

Measure C Bond Office

To: All Bidders

Subject: DSA Bulletin BU 24-05. This is a contract requirement of the project.

Per new DSA requirements, February 1, 2025, a completed Site Safety Plan (SSP) must be filed concurrently with the DSA 102-1C Construction Start Notice form. The plan must be created by the successfully awarded contractor and submitted to the Architect of Record within 7 days of District Notification of Board award of contract. See attached BU-24-05 for details on the required components of the SSP.

Enclosure: DSA BU 24-05



Pleasant Valley School District

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PVSD prepares 21st century learners who are responsible members of our global society.

BULLETIN: FIRE SAFETY DURING CONSTRUCTION AND DEMOLITION

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

PURPOSE

A DSA bulletin is a notification to its stakeholders regarding any issue intended to be directed to a broad group of external stakeholders as well as DSA staff. This bulletin provides guidance on the development of, and requirement for, a site safety plan (SSP) for demolition projects and or the construction of new buildings, additions or alterations to existing buildings, reconstruction projects, repair, and nonconforming building rehabilitation projects submitted for approval under the 2022 CBC and later editions.

BACKGROUND

California Education Code (EDC) Sections 17280 and 81130 direct the Department of General Services (DGS) to supervise the design and construction any school building to ensure compliance with the standards published in Title 24, California Code of Regulations (CCR).

1. REQUIREMENT

1.1 Section 3302.3 of the California Building Code (CBC) directs compliance with Chapter 33 of the California Fire Code (CFC). Chapter 33 of the CFC outlines requirements for site safety during construction and demolition and directs that the property owner or their authorized agent is responsible for the development and implementation of a written site safety plan establishing a fire prevention program at the project site.

1.2 The school district, in collaboration with the project contractor is responsible for developing an SSP addressing the requirements of CFC Chapter 33. As first responders, DSA recommends that development of the SSP be in consultation and coordination with the local fire authority.

1.3 Beginning February 1, 2025, a completed site safety plan (SSP) is to be submitted to DSA in conjunction with the initial filing of form *DSA 102-IC: Construction Start Notice/Inspection Card Request*, inclusive of completing Section 3 of the form. Failure to include the SSP will result in rejection of the DSA form 102-IC.

1.3.1 Stockpile projects and similar factory-built construction projects do not require a site safety plan be submitted. For projects that include the construction and placement of these factory-built buildings on a site, the site safety plan needs not accompany the DSA 102 IC form when only seeking in-plant inspection cards.

1.4 The SSP is to be a single pdf (separate from the initial DSA 102-IC) with a file name formatted as Origin ID-App #_Site Safety Plan_submission date (i.e., YY-MM-DD).

1.5 DSA will receive and file the fire safety plan in the project file.

2. SITE SAFETY PLAN COMPONENTS

At a minimum, the SSP shall include the following information required in CFC Section 3303.1.1.

1. Name and contact information of site safety director.

BULLETIN: FIRE SAFETY DURING CONSTRUCTION AND DEMOLITION

2. Documentation of training of the site safety director and fire watch personnel.
3. Procedures for reporting emergencies.
4. Fire department vehicle access routes.
5. Locations of fire protection equipment, including portable fire extinguishers, standpipes, fire department connections and fire hydrants.
6. Smoking and cooking policies, designated area to be used where approved, and signage locations in accordance with CFC Section 3305.8.
7. Location and safety considerations for temporary heating equipment.
8. Hot work (welding, roofing, etc.) plan.
9. Plans for control of combustible waste.
10. Locations and methods for storage and use of flammable and combustible liquids and other hazardous materials.
11. Provisions for site security.
12. Changes that affect this plan.
13. Other site- specific information requested by the local fire authority (LFA).

3. PROJECT PLAN SET COORDINATION

Because the SSP is submitted after project approval, project plans shall include the following statement in the Notes block, "All construction and demolition shall be in accordance with Chapter 33 of the CBC and CFC, and the written site safety plan."

REFERENCES:

California Code of Regulations (CCR) Title 24
Part 1: California Administrative Code (CAC), Sections 4-331 and 4-406
Part 2, California Building Code, Chapter 33
Part 9: California Fire Code (CFC), Chapter 33

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PVSD - VALLE LINDO ELEMENTARY SHADE STRUCTURE PLEASANT VALLEY SCHOOL DISTRICT

DSA CERTIFICATION NOTE

THIS PROJECT WILL NOT BE CERTIFIED UNTIL THE PATH OF TRAVEL ASSOCIATED WITH THE A#’S BELOW ARE CERTIFIED:

03-104545
03-120280

DEMOLITION NOTES

1. IDENTIFY ALL DAMAGED ELEMENTS DESIGNATED TO REMAIN OR BE RELOCATED. REQUEST CLARIFICATION FROM THE ARCHITECT BEFORE PROCEEDING WITH DEMOLITION WORK.
2. GENERAL CONTRACTOR IS RESPONSIBLE FOR REVIEWING AND VERIFYING DEMOLITION PLANS IN RELATION TO STRUCTURAL AND CONSTRUCTION DRAWINGS. CONTRACTOR SHALL VERIFY AND COORDINATE THE EXTENT OF DEMOLITION WORK WITH NEW WORK. THE ARCHITECT SHALL BE NOTIFIED OF ANY AND ALL CONFLICTS, DISCREPANCIES OR PROBLEMS.
3. SEE MECHANICAL, PLUMBING, AND ELECTRICAL DEMOLITION PLANS FOR ADDITIONAL WORK.
4. THE CONTRACTOR SHALL VERIFY LOCATION OF ALL UTILITIES PRIOR TO DEMOLITION. THE CONTRACTOR SHALL BEWARE OF POTENTIAL HAZARDS FROM DEMOLITION WORK NEAR UTILITIES. PIPES AND CONDUIT ENCOUNTERED IN DEMOLISHED PARTITIONS AND AREAS WHICH ARE TO REMAIN IN USE SHALL BE RE-ROUTED AND CONCEALED. THOSE WHICH ARE TO BE ABANDONED SHALL BE CAPPED AND CONCEALED IN FLOOR, WALL OR CEILING.
5. BRACE AND SUPPORT EXISTING WORK PRIOR TO AND DURING DEMOLITION AND NEW WORK, AND UNTIL SAFE TO REMOVE SUCH BRACING AND SUPPORTS. THE CONTRACTOR IS RESPONSIBLE FOR ALL STRUCTURAL SHORING DESIGN AND CALCULATIONS.
6. THE CONTRACTOR SHALL PERFORM ALL DEMOLITION WORK REQUIRED INCLUDING THE REMOVAL AND PROPER DISPOSAL OF ALL DEBRIS, BROKEN CONCRETE, ETC., FROM THE SITE. PROPER SHORING SHALL BE EXECUTED FOR THE SAFETY OF THE STRUCTURE AND WORKMEN.
7. THE OWNER SHALL HAVE FIRST RIGHTS OF REFUSAL FOR ALL DEMOLISHED MATERIALS.
8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DAMAGE RESULTING FROM DEMOLITION AT NO ADDITIONAL COST TO THE OWNER. THE GENERAL CONTRACTOR SHALL BE EXTREMELY CAREFUL TO PROTECT AND NOT TO DAMAGE ANY PORTION OF EXISTING INSTALLATION NOT BEING REMOVED. ANY EXISTING FACILITIES INDICATED TO REMAIN WHICH ARE SO DAMAGED SHALL BE REPLACED EQUAL TO ORIGINAL CONDITION AND TO THE SATISFACTION OF THE OWNER.
9. CUT EXISTING PORTIONS OF WALLS, FLOORS, CEILINGS, ETC., WHERE INDICATED AND AS NECESSARY FOR NEW WORK. UNLESS SPECIFICALLY SHOWN ON THESE PLANS, NO STRUCTURAL MEMBER SHALL BE CUT, NEITHER DRILLED NOR NOTCHED, WITHOUT PRIOR WRITTEN AUTHORIZATION FROM THE STRUCTURAL ENGINEER, THE ARCHITECT AND THE AUTHORITY HAVING JURISDICTION.
10. ALL TRADES CONCERNED SHALL COORDINATE EACH OTHER’S WORKS PRIOR TO AND DURING DEMOLITION.
11. ANY PROJECTING OR SURFACE-MOUNTED ITEMS BEING ABANDONED SHALL BE REMOVED, CAPPED AND CONCEALED BEHIND FINISHED SURFACES, UNLESS OTHERWISE NOTED. PATCH AND FINISH TO MATCH EXISTING ADJACENT SURFACE.
12. SURFACES WHERE MATERIAL IS REMOVED TO INSTALL NEW WORK OR TO RECEIVE NEW FINISH SHALL BE REPAIRED AND PATCHED TO MATCH ORIGINAL CONDITIONS. RETEXTURE AND REPAINT WALL OR CEILING WHERE PATCHED TO MATCH EXISTING, WITH NO EVIDENCE THAT PATCH HAS OCCURRED.
13. ALL EXISTING AREAS TO REMAIN OR NEW CONSTRUCTION WORK THAT ARE DAMAGED SHALL BE PATCHED AS REQUIRED TO MATCH EXISTING ADJACENT AREA IN MATERIAL, FINISH AND COLOR, UNLESS OTHERWISE NOTED.
14. ALL EQUIPMENT AND MATERIAL WHICH ARE IN OPERATING CONDITION WHEN REMOVED SHALL BE MAINTAINED AS SUCH AND RETURNED TO THE OWNER OR TO BE REINSTALLED WHERE INDICATED. PROPERLY RECONNECT EQUIPMENT TO RESUME OPERATION.
15. DEMOLISH AND REMOVE WALLS, CEILINGS AND ALL OTHER ITEMS AND EQUIPMENT NOT REQUIRED TO REMAIN OR TO BE REUSED, SUCH AS, BUT NOT LIMITED TO, DOORS, BUCKS, MOLDINGS AND WALL COVERINGS, INCLUDING ITEMS WHICH MAY BE REASONABLY INFERRED AS NECESSARY TO PROPERLY PREPARE FOR THE EXECUTION AND INSTALLATION OF THE NEW WORK. REMOVE EXCESS DOORS, BUCKS, HARDWARE, LIGHTING FIXTURES, ELECTRICAL FITTINGS, CARPETS AND OTHER SALVAGEABLE MATERIAL TO BE STORED, RECYCLED, OR DISPOSED OF AS DIRECTED BY THE OWNER.
16. IN ALL AREAS WHERE DEMOLITION CAUSES UNEVENNESS OR VOIDS IN FLOOR, THE GENERAL CONTRACTOR SHALL PATCH TO LEVEL FLOOR WITH EXISTING SLAB AND/OR REQUIRED SURFACE TO RECEIVE NEW FLOOR FINISH. PATCH AND REPAIR SUBFLOOR AS REQUIRED TO RECEIVE NEW FINISH FLOORING IN A MANNER CONSISTENT WITH HIGH QUALITY WORKMANSHIP.
17. ALL TRENCHING OPERATIONS SHALL BE PERFORMED WITH A SPOTTER. SPOTTER SHALL CONTINUOUSLY OBSERVE EXCAVATIONS TO LOCATE IRRIGATION LINES, CONDUITS AND ANY OTHER UTILITIES OR SUBTERRANEAN EQUIPMENT. ANY ITEMS ENCOUNTERED SHALL BE EXCAVATED BY HAND. IT SHALL BE THE CONTRACTOR’S RESPONSIBILITY TO REPAIR ANY IRRIGATION, UTILITIES, OR OTHER ITEMS DAMAGED AS A RESULT OF EXCAVATION.
18. WORK SHALL COMPLY WITH THE PROVISIONS OF CHAPTER 33 OF THE CBC AND CFC 2019 EDITION “FIRE SAFETY DURING CONSTRUCTION AND DEMOLITION”.

GENERAL NOTES

1. THE PROJECT MANUAL ISSUED AS PART OF THESE CONSTRUCTION DOCUMENTS IS AN INTEGRAL PART OF THE CONTRACT DOCUMENTS.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THAT ALL WORKMANSHIP, MATERIALS AND CONSTRUCTION SHALL BE IN COMPLIANCE WITH THE APPLICABLE CODES AND FEDERAL REQUIREMENTS AND REGULATIONS.
3. THE CONTRACTOR SHALL VISIT THE SITE AND VERIFY ALL DIMENSIONS PRIOR TO SUBMITTING A BID. THE CONTRACTOR IS ALSO RESPONSIBLE FOR OBTAINING ALL REQUIRED PERMITS.
4. THE CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS, GRADES, ELEVATIONS AND DIMENSIONS BEFORE STARTING WORK. THE ARCHITECT SHALL BE NOTIFIED IMMEDIATELY OF ANY DISCREPANCY OR INCONSISTENCY.
5. THE CONTRACTOR SHALL DETERMINE THE LOCATION OF ALL EXISTING UTILITY SERVICES IN THE AREA TO BE EXCAVATED PRIOR TO THE BEGINNING OF EXCAVATION. THE CONTRACTOR SHALL PROTECT ALL UTILITY LINES AND SERVICE LINES TO REMAIN WHICH ARE ENCOUNTERED DURING CONSTRUCTION.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE ENFORCEMENT OF FEDERAL AND STATE OF CALIFORNIA OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION REQUIREMENTS AND REGULATIONS.
7. DO NOT SCALE ANY DRAWINGS IN THIS SET.
8. ALL DIMENSIONS SHALL TAKE PRECEDENCE OVER SCALE SHOWN ON PLANS, SECTIONS AND DETAILS. SPECIFIC NOTES AND DETAILS SHALL TAKE PRECEDENCE OVER GENERAL NOTES AND TYPICAL DETAILS.
9. MATERIAL NOTES AND DRAWINGS SHALL TAKE PRECEDENCE OVER THE SPECIFICATIONS. ISSUE RFI WHEN WHEN THERE IS A DISCREPANCY BETWEEN THE DRAWINGS AND THE SPECIFICATIONS.
10. ALL OMISSIONS AND CONFLICTS BETWEEN THE VARIOUS ELEMENTS OF THE WORKING DRAWINGS AND/OR SPECIFICATIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT IMMEDIATELY BEFORE PROCEEDING WITH ANY WORK SO INVOLVED. NO CHANGES ARE TO BE MADE UNLESS THE ARCHITECT AND THE OWNER ARE NOTIFIED IN WRITING AND APPROVE SUCH A CHANGE ACCORDING TO THE CONTRACT.
11. THE ARCHITECT IS NOT RESPONSIBLE FOR ASBESTOS ABATEMENT.
12. PROVIDE BACKING AT ALL INDICATED LOCATIONS OF FIXTURES, SIGNS, HANDRAILS, ETC.
13. TRADE NAMES AND MANUFACTURERS REFERRED TO ARE FOR QUALITY STANDARDS ONLY. SUBSTITUTIONS WILL BE PERMITTED AS APPROVED BY THE OWNER AND THE ARCHITECT ONLY UPON SUBMITTAL, AND FOR A LIMITED PERIOD.
14. ITEMS SHOWN AS N.I.C. ON PLANS MAY REQUIRE SEPARATE SUBMITTALS, APPROVALS AND PERMITS. INSTALLING CONTRACTOR IS RESPONSIBLE FOR OBTAINING PERMITS FOR SUCH ITEMS.
15. CONTRACTOR SHALL VERIFY MINIMUM 2% SITE DRAINAGE TO DRAINAGE INLETS. EXCEPTION: CROSS SLOPE OF ACCESSIBLE PATH OF TRAVEL SHALL BE 2% MAXIMUM.
16. CONTRACTOR SHALL ENSURE ALL FINISH MATERIALS WILL BE FLUSH WHERE NEW FINISH SURFACE MATERIALS JOIN EXISTING TO PROVIDE SMOOTH TRANSITION.
17. CONTRACTOR ACKNOWLEDGES THAT DRAWINGS ARE DIAGRAMMATIC IN NATURE AND ARE TO REPRESENT THE INTENT OF THE WORK TO BE ACCOMPLISHED. CONTRACTOR IS TO INSTALL MATERIALS AND SYSTEMS WITH EXPERIENCED SKILLED CRAFTSMEN WHO WILL BE RESPONSIBLE FOR THE INTEGRITY OF THEIR RESPECTIVE WORK. NOT EVERY DETAIL OF EACH CONDITION IS DRAWN. CONTRACTOR AND SUB-CONTRACTOR ARE RESPONSIBLE FOR COMPLETE WORKMANLIKE INSTALLATION OF ALL MATERIALS AND SYSTEMS AND WILL NEED TO PROVIDE ADDITIONAL DETAILS FOR INSTALLATION BASED ON GENERAL INFORMATION SHOWN. FOR INSTANCE, NOT EVERY WATERPROOFING OR FLASHING DETAIL FOR EVERY CONDITION IS SHOWN. CONTRACTOR IS TO PROVIDE DETAILS AND INSTALLATION FOR A COMPLETE WATERTIGHT INSTALLATION.
18. 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, CALIFORNIA CODE OF REGULATIONS. SHOULD ANY EXISTING CONDITION NOT COVERED BY THE CONTRACT DOCUMENTS SUCH AS DETERIORATION OR NON-COMPLYING CONSTRUCTION BE DISCOVERED WHERE IN THE FINISHED WORK WILL NOT COMPLY WITH THE T-24, CALIFORNIA CODE OF REGULATIONS, A CONSTRUCTION CHANGE DOCUMENT (CCD), OR A SEPARATE SET OF PLANS AND SPECIFICATIONS, DETAILS 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)
19. CHANGES TO THE APPROVED DRAWINGS AND SPECIFICATIONS SHALL BE MADE BY AN ADDENDUM OR A CONSTRUCTION CHANGE DOCUMENT (CCD) APPROVED BY DSA.
20. GRADING PLANS, DRAINAGE IMPROVEMENTS, ROAD AND ACCESS REQUIREMENTS AND ENVIRONMENTAL HEALTH CONSIDERATIONS SHALL COMPLY WITH ALL LOCAL ORDINANCES.
21. A DSA ACCEPTED TESTING LABORATORY DIRECTLY EMPLOYED BY THE DISTRICT (OWNER) SHALL CONDUCT ALL THE REQUIRED TESTS AND INSPECTIONS FOR THE PROJECT.
22. TITLE 24, PARTS 1-5 AND 9 MUST BE KEPT ON SITE DURING CONSTRUCTION.
23. THE SCOPE OF WORK/PROJECT DESCRIPTION: CLEARLY INDICATED THE SCOPE OF WORK ON THE COVER SHEET OR GENERAL NOTE SHEET OF THE DRAWINGS.
24. WORK SHALL COMPLY WITH THE PROVISIONS OF CHAPTER 33 OF THE CBC AND CFC 2019 EDITION “FIRE SAFETY DURING CONSTRUCTION AND DEMOLITION”.

SITE STRUCTURAL DESIGN DATA

SITE WIND DEISGN DATA (CBC 1603A.1.4)
V = 93 MPH (CBC 1609A.3 FIGURE (1))
V_{ASD} = 78 MPH (CBC 1609A.3.1)
RISK CATEGORY = II
WIND EXPOSURE = C
EARTHQUAKE DESIGN DATA (CBC 1603A.1.5)
RISK CATEGORY = II
SEISMIC IMPORANCE FACTOR I_e = 1.00
S_s = 1.737g
S₁ = 0.643g
SOIL SITE CLASS = D (DEFAULT)
S_{0s} = 1.16
S₀₁ = 0.73 (GEOTECHNICAL REPORT)
PGA_w = 0.84 (GEOTECHNICAL REPORT)
SEISMIC DESIGN CATEGORY = D
GEOTECHNICAL INFORMATION (CBC 1603A.1.6)
GEOTECHNICAL REPORT REQUIRED AND PROVIDED PER DSA IR A-4
SOIL LOAD-BEARING VALUE = 3,000 PSF (GEOTECHNICAL REPORT - IF NO GEOTECHNICAL REPORT THEN CBC TABLE 1806A.2)

APPLICABLE CODES

CONSTRUCTION SHALL COMPLY WITH THE FOLLOWING PARTS OF THE TITLE 24 OF THE CALIFORNIA CODE OF REGULATIONS (CCR), REFER TO SHADE STRUCTURE DRAWINGS FOR OTHER REQUIREMENTS:

2022 CALIFORNIA BUILDING STANDARDS CODE C.C.R. TITLE 24:
2022 CALIFORNIA ADMINISTRATIVE CODE, C.C.R. TITLE 24 PART 1
2022 CALIFORNIA BUILDING CODE (CBC), C.C.R. TITLE 24 PART 2
2022 CALIFORNIA FIRE CODE, C.C.R. TITLE 24 PART 9
2022 CALIFORNIA EXISTING BUILDING CODE, C.C.R. TITLE 24 PART 10
2022 CALIFORNIA REFERENCED STANDARDS CODE, C.C.R. TITLE 24 PART 12

TITLE 19 C.C.R., PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS

APPLICABLE STANDARDS AS REFERENCED BY 2022 CBC CHAPTER 35:
NFPA 72 NATIONAL FIRE ALARM CODE (CALIF. AMENDED),
2022 EDITION (NOTE SEE UL STANDARD 1971 FOR “VISUAL DEVICES”)

ARCHITECT’S STATEMENT OF GENERAL CONFORMANCE

☒ THE DRAWINGS OR SHEETS LISTED ON THE COVER SHEET OR INDEX SHEET

☐ THIS DRAWING, PAGE OR SPECIFICATION/CALCULATIONS

HAVE BEEN PREPARED BY OTHER DESIGN PROFESSIONALS OR CONSULTANTS WHO ARE LICENSED AND/OR AUTHORIZED TO PREPARE SUCH DRAWINGS IN THE STATE. IT HAS BEEN EXAMINED BY ME FOR:

1. DESIGN INTENT AND APPEARS TO MEET THE APPROPRIATE REQUIREMENTS OF TITLE 24, CALIFORNIA CODE OR REGULATIONS AND THE PROJECT SPECIFICATIONS PREPARED BY ME, AND
2. COORDINATION WITH MY PLANS AND SPECIFICATIONS AND IS ACCEPTABLE FOR INCORPORATION INTO THE CONSTRUCTION OF THE PROJECT.

I CERTIFY THAT:

- ☒ ALL DRAWINGS OR SHEETS LISTED ON THE COVER OR INDEX SHEET THIS DRAWING OR PAGE
- ☒ IS/ARE IN GENERAL CONFORMANCE WITH THE PROJECT DESIGN INTENT, AND
- ☒ HAVE BEEN COORDINATED WITH THE PROJECT PLANS AND SPECIFICATIONS.

SIGNATURE	10/6/2023
ARCHITECT IN RESPONSIBLE CHARGE:	TYSON CLINE
LICENSE NUMBER:	C-34436
EXPIRATION DATE:	1-31-2025

PROJECT DESCRIPTION

THIS PROJECT CONSISTS OF INSTALLATION OF ONE (1) PRE-MANUFACTURED SHADE STRUCTURES AND ASSOCIATED SITE WORK.

SHADE STRUCTURE TYPE: 30' WIDE RECTANGULAR GABLE
SHADE STRUCTURE PC#: 04-122188
SHADE STRUCTURE DESCRIPTION.: 30'X64'X10' CLR. HT.
SHADE STRUCTURE MODEL #: RG30

SHADE AREA: 1,920 SF
OCCUPANCY TYPE: A-3
TYPE OF CONSTRUCTION: II-B

OCCUPANT LOAD: 129 OCC. (15 SF/OCC.)

FLOOD HAZARD MAP

FLOOD ZONE DESIGNATION: ZONE X (0.2% CHANCE OF FLOODING)
FIRM PANEL DESIGNATION: 06111C0931F
EFFECTIVE DATE: 01/07/2015
BASE FLOOD ELEVATION: 0.0'
APPLICABLE COMMUNITY ORDINANCE SECTION: VENTURA COUNTY, CA

GEOHAZARD REPORT

PROVIDED DUE TO PROJECT LOCATION IN LIQUEFACTION HAZARD ZONE. PROJECT NO. 1025.006, DECEMBER 2022 BY GEOTECHNIQUES

INSPECTOR OF RECORD

A DSA CERTIFIED PROJECT INSPECTOR EMPLOYED BY THE DISTRICT AND APPROVED BY THE DIVISION OF THE STATE ARCHITECT SHALL PROVIDE CONTINUOUS INSPECTION OF THE WORK. THE DUTIES OF THE INSPECTOR ARE DEFINED IN SECTION 4-342, PART 1, TITLE 24, CCR. THE PROJECT INSPECTOR SHALL BE CERTIFIED BY DSA TO INSPECT CLASS 2.

WORK EXEMPT (DSA 103)

CONCRETE
- CONCRETE BATCH PLANT INSPECTION (REFER TO AS-102 KEYNOTES AND LEGEND)

GENERAL DSA NOTES

1. CHANGES TO THE APPROVED DRAWINGS AND SPECIFICATIONS SHALL BE MADE BY THE ADDENDA OR A CONSTRUCTION CHANGE DOCUMENT APPROVED BY THE DIVISION OF THE STATE ARCHITECT, AS REQUIRED BY SECTION 4-338, PART 1 TITLE 24, CCR.
2. A DSA ACCEPTED TESTING LABORATORY DIRECTLY EMPLOYED BY THE SCHOOL BOARD SHALL CONDUCT ALL REQUIRED TESTS & INSPECTIONS FOR THE PROJECT.
3. ALL WORK SHALL CONFORM TO 2022 TITLE 24, CALIFORNIA CODE OF REGULATIONS (CCR).
4. 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).
5. GRADING PLANS, DRAINAGE IMPROVEMENTS, ROAD AND ACCESS REQUIREMENTS AND ENVIRONMENTAL HEALTH CONSIDERATIONS SHALL COMPLY WITH ALL LOCAL ORDINANCES.
6. TITLE 24, PARTS 1-5 AND 9 MUST BE KEPT ON SITE DURING CONSTRUCTION.
7. ALL STRUCTURAL, ARCHITECTURAL, AND MATERIALS INSTALLATION TO COMPLY WITH APPLICABLE CODES, STANDARDS, AND MANUFACTURER’S RECOMMENDATIONS.
8. IF ANY CONDITION IS DISCOVERED WHICH, IF LEFT UNCORRECTED, WOULD MAKE THE BUILDING NON-COMPLIANT WITH THE REQUIREMENTS OF THE EDITION OF THE CBC IN FORCE AT THE TIME OF ORIGINAL CONSTRUCTION, THE CONDITION MUST BE CORRECTED IN ACCORDANCE WITH CURRENT CODE REQUIREMENTS. A CONSTRUCTION CHANGE DOCUMENT, OR A SEPARATE SET OF PLANS AND SPECIFICATIONS DETAILING AND SPECIFYING THE REQUIRED REPAIR WORK SHALL BE SUBMITTED TO AND APPROVED BY DSA BEFORE PROCEEDING WITH THE REPAIR WORK.

SHEET INDEX

ARCHITECTURAL BY A.O.R. 4 SHEETS

- T-1.0 GENERAL PROJECT INFORMATION
- T-1.1 SYMBOLS AND ABBREVI.
- AS-101 FIRE ACCESS SITE PLAN
- AS-102 ENLARGED SITE PLAN

SHADE A#04-122188 BY OTHER DESIGN PROFESSIONAL 7 SHEETS

- LS1.0 GENERAL INFO
- LS1.1 GENERAL INFO
- LS1.2 DSA 103 EXAMPLE
- LS1.3 DSA 103 EXAMPLE
- LS3.0 30' WIDE RECTANGULAR GABLE FOUNDATION PLAN
- LS3.1 30' WIDE RECTANGULAR GABLE FRAMING & CONNECTIONS DETAILS
- LS3.2 30' WIDE RECTANGULAR GABLE MULTI RIB ROOFING PLAN

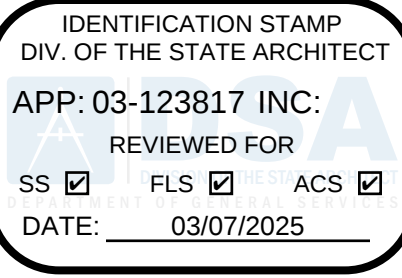
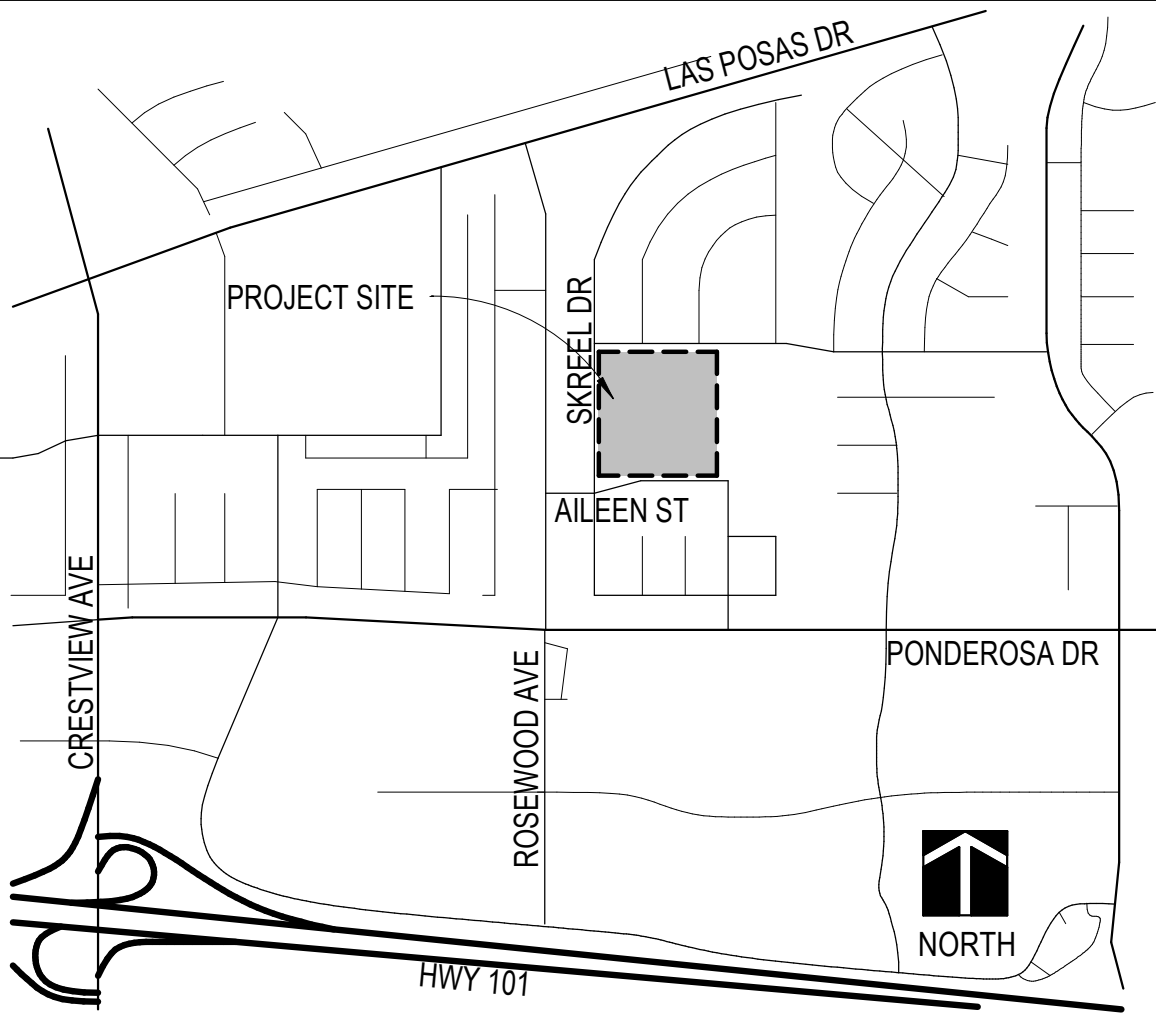
11 SHEET COUNT

PROJECT DIRECTORY

CLIENT
PLEASANT VALLEY SCHOOL DISTRICT
600 TEMPLE AVE.
CAMARILLO, CA 93010
CONTACT: SANDRA LOVAAS
P: (805) 445-8691

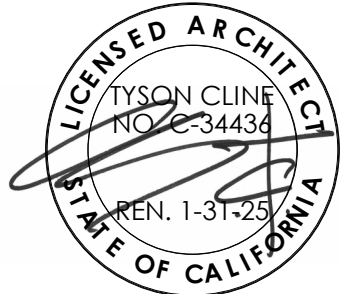
ARCHITECT
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PLEASANT VALLEY SCHOOL DISTRICT

VALLE LINDO ELEMENTARY SHADE STRUCTURE

777 AILEEN ST.
CAMARILLO, CA 93010

100% CDs

03-123817

No.	Description	Date

Sheet Name

GENERAL PROJECT INFORMATION

RNT Project No. 19849.18
Date 10/27/2023
Drawn by CD
Checked by CY
Sheet Number

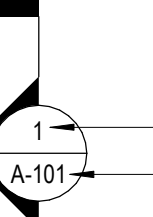
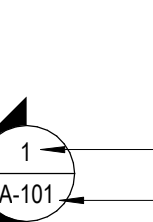
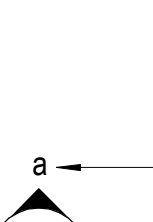
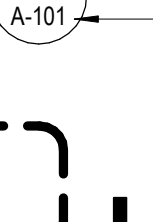
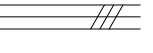
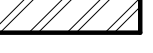
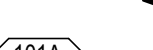
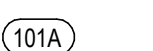
T-1.0

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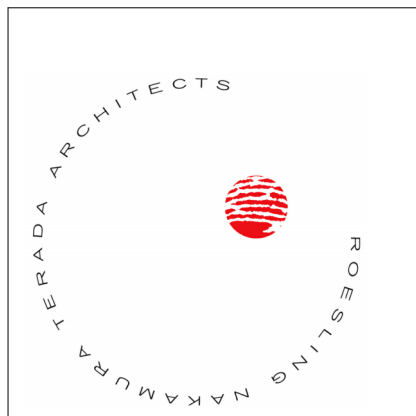
ABBREVIATIONS

DIA	DIA	HR.	HR
&	AND	HT.	HEIGHT
CL OR C	CENTERLINE	INSUL.	INSULATION
#	POUND OR NUMBER	INT.	INTERIOR
A.B.	ANCHOR BOLT	JT.	JOINT
ABV.	ABOVE	JST.	JOIST
ACP	ACOUSTICAL CEILING PANEL	LAM.	LAMINATE
A.D.	AREA DRAIN	LAV.	LAVATORY
ADJ.	ADJUSTABLE	LT.	LIGHT
A.F.F.	ABOVE FINISH FLOOR	L.P.	LOW POINT
A.F.G.	ABOVE FINISH GRADE	MFR.	MANUFACTURER
ALUM.	ALUMINUM	MATR'L	MATERIAL
A.G.	ANTI-GRAFFITI	MAX.	MAXIMUM
BLDG.	BUILDING	M.B.	MACHINE BOLT
BLKG.	BLOCKING	MECH.	MECHANICAL
BM.	BEAM	MIN.	MINIMUM
B.O.B.	BOTTOM OF BEAM	MIN	MINUTE
BOT.	BOTTOM	MISC.	MISCELLANEOUS
BTWN.	BETWEEN	M.O.	MASONRY OPENING
CAB.	CABINET	M.R.	MOISTURE RESISTANT
CALIF.	CALIFORNIA	MTL.	METAL
C.B.	CATCH BASIN	(N)	NEW
C.F.O.I	CONTRACTOR FURNISHED OWNER INSTALLED	N.I.C.	NOT IN CONTRACT
C.I.P.	CAST IN PLACE	NO. OR #	NUMBER
CJ	CONSTRUCTION JOINT	N.T.S.	NOT TO SCALE
C.J.	CONTROL JOINT	O/	OVER
C.L.	CHAIN LINK	O.C.	ON CENTER
CLG.	CEILING	O.F.C.I.	OWNER FURNISHED CONTRACTOR INSTALLED
CLR.	CLEAR	O.F.O.I.	OWNER FURNISHED OWNER INSTALLED
CMU	CONCRETE MASONRY UNIT	O.H.	OPPOSITE HAND
C.O.	CLEAN OUT	OPN'G	OPENING
COL.	COLUMN	OPPOS.	OPPOSITE
COMP.	COMPOSITION	PB	PULL BOX
CONC.	CONCRETE	PERF.	PERFORATED
CONN.	CONNECTION	PL.	PLATE OR PLASTIC
CONSTR.	CONSTRUCTION	PLAST.	PLASTER
CONT.	CONTINUOUS	PLYWD.	PLYWOOD
CORR.	CORRIDOR	PR.	PAIR
C.O.T.	CENTER OF TRUSS	PROJ.	PROJECTION
C.T.	CERAMIC TILE	P.T.D.F.	PRESSURE TREATED DOUGLAS FIR
DBL.	DOUBLE	R OR RAD	RADIUS
D.D.	DECK DRAIN	R.D.	ROOF DRAIN
DF	DOUGLAS FIR	REC.S	RECOMMENDATIONS
D.F.	DRINKING FOUNTAIN	REF.	REFER
DFCI	DISTRICT FURNISHED CONTRACTOR INSTALL	REFL.	REFLECTED
DG	DECOMPOSED GRANITE	REFRIG.	REFRIGERATOR
DIA.	DIA	REINF.	REINFORCED OR REINFORCEMENT
DIAG.	DIAGONAL	REQ.	REQUIRED OR REQUIREMENTS
DIM.	DIMENSION	RET.	RETAINING
DN	DOWN	RF.	ROOF
DR.	DOOR	RM.	ROOM
D.S.	DOWNSPOUT	ROOF'G	ROOFING
DWG	DRAWING	S.C.	SOLID CORE
(E)	EXISTING	SCHED.	SCHEDULE
EA	EACH	SHT'G	SHEATHING
EJ	EXPANSION JOINT	SHT.	SHEET
ELECT.	ELECTRICAL	SIM.	SIMILAR
ELEV.	ELEVATION	SJ	SAWCUT JOINT
ENCL.	ENCLOSURE	S.M.S.	SHEET METAL SCREWS
EQ	EQUAL	SQ.	SQUARE
EQUIP.	EQUIPMENT	S.S.	STAINLESS STEEL
EXIST.	EXISTING	ST.	STANDARD
EXP.	EXPANSION	STL.	STEEL
EXT.	EXTERIOR	STN.	STAIN
FAC.	FACORY	STOR.	STORAGE
F.B.	FIRE BLANKET	STRUCT.	STRUCTURAL
FD	FLOOR DRAIN	SUSP.	SUSPENDED
FDN.	FOUNDATION	T.A.	TOILET ACCESSORY
F.E.	FIRE EXTINGUISHER	T&B	TOP & BOTTOM
F.E.C.	FIRE EXTINGUISHER CABINET	TEL.	TELEPHONE
F.F.	FINISH FLOOR	TEMP.	TEMPERED
F.F.E.	FINISH FLOOR ELEVATION	TG	TOP OF GRATE
FIN.	FINISH	TJ	TOOLED JOINT
FLASH'G	FLASHING	T.O.	TOP OF
FLR.	FLOOR	T.O.B.	TOP OF BEAM
F.O.C.	FACE OF CONCRETE	T.O.M.	TOP OF MASONRY
F.O.F.	FACE OF FINISH	T.O.P.	TOP OF PARAPET
F.O.M.	FACE OF MASONRY	T.O.S.	TOP OF STEEL FRAMING
F.O.S.	FACE OF STUD	T.O.SHTG	TOP OF SHEATHING
FRAM'G	FRAMING	TPA	TRI-POLYMER ALLOY
FRP	FIBERGLASS REINFORCED PANEL	TS	TUBE STEEL
FT.	FOOT OR FEET	T.W.	TOP OF WALL
FTG.	FOOTING	TYP.	TYPICAL
F.V.	FIELD VERIFY	U.N.O.	UNLESS NOTED OTHERWISE
G.A.	GAUGE	U.O.N.	UNLESS OTHERWISE NOTED
GALV.	GALVANIZED	V.C.T.	VINYL COMPOSITION TILE
G.I.	GALVANIZED IRON	VERT.	VERTICAL
GL.	GLASS	V.G.D.F.	VERTICAL GRAIN
GLB.	GLU-LAM BEAM		DOUGLAS FIR
GOV'T	GOVERNMENT	V.I.F.	VERIFY IN FIELD
GWB	GYPSUM WALL BOARD	W/	WITH
GYP. BD.	GYPSUM BOARD	W.C.	WATERCLOSET
H.D.	HOLD DOWN	WD.	WOOD
HDWR.	HARDWARE	W.J.	WEAKENED-PLANE JOINT
HDG	HOT DIP GALV	W.O.	WHERE OCCURS
HDR.	HEADER	W.P.	WATERPROOF
HGR.	HANGER	W.P.B.	WATERPROOF BARRIER
HORIZ.	HORIZONTAL	W.P.M.	WATERPROOF MEMBRANE
H.P.	HIGH POINT	W.R.	WATER RESISTANT
H.M.	HOLLOW METAL	WT.	WEIGHT
		W.W.F.	WELDED WIRE FABRIC

SYMBOLS

	PROPERTY LINE
	NEW OR FINISHED CONTOURS
	EXISTING CONTOURS
	SLOPING SURFACE
	GRID LINE
	SECTION
	EXTERIOR ELEVATION
	INTERIOR ELEVATION
	DETAILS
	CONCRETE
	SOIL
	CONCRETE MASONRY UNIT
	PLYWOOD
	STEEL
	WOOD BLOCKING
	WOOD CONTINUOUS MEMBER
	WORK POINT, CONNECTION POINT, DATUM POINT OR CONTROL POINT
	KEYNOTE
	DOOR NUMBER REFERENCE, REFER TO DOOR SCHEDULE
	WINDOW NUMBER REFERENCE, REFER TO WINDOW TYPES
	WALL TYPE REFERENCE, REFER TO AD101-AD106
	SIGN TYPE REFERENCE, REFER TO AD701
	ALIGN FINISHES
	TICK INDICATES DIMENSIONS TO FACE OF STUD, GRIDLINES OR FACE OF STRUCTURE
	DOT INDICATES DIMENSION TO CENTERLINE
	ARROW INDICATES DIMENSION TO F.O. FINISH OR CLEAR DIMENSION
	SPOT ELEVATION
	REVISION DELTA (CLOUD INDICATES AREA REVISED)

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-123817 INC:
REVIEWED FOR
SS ☒ FLS ☒ ACS ☒
DATE: 03/07/2025



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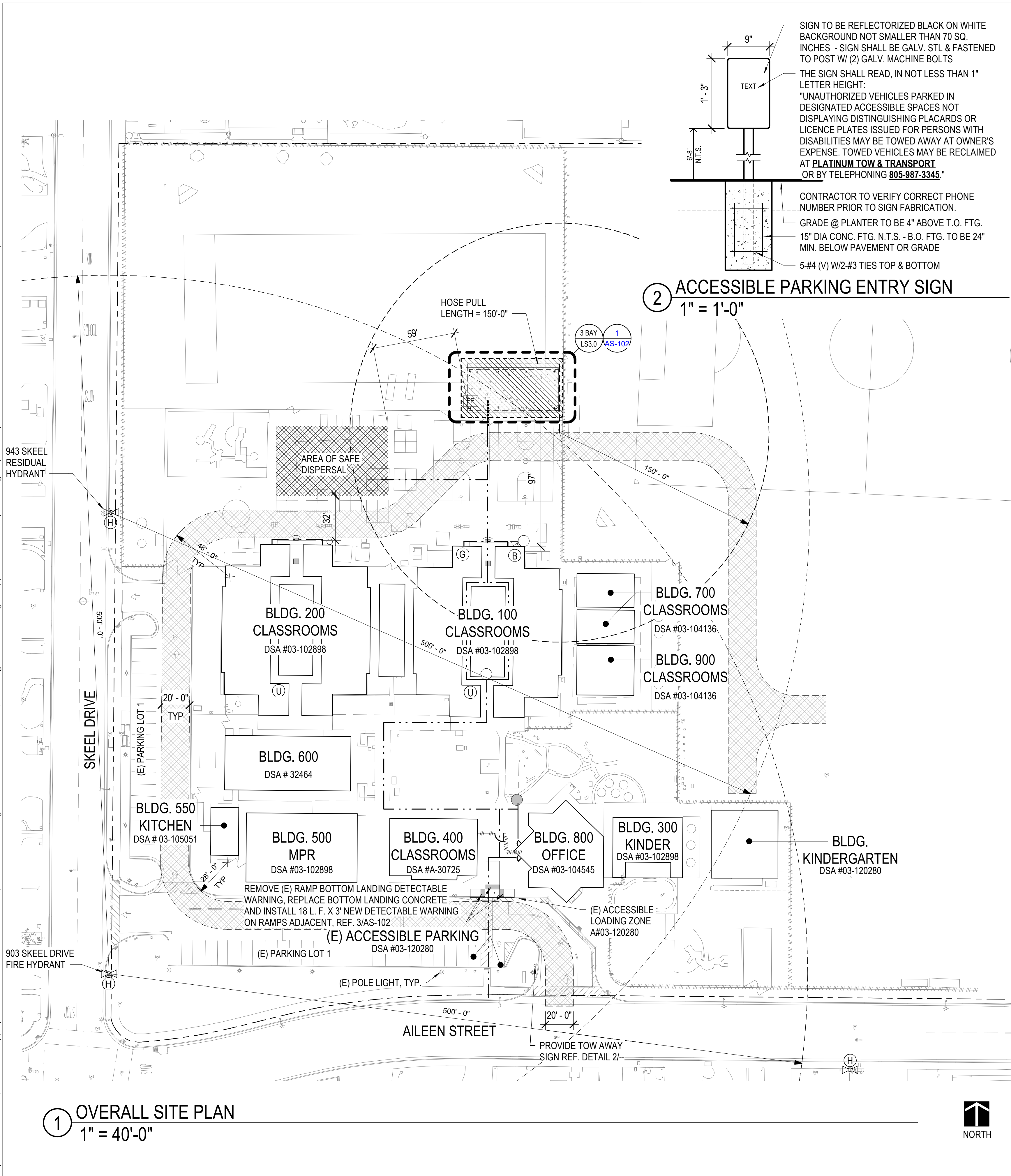
Sheet Name

SYMBOLS AND ABBREV.

RNT Project No.	19849.18
Date	10/27/2023
Drawn by	CD
Checked by	CY
Sheet Number	

T-1.1

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VENTURA COUNTY FIRE DEPARTMENT

165 Ulrey Avenue, Camarillo, CA 93010-8586
Office: (805) 389-9738 Fax: (805) 388-4356

FIRE PREVENTION FOM 625 FIRE-FLOW VERIFICATION

SECTION I - PROJECT INFORMATION (To Be Completed by Applicant)

Project Name: CAPE Charter School
Project Address: 777 Allen

APN: _____
City: Camarillo

SECTION II - INFORMATION ON FIRE-FLOW ALLOCATION (To Be Completed by Water Purveyor)

System Information:

Water Purveyor: City of Camarillo
Size & Location of Main: 8 inch Steel Street Distance to Parcel: 21 Feet
Size of Reservoir Serving Test Hydrants: 3 Million Gallons

Hydrant Information:

Location of Residual Hydrant: 943 Steel Distance to Parcel: 6 Feet
Location of Flow Hydrant: 903 Steel Drive Distance to Parcel: 10 Feet
Type: Wet Size: 3 inch # of Outlets: 1 4" 2" 1 1/2"

* Distance to parcel shall be measured along the vehicular access

Test Result Information:

Method Used to Obtain Results: ☒ Hydraulic Model ☒ Flow Test ☒ PPM Test
Date of Test: 6-18-2023 Time of Test: 2:00 ☐ AM ☒ PM
Static PSF: 102 Residual PSF: 97 Friction Loss: 2.5 Pilot: 88
Observed GPM: 1583 Calculated GPM @ 20 psi: 4866 Capacity Duration: _____ hrs

I have observed and/or reviewed this water flow information and on-site observation certify that the above information is correct.

Name: Andy Flores

Signature: _____ Date: 06/13/2023
Title: Assistant Water Superintendent Company: City of Camarillo

Phone: (805) 383-5643

- ☐ Private on-site water system proposed. Separate plan submittal required.
- ☐ Water purveyor approves use of private water system. (Purveyor signature required above).

Fire Detection Number: _____

January 1, 2023

Fire-flow Verification

625-1

DSA 810

FIRE & LIFE SAFETY SITE CONDITIONS SUBMITTAL

To facilitate the Division of the State Architect's (DSA) fire and life safety plan review of project site conditions, DSA requires the design professional to provide the following information at time of project submittal for projects consisting of construction of a new campus, construction of new building(s), additions to existing buildings, and for site alternate design means for fire department emergency vehicle access, and fire suppression water supply. Information associated with compliance items 1 through 3 below is to be provided for all project types indicated above. Information associated with items 4 through 7 is to be completed when an alternate means is utilized. Acknowledgement by the school district and signature from the Local Fire Authority (LFA) is only required when an alternate design means is being requested.

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

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

PROJECT INFORMATION			
School District/Owner: Pleasant Valley School District			
Project Name/School: Valde Lino Elementary			
Project Address: 777 ALLEEN ST. CAMARILLO, CA 93010			
FIRE & LIFE SAFETY INFORMATION			
1. Has a fire hydrant flow test been performed within the past 12 months? (If yes, provide a copy of the test data)	Yes ☒	No ☐	
2. Was the fire hydrant water flow test performed as part of this LFA review?	Yes ☒	No ☐	
3. Is the project located within a designated fire hazard severity zone (FHSZ) as established by Cal-Fire? (If yes, indicate FHSZ classification below.)	Yes ☐	No ☒	
Refer to the following websites for FHSZ locations: http://onon.fire.ca.gov/FHSZ/	Moderate ☐	High ☐	Very High ☐
Wildland Interface Area (WIFA) (If any designations are checked, project design must meet the requirements of CBC Chapter 7A.)			WIFA ☐

DGS DSA 810 (revised 12/29/20) Page 1 of 4
 DIVISION OF THE STATE ARCHITECT DEPARTMENT OF GENERAL SERVICES STATE OF CALIFORNIA

DSA 810
FIRE & LIFE SAFETY SITE CONDITIONS SUBMITTAL

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

School District Acceptance of Acceptable Design Alternates

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

Accepted by: _____ Title: _____

Signature: _____ Date: _____

LOCAL FIRE AUTHORITY (LFA) INFORMATION	
LFA Agency Name: <u>Ventura County Fire Department</u>	
LFA Review Official: <u>Brandon Sube</u>	
Title: <u>Fire Inspector II</u>	Work Phone: <u>(805) 914-7436</u>
Work Email: <u>Brandon.Sube@ventura.org</u>	
 Brandon Sube LFA Review Official's Signature Digitally signed by Brandon Sube Date: 2023.06.26 10:05:36 -0700 06/26/23 Date	

DGS DSA 810 (revised 12/29/20) Page 2 of 4
 DIVISION OF THE STATE ARCHITECT DEPARTMENT OF GENERAL SERVICES STATE OF CALIFORNIA

ACCESSIBLE P.O.T. NOTES

ACCESSIBLE PATH OF TRAVEL AS INDICATED ON PLAN IS A BARRIER-FREE ROUTE WITHOUT ANY ABRUPT LEVEL CHANGES EXCEEDING 1/2" IF BEVELED AT 1:12 OR VERTICAL LEVEL CHANGES NOT EXCEEDING 1/4" MAX. AND AT LEAST 48" IN WIDTH. SURFACE IS STABLE, FIRM, AND SLIP RESISTANT. CROSS SLOPE DOES NOT EXCEED 2% AND SLOPE IN THE DIRECTION OF TRAVEL IS LESS THAN 5%, UNLESS OTHERWISE INDICATED. ACCESSIBLE PATH OF TRAVEL SHALL BE MAINTAINED FREE OF OVERHANGING OBSTRUCTIONS TO 80" MINIMUM, AND PROTRUDING OBJECTS GREATER THAN 4" PROJECTION FROM WALL AND ABOVE 27" AND LESS THAN 80". ARCHITECT SHALL VERIFY THAT THERE ARE NO BARRIERS IN THE PATH OF TRAVEL.

ARCHITECTS STATEMENT

REFER TO DSA PR 15_01

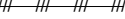
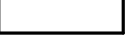
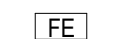
A. THE P.O.T. IDENTIFIED IN THESE CONSTRUCTION DOCUMENTS MEETS THE REQUIREMENTS OF THE CURRENT APPLICABLE CALIFORNIA BUILDING CODE (CBC) ACCESSIBILITY PROVISIONS FOR PATH OF TRAVEL REQUIREMENTS FOR ALTERATIONS, ADDITIONS AND STRUCTURAL REPAIRS. AS PART OF THE DESIGN OF THIS PROJECT, THE P.O.T. WAS EXAMINED 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.

B. 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.

FIRE DEPARTMENT NOTES

- A. PROVIDE A MINIMUM, UNOBSTRUCTED WIDTH OF 20 FEET CLEAR TO SKY, VEHICULAR ACCESS TO WITHIN 150 FEET OF ALL PORTIONS OF THE EXTERIOR WALLS. FIRE CODE 902.2.1
- B. EXISTING FIRE DEPARTMENT ACCESS TO REMAIN.
- C. VEHICULAR ACCESS MUST BE PROVIDED AND MAINTAINED SERVICEABLE THROUGHOUT CONSTRUCTION.
- D. THE FIRE FLOW FOR ON-SITE HYDRANT MEETS THE REQUIREMENTS FOR THIS FIRE AUTHORITY.
- E. INSPECTION FOR COMPLIANCE WITH THESE CONDITIONS AND GENERAL SAFETY WILL BE REQUIRED PRIOR TO OCCUPANCY.

LEGEND

- | | |
|---|--|
|  | ASSUMED PROPERTY LINE |
|  | (E) CHAIN LINK FENCE |
|  | (N) ACCESSIBLE PATH OF TRAVEL |
|  | EXISTING ACCESSIBLE PATH OF TRAVEL, A# 03-120280, A# 03-104545 |
|  | 150' HOSE DRAG LENGTH. |
|  | (E) FIRE TRUCK ACCESS, A# 03-120280
20'-0" WIDE MIN. - 100' MAX. LENGTH FOR TRUCK BACK-UP.
40' MIN. TURNING RADIUS + MIN. WIDTH OF 16' |
|  | AREA OF WORK |
|  | EXISTING BUILDINGS |
|  | (E) EXIT DISCHARGE PATH LIGHTING |
|  | (E) FIRE ALARM HORN. V.I.F. |
|  | (E) FIRE HYDRANT |
| (B) | (E) ACCESSIBLE BOYS' TOILET ROOM, A#03-102898 |
| (G) | (E) ACCESSIBLE GIRLS' TOILET ROOM, A#03-102898 |
| (U) | (E) ACCESSIBLE UNISEX STAFF TOILET ROOM |
| ○ | (E) ACCESSIBLE HI-LOW PEDESTAL DRINKING FOUNTAIN, A#03-120280 |
| ○ | (E) DRINKING FOUNTAIN |
|  | FIRE EXTINGUISHER, BRACKET MOUNTED |

LIST OF BUILDINGS

D	<u>BUILDING USE</u>	<u>A# ORG.</u>	<u>A# MOD.</u>	<u>CERTIFICATION</u>
BLDG. 100	CLASSROOMS	30725	03-102898	# 2
BLDG. 200	CLASSROOMS	30725	03-102898	# 2
BLDG. 300	KINDER	30725	03-102898	# 2
BLDG. 400	CLASSROOMS	30725	03-104545	# 2
BLDG. 500	MPR	30725	03-102898	# 2
BLDG. 550	KITCHEN	03-105051	-	# 1
BLDG. 600	CLASSROOMS	32464	03-102898	# 2
BLDG. 700	CLASSROOMS	-	-	# -
BLDG. 800	ADMIN	03-104545	-	# 3
BLDG. 900	CLASSROOMS	03-104136	-	# 1
BLDG.	KINDERGARTEN	03-120280	-	# -*

PENDING EXECUTION OF CCD-01 UNDER THIS CONTRACT

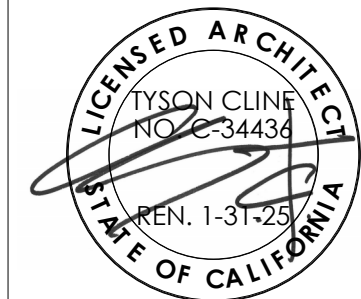
ACCESSIBLE PARKING LOT CALC.

LOT 1	TYPE	EXISTING	REQUIRED	PROVIDED
	PARKING	42 SPACES	N/A	42 SPACES
	ACCESSIBLE PARKING	2 SPACES	2 SPACE	2 SPACES
	ACCESSIBLE VAN PARKING	1 SPACE	1 SPACE	1 SPACE
	TOTAL # OF PARKING SPACES: 44 SPACES			



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03-123817

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Sheet Name

FIRE ACCESS SITE PLAN

RNT Project No. 19849.18

Date	10/27/2023
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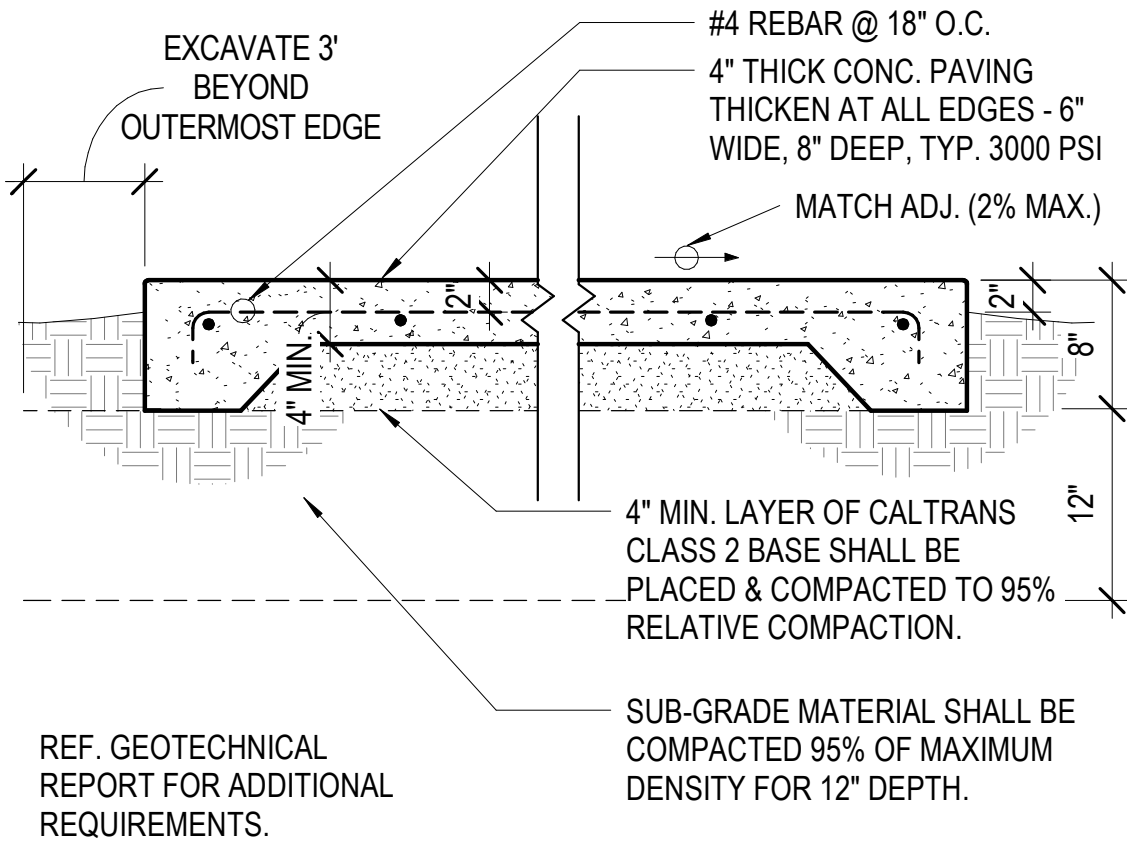
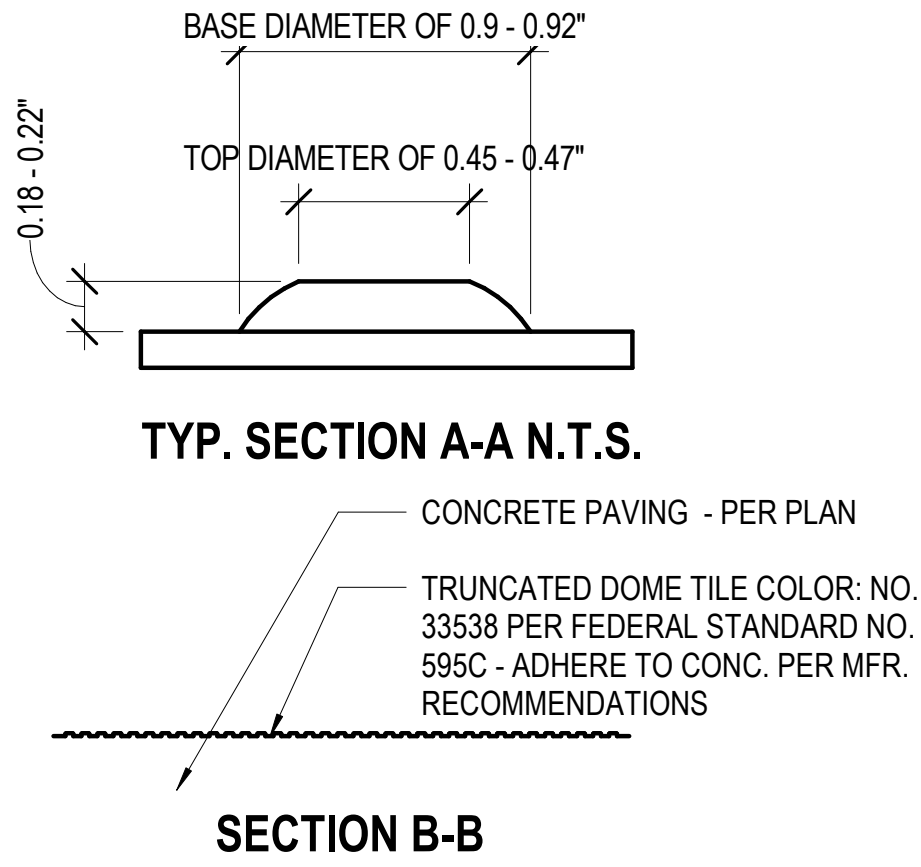
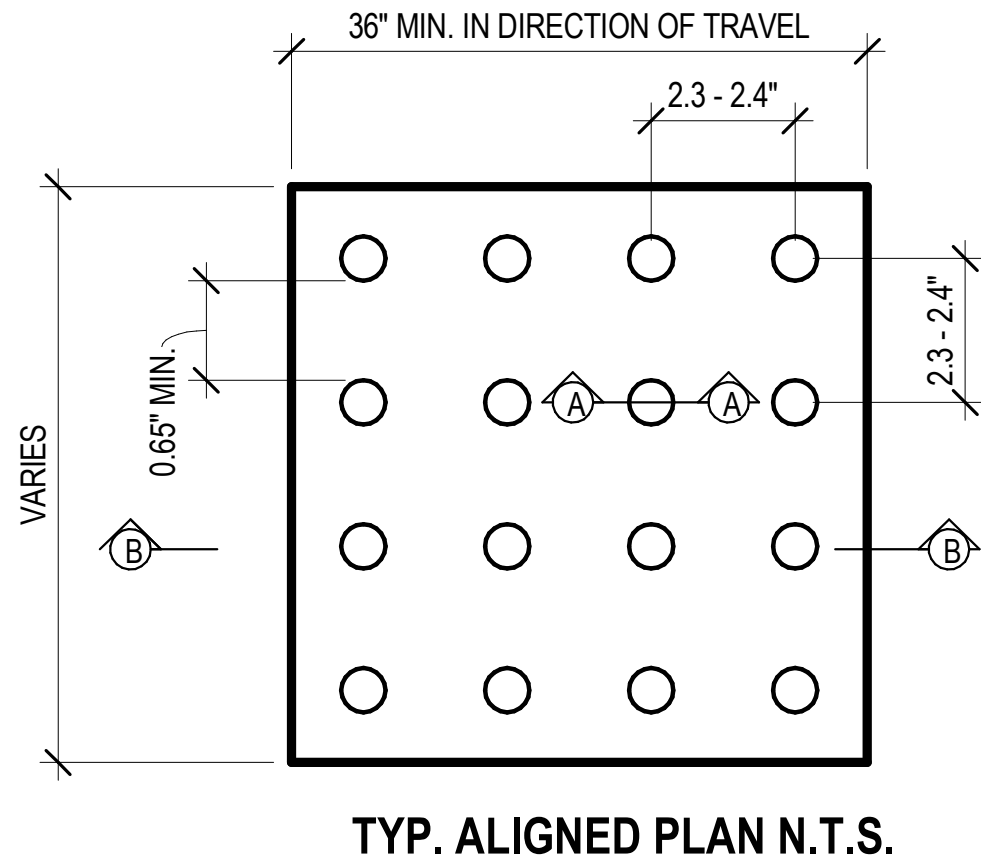
Drawn by	CD
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Checked by	CY
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Checked by	CT
Sheet Number	

AS-101

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GENERAL NOTES

1. THE CONTRACTOR SHALL LOCATE EXISTING ELECTRICAL, FIRE WATER, WATER, IRRIGATION, SEWER & STORM WATER WITHIN PROJECT BOUNDARIES AND ADVISE AS TO FEASIBILITY OF RELOCATION AND/OR REMOVAL.
2. ALL ITEMS ARE CONSIDERED NEW UNLESS NOTED AS (E) EXISTING. TURF REPAIR IS THE RESPONSIBILITY OF THE CONTRACTOR.
3. IRRIGATION REPAIR OR REINSTALLATION BY CONTRACTOR.
4. REPAIR OF DAMAGE TO EXISTING FACILITIES TO REMAIN IS THE RESPONSIBILITY OF THE CONTRACTOR.
5. FASTENERS GENERALLY ARE PROVIDED BY SHADE STRUCTURE MANUFACTURER WITH PREFINISHED COATING TO MATCH COLOR OF SHADE STRUCTURE. WHERE EXPOSED FASTENERS DO NOT MATCH SHADE STRUCTURE COLOR, USE MANUFACTURER-PROVIDED TOUCH UP PAINT.
6. IF SHEET IS LESS THAN 24\"/>

SHADE STRUCTURE USAGE NOTES

1. SHADE STRUCTURE SHALL NOT BE USED FOR STORAGE.
2. COOKING SHALL NOT BE PERMITTED UNDERNEATH SHADE STRUCTURE.

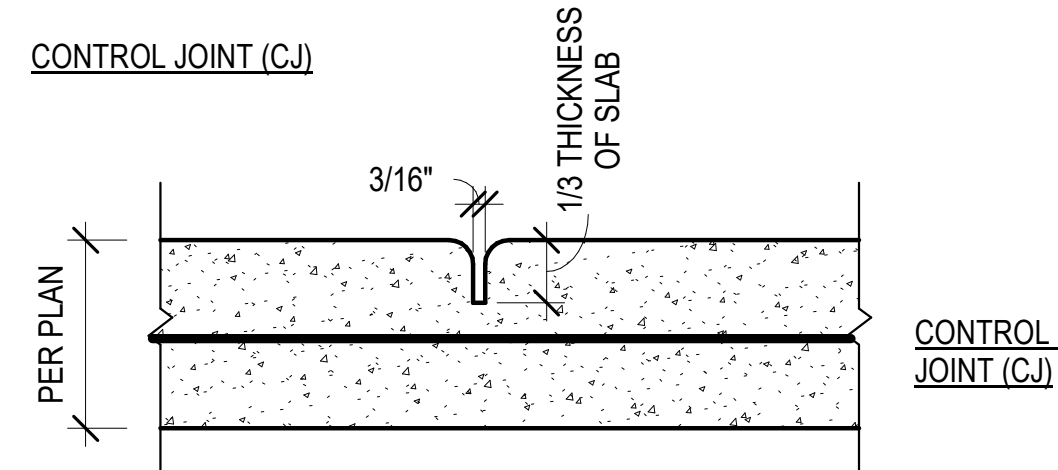
LEGEND

- CONCRETE PAVING, REF. 2 / AS-102 & 20 / AS-102 FOR EXPANSION AND CONTROL JOINTS. EXEMPT BATCH PLANT TESTING PER CBC 1705.A.3.3.2 EXCEPTION
- DEMOLISH AND REPLACE EXISTING ASPHALT, REPAINT STRIPPING WHERE REQUIRED

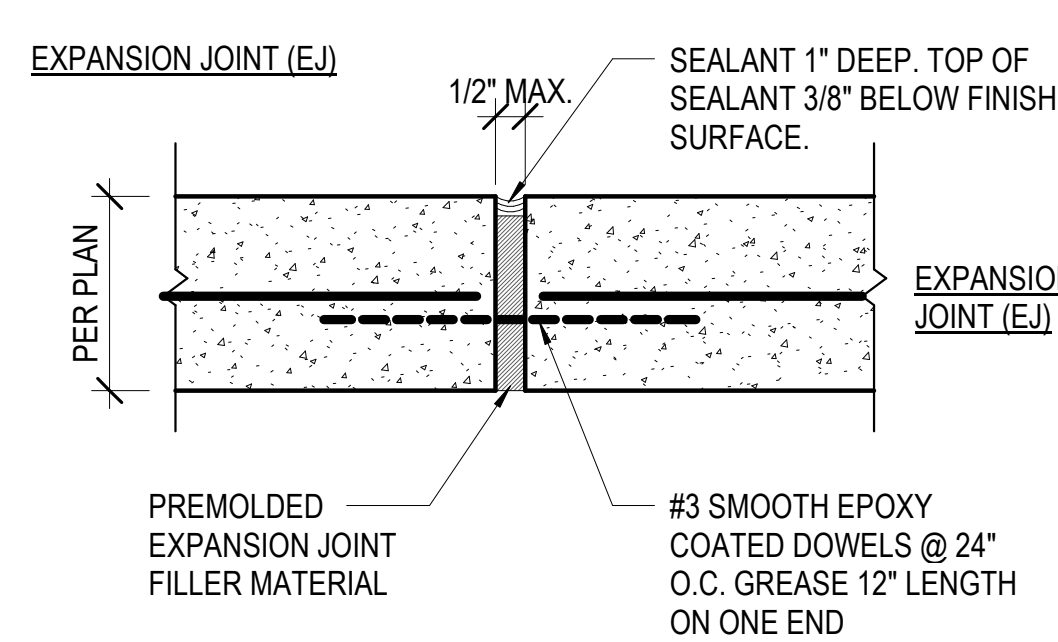
KEYNOTE LIST

- 00-01 SHADE STRUCTURE (A# 04-122188 PC) W/ 10' COLUMN HEIGHT, O.F.C.I.
02-01 P.I.P. (E) ASPHALT PLAY AREA, STRIPING AND EQUIPMENT
02-02 DEMOLISH (E) CHAIN LINK GATE AND FOOTINGS COMPLETE
02-03 DEMOLISH (E) CHAIN LINK FENCE AND FOOTINGS ENTIRE TO PERPENDICULAR FENCING TO REMAIN AT EACH END.
02-06 P.I.P. (E) CHAIN LINK FENCE
02-08 P.I.P. (E) TURF
02-25 RELOCATE (E) CONNEX BOX
02-26 RELOCATE (E) CHAIN LINK FENCE GATE
02-28 P.I.P. (E) BASKETBALL POST AND HOOP
03-01 CONCRETE PAD AND EXTENT OF EXCAVATION, REF. 2/AS-102
03-03 SHADE STRUCTURE FOOTING (A# 04-122188 PC, 10' COLUMN HEIGHT) EXEMPT BATCH PLANT TESTING PER CBC 1705.A.3.3.2 EXCEPTION, MIN. 96\"/>

CONTROL JOINT (CJ)



EXPANSION JOINT (EJ)



CONCRETE JOINTS

- CJ CONTROL / CONTRACTION JOINTS TROWEL 3/16\"/>
- EJ EXPANSION / ISOLATION JOINTS FORMED WITH PREFORMED EXPANSION JOINT MATERIAL WITH REMOVABLE TOP STRIP FOR PLACEMENT OF SEALANT

NOTES:

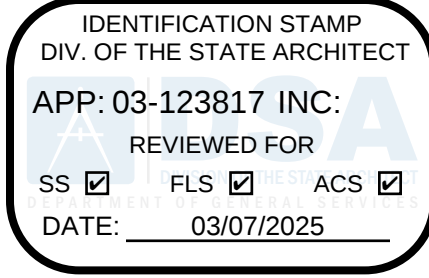
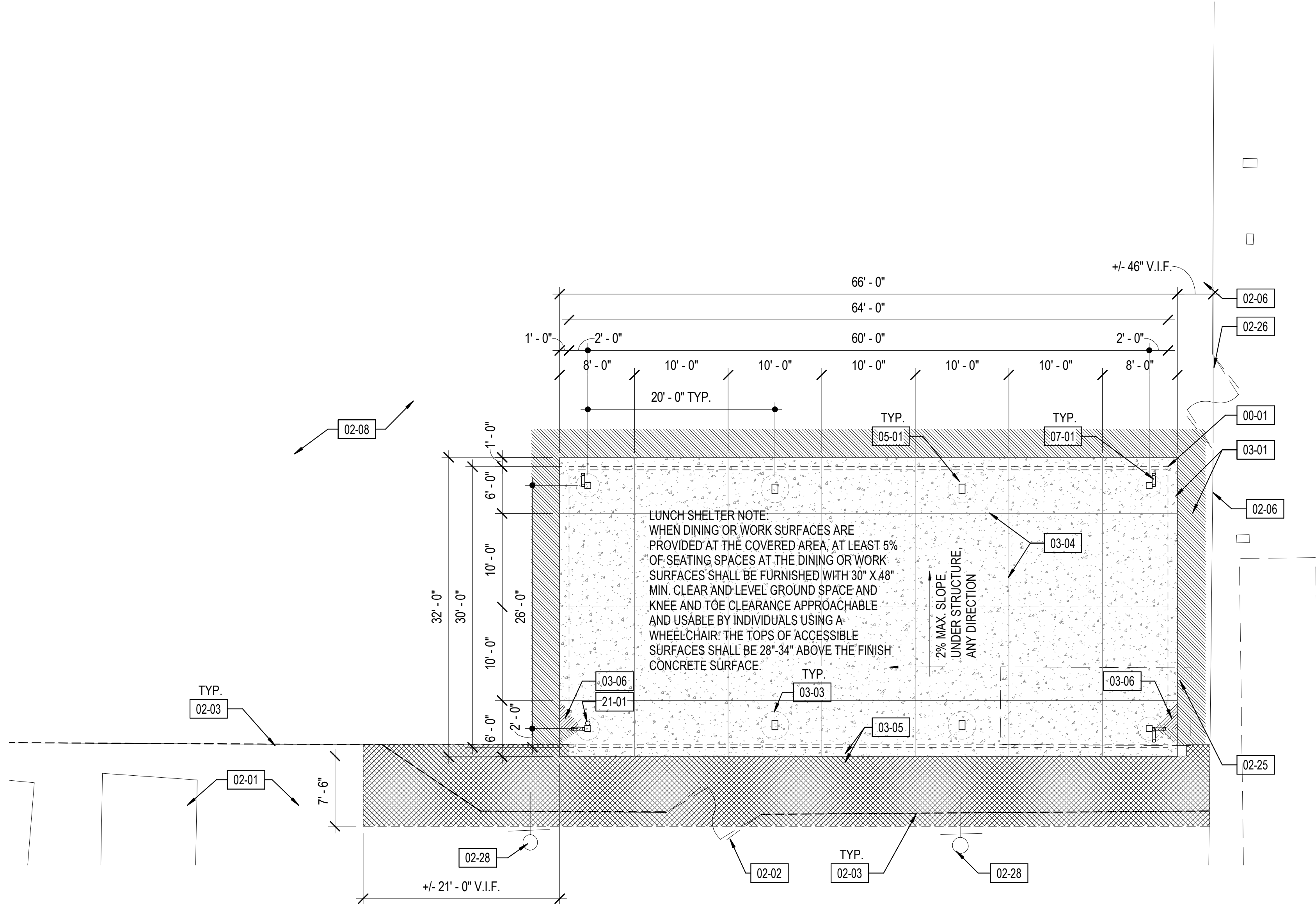
1. ALL JOINTS OTHER THAN EXPANSION JOINTS SHALL BE TOOLED CONTROL JOINTS U.N.O.
2. INSTALL EXPANSION JOINTS AT ALL LOCATIONS WHERE PAVEMENT MEETS BUILDINGS, WALLS, CURBS AND OTHER PERMANENT STRUCTURES OR AT 48\"/>

TYP. JOINTS @ CONC. PAVEMENT

3/4\"/>

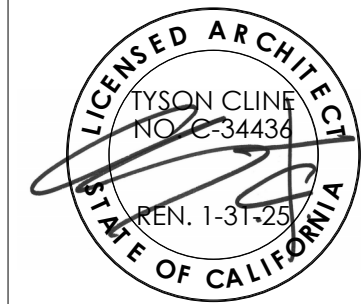
1 SITE PLAN - ENLARGED

1/8\"/>



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PLEASANT VALLEY SCHOOL DISTRICT

VALLE LINDO ELEMENTARY SHADE STRUCTURE

777 AILEEN ST.
CAMARILLO, CA 93010

100% CDs

03-123817

No.	Description	Date

Sheet Name

ENLARGED SITE PLAN

RNT Project No.	19849.18
Date	10/27/2023
Drawn by	Author
Checked by	CY
Sheet Number	

AS-102

DESIGN CRITERIA

BASE LOCATION LOCATED AT BOTTOM OF BASEPLATE/TOP OF FOOTING

DESCRIPTION

DESIGN VALUES

ROOF LIVE LOAD

20 PSF

ROOF DEAD LOAD (SUPERIMPOSED ON FRAME)

5 PSF MAX

ROOF PANEL DEAD LOAD

M=1.1 PSF, G = 1.2 PSF, S = 1.3 PSF

COLLATERAL DEAD LOAD

M = 3.9 PSF, G = 3.8 PSF, S = 3.7 PSF

ROOF LIVE LOAD

20 PSF

ROOF SNOW LOAD

20 PSF

GROUND SNOW LOAD, F_g

20 PSF

RISK CATEGORY

II

ROOF SNOW LOAD: SLOPED, F_s

20 PSF

FOR SNOW LOAD CONDITIONS ONLY - SITE APPLICATION REVIEWER SHALL VERIFY THE STRUTURE SHALL BE LOCATED AT LEAST 20 FEET FROM ANY ADJACENT STRUCTURE FOR SNOW DRIFT.

SNOW LOAD SLOPE FACTOR, C_s

1.0

SNOW LOAD EXPOSURE FACTOR, C_e

1.0

SNOW LOAD IMPORTANCE FACTOR, I_s

1.0

THERMAL FACTOR, C_t

1.2

LOWEST ANTICIPATED SERVICE TEMPERATURE

30

WIND DESIGN

BASIC WIND SPEED (3 SECOND GUST), V_{ult}, V_{asd}

100 MPH, 78 MPH

RISK CATEGORY

II

EXPOSURE CATEGORY

C

FACTORS: K_{zt}, K_g, K_d

0.85, 1.0, 0.85

q_h = 0.00256 K_z K_g K_d V²

18.50 PSF

C_{wt} PER ASCE FIGURE 27.3-5 ROOF ANGLE 18.43 - CLEAR / OBSTRUCTED

CASE A (1.1 / -1.2) CASE B (0.01 / -0.69)

C_{wt} PER ASCE FIGURE 27.3-5 ROOF ANGLE 18.43 - CLEAR / OBSTRUCTED

CASE A (-0.17 / -1.09) CASE B (-0.96 / -1.65)

C_{wt} PER ASCE FIGURE 27.3-7 PARALLEL TO RIDGE - CLEAR / OBSTRUCTED (<h)

CASE A (-0.8 / -1.2) CASE B (0.8 / 0.5)

C_{wt} PER ASCE FIGURE 27.3-7 PARALLEL TO RIDGE - CLEAR / OBSTRUCTED (> h, < 2h)

CASE A (-0.6 / -0.9) CASE B (0.5 / 0.5)

C_{wt} PER ASCE FIGURE 27.3-7 PARALLEL TO RIDGE - CLEAR / OBSTRUCTED (>2h)

CASE A (-0.3 / -0.6) CASE B (0.3 / 0.3)

COMPONENTS & CLADDING - C_u (PRESSURE/SUCTION) CLEAR / OBSTRUCTED

ZONE 3 - (2.29 / -2.11) / (1.0 / -3.0)

ZONE 2 - (1.77 / -1.63) / (0.8 / -2.3)

ZONE 1 - (1.15 / -1.05) / (0.5 / -1.5)

SEISMIC DESIGN

STEEL - ORDINARY CANTILEVER COLUMN

LATERAL FORCE RESISTING SYSTEM

EQUIVALENT LATERAL FORCE

ANALYSIS PROCEDURE

1.0

SEISMIC IMPORTANCE FACTOR, I_s

D

SEISMIC SITE CLASS

2.60

MCE_s SPECTRAL RESPONSE ACCELERATION @ 0.2 s, S_s

0.90

MCE_s SPECTRAL RESPONSE ACCELERATION @ 0.2 s, S₁

1.20

SHORT PERIOD SITE COEFFICIENT, F_a

1.70

LONG PERIOD COEFFICIENT, F_v

0.152 s

FUNDAMENTAL PERIOD OF THE STRUCTURE, T (WORST CASE FOR ALL STRUCTURES)

2.08

DESIGN SPECTRAL RESPONSE ACCELERATION AT SHORT PERIOD, S_{DS}

DESIGN SPECTRAL RESPONSE ACCELERATION AT SHORT PERIOD, S_{DS} - USED TO DETERMINE C_s (WITH CAP PER ASCE 7 12.8.1.3) SOIL PROPERTIES MAY NOT BE CLASSIFIED AS SITE CLASS E

2.08 * 0.70 = 1.456

DESIGN SPECTRAL RESPONSE ACCELERATION AT 1-s PERIODS, S_{D1}

1.02

SEISMIC DESIGN CATEGORY

E

SITE SPECIFIC RESPONSE ANALYSIS NOT REQUIRED PER ASCE 7 11.4.8 EXCEPTION 2

T_s = 0.49 s

T < 1.5 * T_s

RESPONSE MODIFICATION FACTOR, R

1.25

OVERSTRENGTH FACTOR, Q

1.25

REDUNDANCY FACTOR, ρ

1.0

HORIZONTAL OR VERTICAL IRREGULARITIES

NONE

SEISMIC RESPONSE COEFFICIENT, C_s (20' WIDE, 30' WIDE, 40' WIDE)

1.16

1.00

1.00

DESIGN BASE SHEAR, V (20' WIDE, 30' WIDE, 40' WIDE) (WORST CASE)

10.62 PSF

12.70 PSF

12.85 PSF

ALLOWABLE SOIL BEARING FOR FOUNDATIONS

VARIES - SEE FOUNDATION CHARTS

FLOOD DESIGN - DESIGN IS ASSUMED TO NOT BE IN FLOOD HAZARD AREA

IF PROJECT IS LOCATED IN A FLOOD ZONE OTHER THAN ZONE X, A LETTER STAMPED & SIGNED FROM A SOILS ENGINEER IS REQUIRED TO VALIDATE THE ALLOWABLE SOIL VALUES SPECIFIED.

STRUCTURAL SEPARATION

SEPARATION IS THE SUM OF 2 OF THESE SELECTED DEFLECTION

ALL DEFLECTIONS SHOWN ALSO INCLUDE THE P-DELTA ROTATION PER IBC-17

DEFLECTIONS ARE FOR (1) STRUCTURE

SOIL CLASSES PER CBC TABLE 1806A.2			
MAXIMUM DRIFT δ _{max}	SIDE COLUMNS	Soil Class 5	Soil Class 4
20' WIDE (8' EAVE HT, 10' EAVE HEIGHT, 12' EAVE HT)	(INCHES)	[] 2.40	[] 2.55
30' WIDE (8' EAVE HT, 10' EAVE HEIGHT, 12' EAVE HT)	(INCHES)	[] 2.15	[] 2.30
40' WIDE (8' EAVE , T, 10' EAVE HEIGHT, 12' EAVE HT)	(INCHES)	[] 2.20	[] 2.20
MINIMUM SEPARATION (δ _m = C _d δ _{max})	C _d = 1.25		
20' WIDE (8' EAVE HT, 10' EAVE HEIGHT, 12' EAVE HT)	(INCHES)	[] 3.00	[] 3.19
30' WIDE (8' EAVE HT, 10' EAVE HEIGHT, 12' EAVE HT)	(INCHES)	[] 2.69	[] 2.88
40' WIDE (8' EAVE HT, 10' EAVE HEIGHT, 12' EAVE HT)	(INCHES)	[] 2.75	[] 2.75

MAXIMUM DRIFT δ _{max}	END COLUMNS	Soil Class 5	Soil Class 4
20' WIDE (8' EAVE HT, 10' EAVE HEIGHT, 12' EAVE HT)	(INCHES)	[] 2.40	[] 2.55
30' WIDE (8' EAVE HT, 10' EAVE HEIGHT, 12' EAVE HT)	(INCHES)	[] 2.15	[] 2.30
40' WIDE (8' EAVE HT, 10' EAVE HEIGHT, 12' EAVE HT)	(INCHES)	[] 2.20	[] 2.20
MINIMUM SEPARATION (δ _m = C _d δ _{max})	C _d = 1.25		

20' WIDE (8' EAVE HT, 10' EAVE HEIGHT, 12' EAVE HT)	(INCHES)	[] 3.00	[] 3.19
30' WIDE (8' EAVE HT, 10' EAVE HEIGHT, 12' EAVE HT)	(INCHES)	[] 2.69	[] 2.88
40' WIDE (8' EAVE HT, 10' EAVE HEIGHT, 12' EAVE HT)	(INCHES)	[] 2.75	[] 2.75

INSTRUCTIONS FOR ARCHITECTS SUBMITTING THESE PRE-CHECKED DRAWINGS TO DSA:

BEFORE SUBMITTING THESE PRE-CHECKED DRAWINGS FOR YOUR PROJECT, FOLLOW THE STEPS BELOW TO PROPERLY DEFINE THE APPROVED OPTIONS:

STEP 1: SELECT FRAME DIMENSIONS FOR YOUR PROJECT
-GABLE STRUCTURES UP TO 20' WIDE USE THE "RG 20" BASE FRAME
-GABLE STRUCTURES UP TO 30' WIDE USE THE "RG 30" BASE FRAME
-GABLE STRUCTURES UP TO 40' WIDE USE THE "RG 40" BASE FRAME
-MAXIMUM WIDTH IS 40' (SEE "ARCHITECTURAL VIEWS" SHEET FOR REFERENCE)
-THE 24', 44', 64' AND 104' LENGTHS ARE SUGGESTED BECAUSE THEY ARE THE MOST COMMON (20' BAYS ARE THE MOST ECONOMIC)
-FRAME LENGTHS ASSUME 2' OVERHANGS (UNO BY ARCHITECT - 2' MAX DIMENSION)

STEP 1	FRAME DIMENSIONS					
	SUGGESTED			OTHER		
	FRAME WIDTH	[] 20'	☒ 30'	[] 40'	[] (40' MAX)	
	FRAME LENGTH	[] 44'	☒ 64'	[] 84'	[] 104'	[] (NO MAX)

STEP 2: SELECT ROOF DECK FOR YOUR PROJECT
-"M" REPRESENTS McELROY METAL "MULTI-RIB" ROOF PANEL
-"G" REPRESENTS McELROY METAL "MEGA-RIB" ROOF PANEL
-"S" REPRESENTS McELROY METAL "MEDALLION-LOK" 16" STANDING SEAM ROOF PANEL

STEP 2	ROOF PANEL		
	ROOF PANEL TYPE	☒ M	☐ G ☐ S

STEP 3: IDENTIFY THE S_s ACCELERATION (g) FOR YOUR PROJECT
-S_s VALUE DETERMINES THE REQUIRED SEISMIC DESIGN FORCES
-S_s VALUE DEPENDS ON THE PROJECTS GEOGRAPHICAL LOCATION (VALUES RANGE FROM 0.00 TO 3.73)
-FIND S_s VALUES FOR YOUR PROJECT ON THE USGS WEBSITE (SEARCH INTERNET FOR "USGS SEISMIC DESIGN MAPS")

STEP 3	PROJECT SITE - S _s ACCELERATION (g)	
		1.737

STEP 4: IDENTIFY THE S_s REGION FOR YOUR PROJECT
-THE REGIONS ARE DEPENDANT ON THE S_s VALUE DETERMINED IN STEP 3
-THE S_s REGION DICTATES THE MAXIMUM DEAD LOAD PERMITTED ON THE FRAME

STEP 4	S _s REGION		
	DESCRIPTION	S _s REGIONS	MAX DEAD LOAD
		0 < S _s <= 2.14	5 PSF
		2.14 < S _s <= 2.50	5 PSF
		2.50 < S _s <= 2.60	5 PSF

STEP 5: IDENTIFY THE ROOF DEAD LOAD FOR YOUR PROJECT
- THE ROOF DECK DEAD LOAD WILL ALWAYS BE INCLUDED
- THE COLLATERAL LOAD REPRESENTS ADDITIONAL LOAD THAT CAN BE SUPPORTED BY THE FRAME
- BE SURE THE TOTAL ROOF DEAD LOAD FOR YOUR PROJECT IS LESS THAN OR EQUAL TO THE MAX DEAD LOAD SHOWN IN STEP 4 FOR YOUR S_s VALUE
- S_s VALUE USED IN CALCULATION IS THE CAPPED S_{ds} (SEE DESIGN CRITERIA)

STEP 5	TOTAL ROOF DEAD LOAD		
		DEAD LOAD	EXAMPLES
	ROOF DECK	1.1 PSF	M=1.1PSF; G=1.2PSF; S=1.3PSF (SEE STEP 2)
	COLLATERAL	0 PSF	LIGHTNING,FIRE SUPPRESSION,SOLAR PANELS,ETC

STEP 6: IDENTIFY THE FOUNDATION REQUIREMENTS FOR YOUR PROJECT
-IDENTIFY SOIL CLASS FOR PROJECT SITE PER SITE SPECIFIC SOIL CONDITIONS
-USE THIS TO SELECT CORRECT FOUNDATION SIZE ON FOUNDATION SHEET
AREA OVER 4000 SQFT REQUIRES A GEOHAZARD REPORT

STEP 6	FOUNDATION REQUIREMENTS		
	[] GEOTECHNICAL REPORT NOT REQUIRED		☒ GEOTECHNICAL REPORT REQUIRED
	SOIL CLASS 5 (BEARING) 1500 PSF []	SOIL CLASS 4 (BEARING) 2000 PSF []	SOIL CLASS 3 (BEARING) 3000 PSF ☒
	SOIL CLASS 5 (LATERAL BEARING) 200 PSF/FT	SOIL CLASS 5 (LATERAL BEARING) 300 PSF/FT	SOIL CLASS 5 (LATERAL BEARING) 400 PSF/FT

STEP 7: SELECT MISCELLANEOUS OPTIONS FOR YOUR PROJECT
-MAXIMUM CLEAR HEIGHT IS 12'-0"; (SEE "ARCHITECTURAL VIEWS" SHEET FOR REFERENCE)
-MARK UP PC DRAWINGS WITH SIZE AND LOCATION OF CUTOUTS BEFORE SUBMITTING TO DSA

STEP 7	MISCELLANEOUS		
	CLEAR HEIGHT	DESIGN	OPTIONS
		[] 8' ☒ 10' [] 12'	[] (12' MAX)
		ELECTRICAL CUTOUTS	[] YES ☒ NO

STEP 8: SELECT APPLICABLE SHEET INDEX FOR YOUR PROJECT
-REFERENCE THE BASE FRAME (STEP 1) AND THE ROOF PANEL TYPE (STEP 2)
-IDENTIFY THE APPLICABLE SHEET INDEX

STEP 8	SHEET INDEX								
	BASE FRAME			RG 20			RG 30		
	ROOF PANEL TYPE	M	G	S	M	G	S	M	G
	SELECT ONE	[]	[]	[]	☒	[]	[]	[]	[]
	GENERAL NOTES	LS1.0	LS1.0	LS1.0	LS1.0	LS1.0	LS1.0	LS1.0	LS1.0
	FOUNDATION PLAN	LS2.0	LS2.0	LS2.0	LS3.0	LS3.0	LS3.0	LS4.0	LS4.0
	FRAMING PLAN	LS2.1	LS2.1	LS2.1	LS3.1	LS3.1	LS3.1	LS4.1	LS4.1
	FRAME CONNECTION DETAILS	LS2.1	LS2.1	LS2.1	LS3.1	LS3.1	LS3.1	LS4.1	LS4.1
	ROOFING LAYOUT & DETAILS	LS2.2	LS2.2	LS2.4	LS3.2	LS3.3	LS3.4	LS4.2	LS4.3
	MISC DESIGN OPTIONS	LS5.0	LS5.0	LS5.0	LS5.0	LS5.0	LS5.0	LS5.0	LS5.0

STEP 9: INCLUDE APPLICABLE SHEETS WITH YOUR DSA SUBMITTAL
-INCLUDE "MISC DESIGN OPTIONS" SHEET FOR PROJECTS WITHOUT ELECTRICAL CUTOUTS OR GUTTERS

STEP 10: IDENTIFY PROJECT NAME AND LOCATION		PROJECT NAME:	
VALLE LINDO ELEMENTARY		SCHOOL DISTRICT:	Pleasant Valley School District

STEP 11: CROSS OUT EXAMPLE 103 FORMS & INCORPORATE REQUIRED SPECIAL INSPECTIONS 103 FORMS THAT ARE PROJECT SPECIFIC

SITE SPECIFIC PARAMETERS

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

SNOW

p_g = 0 psf

p_i = 0 psf

C_e = 0 psf

WIND

V = 93 mph < XX mph

kt = 1 < 1

EXPOSURE: ☒ ☐ ☐

SEISMIC

☐ DESIGN BASED ON SITE CLASS D
NO GEOTECHNICAL INVESTIGATION REQUIRED

S_s = F_a = 1.2

☒ DESIGN BASED ON SITE CLASS DETERMINED PER CHAPTER 20 OF ASCE 7-16
GEOTECHNICAL INVESTIGATION PROVIDED

SITE CLASS: ☐ ☐ ☒ ☐

S_s = 1.737 F_a = 1.0 PER ASCE 7-16 SUPPL 3, TABLE 11.4-1

☐ DESIGN BASED ON SITE SPECIFIC GROUND MOTION HAZARD ANALYSIS
PER CHAPTER 21 OF ASCE 7-16
SHORT-PERIOD DESIGN SPECTRAL RESPONSE PARAMETER, S_{ds}, SHALL BE AS SPECIFIED IN GEOTECHNICAL INVESTIGATION
AREA OVER 4000 SQFT REQUIRES A GEOHAZARD REPORT

C_{gs} APPROVAL REQUIRED
NOT ELEGIBLE FOR OTC REVIEW

SITE CLASS: ☐ ☐ ☐

S_{ds} = F_a S_s = 1.16

☒ SITE CLASS: C or D: 0.7 x S_{ds}* = 0.7 x 1.16 = 0.812 < XXX

☐ SITE CLASS E: S_{ds} = < XXX

C_s = XXX USED IN DESIGN

SEISMIC DESIGN CATEGORY ☐ ☒ ☐

*SITE SPECIFIC S_{ds} VALUE BEFORE APPLYING REDUCTION
ALLOWED BY ASCE 7 SECTION 12.8.1.3

ABBREVIATIONS:			
ACI	AMERICAN CONCRETE INSTITUTE	MPH	MILES PER HOUR
AISC	AMERICAN INSTITUTE OF STEEL CONSTRUCTION	M	MULTI-RIB ROOF PANEL (McELROY)
ASM	ASSEMBLY (INTERNAL REFERENCE)	NTS	NOT TO SCALE
ASTM	AMERICAN SOCIETY FOR TESTING AND MAT'L S	NO	NUMBER
AWS	AMERICAN WELDING SOCIETY	OC	ON CENTER
CBC	CALIFORNIA BUILDING CODE	OSHA	OCCUPATIONAL HEALTH AND SAFETY ADMIN
CJP	COMPLETE JOINT PENETRATION	PCF	POUNDS PER CUBIC FOOT
CLR	CLEAR	PJ	PRETENSIONED JOINT
DEG	DEGREE	PLCS	PLACES
DIA	DIAMETER	PLT	PLATE
DIM	DIMENSION	PSF	POUNDS PER SQUARE FOOT
DSA	DIVISION OF THE STATE ARCHITECT	PSI	POUNDS PER SQUARE INCH
EQ	EQUAL	QTY	QUANTITY
FT	FEET	REF	REFERENCE
GA	GAGE	SQ	SQUARE
IN	INCHES	SS	STANDING SEAM ROOF PANEL (McELROY)
KSI	KIPS PER SQUARE INCH	TYP	TYPICAL
MAX	MAXIMUM	UNO	UNLESS NOTED OTHERWISE
MIN	MINIMUM	USGS	U.S. GEOLOGICAL SURVEY
MISC	MISCELLANEOUS	W/	WITH

ARCHITECTURAL REQUIREMENTS	
DESCRIPTION	DESIGN VAULES
TYPE OF CONSTRUCTION	II-B
OCCUPANCY CLASSIFICATION	A-3
NUMBER OF STORIES	1
FIRE SPRINKLER SYSTEM	NOT BY ICON/WEIGHT NOT INCLUDED IN DESIGN
MOST COMMON R220 MIN/MAX SQ.FT (SEE STEP 1)	480/2,080
MOST COMMON R630 MIN/MAX SQ.FT (SEE STEP 1)	720/3,120
MOST COMMON R640 MIN/MAX SQ.FT (SEE STEP 1)	960/4,160
AREA OVER 4000 SQFT REQUIRES GEOHAZARD REPORT	
ALLOWABLE AREA FOR II-B / A-3 IS 9500 SQ.FT	

RELATED BUILDING CODES AND STANDARDS

TITLE 24 CODES:

2022 CALIFORNIA ADMINISTRATIVE CODE (CAC).....(PART 1, TITLE 24, CCR)
2022 CALIFORNIA BUILDING CODE (CBC),PART 2, TITLE 24 CCR
2022 CALIFORNIA ELECTRICAL CODE.....(PART 3, TITLE 24, CCR)
2022 CALIFORNIA MECHANICAL CODE (CMC).....(PART 4, TITLE 24, CCR)
2022 CALIFORNIA PLUMBING CODE (CPC).....(PART 5, TITLE 24, CCR)
2022 CALIFORNIA ENERGY CODE.....(PART 6, TITLE 24, CCR)
2022 CALIFORNIA FIRE CODE (CFC)(PART 9, TITLE 24, CCR)
2022 CALIFORNIA GREEN BUILDING STANDARDS CODE.....(PART 11, TITLE 24, CCR)
2022 CALIFORNIA REFERENCE STANDARDS CODE.....(PART 12, TITLE 24, CCR)
TITLE 19 CCR, PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS

REFERENCE CODE SECTIONS FOR APPLICABLE STANDARDS:
2022 CBC, CHAPTER 35
2022 CFC, CHAPTER 80

SCOPE OF WORK NARRATIVE

THESE DRAWINGS ILLUSTRATE THE FABRICATION AND INSTALLATION REQUIREMENTS FOR A FREE-STANDING PREFABRICATED STEEL SHADE STRUCTURE. THE ENTIRE STRUCTURAL SYSTEM IS COMPRISED OF HOLLOW STRUCTURAL STEEL MEMBERS SUPPORTED BY CONCRETE FOUNDATIONS. THE FLEXIBILITY INCLUDED HEREIN ALLOWS THE STRUCTURE TO COMPLY WITH A WIDE VARIETY OF PROJECT SITES AND LOADING REQUIREMENTS.

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

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT

APP: 03-123817 INC:

REVIEWED FOR

SS ☒ FLS ☒ ACS ☒

DATE: 03/07/2025

ICON STD RG/DSA-PC

DRAWN BY: JD

DATE: 3/21/2023

REV

REV DATE

JRMA

ARCHITECTS ENGINEERS

2700 SATURN ST#1800, CA 92821

1.714.524.1870 F. 714.524.1875

WWW.JRMA.COM

Professional Engineer

State of California

Aug 31, 2023

APPROVED

DIV. OF THE STATE ARCHITECT

APP: 04-122188 PC

REVIEWED FOR

SS ☒ FLS ☒ ACS ☒ CG ☐

DATE: 09/21/2023

GENERAL INFO

ICON Shelter Systems Inc

DISTINCTIVE STEEL SHELTERS

WWW.ICONSHelters.COM

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1455 LINCOLN AVE

HOLLAND MI, 49423

616.396.0919

800.748.0985

616.396.0944 FX

LS1.0

GENERAL:

1. GENERAL NOTES AND TYPICAL DETAILS SHALL APPLY TO ALL PARTS OF THE JOB EXCEPT WHERE THEY MAY CONFLICT WITH DETAILS AND NOTES ON OTHER SHEETS. WHERE CONDITIONS ARE NOT SPECIFICALLY INDICATED BUT ARE OF SIMILAR CHARACTER TO DETAILS SHOWN, SIMILAR DETAILS OF CONSTRUCTION SHALL BE USED SUBJECT TO REVIEW BY THE STRUCTURAL ENGINEER FOR THIS PROJECT.
2. WORK SHALL CONFORM TO THE REQUIREMENTS, AS AMENDED TO DATE, OF THE LATEST ADOPTED EDITION OF THE CBC, C.A.C., TITLE 24, AND ALL STATE AND FEDERAL REGULATIONS.
3. OMISSIONS OR CONFLICTS BETWEEN THE VARIOUS ELEMENTS OF THE WORKING DRAWINGS AND/OR SPECIFICATIONS SHALL BE BROUGHT TO THE ATTENTION OF THE STRUCTURAL ENGINEER FOR THIS PROJECT PRIOR TO PROCEEDING WITH ANY WORK INVOLVED.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THE WORK OF ALL TRADES AND SHALL CHECK ALL DIMENSIONS, ALL DISCREPANCIES SHALL BE CALLED TO THE ATTENTION OF THE STRUCTURAL ENGINEER FOR THIS PROJECT AND BE RESOLVED BEFORE PROCEEDING WITH THE WORK.
5. THESE CONSTRUCTION DRAWINGS AND SPECIFICATIONS REPRESENT THE FINISHED STRUCTURE AND DO NOT INDICATE THE METHOD OF CONSTRUCTION. THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK AND SHALL BE SOLELY RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES, INCLUDING, BUT NOT LIMITED TO, BRACING, TEMPORARY SUPPORTS, AND SHORING. OBSERVATION VISIT TO THE SITE BY FIELD REPRESENTATIVES OF THE ARCHITECT/ENGINEER SHALL NOT INCLUDE INSPECTIONS OF THE PROTECTIVE MEASURES OR THE CONSTRUCTION PROCEDURES. ANY SUPPORT SERVICES PERFORMED BY THE ARCHITECT/ENGINEER DURING THE CONSTRUCTION SHALL BE DISTINGUISHED FROM CONSTRUCTION AND DETAILED INSPECTION SERVICES WHICH ARE FURNISHED BY OTHERS. THESE SUPPORT SERVICES PERFORMED BY THE ARCHITECT/ENGINEER, WHETHER OF MATERIAL OR WORK, ARE FOR THE PURPOSE OF ASSISTING IN QUALITY CONTROL AND IN ACHIEVING CONFORMANCE WITH CONTRACT DOCUMENTS, BUT DO NOT GUARANTEE CONSTRUCTION.
6. ASTM DESIGNATIONS AND ALL STANDARDS REFER TO THE LATEST AMENDMENTS, EXCEPT AS AMENDED BY CBC CHAPTER 35.
7. CONFORM TO APPLICABLE CAL/OSHA CONSTRUCTION SAFETY REGULATIONS FOR ALL WORK PERFORMED DURING CONSTRUCTION. JOB SITE SAFETY IS STRICTLY THE RESPONSIBILITY OF THE CONTRACTOR AND NOT THE ARCHITECT/ENGINEER OR OWNER.
8. THE ENGINEER AND THEIR CONSULTANTS SHALL HAVE NO RESPONSIBILITY FOR THE DISCOVERY, HANDLING, REMOVAL OR DISPOSAL OF HAZARDOUS MATERIALS AT THE PROJECT SITE, INCLUDING BUT NOT LIMITED TO ASBESTOS, ASBESTOS PRODUCTS, POLYCHLORINATED BIPHENYL (PCB) OR OTHER TOXIC SUBSTANCES.
9. SHOULD ANY CONDITIONS DEVELOP NOT COVERED BY THE CONTRACT DOCUMENTS, OR IF A CHANGE IN THE SCOPE OF WORK IS PROPOSED, A CONSTRUCTION CHANGE DOCUMENT DETAILING AND SPECIFYING THE REQUIRED CHANGE(S) SHALL BE SUBMITTED TO AND APPROVED BY DSA BEFORE PROCEEDING WITH THE WORK.
10. THE SCHOOL DISTRICT INSPECTOR ON RECORD SHALL INSPECT AND APPROVE THE ERECTED FRAME PRIOR TO ROOF INSTALLATION.
11. SEE REQUIREMENTS FOR LOCATION IN ANY FIRE HAZARD SEVERITY ZONE FOR WILDLAND URBAN INTERFACE AREAS (WUI) AS SPECIFIED IN THE APPLICABLE VERSION OF THE CALIFORNIA BUILDING CODE. PROVIDE PROTECTION AND DETAILS OF ALL AREAS COMPLYING WITH THE WUI REQUIREMENTS. SEE CBC CHAPTER 7A FOR REQUIREMENTS.
12. LOCATING THIS STRUCTURE CLOSER THAN 20 FEET TO OTHER STRUCTURES MAY AFFECT THE ALLOWABLE AREA FOR THE EXISTING CONSTRUCTION PER THE APPLICABLE VERSION OF THE CALIFORNIA BUILDING CODE.
13. MEWS AND DETAILS ARE NOT DRAWN TO SCALE (UNLESS NOTED OTHERWISE). DO NOT SCALE THESE DRAWINGS.

STRUCTURAL AND MISCELLANEOUS STEEL:

1. ALL STRUCTURAL STEEL SHALL BE DETAILED, FABRICATED AND ERECTED IN ACCORDANCE WITH THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC) SPECIFICATION MANUAL REFERENCED BY THE LATEST EDITION OF THE CALIFORNIA BUILDING CODE.
2. PIPE SECTIONS SHALL CONFORM TO ASTM A53, Fy = 35 KSI, GRADE B OR A501 UNLESS NOTED OTHERWISE.
3. STRUCTURAL TUBING (HSS SHAPES) SHALL CONFORM TO ASTM A-500, GRADE B (OR C), Fy = 46 KSI MIN.
4. IF MATERIAL AVAILABILITY IS LIMITED, MEMBER THICKNESS CAN BE INCREASED BEYOND WHAT IS SHOWN IN THESE DRAWINGS (MAXIMUM INCREASE OF 1/8").
5. ALL CHANNELS, ANGLES, AND MISC. STEEL SHALL CONFORM TO ASTM A-36, Fy = 36 KSI.
6. ALL PLATE STEEL SHALL CONFORM TO ASTM A-572, Fy= 50 KSI.
7. ALL COLD FORM STEEL SHALL CONFORM TO ASTM A-653, CS = TYPE B, Fy = 50 KSI Fu = 65 KSI
8. STRUCTURAL STEEL AND DECK SHALL BE IDENTIFIED FOR CONFORMITY PER CBC 2202A.1.
9. ALL ROOF DECKS SHALL HAVE KYNAR 500 METAL COATING.
10. ALL ROOF DECKS SHALL CONFORM TO ASTM A-792, Fy = 50 KSI.
11. ALL BASE CONNECTIONS ARE A PART OF THE LATERAL FORCE RESISTING SYSTEM

NOTICE OF DISCLAIMER FOR STRUCTURAL ENGINEERING RESPONSIBILITY

1. PER TITLE 24, PART 1, SECTION 4-316(e) OF THE CALIFORNIA CODE OF REGULATIONS, THIS NOTICE SHALL BE GIVEN TO DSA PRIOR TO THE APPROVAL OF PLANS AND SPECIFICATIONS.
2. FOR THE SITE SPECIFIC PROJECT, J. R. MILLER & ASSOCIATES IS NOT THE DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE.
3. FOR THE SITE SPECIFIC PROJECT, J.R. MILLER & ASSOCIATES' RESPONSIBILITY IS LIMITED TO THE PREPARATION OF THE PLANS AND SPECIFICATIONS FOR THE SHELTERS OF THIS PC ONLY.
4. STRUCTURAL OBSERVATION OF CONSTRUCTION IS SPECIFICALLY EXCLUDED FROM J.R. MILLER & ASSOCIATES' RESPONSIBILITY FOR THE SITE SPECIFIC PROJECT.
5. ALL CONSTRUCTION ACTIVITIES RELATED TO STRUCTURAL ENGINEERING SHALL BE DELEGATED TO A QUALIFIED ENGINEER BY THE DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE. THESE ACTIVITIES INCLUDE BUT ARE NOT LIMITED TO, STRUCTURAL OBSERVATION OF CONSTRUCTION, REVIEW OF INSPECTION REPORTS, AND SIGNING OFF OF THE VERIFIED REPORT FOR COMPLETED WORK.
6. J.R. MILLER & ASSOCIATES WILL BE RESPONSIBLE FOR RESPONDING TO QUESTIONS PERTAINING TO THE PLANS AND SPECIFICATIONS FOR THE SHELTERS OF THIS PC WHICH ARISE DURING PLAN REVIEW AND CONSTRUCTION.

CONSTRUCTION NOTES

1. A DSA-CERTIFIED CLASS 3 (MINIMUM) PROJECT INSPECTOR IS REQUIRED FOR THIS PROJECT.
2. 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.
3. A "DSA CERTIFIED" PROJECT INSPECTOR EMPLOYED BY THE DISTRICT (OWNER) AND APPROVED BY DSA SHALL PROVIDE CONTINUOUS INSPECTION OF WORK. THE DUTIES OF THE INSPECTOR ARE DEFINED IN SECTION 4-342, PART 1, TITLE 24, CCR.
4. A DSA ACCEPTED TESTING LABORATORY DIRECTLY EMPLOYED BY THE DISTRICT (OWNER) SHALL CONDUCT ALL THE REQUIRED TESTS AND INSPECTIONS FOR THE PROJECT.
5. THE INTENT OF THESE DRAWINGS AND SPECIFICATIONS ARE THAT ALL 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)
6. GRADING PLANS, DRAINAGE IMPROVEMENTS, ROAD AND ACCESS REQUIREMENTS AND ENVIRONMENTAL HEALTH CONSIDERATIONS SHALL COMPLY WITH ALL LOCAL ORDINANCES

WELDING:

1. ALL WELDING SHALL COMPLY WITH AWS D1.1 SPECIFICATIONS AND SHALL BE DONE BY AWS QUALIFIED WELDERS CERTIFIED FOR THE TYPE OF WELDING TO BE PERFORMED AS REQUIRED BY DSA.
2. ALL WELDING SHALL BE DONE BY GAS METAL ARC PROCESS WITH E70XX ELECTRODES. FLUX CORE ARC WELD SHALL CONFORM TO CHARPY NOTCH TOUGHNESS RATING OF 20 ft-lb @ (0° F).
3. ALL WELDING SHALL BE DONE IN THE SHOP WITH REQUIRED INSPECTION, PRE-APPROVED BY DSA, TO ENSURE PROPER MATERIAL ID AND WELDING.
4. WELD FILLER METAL MANUFACTURER SHALL PROVIDE WRITTEN CERTIFICATION OF COMPLIANCE WITH CODE AND SPECIFICATIONS.

BOLTING:

1. ALL BOLTS SHOWN ON THESE DRAWINGS ARE HOT DIPPED GALVANIZED ASTM F3125 GRADE A325 HIGH STRENGTH BOLTS (UNO), WITH THE NUTS CONFORMING TO HOT DIPPED GALVANIZED ASTM A-563 GRADE DH.
2. HIGH STRENGTH BOLTS SHALL BE VERIFIED AND INSPECTED PER CBC 1705A2.1.
3. BEFORE ERECTING THE FRAME, VERIFY ALL BOLTS AND NUTS ARE CLEAN OF DEBRIS AND BURRS -- INCLUDING THE HARDWARE ALREADY FASTENED INSIDE THE MEMBERS. CHASING SOME OF THE BOLTS AND NUTS MAY BE REQUIRED.
4. HARDENED STEEL WASHERS SHALL CONFORM TO ASTM F-436.
5. THE BOLTING INSTALLATION REQUIREMENTS OUTLINED BELOW ARE CRITICAL TO THE STRUCTURE'S DESIGN AND PERFORMANCE. THE INSTALLER IS REQUIRED TO COORDINATE THIS PHASE OF CONSTRUCTION WITH THE SPECIAL BOLTING INSPECTOR AND THE INSPECTOR OF RECORD PRIOR TO THE ERECTION OF THE FRAME. BE INSTALLED AND INSPECTED PER THE APPLICABLE VERSION OF AISC'S USING HIGH-STRENGTH BOLTS", CBC 1705A.2.1; AISC 341-16 J7; AISC 360-16 N5.6.

APRETENSIONED JOINTS MUST BE INSTALLED AND INSPECTED TO MEET ONE OF THE FOLLOWING REQUIREMENTS:
 1. TURN-OF-NUT PRETENSIONING: PER SECTION 8.2.1 OF THE SPECIFICATION FOR STRUCTURAL JOINTS USING HIGH STRENGTH BOLTS, WASHERS ARE NOT REQUIRED FOR THIS METHOD, THE NUT OR HEAD SHALL BE ROTATED AS SPECIFIED IN TABLE 8.2. THE PART NOT TURNED SHALL BE PREVENTED FROM ROTATING.
 2. CALIBRATED WRENCH: PER THE SPECIFICATION FOR STRUCTURAL JOINTS USING HIGH STRENGTH BOLTS, WASHERS ARE REQUIRED (NOT SUPPLIED BY ICON) THESE SHALL BE INSTALLED PER THE INSTALLATION TORQUE DETERMINED IN THE PRE-INSTALLATION VERIFICATION OF THE FASTENER ASSEMBLY PER SECTION 7. THE PART NOT TURNED SHALL BE PREVENTED FROM ROTATING.
 3. IDENTIFIED ON THE FRAME CONNECTION DETAILS WITH "PT REQUIRED"

B) ALL OTHER JOINTS MUST BE INSTALLED AND INSPECTED TO MEET THE REQUIREMENTS OF THE SNUG-TIGHTENED JOINTS. SNUG TIGHT CONDITION EXISTS WHEN ALL PUES IN A CONNECTION HAVE BEEN PULLED INTO FIRM CONTACT BY THE BOLTS IN THE JOINT AND ALL OF THE BOLTS IN THE JOINT HAVE BEEN TIGHTENED SUFFICIENTLY TO PREVENT REMOVAL OF THE NUTS WITHOUT THE USE OF A WRENCH.

FOUNDATIONS:

1. ALLOWABLE SOIL PRESSURES ASSUME CLASS 5 SOIL CLASSIFICATION PER CBC TABLE 1806A, UNLESS NOTED OTHERWISE. PASSIVE PRESSURE IS ASSUMED TO START 12" BELOW TOP OF FOOTING.
2. PER CBC SECTION 1803A.2, GEOTECHNICAL REPORTS ARE NOT REQUIRED FOR ONE-STORY LIGHT-STEEL FRAME BUILDINGS OF TYPE II CONSTRUCTION AND 4,000 SQUARE FOOT OR LESS IN FLOOR AREA AND NOT LOCATED WITHIN EARTHQUAKE FAULT ZONESOR SIEISMIC HAZARD ZONES AS SHOWN ON THE MOST RECENT MAPS PUBLISHED BY THE CGS. ALLOWABLE FOUNDATION AND LATERAL SOIL PRESSURE VALUES MAY BE DETERMINED FROM TABLE 1806A.2.
3. FILL AND BACKFILL SHALL BE COMPACTED TO 95% OF MAX. DENSITY IN ACCORDANCE WITH ASTM TEST METHOD D-1557 OR AS RECOMMENDED BY THE GEO-TECH ENGINEER. FLOODING NOT PERMITTED.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL SHORINGS, ETC. NECESSARY TO SUPPORT CUT AND/OR FILL BANKS DURING EXCAVATION, AND FORMING AND PLACEMENT OF CONCRETE.
5. MINIMUM SETBACK FROM TOE OF SLOPE ON AN ASCENDING SLOPE SHALL BE 15 FEET AND MINIMUM SETBACK FROM TOE OF SLOPE ON A DESCENDING SLOPE SHALL BE 40 FEET.
6. PER CBC SECTION 1803A.6, GEOHAZARD REPORTS ARE NOT REQUIRED FOR ONE-STORY LIGHT-STEEL FRAME BUILDINGS OF TYPE II CONSTRUCTION AND 4,000 SQUARE FOOT OR LESS IN FLOOR AREA AND NOT LOCATED WITHIN EARTHQUAKE FAULT ZONESOR SIEISMIC HAZARD ZONES AS SHOWN ON THE MOST RECENT MAPS PUBLISHED BY THE CGS.
7. GEOHAZRD REPORTS ARE TO COMPLY WITH DSA IR A-4 PER IR-7 SECTION 1.8
8. SITE SPECIFIC GEOTECHNICAL REPORT IS REQUIRED AT THE TIME OF SITE APPLICATION IF USING OTHER THAN CLASS 5 SOIL, PER DSA IR PC-7
9. LATERAL BEARING HAS BEEN INCREASED PER CBC 1806A.3.4 FOR THE 1/2" DEFLECTION & HAS BEEN DESIGNED FOR P-DELTA EFFECTS. NO 1/3 INCREASE HAS BEEN APPLIED.
10. MINIMUM CLEARANCE BETWEEN PIERS SHALL BE 8'-0".

CONCRETE:

1. MIX DESIGN REQUIREMENTS: (NORMAL WEIGHT CONCRETE)

STRENGTH P _c (28 DAYS)	W/C RATIO (NON-AIR ENTRAINED)	W/C RATIO (AIR ENTRAINED)	SUMP (±1")	UNIT WEIGHT (NORMAL WEIGHT)
5000 PSI	0.44	0.35	3"	150 PCF

2. CONCRETE MIX DESIGN PARAMETERS ARE GOOD FOR EXPOSURE CATEGORIES F0, F1 & F2. THE AIR ENTRAINMENT FOR THESE CATEGORIES SHALL BE AS FOLLOWS: F0-0, F1-4.5, F2-6
3. CHANGES TO THE MIX DESIGN MUST BE APPROVED BY THE ENGINEER OR ARCHITECT OF RECORD AND DSA.
4. AGGREGATES SHALL CONFORM TO THE ASTM C-33 WITH PROVEN SHRINKAGE CHARACTERISTICS OF LESS THAN 0.005. MAX AGGREGATE SIZE = 1".
5. CEMENT SHALL CONFORM TO ASTM C-150 (TYPE V) UNLESS NOTED OTHERWISE ON THE DRAWINGS.
6. CONCRETE SHALL BE MAINTAINED IN A MOIST CONDITION FOR A MINIMUM OF FIVE DAYS AFTER PLACEMENT. ALTERNATE METHODS WILL BE APPROVED IF SATISFACTORY PERFORMANCE CAN BE ASSURED.
7. CONCRETE SHALL NOT FREE FALL MORE THAN FIVE FEET.
8. CONCRETE DURABILITY SHALL BE PER CBC 1904A.1 ACI 318-19, CHAPTER 19.
9. CONCRETE SHALL BE TESTED PER CBC 1903A, TABLE 1705A.3. AND ACI 318-19, SECTION 26.12.
10. NO ADMXTURE SHALL CONTAIN CALCIUM CHLORIDE.

REINFORCING STEEL:

1. REINFORCING STEEL SHALL BE DEFORMED STEEL CONFORMING TO THE REQUIREMENTS OF ASTM A-615, AS FOLLOWS:

GR 60: (#4 BARS AND LARGER)

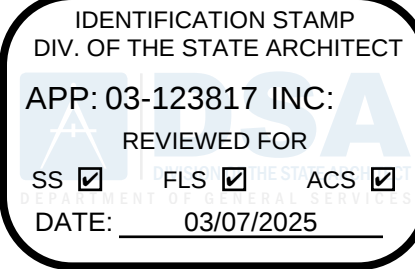
GR 40: (#3 BARS)
2. DETAILING, FABRICATION, AND ERECTION OF REINFORCING BARS SHALL CONFORM TO THE ACI "MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCING CONCRETE STRUCTURES."
3. MIN. COVER FOR CAST-IN-PLACE CONCRETE SHALL BE AS FOLLOWS:

A. CAST AGAINST EARTH3"
B. CAST AGAINST FORM BELOW GRADE2"
C. FORMED SLABS (#11 BAR & SMALLER).....3/4"
D. SLABS ON GRADE (FROM TOP OF SLAB)1"
4. BARS SHALL BE CLEAN OF RUST, GREASE OR OTHER MATERIAL LIKELY TO IMPAIR BOND. BENDS SHALL BE MADE COLD.
5. REINFORCING SHALL BE LAP SPICED PER ACI 318-19, SECTION 25.5.
6. PRIOR TO PLACING OF CONCRETE, REINFORCING STEEL AND EMBEDDED ITEMS SHALL BE WELL SECURED IN POSITION.
7. WELDING OF REINFORCING IS NOT ALLOWED.
8. REINFORCING STEEL SHALL BE INSPECTED PER CBC 1705A.3.

POWDER-COAT FINISH SYSTEM:

ALL BUILDINGS THAT HAVE A POWDER-COATED FINISH SHALL MEET THE FOLLOWING SPECIFICATIONS:

1. THE STEEL FRAME (HSS SECTIONS, COLD FORMED & PLATE STEEL) SHALL BE SHOT-BLASTED TO A NEAR WHITE CONDITION PER SSPC-10 SPECIFICATIONS.
2. THE STEEL SHALL BE WASHED IN A ZINC PHOSPHATE IN AN MINIMUM THREE STAGE ELECTRO DEPOSITION PRE-TREATEMENT PROCESS.
3. IMMEDIATELY FOLLOWING PRE-TREATMENT THE STEEL SHALL BE TOTALLY COATED IN AN EPOXY PRIMER TO A UNIFORM THICKNESS OF A MINIMUM OF 0.7 TO 0.9 MILS. THE E-COATING SHALL PROVIDE A MINIMUM OF 1000 HOURS OF SALT SPRAY CORROSION PROTECTION TO THE STEEL.
4. THE STEEL SHALL THEN HAVE A TIG POLYESTER COLOR COAT APPLIED OVER THE E-COATED SURFACE.
5. THE FINISH THICKNESS OF THESE APPLICATIONS SHALL BE A MINIMUM OF 8 TO 12 MILS.
6. ALL CARBON STEEL MEMBERS (COLUMNS, BEAMS, PLATES & COLD FORMED STEEL ETC.) NOT POWDER-COATED SHALL BE PAINTED WITH PRIME COAT PER THE "AISC CODE OF STANDARD PRACTICE" AND THE "AISC SPECIFICATION SECTION M3(UNLESS NOTED OTHERWISE).



ICON STD RG/DSA-PC

DRAWN BY JD

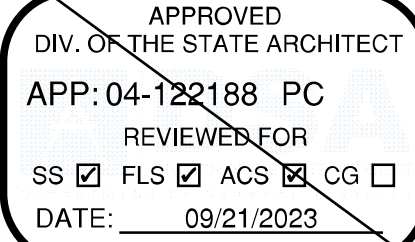
DATE 3/21/2023

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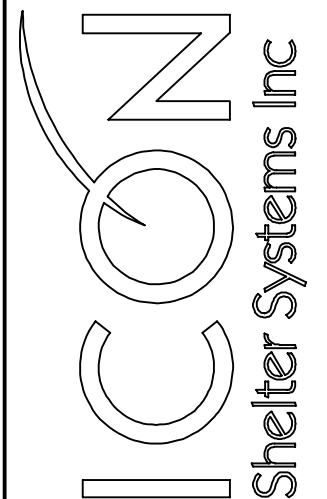
REV DATE



Aug 31, 2023



GENERAL INFO



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HOLLAND MI, 49423

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LS1.1

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

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

Application Number: 04-122188 DSA File Number:	School Name: PC Update Increment Number:	School District: PC Update Date Created: 2023-04-19 08:36:32
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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	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 CBC Section 4-335.
Periodic – Indicates that a periodic special inspection is required	PI (Project Inspector) – Indicates that the special inspection may be performed by a project inspector when specifically approved by DSA.
Test – Indicates that a test is required	SI (Special Inspection) – Indicates that the special inspection shall be performed by an appropriately qualified/approved special inspector.

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

Table 1705A.6, Table 1705A.7, Table 1705A.8		
Application Number: 04-122188 DSA File Number:	School Name: PC Update Increment Number:	School District: PC Update Date Created: 2023-04-19 08:36:32

Test or Special Inspection	Type	Performed By	Code References and Note
☐ 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:				
	Test or Special Inspection	Type	Performed By	Code References and Notes
☐	a. Placement, compaction and inspection of backfill.	Continuous	GE*	1705A.6.1. * By geotechnical engineer or his or her qualified representative. (See section S2 above).
☐	b. Placement of soil reinforcement and/or drainage devices.	Continuous	GE*	* By geotechnical engineer or his or her qualified representative.
☐	c. Segmental retaining walls; inspect placement of units, dowels, connectors, etc.	Continuous	GE*	* By geotechnical engineer or his or her qualified representative. See DSA IR 18-2.
☐	d. Concrete retaining walls.	Provide tests and inspections per CONCRETE section below.		
☐	e. Masonry retaining walls.	Provide tests and inspections per MASONRY section below.		

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:
04-122188	PC Update	PC Update
DSA File Number:	Increment Number:	Date Created:
		2023-04-19 08:36:32

Test or Special Inspection	Type	Performed By	Code References and Notes
☐ c. Verify in-situ 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.
☐ d. 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
☐	a. Inspect fabrication of precast concrete members.	Continuous	SI	ACI 318-19 Section 26.13.
☐	b. Inspect erection of precast concrete members.	Periodic	SI*	Table 1705A.3 Item 10. * May be performed by PI when specifically approved by DSA.
☐	c. 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
☐	d. 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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DSA 103-22: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS (SOILS), 2022 CBC

Table 1705A.6, Table 1705A.7, Table 1705A.8		
Application Number: 04-122188 DSA File Number:	School Name: PC Update Increment Number:	School District: PC Update Date Created: 2023-04-19 08:36:32

Geotechnical Reports: Project has a geotechnical report, or CDs 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) 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 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) 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.)

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

Table 1705A.6, Table 1705A.7, Table 1705A.8		
Application Number: 04-122188 DSA File Number:	School Name: PC Update Increment Number:	School District: PC Update Date Created: 2023-04-19 08:36:32

S6. OTHER SOILS:				
	Test or Special Inspection	Type	Performed By	Code References and Notes
☐	a. Soil Improvements	Test	GE*	Submit a comprehensive report documenting final soil improvements constructed, construction observation and the results of the confirmation testing and analysis to CGS (California Geological Survey) for final acceptance. * By geotechnical engineer or his or her qualified representative.
☐	b. Inspection of Soil Improvements	Continuous	GE*	* By geotechnical engineer or his or her qualified representative.
☐	c.			

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: 04-122188 DSA File Number:	School Name: PC Update Increment Number:	School District: PC Update Date Created: 2023-04-19 08:36:32

C4. SHOTCRETE (IN ADDITION TO SECTION C1):			
Test or Special Inspection	Type	Performed By	Code References and Notes
☐ a. 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 506R-16.
☐ b. Sample and test shotcrete (f _c).	Test	LOR	1908A.2, 1705A.3.9

C5. POST-INSTALLED ANCHORS:			
Test or Special Inspection	Type	Performed By	Code References and Notes
☐ a. 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.
☐ b. 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
☐ a.			

DIVISION OF THE STATE ARCHITECT DGS DSA 103-22 (Revised 12/01/2022)	DEPARTMENT OF GENERAL SERVICES Page 8 of 19	STATE OF CALIFORNIA
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DSA 103-22: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS (SOILS), 2022 CBC

Table 1705A.6, Table 1705A.7, Table 1705A.8		
Application Number: 04-122188 DSA File Number:	School Name: PC Update Increment Number:	School District: PC Update Date Created: 2023-04-19 08:36:32

S3. DRIVEN DEEP FOUNDATIONS (PILES):				
Test or Special Inspection		Type	Performed By	Code References and Notes
☐	a. Verify pile materials, sizes and lengths comply with the requirements.	Continuous	GE*	* By geotechnical engineer or his or her qualified representative.
☐	b. Determine capacities of test piles and conduct additional load tests as required.	Test	LOR*	* Under the supervision of the geotechnical engineer.
☐	c. Inspect driving operations and maintain complete and accurate records for each pile.	Continuous	GE*	* By geotechnical engineer or his or her qualified representative.
☐	d. Verify locations of piles and their 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 butt elevations and record any pile damage.	Continuous	GE*	* By geotechnical engineer or his or her qualified representative.
☐	e. Steel piles.	Provide tests and inspections per STEEL section below.		
☐	f. Concrete piles and concrete filled piles.	Provide tests and inspections per CONCRETE section below.		
☐	g. For specialty piles, perform additional inspections as determined by the registered design professional in responsible charge.	*	*	* As defined on drawings or specifications.

S4. CAST-IN-PLACE DEEP FOUNDATIONS (PIERS):				
	Test or Special Inspection	Type	Performed By	Code References and 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.)

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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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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):			
Test or Special Inspection	Type	Performed By	Code References and Notes
☐ a. Sample and test prestressing tendons and anchorages.	Test	LOR	1705A.3.4, 1910A.3
☐ b. Inspect placement of prestressing tendons.	Periodic	SI	1705A.3.4, Table 1705A.3 Items 1 & 9.

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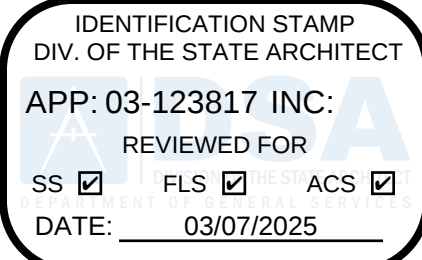
DSA 103-22: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS (STEEL AND ALUMINUM), 2022 CBC

1705A.2.1, Table 1705A.2.1; AISI 303-16, AISI 341-16, AISI 358-16, AISI 360-16; AISI 5100-20; RCSC 2014; AWS D1.1, AWS D1.2, AWS D1.3, AWS D1.4, AWS D1.8		
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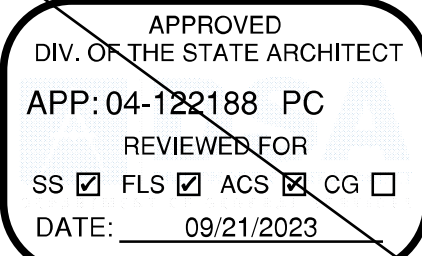
S/A1. STRUCTURAL STEEL, COLD-FORMED STEEL AND ALUMINUM USED FOR STRUCTURAL PURPOSES			
Test or Special Inspection	Type	Performed By	Code References and Notes
☒ a. Verify identification of all materials and: • Mill certificates indicate material properties that comply with requirements. • Material sizes, types and grades comply with requirements.	Periodic	*	Table 1705A.2.1 Items 3a–3c, 2202A.1; AISI 5100-20 Section A3.1 & A3.2, AISI 5240-20 Section A3 & A5, AISI 5220-20 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:				
	Test or Special Inspection	Type	Performed By	Code References and Notes
[2]	a. 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; ASCE 360-16 Section A3.3, J3.1, and N3.2; RCSC 2014 Section 1.5 & 2.1; DSA IR 17-8 & DSA IR 17-9.
[2]	b. 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.
[2]	c. Bearing-type ("snug tight") connections.	Periodic	SI	Table 1705A.2.1 Item 2a, 1705A.2.6, 2204A.2; ASCE 360-16 J3.1, J3.2, M2.5 & N5.6; RCSC 2014 Section 9.1; DSA IR 17-9.
[2]	d. Pretensioned and slip-critical connections.	*	SI	Table 1705A.2.1 Items 2b & 2c, 1705A.2.6, 2204A.2; ASCE 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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DSA 103



LS1.2

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

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

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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.	

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 17-3. 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.	

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

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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
☐	a. 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.
☐	b. Test density.	Test	LOR	1705A.15.1, 1705A.15.5, ASTM E736
☐	c. 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	
☒ 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.	
☐ 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:				
Test or Special Inspection	Type	Performed By	Code References and Notes	
☐ a. Materials used, to verify compliance with one or more of the material test reports in accordance with the approved construction documents.	Periodic	SI	Table 1705A.13.7	
☐ b. Fabricated storage rack elements.	Periodic	SI	1704A.2.5; Table 1705A.13.7	

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

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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:	
☐	1. Deep foundations acting as a cantilever footing with a design based on minimum allowable pressures per CBC Table 1806A.2 and without a geotechnical report for the following cases: A) free standing sign or scoreboard, B) cell or antenna towers and poles less than 35'-0" tall (e.g., lighting poles, flag poles, poles supporting open mesh fences, etc.), C) single-story structure with dead load less than 5 psf (e.g., open fabric shade structure), or D) covered walkway structure with an apex height less than 10'-0" above adjacent grade.
☐	2. Shallow foundations, etc. are exempt from special inspections and testing by a Geotechnical Engineer for the following cases: A) buildings without a geotechnical report and meeting the exception item #1 criteria in CBC Section 1803A.2 supported by native soil (any excavation depth) or fill soil (not exceeding 12" depth per CBC Section 1804A.6), B) soil scarification/recompaction not exceeding 12" depth, C) native or fill soil supporting exterior non-structural flatwork (e.g., sidewalks, site concrete ramps, site stairs, parking lots, driveways, etc.), D) unpaved landscaping and playground areas, or E) utility trench backfill.

CONCRETE/MASONRY:	
☐	1. Post-installed anchors for the following: A) exempt non-structural components (e.g., mechanical, electrical, plumbing equipment - see item 7 for "Welding" in the Appendix below) given in CBC Section 1617A.1.18 (which replaces ASCE 7-16, Section 13.1.4) or B) interior nonstructural wall partitions meeting criteria listed in exempt item 3 for "Welding" in the Appendix below
☐	2. Concrete batch plant inspection is not required for items given in CBC Section 1705A.3.3.2 subject to the requirements and limitations in that section.
☐	3. Non-bearing non-shear masonry walls may be exempt from certain DSA masonry testing and special inspection items as allowed per DSA IR 21-1. Refer to construction documents for specific exemptions accordingly for each applicable wall condition.
☐	4. Epoxy shear dowels in site flatwork and/or other non-structural concrete.

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

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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
☐	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 (AISC 341-16 as applicable); DSA IR 17-3.
☐	b. Inspect single-pass fillet welds ≤ 5/16".	Periodic	SI	Table 1705A.2.1 Item 5a.5; AISC 360-16 (AISC 341-16 as applicable); DSA IR 17-3.
☐	c. Inspect end-welded studs (ASTM A-108) installation (including bend test).	Periodic	SI	2213A.2; AISC 360-16 (AISC 341-16 as applicable); AWS D1.1; DSA IR 17-3.
☐	d. Inspect floor and roof deck welds.	Periodic	SI	1705A.2.2, Table 1705A.2.1 Item 5a.6; AISC 360-16 (AISC 341-16 as applicable); AWS D1.3; DSA IR 17-3.
☐	e. 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.
☐	f. Inspect welding of stairs and railing systems.	Periodic	SI*	1705A.2.1; AISC 360-16 (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.
☐	g. Verification of reinforcing steel weldability.	Periodic	SI	1705A.3.1; AWS D1.4; DSA IR 17-3. Verify carbon equivalent reported on mill certificates.
☐	h. 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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Test or Special Inspection	Type	Performed By	Code References and Notes	
☐ c. Storage rack anchorage installation.	Periodic	SI	ANSI/MHI 6.1 Section 7.3.2; Table 1705A.13.7	
☐ d. 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	
☐ a.				

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

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CONCRETE/MASONRY:	
☐	5. Testing of reinforcing bars is not required for items given in CBC Section 1910A.2 subject to the requirements and limitations in that section.
WELDING:	
☐	1. Solid-clad and open-mesh fences, gates with maximum leaf span of 10', and gates with a maximum rolling section of 10' all having an apex height less than 8'-0" above lowest adjacent grade. When located above circulation or occupied space below, these gates/fences are not located within 1.5x gate/fence height (max 8'-0") to the edge of floor or roof.
☐	2. Handrails, guardrails, and modular or relocatable ramps associated with walking surfaces less than 30" above adjacent grade (excluding post base connections per the "Exception" language in Section 1705A.2.1); fillet welds shall not be ground flush.
☐	3. Non-structural interior cold-formed steel framing spanning less than 15'-0", such as in interior partitions, interior soffits, etc. supporting only self weight and light-weight finishes or adhered tile, masonry, stone, or terra cotta veneer no more than 5/8" thickness and apex less than 20'-0" in height and not over an exit way. Maximum tributary load to a member shall not exceed the equivalent of that occurring from a 10'x10' opening in a 15' tall wall for a header or king stud.
☐	4. Manufactured support frames and curbs using hot rolled or cold-formed steel (i.e., light gauge) for mechanical, electrical, or plumbing equipment weighing less than 2000# (equipment only) (connections of such frames to superstructure elements using welding will require special inspection as noted in selected item(s) for Sections S/A3, S/A4 and/or S/A5 of listing above).
☐	5. Manufactured components (e.g., Tolco, B-Line, Afcon, etc.) for mechanical, electrical, or plumbing hanger support and bracing (connections of such components to superstructure elements using welding will require special inspection as noted in selected item(s) for Sections S/A3, S/A4 and/or S/A5 of listing above).
☐	6. TV Brackets, projector mounts with a valid listing (see DSA IR A-5) and recreational equipment (e.g., playground structures, basketball backstops, etc.) (connections of such elements to superstructure elements using welding will require special inspection as noted in selected item(s) for sections S/A3, S/A4 and/or S/A5 located in the Steel/Aluminum category of listing above).
☐	7. Any support for exempt non-structural components given in CBC Section 1617A.1.18 (which replaces ASCE 7-16, Section 13.1.4) meeting the following: A) when supported on a floor/roof, <400# and resulting composite center of mass (including component's center of mass) ≤4' above supporting floor/roof, B) when hung from a wall or roof/floor, <20# for discrete units or <5 plf for distributed systems.

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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
☐	a. 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.
☐	b. 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.
☐	c.	Test	LOR	

S/A7. STEEL JOISTS AND TRUSSES:				
Test or Special Inspection	Type	Performed By	Code References and Notes	
☐ a. Verify size, type and grade for all chord and web members as well as connectors and weld filler material; verify joist profile, dimensions and camber (if applicable); verify all weld locations, lengths and profiles; mark or tag each joist.	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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X1. OTHER:			
Test or Special Inspection	Type	Performed By	Code References and Notes
☐ a. Load test for identified product(s).	Test	LOR	1709A.2, 1709A.3. Testing is not required for: 1) a product with a valid evaluation service report per DSA IR A-5, or 2) a product that can be justified by structural calculation.
☐ b. Installation torque for non-HS bolts	Continuous	SI*	Applicable to communication towers identified as Essential Service Facility Projects (ESFP). Calibrated wrench use required, verified by SI during installation. DSA Policy PL 18-01: Communication Towers, Poles and Buildings Utilized by State Agencies for Essential Services Communications.*EXCEPTION: Non-ESFP may use PI without need for notification to DSA.
☐ c.			

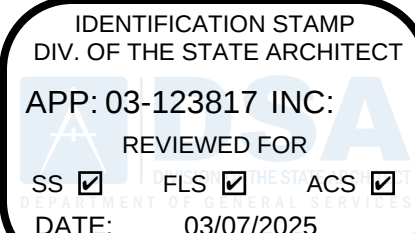
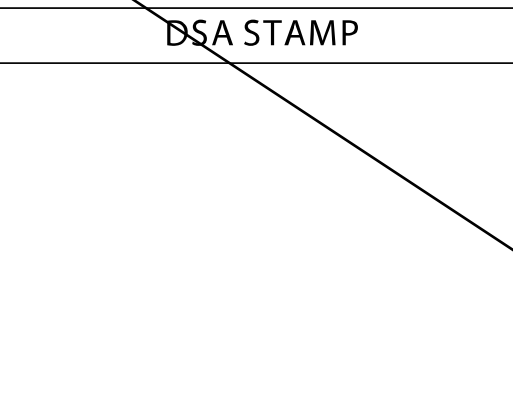
DSA 103-22: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS (SIGNATURE), 2022 CBC

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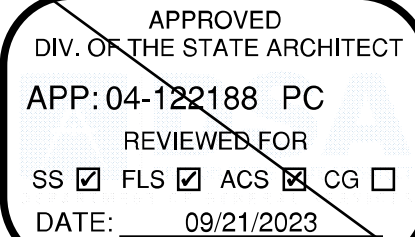
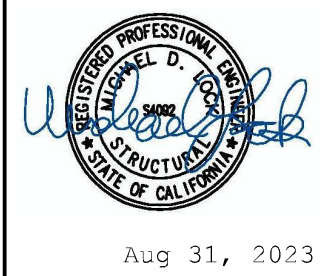
Name of Architect or Engineer in general responsible charge:	
Name of Structural Engineer (When structural design has been delegated):	
Signature of Architect or Structural Engineer:	Date:

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

DSA STAMP



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DSA 103



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