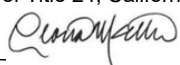


## APPLICATION FOR SUBMITTAL OF POST-APPROVAL DOCUMENT

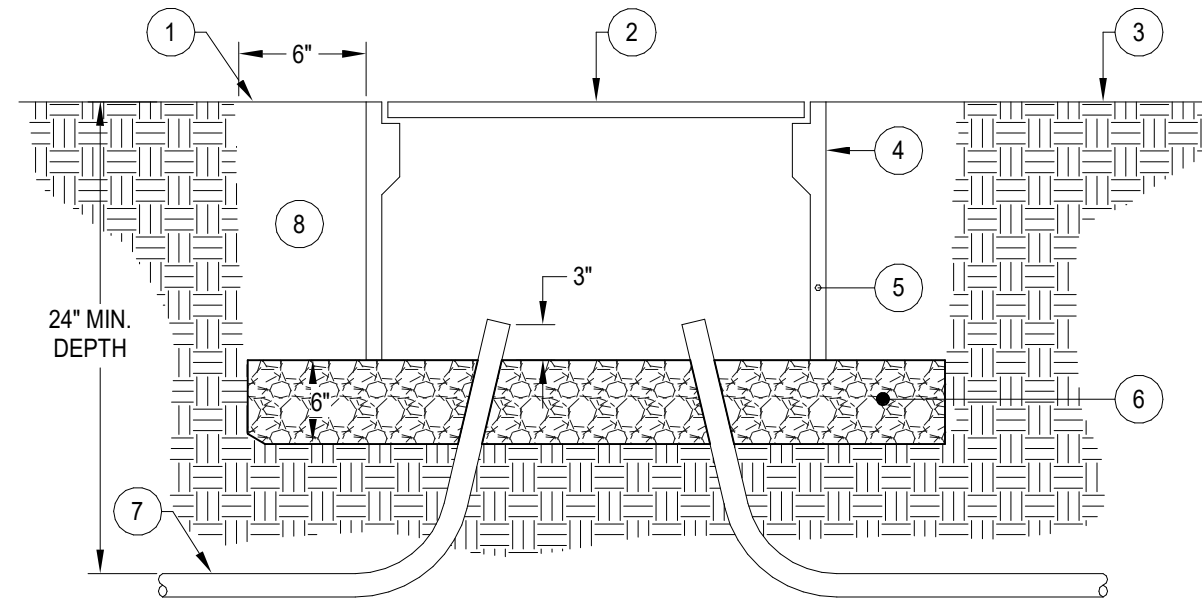
This application is for submittal of documents, after the initial approval of the project (post-approval documents), that require Division of the State Architect (DSA) review and approval. This form shall be completed by the Design Professional in General Responsible Charge of the project, in accordance with California Code of Regulations, Title 24, Part 1, Sections 4-317, 4-323 and 4-338 and in compliance with DSA IR A-6: Construction Change Document Submittal and Approval Process.

DSA documents referenced within this form are available on the [DSA Forms](#) or [DSA Publications](#) webpages.

<b>1. SUBMITTAL TYPE: (Is this a resubmittal? Yes <input type="checkbox"/> No <input type="checkbox"/>)</b>				
Deferred Submittal <input type="checkbox"/>	Addendum Number:	Revision Number:	CCD Number:	Category A <input type="checkbox"/> or B <input type="checkbox"/>
<b>2. PROJECT INFORMATION:</b>				
School District/Owner:			DSA File Number:	
Project Name/School:			DSA Application Number:	
<b>3. APPLICANT INFORMATION:</b>				
Date Submitted:		Attached Pages? No <input type="checkbox"/> Yes <input type="checkbox"/> Number of pages?		
Firm Name:		Contact Name:		
Work Email:		Work Phone:		
Firm Address:		City:	State:	Zip Code:
<b>4. REASON FOR SUBMITTAL: (Check applicable boxes)</b>				
<input type="checkbox"/> For revision or addendum prior to construction.			<input type="checkbox"/> For a project currently under construction.	
<input type="checkbox"/> For a project that has a form DSA 301-N: Notification of Requirement for Certification, DSA 301-P: Posted Notification of Requirement for Certification or a 90-Day Letter issued.				
<input type="checkbox"/> To obtain DSA approval of an existing uncertified building or buildings.				
<input type="checkbox"/> For Category B CCD this is: <input type="checkbox"/> a voluntary submittal, <input type="checkbox"/> a DSA required submittal (attach DSA notice requiring submission).				
<b>5. DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE:</b>				
Name of the Design Professional In General Responsible Charge:				
Professional License Number:			Discipline:	
<b>Design Professional in General Responsible Charge Statement:</b> The attached post-approval documents have been examined by me for design intent and appear to meet the appropriate requirements of Title 24, California Code of Regulations and the project specifications. They are acceptable for incorporation into the construction of the project.				
Signature:  _____ <div style="text-align: center; font-size: small;">DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE</div>				
<b>6. CONFIRMATION, DESCRIPTION AND LISTING OF DOCUMENTS:</b>				
For addenda, revisions, or CCDs: CHECK THIS BOX <input type="checkbox"/> to confirm that <i>all</i> post-approval documents have been stamped and signed by the Responsible Design Professional listed on form DSA 1: Application for Approval of Plans and Specifications for this project. (For Deferred Submittals, refer to IR A-18: Use of Construction Documents Prepared by Other Professionals, and IR A-19: Design Professional's Signature and Seal (Stamp) on Construction Documents, when applicable, for signature and seal requirements.)				
Provide a brief description of construction scope for this post-approval document (attach additional sheets if needed):				
List of DSA-approved drawings affected by this post-approval document:				

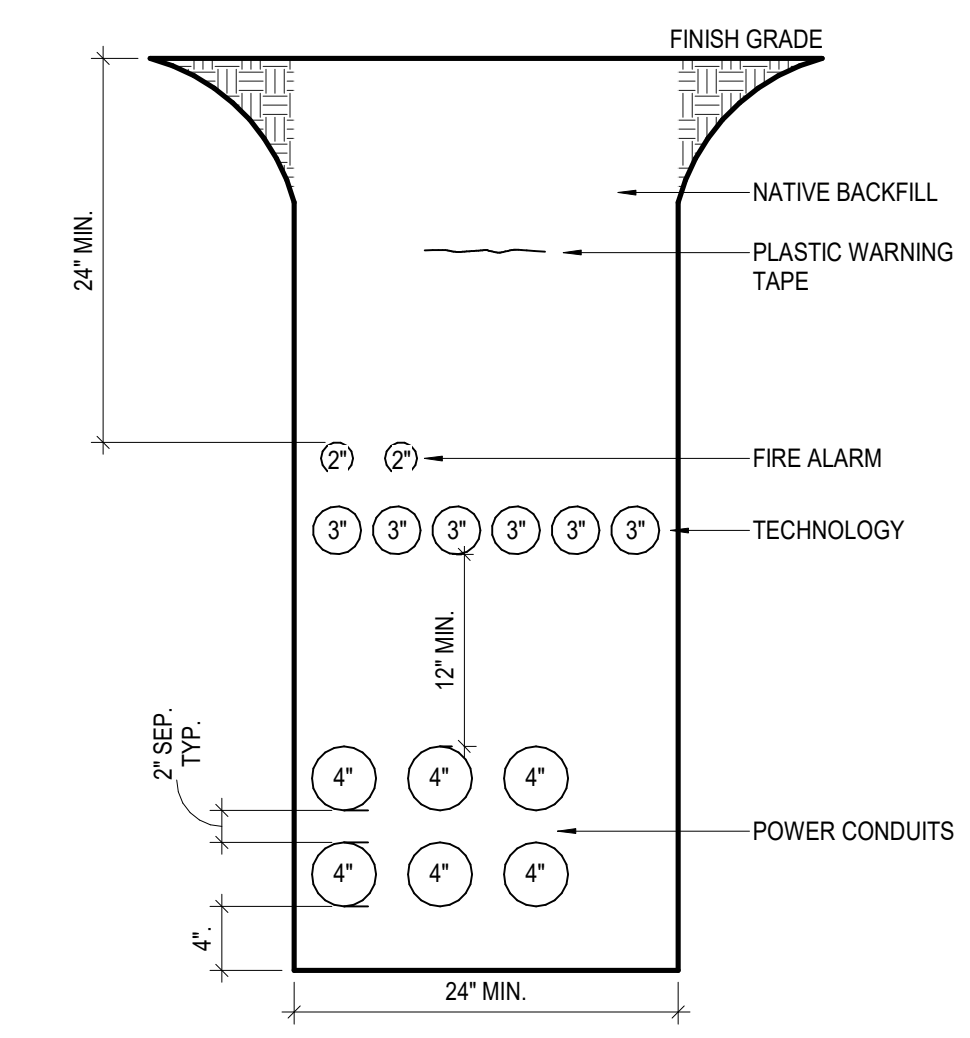
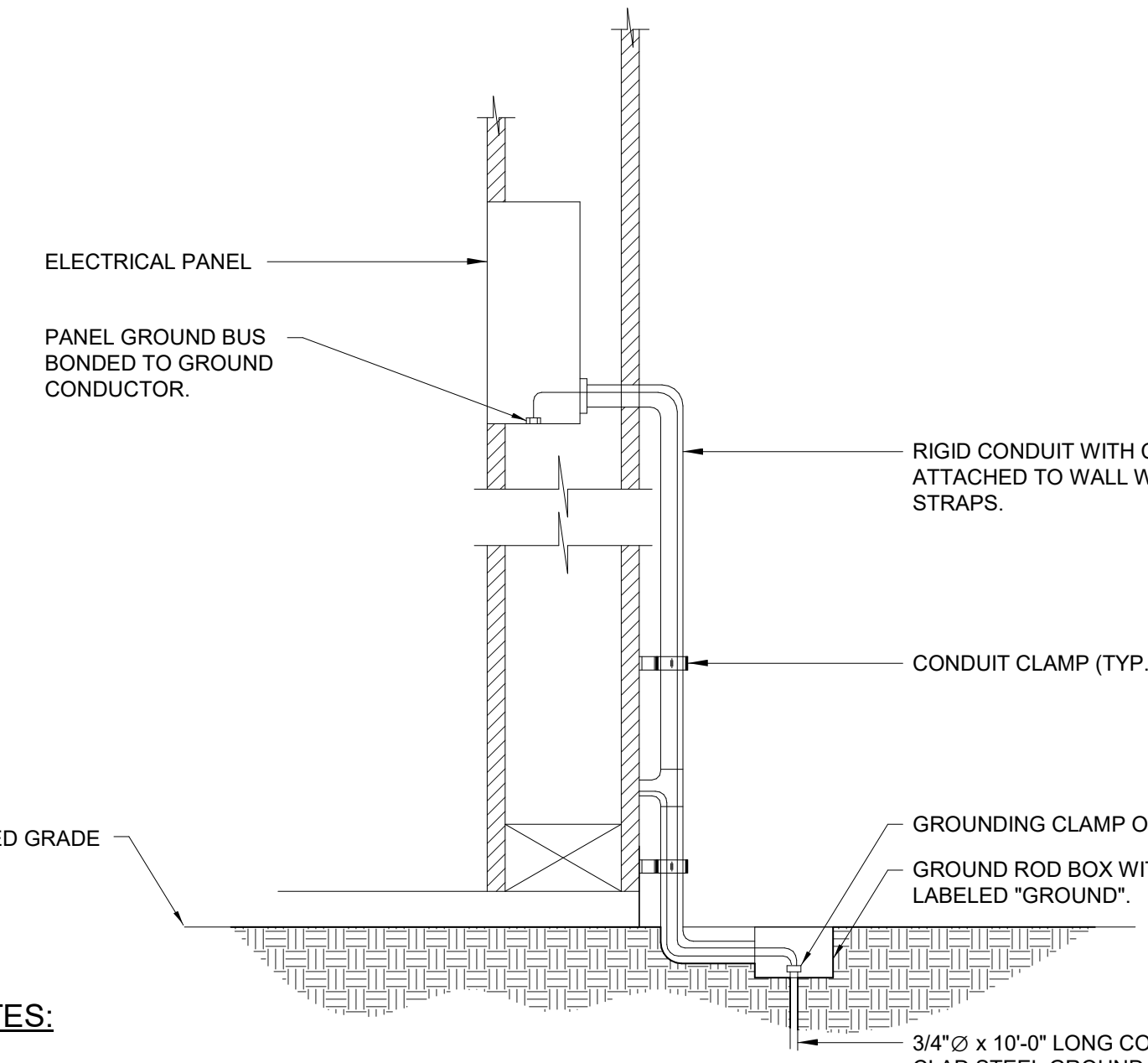
DSA USE ONLY		Returned	DSA STAMP
SSS <b>SH</b> Date <b>10/31/24</b> <input checked="" type="checkbox"/> Approved <input type="checkbox"/> Disapproved <input type="checkbox"/> Not Required Comments: _____		Date: _____ By: _____	<div style="border: 2px solid black; border-radius: 15px; padding: 10px; width: fit-content; margin: auto;"> <p style="margin: 0;">APPROVED</p> <p style="margin: 0; font-size: small;">DIV. OF THE STATE ARCHITECT</p> <p style="margin: 0;">APP: 02-121828 INC:</p> <p style="margin: 0; font-size: small;">REVIEWED FOR</p> <p style="margin: 0;">SS <input checked="" type="checkbox"/> FLS <input type="checkbox"/> ACS <input type="checkbox"/></p> <p style="margin: 0;">DATE: 10/24/2024</p> </div>
FLS _____ Date _____ <input type="checkbox"/> Approved <input type="checkbox"/> Disapproved <input checked="" type="checkbox"/> Not Required Comments: _____			
ACS _____ Date _____ <input type="checkbox"/> Approved <input type="checkbox"/> Disapproved <input checked="" type="checkbox"/> Not Required Comments: _____			

1. SET BOX FLUSH WITH FINISHED GRADE. WHERE EXISTING SURFACE IMPROVEMENTS (CONCRETE, PAVEMENT, LANDSCAPING, TURF, ETC.) HAVE BEEN REMOVED OR DISTURBED, REPAIR OR REPLACE TO MATCH SURROUNDING CONDITIONS.
2. SINK (15,000 LBS) TRAFFIC RATED COVER WHERE APPLICABLE. NON-TRAFFIC RATED REINFORCED CONCRETE COVER OTHERWISE. COVER MARKED OR INSCRIBED WITH INTENDED USE.
3. FINISHED GRADE.
4. REINFORCED CONCRETE PULLBOX. QTY AND SIZE AS SHOWN ON PLANS.
5. PROVIDE BOX EXTENSION RINGS AS REQUIRED.
6. CRUSHED GRAVEL DRAIN BASE BEDDING.
7. TYPICAL UNDERGROUND CONDUIT PER PLANS. DEPTH MIN. 24". SEE TYPICAL TRENCH DETAIL.
8. EXCAVATE A MINIMUM WIDTH EQUAL TO THE DIMENSIONS OF THE BOX PLUS 6" ON ALL SIDES. BACKFILL WITH ROCK-FREE NATIVE SOIL AT 90% COMPACTION.



**DETAIL NOTES:**

1. SIZE OF CONDUCTOR SHALL BE #6 AWG CU.
2. BOND SEPARATE CONDUCTORS FROM GROUND ROD TO ELECTRICAL PANEL AND TO METAL BUILDING FRAME (CEC 250-81). IN ADDITION TO THE DETAIL SHOWN ABOVE, BOND THE ELECTRICAL GROUND TO METAL WATER PIPE EMBEDDED AT LEAST 10 FT. INTO THE SOIL IF AVAILABLE (CEC 250-81 & 250-83).
3. ALL MODULES OF METAL FRAME BUILDINGS SHALL BE ELECTRICALLY BONDED TOGETHER (BOLTING ONLY IS NOT ACCEPTABLE BONDINGS).
4. CHECK RESISTANCE TO GROUND. IF RESISTANCE EXCEEDS 25 OHMS, INSTALL ADDITIONAL GROUND RODS WITH CONDUCTORS AS SHOWN, SEPARATED AT LEAST 6'-0" UNTIL RESISTANCE IS REDUCED TO 25 OHMS OR LESS. (CEC 250-84).
5. GROUND TEST SHALL BE WITNESSED BY PROJECT INSPECTOR, AND RECORDED FOR OWNER MANUAL.



**GENERAL NOTES**

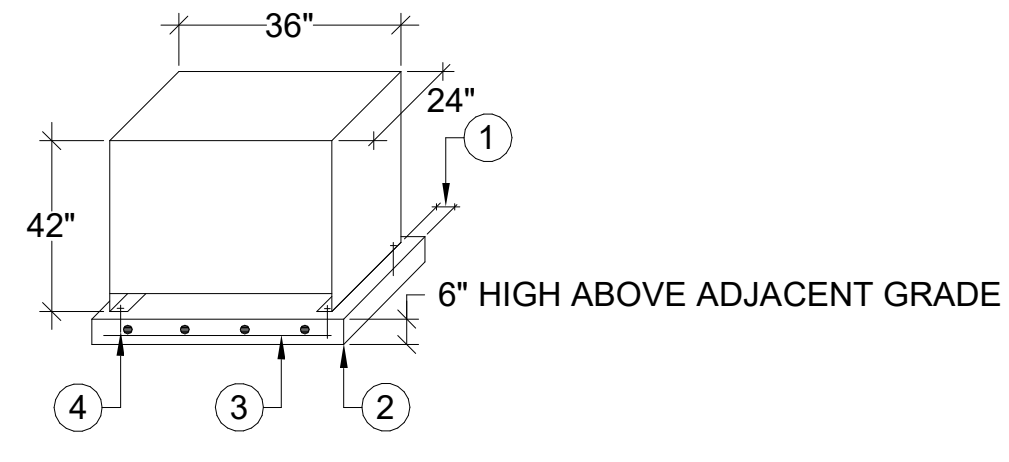
1. ELECTRICAL WORK SHALL BE PERFORMED BY, OR UNDER THE DIRECT SUPERVISION OF, QUALIFIED, LICENSED PERSONNEL AND PURSUANT TO THE REQUIREMENTS OF THE CALIFORNIA ELECTRICAL CODE (CEC 2019) AND THE DIVISION OF THE STATE ARCHITECT (DSA). NO ASPECT OF THESE DRAWINGS OR SPECIFICATIONS SUPERCEDES THESE REQUIREMENTS. ANY DISCREPANCIES OR CONFLICTS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER OF RECORD PRIOR TO PERFORMING THE WORK IN QUESTION.
2. CONDUIT ROUTING AND EQUIPMENT PLACING IS DIAGRAMMATIC. VERIFY EQUIPMENT PLACEMENT AND CONDUIT ROUTING BASED ON APPROVED EQUIPMENT AND SITE CONDITIONS PRIOR TO COMMENCING WORK. MAKE NECESSARY ADJUSTMENTS TO LAYOUT.
3. MAINTAIN CODE REQUIRED CLEARANCES AROUND EQUIPMENT.
4. COORDINATE EXACT ROUTING OF UNDERGROUND CONDUIT WITH CAMPUS REPRESENTATIVE PRIOR TO ROUGH-IN.

**KEYED NOTES**

- 1 PROVIDE (1) 2'C [SIGNAL] + (2) 2'C O.
- 2 PROVIDE (1) 2'C [FIRE] + (2) 2'C O.
- 3 PROVIDE [POWER] FEEDER PER SINGLE LINE DIAGRAM ON SHEET E5.01.
- 4 COORDINATE LOCATION OF EXISTING EQUIPMENT WITH CAMPUS REPRESENTATIVE PRIOR TO ROUGH-IN.
- 5 COORDINATE EXACT LOCATIONS FOR STUBS INTO BUILDING WITH CAMPUS REPRESENTATIVE PRIOR TO ROUGH-IN.
- 6 PROVIDE 3' X 3' IN-GRADE PULL BOX.
- 7 PROVIDE GROUND ROD PER DETAIL 4 ON SHEET E1.01.
- 8 PROVIDE RED CIRCUIT BREAKER EQUIPPED WITH LOCK OUT DEVICE IN PANEL A PROVIDED WITH MODULAR BUILDING. CIRCUIT 7.
- 9 PROVIDE DEDICATED CIRCUIT A-7 TO FEED FIRE ALARM NAC POWER SUPPLY. 3/4"C, 2#12, 1#12S.
- 10 REPLACE EXISTING RECEPTACLE AT THE TEACHER'S ISLAND WITH A GFCI PROTECTED RECEPTACLE.
- 11 PROVIDE IN-FLOOR POWER, DATA/TELECOM OUTLET BOX WITH COVER, HUBBELL SYSTEMONE, 4" ROUND RECESSED FLOOR BOX.
- 12 PROVIDE CONNECTION FOR FURNITURE. COORDINATE INSTALLATION REQUIREMENTS WITH CAMPUS REPRESENTATIVE PRIOR TO ROUGH-IN.

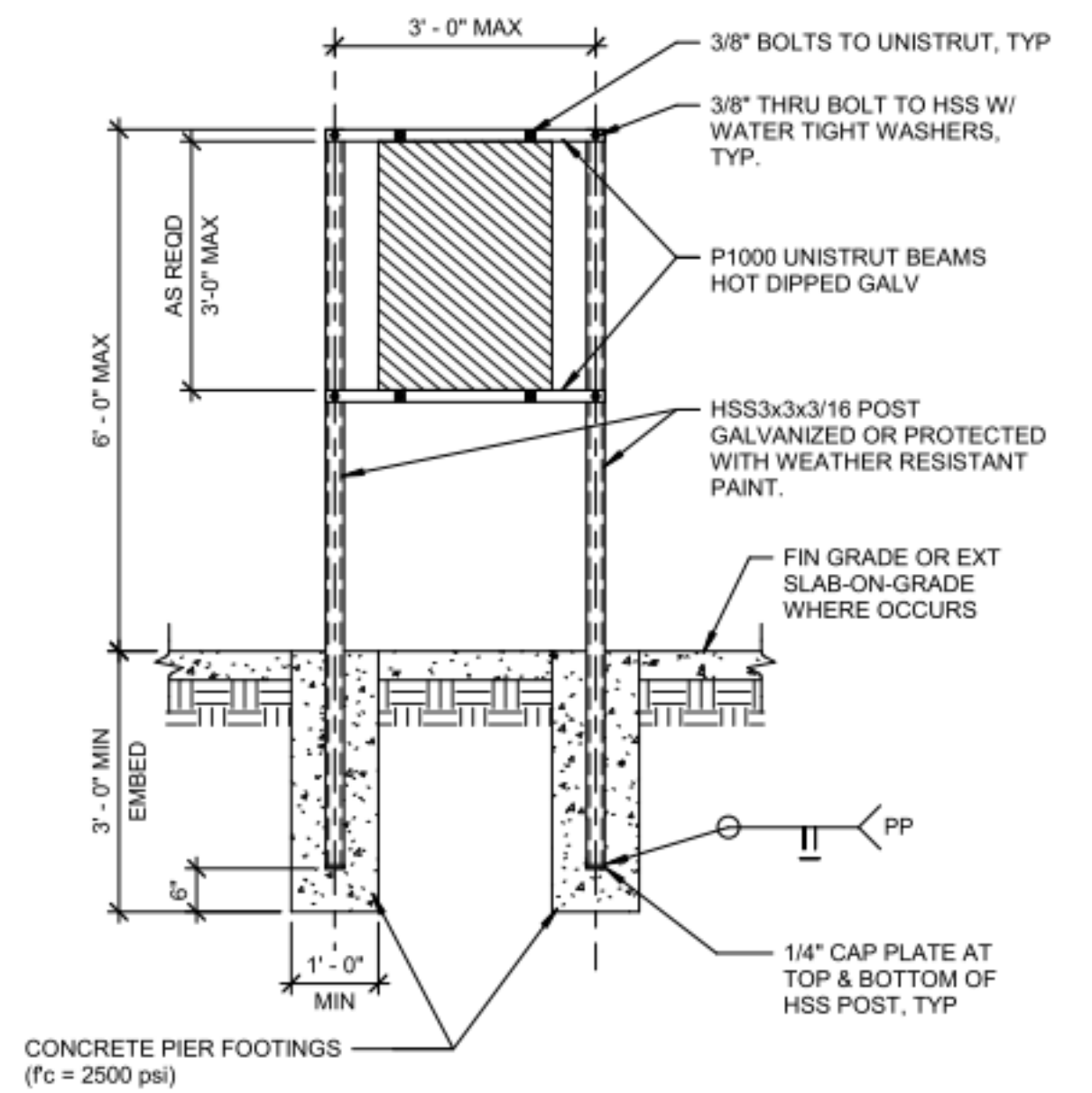
**5 UNDERGROUND PULLBOX DETAIL**  
NOT TO SCALE

1. MIN. 6" FROM CENTER LINE OF ANCHOR BOLTS TO EDGE OF PAD.
2. 6" HOUSEKEEPING PAD BY ELEC. CONTRACTOR.
3. #4 @ 16" ON CENTER EACH WAY.
4. 1/2" x 5" ANCHOR BOLTS, ONE AT EACH SECTION. EMBED 3" MIN. HILTI KB T22 EXPANSION ANCHORS. (CBO REPORT #4266). TORSION TEST VALUE

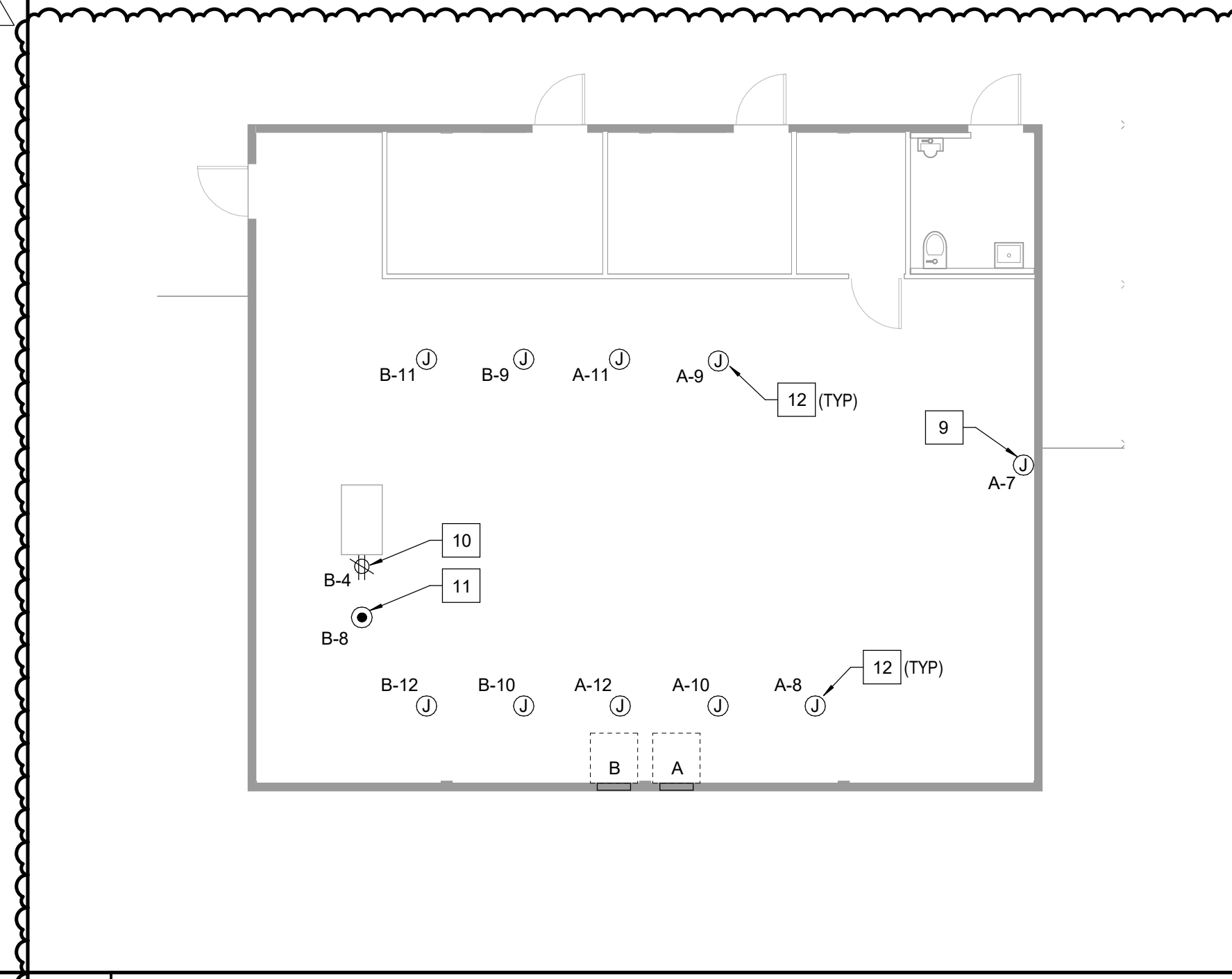


- NOTE:**
1. REFER TO NOTES ON PLAN FOR GROUNDING AND BONDING OF TRANSFORMER.
  2. TRANSFORMER MAX WEIGHT = 600LBS.

**4 PORTABLE BUILDING GROUNDING DETAIL**  
NOT TO SCALE



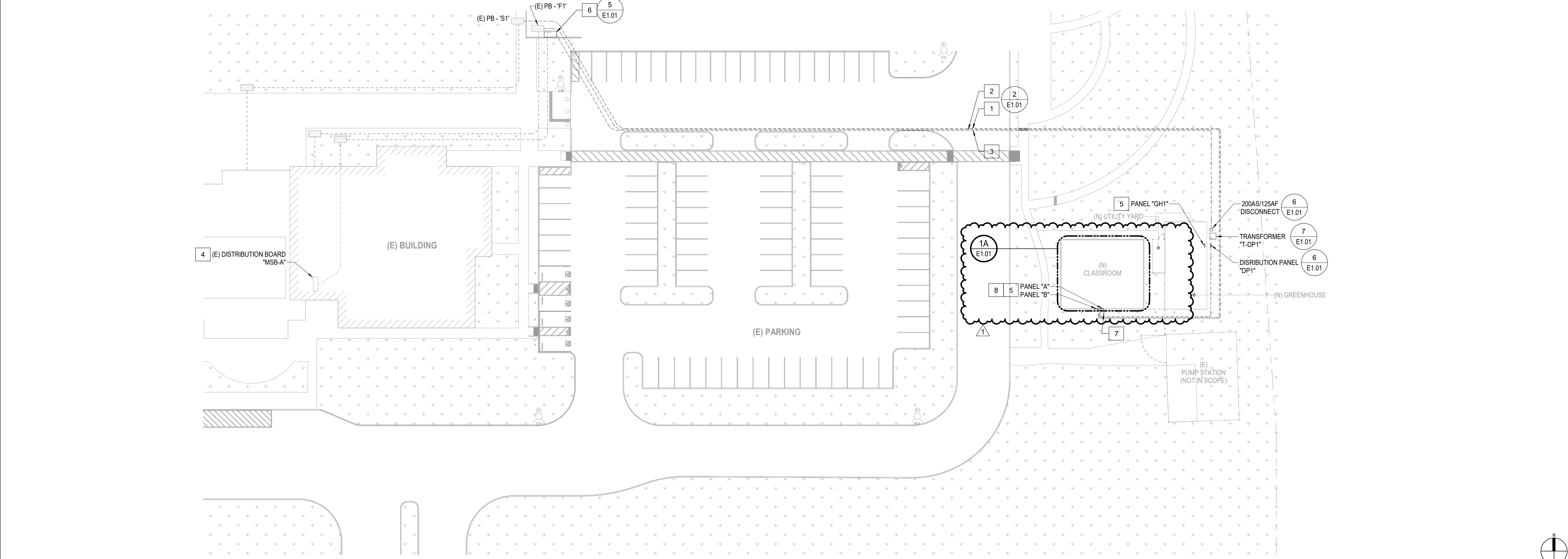
**2 LOADSIDE POWER TRENCH**  
NOT TO SCALE



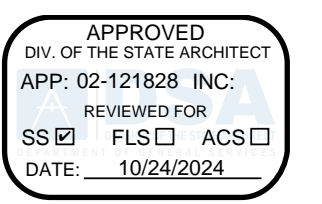
**7 TRANSFORMER MOUNTING DETAIL**  
NOT TO SCALE

**6 PANEL MOUNTING DETAIL**  
NOT TO SCALE

**1A ENLARGED PLAN - CLASSROOM**  
SCALE: 1/8" = 1'-0"

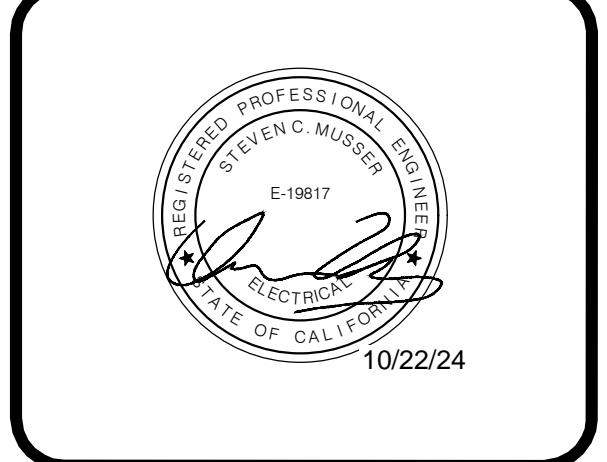
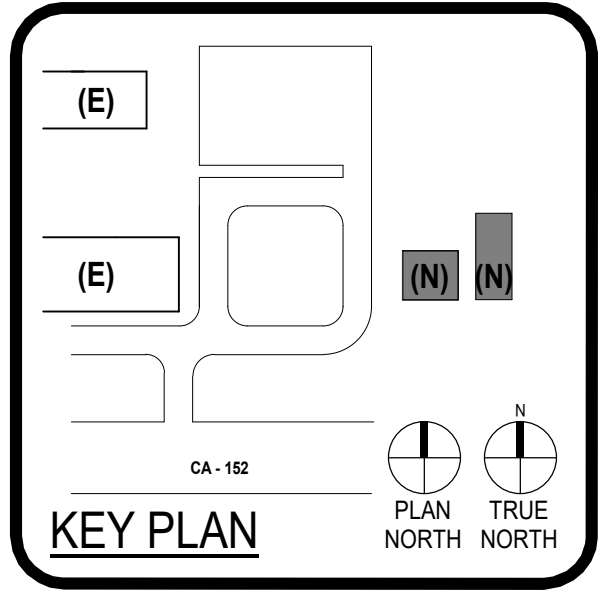


**1 ELECTRICAL SITE PLAN**  
SCALE: 1" = 30'-0"



ARCHITECT  
FOLSOM  
1110 Iron Point Rd, Suite 200  
Folsom, CA 95630  
916-355-6922 P

PLANT SCIENCE BUILDING  
MERCED COMMUNITY COLLEGE DISTRICT  
LOS BANOS  
22240 CA-152,  
LOS BANOS, CA 93835  
CONSTRUCTION DOCUMENTS  
DSA-APPL. NO. 02-121828 FILE NO. 24-C1

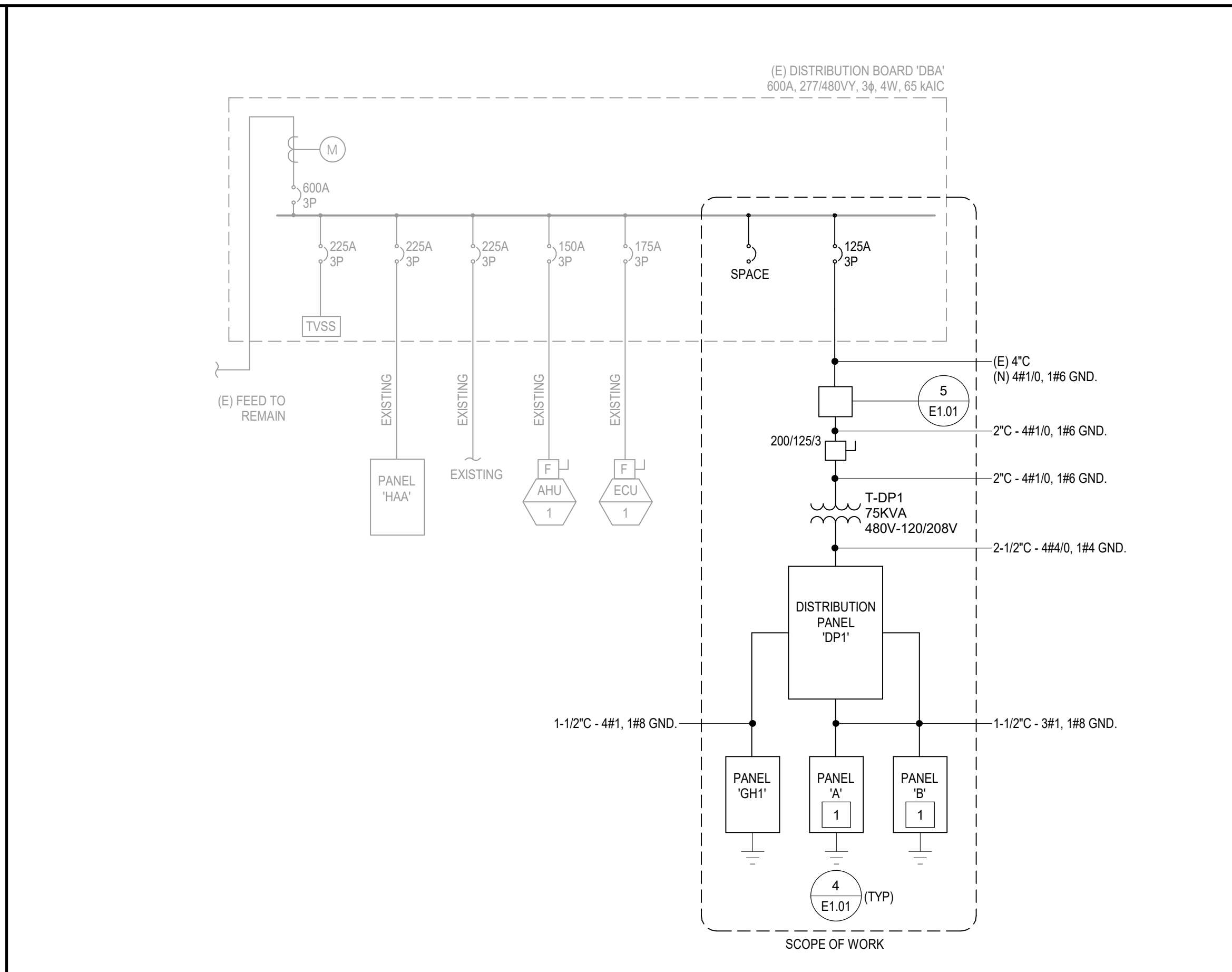


CLIENT		MERCED COMMUNITY COLLEGE DISTRICT
PROJECT NUMBER		230268
DATE	11/15/2023	
DRAWN BY:	TC	CHEKED BY: CM
REVISIONS		
#	DESCRIPTION	DATE
1	020-001	10/22/2024

CONSTRUCTION DOCUMENTS  
**ELECTRICAL PLANS & DETAILS**

**E1.01**





**1 SINGLE LINE DIAGRAM**  
SCALE: 3" = 1'-0"

**KEYED NOTES**

1 PANEL PROVIDED WITH MODULAR BUILDING. SEE MODULAR BUILDING DRAWINGS FOR PANEL SCHEDULE AND MORE INFORMATION.

**Branch Panel: A**

LOCATION: CLASSROOM 106

NEUTRAL BUS: Yes  
NEUTRAL RATING: 100%  
GROUND BUS: Yes  
MOUNTING: SURFACE  
AIC RATING:

VOLTAGE: 120/208V, 1PH, 3W  
MAIN BUS: 100 A  
MCB: 100 A

CIR NO	Circuit Description	Breaker Amps/ Poles	A		B		Breaker Amps/ Poles	Circuit Description	CIR NO
			VA	AMPS	VA	AMPS			
1	4T HVAC UNIT	60 A 2	5428	540	5428	720	1 20 A	RECEPTS	2
3	LIGHTS/FAN	20 A 1	624	540			1 20 A	RECEPTS/CLOCK	4
5	FACT #	20 A 1			500	360	1 20 A	EXIT/EXTERIOR LIGHT	6
7	FURNITURE	20 A 1	360	360			1 20 A	FURNITURE	8
9	FURNITURE	20 A 1					1 20 A	FURNITURE	10
11	FURNITURE	20 A 1					1 20 A	FURNITURE	12

**LEGEND:**  
 \*\* 6 mA GROUND FAULT CIRCUIT BREAKER  
 \*30 mA GROUND FAULT CIRCUIT BREAKER  
 # RED LOCK-ON CIRCUIT BREAKER HANDLE  
 ST - SHUNT TRIP

**CONNECTED LOAD BY PHASE:**  
 A: 7852 VA 75 A AMPS  
 B: 7728 VA 75 A AMPS

**CONNECTED DEMAND:**  
 15580 VA KVA  
 75 A AMPS

**REMARKS:**

**Distribution Panel: DP1**

LOCATION: CLASSROOM 106

NEUTRAL BUS: 225  
NEUTRAL RATING: 225  
GROUND BUS: 225  
ISOLATED GROUND... NO  
MOUNTING: UNISTRUT  
AIC RATING:

VOLTAGE: 120/208V  
MAINS: 225 A  
Main CIR. BKR: 225 A  
AIC RATING: 10KAIC

CIR NO	Circuit Description	Breaker amps/poles	A			Legend	Circuit Description	CIR NO
			VA	AMPS	PHASE			
1	PANEL GH1	100 A 3	8700 / 8700			2 100 A	PANEL A	2
3	SPACE	-- 1 --	8700 / 8700			2 100 A	PANEL B	4
5	SPACE	-- 1 --	0 / 8700		0 / 0	2 100 A	SPACE	6
7	SPACE	-- 1 --	0 / 0		0 / 0	2 100 A	SPACE	8
9	SPACE	-- 1 --	0 / 0		0 / 0	2 100 A	SPACE	10
11	SPACE	-- 1 --	0 / 0		0 / 0	2 100 A	SPACE	12
13	SPACE	-- 1 --	0 / 0		0 / 0	2 100 A	SPACE	14
15	SPACE	-- 1 --	0 / 0		0 / 0	2 100 A	SPACE	16
17	SPACE	-- 1 --	0 / 0		0 / 0	2 100 A	SPACE	18
19	SPACE	-- 1 --	0 / 0		0 / 0	2 100 A	SPACE	20
21	SPACE	-- 1 --	0 / 0		0 / 0	2 100 A	SPACE	22
23	SPACE	-- 1 --	0 / 0		0 / 0	2 100 A	SPACE	24
25	SPACE	-- 1 --	0 / 0		0 / 0	2 100 A	SPACE	26
27	SPACE	-- 1 --	0 / 0		0 / 0	2 100 A	SPACE	28
29	SPACE	-- 1 --	0 / 0		0 / 0	2 100 A	SPACE	30
31	SPACE	-- 1 --	0 / 0		0 / 0	2 100 A	SPACE	32
33	SPACE	-- 1 --	0 / 0		0 / 0	2 100 A	SPACE	34
35	SPACE	-- 1 --	0 / 0		0 / 0	2 100 A	SPACE	36
37	SPACE	-- 1 --	0 / 0		0 / 0	2 100 A	SPACE	38
39	SPACE	-- 1 --	0 / 0		0 / 0	2 100 A	SPACE	40
41	SPACE	-- 1 --	0 / 0		0 / 0	2 100 A	SPACE	42

**LEGEND:**  
 \*\* 6 mA GROUND FAULT CIRCUIT BREAKER  
 \*30 mA GROUND FAULT CIRCUIT BREAKER  
 # LOCK-ON CIRCUIT BREAKER HANDLE  
 ST - SHUNT TRIP

**CONNECTED LOAD BY PHASE:**  
 A: 26100 VA 169 A 3 PH. AMPS  
 B: 17400 VA 169 A 3 PH. AMPS  
 C: 17400 VA 169 A 3 PH. AMPS

**CONNECTED DEMAND:**  
 69000 VA KVA  
 169 A 3 PH. AMPS

**REMARKS:**

**Branch Panel: GH1**

LOCATION: CLASSROOM 106

NEUTRAL BUS: 100  
NEUTRAL RATING: 100  
GROUND BUS: 100  
ISOLATED GROUND... NO  
MOUNTING: SURFACE  
AIC RATING:

VOLTAGE: 120/208V  
MAINS: 100 A  
Main CIR. BKR: 100 A  
AIC RATING: 10KAIC

CIR NO	Circuit Description	Breaker amps/poles	A			Legend	Circuit Description	CIR NO
			VA	AMPS	PHASE			
1	SPARE	20 A 1	0 / 0			1 20 A	SPARE	2
3	SPARE	20 A 1	0 / 0			1 20 A	SPARE	4
5	SPARE	20 A 1	0 / 0		0 / 0	1 20 A	SPARE	6
7	SPARE	20 A 1	0 / 0		0 / 0	1 20 A	SPARE	8
9	SPARE	20 A 1	0 / 0		0 / 0	1 20 A	SPARE	10
11	SPARE	20 A 1	0 / 0		0 / 0	1 20 A	SPARE	12
13	SPARE	20 A 1	0 / 0		0 / 0	1 20 A	SPARE	14
15	SPARE	20 A 1	0 / 0		0 / 0	1 20 A	SPARE	16
17	SPARE	20 A 1	0 / 0		0 / 0	1 20 A	SPARE	18
19	SPARE	20 A 1	0 / 0		0 / 0	1 20 A	SPARE	20
21	SPARE	20 A 1	0 / 0		0 / 0	1 20 A	SPARE	22
23	SPARE	20 A 1	0 / 0		0 / 0	1 20 A	SPARE	24
25	SPARE	20 A 1	0 / 0		0 / 0	1 20 A	SPARE	26
27	SPARE	20 A 1	0 / 0		0 / 0	1 20 A	SPARE	28
29	SPARE	20 A 1	0 / 0		0 / 0	1 20 A	SPARE	30
31	SPARE	20 A 1	0 / 0		0 / 0	1 20 A	SPARE	32
33	SPARE	20 A 1	0 / 0		0 / 0	1 20 A	SPARE	34
35	SPARE	20 A 1	0 / 0		0 / 0	1 20 A	SPARE	36
37	SPARE	20 A 1	0 / 0		0 / 0	1 20 A	SPARE	38
39	SPARE	20 A 1	0 / 0		0 / 0	1 20 A	SPARE	40
41	SPARE	20 A 1	0 / 0		0 / 0	1 20 A	SPARE	42

**LEGEND:**  
 \*\* 6 mA GROUND FAULT CIRCUIT BREAKER  
 \*30 mA GROUND FAULT CIRCUIT BREAKER  
 # LOCK-ON CIRCUIT BREAKER HANDLE  
 ST - SHUNT TRIP

**CONNECTED LOAD BY PHASE:**  
 A: 0 VA 0 A 3 PH. AMPS  
 B: 0 VA 0 A 3 PH. AMPS  
 C: 0 VA 0 A 3 PH. AMPS

**CONNECTED DEMAND:**  
 0 VA KVA  
 0 A 3 PH. AMPS

**REMARKS:**

APPROVED  
BY: THE ARCHITECT  
APP: 02-121828 INC.  
REVIEWED FOR  
SS ID FILED ACS  
DATE: 10/24/2024

ARCHITECT: PBK Architects, Inc.  
FOLSOM  
1110 Iron Point Rd, Suite 200  
Folsom, CA 95630  
916-355-9922 P

PLANT SCIENCE BUILDING  
MERCED COMMUNITY COLLEGE DISTRICT  
LOS BANOS  
22240 CA-152  
LOS BANOS, CA 93635  
CONSTRUCTION DOCUMENTS  
DSA-APPL. NO. 02-121828 FILE NO. 24-C1

KEY PLAN  
CA-152  
PLAN NORTH  
TRUE NORTH

10/22/24

MERCED COMMUNITY COLLEGE DISTRICT  
PROJECT NUMBER  
230268  
DATE  
11/15/2023  
DRAWN BY: TC  
CHKD BY: CM

#	DESCRIPTION	DATE
1	020-001	10/22/2024

CONSTRUCTION DOCUMENTS

**SINGLE LINE DIAGRAM**

**E5.01**

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

## General

<b>Application Number:</b> 02-121828	<b>School Name:</b> Merced Community College Los Banos Campus	<b>School District:</b> Merced Community College District
<b>DSA File Number:</b> 24-C1	<b>Increment Number:</b>	<b>Date Created:</b> 2024-03-26 15:21:32

**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
<p><b>Continuous</b> – Indicates that a continuous special inspection is required</p> <p><b>Periodic</b> – Indicates that a periodic special inspection is required</p> <p><b>Test</b> – Indicates that a test is required</p>	<p><b>GE (Geotechnical Engineer)</b> – Indicates that the special inspection shall be performed by a registered geotechnical engineer or his or her authorized representative.</p> <p><b>LOR (Laboratory of Record)</b> – Indicates that the test or special inspection shall be performed by a testing laboratory accepted in the DSA Laboratory Evaluation and Acceptance (LEA) Program. See CAC Section 4-335.</p> <p><b>PI (Project Inspector)</b> – Indicates that the special inspection may be performed by a project inspector when specifically approved by DSA.</p> <p><b>SI (Special Inspection)</b> – Indicates that the special inspection shall be performed by an appropriately qualified/approved special inspector.</p>

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

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

<b>Application Number:</b> 02-121828	<b>School Name:</b> Merced Community College Los Banos Campus	<b>School District:</b> Merced Community College District
<b>DSA File Number:</b> 24-C1	<b>Increment Number:</b>	<b>Date Created:</b> 2024-03-26 15:21:32

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

S1. GENERAL:				
	Test or Special Inspection	Type	Performed By	Code References and Notes
<input type="checkbox"/>	<b>a. Verify that:</b> 1. Site has been prepared properly prior to placement of controlled fill and/or excavations for foundations. 2. Foundation excavations are extended to proper depth and have reached proper material. 3. Materials below footings must not contain loose material, mud, organic silt, organic clays, or peat.	See Notes	PI	Refer to specific items identified in the Appendix listing exemptions for limitations. Placement of controlled fill exceeding 12" depth under foundations and/or within the building envelope is not permitted without a geotechnical report.

S2. SOIL COMPACTION AND FILL:				
	Test or Special Inspection	Type	Performed By	Code References and Notes
<input type="checkbox"/>	<b>a. Perform classification and testing of fill materials.</b>	Test	LOR*	* Under the supervision of the geotechnical engineer.
<input type="checkbox"/>	<b>b. Verify use of proper materials, densities and inspect lift thicknesses, placement and compaction during placement of fill.</b>	Continuous	LOR*	* Under the supervision of a geotechnical engineer or LOR's engineering manager. Refer to specific items identified in the Appendix listing exemptions for limitations.
<input type="checkbox"/>	<b>c. Compaction testing.</b>	Test	LOR*	* Under the supervision of a geotechnical engineer or LOR's engineering manager. Refer to specific items identified in the Appendix listing exemptions for limitations.

S3. DRIVEN DEEP FOUNDATIONS (PILES):				
	Test or Special Inspection	Type	Performed By	Code References and Notes
<input type="checkbox"/>	<b>a. Verify pile materials, sizes and lengths comply with the requirements.</b>	Continuous	GE*	* By geotechnical engineer or his or her qualified representative.

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

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

<b>Application Number:</b> 02-121828	<b>School Name:</b> Merced Community College Los Banos Campus	<b>School District:</b> Merced Community College District
<b>DSA File Number:</b> 24-C1	<b>Increment Number:</b>	<b>Date Created:</b> 2024-03-26 15:21:32

	Test or Special Inspection	Type	Performed By	Code References and Notes
<input type="checkbox"/>	b. Determine capacities of test piles and conduct additional load tests as required.	Test	LOR*	* Under the supervision of the geotechnical engineer.
<input type="checkbox"/>	c. Inspect driving operations and maintain complete and accurate records for each pile.	Continuous	GE*	* By geotechnical engineer or his or her qualified representative.
<input type="checkbox"/>	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.
<input type="checkbox"/>	e. Steel piles.	Provide tests and inspections per STEEL section below.		
<input type="checkbox"/>	f. Concrete piles and concrete filled piles.	Provide tests and inspections per CONCRETE section below.		
<input type="checkbox"/>	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
<input type="checkbox"/>	a. Inspect drilling operations and maintain complete and accurate records for each pier.	Continuous	PI	Continuous inspection to be provided by project inspector. Refer to specific items identified in the Appendix listing exemptions for limitations.
<input type="checkbox"/>	b. Verify pier locations, diameters, plumbness and lengths. Record concrete or grout volumes.	Continuous	PI	Continuous inspection to be provided by project inspector. Refer to specific items identified in the Appendix listing exemptions for limitations.
<input type="checkbox"/>	c. Concrete piers.	Provide tests and inspections per CONCRETE section below.		

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

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

<b>Application Number:</b> 02-121828	<b>School Name:</b> Merced Community College Los Banos Campus	<b>School District:</b> Merced Community College District
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Test or Special Inspection	Type	Performed By	Code References and Notes
<b>S5. RETAINING WALLS:</b>			
Test or Special Inspection	Type	Performed By	Code References and Notes
<input type="checkbox"/> a. Placement, compaction and inspection of backfill.	<b>Continuous</b>	GE*	<b>1705A.6.1.</b> * By geotechnical engineer or his or her qualified representative. (See section S2 above).
<input type="checkbox"/> b. Placement of soil reinforcement and/or drainage devices.	<b>Continuous</b>	GE*	* By geotechnical engineer or his or her qualified representative.
<input type="checkbox"/> c. Segmental retaining walls; inspect placement of units, dowels, connectors, etc.	<b>Continuous</b>	GE*	* By geotechnical engineer or his or her qualified representative. See DSA IR 18-2.
<input type="checkbox"/> d. Concrete retaining walls.	Provide tests and inspections per CONCRETE section below.		
<input type="checkbox"/> e. Masonry retaining walls.	Provide tests and inspections per MASONRY section below.		

<b>S6. OTHER SOILS:</b>			
Test or Special Inspection	Type	Performed By	Code References and Notes
<input type="checkbox"/> a. Soil Improvements	<b>Test</b>	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.
<input type="checkbox"/> b. Inspection of Soil Improvements	<b>Continuous</b>	GE*	* By geotechnical engineer or his or her qualified representative.
<input type="checkbox"/> c.			

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

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

<b>Application Number:</b> 02-121828	<b>School Name:</b> Merced Community College Los Banos Campus	<b>School District:</b> Merced Community College District
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C1. CAST-IN-PLACE CONCRETE				
	Test or Special Inspection	Type	Performed By	Code References and Notes
<input checked="" type="checkbox"/>	a. Verify use of required design mix.	Continuous	SI	Table 1705A.3 Item 5, 1910A.1.
<input checked="" type="checkbox"/>	b. Identifiy, 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.)
<input checked="" type="checkbox"/>	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.
<input checked="" type="checkbox"/>	d. Test concrete (f).	Test	LOR	1905A.1.17; ACI 318-19 Section 26.12.
<input type="checkbox"/>	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 not required per 1705A.3.3.2. See IR 17-13. (See Appendix (end of this form) for exemptions.)
<input type="checkbox"/>	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
<input type="checkbox"/>	a. Sample and test prestressing tendons and anchorages.	Test	LOR	1705A.3.4, 1910A.3
<input type="checkbox"/>	b. Inspect placement of prestressing tendons.	Periodic	SI	1705A.3.4, Table 1705A.3 Items 1 & 9.



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

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

<b>Application Number:</b> 02-121828	<b>School Name:</b> Merced Community College Los Banos Campus	<b>School District:</b> Merced Community College District
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	Test or Special Inspection	Type	Performed By	Code References and Notes
<input type="checkbox"/>	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.
<input type="checkbox"/>	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 318-19 Section 26.13

C3. PRECAST CONCRETE (IN ADDITION TO SECTION C1):				
	Test or Special Inspection	Type	Performed By	Code References and Notes
<input type="checkbox"/>	a. Inspect fabrication of precast concrete members.	Continuous	SI	ACI 318-19 Section 26.13, and PCI MNL-128 and -130.
<input type="checkbox"/>	b. Inspect erection of precast concrete members.	Periodic	SI*	Table 1705A.3 Item 10. * May be performed by PI when specifically approved by DSA.
<input type="checkbox"/>	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
<input type="checkbox"/>	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

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

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

<b>Application Number:</b> 02-121828	<b>School Name:</b> Merced Community College Los Banos Campus	<b>School District:</b> Merced Community College District
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C4. SHOTCRETE (IN ADDITION TO SECTION C1):				
	Test or Special Inspection	Type	Performed By	Code References and Notes
<input type="checkbox"/>	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.
<input type="checkbox"/>	b. Sample and test shotcrete (f).	Test	LOR	1908A.2, 1705A.3.9

C5. POST-INSTALLED ANCHORS:				
	Test or Special Inspection	Type	Performed By	Code References and Notes
<input checked="" type="checkbox"/>	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 318-19 Section 26.13. * May be performed by the project inspector when specifically approved by DSA.
<input checked="" type="checkbox"/>	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
<input type="checkbox"/>	a.			

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

<b>Application Number:</b> 02-121828	<b>School Name:</b> Merced Community College Los Banos Campus	<b>School District:</b> Merced Community College District
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Exempt items given in DSA IR A-22 or the 2022 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:	
<input type="checkbox"/>	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.
<input checked="" type="checkbox"/>	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 with depth not exceeding 12".

CONCRETE/MASONRY:	
<input type="checkbox"/>	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
<input type="checkbox"/>	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.
<input type="checkbox"/>	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 shown in Appendix A of IR 21-1.
<input type="checkbox"/>	4. Epoxy shear dowels in site flatwork and/or other non-structural concrete.

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

<b>Application Number:</b> 02-121828	<b>School Name:</b> Merced Community College Los Banos Campus	<b>School District:</b> Merced Community College District
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	<b>CONCRETE/MASONRY:</b>
<input type="checkbox"/>	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.

	<b>WELDING:</b>
<input type="checkbox"/>	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.
<input type="checkbox"/>	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.
<input type="checkbox"/>	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.
<input type="checkbox"/>	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).
<input type="checkbox"/>	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).
<input type="checkbox"/>	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).




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

<b>Application Number:</b> 02-121828	<b>School Name:</b> Merced Community College Los Banos Campus	<b>School District:</b> Merced Community College District
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<b>WELDING:</b>	
<input type="checkbox"/>	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) above supporting floor/roof, B) when hung from a wall or roof/floor, <20# for discrete units or <5 plf for distributed systems.

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

<b>Application Number:</b> 02-121828	<b>School Name:</b> Merced Community College Los Banos Campus	<b>School District:</b> Merced Community College District
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<b>Name of Architect or Engineer in general responsible charge:</b>  Leona Ketterl	
<b>Name of Structural Engineer (When structural design has been delegated):</b>  	
<b>Signature of Architect or Structural Engineer:</b> 	<b>Date:</b> 3/26/24

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

<b>DSA STAMP</b>
IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT APP: 02-121828 INC: REVIEWED FOR SS <input checked="" type="checkbox"/> FLS <input checked="" type="checkbox"/> ACS <input checked="" type="checkbox"/> DATE: <u>7/24/2024</u>

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

**Application Number:**  
02-121828  
**DSA File Number:**  
24-C1

**School Name:**  
Merced Community College Los Banos Campus  
**Increment Number:**

**School District:**  
Merced Community College District  
**Date Created:**  
2024-03-26 15:21:32

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

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2. Post-installed Anchors: Laboratory Verified Report Form DSA 291, or, for independently contracting SI, Special Inspection Verified Report Form DSA 292

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