

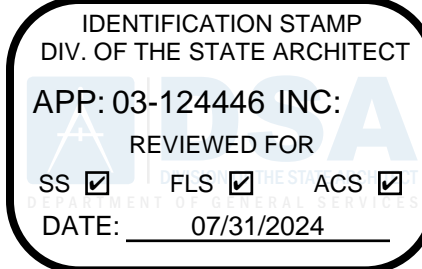
# INSTALLATION OF (6) SIX SHADE STRUCTURES @ CAREER TECHNICAL EDUCATION CENTER

7301 Old River Rd, Bakersfield, CA 93311

FOR:

## KERN HIGH SCHOOL DISTRICT

5801 SUNDALE AVE, BAKERSFIELD, CA 93309



DANNY E. ORDIZ, AIA  
ARCHITECT C-14728  
MANUEL MALDONADO JR., AIA  
ARCHITECT C-36294  
ROBERT TROST, AIA  
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FOR:  
KERN HIGH SCHOOL DISTRICT  
5801 SUNDALE AVE, BAKERSFIELD, CA 93309



MARK	DATE	DESCRIPTION

JOB NUMBER:  
**2337**  
AR: 03-124446  
PTN: 63529-486  
CAD DRAWING FILE:  
2337 CTC SHADE STRUCTURES ARCH25.pln  
DRAWN BY:  
ASI  
CHECKED BY:  
HS  
CHECK AND VERIFY ALL DIMENSIONS BEFORE PROCEEDING  
WITH THE WORK. REPORT DISCREPANCIES TO THE ARCHITECT.  
THE DRAWINGS, IDEAS, AND DESIGNS REPRESENTED ON THIS  
SHEET ARE THE PROPERTY OF THE ARCHITECT.  
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ORDIZ MELBY ARCHITECTS  
A PROFESSIONAL CORPORATION

SHEET TITLE

### GENERAL INFORMATION

SHEET IDENTIFICATION NUMBER

G-001

SHEETS IN SET 11

SHEETS IN SET 11

### GENERAL NOTES

- THE DRAWINGS, IDEAS AND DESIGNS REPRESENTED HEREIN ARE THE PROPERTY OF THE ARCHITECT.
- THE DRAWINGS AND SPECIFICATIONS ARE INTENDED TO CONVEY AN OVERALL DESCRIPTION OF THE PROJECT IN SUFFICIENT DETAIL FOR ITS COMPLETE CONSTRUCTION. SOME CONDITIONS, WHICH ARE COMMONLY ENCOUNTERED IN CONSTRUCTION OF THIS TYPE AND/OR CONDITIONS WHICH RELATE TO SPECIFIC PRODUCTS OR PROCESSES, MAY NOT BE SPECIFICALLY DETAILED IN THESE PLANS. ALL CONDITIONS NOT SPECIFICALLY DETAILED SHALL BE CONSTRUCTED COMPLETELY PER THE CURRENT STANDARDS OF THE APPROPRIATE INDUSTRY AND ANY APPLICABLE MANUFACTURER'S RECOMMENDATIONS.
- NOTHING IN THE PLANS AND SPECIFICATIONS IS TO BE CONSTRUED TO PERMIT CONSTRUCTION IN CONFLICT WITH THE REQUIREMENTS OF ANY CODE, LAW OR ORDINANCE OR REGULATION.
- "TYPICAL" MEANS IDENTICAL FOR ALL SAME CONDITIONS UNLESS OTHERWISE NOTED. "SIMILAR" MEANS COMPARABLE CHARACTERISTICS FOR THE CONDITIONS NOTED. VERIFY DIMENSIONS AND ORIENTATION ON PLAN WITH THE ARCHITECT.
- OTHERWISE NOTED. ALL PARTITIONS ARE DIMENSIONED TO CENTERLINE UNLESS OTHERWISE NOTED (+).
- DIMENSIONS ARE NOT ADJUSTABLE WITHOUT APPROVAL OF THE ARCHITECT, UNLESS OTHERWISE NOTED (+).
- DO NOT SCALE DRAWINGS. THE CONTRACTOR IS RESPONSIBLE TO FIELD VERIFY ALL DIMENSIONS.
- ALL HEIGHTS ARE DIMENSIONED FROM TOP OF EXISTING SLAB UNLESS NOTED OTHERWISE "AFF", ABOVE FINISH FLOOR.
- ALL WORK SHALL BE SCHEDULED AND PERFORMED SO AS NOT TO DISTURB OR CAUSE DAMAGE TO ADJACENT PROPERTIES.
- ALL REVISIONS TO THE APPROVED PLANS, MUST BE APPROVED BY THE DIVISION OF STATE ARCHITECT.
- THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR CHECKING CONTRACT DOCUMENTS, FIELD CONDITIONS AND DIMENSIONS FOR ACCURACY AND CONFIRMING THAT WORK IS BUILDABLE AS SHOWN BEFORE PROCEEDING WITH CONSTRUCTION. IF THERE ARE ANY QUESTIONS REGARDING THESE OR OTHER COORDINATION QUESTIONS, THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING A CLARIFICATION FROM THE ARCHITECT BEFORE PROCEEDING WITH WORK OR RELATED WORK IN QUESTION.
- THE GENERAL CONTRACTOR AND SUBCONTRACTORS SHALL COORDINATE THE LAYOUT AND EXACT LOCATION OF ALL PARTITIONS, DOORS, PLUMBING, MECHANICAL, ELECTRICAL AND FIRE PROTECTION EQUIPMENT IN THE FIELD BEFORE PROCEEDING WITH CONSTRUCTION.
- THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR SECURITY OF THE PROJECT AND SHALL BE RESPONSIBLE FOR DISCIPLINE OF ALL WORKERS ON THE PROJECT.
- ALL DECORATIVE MATERIALS AND TRIM SHALL COMPLY WITH CALIFORNIA BUILDING CODE, SECTION 806.1
- ALL WORK SHALL CONFORM TO 2022 EDITION TITLE 24, CALIFORNIA CODE OF REGULATIONS (CCR)
- CHANGE TO THE APPROVED DRAWINGS AND SPECIFICATIONS SHALL BE MADE BY ADDENDA OR CONSTRUCTION CHANGE DOCUMENT (CCD) APPROVED BY DSA, AS REQUIRED BY SECTION 4-336, PART 1, TITLE 24, CCR.
- A "DSA CERTIFIED" PROJECT INSPECTOR (MIN CLASS 2) 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.
- A DSA ACCEPTED TESTING LABORATORY DIRECTLY EMPLOYED BY THE DISTRICT (OWNER) SHALL CONDUCT ALL THE REQUIRED TESTS AND INSPECTIONS FOR THE PROJECT.
- THE INTENT OF THESE DRAWINGS AND SPECIFICATION IS THAT THE WORK OF THE ALTERATION, REHABILITATION OR RECONSTRUCTION IS TO BE IN ACCORDANCE WITH TITLE 24, CCR. SHOULD ANY EXISTING CONDITION 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)
- GRADING PLANS, DRAINAGE IMPROVEMENTS, ROAD AND ACCESS REQUIREMENTS AND ENVIRONMENTAL HEALTH CONSIDERATIONS SHALL COMPLY WITH ALL LOCAL ORDINANCES
- ALL MATERIALS AND WORK SHOWN SHALL BE CONSIDERED A PART OF THE SCOPE OF WORK FOR THIS PROJECT UNLESS INDICATED AS EXISTING (E).
- WHENEVER DSA FINDS ANY CONSTRUCTION WORK IS BEING PERFORMED IN A MANNER CONTRARY TO THE PROVISIONS OF CALIFORNIA BUILDING CODE AND THAT WOULD COMPROMISE THE STRUCTURAL INTEGRITY OF THE BUILDING, THE DEPARTMENT OF GENERAL SERVICES, STATE OF CALIFORNIA, IS AUTHORIZED TO ISSUE A STOP WORK ORDER PER SECTION 4-334.1 CALIFORNIA ADMINISTRATIVE CODE (PART 1, TITLE 24, CCR).
- TITLE 24, PARTS 1-5 AND 9 MUST BE KEPT ON SITE DURING CONSTRUCTION.
- ALL STRUCTURAL, ARCHITECTURAL, MECHANICAL, ELECTRICAL, AND PLUMBING MATERIALS INSTALLATION TO COMPLY WITH APPLICABLE CODES, STANDARDS, AND MANUFACTURER'S RECOMMENDATIONS.
- THE PROJECT INSPECTION (PI) SHALL WITNESS AND VERIFY GROUNDING.
- JOINTS AND OTHER OPENINGS IN THE BUILDING ENVELOPE THAT ARE POTENTIAL SOURCES OF AIR LEAKAGE SHALL BE CAULKED, GASKETED, WEATHER STRIPPED OR OTHERWISE SEALED TO LIMIT INFILTRATION AND EXFILTRATION PER CEC 110.7
- FABRIC SHALL REQUIRE ANNUAL INSPECTION AND MAINTENANCE BY THE DISTRICT.

### CODE REQUIREMENTS

ALL DRAWINGS AND CONSTRUCTION SHALL CONFORM TO THE FOLLOWING CODES:  
TITLE 19 CCR, PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS

- |      |   |
|------|---|
| 2022 | TITLE 24 CCR, PART 1 - 2022 BUILDING STANDARDS ADMINISTRATIVE CODE  |
| 2022 | TITLE 24 CCR, PART 2 - 2022 CALIFORNIA BUILDING CODE, VOL. 1 & 2 (CBC) (2021 IBC, AS AMENDED BY CA)                                 |
| 2022 | TITLE 24 CCR, PART 3 - 2022 CALIFORNIA ELECTRICAL CODE (CEC) (2021 NEC (NFPA), AS AMENDED BY CA)                                    |
| 2022 | TITLE 24 CCR, PART 4 - 2022 CALIFORNIA MECHANICAL CODE (CMC) (2021 IAPMO UMC, AS AMENDED BY CA)                                     |
| 2022 | TITLE 24 CCR, PART 5 - 2022 CALIFORNIA PLUMBING CODE (CPC) (2021 IAPMO UPC, AS AMENDED BY CA)                                       |
| 2022 | TITLE 24 CCR, PART 6 - 2022 CALIFORNIA ENERGY CODE  |
| 2022 | TITLE 24 CCR, PART 9 - 2022 CALIFORNIA FIRE CODE (CFC) (2021 IFC, AS AMENDED BY CA)   |
| 2022 | TITLE 24 CCR, PART 10 - 2022 CALIFORNIA EXISTING BUILDING CODE (IEBC) (2021 INTERNATIONAL EXISTING BUILDING CODE, AS AMENDED BY CA) |
| 2022 | TITLE 24 CCR, PART 11 - 2022 GREEN BUILDING STANDARDS CODE (CALGREEN CODE)  |
| 2022 | TITLE 24 CCR, PART 12 - 2022 CALIFORNIA REFERENCED STANDARDS  |
| 2022 | ADA STANDARDS FOR ACCESSIBLE DESIGN   |

#### PARTIAL LIST OF APPLICABLE STANDARDS

- |      |   |
|------|---|
| 2022 | NFPA 13, INSTALLATION OF SPRINKLER SYSTEMS (CA AMENDED) |
| 2019 | NFPA 14, STANDPIPE & HOSE (CA AMENDED)                  |
| 2019 | NFPA 20, PUMPS FOR FIRE PROTECTION (CA AMENDED)         |
| 2019 | NFPA 24, FIRE SERVICE MAINS (CA AMENDED)                |
| 2022 | NFPA 72, FIRE ALARM CODE (CA AMENDED)                   |

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

NOTHING IN THESE PLANS IS TO BE CONSTRUED TO PERMIT CONSTRUCTION IN CONFLICT WITH THE REQUIREMENTS OF ANY CODE, LAW, ORDINANCE, OR REGULATION. THE FOLLOWING AGENCIES SHALL HAVE JURISDICTION OVER THE PROGRESS OF THE WORK:

CAL/OSHA REGULATORY SERVICES	DIVISION OF THE STATE ARCHITECT
STRUCTURAL SAFETY SECTION	COUNTY OF KERN
FIRE & LIFE SAFETY SECTION	FIRE DEPARTMENT
ACCESS COMPLIANCE SECTION	PUBLIC WORKS DEPARTMENT

### PROJECT DIRECTORY

#### ARCHITECT

Ordiz Melby Architects, Inc.  
5500 Ming Avenue, Suite 280  
Bakersfield, CA 93309  
Phone: (661)832-5258  
Fax: (661)832-4291  
MANUEL MALDONADO JR.

#### OWNER

KERN HIGH SCHOOL DISTRICT  
5801 SUNDALE AVE, BAKERSFIELD, CA 93309  
Phone: (661)827-3100

#### SHADE STRUCTURE

USASHADE AND FABRIC STRUCTURES, INC.  
1085 N MAIN ST #C, ORANGE, CA 92667  
Phone: (714)427-6981

### FIRE PROTECTION

- 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.
- PROVIDE ONE 4A 10 B C RATED EXTINGUISHER FOR EACH 6,000 SQUARE FEET OR PORTION THEREOF ON EACH FLOOR - TRAVEL DISTANCE SHALL NOT EXCEED 75 FEET.

### EXIT REQUIREMENTS

- ALL EXITS SHALL BE OPENABLE DURING BUSINESS HOURS FROM INSIDE WITHOUT THE USE OF A KEY OR ANY SPECIAL KNOWLEDGE. NO DEAD OR SLIDING BOLTS. NO LATCH OR LATCHING DEVICE EXCEPT PANIC HARDWARE PERMITTED.
- EXIT SIGNS MUST BE INTERNALLY ILLUMINATED.
- PROVIDE TWO SEPARATE CIRCUITS FOR EXIT SIGNS.
- PROVIDE TWO SEPARATE SOURCES OF POWER FOR EXIT SIGNS.

### SCOPE OF WORK

#### BUILDINGS

INSTALLATION OF (6) 22'X20'X15' PERMANENT SHADE STRUCTURE PC#04-121917 AND FLAT WORK.

### ACCESSIBILITY STANDARDS

#### DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE STATEMENT:

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

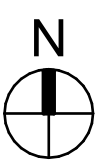
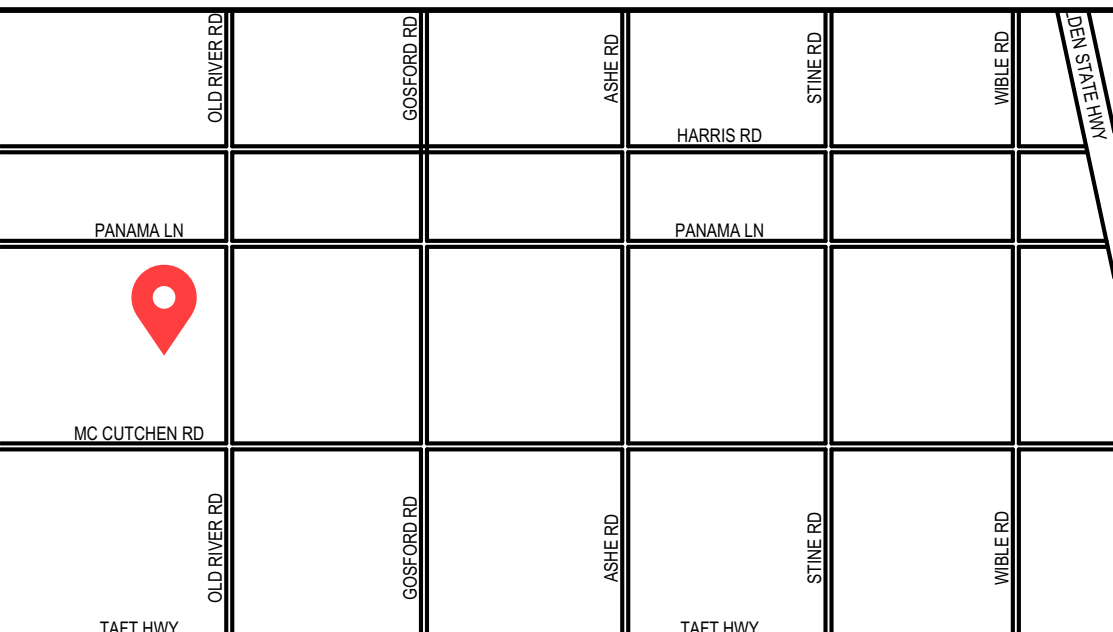
DURING CONSTRUCTION, IF POT ITEMS WITHIN THE SCOPE OF THE PROJECT REPRESENTED AS CODE COMPLIANT ARE FOUND TO BE NONCONFORMING BEYOND REASONABLE CONSTRUCTION TOLERANCES, THEY SHALL BE BROUGHT INTO COMPLIANCE WITH THE CBC AS A PART OF THIS PROJECT BY MEANS OF A CONSTRUCTION CHANGE DOCUMENT

- HAND ACTIVATED DOOR OPENING HARDWARE SHALL BE CENTERED BETWEEN 34 INCHES AND 44 INCHES ABOVE FLOOR. LATCHING AND LOCKING DOORS THAT ARE HAND ACTIVATED AND WHICH ARE IN A PATH OF TRAVEL SHALL BE OPERABLE WITH A SINGLE EFFORT BY LEVER TYPE HARDWARE, BY PANIC BARS, PUSH-PULL ACTIVATION BARS, OR OTHER HARDWARE DESIGNED TO PROVIDE PASSAGE WITHOUT REQUIRING THE ABILITY TO GRASP AND TURN OPENING HARDWARE. LOCKED EXIT DOORS SHALL OPERATE AS ABOVE IN EGRESS DIRECTION.
- MAXIMUM EFFORT TO OPERATE SHALL NOT EXCEED 5 POUNDS FOR EXTERIOR DOORS AND 5 POUNDS FOR INTERIOR DOORS. SUCH PULL OR PUSH EFFORT BEING APPLIED AT RIGHT ANGLES TO HINGED DOORS AND AT THE CENTER PLANE OF SLIDING OR FOLDING DOORS. COMPENSATING DEVICES OR AUTOMATIC DOOR OPERATORS MAY BE UTILIZED TO MEET THE ABOVE STANDARDS WHEN FIRE DOORS ARE REQUIRED. THE MAXIMUM EFFORT TO OPERATE THE DOOR MAY BE INCREASED NOT TO EXCEED 15 POUNDS.
- CONSTRUCTION: THE BOTTOM 10" OF ALL DOORS EXCEPT AUTOMATIC AND SLIDING SHALL HAVE A SMOOTH UNINTERRUPTED SURFACE TO ALLOW THE DOOR TO BE OPENED BY A WHEELCHAIR FOOTREST WITHOUT CREATING A TRAP OR HAZARDOUS CONDITION. WHERE NARROW FRAMES ARE USED, A 10" HIGH SMOOTH PANEL SHALL BE INSTALLED ON THE PUSH SIDE OF THE DOOR, WHICH WILL ALLOW THE DOOR TO BE OPENED BY A WHEELCHAIR FOOTREST WITHOUT CREATING A TRAP OR HAZARDOUS CONDITION.
- FOR HINGED DOORS, THE OPENING WIDTH SHALL BE MEASURED WITH THE DOOR POSITIONED AT AN ANGLE OF 90 DEGREES FROM ITS CLOSED POSITION. AT LEAST ONE OF A PAIR OF DOORS SHALL MEET THIS OPENING WIDTH REQUIREMENT.
- IN ADDITION TO ALL LOCAL CODES, ACCESSIBILITY REQUIREMENTS SHALL COMPLY WITH THE CALIFORNIA BUILDING CODE, TITLE 24, AS WELL AS FEDERAL A.D.A., (AMERICANS WITH DISABILITIES ACT).

### REQUIRED ACCESSIBLE PARKING STALLS

SECTION 1129B TABLE 11B-6	REGULAR PARKING PROVIDED	ACCESSIBLE PARKING REQUIRED / PROVIDED	VAN ACCESSIBLE PARKING REQUIRED / PROVIDED	TOTAL PARKING PROVIDED	DESIGNED LOW-EMITTING, FUEL-EFFICIENT, CARPOOL/VAN VEHICLES REQUIRED / PROVIDED (CAL Green Code SECTION 5.106.5.2)
STAFF PARKING	75	3/4	1/4	75	8/8
VISTOR PARKING	532	11/12	2/8	532	532X8%~43 43/43

### VICINITY MAP



CAREER TECHNICAL EDUCATION CENTER  
7301 Old River Rd, Bakersfield, CA 93311

NTS

### PROJECT INFORMATION

#### (6) 20'X20'X15' PERMANENT SHADE STRUCTURE

#### CONSTRUCTION TYPE:

CBC CHAPTER 3 SEC. 305.1: Group A-3

#### OCCUPANCY TYPE:

CBC CHAPTER 6 SEC. 602: V-B

#### BUILDING HEIGHT:

1 STORY (15'-0" HEIGHT)

#### STORIES:

CBC TABLE 503 (1) STORY

#### PROJECT AREA:

FIRST FLOOR AREA:	=	600x(6)SF	ALLOWABLE S.F.	
SECOND FLOOR AREA:	=	0SF	(3)THREE 20'X30'X15' SHADE STRUCTURES	1,800 S.F.
TOTAL BUILDING AREA:	=	3,600 SF	AREA #2 ALLOWABLE S.F.	(3)THREE 20'X30'X15' SHADE STRUCTURES 1,800 S.F.

#### FIRE SPRINKLERS:

CBC SECTION 903.2.1.3: No

#### SITE DESIGN INFORMATION:

##### EARTHQUAKE DESIGN PARAMETERS

SS 1.008 MCER GROUND MOTION (PERIOD=0.2S)  
S1 0.369 MCER GROUND MOTION (PERIOD=1.0S)  
SDS 1.21 SITE-MODIFIED SPECTRAL ACCELERATION VALUE  
SDS 0.806 NUMERIC SISMIC DESIGN VALUE AT 0.2S SA  
SITE CLASS: D DEFAULT

##### WIND DESIGN PARAMETERS

RISK CATEGORY: III  
WIND SPEED: 100 MPH  
WIND EXPOSURER: C  
LATITUDE: 35.283649  
LONGITUDE: -119.1106011  
FOUNDATION BASED ON CBC 2022, TABLE 180A2, SOIL CLASS 5 (ALLOWABLE FOUNDATION PRESSURE 1500PSF)

##### FLOOD HAZARD

FLOOD ZONE DESIGNATION: X  
FIRM PANEL# 06029C2300E  
EFF DATE: 9/26/2008

### ARCHITECT'S STATEMENT

#### STATEMENT OF GENERAL CONFORMANCE

FOR ARCHITECTS / ENGINEERS WHO UTILIZE PLANS, INCLUDING BUT NOT LIMITED TO SHOP DRAWINGS, PREPARED BY OTHER LICENSED DESIGN PROFESSIONALS AND/OR CONSULTANTS

☒ THE DRAWING PAGE OF SPECIFICATIONS/CALCULATIONS, OR THE ATTACHED LIST OF DRAWINGS HAVE BEEN PREPARED BY OTHER DESIGN PROFESSIONALS OF CONSULTANTS WHO ARE LICENSED AND/OR AUTHORIZED TO PREPARE SUCH DRAWINGS IN THIS STATE. IT HAS BEEN EXAMINED BY ME FOR:

- DESIGN INTENT AND APPEARS TO MEET THE APPROPRIATE REQUIREMENTS OF TITLE 24, CALIFORNIA CODE OF REGULATIONS AND THE PROJECT SPECIFICATIONS PREPARED BY ME, AND
- COORDINATION WITH MY PLANS AND SPECIFICATIONS AND IS 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, 4-344" OF TITLE 24, PART 1, (TITLE 24, PART 1, SECTION 4-317 [d])

☒ THE DRAWINGS OR SHEETS LISTED ON THE SHEET INDEX SHEET WITH \*

REFER TO SHEET INDEX FOR A LIST OF "DRAWINGS PREPARED BY OTHERS" INCLUDING ALL DRAWINGS AND / OR CALCULATIONS PREPARED BY:

USA SHADE PC #04-121917  
(6)SIX 20'X30'X15' FULL CANTILEVER HIP SINGLE

#### I CERTIFY THAT THIS DRAWING OR PAGE (CHECK BOTH BOXES):

- ☒ IS IN GENERAL CONFORMANCE WITH THE PROJECT DESIGN INTENT, AND  
☒ HAS BEEN COORDINATED WITH THE PROJECT PLANS AND SPECIFICATIONS.

*Manuel Maldonado Jr.*  
ARCHITECTS SIGNATURE

ARCHITECTS OR ENGINEER DESIGNATED TO BE IN GENERAL RESPONSIBLE CHARGE

MANUEL MALDONADO JR.

PRINT NAME

C-36294

LICENSE NUMBER

DECEMBER 31, 2025

EXPIRATION DATE







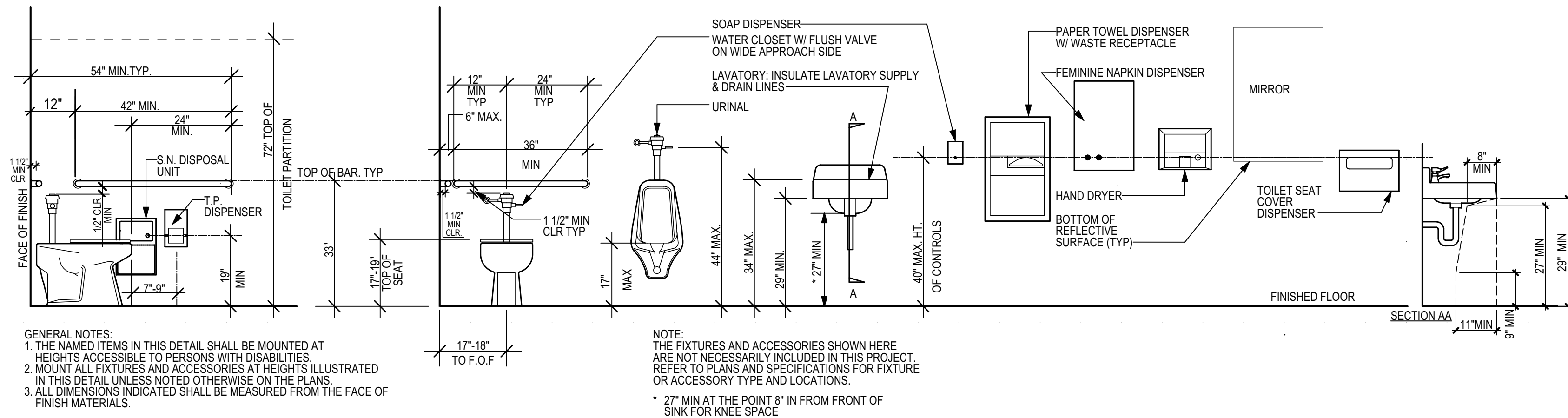


SHEETS IN SET 11





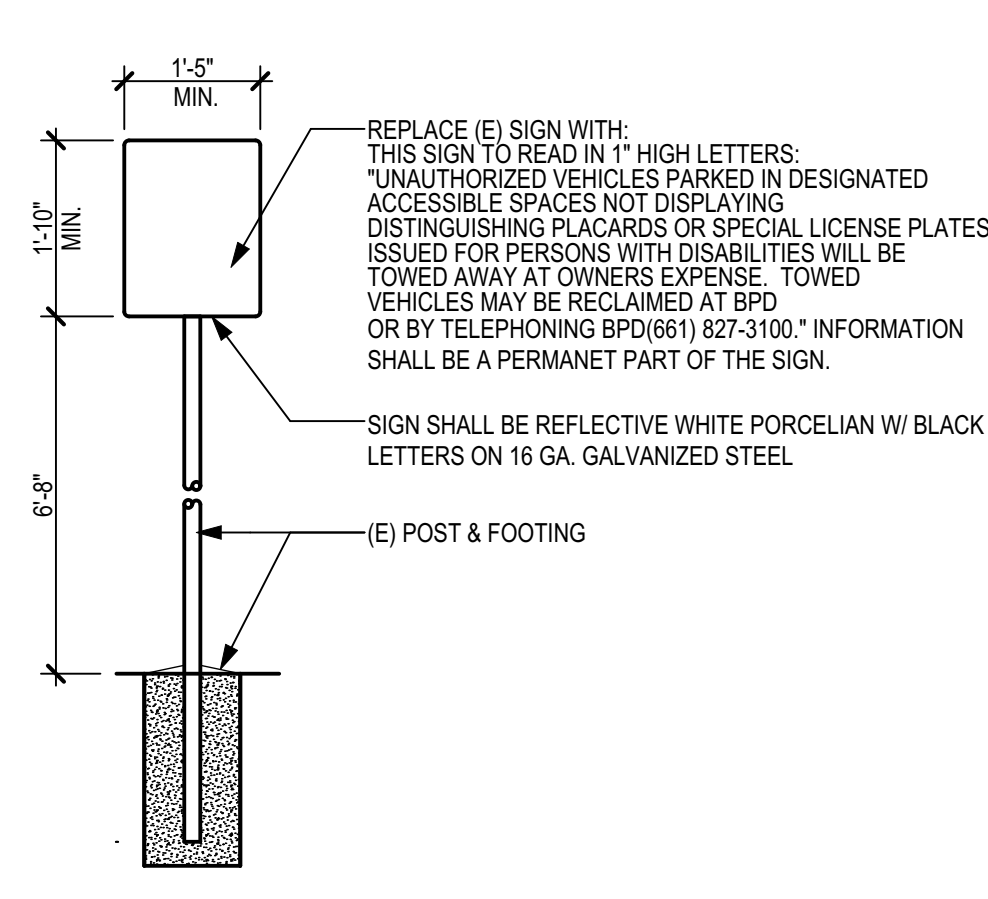




GENERAL NOTES:  
1. THE NAMED ITEMS IN THIS DETAIL SHALL BE MOUNTED AT HEIGHTS ACCESSIBLE TO PERSONS WITH DISABILITIES.  
2. MOUNT ALL FIXTURES AND ACCESSORIES AT HEIGHTS ILLUSTRATED IN THIS DETAIL UNLESS NOTED OTHERWISE ON THE PLANS.  
3. ALL DIMENSIONS INDICATED SHALL BE MEASURED FROM THE FACE OF FINISH MATERIALS.

NOTE:  
THE FIXTURES AND ACCESSORIES SHOWN HERE ARE NOT NECESSARILY INCLUDED IN THIS PROJECT. REFER TO PLANS AND SPECIFICATIONS FOR FIXTURE OR ACCESSORY TYPE AND LOCATIONS.  
\* 27" MIN AT THE POINT 8" IN FROM FRONT OF SINK FOR KNEE SPACE

**D1** DETAIL ACCESSORY MOUNTING HEIGHT (ADULT)  
SCALE: 1/2" = 1'-0"

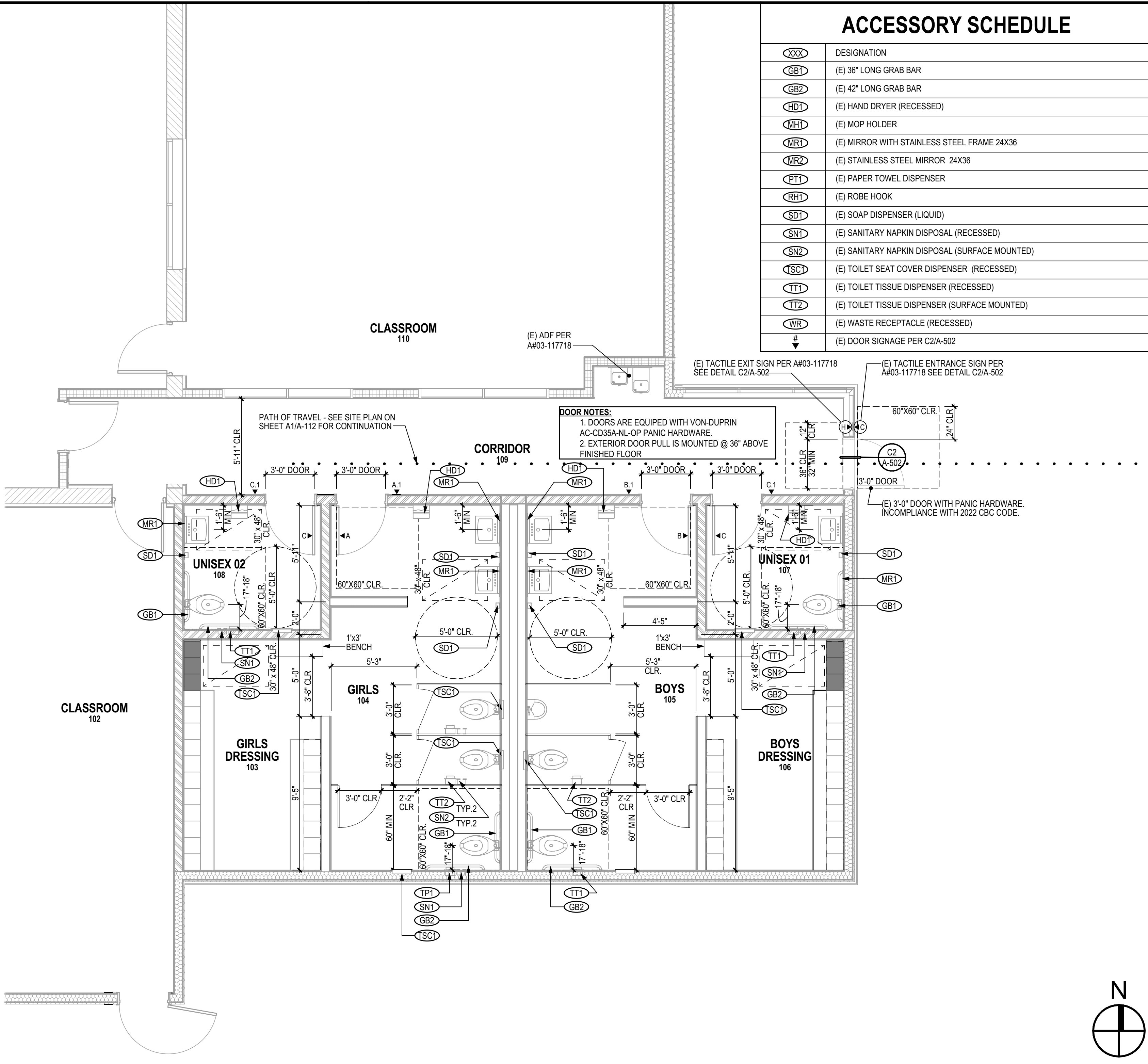


REPLACE (E) SIGN WITH:  
THIS SIGN TO READ IN 1" HIGH LETTERS:  
"UNAUTHORIZED VEHICLES PARKED IN DESIGNATED ACCESSIBLE SPACES NOT DISPLAYING DISTINGUISHING PLACARDS OR SPECIAL LICENSE PLATES ISSUED FOR PERSONS WITH DISABILITIES WILL BE TOWED AWAY AT OWNERS EXPENSE. TOWED VEHICLES MAY BE RECLAIMED AT BPD OR BY TELEPHONING BPD(861) 827-3100." INFORMATION SHALL BE A PERMANENT PART OF THE SIGN.

SIGN SHALL BE REFLECTIVE WHITE PORCELAIN W/ BLACK LETTERS ON 16 GA. GALVANIZED STEEL

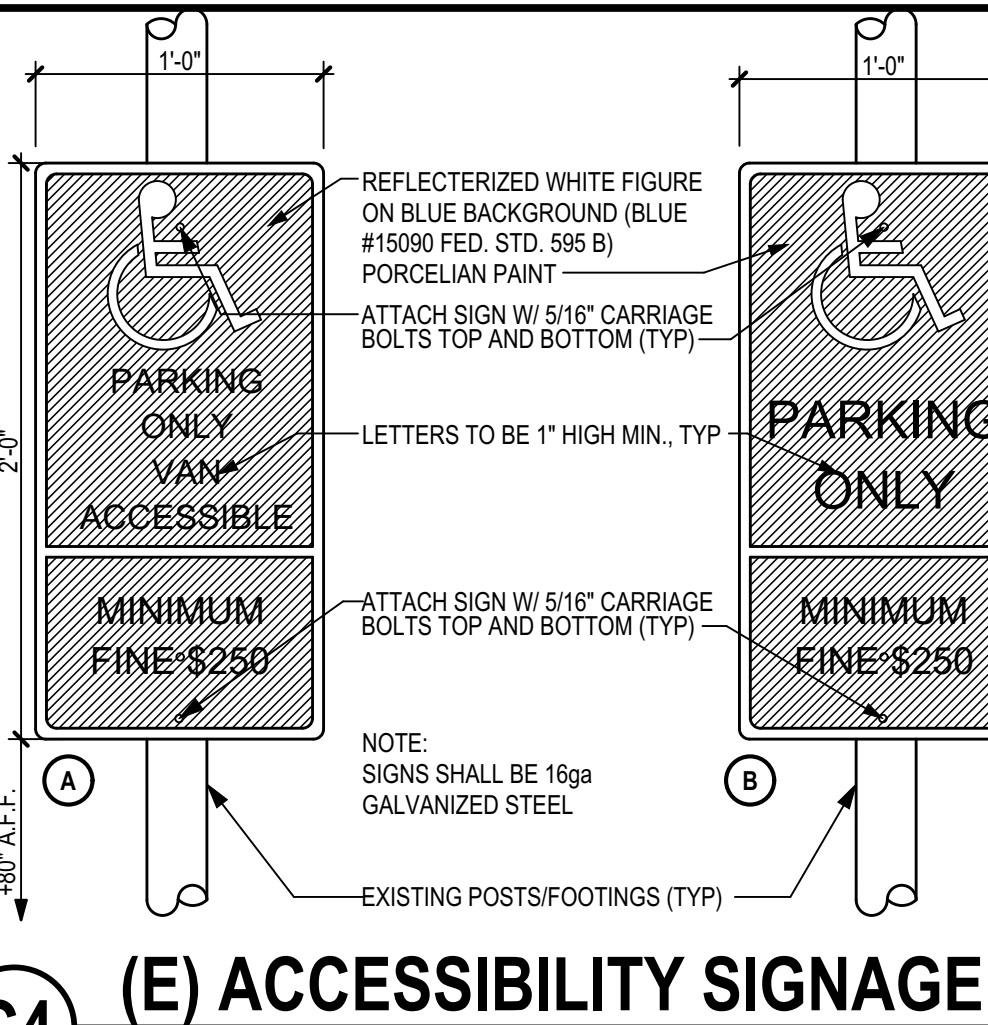
(E) POST & FOOTING

**D4** (E) AUTHORIZATION SIGN  
SCALE: 1/2" = 1'-0"

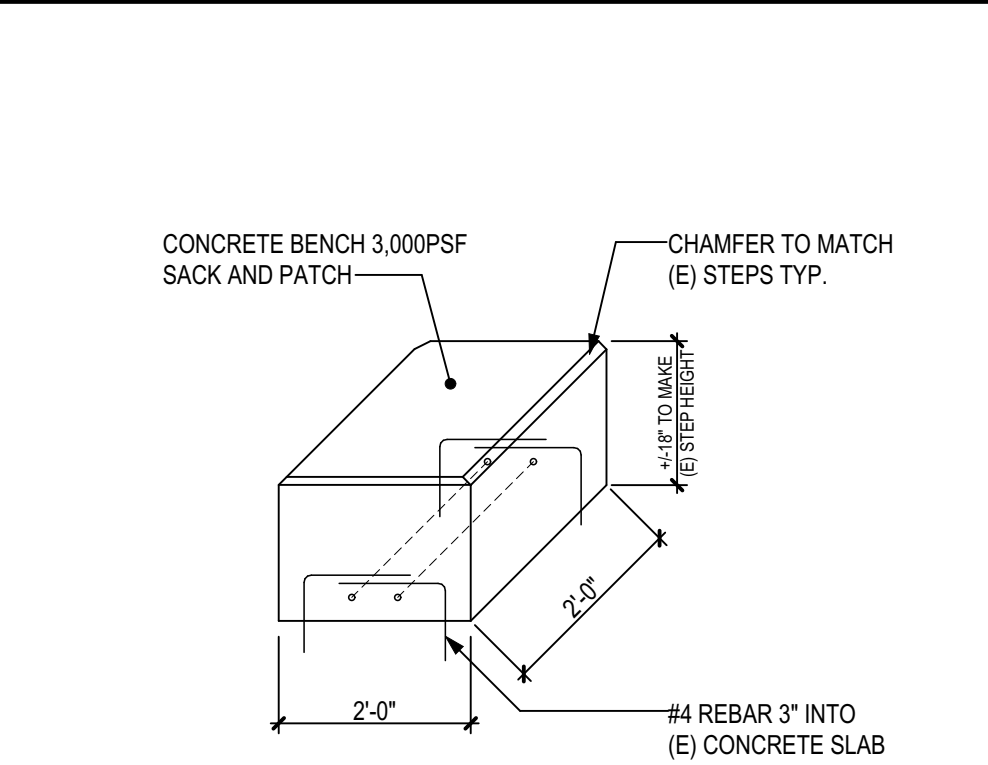


### ACCESSORY SCHEDULE

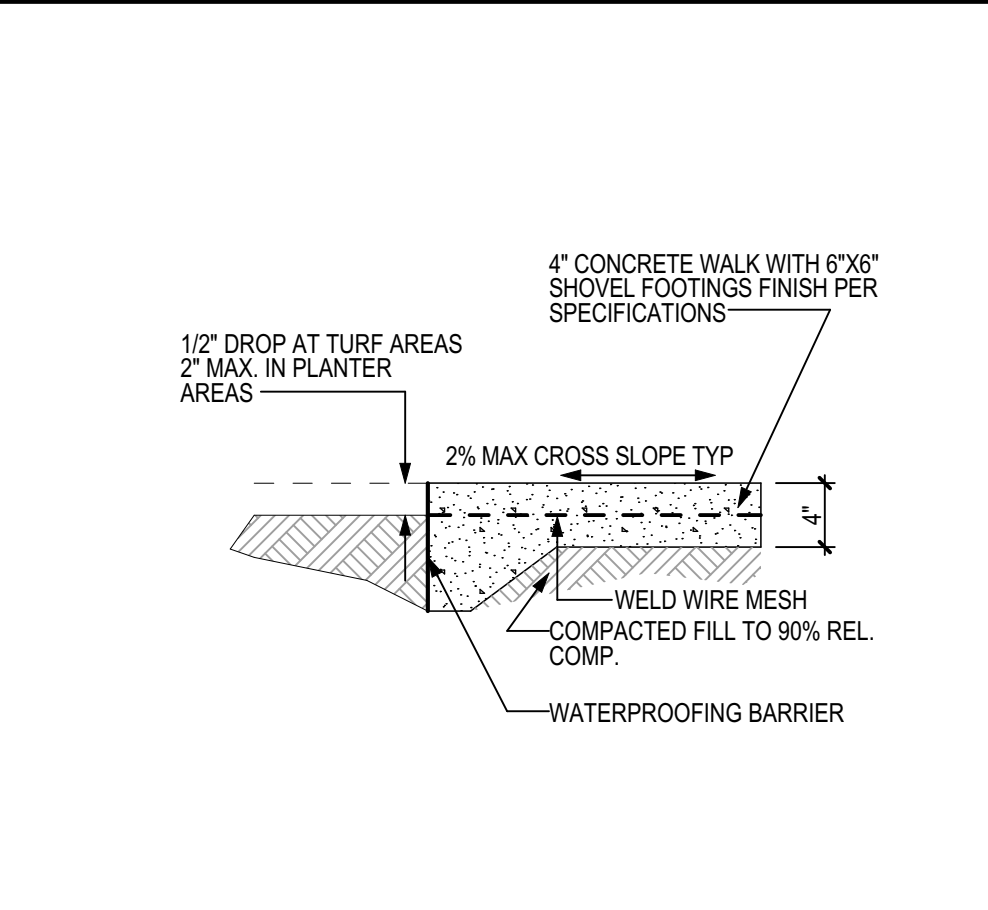
XXX	DESIGNATION
GB1	(E) 36" LONG GRAB BAR
GB2	(E) 42" LONG GRAB BAR
HDT	(E) HAND DRYER (RECESSED)
MH1	(E) MOP HOLDER
MR1	(E) MIRROR WITH STAINLESS STEEL FRAME 24X36
MR2	(E) STAINLESS STEEL MIRROR 24X36
PT1	(E) PAPER TOWEL DISPENSER
RH1	(E) ROBE HOOK
SD1	(E) SOAP DISPENSER (LIQUID)
SN1	(E) SANITARY NAPKIN DISPOSAL (RECESSED)
SN2	(E) SANITARY NAPKIN DISPOSAL (SURFACE MOUNTED)
TSC1	(E) TOILET SEAT COVER DISPENSER (RECESSED)
TT1	(E) TOILET TISSUE DISPENSER (RECESSED)
TT2	(E) TOILET TISSUE DISPENSER (SURFACE MOUNTED)
WR	(E) WASTE RECEPTACLE (RECESSED)
#	(E) DOOR SIGNAGE PER C2/A-502



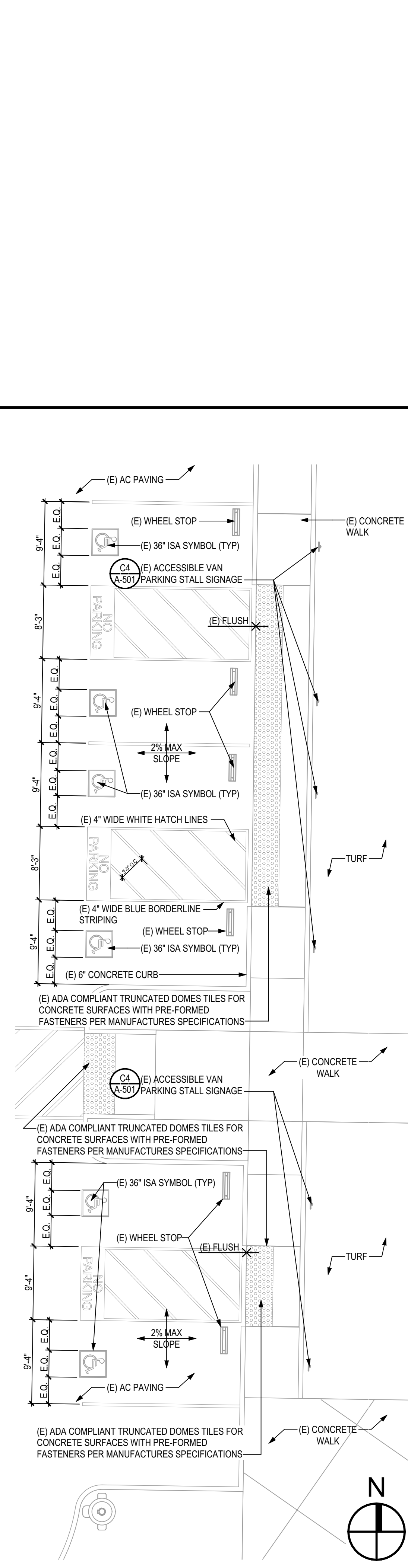
**C4** (E) ACCESSIBILITY SIGNAGE  
SCALE: 1 1/2" = 1'-0"



**B4** CONCRETE SEATING  
SCALE: 1/2" = 1'-0"



**A4** TURF TO CONCRETE  
SCALE: 1" = 1'-0"



**A5** (E) ACCESSIBLE PARKING  
SCALE: 1/8" = 1'-0"

IDENTIFICATION STAMP  
DIV. OF THE STATE ARCHITECT  
APP: 03-124446 INC:  
REVIEWED FOR  
SS ☒ FLS ☒ ACS ☒  
DATE: 07/31/2024

**ordiz melby architects**  
a professional corporation  
55500 Ming Avenue, Suite 280  
Bakersfield, CA 93309  
o: (661) 832-5258  
f: (661) 832-4291  
www.ordizmelby.com



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PTN: 63529-486  
CAD DRAWING FILE:  
2337 CTC SHADE STRUCTURES ARCH25.pln  
DRAWN BY:  
ASI  
CHECKED BY:  
HS  
CHECK AND VERIFY ALL DIMENSIONS BEFORE PROCEEDING WITH THE WORK. REPORT DISCREPANCIES TO THE ARCHITECT.  
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**SHEET TITLE**  
**DETAILS**

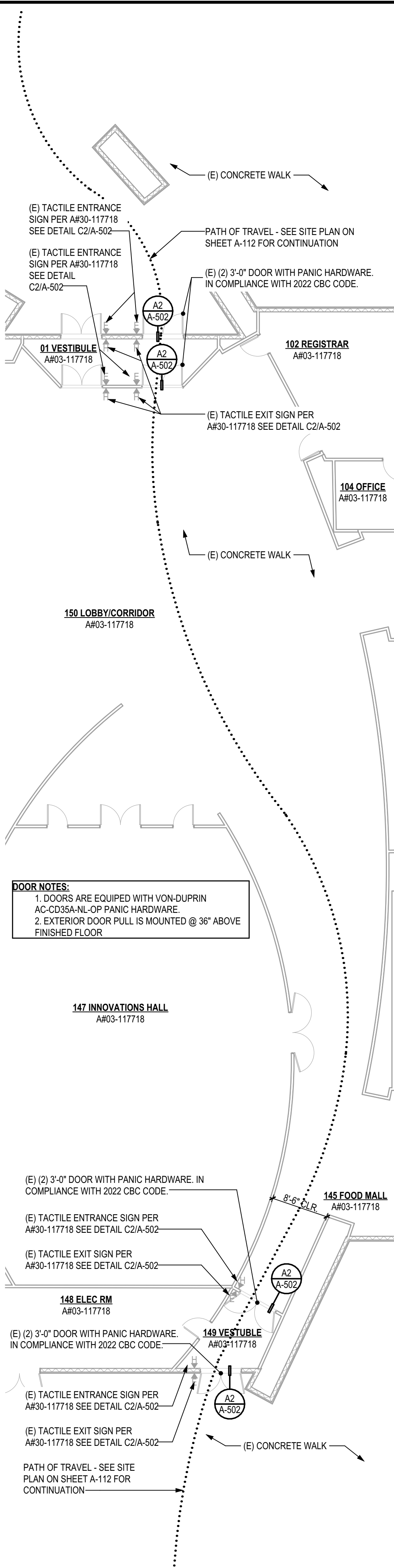
**SHEET IDENTIFICATION NUMBER**

**A-501**

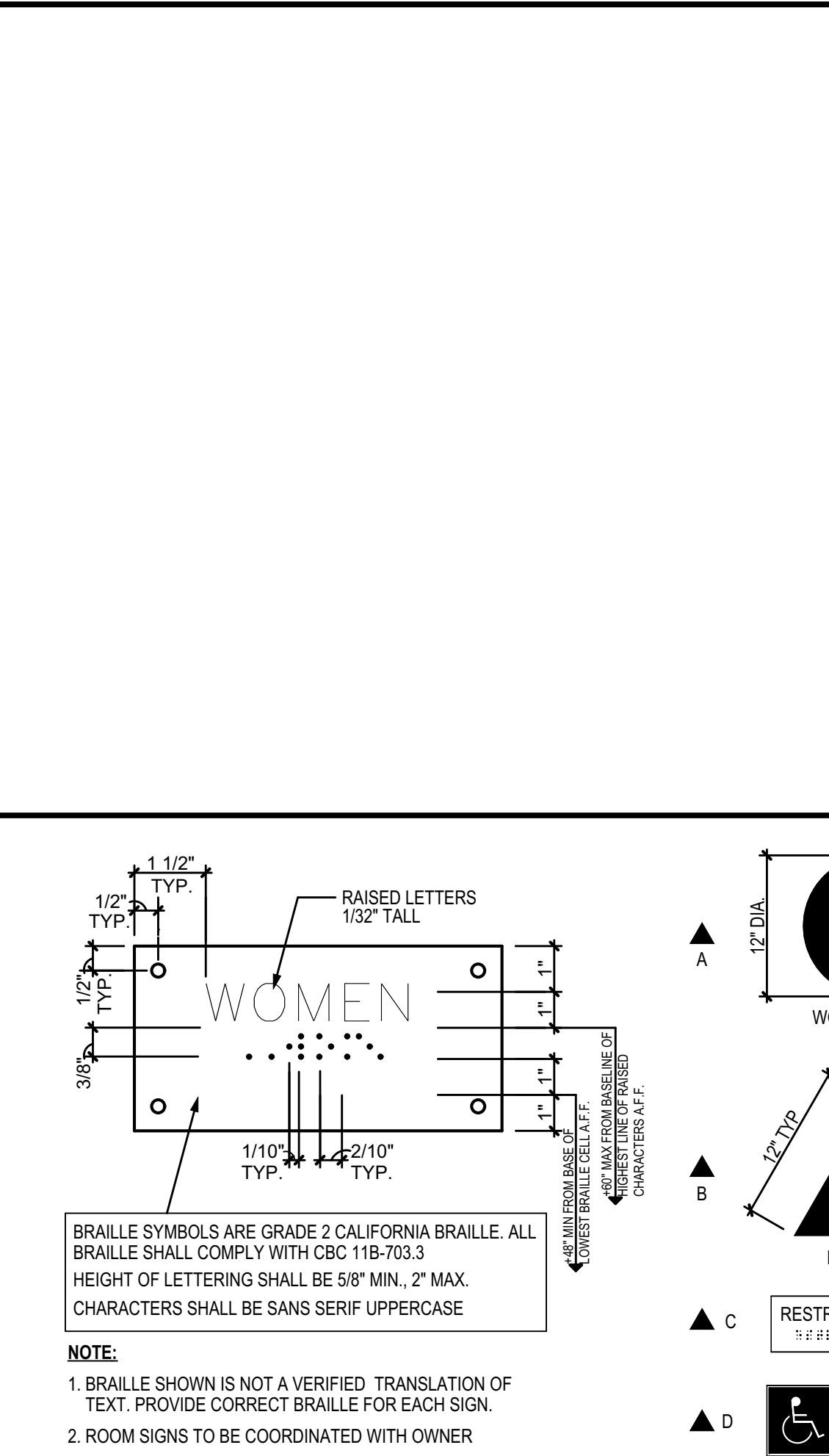
SHEETS IN SET 11



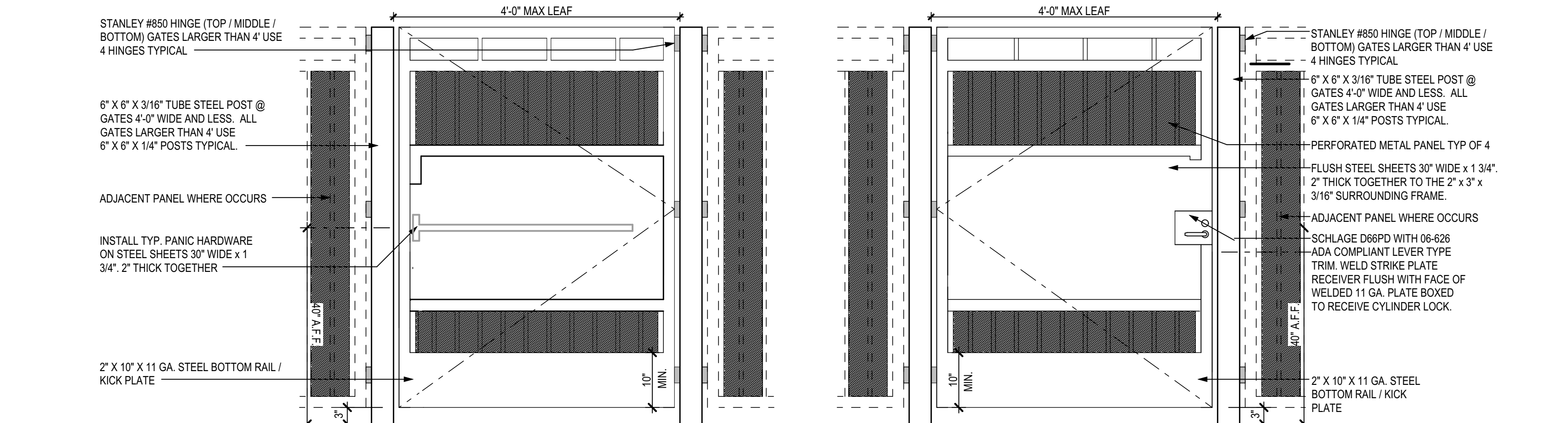
PLOT TIME: 2:25 PM  
PLOT DATE: 7/25/2024  
PLOT BY: J. MALDONADO  
C:\Users\jmaldo\OneDrive\Documents\2337 CTC SHADE STRUCTURES ARCH25.dwg



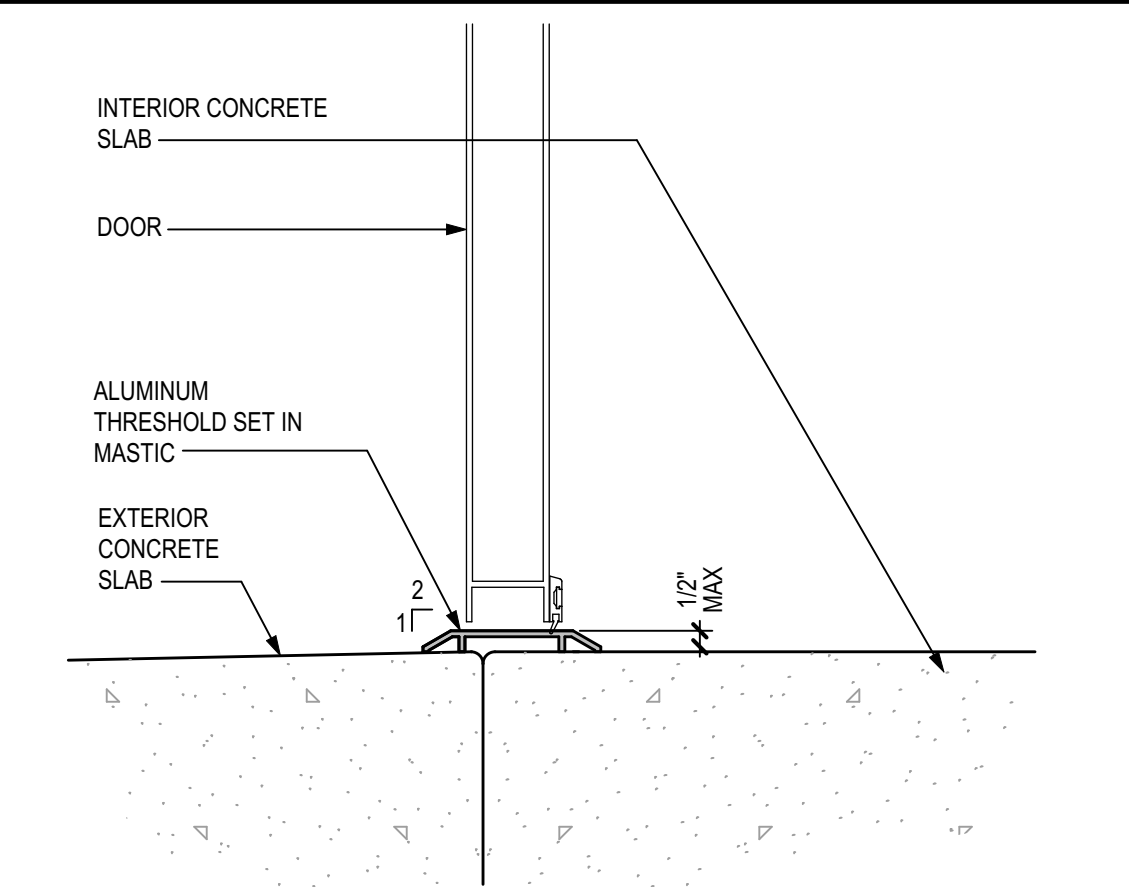
**A1** ENLARGED FLOOR PLAN  
SCALE: 3/32" = 1'-0"  
NO WORK IN THIS AREA



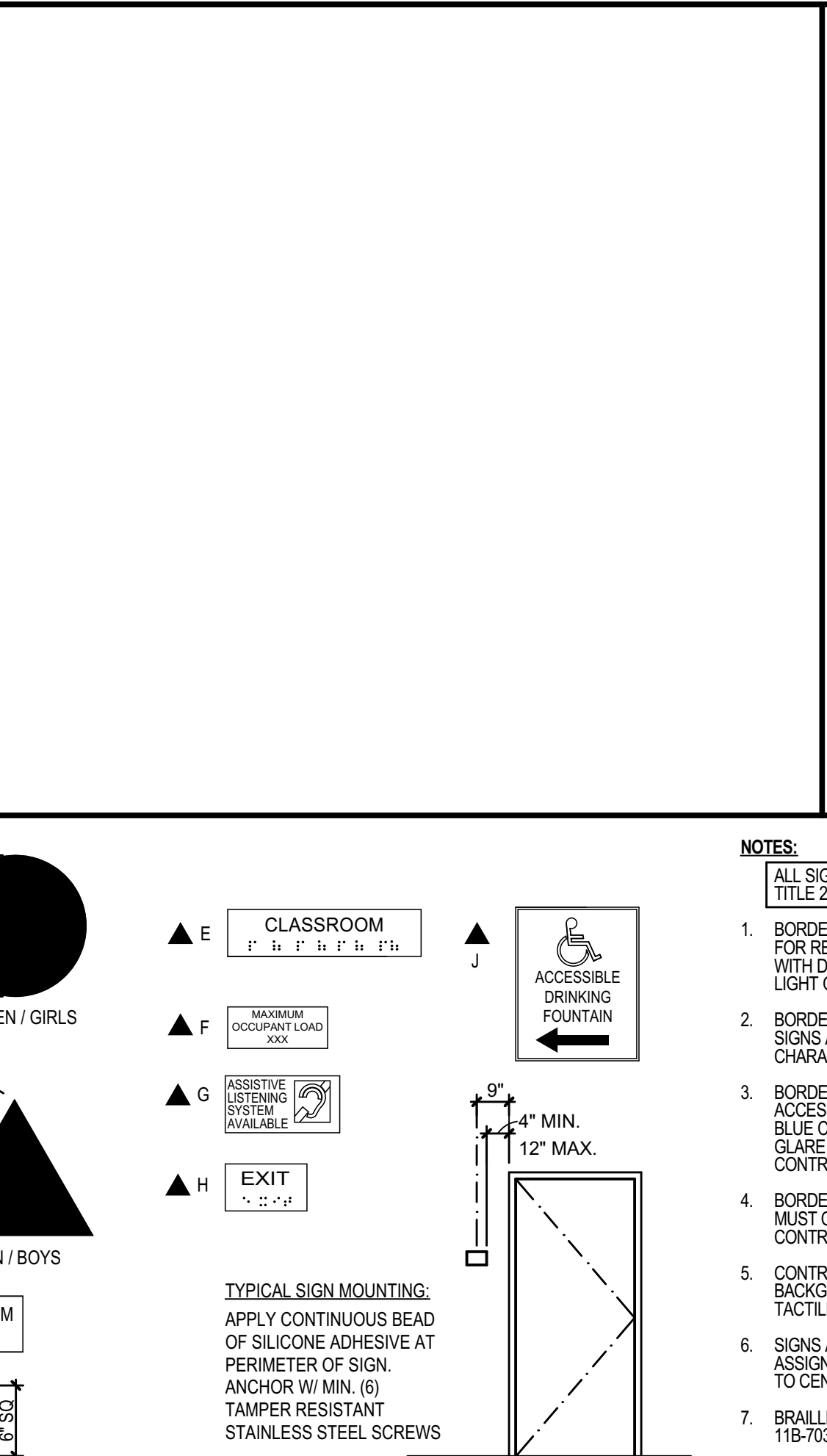
**C2** (E) SIGNS  
SCALE: 1" = 1'-0"



**B2** (E) ORNAMENTAL ACCESSIBLE GATE  
SCALE: 3/4" = 1'-0"  
NO WORK IN THIS AREA



**A2** (E) DOOR THRESHOLD  
SCALE: 3" = 1'-0"  
NO WORK IN THIS AREA

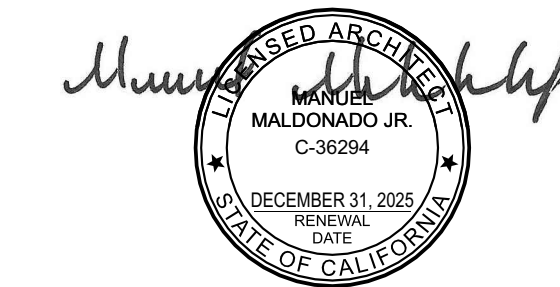


**A3** CONC. JOINT DETAIL  
SCALE: 1" = 1'-0"

- NOTES:**
- ALL SIGNAGE MUST CONFORM TO CALIFORNIA TITLE 24 REGULATIONS, SECTION 11B-703.
  - BORDERLESS GEOMETRIC SYMBOL DOOR SIGNS FOR RESTROOMS MUST CONTRAST IN COLOR WITH DOOR BY 70% MIN, DARK ON LIGHT OR LIGHT ON DARK.
  - BORDERLESS GENDER SYMBOLS ON RESTROOM SIGNS ARE TO BE PLACED ABOVE RAISED CHARACTERS AND BRAILLE ON TACTILE SIGN.
  - BORDERLESS INTERNATIONAL SYMBOL OF ACCESSIBILITY IS TO BE WHITE ON FEDERAL BLUE COLOR # 15090 BACKGROUND WITH A NON GLARE FINISH MAINTAINING A POSITIVE CONTRAST IN COLOR WITH DOOR BY 70% MIN.
  - BORDERLESS UNISEX DOOR SIGNS, TRIANGLE MUST CONTRAST WITH THE CIRCLE WHICH MUST CONTRAST WITH THE DOOR BY 70% MIN.
  - CONTRAST BETWEEN CHARACTERS AND BACKGROUND MUST BE 70% MINIMUM ON ALL TACTILE SIGNAGE WITH A NON GLARE FINISH.
  - SIGNS A, B, & C SHALL BE CENTERED ON THE ASSIGNED DOOR AND 60" ABOVE FINISH FLOOR TO CENTERLINE.
  - BRAILLE ON SIGNS SHALL COMPLY WITH CBC 11B-703.3

IDENTIFICATION STAMP  
DIV. OF THE STATE ARCHITECT  
APP: 03-124446 INC:  
REVIEWED FOR  
SS ☒ FLS ☒ ACS ☒  
DATE: 07/31/2024

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JEANINE S. BERTOLACINI, AIA  
ARCHITECT C-35596  
JAMES R. VARNER, AIA  
ARCHITECT C-10963  
JOSEPH E. ZASOSKI, AIA  
ARCHITECT C-36742

**INSTALLATION OF (6)  
SIX SHADE  
STRUCTURES @  
CAREER TECHNICAL  
EDUCATION CENTER**  
7301 Old River Rd, Bakersfield, CA 93311  
**FOR:**  
**KERN HIGH SCHOOL DISTRICT**  
5801 SUNDALE AVE, BAKERSFIELD, CA 93309



MARK	DATE	DESCRIPTION

JOB NUMBER:  
**2337**  
AR: 03-124446  
PTN: 03529-486  
CAD DRAWING FILE:  
2337 CTC SHADE STRUCTURES ARCH25.pln  
DRAWN BY:  
ASI  
CHECKED BY:  
HS  
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SHEET TITLE  
**DETAILS**

SHEET IDENTIFICATION NUMBER

**A-502**

SHEETS IN SET 11





# FABRIC SHADE STRUCTURE DSA P.C. 04-121917

GENERAL NOTES:

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

PLANS FOR SPECIFIC APPLICATION SHALL INCLUDE THE FOLLOWING:

- COMPLETE SCOPE OF WORK INCLUDING THE SHADE STRUCTURE MODEL NUMBER, P.C. NUMBER, AND SPECIFIC SIZE OF THE SHADE STRUCTURE(S).
- PROVIDE A CODE ANALYSIS, INCLUDING ACTUAL SHADE STRUCTURE AREA (SQ. FT.), OCCUPANCY TYPE (A-3), AND TYPE OF CONSTRUCTIONS (V-B). INDICATE OCCUPANT LOAD FACTOR (2022 CBC, SECTION 1004).
- ACTUAL DIMENSIONS OF SHADE STRUCTURES.
- DIMENSIONS FROM ADJACENT STRUCTURES AND PROXIMITY OF ASSUMED OR ACTUAL PROPERTY LINES.
- INDICATE LOCATIONS OF FIRE EXTINGUISHERS WITHIN 75 FEET.
- SHOW LOCATION OF AUDIBLE FIRE ALARM.
- ALL SADDLES, CLAMPS AND FITTINGS SHALL CONFORM TO THE GUIDELINES AS SPECIFIED IN APPENDICES "A, B, & C", RESPECTIVELY, IN ASCE/SEI 19-16, "STRUCTURAL APPLICATIONS OF STEEL CABLES FOR BUILDINGS."
- ARCHITECTS OF RECORD TO DETERMINE IF SPECIFIC SITE IS LOCATED IN A MAPPED GEOLOGIC HAZARD ZONE. GEOHAZARD REPORTS REQUIREMENTS SHALL COMPLY WITH DSA IR A-4.
- ARCHITECTS OF RECORD TO DETERMINE IF SPECIFIC SITE IS LOCATED IN A MAPPED FIRE HAZARD SEVERITY ZONE OR WILDLAND INTERFACE AREA.
- FOR SNOW LOAD MODELS ONLY:
- INDICATE DIMENSIONS FROM THE ROOF TO THE HIGHER STRUCTURE OR TERRAIN FEATURE. MINIMUM DIMENSION OF 20'-0" FOR SNOW LOAD MODEL (ASCE 7-16).
- ACTUAL SITE ELEVATION (FEET) TO DETERMINE IF THE SITE OCCURS AT OR BELOW THE UPPER ELEVATION LIMIT FOR THE GROUND SNOW LOAD SHOWN IN ASCE 7-16.

PLANS FOR SPECIFIC APPLICATION SHALL INCLUDE THE FOLLOWING:

LIST OF APPLICABLE CODES:

- 2022 CALIFORNIA ADMINISTRATIVE CODE (CAC), PART 1, TITLE 24 C.C.R.
- 2022 CALIFORNIA BUILDING CODE (CBC), PART 2, TITLE 24 C.C.R.
- 2022 CALIFORNIA ELECTRICAL CODE (CEC), PART 3, TITLE 24 C.C.R.
- 2022 CALIFORNIA MECHANICAL CODE (CMC), PART 4, TITLE 24 C.C.R.
- 2022 CALIFORNIA PLUMBING CODE (CPC), PART 5, TITLE 24 C.C.R.
- 2022 CALIFORNIA ENERGY CODE (CEC), PART 6, TITLE 24 C.C.R.
- 2022 CALIFORNIA FIRE CODE, PART 9, TITLE 24 C.C.R.
- 2022 CALIFORNIA EXISTING BUILDING CODE (CEBC), PART 10, TITLE 24 C.C.R.
- 2022 CALIFORNIA GREEN BUILDING STANDARDS CODE (CALGREEN), PART 11, TITLE 24 C.C.R.
- 2022 CALIFORNIA REFERENCED STANDARDS CODE, PART 12, TITLE 24 C.C.R.
- TITLE 19 C.C.R., PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS

APPLICABLE STANDARDS:

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

## APPLICABLE CODES

SITE SPECIFIC PARAMETERS			
INSTRUCTIONS: DESIGN PROFESSIONAL SHALL CHECK THE APPROPRIATE SELECTION BOXES BELOW AND ENTER THE DESIGN PARAMETERS APPLICABLE TO THE SPECIFIC PROJECT SITE			
SEISMIC			
<input type="checkbox"/> DESIGN BASED ON SITE CLASS $D_{max}$ NO GEOTECHNICAL INVESTIGATION REQUIRED SITE CLASS: <input type="checkbox"/> C <input type="checkbox"/> D <input type="checkbox"/> E <input type="checkbox"/> F <input type="checkbox"/> G <input type="checkbox"/> H <input type="checkbox"/> I <input type="checkbox"/> J <input type="checkbox"/> K <input type="checkbox"/> L <input type="checkbox"/> M <input type="checkbox"/> N <input type="checkbox"/> O <input type="checkbox"/> P <input type="checkbox"/> Q <input type="checkbox"/> R <input type="checkbox"/> S <input type="checkbox"/> T <input type="checkbox"/> U <input type="checkbox"/> V <input type="checkbox"/> W <input type="checkbox"/> X <input type="checkbox"/> Y <input type="checkbox"/> Z <input type="checkbox"/> AA <input type="checkbox"/> AB <input type="checkbox"/> AC <input type="checkbox"/> AD <input type="checkbox"/> AE <input type="checkbox"/> AF <input type="checkbox"/> AG <input type="checkbox"/> AH <input type="checkbox"/> AI <input type="checkbox"/> AJ <input type="checkbox"/> AK <input type="checkbox"/> AL <input type="checkbox"/> AM <input type="checkbox"/> AN <input type="checkbox"/> AO <input type="checkbox"/> AP <input type="checkbox"/> AQ <input type="checkbox"/> AR <input type="checkbox"/> AS <input type="checkbox"/> AT <input type="checkbox"/> AU <input type="checkbox"/> AV <input type="checkbox"/> AW <input type="checkbox"/> AX <input type="checkbox"/> AY <input type="checkbox"/> AZ <input type="checkbox"/> BA <input type="checkbox"/> BB <input type="checkbox"/> BC <input type="checkbox"/> BD <input type="checkbox"/> BE <input type="checkbox"/> BF <input type="checkbox"/> BG <input type="checkbox"/> BH <input type="checkbox"/> BI <input type="checkbox"/> BJ <input type="checkbox"/> BK <input type="checkbox"/> BL <input type="checkbox"/> BM <input type="checkbox"/> BN <input type="checkbox"/> BO <input type="checkbox"/> BP <input type="checkbox"/> BQ <input type="checkbox"/> BR <input type="checkbox"/> BS <input type="checkbox"/> BT <input type="checkbox"/> BU <input type="checkbox"/> BV <input type="checkbox"/> BW <input type="checkbox"/> BX <input type="checkbox"/> BY <input type="checkbox"/> BZ <input type="checkbox"/> CA <input type="checkbox"/> CB <input type="checkbox"/> CC <input type="checkbox"/> CD <input type="checkbox"/> CE <input type="checkbox"/> CF <input type="checkbox"/> CG <input type="checkbox"/> CH <input type="checkbox"/> CI <input type="checkbox"/> CJ <input type="checkbox"/> CK <input type="checkbox"/> CL <input type="checkbox"/> CM <input type="checkbox"/> CN <input type="checkbox"/> CO <input type="checkbox"/> CP <input type="checkbox"/> CQ <input type="checkbox"/> CR <input type="checkbox"/> CS <input type="checkbox"/> CT <input type="checkbox"/> CU <input type="checkbox"/> CV <input type="checkbox"/> CW <input type="checkbox"/> CX <input type="checkbox"/> CY <input type="checkbox"/> CZ <input type="checkbox"/> DA <input 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SEISMIC DESIGN CATEGORY: <input type="checkbox"/> A <input type="checkbox"/> B <input type="checkbox"/> C <input type="checkbox"/> D <input type="checkbox"/> E <input type="checkbox"/> F <input type="checkbox"/> G <input type="checkbox"/> H <input type="checkbox"/> I <input type="checkbox"/> J <input type="checkbox"/> K <input type="checkbox"/> L <input type="checkbox"/> M <input type="checkbox"/> N <input type="checkbox"/> O <input type="checkbox"/> P <input type="checkbox"/> Q <input type="checkbox"/> R <input type="checkbox"/> S <input type="checkbox"/> T <input type="checkbox"/> U <input type="checkbox"/> V <input type="checkbox"/> W <input type="checkbox"/> X <input type="checkbox"/> Y <input type="checkbox"/> Z <input type="checkbox"/> AA <input type="checkbox"/> AB <input type="checkbox"/> AC <input type="checkbox"/> AD <input type="checkbox"/> AE <input type="checkbox"/> AF <input type="checkbox"/> AG <input type="checkbox"/> AH <input type="checkbox"/> AI <input 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CODE ANALYSIS			
OCCUPANCY GROUP	OCCUPANT LOAD FACTOR	TOTAL OCCUPANT LOAD	SHADE STRUCTURE AREA (SF)

MANUFACTURER:

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

ARCHITECT:

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

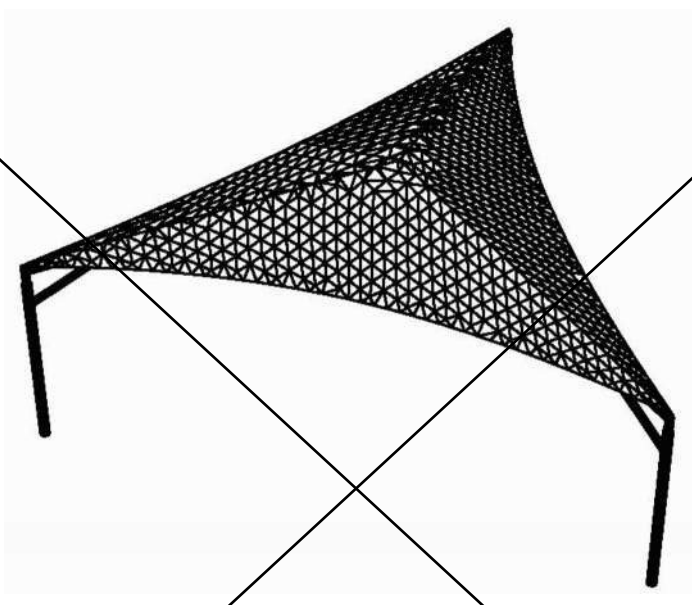
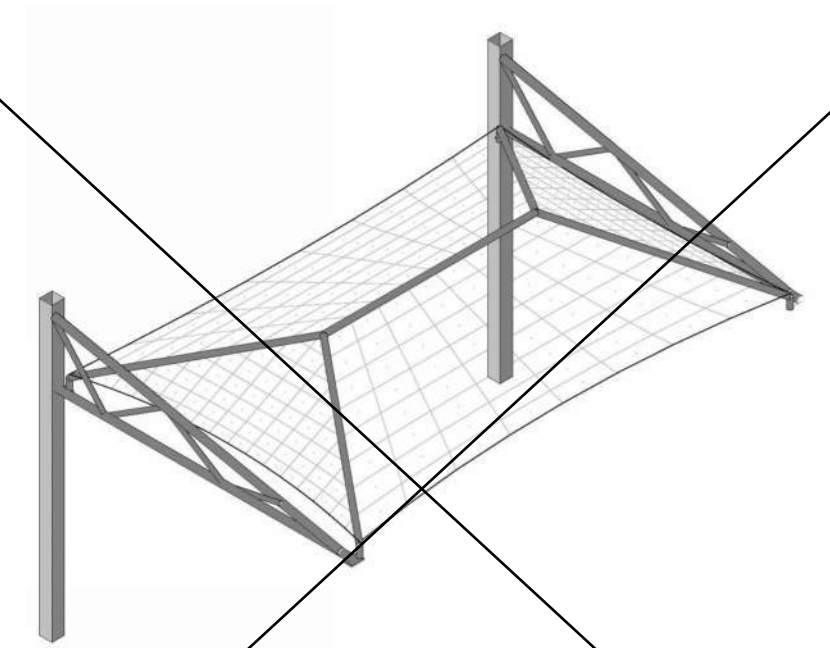
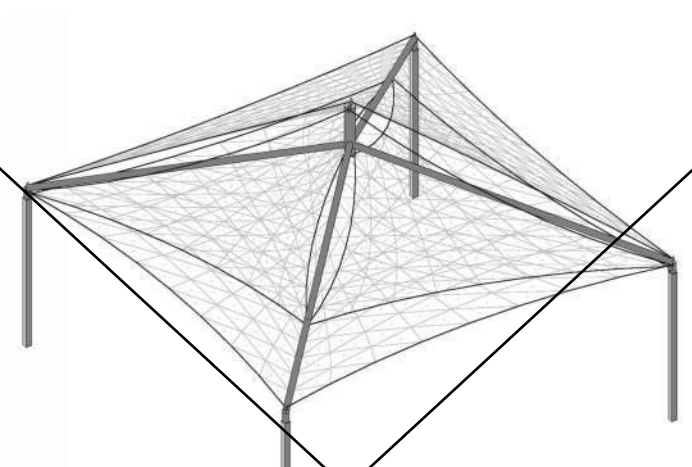
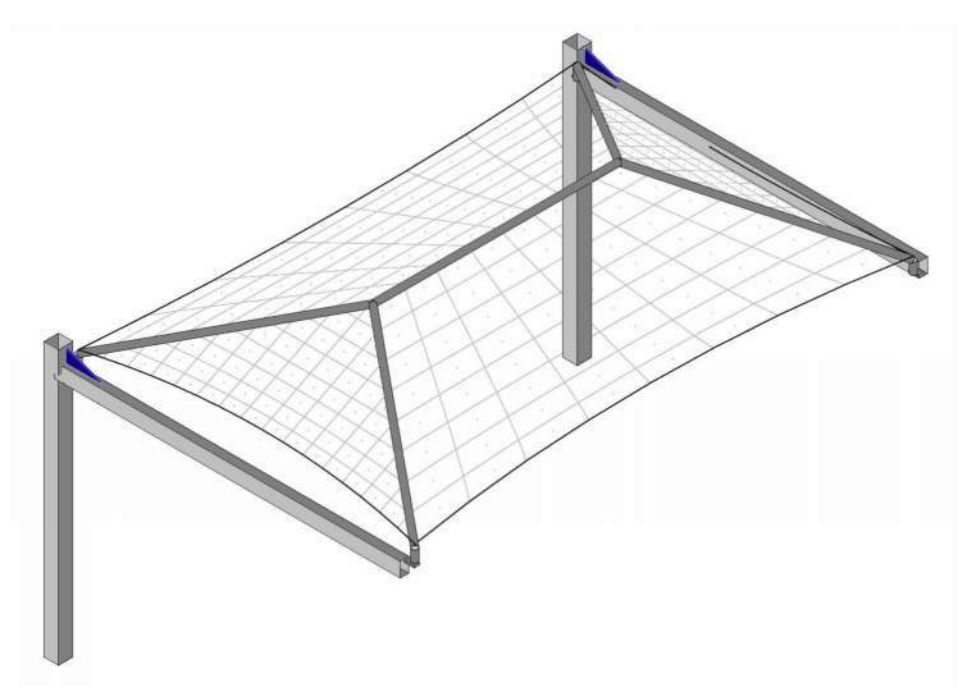
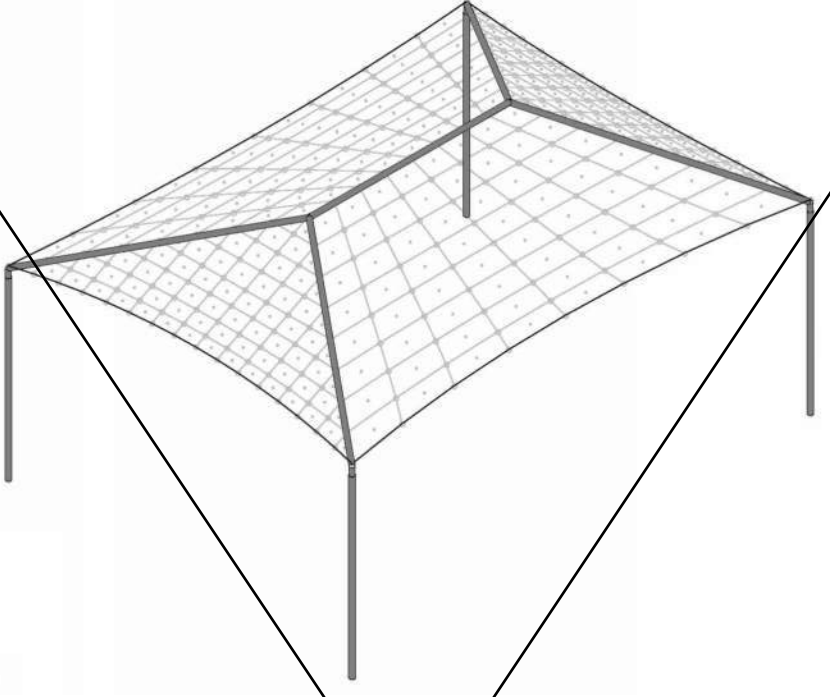

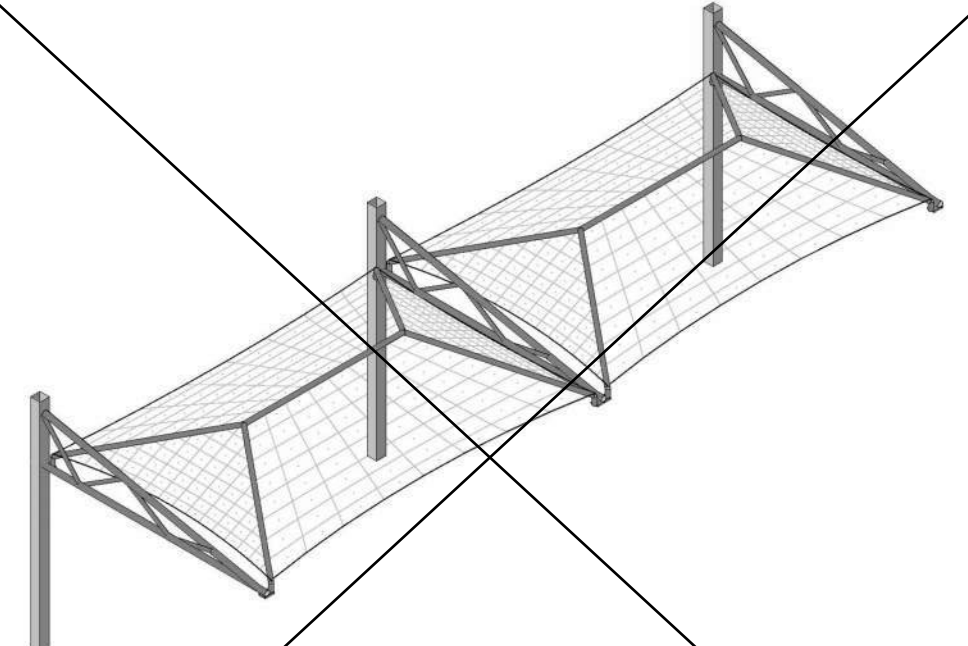
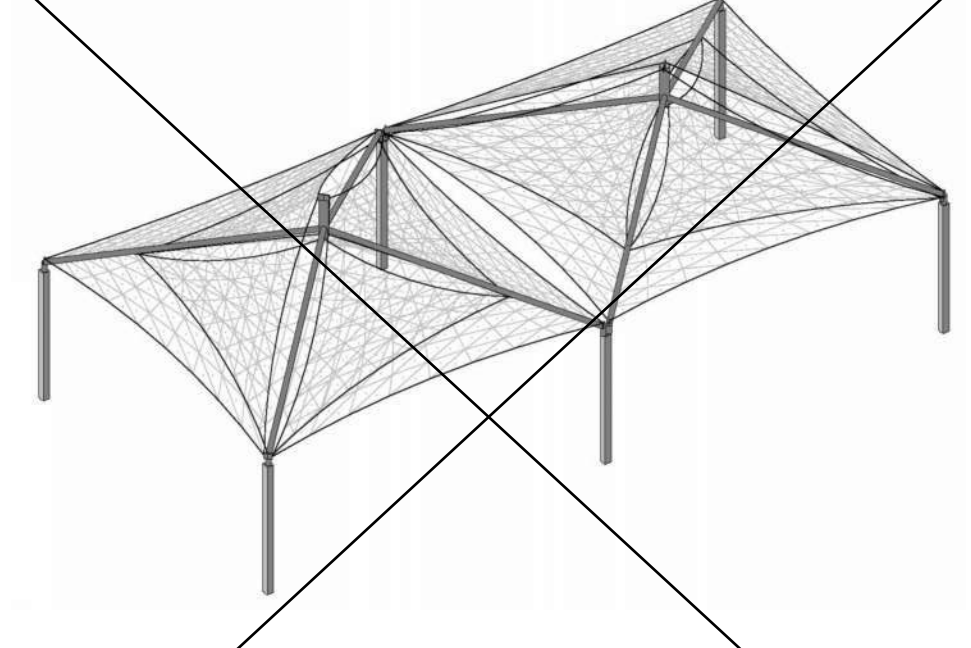
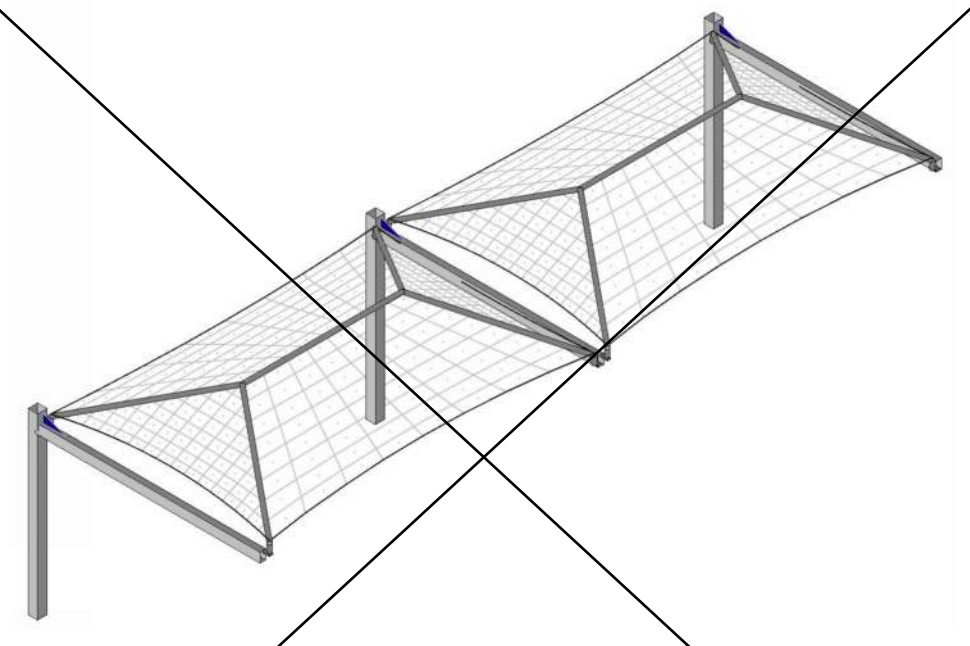
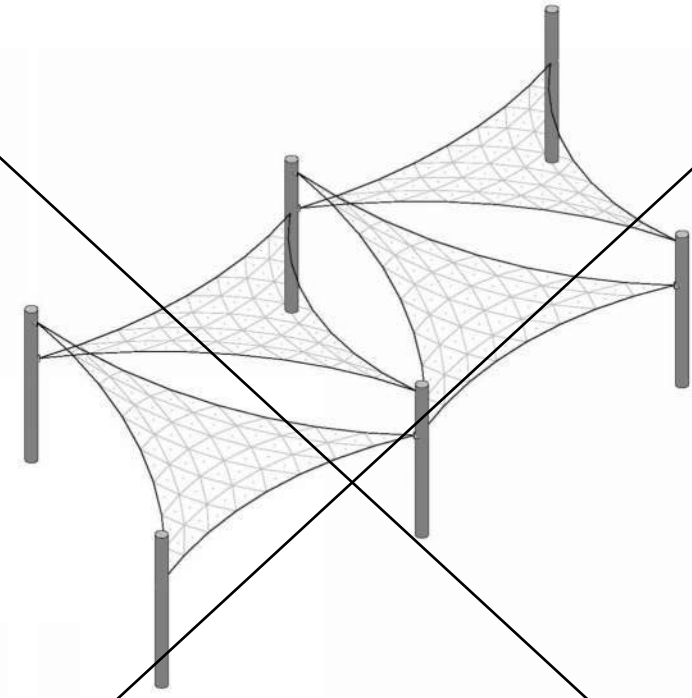
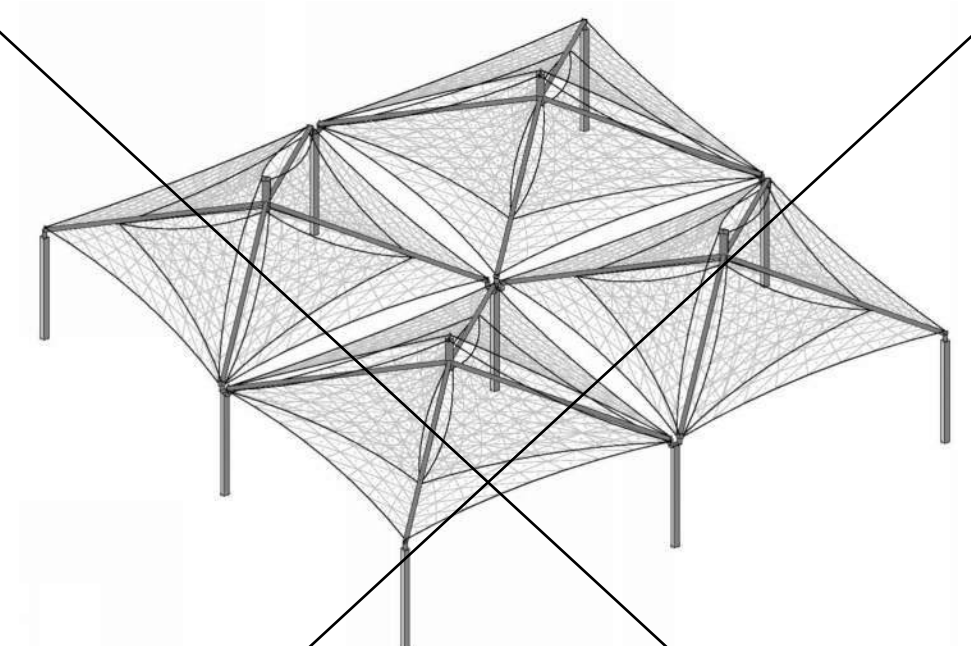
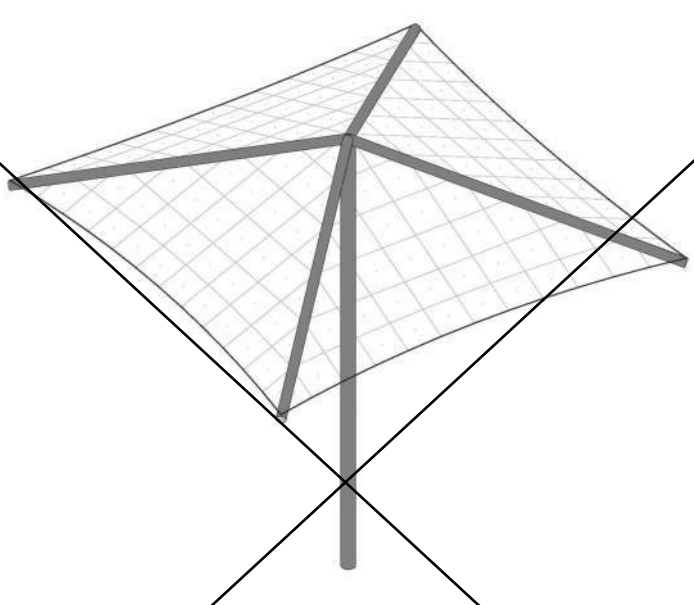
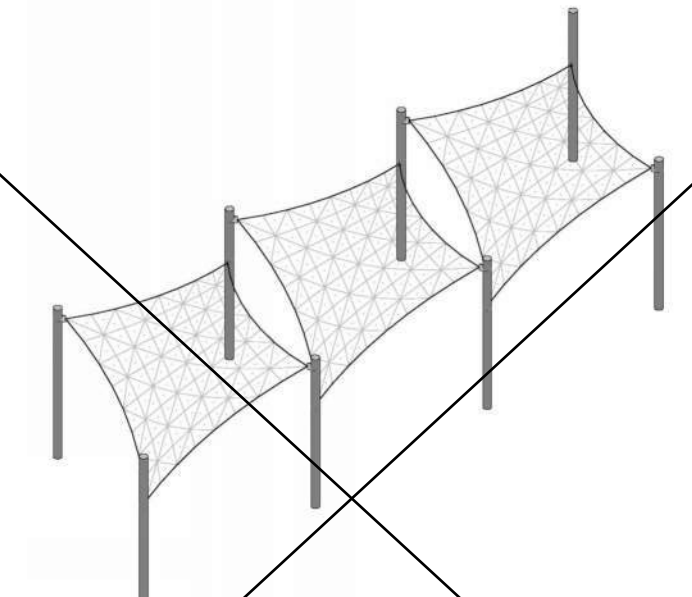
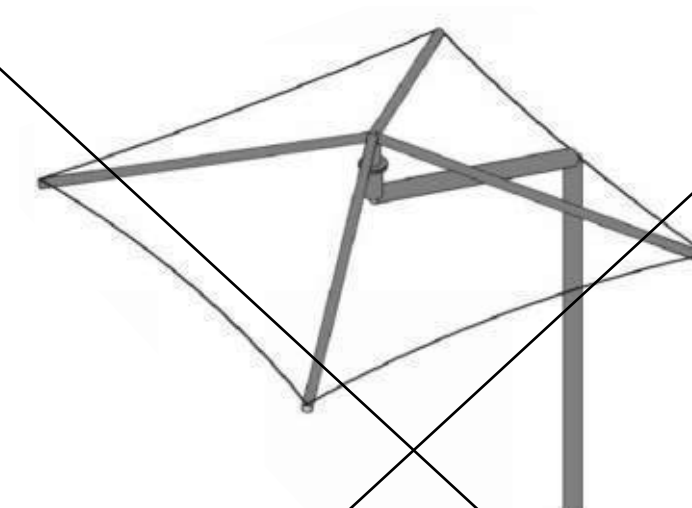
STRUCTURAL ENGINEER:

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



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



																																																								
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REGISTERED PROFESSIONAL ARCHITECT  
DAVID HIGGINS  
No. 3693  
STATE OF CALIFORNIA


10/18/2023

LICENSED ARCHITECT  
C19168  
10-31-25  
RENEWAL DATE  
STATE OF CALIFORNIA

*David Higgins*

IDENTIFICATION STAMP  
DIV. OF THE STATE ARCHITECT  
APP: 03-124446 INC:  
REVIEWED FOR  
SS ☒ FLS ☒ ACS ☒  
DATE: 07/31/2024

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



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

CERTIFICATIONS:  
IAS CERTIFICATION No: FA-428  
CLARK COUNTY MANUFACTURER  
CERTIFICATION NUMBER (NEVADA): 355

CUSTOMER:  
Kern High School District

PROJECT NAME:  
Career & Technical  
Education Center

LOCATION:  
7301 Old River Road  
Bakersfield, CA 93311

MODEL NUMBER:

APPROVED  
DIV. OF THE STATE ARCHITECT  
APP: 04-121917 PC  
REVIEWED FOR  
SS ☒ FLS ☒ ACS ☒ CG ☐  
DATE: 10/30/2023

STRUCTURE TYPE:

SCALE : VARIES

DRAWING SIZE:  
D

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

Eng. By : DWH 2/14/23

Design By : DWH 2/14/23

Approved By : DWH 2/14/23

DRAWING DESCRIPTION:

DWG. UNIT SELECTION

SHEET T-2.0

REV.



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

Application Number:  
04-121917  
DSA File Number:

School Name:  
PC FABRIC SHADE STRUCTURES  
Increment Number:

School District:  
USA SHADE AND FABRIC STRUCTURES  
Date Created:  
2023-02-15 15:23:09

2022 CBC

IMPORTANT: This form is only a summary list of structural tests and some of the special inspections required for the project. Generally, the structural tests and special inspections noted on this form are those that will be performed by the Geotechnical Engineer of Record, Laboratory of Record, or Special Inspector. The actual complete test and inspection program must be performed as detailed on the DSA approved documents. The appendix at the bottom of this form identifies work NOT subject to DSA requirements for special inspection or structural testing. The project inspector is responsible for providing inspection of all 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

Periodic

Test

Geotechnical Engineer

Laboratory of Record

Project Inspector

Special Inspector

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

DEPARTMENT OF GENERAL SERVICES  
Page 1 of 17

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:  
04-121917  
DSA File Number:

School Name:  
PC FABRIC SHADE STRUCTURES  
Increment Number:

School District:  
USA SHADE AND FABRIC STRUCTURES  
Date Created:  
2023-02-15 15:23:09

C1. CAST-IN-PLACE CONCRETE

Test or Special Inspection

Type

Performed By

Code References and Notes

1. Verify use of required design mix.

Periodic

SI

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

2. 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.)

3. 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.

4. Test concrete (f'c).

Test

LOR

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

5. Batch plant inspection: Eliminated

See Notes

SI

Default of "Continuous" per 1705A.3.3 (f) 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.)

6. Welding of reinforcing steel.

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

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

Test or Special Inspection

Type

Performed By

Code References and Notes

1. Sample and test prestressing tendons and anchorages.

Test

LOR

1705A.3.4, 1910A.3

2. Inspect placement of prestressing tendons.

Periodic

SI

1705A.3.4, Table 1705A.3 Items 1 & 9.

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

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

Table 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:  
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S/A3. WELDING:

Test or Special Inspection

Type

Performed By

Code References and Notes

1. 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 and the WPS.

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

Periodic

SI

DSA IR 17-3.

3. Verify WPS, welder qualifications and equipment.

Periodic

SI

DSA IR 17-3.

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

Test or Special Inspection

Type

Performed By

Code References and Notes

1. 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. 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.

3. 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.

4. 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.

5. 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.

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Table 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

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Test or Special Inspection

Type

Performed By

Code References and Notes

1. Storage rack anchorage installation.

Periodic

SI

ANSI/MH16.1 Section 7.3.2; Table 1705A.3.1

2. Completed storage rack system to indicate compliance with the approved construction documents.

Periodic

SI\*

Table 1705A.13.7: \* May be performed by the project inspector when specifically approved by DSA.

S/A11. Other Steel

Test or Special Inspection

Type

Performed By

Code References and Notes

1.

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

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

S1. GENERAL:

Test or Special Inspection

Type

Performed By

Code References and Notes

1. 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.

See Notes

PI

Refer to specific items identified in the Appendix listing exemptions for limitations. Placement of controlled fill exceeding 12' depth under foundations is not permitted without a geotechnical report.

S2. SOIL COMPACTION AND FILL:

Test or Special Inspection

Type

Performed By

Code References and Notes

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

Continuous

LOR\*

\* Under the supervision of a geotechnical engineer or LOR's engineering manager. Refer to specific items identified in the Appendix listing exemptions for limitations.

2. Compaction testing

Test

LOR\*

\* Under the supervision of a geotechnical engineer or LOR's engineering manager. Refer to specific items identified in the Appendix listing exemptions for limitations.

S3. DRIVEN DEEP FOUNDATIONS (PILES):

Test or Special Inspection

Type

Performed By

Code References and Notes

1. Verify pile materials, sizes and lengths comply with the requirements.

Continuous

GE\*

\* By geotechnical engineer or his or her qualified representative.

2. Determine capacities of test piles and conduct additional load tests as required.

Test

LOR\*

\* Under the supervision of the geotechnical engineer.

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

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

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Test or Special Inspection

Type

Performed By

Code References and Notes

1. Verify use of concrete strength prior to stressing of post-tensioning tendons.

Periodic

SI

Table 1705A.3 Item 13. Special inspector to verify specified concrete strength test prior to stressing.

2. Inspect application of post-tensioning or prestressing forces and grouting of bonded prestressing tendons.

Continuous

SI

1705A.3.4, Table 1705A.3 Item 9; ACI 318-14 Section 26.13

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

Test or Special Inspection

Type

Performed By

Code References and Notes

1. Inspect fabrication of precast concrete members.

Continuous

SI

ACI 318-19 Section 26.13.

2. Inspect erection of precast concrete members.

Periodic

SI\*

Table 1705A.3 Item 10: \* May be performed by PI when specifically approved by DSA.

3. For precast concrete diaphragm connections or reinforcement at joints classified as moderate or high deformability elements (MDE or HDE) in structures assigned to Seismic Design Category D, E or F, inspect such connections and reinforcement in the field for:  
1. Installation of the embedded parts  
2. Completion of the continuity of reinforcement across joints.  
3. Completion of connections in the field.

Continuous

SI

Table 1705A.3: ACI 318-19 Section 26.13.1.3; ACI 550.5

4. Inspect installation tolerances of precast concrete diaphragm connections for compliance with ACI 550.5.

Periodic

SI

Table 1705A.3: ACI 318-19 Section 26.13.1.3; ACI 550.5

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Table 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

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Test or Special Inspection

Type

Performed By

Code References and Notes

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

Test or Special Inspection

Type

Performed By

Code References and Notes

1. 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.4, 4; AISC 360-16 (and AISC 341-16 as applicable); DSA IR 17-3.

2. Inspect single-pass fillet welds < 5/16".

Periodic

SI

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

3. Inspect end-welded studs (ASTM A108) installation (including bend test).

Periodic

SI

2219A.2.1; AISC 360-16 (and AISC 341-16 as applicable); AWS D1.1; DSA IR 17-3.

4. Inspect floor and roof deck welds.

Periodic

SI

1705A.2.2, Table 1705A.2.1 Item 5a.6; AISC 360-16 (and AISC 341-16 as applicable); AWS D1.3; DSA IR 17-3.

5. Inspect welding of structural cold-formed steel.

Periodic

SI\*

1705A.2.5; AWS D1.3; DSA IR 17-3. The quality control provisions of AISI S240-20 Chapter D shall also apply. \* May be performed by the project inspector when specifically approved by DSA.

6. 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. \* May be performed by the project inspector when specifically approved by DSA.

7. Verification of reinforcing steel weldability.

Periodic

SI

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

8. 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.

#### GENERAL DSA-103 NOTES:

- THE SAMPLE DSA-103 FORM PROVIDED ON THIS SHEET IS FOR ILLUSTRATIVE PURPOSES ONLY TO ASSIST IN THE COMPLETION OF SPECIFIC DSA-103 FORMS FOR FUTURE PROJECTS.
- A CURRENT DSA-103 FORM IS TO BE COMPLETED FOR EACH APPLICATION THAT THIS P.C. DOCUMENT IS BEING INCORPORATED INTO AND ALL SAMPLE DSA-103 SHEETS ARE TO BE CROSSED OUT ON THIS SHEET

#### ADDITIONAL TESTING AND INSPECTION NOTES:

- THE PROJECT INSPECTOR AND TESTING AGENCY SHALL BE EMPLOYED BY THE SCHOOL DISTRICT AND APPROVED BY DSA AND THE ARCHITECT OF RECORD.
- 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 4-542, PART 1, TITLE 24, CCR.
- THE SITE PROJECT INSPECTOR SHALL BE CLASS 2.
- A DSA ACCEPTED TESTING LABORATORY DIRECTLY EMPLOYED BY THE DISTRICT (OWNER) SHALL CONDUCT ALL THE REQUIRED TEST AND INSPECTIONS FOR THE PROJECT.
- THE COSTS OF THE PROJECT INSPECTOR AND TESTING AGENCY SHALL BE BORN BY THE SCHOOL DISTRICT. COPIES OF THE VERIFIED REPORTS SHALL BE SENT TO DSA, THE ARCHITECT, THE SCHOOL DISTRICT, THE CONTRACTOR, AND THE PROJECT INSPECTOR.
- THE IN-PLANT INSPECTOR SHALL BE A WELDING SPECIAL INSPECTOR FOR MATERIAL VERIFICATION AND WELDING.
- PER 2022 CBC, SECTION 1705A.3.3, BATCH PLANT INSPECTION MAY BE WAIVED WHEN THE FOLLOWING REQUIREMENTS ARE MET:
  - A LICENSED WELDMASTER SHALL POSITIVELY IDENTIFY QUANTITY OF MATERIALS AND CERTIFY EACH LOAD BY A BATCH TICKET.
  - BATCH TICKETS, INCLUDING MATERIAL QUANTITIES AND WEIGHTS SHALL ACCOMPANY THE LOAD. SHALL BE TRANSMITTED TO THE INSPECTOR OF RECORD BY THE TRUCK DRIVER WITH LOAD IDENTIFIED THEREON. THE LOAD SHALL NOT BE PLACED WITHOUT A BATCH TICKET IDENTIFYING THE MIX. THE INSPECTOR OF RECORD SHALL KEEP A DAILY RECORD OF PLACEMENTS, IDENTIFYING EACH TRUCK, ITS LOAD, TIME OF RECEIPT AT THE JOBSITE, AND APPROXIMATE LOCATION OF DEPOSIT IN THE STRUCTURE AND SHALL MAINTAIN A COPY OF THE DAILY RECORD AS REQUIRED BY THE ENFORCING AGENCY.

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

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Test or Special Inspection

Type

Performed By

Code References and Notes

1. Inspect driving operations and maintain complete and accurate records for each pile.

Continuous

GE\*

\* By geotechnical engineer or his or her qualified representative.

2. Verify locations of piles and their plumbness, confirm type and size of hammer, record number of blows per foot of penetration, determine required penetrations to achieve design capacity, record tip and blow elevations and record any pile damage.

Continuous

GE\*

\* By geotechnical engineer or his or her qualified representative.

3. Steel piles.

Provide tests and inspections per STEEL section below.

4. Concrete piles and concrete filled piles.

Provide tests and inspections per CONCRETE section below.

5. For specialty piles, perform additional inspections as determined by the registered design professional in responsible charge.

-

-

\* As defined on drawings or specifications.

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

Test or Special Inspection

Type

Performed By

Code References and Notes

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

Continuous

PI

Continuous inspection to be provided by project inspector. Refer to specific items identified in the Appendix listing exemptions for limitations.

2. Verify pier locations, diameters, plumbness and lengths. Record concrete or grout volumes.

Continuous

PI

Continuous inspection to be provided by project inspector. Refer to specific items identified in the Appendix listing exemptions for limitations.

3. Concrete piers.

Provide tests and inspections per CONCRETE section below.

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

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C4. SHOTCRETE (IN ADDITION TO SECTION C1):

Test or Special Inspection

Type

Performed By

Code References and Notes

1. Inspect shotcrete placement for proper application techniques.

Continuous

SI

1705A.3.9, Table 1705A.3 Item 7, 1908A.1, 1908A.2, 1908A.3. See ACI 506.2-13 Section 3.4, ACI 506B-16.

2. Sample and test shotcrete (f'c).

Test

LOR

1908A.2, 1705A.3.4

C5. POST-INSTALLED ANCHORS:

Test or Special Inspection

Type

Performed By

Code References and Notes

1. Inspect installation of post-installed anchors.

See Notes

SI\*

1617A.1.19, Table 1705A.3 Item 4a (Continuous) & 4b (Periodic), 1705A.3.8 (See Appendix (end of this form) for exemptions). ACI 318-14 Sections 17.8 & 26.13. \* May be performed by the project inspector when specifically approved by DSA.

2. Test post-installed anchors.

Test

LOR

1910A.5. (See Appendix (end of this form) for exemptions.)

C6. OTHER CONCRETE:

Test or Special Inspection

Type

Performed By

Code References and Notes

1.

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Table 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

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Test or Special Inspection

Type

Performed By

Code References and Notes

S/A6. NONDESTRUCTIVE TESTING:

Test or Special Inspection

Type

Performed By

Code References and Notes

1. Ultrasonic.

Test

LOR

1705A.2.1, 1705A.2.5; AISC 341-16 J6.2, AISC 360-16 N5.5; AWS D1.1, AWS D1.8; DSA IR 17-2.

2. Magnetic Particle

Test

LOR

1705A.2.1, 1705A.2.5; AISC 341-16 J6.2, AISC 360-16 N5.5; AWS D1.1, AWS D1.8; DSA IR 17-2.

3.

Test

LOR

S/A7. STEEL JOISTS AND TRUSSES:

Test or Special Inspection

Type

Performed By

Code References and Notes

1. Verify size, type and grade for all chord and web members as well as connectors and weld filler material; verify joint profile, dimensions and camber (if applicable); verify all weld locations, lengths and profiles; mark or tag each joint.

Continuous

SI

1705A.2.3, Table 1705A.2.3; AWS D1.1; DSA IR 22.3 for steel joists only; 1705A.2.4; AWS D1.3 for cold-formed steel trusses.

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

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Test or Special Inspection

Type

Performed By

Code References and Notes

S5. RETAINING WALLS:

Test or Special Inspection

Type

Performed By

Code References and Notes

1. Placement, compaction and inspection of backfill.

Continuous

GE\*

\* By geotechnical engineer or his or her qualified representative. (See Section S2 above).

2. Placement of soil reinforcement and/or drainage devices.

Continuous

GE\*

\* By geotechnical engineer or his or her qualified representative.

3. Segmental retaining walls. Inspect placement of units, dowels, connectors, etc.

Continuous

GE\*

\* By geotechnical engineer or his or her qualified representative.

4. Concrete retaining walls.

Provide tests and inspections per CONCRETE section below.

5. Masonry retaining walls.

Provide tests and inspections per MASONRY section below.

S6. OTHER SOILS:

Test or Special Inspection

Type

Performed By

Code References and Notes

1. Soil Improvements

Test

GE\*

Submit a comprehensive report documenting final soil improvements constructed, construction observation and the results of the confirmation testing and analysis to GCS (California Geological Survey) for final acceptance.  
\* By geotechnical engineer or his or her qualified representative.

2. Inspection of Soil Improvements

Continuous

GE\*

\* By geotechnical engineer or his or her qualified representative.

3.

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Table 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

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

Test or Special Inspection

Type

Performed By

Code References and Notes

1. 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.

2. Test unidentified materials.

Test

LOR

2202A.1.

3. Examine seam welds of HSS shapes.

Periodic

SI

DSA IR 17-3.

4. 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)

5. Buckling restrained braces.

Test

LOR

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

S/A2. HIGH-STRENGTH BOLTS: SEE STRUCTURAL NOTES ON SERIES 1000 SHEETS FOR JOINT TYPE

Test or Special Inspection

Type

Performed By

Code References and Notes

1. Verify identification markings and manufacturer's certificates of compliance conform to ASTM standards specified in the DSA-approved documents.

Periodic

SI

Table 1705A.2.1 Items 1a & 1b, 2202A.1; AISC 360-16 Section A3.3, J3.1, and N5.2; RCSC 2014 Section 1.5 & 2.1; DSA IR 17-8 & DSA IR 17-9.

2. Test high-strength bolts, nuts and washers.

Test

LOR

Table 1705A.2.1 Item 1c, 2213A.1; RCSC 2014 Section 7.2; DSA IR 17-8.

3. Bearing type ("snug tight") connections.

Periodic

SI

Table 1705A.2.1 Item 2b, 1705A.2.6, 2204A.2; AISC 360-16 J3.1, J3.2, M2.5 & N5.6; RCSC 2014 Section 9.1; DSA IR 17-9.

4. Pretensioned and slip-critical connections.

-

SI

Table 1705A.2.1 Items 2b & 2c, 1705A.2.6, 2204A.2; AISC 360-16 J3.1, J3.2, M2.5 & N5.6; RCSC 2014 Sections 9.2 & 9.3; DSA IR 17-9. "Continuous" or "Periodic" depends on the tightening method used.

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Table 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

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Test or Special Inspection

Type

Performed By

Code References and Notes

S/A8. SPRAYED FIRE-RESISTANT MATERIALS:

Test or Special Inspection

Type

Performed By

Code References and Notes

1. Examine structural steel surface conditions. Inspect application, take samples, measure thickness and verify compliance of all aspects of application with DSA-approved documents.

Periodic

SI

1705A.15, 1705A.1, 1705A.2, 1705A.3, 1705A.4.

2. Test density.

Test

LOR

1705A.15.1, 1705A.15.5, ASTM E736

3. Bond strength adhesion/cohesion.

Test

LOR

1705A.15.1, 1705A.15.4, ASTM E605

S/A9. ANCHOR BOLTS AND ANCHOR RODS:

Test or Special Inspection

Type

Performed By

Code References and Notes

1. 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.

2. Threaded rod not used



GENERAL NOTES

1- SPECIAL INSPECTION REQUIREMENTS SHALL FOLLOW THE ATTACHED SAMPLE TEST AND INSPECTION LIST (T & I LIST) APPROVED BY DSA. THE SHOP WELDING INSPECTION SHALL INCLUDE WELDING OF ALL STEEL MEMBERS AND IDENTIFICATION OF STEEL THROUGH MILL CERTIFICATE OR MATERIAL TESTING. UNCERTIFIED STEEL SHALL BE TESTED TO THE REQUIREMENTS OF CBC 2022 CHAPTER 17A, THE FIELD SPECIAL INSPECTION SHALL INCLUDE COMPRESSION CYLINDER TESTS FOR THE CONCRETE FOUNDATION.

2- STRUCTURE SHALL BE IN THE LOCATION SHOWN ON THE SITE SPECIFIC DSA APPLICATION DRAWING.

3- FOUNDATION DESIGN BASED ON CBC 2022, TABLE 1806A.2, SOIL CLASS 5 (ALLOWABLE FOUNDATION PRESSURE 1500 PSF)

4- DESIGN PER FOLLOWING CODES: CBC 2022 (CHAPTER 35), ASCE 7-16, AISC 360-16, AISC 341-16, ACI 318-19, ASCE 55-16 & ASCE 19-16

STRUCTURAL STEEL

1- FABRICATION OF THE STEEL STRUCTURES SHALL BE PERFORMED BY SHADE STRUCTURES OR AN AUTHORIZED LICENSEE. MATERIAL TESTING (OR MILL CERTIFICATES) AND INSPECTION OF WELDING SHALL BE CONDUCTED PER CBC 2022 SECTIONS 1704A, 1705A, 1705A.2, AND TABLE 1705A.2.1.

2- ONLY CALIFORNIA LICENSED CONTRACTORS AUTHORIZED BY SHADE STRUCTURES SHALL INSTALL THE SHADE STRUCTURES.

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

4- ALL GALVANIZED STEEL TUBE PRODUCTS MANUFACTURED BY ALLIED TUBE & CONDUIT FOR THIS STRUCTURE SHALL BE, AND CONFORM TO ASTM A500-16 GRADE C, IN ITS ENTIRETY. TYPICAL MECHANICAL PROPERTIES ARE:

5- ALL STRUCTURAL SHAPES SHALL BE COLD FORMED HSS ASTM A500 GRADE C, UNLESS OTHERWISE NOTED. TYPICAL MECHANICAL PROPERTIES ACHIEVED FOR HSS PRODUCTS:

6- ALL PLATES PRODUCTS SHALL COMPLY WITH ASTM A572 GRADE 50.

7- STRUCTURAL STEEL SHALL BE DETAILED, FABRICATED AND ERECTED IN ACCORDANCE WITH A.I.S.C. SPECIFICATIONS.

8- ALL WELDING TO CONFORM WITH AMERICAN WELDING SOCIETY STANDARDS AND SHALL BE INSPECTED BY AN AWS/CWI INSPECTOR. AWS D1.1 FOR HOT ROLLED. AWS D1.3 FOR SHEET/COLD FORMED. AWS D1.8 SEISMIC SUPPLEMENT.

9- ALL FULL PENETRATION WELD SHALL BE CONTINUOUSLY INSPECTED PER AWS D1.1 & D1.8.

10- SHOP CONNECTIONS SHALL BE WELDED UNLESS NOTED OTHERWISE. ALL FILLET WELDS SHALL BE A MINIMUM OF 3/16" E70X5 ELECTRODES UNLESS OTHERWISE NOTED. GMAW IS ACCEPTABLE.

11- ALL STAINLESS STEEL BOLTS SHALL COMPLY WITH ASTM F-593, YIELD STRENGTH= 65 KSI, TENSILE STRENGTH=100 KSI MINIMUM, ALLOY GROUP 2, CONDITION CW1. ALL NUTS SHALL COMPLY WITH ASTM F-594 ALLOY GROUP 2, CONDITION CW1. REFERRING TO RCSC, ASTM F-593 IS NOT CONSIDERED AS HIGH STRENGTH BOLTS. BOLTS, ITEM 11, SHALL BE TIGHTENED TO A SNUG TIGHT CONDITION (ST).

12- ALL HIGH STRENGTH BOLTS SHALL COMPLY WITH ASTM F3125 GRADE A325 N (GALVANIZED). ALL NUTS SHALL COMPLY WITH ASTM A630M, AND WASHERS SHALL COMPLY WITH ASTM F436. HIGH STRENGTH BOLTS, ITEM 15, SHALL BE TIGHTENED TO A SNUG TIGHT CONDITION (ST) WITH DOUBLE NUTS. ALL NUTS SHALL BE LUBRICATED WITH A LUBRICANT CONTAINING A VISIBLE DYE SO A VISUAL CHECK CAN BE MADE FOR THE LUBRICANT AT THE TIME OF THE FIELD INSTALLATION. WASHERS SHALL BE GALVANIZED PER ASTM F2329.

13- ALL STRUCTURAL STEEL (ITEMS FROM NOTE 5) SHALL BE POWDER COATED WITH ONE SHOP COAT (2.5 MILS MIN.) OF ZINC-RICH PRIMER, UNDERCOAT, AND FINISH COAT, OR EQUIVALENT PAINT SYSTEM. THIS COAT IS A WEATHER RESISTANT POWDER COATING BASED ON POLYESTER TGIC (MANUFACTURED BY SHERWIN WILLIAMS, ASKO NOBEL, PPG OR TIGER DRYLAC). TO ACHIEVE OPTIMUM ADHESION, IT IS RECOMMENDED THAT THE PROPER TREATMENT AND DRYING TAKE PLACE BEFORE COATING. POLYESTER POWDER (TGIC) SPECIFICATIONS SHALL BE AS FOLLOWS:

14- ALL STEEL ROUND TUBING (ITEMS FROM NOTE 4) SHALL BE TRIPLE COATED FOR RUST PROTECTION USING THE IN-LINE ELECTROPLATING COAT PROCESS. TUBING SHALL BE INTERNALLY COATED WITH ZINC AND ORGANIC COATINGS TO PREVENT CORROSION AS MANUFACTURED BY ALLIED TUBE & CONDUIT.

15- ALL EXPOSED STEEL FASTENERS SHALL BE STAINLESS STEEL (TYPE 304 MINIMUM), HOT DIP GALVANIZED (ASTM A153, CLASS D MINIMUM OR ASTM F2329) AS APPLICABLE, OR PROTECTED WITH CORROSION PREVENTIVE COATING THAT DEMONSTRATED NO MORE THAN 2% OF RED RUST IN MINIMUM 1,000 HOURS OF EXPOSURE IN SALT SPRAY TEST PER ASTM B117. ZINC-PLATED FASTENERS DO NOT COMPLY WITH THIS REQUIREMENT.

CONCRETE SPECIFICATION

1- CONCRETE SHALL BE SAMPLED AND TESTED PER CBC 2022 SECTION 1903A & SHALL BE INSPECTED PER SECTION 1903A.

2- CONCRETE TO BE F<sub>cr</sub>= 4500 PSI, TYPE V CEMENT PLUS POZZOLAN OR SLAG CEMENT, MAXIMUM WATER/CEMENT RATIO OF 0.45, PER ACI 318-19 CHAPTER 19. (NO ADMIXTURES CONTAINING CALCIUM CHLORIDE WILL BE USED.) REINFORCING STEEL SHALL CONFORM TO ASTM A-615 GRADE 60 AND TO BE F<sub>y</sub>= 60000 PSI, MIN. CR. 60, ALSO COATED ACCORDING TO ASTM A767/ A767M, STANDARD SPECIFICATION FOR ZINC-COATING (GALVANIZED) STEEL BARS FOR CONCRETE REINFORCEMENT.

3- ALL ANCHOR BOLTS SET IN NEW CONCRETE (WHEN APPLICABLE) SHALL COMPLY WITH ASTM F-1554 GRADE 36 (GALVANIZED PER ASTM A153, CLASS D MINIMUM OR ASTM F2329). ANCHOR BOLTS DIAMETER NEEDS TO BE AS FOLLOWS:

4- CERTIFIED MILL TEST REPORTS ARE TO BE PROVIDED FOR EACH SHIPMENT OF REINFORCEMENT.

5- ALL NON-SHRINK GROUT SHALL HAVE A MINIMUM 28 DAYS COMPRESSIVE STRENGTH OF 5000 PSI, AND SHALL COMPLY THE REQUIREMENTS OF ASTM C109, ASTM C939, ASTM C1090, ASTM C1107, WHEN APPLICABLE.

6- CONCRETE EXPOSED TO FREEZING-AND-THAWING CYCLES SHALL BE AIR ENTRAINED PER ACI 318 SECTION 19.3.3.

FABRIC SPECIFICATION

1- FABRIC SHALL BE MANUFACTURED BY MULTIKINT LTD., WHICH MEETS THE SPECIFICATIONS LISTED ON PAGE 2000, AND SHALL BE FABRICATED FROM POLYETHYLENE MATERIALS. MINIMUM SEAM LENGTH 3/4".

2- THE FABRIC SHALL RETAIN 80% OF ITS TENSILE AND TEARING STRENGTH AFTER ULTRAVIOLET EXPOSURE PER ASTM G53 USING A 313 NM LIGHT SOURCE FOR 500 HOURS WHILE MOISTENED FOR 1 HOUR EVERY 12 HOURS.

3- PROVIDE CERTIFICATION BY MANUFACTURER AND STATE FIRE MARSHAL TO SCHOOL'S DISTRICT INSPECTOR OF RECORD AT SITE SPECIFIC INSTALLATION. COPY OF FIRE CERTIFICATION SHALL BE SENT TO DSA.

4- FABRIC SHALL REQUIRE ANNUAL INSPECTION AND MAINTENANCE BY THE DISTRICT. FIRE TEST ON FABRIC: NFPA 701 TEST 2 AND ASTM E 84 EXTENDED 30 MINUTES TEST. FLAME SPREAD INDEX (FSI): 10. SMOKE DEVELOPED INDEX (SDI): 50. FABRIC IS ACCEPTABLE FOR USE IN WILDLIFE URBAN INTERFACE AREA.

5- FABRIC TOP NEEDS TO BE REMOVED IF SNOW EXCEEDING 5 PSF ARE ANTICIPATED. FABRIC TOP NEEDS TO BE REMOVED IF WINDS EXCEEDING 115 MPH ARE ANTICIPATED.

6- A VISUAL INSPECTION LOOKING FOR TEAR AND ABNORMAL WEAR IN FABRIC MATERIAL AND THREAD IS REQUIRED PRIOR TO RE-INSTALLATION. USA SHADE & FABRIC STRUCTURES SHALL BE NOTIFIED IF SIGNIFICANT DAMAGE IS PRESENT BEFORE RE-INSTALLATION.

AIRCRAFT CABLE

1- FOR FABRIC ATTACHMENT USE 3/8" 7x19 GALV. CABLE PER ASTM A1023/A1023M, WITH A BREAKING STRENGTH VALUE OF 14,400 LBS. CABLE SHALL BE TENSIONED TO 300 LBS MINIMUM AND 500 LBS MAXIMUM. THE MAXIMUM CALCULATED CABLE ALLOWABLE CAPACITY IS 8a=4909 LB.

2- CABLES SHALL BE FED THROUGH THE FABRIC SLEEVES AROUND THE PERIMETER OF THE CANOPY AND TENSIONED UNTIL THE FABRIC PANELS (DESIGNED PURPOSELY UNDERSIZED) REACH A TIGHT APPEARANCE. ANY LONG TERM CABLE SAG SHALL BE MINIMIZED DURING THE MAINTENANCE RE-TIGHTENING VISITS AS REQUIRED.

MAXIMUM OCCUPANT LOAD (PER CBC 2022 TABLE 1604A.5)

CBC PC DESIGN NOTES

BUILDING CODE  
FLOOR LIVE LOAD  
ROOF LIVE LOAD

ALLOWABLE SOIL PRESSURE:  
DL + LL (CONC FTG)  
DL + LL + SEISMIC (CONC FTG)  
LATERAL BEARING DESIGN VALUE

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

ROOF SNOW LOAD  
ICE LOAD  
FLOOD HAZARD AREA  
WHEN A SITE SPECIFIC PROJECT IS LOCATED IN A FLOOD ZONE OTHER THAN ZONE X, A LETTER STAMPED AND SIGNED FROM A SOILS ENGINEER IS NEEDED TO VALIDATE THE ALLOWABLE SOIL VALUES SPECIFIED IN THE PC ARE STILL APPLICABLE.

WIND DESIGN DIRECTIONAL PROCEDURE: ASCE 7-16, SECTION 27.3.2  
NOTE: WIND DESIGN IS LIMITED TO UNOBSTRUCTED CLEAR FLOW CONDITION  
-BASIC DESIGN WIND SPEED (3 SEC GUST)  
-ASD WIND LOAD (CBC 2022 SEC. 1603A.1.4)  
-WIND EXPOSURE FACTOR  
-TOPOGRAPHIC FACTOR  
-RISK CATEGORY  
-VELOCITY PRESSURE EXPOSURE COEFFICIENT  
-VELOCITY PRESSURE

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

-SPECTRAL RESPONSE COEFFICIENTS

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

-SEISMIC IMPORTANCE FACTOR  
-DESIGN BASE SHEAR AT BASE  
-SEISMIC RESPONSE COEFFICIENTS  
-RESPONSE MODIFICATION FACTOR  
-ANALYSIS PROCEDURE  
-RISK CATEGORY  
-SEISMIC DESIGN CATEGORY  
-SITE COEFFICIENT CATEGORY  
-REDUNDANCY FACTOR

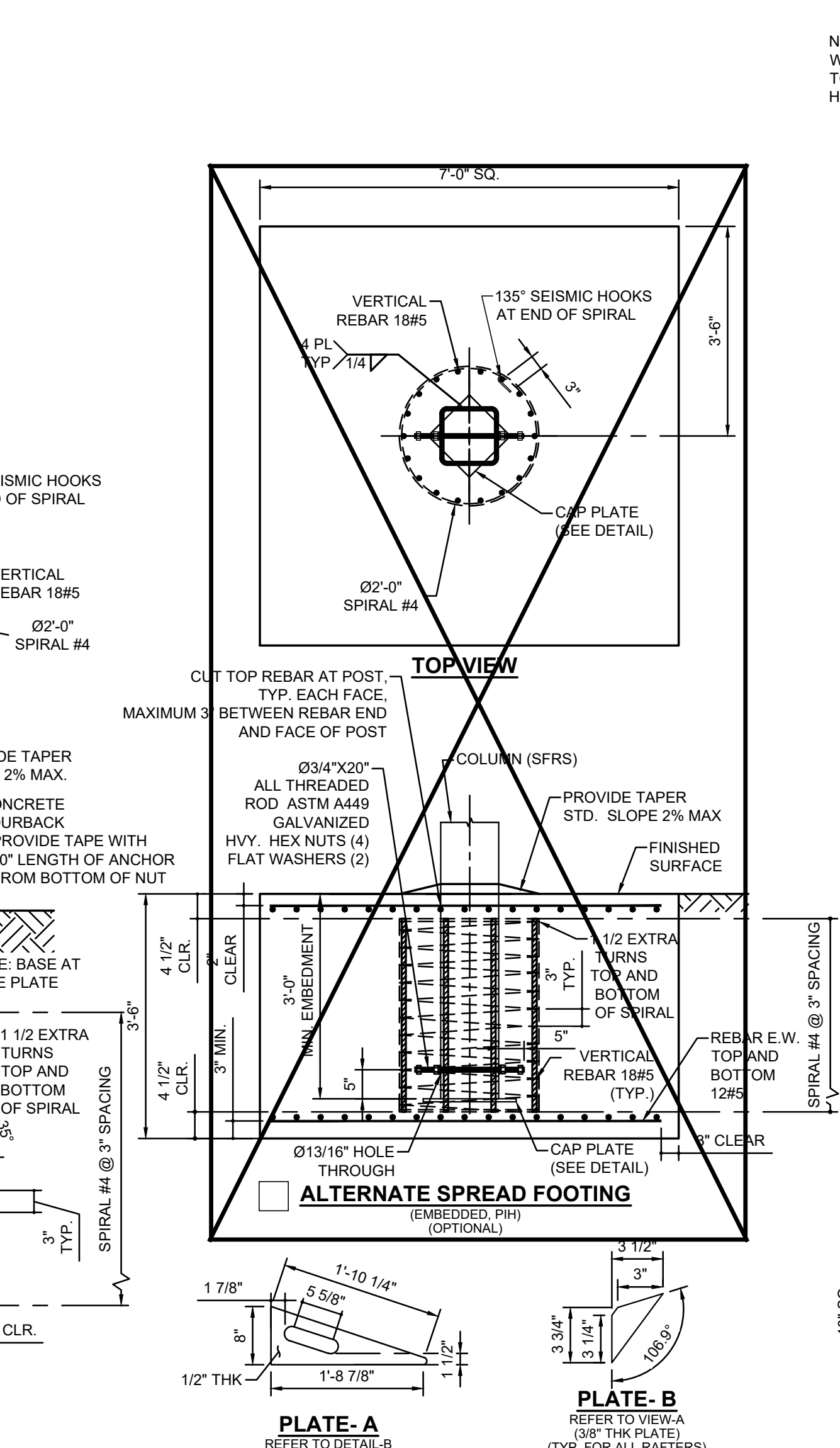
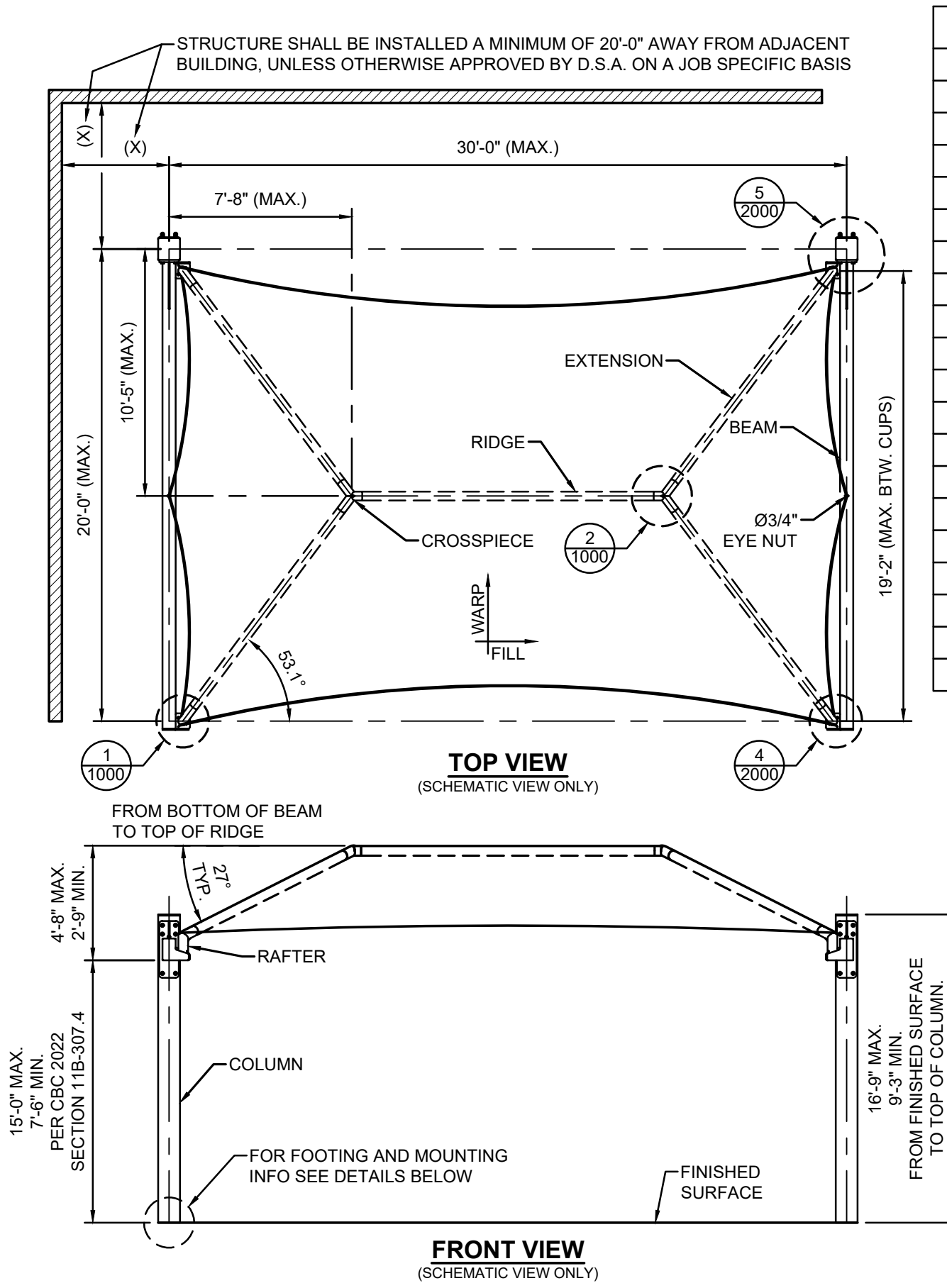
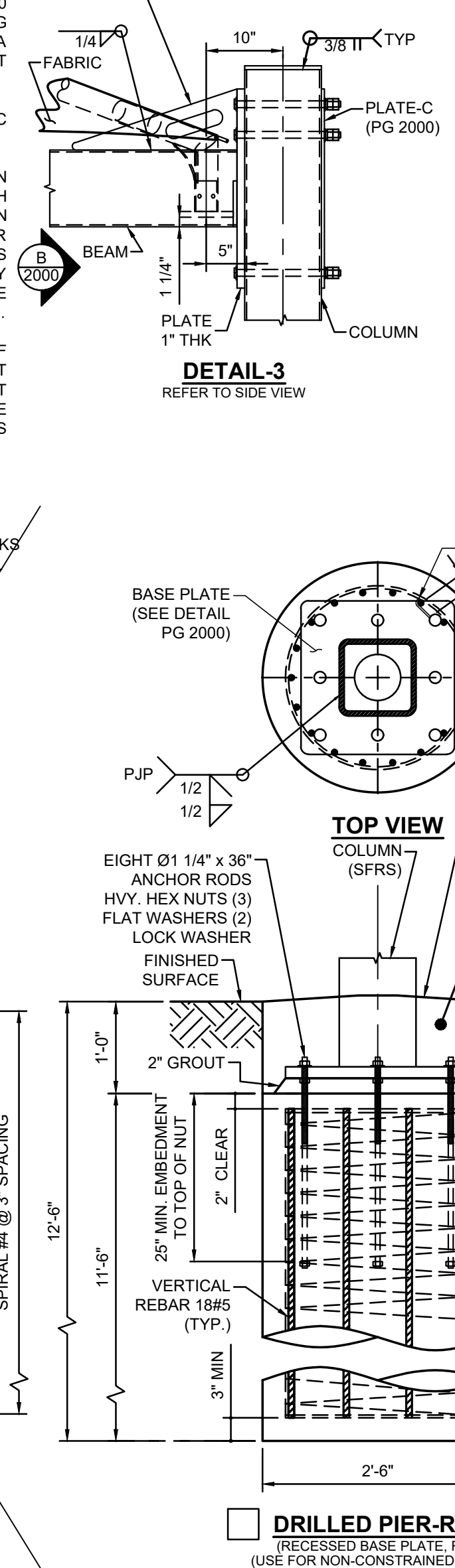
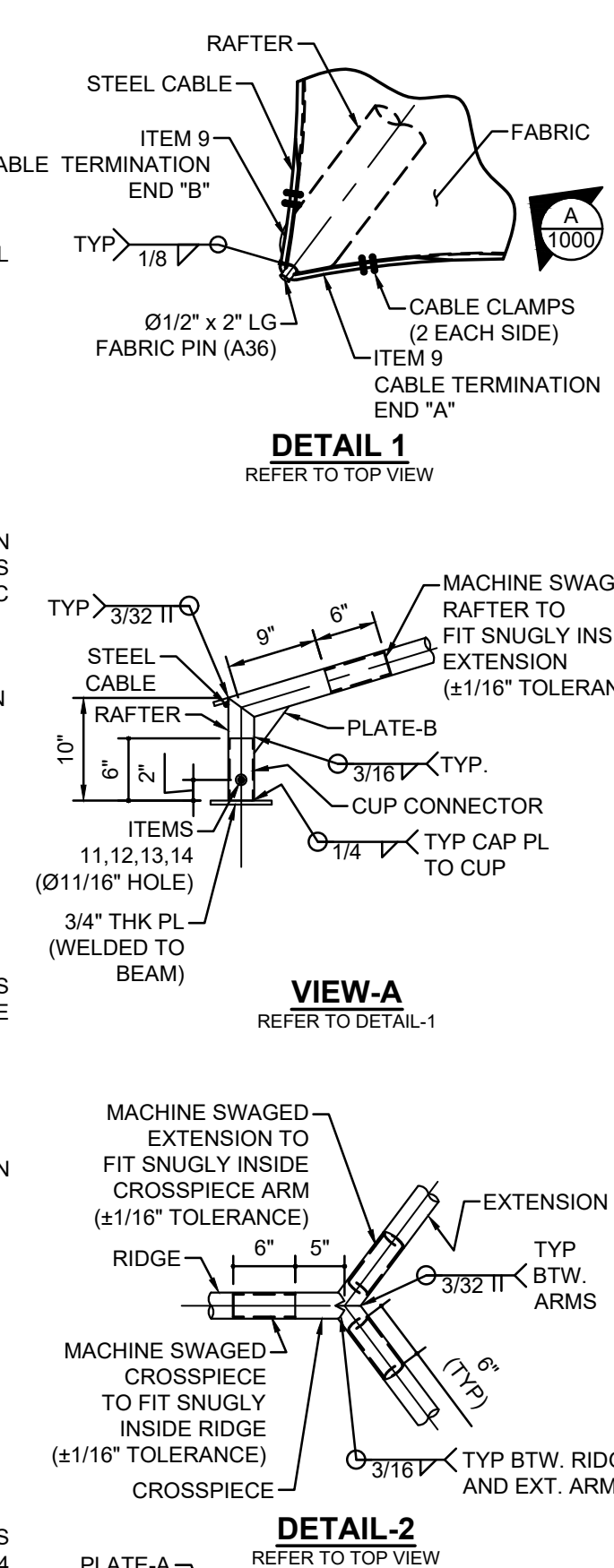
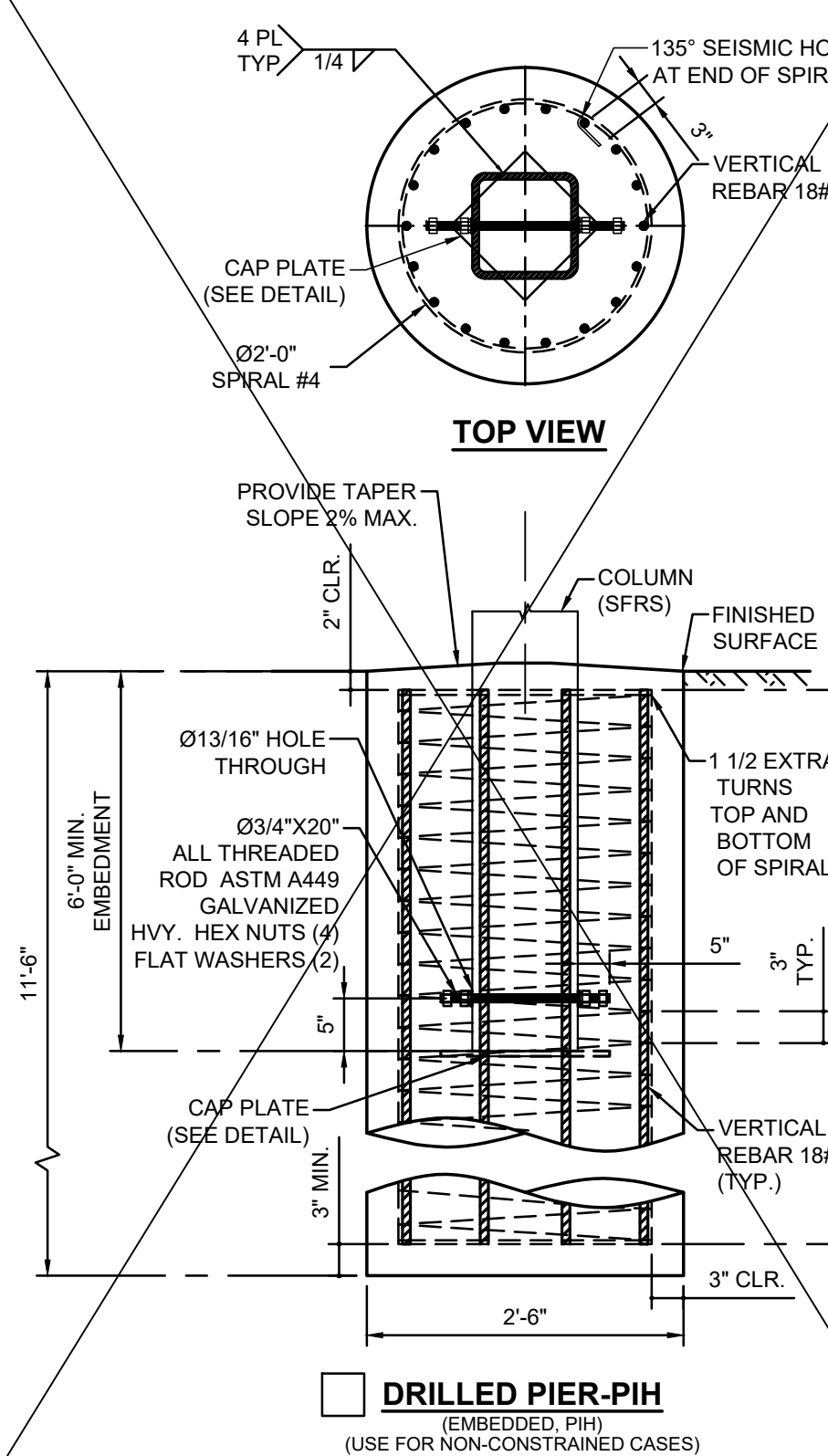
GEOHAZARD REPORT IS NOT REQUIRED FOR OPEN FABRIC STRUCTURES 1,600 SQ FT OR LESS COMPLYING WITH THE REQUIREMENTS OF IR A-4 SECTION 3.1.1. OPEN FABRIC SHADE STRUCTURES GREATER THAN 1,600 SQUARE FEET UP TO A MAXIMUM OF 4,000 SQUARE FEET AND COMPLYING WITH THE REQUIREMENTS NOTED IN IR A-4 SECTION 3.1.1 DO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

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

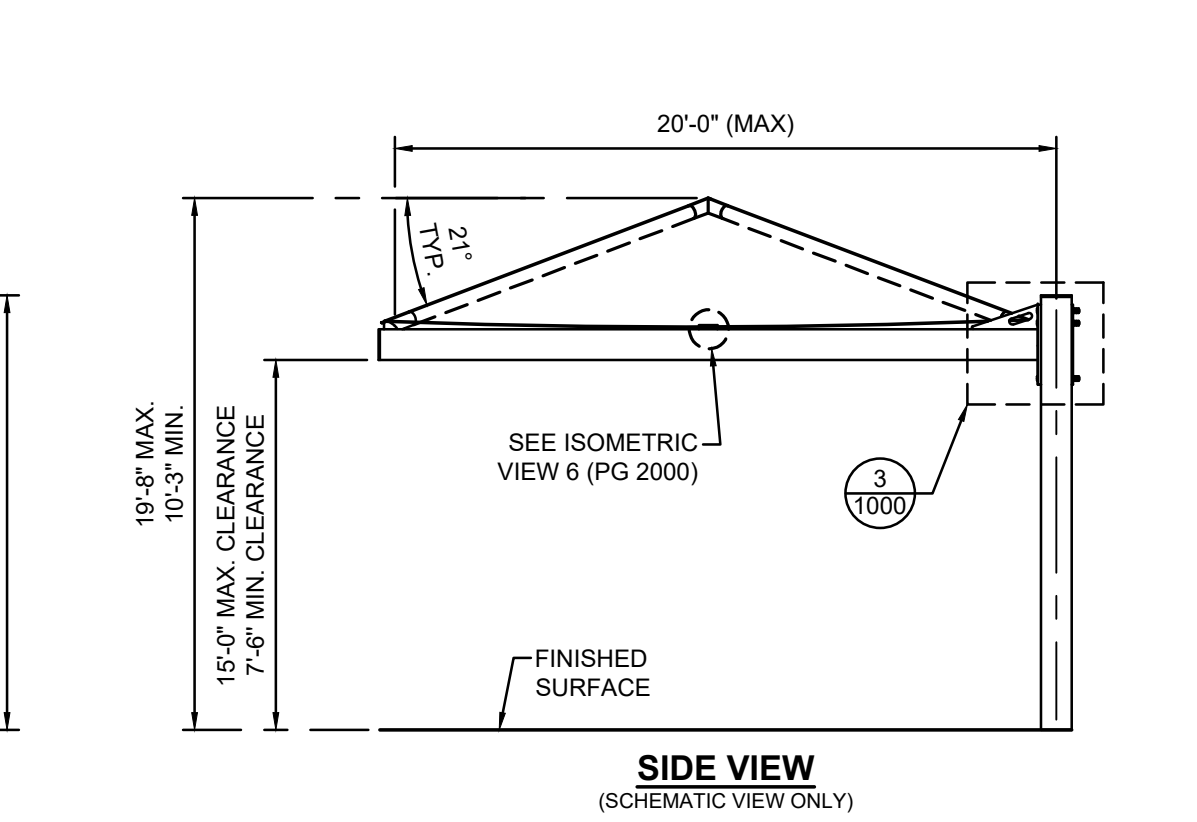
PC OPTIONS SHALL NOT INCLUDE LIQUEFIABLE SOIL (EXCEPTION: OPEN FABRIC SHADE STRUCTURES 1,600 SQUARE FEET OR LESS COMPLYING WITH REQUIREMENTS OF IR A-4 SECTION 3.1.1). IF STRUCTURE IS LOCATED IN AN AREA WITH LIQUEFIABLE SOIL OR SITE CLASS F, OVER-THE-COUNTER SUBMITTAL IS NOT ALLOWED AND REGULAR PROJECT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

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

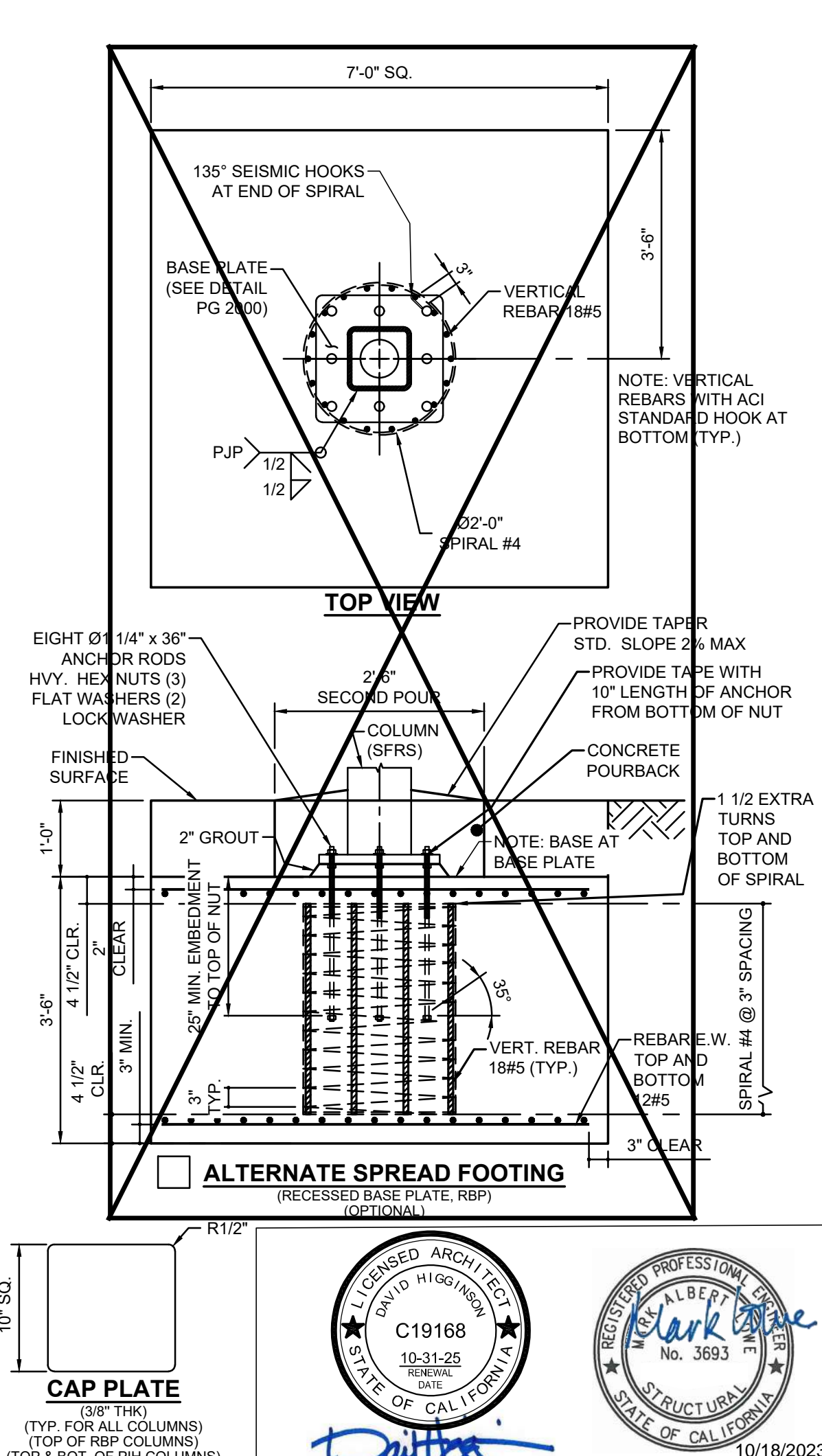
MINIMUM CLASS 2 PROJECT INSPECTOR REQUIRED.



LIST OF MATERIALS			
ITEM	QTY	DESCRIPTION	MATERIAL
1	2	COLUMN	HSS 10 x 10 x 0.625
2A	1	BEAM LEFT	HSS 10 x 6 x 0.375
2B	1	BEAM RIGHT	HSS 10 x 6 x 0.375
3	4	CUP CONNECTOR (6" LG)	HSS 4.0 x 0.25
4	4	RAFTER (GALVANIZED STEEL TUBE)	4.50 GA 7 RD. TUBE (HSS 4.5 x 0.188)
5	4	EXTENSION (GALVANIZED STEEL TUBE)	4.50 GA 7 RD. TUBE (HSS 4.5 x 0.188)
6	2	CROSSPIECE (GALVANIZED STEEL TUBE)	4.50 GA 7 RD. TUBE (HSS 4.5 x 0.188)
7	1	RIDGE	4.50 GA 7 RD. TUBE (HSS 4.5 x 0.188)
8	1	FABRIC TOP	FR COLOURSHADE 190/F5
9	1	Ø3/8" CABLE	GALVANIZED STEEL
10	4	Ø3/8" CABLE CLAMP	GALVANIZED STEEL
11	4	Ø5/8"-11NC x 6" HEX BOLT (ST)	316 SS
12	4	Ø5/8"-11NC HEX NUT	316 SS
13	8	Ø5/8" FLAT WASHER	316 SS
14	4	Ø5/8" SPLIT LOCK WASHER	316 SS
15	12	Ø1"-8NC x 14 1/2" HEX BOLT (ST)	ASTM F3125 GRADE A325, GALVANIZED
16	24	Ø1"-8NC HEX NUT	ASTM A563 GALVANIZED
17	12	Ø1" SPLIT LOCK WASHER	ASTM F436 GALVANIZED
18	24	Ø1" FLAT WASHER	ASTM F436 GALVANIZED



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



IDENTIFICATION STAMP  
DIV. OF THE STATE ARCHITECT  
APP: 03-124446 INC:  
REVIEWED FOR  
SS ☒ FLS ☒ ACS ☒  
DATE: 07/31/2024

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

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

CERTIFICATIONS:

IAS CERTIFICATION NO: FA-428  
CLARK COUNTY MANUFACTURER  
CERTIFICATION NUMBER (NEVADA): 355

CUSTOMER:

Kern High School District

PROJECT NAME:

Career & Technical  
Education Center

LOCATION:

7301 Old River Road  
Bakersfield, CA 93311

MODEL NUMBER:

DSA2022030-22

APPROVED  
DIV. OF THE STATE ARCHITECT  
APP: 04-121917 PC  
REVIEWED FOR  
SS ☒ FLS ☒ ACS ☒ CG ☐  
DATE: 10/30/2023

STRUCTURE TYPE:

FULL CANTILEVER HIP  
SINGLE - DSA

SIZE:

MAXIMUM  
20' x 30' x 15'e MAX.

SCALE : NONE

DRAWING SIZE:

D

PRE-CHECK (PC)  
DOCUMENT

Code : 2022 CBC  
A separate project application for construction is required.

Eng. By : HH 12/01/22  
Design By : OS 12/01/22  
Approved By : MB 12/01/22

DRAWING DESCRIPTION:

PRODUCT INFORMATION

DWG.

DSA2022030-22

SHEET

11.1-1000

REV.

NC





## 190/F5 Fire rated specifications

### Standard range

Revision 0 28-Oct-12

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

#### Notes:

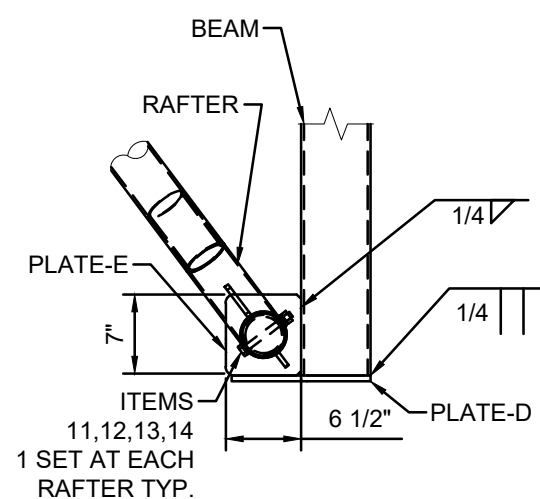
190/F5 conforms to The California State Fire Marshal Title 19 Test for Small scale Fabrics  
Tear tests are done using a 50mm wide strip and a cross head speed of 500mm/min

This report has been compiled using the mean results from all tests conducted on the given sample by our Quality Control Laboratory. The information provided is considered to be a good reflection of the relevant properties of the fabric tested. These results must only be used as an indication of the quality and characteristics of the fabric tested.  
Company cannot be held responsible or liable in any way whatsoever should this information differ to that of a registered testing institution.

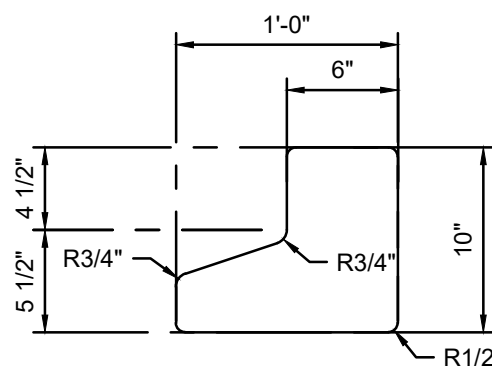
Deon Joubert  
General Manager - Multiknit (Pty) Ltd

Tommy Rogers  
Managing Director - Multiknit (Pty) Ltd

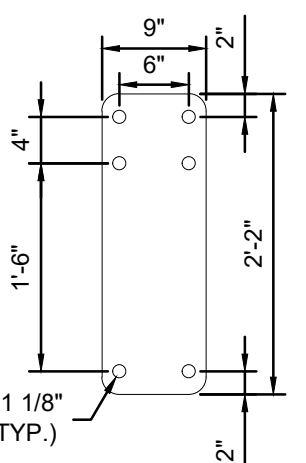
CONVERSION TO IMPERIAL UNITS:  
185 GSM = .0378 psf  
50 KGS = 110 Lb  
72 KGS = 159 Lb  
156 Kpa = 3258 psf



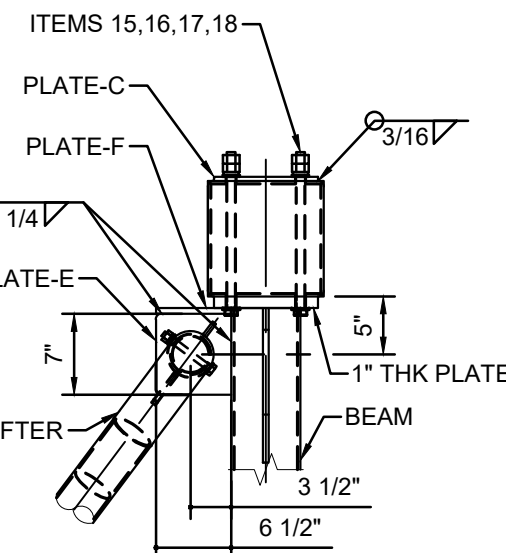
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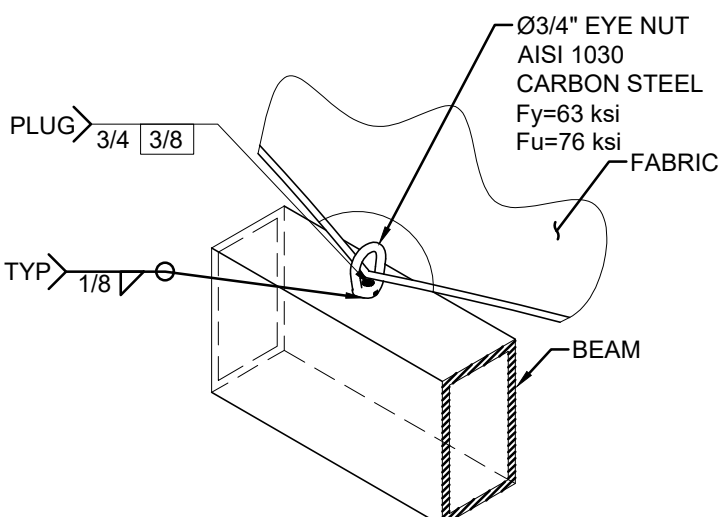
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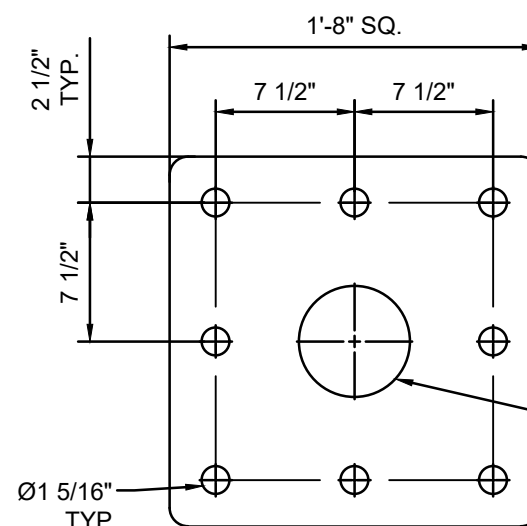
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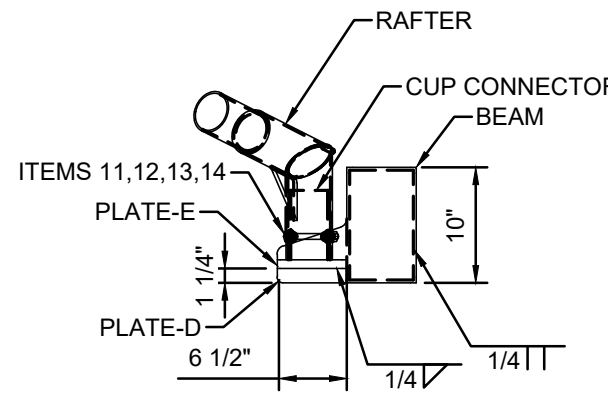
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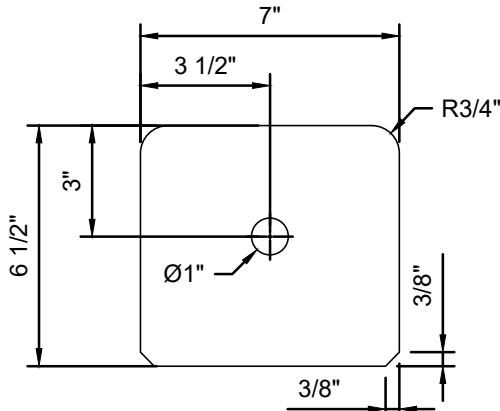
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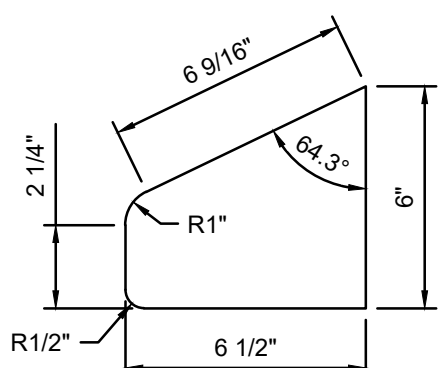
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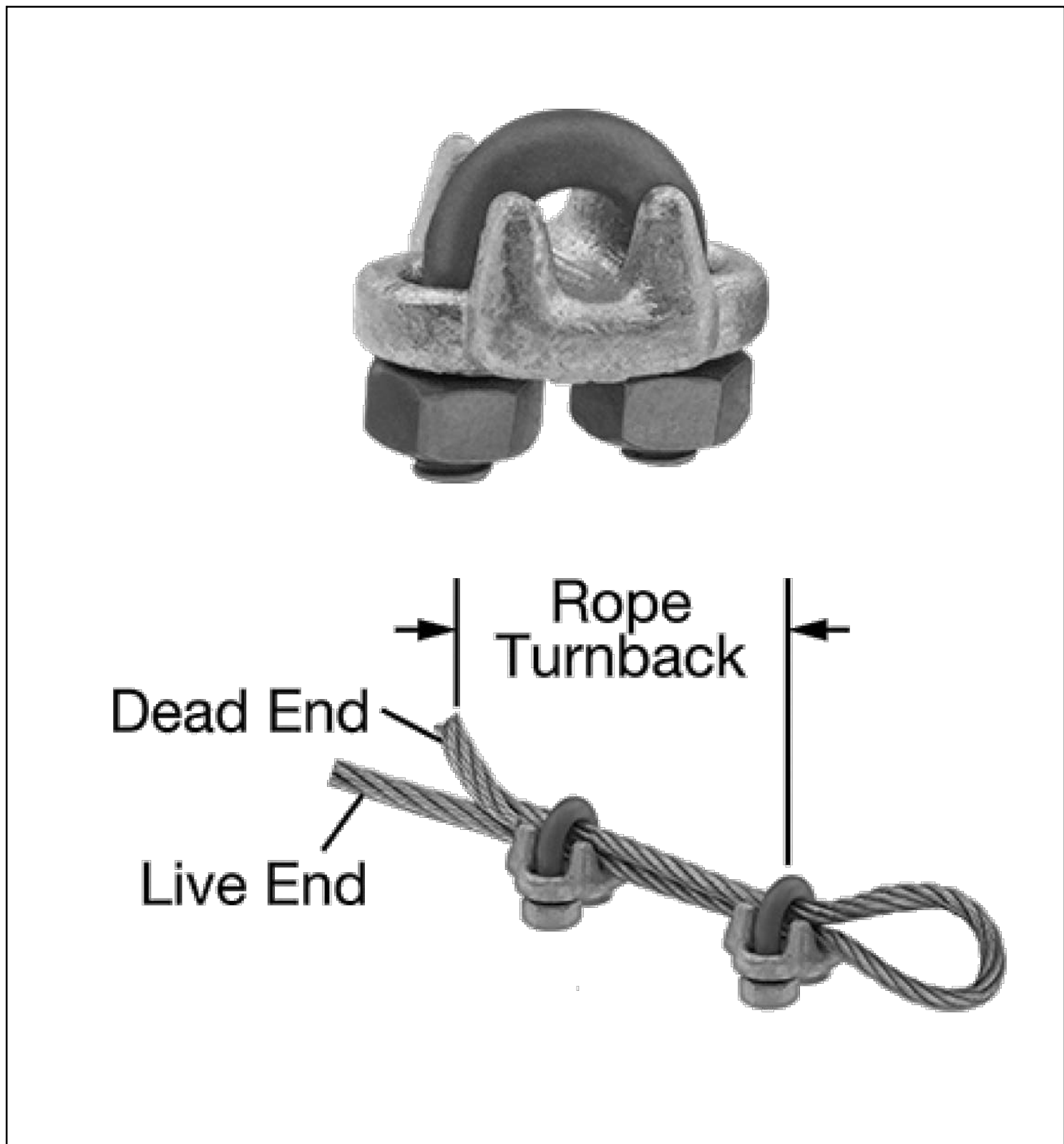
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VIEW C  
REFER TO DETAIL-4

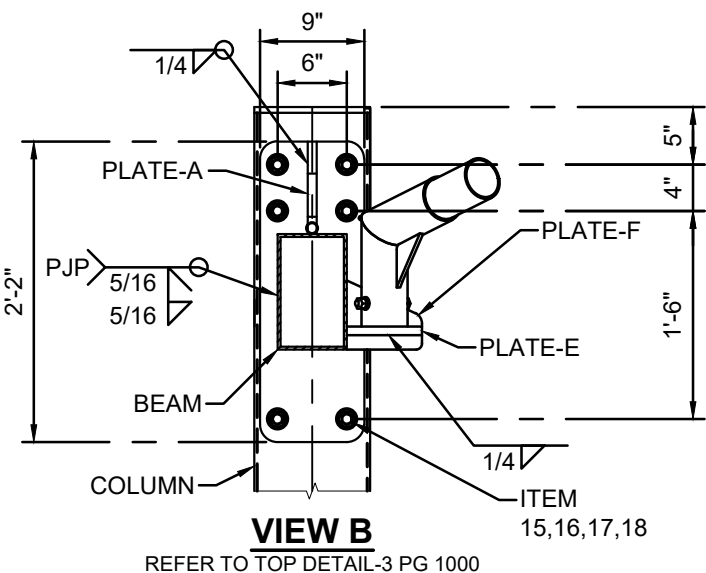


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#### FORGED WIRE ROPE CLAMP

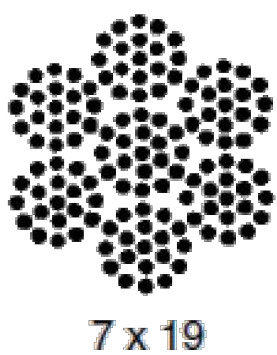
FITTING TYPE ROPE CLAMP  
FABRICATION: FORGED  
MATERIAL: GALVANIZED STEEL  
FOR WIRE ROPE DIAMETER 3/8"  
NUMBER OF CLAMPS REQUIRED: 2  
ROPE TURNBACK: 6 1/2"  
FOR WIRE ROPE CONSTRUCTION 7 x 19  
ATTACHMENT TYPE: LOOP  
CLAMP WIDTH 2", HEIGHT 1 15/16", THICKNESS 1 11/16"  
REQUIRED INSTALLATION TOOL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



## Aircraft Cable

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

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



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



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

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

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

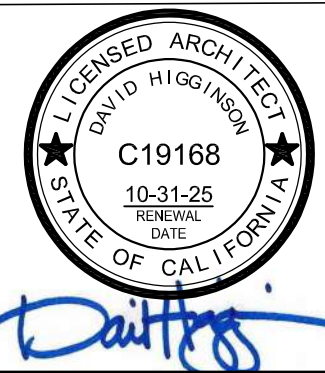
Issued By: Courtney Walker  
Fire Engineering License Manager  
Fire Engineering & Investigations Division

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](http://calfire.gov/motus.org) for more information on Licensing and Permitting with CAL FIRE

Page 1 of 1



IDENTIFICATION STAMP  
DIV. OF THE STATE ARCHITECT  
APP: 03-124446 INC:  
REVIEWED FOR  
SS ☒ FLS ☒ ACS ☒  
DATE: 07/31/2024

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CORPORATE HEADQUARTERS  
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DFW AIRPORT, TX, 75261  
800-966-5005

#### CERTIFICATIONS:

IAS CERTIFICATION No: FA-428  
CLARK COUNTY MANUFACTURER  
CERTIFICATION NUMBER (NEVADA): 355

#### CUSTOMER:

Kern High School District

#### PROJECT NAME:

Career & Technical  
Education Center

#### LOCATION:

7301 Old River Road  
Bakersfield, CA 93311

#### MODEL NUMBER:

DSA2022030-22

APPROVED  
DIV. OF THE STATE ARCHITECT  
APP: 04-121917 PC  
REVIEWED FOR  
SS ☒ FLS ☒ ACS ☒ CG ☐  
DATE: 10/30/2023

#### STRUCTURE TYPE:

FULL CANTILEVER HIP  
SINGLE - DSA

#### SIZE:

MAXIMUM  
20' x 30' x 15'e MAX.

#### SCALE:

NONE

#### DRAWING SIZE:

D

#### PRE-CHECK (PC) DOCUMENT

Code : 2022 CBC

A separate project application for construction is required.

Eng. By :	HH	12/01/22
Design By :	OS	12/01/22
Approved By :	MB	12/01/22

#### DRAWING DESCRIPTION:

#### SPECIFICATIONS

#### DWG.

DSA2022030-22

#### SHEET

11.2-2000

#### REV.

NC