USE AND DESIRED OCCUPANCY LOAD (SEE ASSEMBLY USE SELECTION CHECKLIST)

OCCUPANCY USE SELECTION CHECKLIST

THE FOLLOWING CHECKLIST IS TO BE USED BY THE PARTY SUBMITTING THIS PRE-CHECK TO INDICATE THE INTENDED OCCUPANCY USE FOR THIS FABRIC CANOPY.

☒ ASSEMBLY GROUP A-2
☐ ASSEMBLY GROUP A-3
☐ BUSINESS GROUP B
☐ EDUCATIONAL GROUP E
INTENDED OCCUPANCY LOAD = 10 EA PERSONS

SITE-SPECIFIC CODE ANALYSIS

THIS SECTION IS TO BE FILLED OUT BY THE ARCHITECT OF RECORD FOR SITE-SPECIFIC APPROVAL
TYPE OF CONSTRUCTION: TYPE IIB
FIRE SPRINKLER: NO
ALLOWABLE AREA = 9500 ft²

CODE ANALYSIS

OCCUPANCY GROUP	OCCUPANT LOAD FACTOR	TOTAL OCCUPANT LOAD	SHADE STRUCTURE AREA (ft ²)
A-2	15	13 EACH	196 SF EA.

NOTE: THE INTENDED USE AND OCCUPANCY TO BE SPECIFIED ON SITE-SPECIFIC APPLICATION DRAWINGS.

CANTILEVER UMBRELLA STYLE SIZE

☐ 10'
☒ 14'
☐ 20'

HEIGHT

☐ 9'
☒ 10'
☐ 12'

FIG. 1: FOUNDATION CLEARANCES FROM SLOPE

SEAL:

DSA IDENTIFICATION STAMP

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 01-122796 INC:
REVIEWED FOR
SS ☒ FLS ☒ ACS ☒
DATE: 08/21/2026

SUPERIOR

RECREATIONAL PRODUCTS

Shade

SUPERIOR SHADE

150 Adamson Industrial Blvd.
Carrollton, GA 30117

FABRIC CANOPIES DSA PC - CU COVER SHEET

COPYRIGHT:
THIS PLAN/DRAWING IS THE EXCLUSIVE PROPERTY OF THE MANUFACTURER AND MAY NOT BE USED OR REPRODUCED WHOLE OR IN PART WITHOUT THE WRITTEN PERMISSION FROM THE MANUFACTURER.

PC IDENTIFICATION STAMP

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

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-120866 PC
REVIEWED FOR
SS ☒ FLS ☒ ACS ☒ CBC ☐
DATE: 8/4/2023

SITE PROJECT NAME:

DISTRICT/OWNER:

LOCATION/ADDRESS:

Revisions

	Date:	By:
0	1/1/2023	KJK
1	5/4/2023	KJK

Drawn: KJK

Date: 11/27/2022

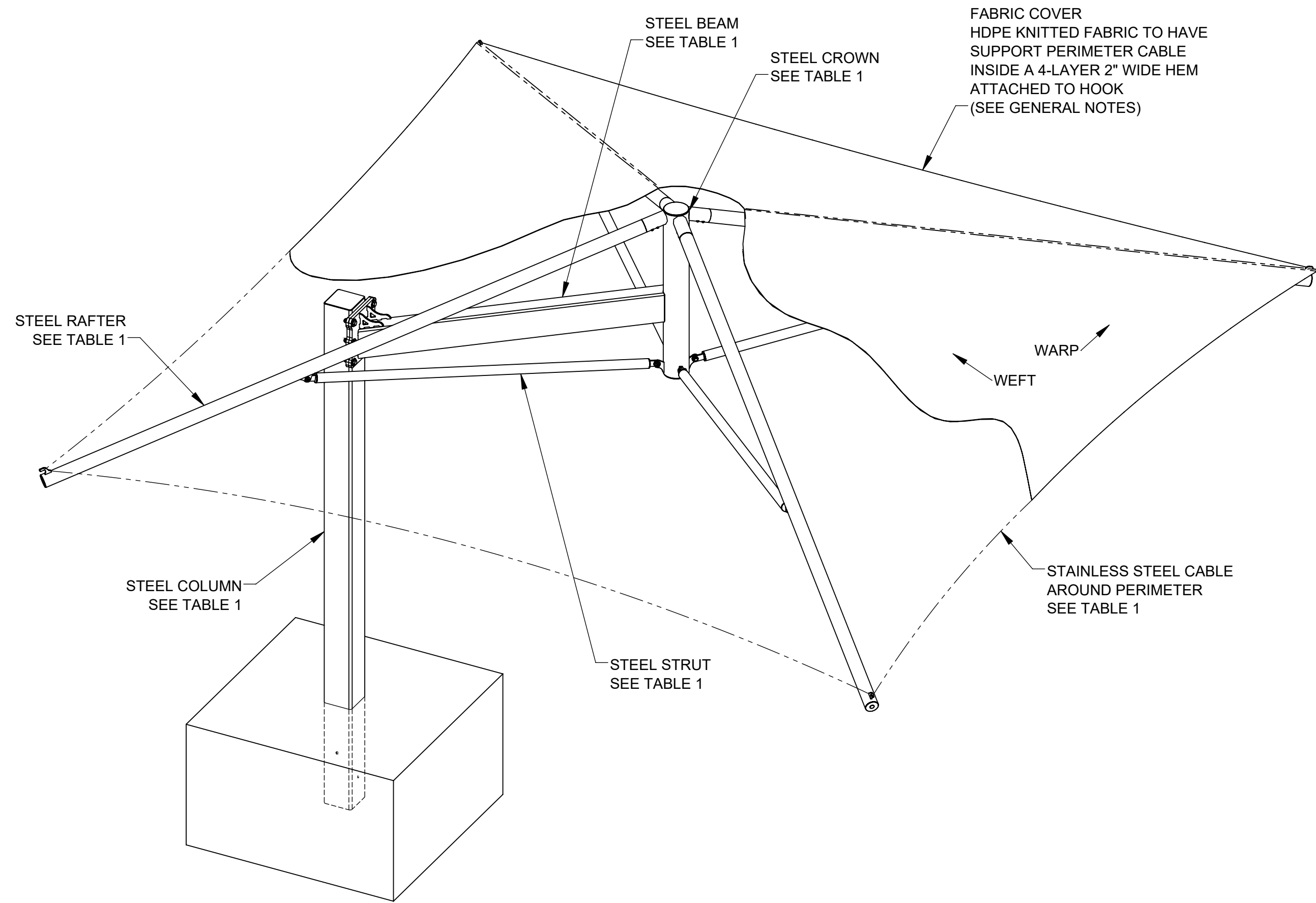
Chkd: Zhisong Zhao

Date: 1/1/2023

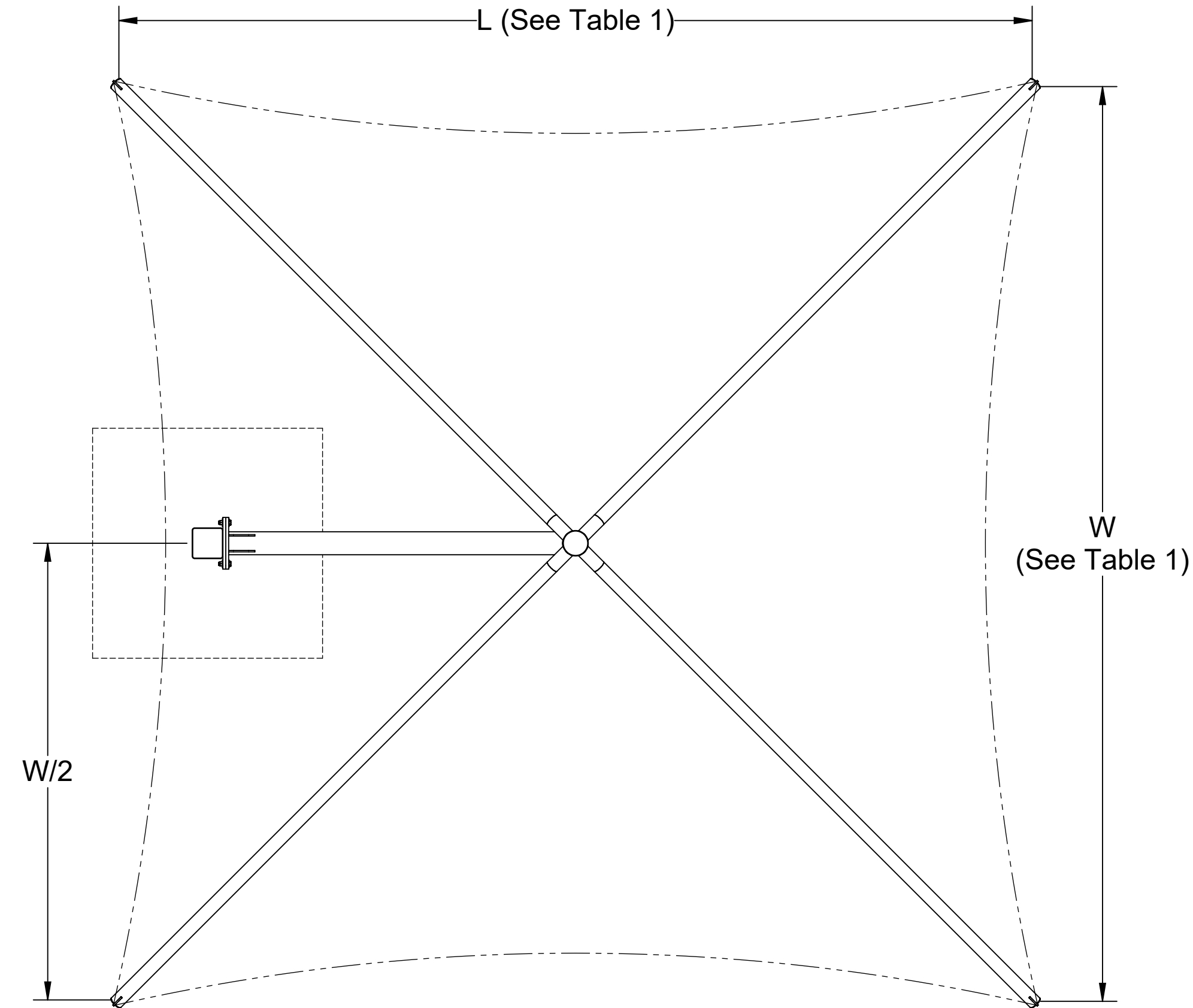
Job Number:

S1A

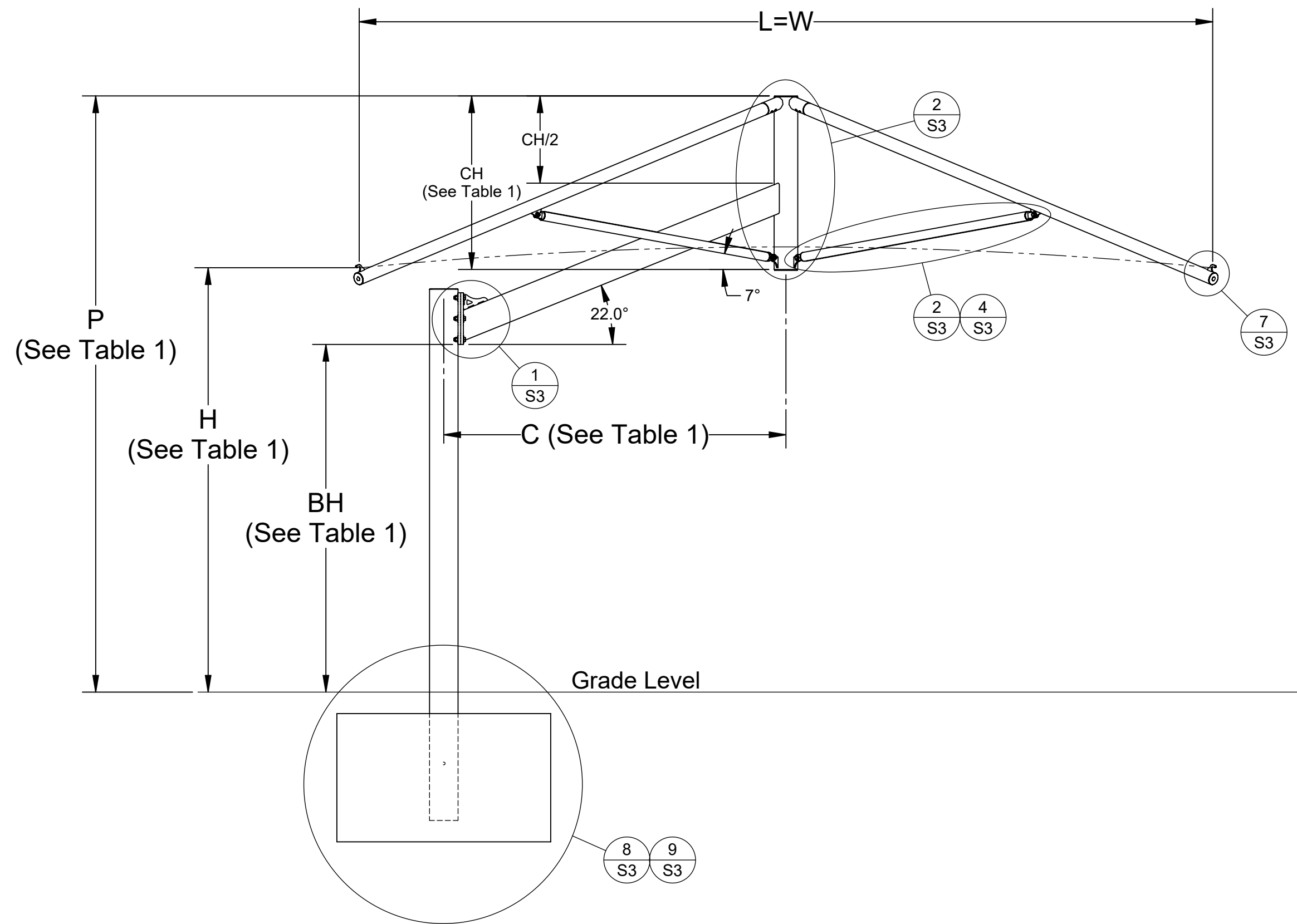
Sheet No.



1 CANTILEVER UMBRELLA SHADE STRUCTURE
S2



2 FRAME PLAN VIEW
S2



3 FRAME ELEVATION VIEW
S2

SEAL:



DSA IDENTIFICATION STAMP

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT

APP: 01-122796 INC:
REVIEWED FOR

SS ☒ FLS ☒ ACS ☒

DATE: 08/21/2026



SUPERIOR SHADE
150 Adamson Industrial Blvd.
Carrollton, GA 30117

FABRIC CANOPIES DSA PC - CU
ELEVATION DETAILS

COPYRIGHT:
THIS PLAN/DRAWING IS THE EXCLUSIVE
PROPERTY OF THE MANUFACTURER AND MAY
NOT BE USED OR REPRODUCED WHOLE OR
IN PART WITHOUT THE WRITTEN PERMISSION
FROM THE MANUFACTURER.

PC IDENTIFICATION STAMP

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

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT

APP: 02-120866 PC
REVIEWED FOR

SS ☒ FLS ☒ ACS ☒ CE ☐

DATE: 8/4/2023

SITE PROJECT NAME:

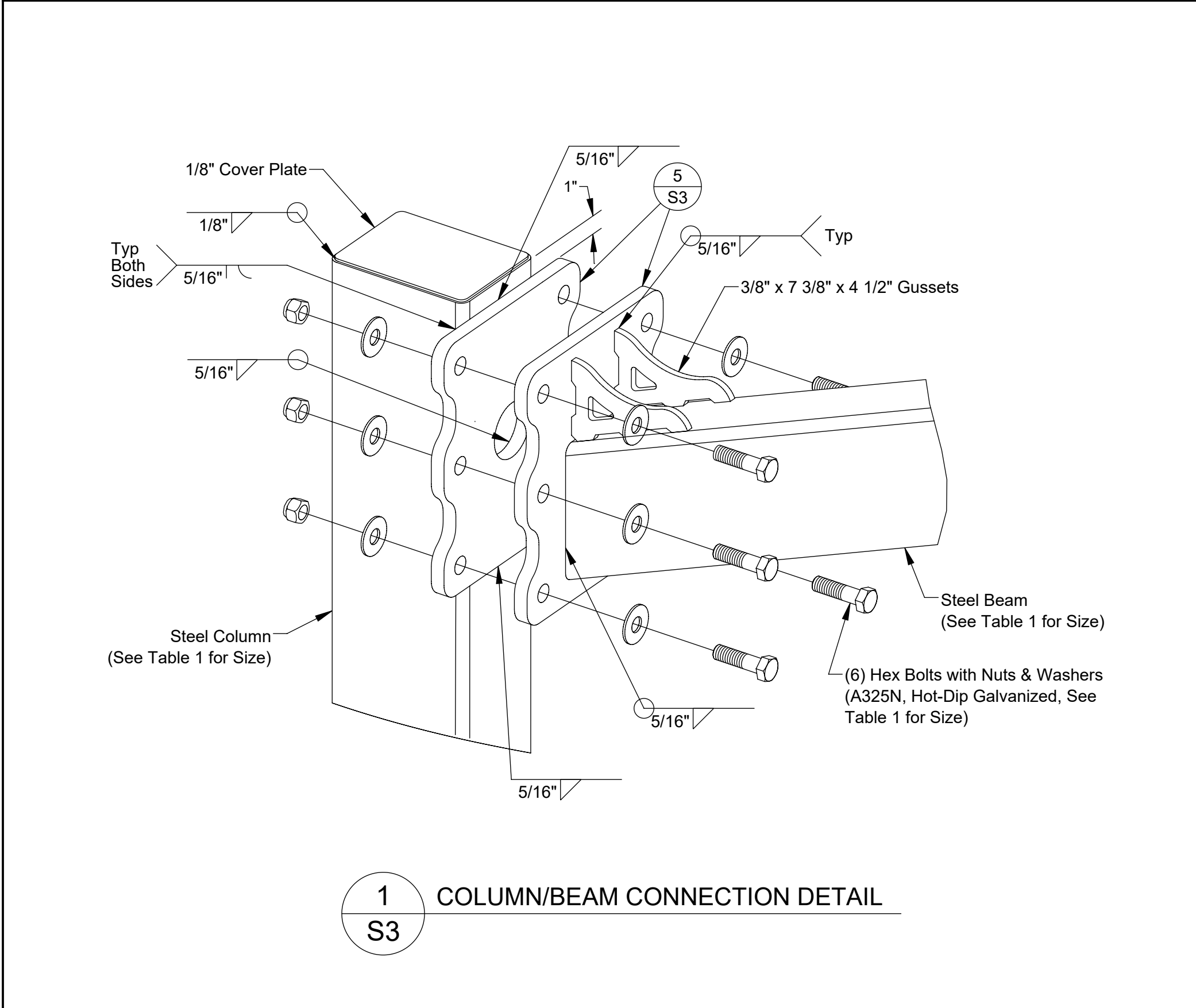
DISTRICT/OWNER:

LOCATION/ADDRESS:

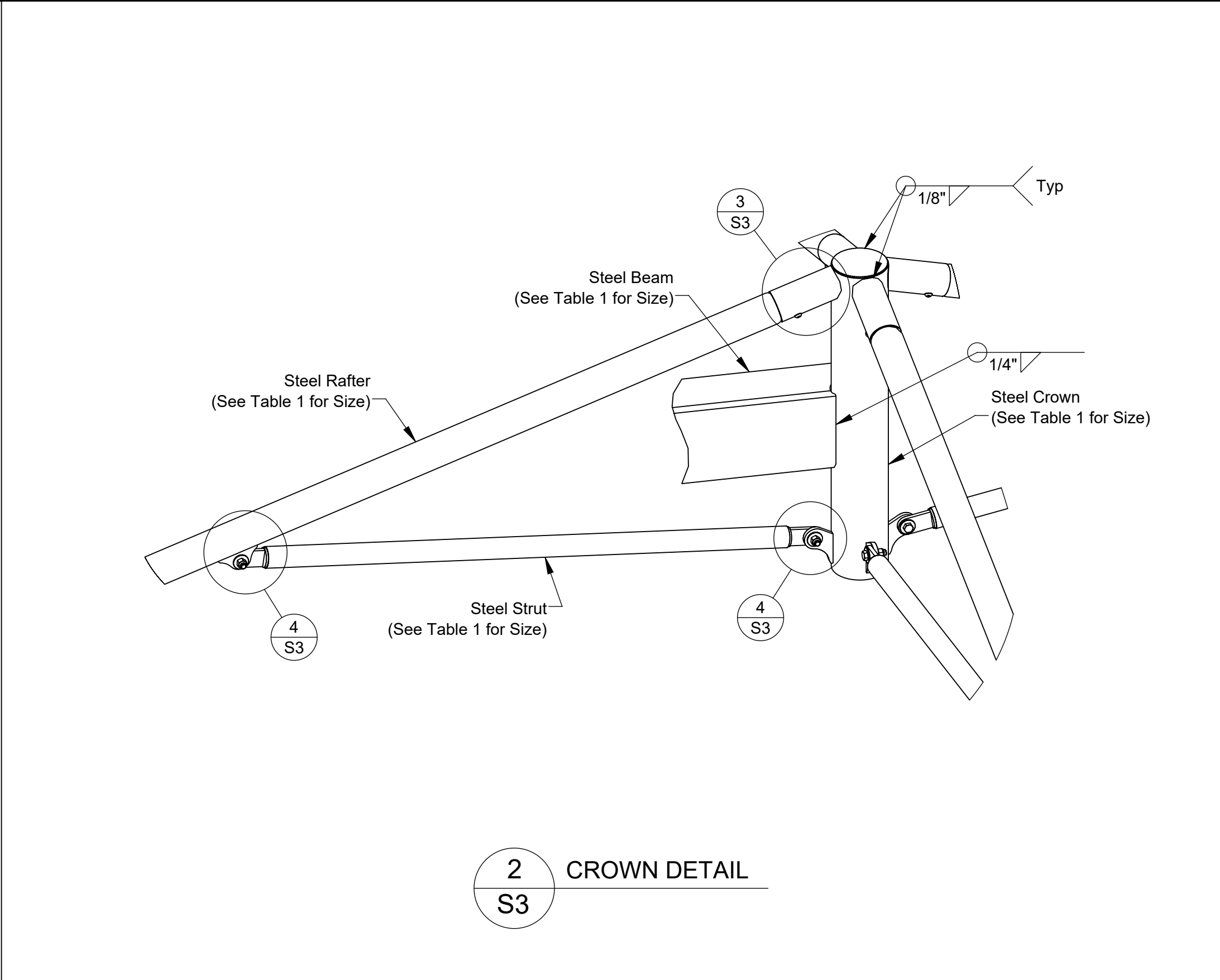
Revisions		
	Date:	By:
0	1/1/2023	KJK
1	5/4/2023	KJK

Drawn:	KJK
Date:	11/27/2022
Chkd:	Zhisong Zhao
Date:	1/1/2023
Job Number:	

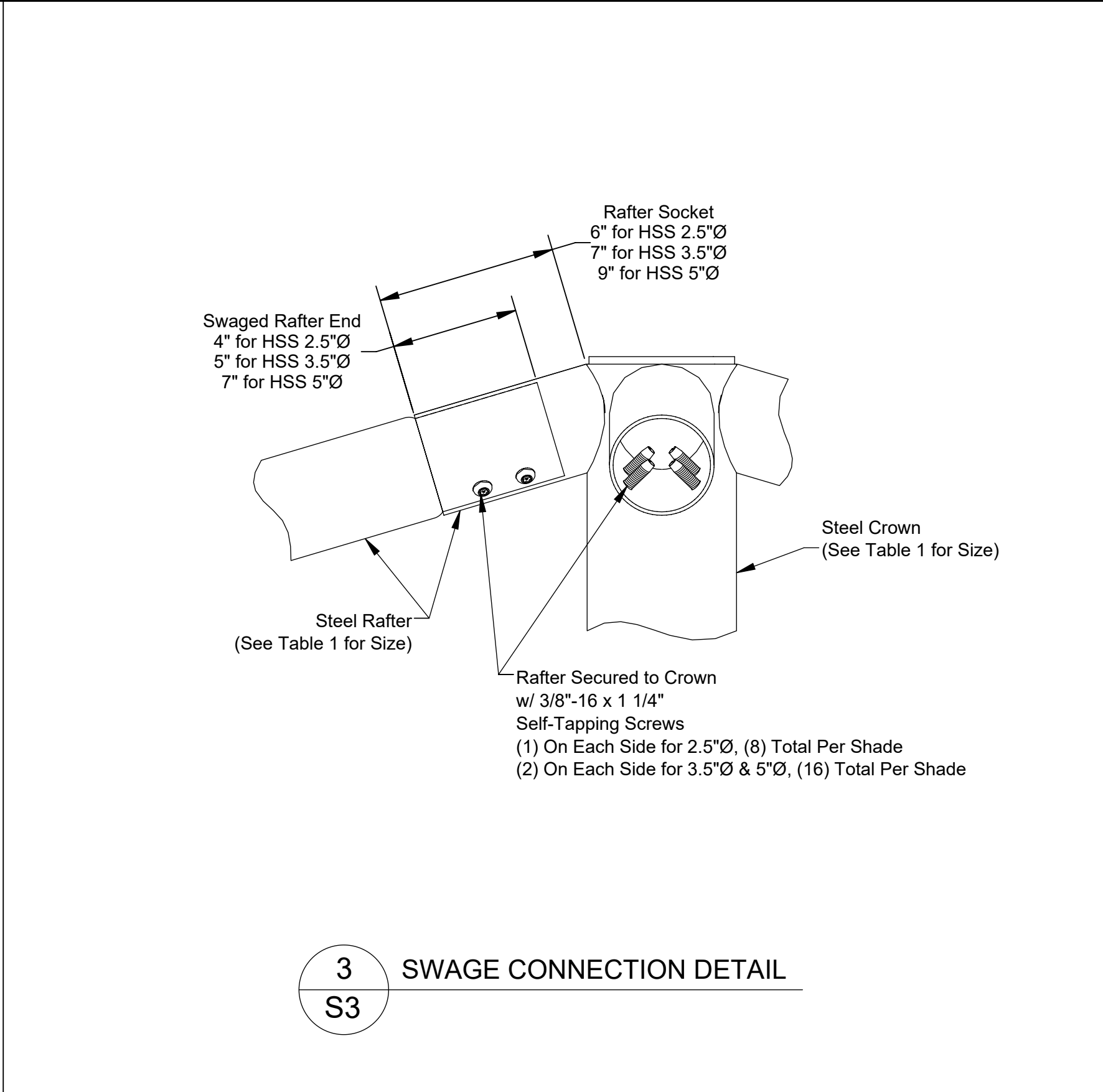
S2A
Sheet No.



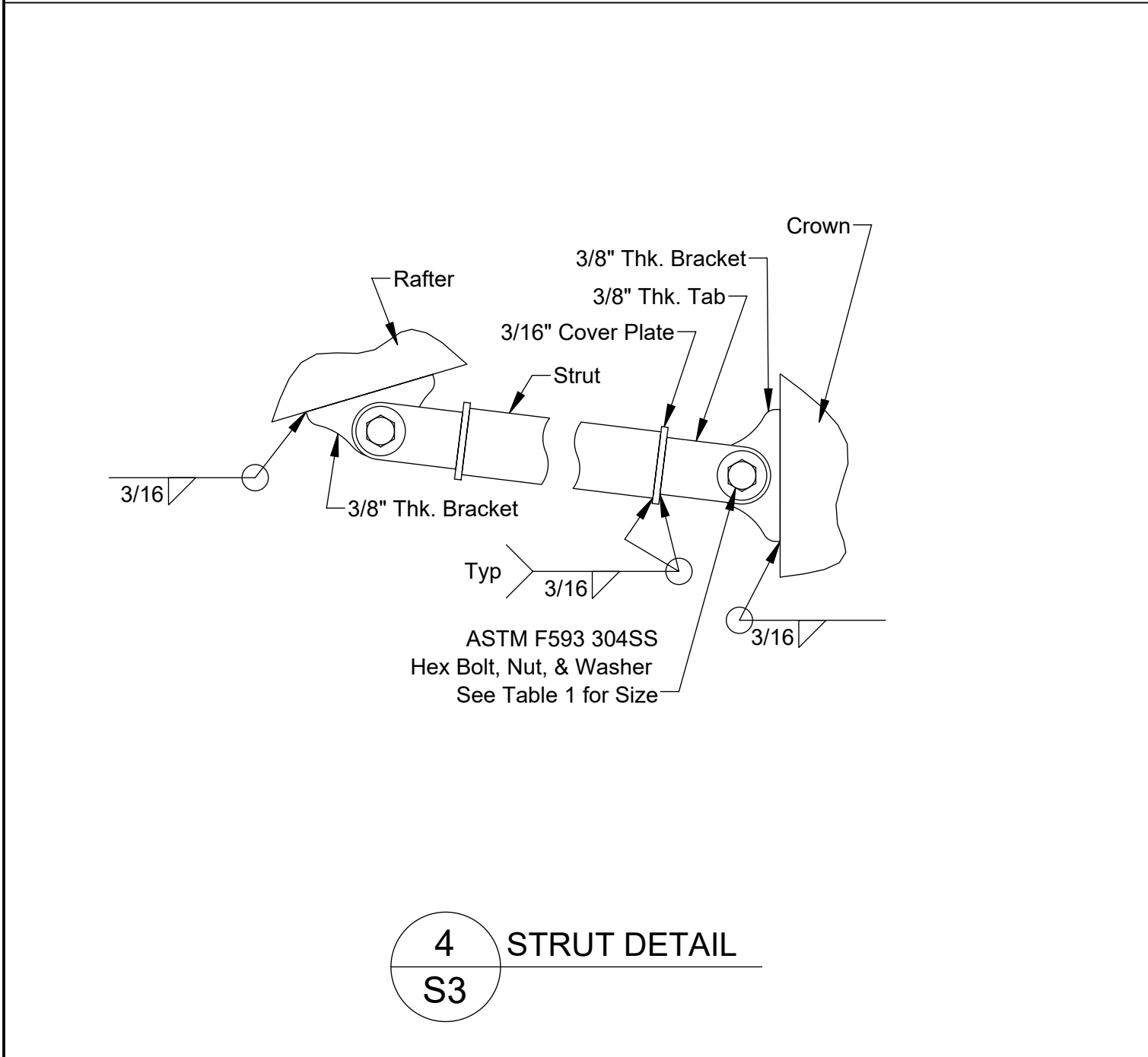
1 COLUMN/BEAM CONNECTION DETAIL
S3



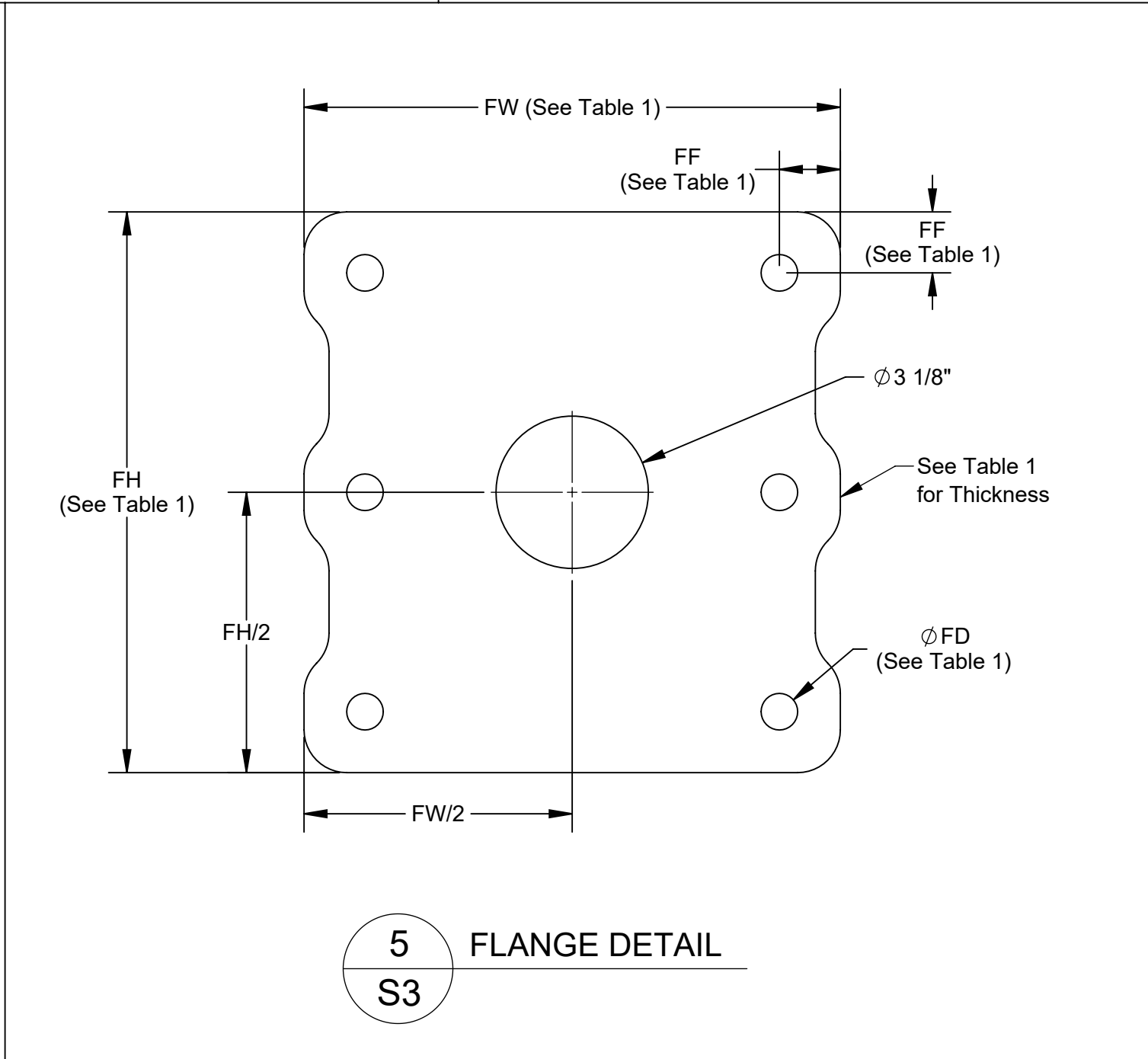
2 CROWN DETAIL
S3



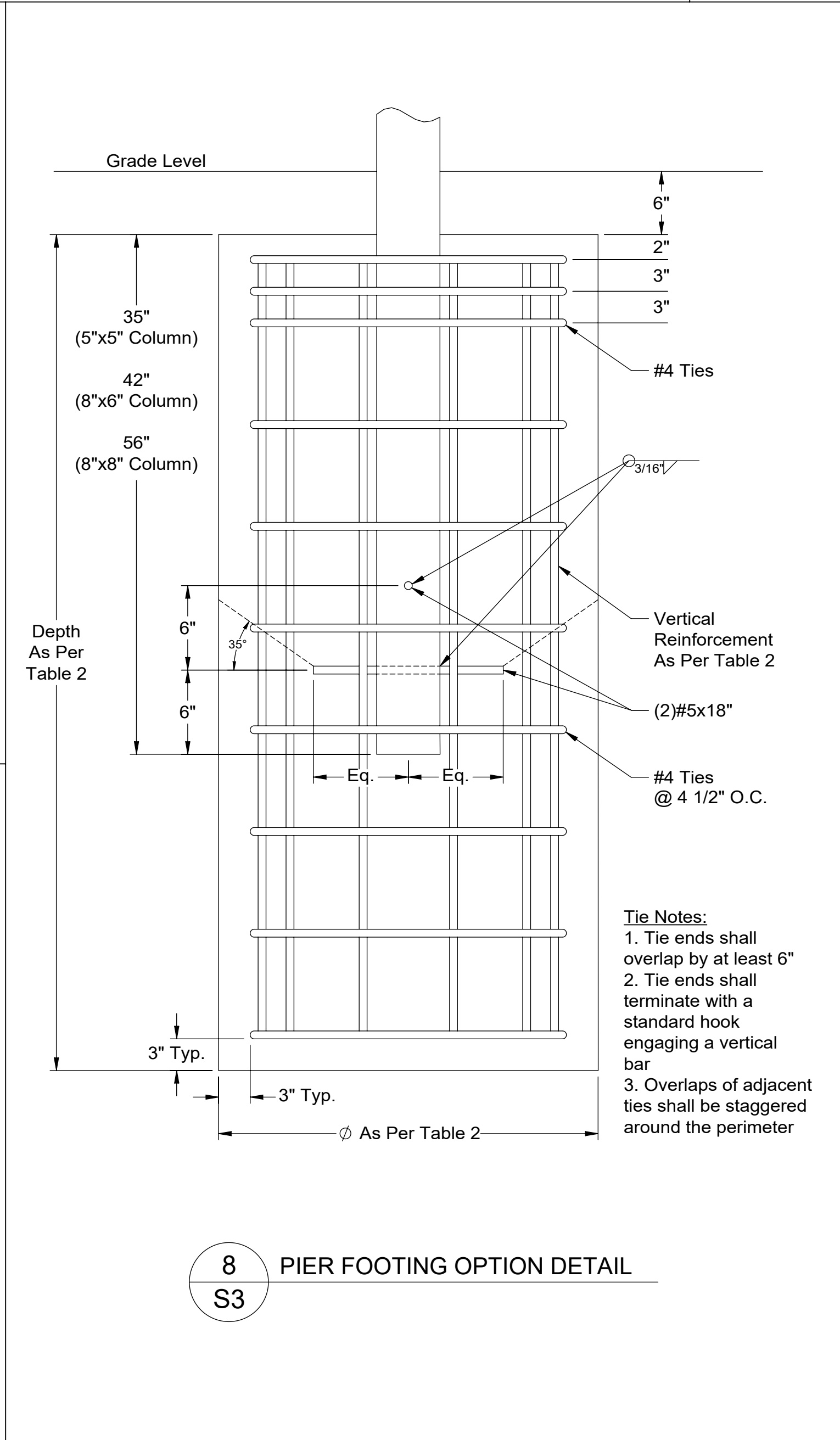
3 SWAGE CONNECTION DETAIL
S3



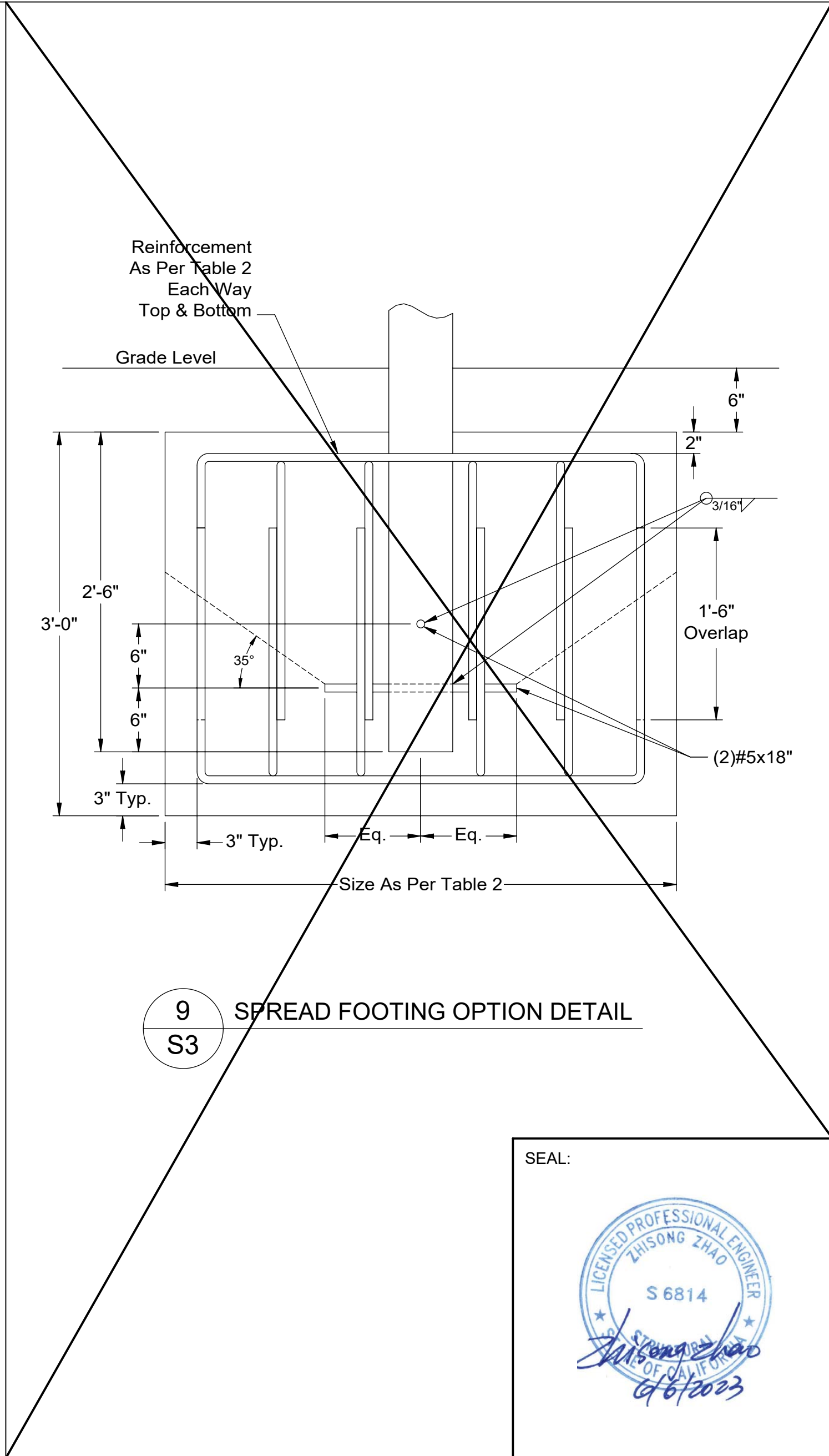
4 STRUT DETAIL
S3



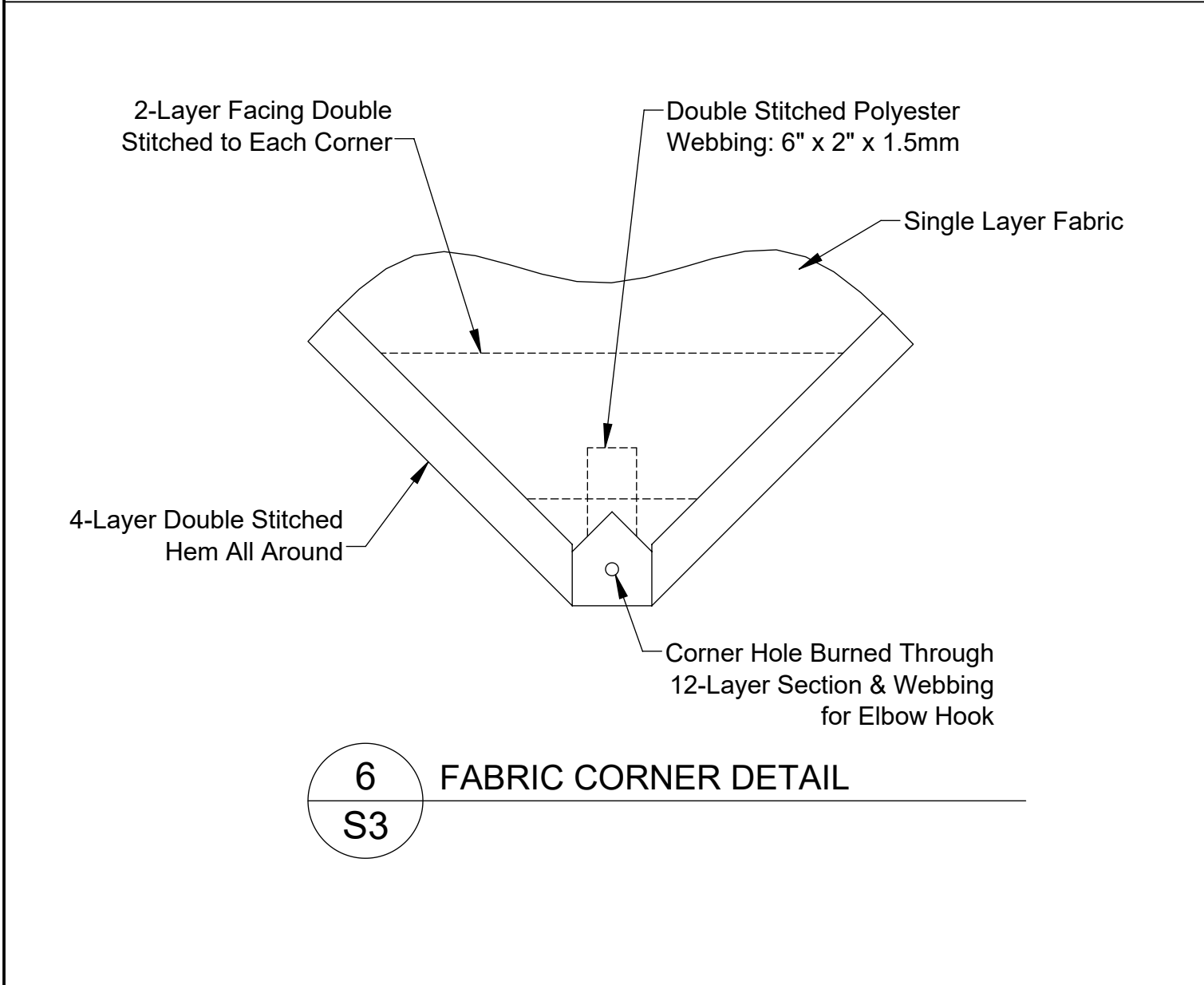
5 FLANGE DETAIL
S3



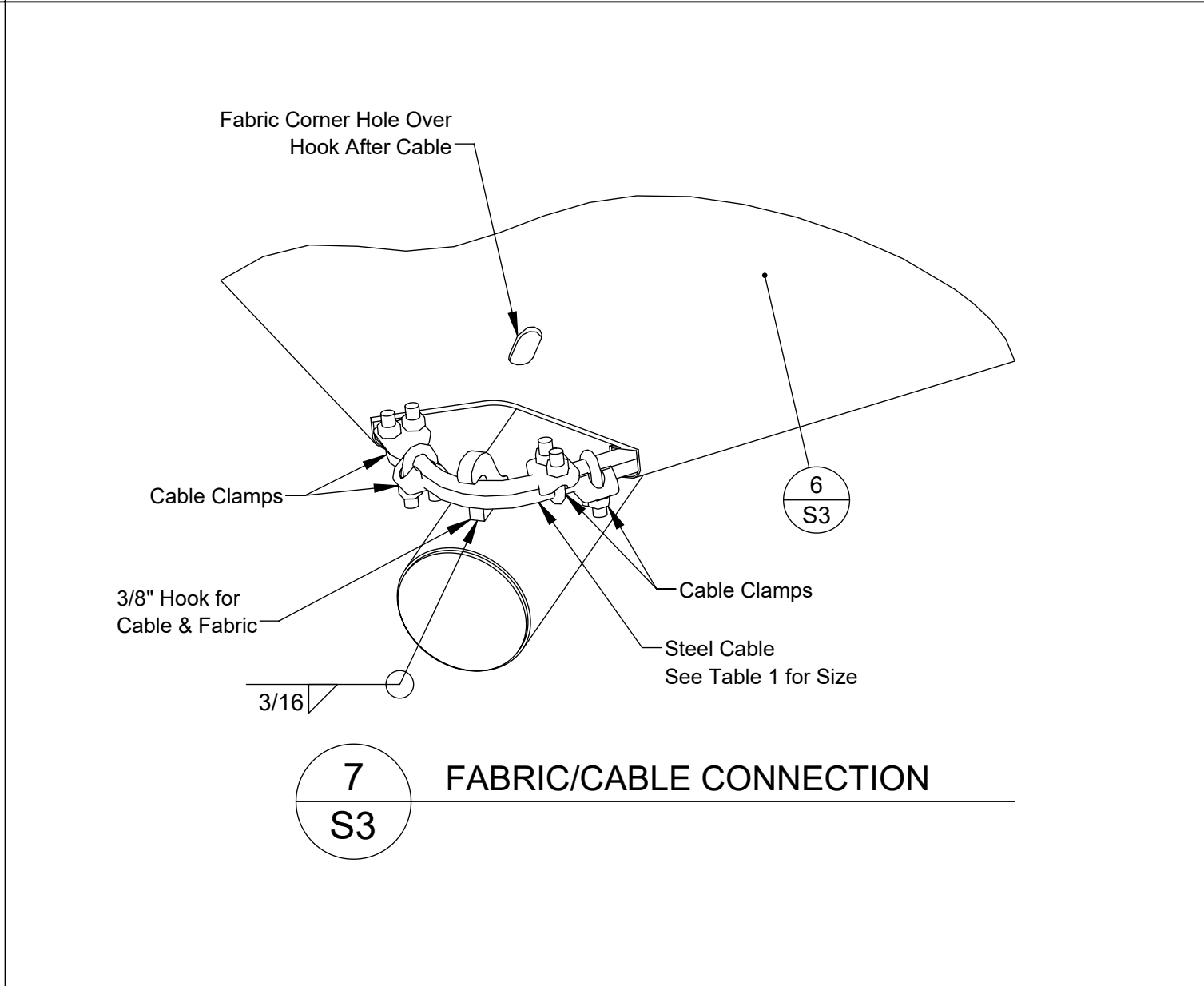
8 PIER FOOTING OPTION DETAIL
S3



9 SPREAD FOOTING OPTION DETAIL
S3



6 FABRIC CORNER DETAIL
S3



7 FABRIC/CABLE CONNECTION
S3

DSA IDENTIFICATION STAMP

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 01-122796 INC:
REVIEWED FOR
SS ☒ FLS ☒ ACS ☒
DATE: 08/21/2026

SUPERIOR
RECREATIONAL PRODUCTS

Shade

SUPERIOR SHADE
150 Adamson Industrial Blvd.
Carrollton, GA 30117

FABRIC CANOPIES DSA PC - CU
TYPICAL CANOPY DETAILS

COPYRIGHT:
THIS PLAN/DRAWING IS THE EXCLUSIVE
PROPERTY OF THE MANUFACTURER AND MAY
NOT BE USED OR REPRODUCED WHOLE OR
IN PART WITHOUT THE WRITTEN PERMISSION
FROM THE MANUFACTURER.

PC IDENTIFICATION STAMP

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

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-120866 PC
REVIEWED FOR
SS ☒ FLS ☒ ACS ☒ CBC ☐
DATE: 8/4/2023

SITE PROJECT NAME:

DISTRICT/OWNER:

LOCATION/ADDRESS:

Revisions

Date:	By:
0 1/1/2023	KJK
1 5/4/2023	KJK

Drawn: KJK

Date: 11/27/2022

Chkd: Zhisong Zhao

Date: 1/1/2023

Job Number:

SEAL:

LICENSED PROFESSIONAL ENGINEER
ZHISONG ZHAO
S 6814
6/6/2023

S3A

Sheet No.

TABLE 1 : Shade Member Sizes																					
✓	Shade Number	Length (L)	Width (W)	Height (H)	Peak Height (P)	Beam Height (BH)	Center Offset (C)	Crown Height (CH)	Steel Column	Steel Beam	Steel Crown	Steel Rafter	Steel Strut	Strut Bolt Size (See Detail 4/S3)	Flange Bolt Size (See Detail 1/S3)	Flange Width (FW)	Flange Height (FH)	Flange Thickness	Flange Hole Dia. (FD)	Flange Hole Offset (FF)	Cable Size
	DSACU101009IN	10'	10'	9'	10.95'	7.6'	5'	2.2'	HSS 5" x 5", 1/4" Wall	HSS 4" x 4", 3/16" Wall	Pipe 5" x Sch 40	HSS 2.5" x 12 Gauge	HSS 1.66" x 13 Gauge	Ø 3/4"	5/8"	10"	10 1/2"	5/8"	11/16"	1 1/4"	3/16" 7x19
	DSACU101010IN	10'	10'	10'	11.95'	8.6'	5'	2.2'	HSS 5" x 5", 1/4" Wall	HSS 4" x 4", 3/16" Wall	Pipe 5" x Sch 40	HSS 2.5" x 12 Gauge	HSS 1.66" x 13 Gauge	Ø 3/4"	5/8"	10"	10 1/2"	5/8"	11/16"	1 1/4"	3/16" 7x19
	DSACU101012IN	10'	10'	12'	13.95'	10.6'	5'	2.2'	HSS 7" x 5", 1/4" Wall	HSS 4" x 4", 3/16" Wall	Pipe 5" x Sch 40	HSS 2.5" x 12 Gauge	HSS 1.66" x 13 Gauge	Ø 3/4"	5/8"	10"	10 1/2"	5/8"	11/16"	1 1/4"	3/16" 7x19
✗	DSACU141409IN	14'	14'	9'	11.78'	7.5'	6'	3.0'	HSS 8" x 6", 1/4" Wall	HSS 5" x 5", 1/4" Wall	Pipe 5" x Sch 40	HSS 3.5" x 11 Gauge	HSS 1.9" x 11 Gauge	Ø 3/4"	3/4"	11"	11 1/2"	3/4"	13/16"	1 1/4"	1/4" 7x19
	DSACU141410IN	14'	14'	10'	12.78'	8.5'	6'	3.0'	HSS 8" x 6", 1/4" Wall	HSS 5" x 5", 1/4" Wall	Pipe 5" x Sch 40	HSS 3.5" x 11 Gauge	HSS 1.9" x 11 Gauge	Ø 3/4"	3/4"	11"	11 1/2"	3/4"	13/16"	1 1/4"	1/4" 7x19
	DSACU141412IN	14'	14'	12'	14.78'	10.5'	6'	3.0'	HSS 8" x 6", 1/4" Wall	HSS 5" x 5", 1/4" Wall	Pipe 5" x Sch 40	HSS 3.5" x 11 Gauge	HSS 1.9" x 11 Gauge	Ø 3/4"	3/4"	11"	11 1/2"	3/4"	13/16"	1 1/4"	1/4" 7x19
	DSACU202009IN	20'	20'	9'	13.04'	7.1'	8'	4.0'	HSS 8" x 8", 3/8" Wall	HSS 8" x 6", 3/8" Wall	Pipe 6" x Sch 40	HSS 5" x 7 Gauge	HSS 2.5" x 12 Gauge	Ø 1"	7/8"	13 1/2"	14 1/2"	1"	15/16"	1 3/8"	5/16" 7x19
	DSACU202010IN	20'	20'	10'	14.04'	8.1'	8'	4.0'	HSS 8" x 8", 3/8" Wall	HSS 8" x 6", 3/8" Wall	Pipe 6" x Sch 40	HSS 5" x 7 Gauge	HSS 2.5" x 12 Gauge	Ø 1"	7/8"	13 1/2"	14 1/2"	1"	15/16"	1 3/8"	5/16" 7x19
	DSACU202012IN	20'	20'	12'	16.04'	10.1'	8'	4.0'	HSS 8" x 8", 3/8" Wall	HSS 8" x 6", 3/8" Wall	Pipe 6" x Sch 40	HSS 5" x 7 Gauge	HSS 2.5" x 12 Gauge	Ø 1"	7/8"	13 1/2"	14 1/2"	1"	15/16"	1 3/8"	5/16" 7x19

TABLE 2 : Shade Foundation

✓	Shade Number	Spread Footing Depth	Spread Footing Size	Spread Footing Reinforcement	Pier Footing Depth	Pier Footing Diameter	Pier Footing Reinforcement
	DSACU101009IN	3.0'	5.5' x 5.5'	7 #5	7'	Ø3'	12 #6
	DSACU101010IN	3.0'	5.5' x 5.5'	7 #5	7'	Ø3'	12 #6
	DSACU101012IN	3.0'	6' x 6'	8 #5	7.5'	Ø3'	12 #6
✗	DSACU141409IN	3.0'	6.25' x 6.25'	8 #5	8'	Ø3'	12 #6
	DSACU141410IN	3.0'	6.25' x 6.25'	8 #5	8'	Ø3'	12 #6
	DSACU141412IN	3.0'	6.5' x 6.5'	9 #5	8'	Ø3'	12 #6
	DSACU202009IN	3.0'	7.25' x 7.25'	10 #5	9'	Ø3'	12 #6
	DSACU202010IN	3.0'	7.25' x 7.25'	10 #5	9'	Ø3'	12 #6
	DSACU202012IN	3.0'	7.75' x 7.75'	10 #5	9.5'	Ø3'	12 #6

SEAL:



DSA IDENTIFICATION STAMP

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 01-122796 INC:
REVIEWED FOR
SS ☒ FLS ☒ ACS ☒
DATE: 08/21/2026

SUPERIOR

RECREATIONAL PRODUCTS

Shade

SUPERIOR SHADE
150 Adamson Industrial Blvd.
Carrollton, GA 30117

FABRIC CANOPIES DSA PC - CU
REFERENCE TABLES

COPYRIGHT:
THIS PLAN/DRAWING IS THE EXCLUSIVE
PROPERTY OF THE MANUFACTURER AND MAY
NOT BE USED OR REPRODUCED WHOLE OR
IN PART WITHOUT THE WRITTEN PERMISSION
FROM THE MANUFACTURER.

PC IDENTIFICATION STAMP

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

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-120866 PC
REVIEWED FOR
SS ☒ FLS ☒ ACS ☒ CBC ☐
DATE: 8/4/2023

SITE PROJECT NAME:

DISTRICT/OWNER:

LOCATION/ADDRESS:

Revisions

	Date:	By:
0	1/1/2023	KJK
1	5/4/2023	KJK

Drawn: KJK
Date: 11/27/2022
Chkd: Zhisong Zhao
Date: 1/1/2023
Job Number:

S4 A

Sheet No.

FLAME RETARDANT

Fabric Registration

LICENSE NUMBER: F-037801

COMMERCIAL NINETYFIVE 340FR

Product Marketed by:

GALE PACIFIC LTD
145 WOODLANDS DRIVE
BRAESIDE, AUSTRALIA 3195,

Issue Date : 04/18/2023
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.

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

Patricia Setter
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

Commercial NinetyFive 340FR



PRODUCT SPECIFICATION

Commercial NinetyFive 340 FR, the flame retardant version of the most trusted HDPE shade fabric in the industry, is a mid-weight, flame retardant fabric that delivers the utmost in versatility. Available in 22 vibrant and on-trend colors, Commercial NinetyFive 340 FR can fulfill almost any HDPE design requirement.

• A mid-weight, 340 gsm fabric suitable for applications spanning a wide array of sizes and designs,

• Provides the optimal combination of sun protection, strength, and durability to ensure low maintenance, and long-life performance

• The most expansive color assortment in the HDPE shade fabric market. Offering 22 rich, vibrant and on-trend colors to fulfill a wide range of design requirements.

• Each color individually tested and meets the most stringent FR certification criteria

• Industry-leading stentering process provides premium lay flat characteristics to assist with accurate design and fabrication

• Backed by a full 10-year warranty against UV degradation and designed to withstand the world's harshest environments

• 100% Lead and Phthalate free

FLAMMABILITY

CSFM Title 19 1237.1
NFPA 701 Test Methods 1 & 2
ASTM E84 19B

Each color individually tested and passes all certification criteria for above. Test results available upon request.
NFPA 701 Class MF in process

FABRIC PROPERTIES

AS 2001 2.13 Mass per unit:
Nominal fabric mass 340 gsm ± 20 ; 10 oz/yd²
Approximate thickness 0.05 in. / 1.6 mm

ROLL SPECIFICATIONS

Nominal width: 9 ft. 10 in. / 3.0m (folded)
Length: 131 ft. 3 in. / 40m
Approx. roll weight: 97 lbs. / 44 kg
Approx. roll diameter: 1.05 ft. / 0.32 m
Core diameter: 1.38 in. / 35 mm

USAGE INSTRUCTIONS

Do not use against flames. Contact with organic solvents, halogens or highly acidic substances may reduce the service life of the fabric and void the warranty. Basal elastic material properties available on request.

SUGGESTED SPECIFICATION

Shade cloth fabric shall be compliant to Australian standard AS 4174:2018 and shall be GALE Pacific Commercial NinetyFive 340 FR
Knitted HDPE monofilament & tape shade fabric offering a UVE Protection from 90 to 98%

PERFORMANCE

ASTM D5034
Tensile Strength and Elongation
Maximum Force – Warp (Mean) 158.6 lbf
Elongation at Maximum Force (Mean) 89%
Maximum Force – Weft (Mean) 412.3 lbf
Elongation at Maximum Force – Warp (Mean) 49%

ASTM D2261
Tearing Strength – Tongue (Single Rip)
Mean Force – Warp 43.0 lbf
Mean Force – Weft 39.6 lbf

ASTM D6797
Bursting Strength – Ball Burst (Constant Rate of Extension)
Mean Force 408 lbf

AS 4174:2018
Shade Protection Fabric Performance

Colour	Cover Factor	Shade Factor	UV-Vis Trans %	UVR Trans %	UVR UVE %	Protection Category
Aquatic Blue	92	88.1	11.9	8.5	91.5	91 Very Effective
Black	95	94.8	5.2	5.0	95.0	94 Very Effective
Bright Green	90	87.3	12.7	9.0	91.0	90 Effective
Brown	96	94.3	5.7	4.0	96.0	96 Most Effective
Brunswick Green	93	92.9	7.1	6.4	93.6	92 Very Effective
Cayenne	93	87.3	12.7	6.7	93.3	92 Very Effective
Cedar	93	88.4	11.6	6.4	93.6	93 Very Effective
Charcoal	93	93.6	6.4	6.1	93.9	92 Very Effective
Cherry Red	90	80.0	20.0	10.0	90.0	90 Effective
Deep Ochre	91	90.5	9.5	8.3	91.7	90 Effective
Desert Sand	93	86.1	13.9	6.6	93.4	92 Very Effective
Gun Metal	96	94.5	5.5	3.5	96.5	96 Most Effective
Natural	94	78.3	21.7	6.5	93.5	92 Very Effective
Navy Blue	94	93.1	6.9	6.2	93.8	93 Very Effective
Orange	92	80.8	19.2	7.6	92.4	91 Very Effective
Rivergum Green	94	89.7	10.3	6.0	94.0	93 Very Effective
Royal Purple	91	87.9	12.1	8.6	91.4	90 Effective
Sky Blue	94	91.3	8.7	6.0	94.0	93 Very Effective
Steel Grey	92	89.7	10.3	7.6	92.4	91 Very Effective
Turquoise	94	89.5	10.5	6.6	93.4	93 Very Effective
White	95	76.5	23.5	6.4	94.6	94 Very Effective
Yellow	93	77.5	22.5	6.8	93.2	92 Very Effective

USA P 1800 550 4687 F +61 407 772 0552
AU P 1800 331 521 F +61 3 9516 3308
NZ P 0800 355 171 F 0800 355 172
UAE P +971 4 891 7114 F +971 4 891 7167

www.galecommercial.com

GALE PACIFIC

Industrious PARTS
LANDSCAPE INSTALLATIONS

AMERICAN SOCIETY OF
LANDSCAPE ARCHITECTS

COMMERCIAL PARTS
LANDSCAPE INSTALLATIONS

Rev. 1, US 300

7 x 19

6 X 36

Stainless Steel Wire Rope Clips

7X19 Stainless Steel Cable

Diameter (Inches)	Weight per 100ft (Lbs)	Nominal B.S. (Lbs)	
		AISI 302, 304	AISI 316
3/16	6.50	3,700	3,210
7/32	8.60	5,000	4,350
1/4	11.00	6,400	5,600
5/16	17.30	9,000	8,200
3/8	24.30	12,000	11,000

6X19/37 Class Stainless Steel Wire Rope

Diameter (Inches)	Weight per 100ft (Lbs)	Nominal B.S. (Lbs)	
		AISI 302, 304	AISI 316
7/16	35.0	16,300	14,800

Stainless Steel Wire Rope Clips

Precision Cast Type 316

Size (Inch)	Size (mm)	Min Clips Required	Weight (Lbs)
3/16	5	3	0.08
1/4	6	3	0.09
5/16	8	3	0.19
3/8	10	3	0.38
1/2	12	4	0.53
5/8	16	4	0.90
3/4	20	5	1.06

Stainless Steel Jaw & Jaw Turnbuckle

T316, Forged

Size X Take Up (Inch)	Working Load Limit (Lbs)	Weight per Each (Lbs)
1/4 x 4	500	0.528
5/16 x 4-1/2	800	0.726
3/8 x 6	1,200	0.880
1/2 x 12	2,200	2.394
5/8 x 12	3,500	4.664
3/4 x 12	5,200	7.042
1 x 12	8,000	11.24

SEAL:

DSA IDENTIFICATION STAMP

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 01-122796 INC:
REVIEWED FOR
SS ☒ FLS ☒ ACS ☒
DATE: 08/21/2026

SUPERIOR
RECREATIONAL PRODUCTS
Shade

SUPERIOR SHADE
150 Adamson Industrial Blvd.
Carrollton, GA 30117

FABRIC CANOPIES DSA PC - CU
SPECIFICATION INFORMATION

COPYRIGHT:
THIS PLAN/DRAWING IS THE EXCLUSIVE
PROPERTY OF THE MANUFACTURER AND MAY
NOT BE USED OR REPRODUCED WHOLE OR
IN PART WITHOUT THE WRITTEN PERMISSION
FROM THE MANUFACTURER.

PC IDENTIFICATION STAMP

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

IDENTIFICATION STAMP

DIV. OF THE STATE ARCHITECT
APP: 02-120866 PC
REVIEWED FOR
SS ☒ FLS ☒ ACS ☒ CBC ☐
DATE: 8/4/2023

SITE PROJECT NAME:

DISTRICT/OWNER:

LOCATION/ADDRESS:

Revisions

	Date:	By:
0	1/1/2023	KJK
1	5/4/2023	KJK

Drawn: KJK
Date: 11/27/2022
Chkd: Zhisong Zhao
Date: 1/1/2023
Job Number:

S5A
Sheet No.

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

Application Number:School Name:School District:

DSA File Number:Increment Number:Date Created:

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 facets of construction, including but not limited to, special inspections not listed on this form, such as structural wood framing, high-load wood diaphragms, 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

Periodic – Indicates that a periodic special inspection is required

Test – Indicates that a test is required

GE (Geotechnical Engineer) – Indicates that the special inspection shall be performed by a registered geotechnical engineer or his or her authorized representative.

LOR (Laboratory of Record) – Indicates that the test or special inspection shall be performed by a testing laboratory approved in the DSA Laboratory Evaluation and Acceptance (LEA) Program. See CAC Section 1705A.3.3.5.

PI (Project Inspector) – Indicates that the special inspection may be performed by a project inspector when specifically approved by DSA.

SI (Special Inspection) – Indicates that the special inspection shall be performed by an appropriately qualified/approved special inspector.

DIVISION OF THE STATE ARCHITECT
DGS DSA 103-22 (Revised 12/01/2022)

DEPARTMENT OF GENERAL SERVICES
Page 1 of 9

STATE OF CALIFORNIA

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

Table 1705A.6, Table 1705A.7, Table 1705A.8

Application Number:School Name:School District:

DSA File Number:Increment Number:Date Created:

Geotechnical Reports: Project has a geotechnical report, or CD's indicate soils special inspection is required by GE

S1. GENERAL:

Test or Special Inspection	Type	Performed By	Code References and Notes
☒ a. Verify that: • Site has been prepared properly prior to placement of controlled fill and/or excavations for foundations. • Foundation excavations are extended to proper depth and have reached proper material. • Materials below footings are adequate to achieve the design bearing capacity.	Periodic	GE*	* By geotechnical engineer or his or her qualified representative. (See Appendix (end of this form) for exemptions.)

S2. SOIL COMPACTION AND FILL:

Test or Special Inspection	Type	Performed By	Code References and Notes
☐ a. Perform classification and testing of fill materials.	Test	LOR*	* Under the supervision of the geotechnical engineer.
☒ b. Verify use of proper materials, densities and inspect lift thickness, placement and compaction during placement of fill.	Continuous	GE*	* By geotechnical engineer or his or her qualified representative. (Refer to specific items identified in the Appendix (end of this form) for exemptions where soils SI and testing may be conducted under the supervision of a geotechnical engineer or LOR's engineering manager. In such cases, the LOR's form DSA 291 shall satisfy the soil SI and test reporting requirements for the exempt items.)
☒ c. Compaction testing.	Test	LOR*	* Under the supervision of the geotechnical engineer. (Refer to specific items identified in the Appendix (end of this form) for exemptions where soils testing may be conducted under the supervision of a geotechnical engineer or LOR's engineering manager. In such cases, the LOR's form DSA 291 shall satisfy the soil test reporting requirements for the exempt items.)

DIVISION OF THE STATE ARCHITECT
DGS DSA 103-22 (Revised 12/01/2022)

DEPARTMENT OF GENERAL SERVICES
Page 2 of 9

STATE OF CALIFORNIA

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

Table 1705A.6, Table 1705A.7, Table 1705A.8

Application Number:School Name:School District:

DSA File Number:Increment Number:Date Created:

S3. DRIVEN DEEP FOUNDATIONS (PILES):

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

Test or Special Inspection	Type	Performed By	Code References and Note
☒ a. Inspect drilling operations and maintain complete and accurate records for each pier.	Continuous	GE*	* By geotechnical engineer or his or her qualified representative. (See Appendix (end of this form) for exemptions.)
☒ b. Verify pier locations, diameters, plumbness, bell diameters (if applicable), lengths and embedment into bedrock (if applicable), record concrete or grout volumes.	Continuous	GE*	* By geotechnical engineer or his or her qualified representative. (See Appendix (end of this form) for exemptions.)
☒ c. Confirm adequate end strata bearing capacity.	Continuous	GE*	* By geotechnical engineer or his or her qualified representative. (See Appendix (end of this form) for exemptions.)
☒ d. Concrete piers.	Provide tests and inspections per CONCRETE section below.		

S5. RETAINING WALLS:

S6. OTHER SOILS:

DIVISION OF THE STATE ARCHITECT
DGS DSA 103-22 (Revised 12/01/2022)

DEPARTMENT OF GENERAL SERVICES
Page 3 of 9

STATE OF CALIFORNIA

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

Table 1705A.3, ACI 318-19 Sections 26.12 & 26.13

Application Number:School Name:School District:

DSA File Number:Increment Number:Date Created:

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 5, 1910A.1.
☒ b. Identify, sample, and test reinforcing steel.	Test	LOR	1910A.2; ACI 318-19 Ch.20 and Section 26.6.1.2; DSA IR 17-10. (See Appendix (end of this form) for exemptions.)
☒ c. During concrete placement, fabricate specimens for strength tests, perform slump and air content tests, and determine the temperature of the concrete.	Test	LOR	Table 1705A.3 Item 6; ACI 318-19 Sections 26.5 & 26.12.
☒ d. Test concrete (f_c).	Test	LOR	1905A.1.17; ACI 318-19 Section 26.12.
☐ e. Batch plant inspection.	See Notes	SI	Default of "Continuous" per 1705A.3.3. If approved by DSA, batch plant inspection may be reduced to "Periodic" subject to requirements in Section 1705A.3.3.1, or eliminated per 1705A.3.3.2. See IR 17-13. (See Appendix (end of this form) for exemptions.)
☐ f. Welding of reinforcing steel.	Provide special inspection per STEEL, Category S/A4(d) & (e) and/or S/A5(g) & (h) below.		

C2. PRESTRESSED / POST-TENSIONED CONCRETE (IN ADDITION TO SECTION C1):

C3. PRECAST CONCRETE (IN ADDITION TO SECTION C1):

C4. SHOTCRETE (IN ADDITION TO SECTION C1):

C5. POST-INSTALLED ANCHORS:

C6. OTHER CONCRETE:

DIVISION OF THE STATE ARCHITECT
DGS DSA 103-22 (Revised 12/01/2022)

DEPARTMENT OF GENERAL SERVICES
Page 4 of 9

STATE OF CALIFORNIA

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

1705A.2.1, Table 1705A.2.1; AISC 360-16, AISC 341-16, AISC 358-16, AISC 360-16; AISI S100-20; RCSC 2014; AWS D1.1, AWS D1.2, AWS D1.3, AWS D1.4, AWS D1.8

Application Number:School Name:School District:

DSA File Number:Increment Number:Date Created:

S/A1. STRUCTURAL STEEL, COLD-FORMED STEEL AND ALUMINUM USED FOR STRUCTURAL PURPOSES

Test or Special Inspection	Type	Performed By	Code References and Notes
☒ a. Verify identification of all materials and mill certificates indicate material properties that comply with requirements. • Material sizes, types and grades comply with requirements.	Periodic	*	Table 1705A.2.1 Item 3a, 3c; 2202A.1; AISI S100-20 Section A3.1 & A3.2; AISI S240-20 Section A3 & A5; AISI S220-20 Sections A4 & A6; * By special inspector or qualified technician when performed off-site.
☒ b. Test unidentified materials.	Test	LOR	2202A.1.
☒ c. Examine seam welds of HSS shapes.	Periodic	SI	DSA IR 17-3.
☒ d. Verify and document steel fabrication per DSA-approved construction documents.	Periodic	SI	Not applicable to cold-formed steel light-frame construction, except for trusses (1705A.2.4).
☐ e. Buckling restrained braces.	Test	LOR	Testing and special inspections in accordance with IR 22-4.

S/A2. HIGH-STRENGTH BOLTS:

S/A3. WELDING:

Test or Special Inspection	Type	Performed By	Code References and Notes
☒ a. Verify weld filler material identification markings per AWS designation listed on the DSA-approved documents and the WPS.	Periodic	SI	1705A.2.5, Table 1705A.2.1 Items 4 & 5; AWS D1.1 and AWS D1.8 for structural steel; AWS D1.2 for Aluminum; AWS D1.3 for cold-formed steel; AWS D1.4 for reinforcing steel; DSA IR 17-3.
☒ b. Verify weld filler material manufacturer's certificate of compliance.	Periodic	SI	DSA IR 17-3.
☒ c. Verify WPS, welder qualifications and equipment.	Periodic	SI	DSA IR 17-3.

DIVISION OF THE STATE ARCHITECT
DGS DSA 103-22 (Revised 12/01/2022)

DEPARTMENT OF GENERAL SERVICES
Page 5 of 9

STATE OF CALIFORNIA

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

1705A.2.1, Table 1705A.2.1; AISC 360-16, AISC 341-16, AISC 358-16, AISC 360-16; AISI S100-20; RCSC 2014; AWS D1.1, AWS D1.2, AWS D1.3, AWS D1.4, AWS D1.8

Application Number:School Name:School District:

DSA File Number:Increment Number:Date Created:

S/A4. SHOP WELDING (IN ADDITION TO SECTION S/A3):

Test or Special Inspection	Type	Performed By	Code References and Notes
☐ a. Inspect groove welds, multi-pass fillet welds, single pass fillet welds > 5/16", plug and slot welds.	Continuous	SI	Table 1705A.2.1 Items 5a.1, 4; AISC 360-16 (and AISC 341-16 as applicable); DSA IR 17-3.
☒ b. Inspect single-pass fillet welds < 5/16", floor and roof deck welds.	Periodic	SI	1705A.2.2, Table 1705A.2.1 Items 5a.5 & 5a.6; AISC 360-16 (and AISC 341-16 as applicable); DSA IR 17-3.
☐ c. Inspect welding of stairs and railing systems.	Periodic	SI	1705A.2.1, AISC 360-16 (and AISC 341-16 as applicable); AWS D1.1 & D1.3; DSA IR 17-3.
☐ d. Verification of reinforcing steel weldability other than ASTM A706.	Periodic	SI	1705A.3.1; AWS D1.4; DSA IR 17-4. Verify carbon equivalent reported on mill certificates.
☐ e. Inspect welding of reinforcing steel.	Continuous	SI	Table 1705A.2.1 Item 5b, 1705A.3.1, Table 1705A.3 Item 2, 1903A-8; AWS D1.4; DSA IR 17-3.

S/A5. FIELD WELDING (IN ADDITION TO SECTION S/A3):

S/A6. NONDESTRUCTIVE TESTING:

S/A7. STEEL JOISTS AND TRUSSES:

S/A8. SPRAYED FIRE-RESISTANT MATERIALS:

S/A9. ANCHOR BOLTS AND ANCHOR RODS:

S/A10. STORAGE RACK SYSTEMS:

S/A11. Other Steel

DIVISION OF THE STATE ARCHITECT
DGS DSA 103-22 (Revised 12/01/2022)

DEPARTMENT OF GENERAL SERVICES
Page 6 of 9

STATE OF CALIFORNIA

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

Application Number:School Name:School District:

DSA File Number:Increment Number:Date Created:

Exempt items given in DSA IR A-22 or the 2019 CBC (including DSA amendments) and those items identified below with a check mark by the design professional are NOT subject to DSA requirements for the structural tests / special inspections noted. **Items marked as exempt shall be identified on the approved construction documents.** The project inspector shall verify all construction complies with the approved construction documents.

SOILS:

CONCRETE/MASONRY:

WELDING:

DIVISION OF THE STATE ARCHITECT
DGS DSA 103-22 (Revised 12/01/2022)

DEPARTMENT OF GENERAL SERVICES
Page 7 of 9

STATE OF CALIFORNIA

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

Application Number:School Name:School District:

DSA File Number:Increment Number:Date Created:

Name of Architect or Engineer in general responsible charge:

Name of Structural Engineer (When structural design has been delegated):

Signature of Architect or Structural Engineer:Date:

Note: To facilitate DSA electronic mark-ups and identification stamp application, DSA recommends against using secured electronic or digital signatures.

DSA STAMP

DIVISION OF THE STATE ARCHITECT
DGS DSA 103-22 (Revised 12/01/2022)

DEPARTMENT OF GENERAL SERVICES
Page 8 of 9

STATE OF CALIFORNIA

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

Application Number:School Name:School District:

DSA File Number:Increment Number:Date Created:

1. Soils Testing and Inspection: Geotechnical Verified Report Form DSA 293

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

3. Concrete Batch Plant Inspection: Laboratory Verified Report Form DSA 291

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

DIVISION OF THE STATE ARCHITECT
DGS DSA 103-22 (Revised 12/01/2022)

DEPARTMENT OF GENERAL SERVICES
Page 9 of 9

STATE OF CALIFORNIA

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

SEAL:

LICENSED PROFESSIONAL ENGINEER
ZHISONG ZHAO
S 6814
6/6/2023

DSA IDENTIFICATION STAMP

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT

APP: 01-122796 INC:
REVIEWED FOR

SS ☒ FLS ☒ ACS ☒
DATE: 08/21/2026

SUPERIOR
RECREATIONAL PRODUCTS

Shade

SUPERIOR SHADE
150 Adamson Industrial Blvd.
Carrollton, GA 30117

FABRIC CANOPIES DSA PC - CU
EXAMPLE FORM DSA 103 -
TESTS & INSPECTIONS

COPYRIGHT:
THIS PLAN/DRAWING IS THE EXCLUSIVE
PROPERTY OF THE MANUFACTURER AND MAY
NOT BE USED OR REPRODUCED WHOLE OR
IN PART WITHOUT THE WRITTEN PERMISSION
FROM THE MANUFACTURER.

PC IDENTIFICATION STAMP

PRE-CHECK (PC) DOCUMENT
CODE: 2022 CBC

A separate project application
for construction is required

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT

APP: 02-120866 PC
REVIEWED FOR

SS ☒ FLS ☒ ACS ☒ CBC ☐
DATE: 8/4/2023

SITE PROJECT NAME:

DISTRICT/OWNER:

LOCATION/ADDRESS:

Revisions

	Date:	By:
0	1/1/2023	KJK
1	5/4/2023	KJK

Drawn: KJK

Date: 11/27/2022

Chkd: Zhisong Zhao

Date: 1/1/2023

Job Number:

S6A

Sheet No.