



December 19, 2023

Peartree+Belli Job #: 20035

Regarding:

**SHERWOOD ELEMENTARY SCHOOL  
NEW BUS DROP-OFF, ACCESSIBLE RAMP AND RESTROOM MODERNIZATION  
110 S. WOOD STREET, SALINAS, CA  
SALINAS CITY ELEMENTARY SCHOOL DISTRICT  
BID ADDENDUM #1R**

THIS ADDENDUM DOES NOT CHANGE THE SEALED PROPOSALS DUE DATE OF  
JANUARY 16, 2024 BEFORE 2:00PM

Clarifications and changes:

1. CLARIFICATION:  
Sealed proposals are due on TUESDAY, January 16, 2024 before 2:00pm.
2. Copy of mandatory job walk sign-in sheet included in this Addendum.
3. CLARIFICATION:  
Contract time shall be 3/25/2024 – 8/31/2024. Between the dates of 3/25/2024 and 4/01/2024, contractor shall perform all noise-producing demolition work. Any noise-producing construction activities outside of the above dates shall be performed via alternate shift schedule of 3:00pm to 9:00pm on School Days, or on weekends, as approved by District. Alternative shift schedules shall be included in the bid.
4. CLARIFICATION:  
Prior to project completion and after all plumbing fixtures have been installed and tested, the contractor shall assure the sewer pipes connected to the project's scope of work shall be cleaned and inspected for no sediment, debris and construction materials that may plug up the sewerage piping. Upon completion of the cleaning, a video camera shall be used to confirm all materials have been removed. Video shall be provided to District for review. The extent of the cleaning is to the sewer main in the street.
5. CLARIFICATION:  
All access panels shall be lockable with key, not just standard latch.
6. CLARIFICATION:  
No later than 5 calendar days after project is awarded, awarded bidder shall provide a complete schedule of values (SOV).



7. CLARIFICATION:

No later than 10 calendar days after project is awarded, contractor shall provide owner and architect with a complete submittal schedule. Submittal schedule shall indicate all product/equipment lead times. Contractor shall be prepared to order long-lead items immediately upon commencement of project.

8. CLARIFICATION:

Existing flagpole to be demolished. Replace with new at specified location. See specs and detail 12/A1.2.

9. Q: Do all restroom floors require sloped floors?

**A: Slope all multi-stall restroom subfloors at 2% max towards area drains. Single occupancy restroom floors not required to slope.**

10. Q: Please specify waterproofing membrane for tile walls.

**A: Waterproofing at tiled walls in restrooms to be Georgia-Pacific® DensShield® 5/8 x 48" x 96" Tile Backer. All other walls and ceiling inside restrooms to be Type W/R water resistant gyp.**

11. Q: Please specify waterproofing membrane for restroom floors.

**A: Waterproofing layer under resinous flooring to be RedGuard Waterproofing and Crack Prevention Membrane. See attached spec sheet provided.**

**CONTRACTOR TO PROVIDE MIN. TWO COATS OF REDGARD WATERPROOFING MEMBRANE AT ALL FLOORS UNDER FINISH FLOOR EPOXY FINISH. WATERPROOFING MEMBRANE SHALL BE CONTINUOUS AND UP THE WALL MIN. 6" HIGH**

12. CLARIFICATION:

New toilet partitions to be solid phenolic, per Spec.

13. Project Valuation is \$1,654,550.

14. Haz Mat testing has been completed by M3 Environmental. See reports provided in this Addendum.

15. Q: Floor Plans show windows at restrooms. Interior elevations do not show windows. Are windows getting removed?

**A: All existing windows to remain. New furred out plumbing walls to be framed out around existing windows.**

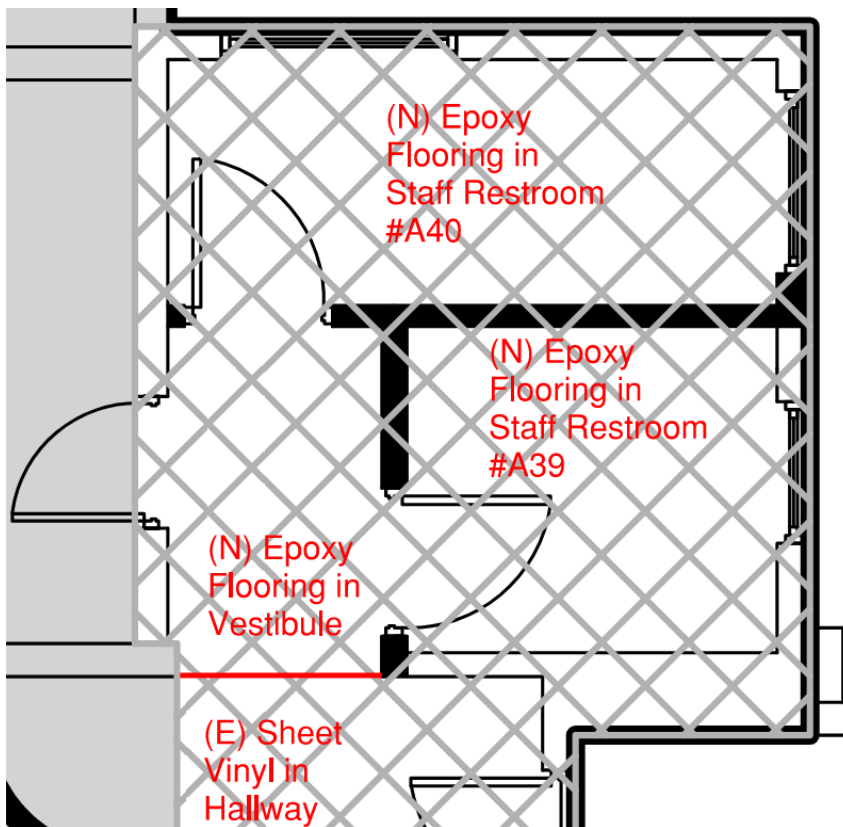
16. Q: How shall restroom wall tile align with door jambs?

**A: Door jamb detail now provided. Tile to be butted up against door jambs with clean grout line separation. See Hollow Metal Frame detail attached.**

17. Q: How will new door jamb tie in to thickened wall conditions?  
**A: New exterior door frame now detailed for existing thickened wall condition. See Hollow Metal Frame detail attached.**

18. Q: Will PG&E upgrade be required?  
**A: Electrical site notes indicate only dealing with Comcast/ATT for overhead utility lines. All PG&E is parallel on the street and underground to the buildings/switchboard. No further coordination should be needed with PG&E.**

19. CLARIFICATION:  
New finish flooring needed in vestibule outside Staff Restrooms #A39 and #A40. Extend new resinous epoxy floor finish from Staff restrooms into vestibule. Provide metal transition strip at seam between sheet vinyl and epoxy flooring.



20. Q: The bid forms and bond forms have various areas (highlighted) that should be completed by the District. Please complete the forms and re-issue.  
**A: Completed bid forms and bond forms to be distributed in additional Addendum to follow.**



21. Q: The designation of subcontractors instruction on page 16 do not call for email and phone numbers and subs to be listed. The sub list form includes email and phone numbers (rightmost column), though the header is italicized and has an asterisk on it. Please clarify whether or not bidders are required to provide sub emails and phone numbers at bid time.

**A: Yes, please provide email and phone numbers for sub list.**

22. Q: Please confirm that materials substitutions are to be provided at bid time. This is not typical. What happens if a substitution request is denied at bid time?

**A: Yes, material substitutions are to be provided at bid time.**

23. Q: Please provide a deadline for submission of prequalification applications by GCs/Subcontractors.

**A: Prequalification documents must be submitted 5 days prior to the Bid Opening.**

24. Q: Sheet A3.1 is calling out for resinous flooring and integral cove in the restrooms while spec section 09650 calls for resilient flooring. Please advise.

**A: All restrooms to receive new resinous epoxy flooring with integral base.**

25. Q: Please provide an updated prequalification list.

**A: Refer to the District's website: [Maintenance and Operations / Contractor Pre-qualifications \(CUPCAA & AB2031\) \(salinascityesd.org\)](http://salinascityesd.org)**

26. CLARIFICATION:

Please NOTE DSA Approved Addendum #01 on this project to include additional Staff Restroom in this project scope of work. Approved Addendum documentation included in this Bid Addendum.

**End of Addendum**



SALINAS CITY ELEMENTARY SCHOOL DISTRICT  
 PRE-BID WALK  
 SIGN-IN SHEET

PROJECT: SHERWOOD ELEMENTARY BUS DROP AND RESTROOM MODERNIZATION

Project No. 2024-01-16-003  
 DSA Application No. 01-119995  
 Bid No. 2024-01-16-003

DATE: 12/18/2023

TIME: 9:00 A.M. LOCATION: SHERWOOD ELEMENTARY SCHOOL

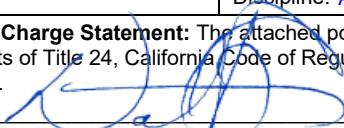
Name	Company	Cell Number	E-Mail
Kenny Padilla <del>Tombleson Inc.</del>	Tombleson Inc.	831-422-9696	stevel@tomblesoninc.com
Bernardino Sanchez	ANGKOR ENGINEERS	831-595-4877	b@angkorinc.com
Matt Sparks	Dilbeck & Sons	831-422-8213	Wkayam@Dilbeckand Sons.com.
Calvin Janson	MPE Monterey Peninsula Engineering	831 920 7866	Calvin@mpe2000.com
Justin Gin	Avila Construction	831-884-4080	Jgin@avilaconst.com
Alvaro R	Atorosa Jocs Landscaping	209 8106196	A(Atorosa)Jocs.com
Maria Garcia	S&H Construction	925-917-3160	Mariajshca@yahoo.com
michael mata	101 BUILDERS inc.	408- 842- 3355	Debbys@101Buildersinc.com
Laura Johnson	JM Electric		LCJ@JmElectric
GARY HARRIS	COASTAL CONSTRUCTION	831 867 2877	garyh@coastalsys.com

DSA Approved Addendum #01  
for  
ADDED  
Staff Restroom Scope

## 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.

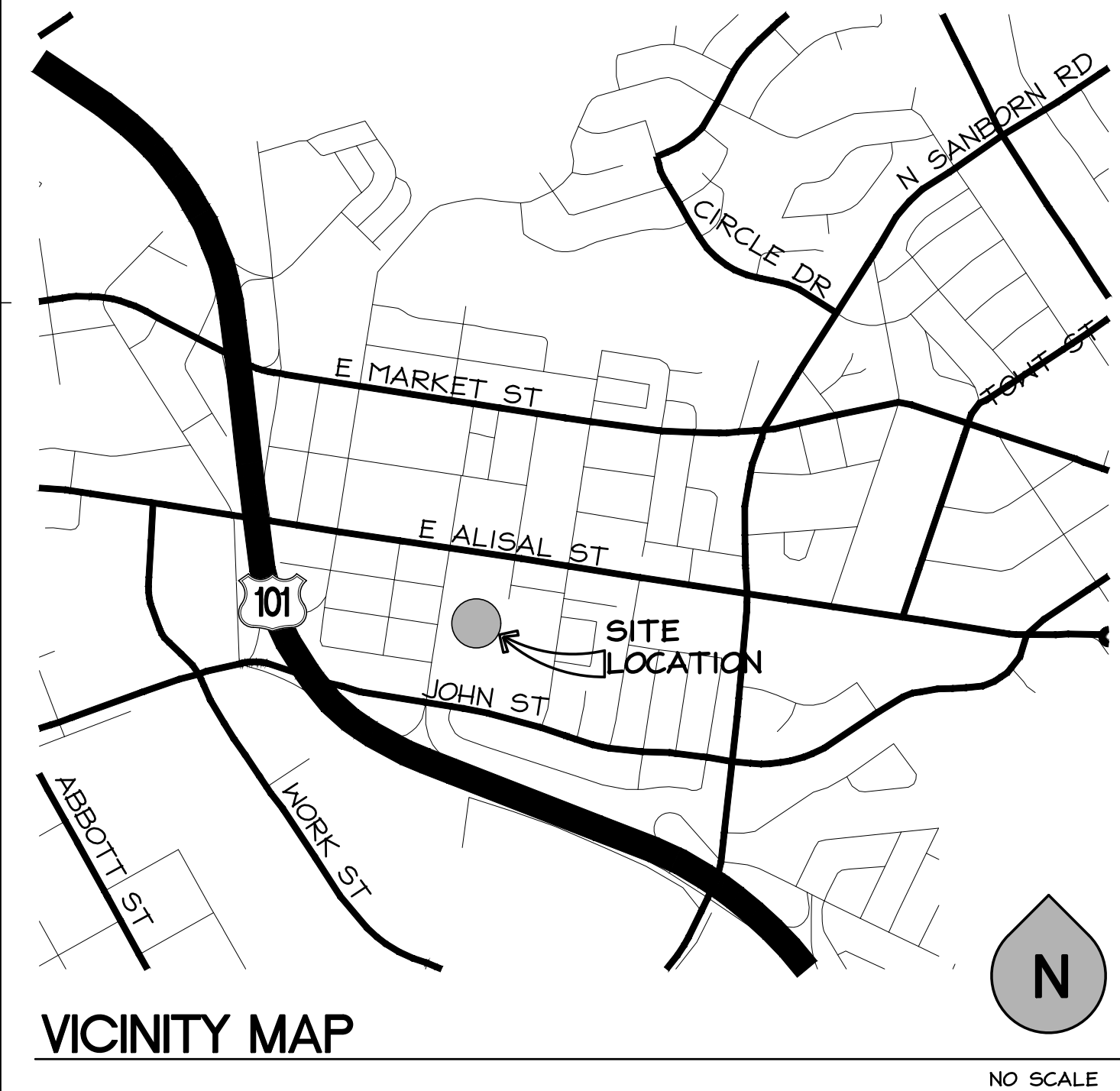
<b>1. SUBMITTAL TYPE: (Is this a resubmittal? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>)</b>			
Deferred Submittal <input type="checkbox"/>	Addendum Number: <b>01</b>	Revision Number:	CCD Number: <span style="float:right">Category A <input checked="" type="checkbox"/> or B <input type="checkbox"/></span>
<b>2. PROJECT INFORMATION:</b>			
School District/Owner: <b>Salinas City Elementary School District</b>		DSA File Number: <b>27 47</b>	
Project Name/School: <b>Sherwood Elementary School</b>		DSA Application Number <b>01 119995</b>	
<b>3. APPLICANT INFORMATION:</b>			
Date Submitted: <b>11/08/23</b>		Attached Pages? No <input type="checkbox"/> Yes <input checked="" type="checkbox"/> Number of pages? <b>19</b>	
Firm Name: <b>Peartree+Belli Architects</b>		Contact Name: <b>Cari Cauley</b>	
Work Email: <b>cari@peartreebelli.com</b>		Work Phone: <b>(831) 424-4620</b>	
Firm Address: <b>235 Monterey Street, Suite B</b>		City: <b>Salinas</b>	State: <b>CA</b> Zip Code: <b>93901</b>
<b>4. REASON FOR SUBMITTAL: (Check applicable boxes)</b>			
<input checked="" 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: <b>David Peartree</b>			
Professional License Number: <b>C-30852</b>		Discipline: <b>Architect of Record</b>	
<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: 		DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE	
<b>6. CONFIRMATION, DESCRIPTION AND LISTING OF DOCUMENTS:</b>			
For addenda, revisions, or CCDs: CHECK THIS BOX <input checked="" 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): <b>Addendum submitted to include one additional Staff Restroom into Scope of Work. We are proposing to convert an existing storage room into Staff Restroom. Fire alarm cut sheets provided as well.</b>			
List of DSA-approved drawings affected by this post-approval document: <b>T1.1, A1.1, A2.7 (added new sheet), A3.1, P0.1, P1.1, P2.1, E3.1, E4.1, E5.1, FA0.1, FA1.1 and FA4.1.</b>			

DSA USE ONLY		Returned	DSA STAMP
SSS <b>Miro Sekel</b> Date <b>11/28/23</b> <input checked="" type="checkbox"/> Approved <input type="checkbox"/> Disapproved <input type="checkbox"/> Not Required		Date:	<div style="border: 2px solid black; border-radius: 15px; padding: 10px; width: fit-content; margin: auto;"> <p style="margin: 0;">APPROVED DIV. OF THE STATE ARCHITECT APP: 01-119995 INC: REVIEWED FOR SS <input checked="" type="checkbox"/> FLS <input checked="" type="checkbox"/> ACS <input checked="" type="checkbox"/> DATE: <u>11/30/2023</u></p> </div>
Comments: _____		By:	
FLS <b>MS</b> Date <b>11/30/23</b> <input checked="" type="checkbox"/> Approved <input type="checkbox"/> Disapproved <input type="checkbox"/> Not Required			
Comments: _____			
ACS <b>EB</b> Date <b>11-27-2023</b> <input checked="" type="checkbox"/> Approved <input type="checkbox"/> Disapproved <input type="checkbox"/> Not Required			
Comments: _____			

# (N) BUS DROP-OFF, PARKING, ACCESS RAMP & RESTROOM MODERNIZATION FOR: SHERWOOD ELEMENTARY SCHOOL

110 SOUTH WOOD STREET, SALINAS, CA 93905  
 SALINAS CITY ELEMENTARY SCHOOL DISTRICT

DSA#: 01-119995  
 DSA FILE #: 27-47  
 OPSC TRACKING #: 66142-72



## SHEET INDEX

<p>T1.1 TITLE SHEET          TP-1 TOPOGRAPHIC MAP</p> <p><b>* CIVIL</b></p> <p>CE1.0 ENCROACHMENT PERMIT -GRADING, DRAINAGE &amp; DEMO PLAN          C1.0 DEMOLITION PLAN          C2.0 GRADING PLAN          C2.1 GRADING DETAILS          C2.2 STANDARD GRADING DETAILS          C3.0 DRAINAGE PLAN          C3.1 DRAINAGE DETAILS</p> <p><b>ARCHITECTURAL</b></p> <p>A0.1 OVERALL SITE PLAN          A1.0 ENLARGED DEMOLITION SITE PLAN          A1.1 ENLARGED SITE PLAN          A1.2 CODE COMPLIANCE DETAILS &amp; SIGNAGE          A1.3 CODE COMPLIANCE DETAILS &amp; SIGNAGE          A1.4 DEMO &amp; PROPOSED PLAN FOR RAMP &amp; SITE STAIR          A1.5 RAMP &amp; SITE STAIR ELEVATIONS AND SECTION          A2.1 DEMO &amp; PROPOSED FLOOR PLAN &amp; ELEVATION - BOYS RR #A65          A2.2 DEMO &amp; PROPOSED FLOOR PLAN &amp; ELEVATION - GIRLS RR #A62          A2.3 DEMO &amp; PROPOSED FLOOR PLAN &amp; ELEVATION - STAFF RR A58 &amp; A59          A2.4 DEMO &amp; PROPOSED FLOOR PLAN &amp; ELEVATION - BOYS RR #A37          A2.5 DEMO &amp; PROPOSED FLOOR PLAN &amp; ELEVATION - GIRLS RR #A36          A2.6 DEMO &amp; PROPOSED FLOOR PLAN &amp; ELEVATION - STAFF RR A33 &amp; A40          A2.7 DEMO &amp; PROPOSED FLOOR PLAN &amp; ELEVATION - STAFF RR A22          A3.1 DOOR &amp; INTERIOR FINISH SCHEDULE          A9.1 INTERIOR DETAILS          A9.2 DETAILS</p> <p><b>* PLUMBING</b></p> <p>P0.1 LEGEND, SCHEDULES AND NOTES - PLUMBING          P1.1 SITE PLAN - PLUMBING          P2.1 ENLARGED RESTROOM PLANS - PLUMBING DEMOLITION AND NEW</p> <p><b>* ELECTRICAL/ FIRE ALARM</b></p> <p>E0.1 SYMBOLS, ABBREVIATION, CODES, STANDARDS, NOTES &amp; SHEET INDEX          E0.2 CALIFORNIA TITLE 24 (BUILDING EXTERIOR)          E0.3 CALIFORNIA TITLE 24 (BUILDING EXTERIOR)          E1.1 ELECTRICAL SINGLE LINE DIAGRAM, DETAILS, &amp; PANELBOARD SCHEDULE          E2.1 OVERALL SITE PLAN          E2.2 PARTIAL ELECTRICAL SITE PLAN &amp; LIGHT FIXTURE SCHEDULE          E3.1 ELECTRICAL DEMOLITION PLAN - RESTROOMS          E4.1 POWER PLAN - RESTROOMS          E5.1 LIGHTING PLAN - RESTROOMS          E6.1 ELECTRICAL DETAILS          E7.1 ELECTRICAL SPECIFICATIONS          FA0.1 FIRE ALARM SYMBOLS, ABBREV., EQUIPMENT LIST, DETAILS &amp; NOTES          FA1.1 FIRE ALARM RISER DIAGRAM, BATTERY &amp; VOLTAGE DROP CALCS          FA4.1 FIRE ALARM PLAN - RESTROOM</p>	<p><b>* LANDSCAPE</b></p> <p>L1.0 PLANTING PLAN          L2.0 IRRIGATION PLAN          L3.0 LANDSCAPE DETAILS          L3.1 IRRIGATION DETAILS          L3.2 IRRIGATION DETAILS</p>
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TOTAL SHEETS: 48

## PROJECT TEAM

<p><b>OWNER:</b>          SALINAS CITY ELEMENTARY SCHOOL DISTRICT          840 S MAIN ST.          SALINAS, CA 93901          CONTACT: DARRELL DANIELS          EMAIL: ddaniels@salinascity.k12.ca.us          PHONE: (831) 753-5643</p> <p><b>CIVIL:</b>          BOWMAN + WILLIAMS          3949 RESEARCH PARK COURT, Suite 100          SOQUEL, CA 95071          CONTACT: SAMANTHA VROOMAN          EMAIL: samanthav@bomanandwilliams.com          PHONE: (831) 426-3560</p> <p><b>MECHANICAL/ PLUMBING:</b>          AXIOM ENGINEERS          22 LOWER RAGSDALE DR, Suite A          MONTEREY, CA 93940          CONTACT: FRANK SOUZA          EMAIL: frank@axiomengineers.com          PHONE: (831) 649-8000</p>	<p><b>ARCHITECT:</b>          BELLI ARCHITECTURAL GROUP          235 MONTEREY ST.          SALINAS, CA 93901          CONTACT: DAVID PEARTREE          EMAIL: david@belliag.com          PHONE: (831) 424-4620</p> <p><b>ELECTRICAL:</b>          AURUM CONSULTING ENGINEERS          CONTACT: NAJIB ANHARY          PHONE: (408) 564-7925          EMAIL: najib@acem.com</p> <p><b>LANDSCAPE ENVIRONMENTAL PLANNING &amp; DESIGN, INC.</b>          CONTACT: MARION WEAVER          PHONE: (831) 596-6664          EMAIL: marion@epdia.com</p>
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## PROJECT DATA

<p>APN: 261-841-002-000          PROJECT ADDRESS: 110 SOUTH WOOD STREET, SALINAS, CA 93905          OWNER: SALINAS CITY ELEMENTARY SCHOOL DISTRICT          840 S MAIN ST, SALINAS, CA 93901</p> <p>(E) OCC. GROUP: E          CURRENT USE: E          ZONING: PS - PUBLIC / SEMIPUBLIC          CONSTRUCTION TYPE: N/A          FIRE SPRINKLER SYSTEM: N/A</p>
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## SCOPE OF WORK

- NEW BUS DROP-OFF, PARKING AND LANDSCAPING
- SELECTED RESTROOM MODERNIZATION IN BUILDING A:
  - ACCESSIBILITY IMPROVEMENTS
  - NEW FINISHES
  - NEW LIGHTING
  - NEW PLUMBING FIXTURES
  - NEW RESTROOM ACCESSORIES
- NOTE: EPOXY SHEAR DOWELS IN UTILITY TRENCH POUR BACK AND NEW CONCRETE CURB IS EXEMPT OF STRUCTURAL TESTS/SPECIAL INSPECTION
- ADDITION OF (N) ACCESSIBLE PEDESTRIAN RAMP

## CODES

- 2022 CALIFORNIA BUILDING STANDARDS ADMINISTRATIVE CODE, PART 1, TITLE 24, C.C.R.  
 2019 CALIFORNIA BUILDING CODE, VOLUMES 1,2; PART 2, TITLE 24, C.C.R. (2015 IBC W/ CA AMENDMENTS)  
 2019 CALIFORNIA ELECTRICAL CODE; PART 3, TITLE 24, C.C.R. (2014 NEC W/ CA AMENDMENTS)  
 2019 CALIFORNIA MECHANICAL CODE; PART 4, TITLE 24, C.C.R. (2015 UMC W/ CA AMENDMENTS)  
 2019 CALIFORNIA PLUMBING CODE; PART 5, TITLE 24, C.C.R. (2015 UPC W/ CA AMENDMENTS)  
 2019 CALIFORNIA ENERGY CODE; PART 6, TITLE 24, C.C.R.  
 2019 CALIFORNIA FIRE CODE (CFC); PART 9, TITLE 24, C.C.R. (2015 IFC W/ CA AMENDMENTS)  
 2019 CALIFORNIA GREEN BUILDING STANDARDS CODE; PART 11, TITLE 24 C.C.R.  
 2019 CALIFORNIA REFERENCE STANDARDS CODE; PART 12, TITLE 24, C.C.R.  
 2019 TITLE 19 C.C.R., PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS  
 2016 NATIONAL FIRE ALARM CODE (NFPA 72)  
 ADA AMERICANS W/ DISABILITIES ACT 2010 STANDARDS FOR ACCESSIBLE DESIGN
- CHAPTER 4, PART 1, TITLE 24, C.C.R., ADMINISTRATIVE REQUIREMENTS (PARTIAL LISTING ONLY)**
- A COPY OF PARTS 1 TO 5, TITLE 24, C.C.R. SHALL BE KEPT ON THE JOB SITE AT ALL TIMES.
  - ALL CONSTRUCTION CHANGE DOCUMENTS AND ADDENDA TO BE SIGNED BY THE ARCHITECT AND THE OWNER AND APPROVED BY DSA. CONSTRUCTION CHANGE DOCUMENTS ARE NOT VALID UNTIL APPROVED BY DSA PER SECTION 4-338, PART 1, TITLE 24.
  - ALL TESTS TO CONFORM TO THE REQUIREMENTS OF SECTION 4-335, PART 1, TITLE 24, AND APPROVED T41 SHEET.
  - TESTS OF MATERIALS AND TESTING LABORATORY SHALL BE IN ACCORDANCE WITH SECTION 4-335 OF PART 1, TITLE 24 AND THE DISTRICT SHALL EMPLOY AND PAY THE LABORATORY. COSTS OF RE-TEST MAY BE BACK CHARGED TO THE CONTRACTOR.
  - DSA SHALL BE NOTIFIED AT THE START OF CONSTRUCTION AND PRIOR TO THE PLACEMENT OF CONCRETE PER SECTION 4-331, PART 1, TITLE 24.
  - INSPECTOR AND TESTING LAB SHALL BE APPROVED BY DSA AND EMPLOYED DIRECTLY BY DISTRICT. INSPECTION SHALL BE IN ACCORDANCE WITH SECTION 4-333(B). THE DUTY OF THE INSPECTOR SHALL BE IN ACCORDANCE WITH SECTION 4-342, PART 1, TITLE 24.
  - SUPERVISION OF CONSTRUCTION BY DSA SHALL BE IN ACCORDANCE WITH SECTION 4-334, PART 1, TITLE 24.
  - CONTRACTOR, INSPECTOR, ARCHITECT, AND ENGINEERS SHALL SUBMIT VERIFIED REPORTS (FORM 955-6) IN ACCORDANCE WITH SECTION 4-336 AND 4-343, PART 1, TITLE 24.
  - THE ARCHITECT AND THE STRUCTURAL ENGINEER SHALL PERFORM THEIR DUTIES IN ACCORDANCE W/ SECTION 4-333(A) AND 4-341, PART 1, TITLE 24.
  - THE CONTRACTOR SHALL PERFORM HIS DUTIES IN ACCORDANCE WITH SECTION 4-343, PART 1, TITLE 24.
  - ALL WORK SHALL CONFORM TO 2019 TITLE 24, CALIFORNIA CODE OF REGULATIONS (CCR).

## SYMBOLS

<p>1 COLUMN LINE</p> <p>A DOOR SYMBOL</p> <p>2 DOOR NUMBER</p> <p>WINDOW TYPE</p> <p>LOUVER TYPE</p> <p>SKIP LETTERS "I" AND "O"</p> <p>REVISIONS PROVIDED FOR PLAN CHECK CHANGES</p> <p>MATCH LINE</p> <p>SHADED PORTION IS THE SIDE UNDER CONSIDERATION</p> <p>WORK POINT, CONTROL POINT OR DATUM POINT</p> <p>BUILDING SECTION</p> <p>DRAWING OR DETAIL NUMBER</p> <p>SHEET NUMBER</p> <p>WALL SECTION</p> <p>DRAWING OR DETAIL NUMBER</p> <p>SHEET NUMBER</p> <p>DETAIL NUMBER</p> <p>SHEET NUMBER</p> <p>INTERIOR ELEVATION</p> <p>ELEVATION IDENTIFICATION (ELEVATIONS UNFOLD CLOCKWISE NO ARROW INDICATES NO ELEVATION SHOWN.)</p> <p>DRAWING OR DETAIL NUMBER</p> <p>SHEET NUMBER</p>	<p>ROOM IDENTIFICATION</p> <p>ROOM NAME</p> <p>ROOM NUMBER</p> <p>NEW OR EXISTING FINISH GRADE (GRADE SHOT)</p> <p>NEW OR FINISHED CONTOURS</p> <p>EXISTING CONTOUR</p> <p>PROPERTY LINE</p> <p>WATER LINE</p> <p>GAS LINE</p> <p>TELEPHONE</p> <p>IRRIGATION</p> <p>SANITARY SEWER</p> <p>OVERHEAD POWER LINE</p> <p>INDUSTRIAL WASTE</p> <p>ELECTRIC</p> <p>STORM DRAIN, INDUSTRIAL</p> <p>STORM DRAIN</p> <p>SITE FENCING</p> <p>DESCRIPTION OF DIMENSION POINT - REFER TO ABBREVIATION LIST</p> <p>DIMENSION POINT TAKEN FROM CENTERLINE OF OBJECT</p> <p>PROVIDE DIMENSION CLEAR FROM OBSTRUCTIONS</p>
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## ABBREVIATIONS

<p>AND</p> <p>ANGLE</p> <p>AT</p> <p>CENTERLINE</p> <p>DIAMETER OR ROUND</p> <p>PERPENDICULAR</p> <p>POUND OR NUMBER</p> <p>EXISTING</p> <p>NEW</p> <p>ARCH. ARCHITECTURAL</p> <p>A.C. ASPHALT CONCRETE</p> <p>BD. BOARD</p> <p>BLDG. BUILDING</p> <p>BLK. BLOCK</p> <p>BLKG. BLOCKING</p> <p>BOT. BOTTOM</p> <p>BTWN. BETWEEN</p> <p>CLG. CEILING</p> <p>CLR. CLEAR</p> <p>COL. COLUMN</p> <p>CONC. CONCRETE</p> <p>CONT. CONTINUOUS</p> <p>CTR. CENTER</p> <p>DBL. DOUBLE</p> <p>DEPT. DEPARTMENT</p> <p>DIA. DIAMETER</p> <p>DIM. DIMENSION</p> <p>DR. DOOR</p> <p>DS. DOWNSPOUT</p> <p>DWG. DRAWING</p> <p>EA. EACH</p> <p>ELEC. ELECTRICAL</p> <p>EQ. EQUAL</p> <p>EXIST. EXISTING</p> <p>EXT. EXTERIOR</p> <p>F.A. FIRE ALARM</p> <p>F.D. FLOOR DRAIN</p> <p>F.E. FIRE EXTINGUISHER</p> <p>F.E.C. FIRE EXTINGUISHER CABINET</p> <p>FIN. FINISH</p>	<p>F.L. FLOOR</p> <p>F.O.F. FACE OF FINISH</p> <p>FT. FOOT OR FEET</p> <p>GA. GAUGE</p> <p>GALV. GALVANIZED</p> <p>GL. GLASS</p> <p>GYP. GYPSUM</p> <p>HDR. HEADER</p> <p>H.M. HOLLOW METAL</p> <p>HORIZ. HORIZONTAL</p> <p>HR. HOUR</p> <p>IN. INCH</p> <p>INSUL. INSULATION</p> <p>INT. INTERIOR</p> <p>LAV. LAVATORY</p> <p>LAV. LAVATORY</p> <p>MAX. MAXIMUM</p> <p>MECH. MECHANICAL</p> <p>MFR. MANUFACTURER</p> <p>MIN. MINIMUM</p> <p>MISC. MISCELLANEOUS</p> <p>N.I.C. NOT IN CONTRACT</p> <p>NO. OR # NUMBER</p> <p>NOT TO SCALE</p> <p>O.C. ON CENTER</p> <p>P. LAM. PLYWOOD</p> <p>P.S.I. POUNDS PER SQUARE INCH</p> <p>R.D. ROOF DRAIN</p> <p>REQ. REQUIRED</p> <p>RM. ROOM</p> <p>R.O. ROUGH OPENING</p> <p>SECT. SECTION</p> <p>SHT. SHEET</p> <p>SIM. SIMILAR</p> <p>SPEC. SPECIFICATION</p> <p>SO. SQUARE</p> <p>TYP. TYPICAL</p> <p>UNLESS OTHERWISE NOTED</p> <p>W/ WITH</p> <p>W.C. WATER CLOSET</p> <p>W/O WITHOUT</p>
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## DSA NOTES

- EXISTING ACCESSIBLE ROUTES TO ALL FACILITIES AND BUILDING THAT ARE OPERATIONAL DURING CONSTRUCTION PHASE SHALL REMAIN UNOBSTRUCTED, SAFE AND USABLE BY PEOPLE WITH DISABILITIES.
  - ADDENDA MUST BE SIGNED BY ARCHITECT AND APPROVED BY DSA.
  - NO CHANGES OR REVISIONS SHALL BE MADE FOLLOWING WRITTEN APPROVAL WHICH AFFECTS ACCESS COMPLIANCE ITEMS UNLESS SUCH CHANGES OR REVISIONS ARE SUBMITTED TO THE DSA APPROVAL.
  - SUBSTITUTIONS AFFECTING DSA REGULATED ITEMS SHALL BE SUBMITTED AS A CONSTRUCTION CHANGE DOCUMENT OR ADDENDA, AND SHALL BE APPROVED BY DSA PRIOR TO FABRICATION AND INSTALLATION.
  - CONSTRUCTION CHANGE DOCUMENTS MUST BE SIGNED BY THE FOLLOWING:
    - ARCHITECT OR ENGINEER OF RECORD.
    - STRUCTURAL ENGINEER (WHEN APPLICABLE)
    - DELEGATED PROFESSIONAL ENGINEER
    - DSA
  - MATERIALS AND THEIR INSTALLATION SHALL COMPLY WITH A APPLICABLE CODES, STANDARDS AND MANUFACTURES RECOMMENDATIONS.
  - PER CBC 11B-104.1 \*ALL DIMENSIONS ARE SUBJECT TO CONVENTIONAL INDUSTRY TOLERANCES EXCEPT WHERE REQUIREMENT IS STATED AS A RANGE WITH SPECIFIC MINIMUM AND MAXIMUM END POINTS.
  - FIRE SAFETY DURING CONSTRUCTION & DEMOLITION WILL BE ENFORCED IN ACCORDANCE WITH CBC & CFC CHAPTER 33.
  - WIND DESIGN DATA PER 2019 CBC, SECTION 1603A.1.4; WIND EXPOSURE "C", V = 92MPH
  - SEISMIC DESIGN DATA PER 2019 CBC, SECTION 1603A.1.5; SEISMIC DESIGN CATEGORY "D", RISK CATEGORY III, SITE CLASS D (DEFAULT)
- Ss = 1.796 Sl = 0.626  
 Fa = 1.2 Fv = null  
 Sms = 2.156 Sml = null  
 Sds = 1.437 Sdl = null

**STATEMENT OF GENERAL CONFORMANCE**

FOR ARCHITECTS/ENGINEERS WHO UTILIZE PLANS, INCLUDING BUT NOT LIMITED TO SHOP DRAWINGS, PREPARED BY OTHER LICENSED DESIGN PROFESSIONALS AND/OR CONSULTANTS. ( APPLICATION NO. 01-119995 FILE NO. 27-47 )

**\*SHEETS:**

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

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

THE STATEMENT OF GENERAL CONFORMANCE \*SHALL NOT BE CONSTRUED AS RELIEVING ME OF MY RIGHTS, DUTIES, AND RESPONSIBILITIES UNDER SECTIONS 17302 AND 8139 OF THE EDUCATION CODE AND SECTIONS 4-336, 4-341 AND 4-344 OF TITLE 24, PART 1, (TITLE 24, PART 1, SECTION 4-317 (b)).

I FIND 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, AND

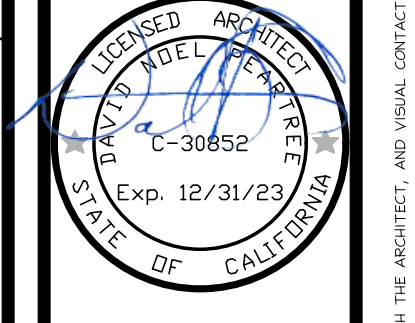
HAS/HAVE BEEN COORDINATED WITH THE PROJECT PLANS AND SPECIFICATIONS

DAVID PEARTREE 11/10/2023  
 ARCHITECT OR ENGINEER DESIGNATED TO BE IN GENERAL RESPONSIBLE CHARGE

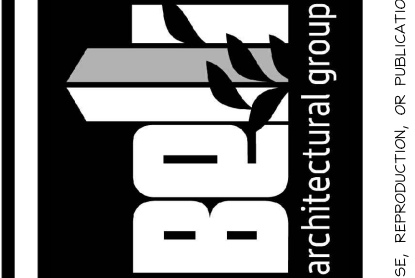
**DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE STATEMENT:**

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

REVISIONS	DATE	DESCRIPTION
CC	01/26/22	1st DSA SUBMITTAL
CC	11/22/22	DSA BACK CHECK
CC	05/17/23	DSA BACK CHECK #2
CC	06/30/23	DSA BACK CHECK #3
CC	11/01/23	ADDENDUM #001



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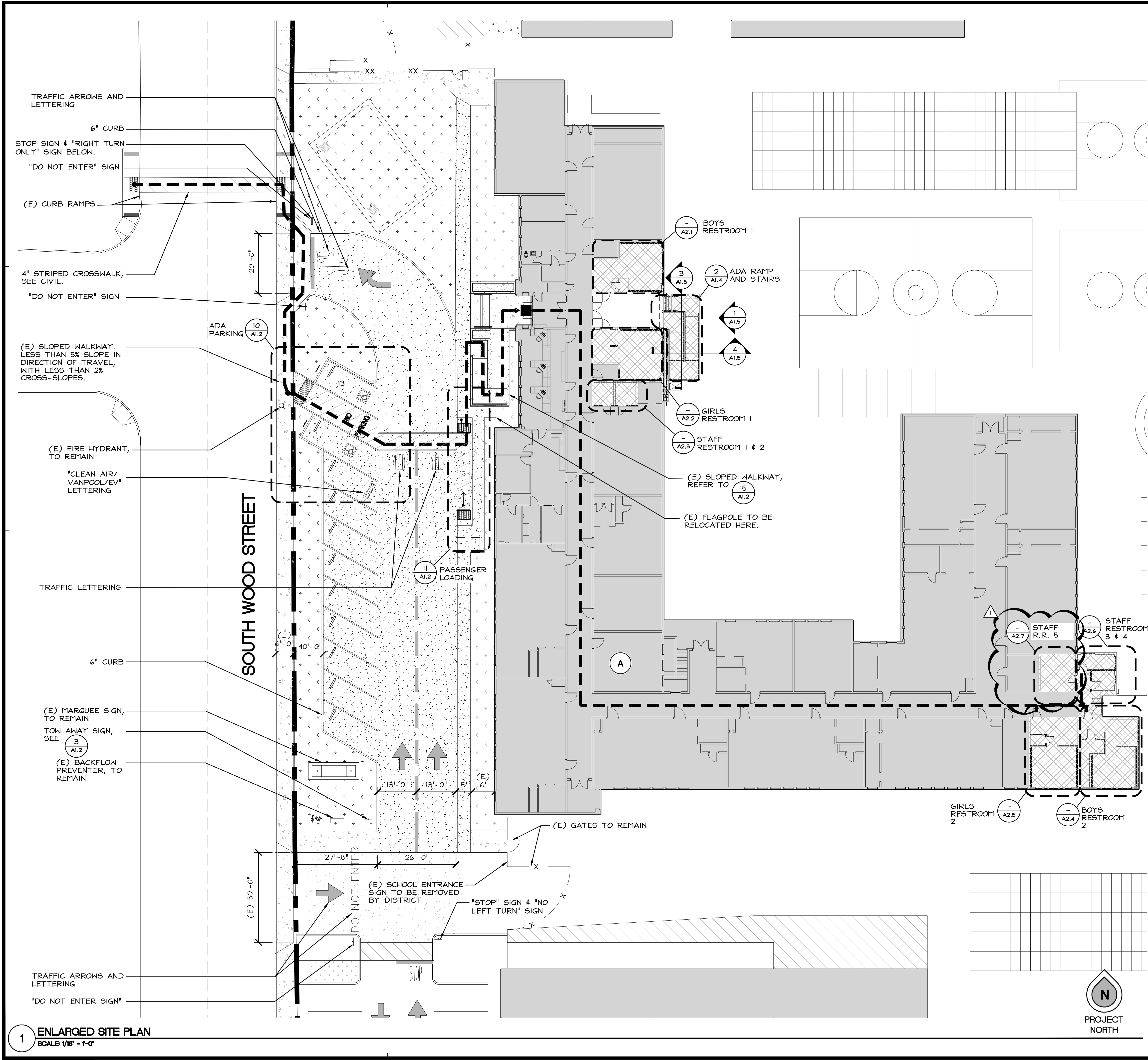


**TITLE SHEET**

NEW BUS DROP-OFF AND PARKING FOR:  
**SHERWOOD ELEM. SCHOOL**  
 110 SOUTH WOOD STREET  
 SALINAS, CA 93905

DATE 11/10/2023  
 SCALE A5 NOTED  
 DRAWN CC/TM  
 JOB 20035  
 SHEET T1.1  
 OF SHEETS





### GENERAL NOTES

- CONTRACTOR TO VERIFY ALL EXISTING CONDITION IN THE FIELD AND SHOULD REPORT IN WRITING TO ARCHITECT ANY AND ALL ITEMS THAT DEVIATE FROM DRAWING.
- PATH OF TRAVEL AS INDICATED IS A BARRIER FREE ACCESS W/O UT ANY ABRUPT VERTICAL CHANGES EXCEEDING 1/2" @ 1:20 MAX SLOPE, EXCEPT THAT LEVEL CHANGES DO NOT EXCEED 1/4" VERTICAL.
- CONTRACTOR TO VERIFY THAT ALL BARRIERS IN THE PATH OF TRAVEL HAVE BEEN REMOVED PER SECTION 1023.
- PATH OF TRAVEL SHALL BE SLIP RESISTANT WITH MAX CROSS-SLOPE 2% (TYP.), VERIFY ALL SPOT ELEVATIONS.
- EVERYTHING SHOWN IS EXISTING TO REMAIN U.O.N.

### LEGEND

(travel distance) 400'

--- ACCESSIBLE PATH OF TRAVEL (ONE FOOT-CANDLE SHALL BE MAINTAINED THE FULL WIDTH OF EGRESS PATH OF TRAVEL)

--- PROPERTY LINE

(A) BUILDING LABEL

(E) FIRE HYDRANT (U.O.N.) (SYMBOL SHOWN LARGER FOR CLARITY)

(E) A/C PAVING TO REMAIN

(E) LANDSCAPING TO REMAIN

(E) CONCRETE TO REMAIN

(E) BUILDING

AREA OF (E) BUILDING MODIFICATIONS

(N) A/C PAVING

(N) CONCRETE

(N) LANDSCAPING, SEE LANDSCAPE DRAWINGS.

ACCESSIBLE ENTRY, SEE (5) (3) (A1.2) (A1.3)

### ACCESSIBILITY STATEMENT BY DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE

THE PATH OF TRAVEL (POT) INDICATED IN THESE CONSTRUCTION DOCUMENTS IS COMPLIANT WITH CURRENT APPLICABLE CALIFORNIA BUILDING CODE ACCESSIBILITY PROVISIONS FOR PATH OF TRAVEL REQUIREMENTS FOR ALTERATIONS, ADDITIONS AND STRUCTURAL REPAIRS.

AS PART OF THE DESIGN OF THIS PROJECT, THE POT WAS EXAMINED, AND ANY ELEMENTS, COMPONENTS OR PORTIONS OF THE POT THAT WERE DETERMINED TO BE NONCOMPLIANT (1) HAVE BEEN IDENTIFIED; AND (2) THE CORRECTIVE WORK NECESSARY TO BRING THEM INTO COMPLIANCE HAS BEN INCLUDED WITHIN THE SCOPE OF THIS PROJECT'S WORK THROUGH DRAWINGS, DETAILS, SPECIFICATIONS INCORPORATED INTO THESE CONSTRUCTION DOCUMENTS.

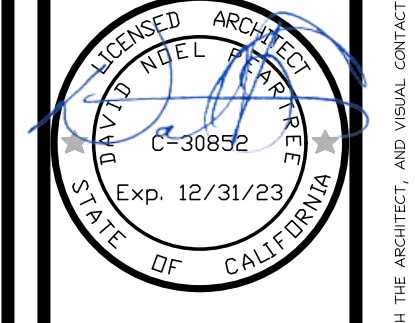
ANY NONCOMPLIANT ELEMENT, COMPONENT OR PORTION OF THE POT THAT WILL NOT BE CORRECTED BY THIS PROJECT, BASED ON A VALUATION THRESHOLD LIMITATION OR A FINDING OF A UNREASONABLE HARDSHIP, IS SO INDICATED IN THESE CONSTRUCTION DOCUMENTS.

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

### PATH OF TRAVEL

ACCESSIBLE ROUTE OF TRAVEL AS INDICATED ON PLAN IS A BARRIER-FREE ACCESS ROUTE WITHOUT ANY ABRUPT LEVEL CHANGES EXCEEDING 1/2" IF BEVELED AT 1:2 MAX SLOPE, 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 1:48 (2%) AND SLOPE IN DIRECTION OF TRAVEL IS LESS THAN 1:20 (5%), UNLESS OTHERWISE INDICATED. ACCESSIBLE ROUTE 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 ROUTE OF TRAVEL.

REVISIONS	DATE	BY	DESCRIPTION
1	01/26/22	CC	1st DSA SUBMITTAL
2	11/22/22	CC	DSA BACK CHECK
3	05/27/23	CC	DSA BACK CHECK #2
4	06/30/23	CC	DSA BACK CHECK #3
5	11/02/23	CC	APPENDIX #001



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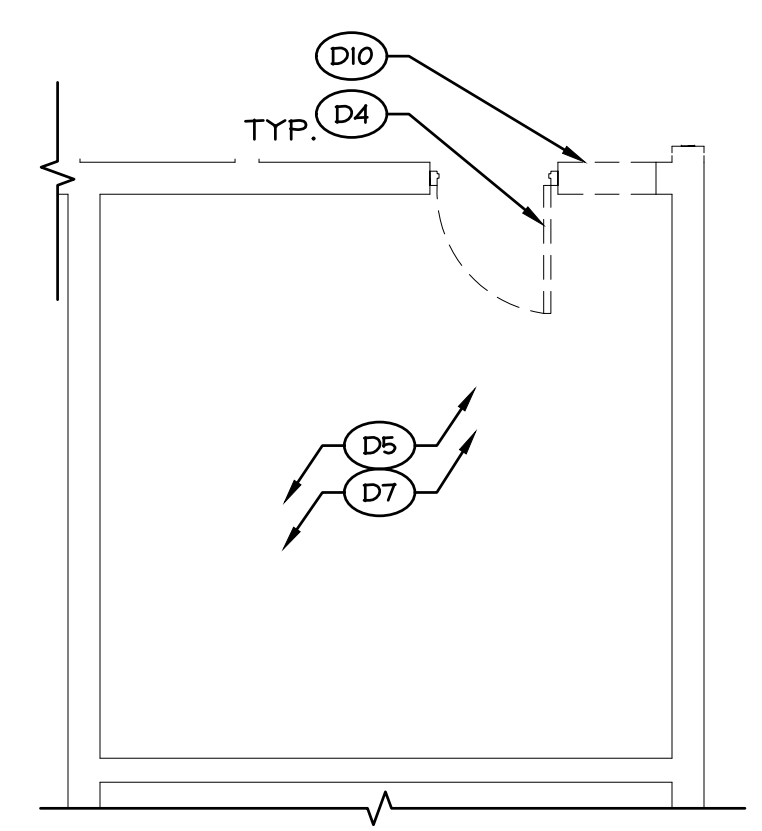


ENLARGED SITE PLAN  
 NEW BUS DROP-OFF AND PARKING FOR:  
**SHERWOOD ELEM. SCHOOL**  
 110 SOUTH WOOD STREET  
 SALINAS, CA 93905

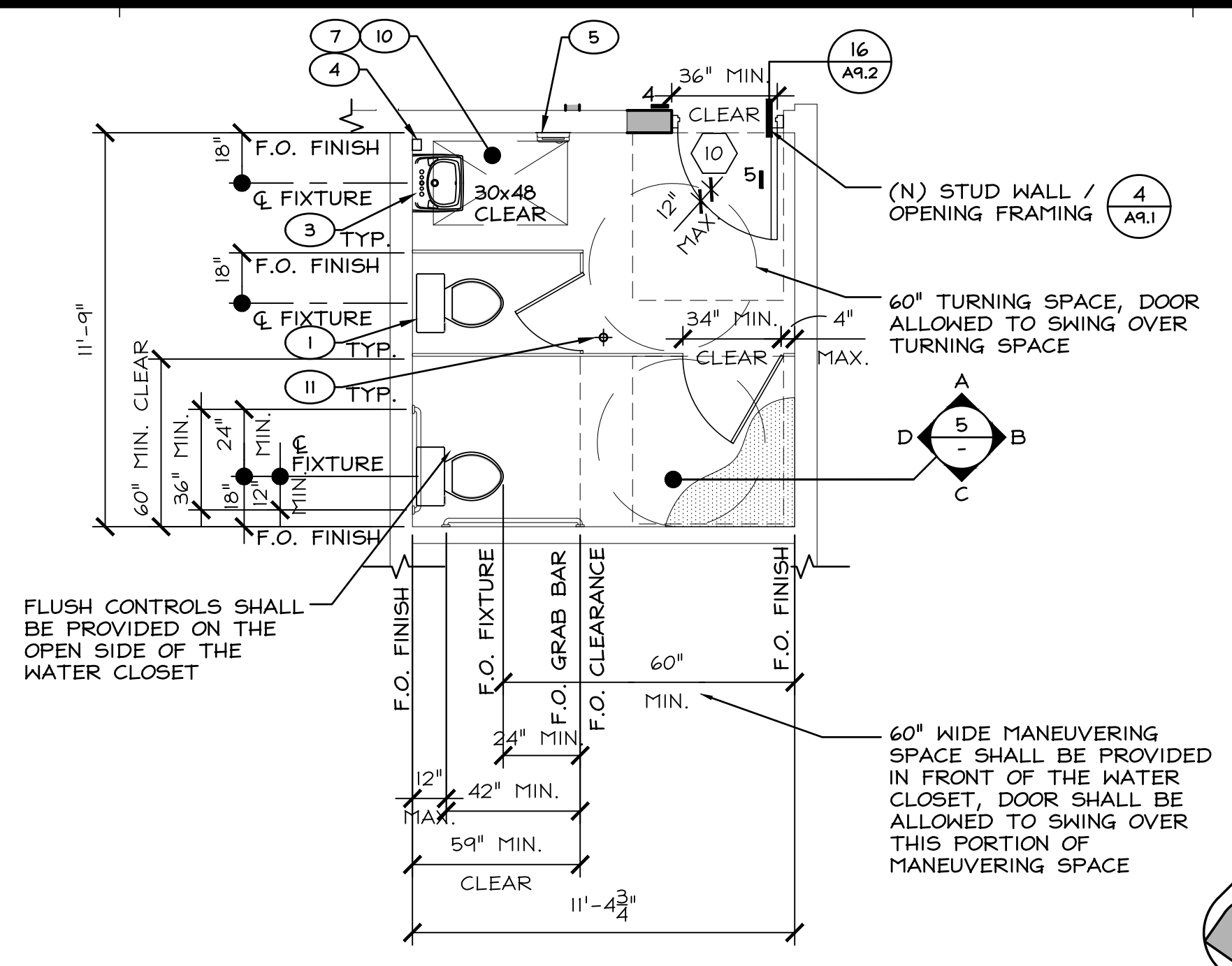
DATE: 11/10/2023  
 SCALE: AS NOTED  
 DRAWN: YP/JN  
 JOB: 20035  
 SHEET: **A1.1**

1 ENLARGED SITE PLAN  
 SCALE: 1/8" = 1'-0"

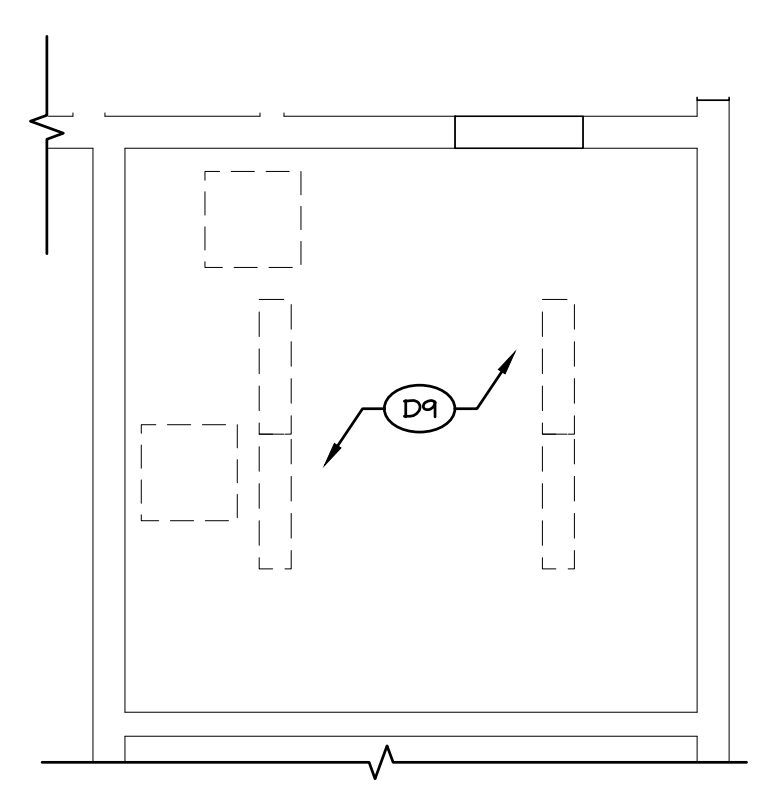
THE USE OF THESE PLANS AND SPECIFICATIONS SHALL BE RESTRICTED TO THE ORIGINAL SITE FOR WHICH THEY WERE PREPARED AND PUBLICATION THEREOF IS EXPRESSLY LIMITED TO SUCH USE. REUSE, REPRODUCTION, OR PUBLICATION BY ANY OTHER PARTY IS PROHIBITED. TITLE TO THE PLANS AND SPECIFICATIONS REMAINS WITH THE ARCHITECT, AND VISUAL CONTACT WITH THEM CONSTITUTES IRREVOCABLE EVIDENCE OF THE ACCEPTANCE OF THESE RESTRICTIONS.



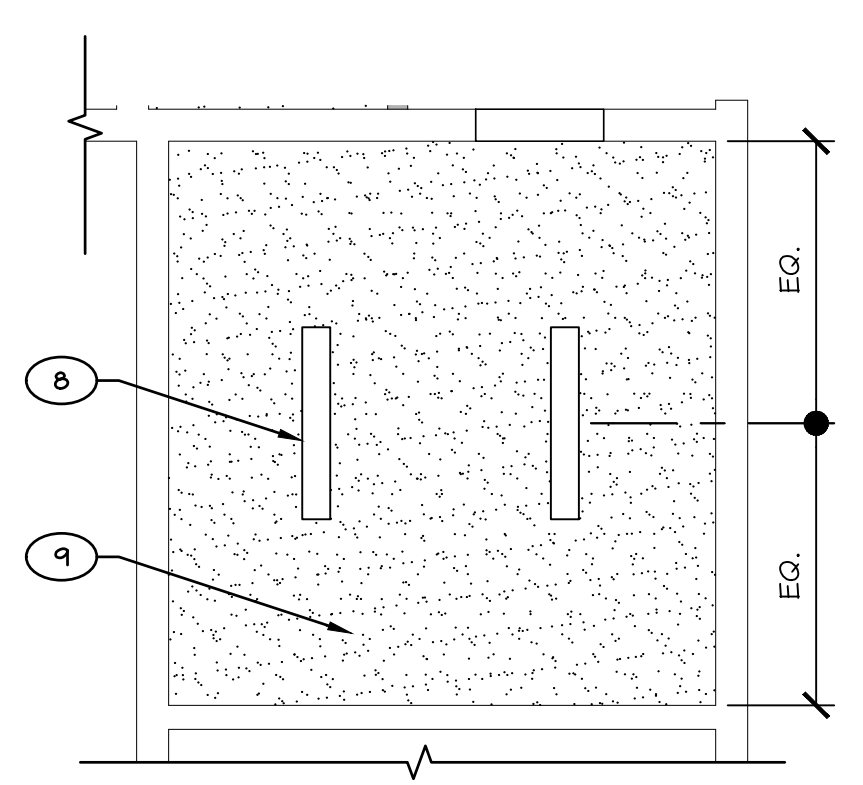
1 DEMOLITION FLOOR PLAN - STAFF R.R. A42  
 SCALE 1/4" = 1'-0"



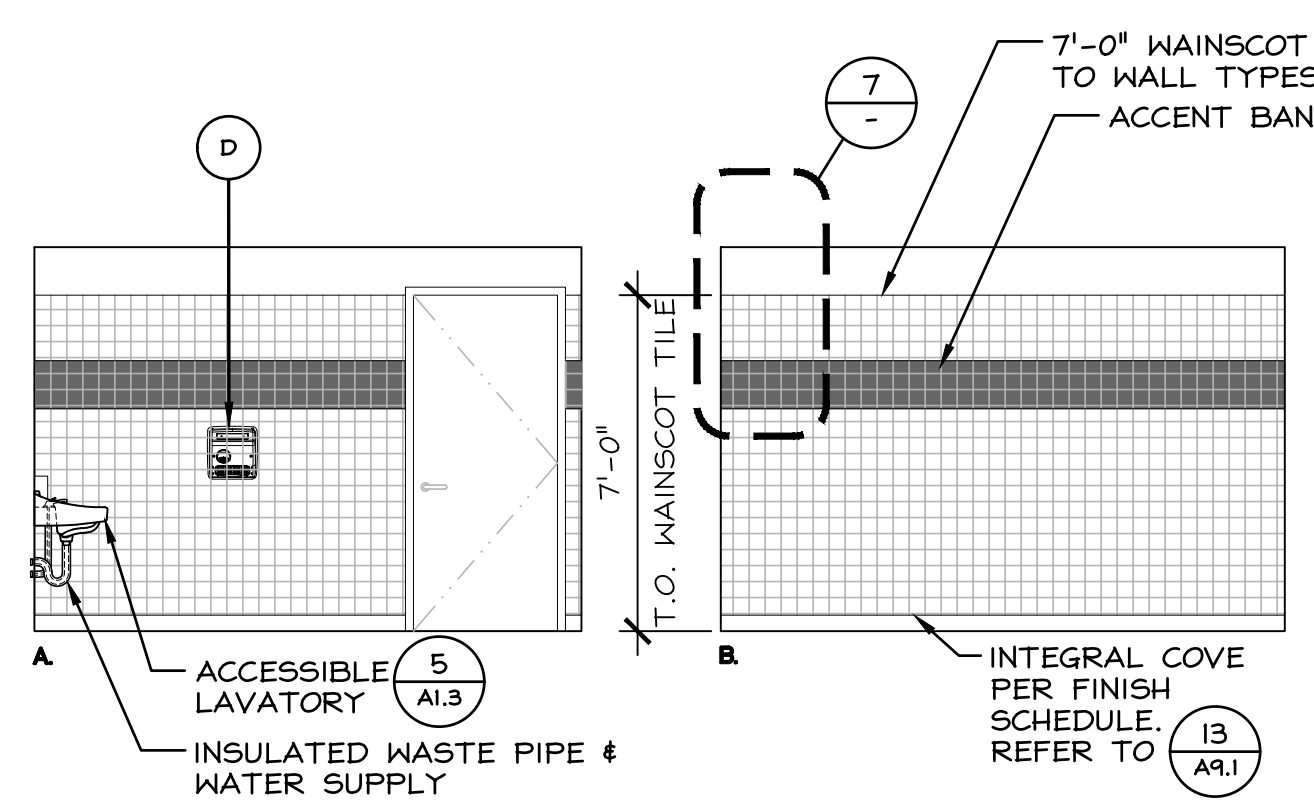
2 PROPOSED FLOOR PLAN - STAFF R.R. A42  
 SCALE 1/4" = 1'-0"



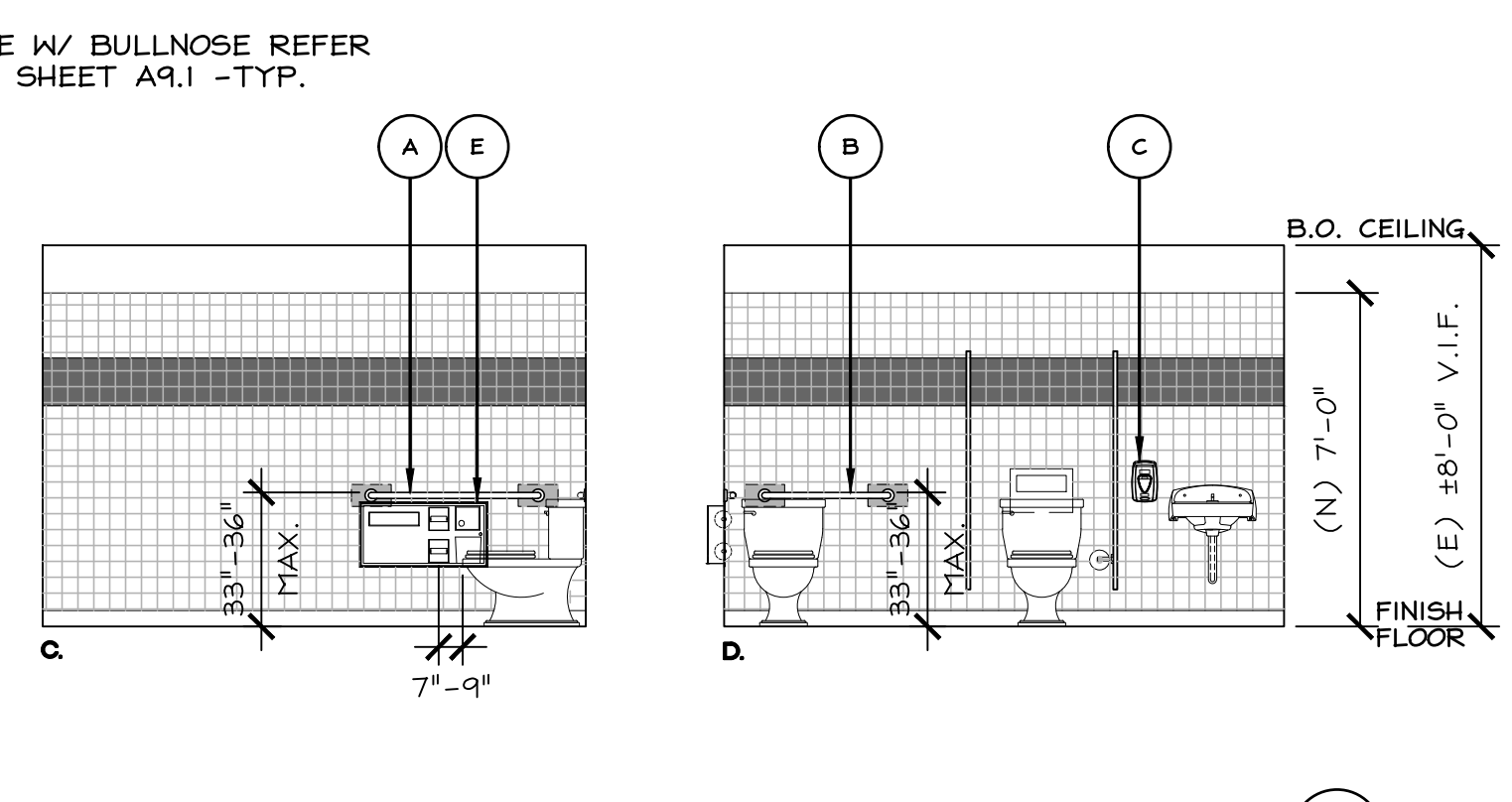
3 DEMOLITION RCP - STAFF R.R. A42  
 SCALE 1/4" = 1'-0"



4 PROPOSED RCP - STAFF R.R. A42  
 SCALE 1/4" = 1'-0"



5 INTERIOR ELEVATIONS - STAFF R.R. A42  
 SCALE 1/4" = 1'-0"

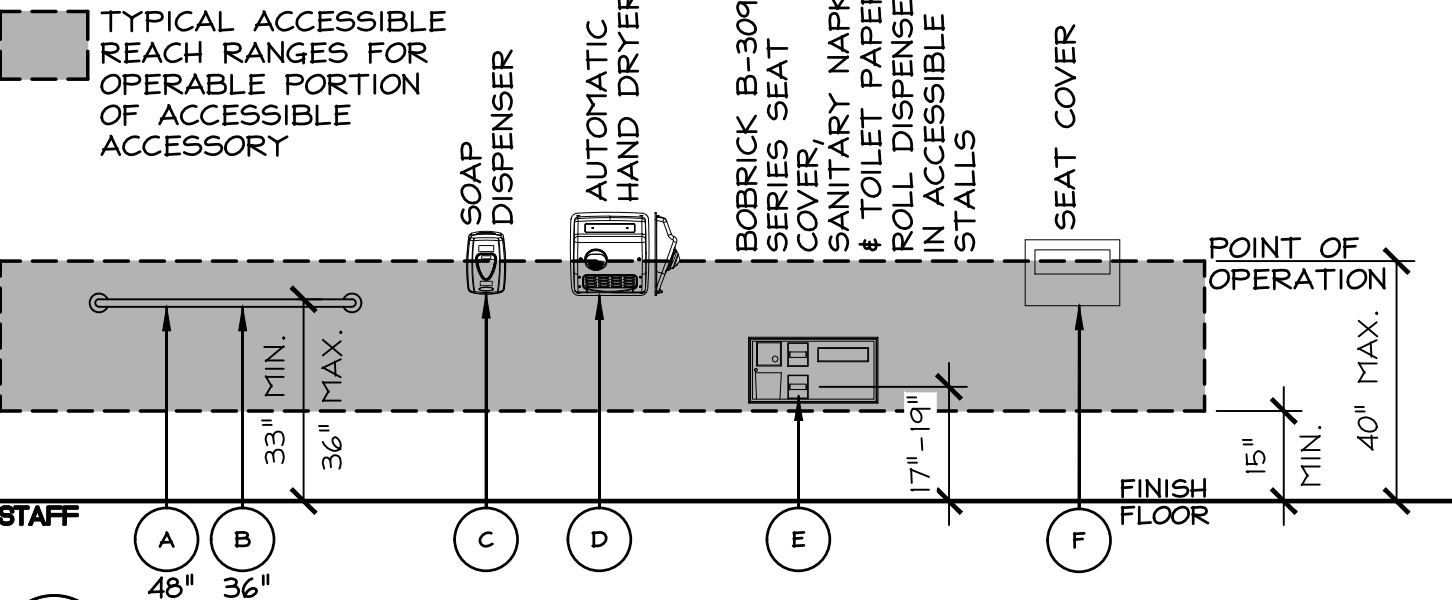


\* NOTE: RESTROOM ACCESSORIES HEIGHT REFER TO (6)

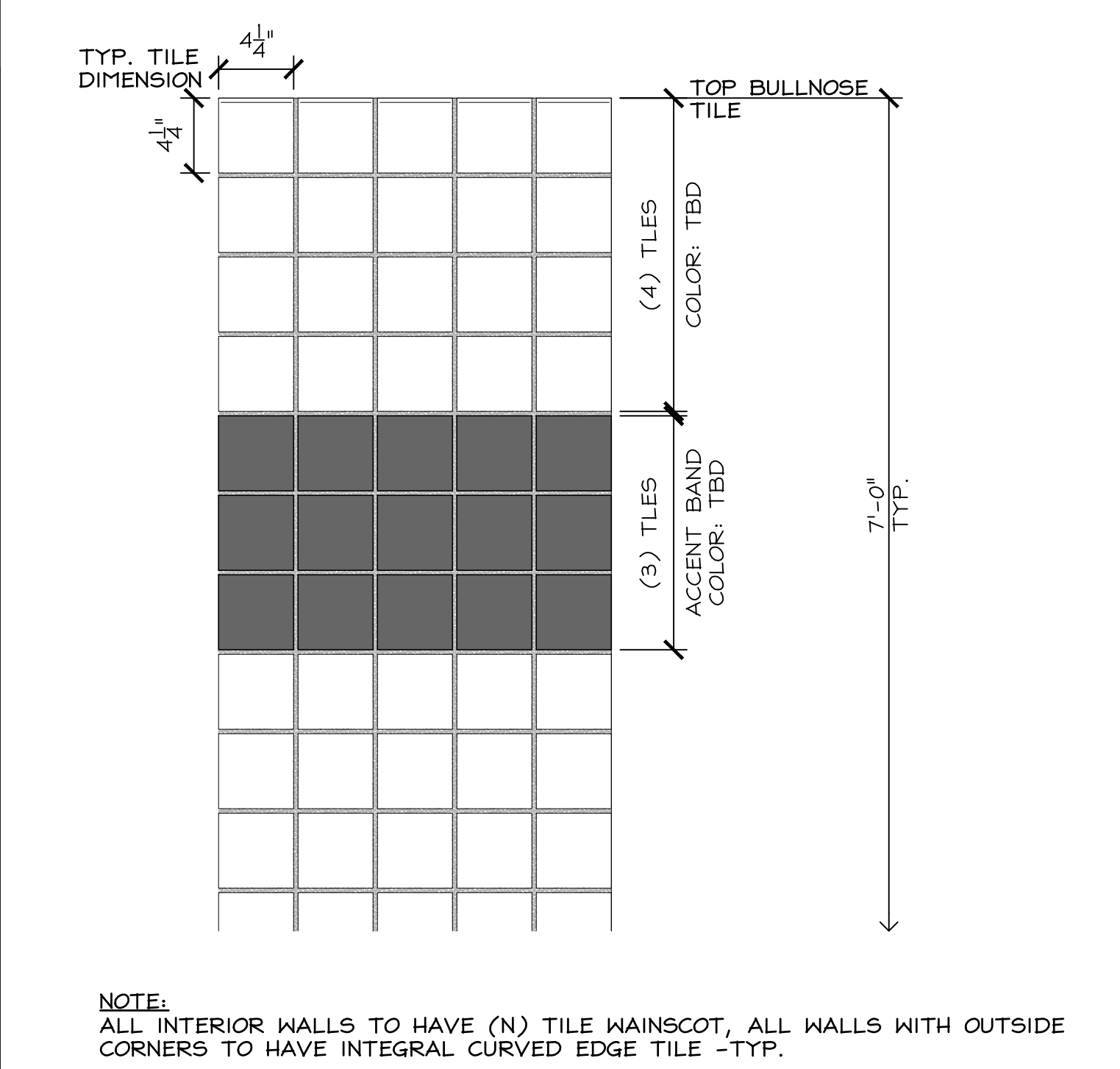
SYMBOL	DESCRIPTION
(A)	48" GRAB BAR (SIDE WALL)
(B)	36" GRAB BAR (REAR WALL)
(C)	SOAP DISPENSER TO BE PROVIDED BY OWNER
(D)	RECESSED AUTOMATIC HAND DRYER TO BE APPROVED BY OWNER
(E)	RECESSED SEAT COVER, DBL ROLL TOILET PAPER & NAPKIN DISPENSER

INTERIOR ELEVATIONS GENERAL NOTES

- PROVIDE CLEAR FLOOR SPACE AT ADA COMPLIANT ACCESSORIES, REFER TO ENLARGED PLANS
- INSTALL ADA COMPLIANT ACCESSORIES PER MANUFACTURER'S RECOMMENDATIONS REFER BELOW FOR MOUNTING HEIGHTS



6 RESTROOM ACCESSORIES AND MOUNTING HEIGHTS  
 SCALE 1/4" = 1'-0"



7 WALL ACCENT TILE LAYOUT  
 SCALE 1/2" = 1'-0"

GENERAL NOTES

- FOR MOUNTING HEIGHTS REFER TO (6)
- FLUSH VALVE HANDLE ON OPEN SIDE OF ACCESSIBLE TOILET.
- FOR DOOR CLEARANCE REQUIREMENTS, REFER TO (1)
- (N) WALL MOUNTED SIGNAGE, REFER TO (13), (14B), (14C) WOMEN'S RESTROOM
- (N) DOOR MOUNTED SIGNAGE, REFER TO (13), (14C) WOMEN'S RESTROOM
- (N) WALL MOUNTED LAV. (ACCESSIBLE), REFER TO (5)
- FOR STRUCTURAL GENERAL NOTES, REFER TO (6)

DEMOLITION KEYED NOTES

- (D1) (E) TOILET TO BE DEMOLISHED, COMPLETE
- (D2) (E) SINK TO BE DEMOLISHED, COMPLETE
- (D3) (E) WALL MOUNTED ACCESSORIES TO BE DEMOLISHED, COMPLETE
- (D4) (E) DOOR & FRAME TO BE DEMOLISHED, COMPLETE
- (D5) (E) FLOOR FINISH TO BE DEMOLISHED DOWN TO EXISTING FLOOR FRAMING, PREPARE TO RECEIVE (N) THIN SET MORTAR BED PER MANUFACTURER RECOMMENDATIONS.
- (D6) (E) HARD-LID CEILING, LIGHT FIXTURES TO BE DEMOLISHED DOWN TO (E) STUDS, COMPLETE
- (D7) (E) WALL FINISHES TO BE DEMOLISHED DOWN TO (E) STUDS, COMPLETE
- (D8) DEMO (E) WALL, PREP FOR WALL INFILL
- (D9) DEMO (E) EQUIPMENT, LIGHT FIXTURES ETC. IN WAY OF (N) WORK. PATCH AND REPAIR CEILING AS REQUIRED.
- (D10) (E) SECTION OF WALL TO BE DEMOLISHED, COMPLETE. PREP FOR (N) DOOR INSTALL

PROPOSED KEYED NOTES

- PROVIDE (N) TOILET PER SPEC. FLUSH CONTROLS SHALL BE PROVIDED ON THE OPEN SIDE OF THE WATER CLOSET
- PROVIDE (N) PARTITIONS PER SPEC.
- PROVIDE (N) LAVATORY PER SPEC.
- PROVIDE (N) SOAP DISPENSER PER SPEC.
- PROVIDE (N) HAND DRYER PER SPEC. REFER TO DETAIL (16)
- PROVIDE (N) FLOORING PER INTERIOR FINISH SCHEDULE ON SHEET (AS.1)
- PROVIDE (N) WALL TILE WAINSCOT, REFER TO INTERIOR FINISH SCHEDULE & DETAIL (7) TYP.

LEGEND

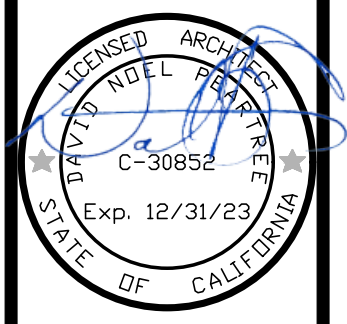
- (E) WALL TO REMAIN
- (E) WALL TO BE DEMOLISHED
- (N) HARD LID CEILING
- (N) WALL INFILL
- 2X4 STUDS @16" O.C. TYP.
- 2X6 STUDS @16" O.C. TYP.
- PLUMBING WALLS
- ROOM NUMBER

DEMOLITION GENERAL NOTES

- REFER TO PLUMBING & ELECTRICAL DEMOLITION DRAWINGS FOR EXTENT OF DEMOLITION OF THOSE SYSTEMS.
- PROTECT ALL EXISTING STRUCTURE, SYSTEMS, FINISHES AND GENERAL CONSTRUCTION THAT ARE TO REMAIN THROUGHOUT THE COURSE OF THE WORK TO PREVENT DAMAGE OR LOSS. ANY SUCH DAMAGE CAUSED DURING THE COURSE OF THIS WORK SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE BEFORE THIS WORK IS CONCLUDED.
- OPERATING SYSTEMS, UTILITIES AND SERVICES SERVING THE EXISTING SITE SHALL BE MAINTAINED IN OPERATION TO SERVE THE NEEDS OF PORTIONS OF THE BUILDING AND SITE NOT INVOLVED IN THE WORK UNDER THIS CONTRACT AT ALL TIMES DURING THE PROGRESS OF THE WORK UNDER THIS CONTRACT, EXCEPT FOR SUCH SHORT PERIODS AS ARE ABSOLUTELY NECESSARY TO PERFORM THE WORK. SUCH OPERATING SYSTEMS, UTILITIES AND SERVICES INCLUDE BUT ARE NOT LIMITED TO WATER, ELECTRICITY, HVAC, SANITARY, SEWER, FIRE ALARM, TELEPHONE AND SECURITY. CONTRACTOR TO COORDINATE WITH DISTRICT.
- CONTRACTOR IS RESPONSIBLE FOR ALL PATCHING NECESSARY TO EXECUTE THE (N) WORK. ALSO REFER TO (7), (11)
- CONTRACTOR IS RESPONSIBLE FOR DEMOLISHING AND REMOVING ALL MATERIALS FROM PREMISES IN ORDER TO ACCOMPLISH THE SCOPE OF THE (N) WORK. CONTRACTOR TO COORDINATE WITH DISTRICT.
- (E) PLUMBING, FIXTURES, TOILET PARTITIONS, TOILET ACCESSORIES, LIGHT FIXTURES, DOORS, ETC., TO BE DEMOLISHED COMPLETE. SALVAGE ITEMS WHERE NOTED. DOORS SHOWN DEMOLISHED INCLUDE DOOR FRAME, U.O.N., REFER TO DOOR SCHEDULE.
- REMOVE & REINSTALL (E) SURFACE MOUNTED ITEMS IN AREA OF (N) WORK AS REQUIRED FOR NEW WORK.
- CONTRACTOR IS TO VERIFY UTILITY LINE LOCATIONS AND MAINTAIN THOSE THAT SERVE OTHER PARTS OF THE BUILDING THAT ARE NOT AFFECTED BY THE DEMOLITION.
- ALL WORK WILL BE PERFORMED IN THE BEST WORKMANSHIP POSSIBLE IN ACCORDANCE WITH THAT TRADE'S BEST INDUSTRY STANDARDS AND CODE REQUIREMENTS.
- DEMOLITION CONTRACTOR IS TO ARRANGE FOR SHUT OFF OF EXISTING UTILITIES. CONTRACTOR SHALL ARRANGE ALL TEMPORARY POWER (AS NECESSARY).
- NOISE AND DUST IS NOT TO BE DISRUPTIVE TO THE OCCUPIED AREA OF THE BUILDING. PROVIDE TEMPORARY PARTITIONS AS REQUIRED.
- DEMOLITION IS TO BE DONE IN A CAREFUL AND ORDERLY MANNER SO AS NOT TO DAMAGE FINISHES OR EQUIPMENT TO REMAIN.
- CONTRACTOR TO OBTAIN & COMPLY WITH ALL BUILDING RULES & REGULATIONS.
- CONTRACTOR TO PROTECT ALL (E) FOUNDATIONS TO PREVENT DAMAGE DURING CONSTRUCTION

- PROVIDE (N) LED LIGHT FIXTURE PER (N) LIGHT FIXTURE SCHEDULE ON ELECTRICAL SHEETS & REFER TO (3)
- (N) GYP. BD. SKIM COAT & PAINT PER (N) SPEC. REFER TO DETAIL (1)
- (N) EPOXY FLOORING -TYP.
- PROVIDE (N) FLOOR DRAIN PER RESTROOM. REFER TO PLUMBING DRAWING AND DETAIL (5), (6)
- INFILL (E) WALL OPENING. REFER TO (14)

REVISIONS	DATE	BY	DESCRIPTION
1	01/26/23	CC	ISSUE SUBMITTAL
2	11/22/23	CC	DSA BACK CHECK
3	05/22/23	CC	DSA BACK CHECK #2
4	06/30/23	CC	DSA BACK CHECK #3
5	11/10/23	CC	ADDENDUM #001



BELLI ARCHITECTURAL GROUP, INC.  
 235 MONTEREY STREET, SUITE B, SALINAS, CA 93901  
 BELLIGROUP.COM



DEMO & PROPOSED FLOOR PLAN & ELEV. - STAFF RR A42  
 NEW BUS DROP-OFF AND PARKING FOR  
**SHERWOOD ELEM. SCHOOL**  
 110 SOUTH WOOD STREET  
 SALINAS, CA 93905

DATE: 11/10/2023  
 SCALE: AS NOTED  
 DRAWN: TM  
 JOB: 20035  
 SHEET: A27

## DOOR SCHEDULE

Revision Number	Frame										Door									
	Number	Size	Type	Description	Rating	Material	Finish	Dr. Mat.	Thickness	Finish	Hardware	Door Signage	Head & Jamb Detail	Threshold	Remarks	Location	Sheet	Number		
1	3'-0" X 7'-0"	A	MAN DOOR		--	HM	PT	SC	1 3/4"	PT	01	14D/A1.3	3/A9.1	3/A1.3	--	BOY'S R.R. A65	A2.1	1		
2	3'-0" X 7'-0"	A	MAN DOOR		--	HM	PT	SC	1 3/4"	PT	01	14C/A1.3	3/A9.1	3/A1.3	--	GIRL'S R.R. A62	A2.2	2		
3	3'-0" X 7'-0"	A	MAN DOOR		--	HM	PT	SC	1 3/4"	PT	02	14F/A1.3	3/A9.1	3/A1.3	--	STAFF R.R. A58	A2.3	3		
4	3'-0" X 7'-0"	A	MAN DOOR		--	HM	PT	SC	1 3/4"	PT	02	14F/A1.3	3/A9.1	3/A1.3	--	STAFF R.R. A59	A2.3	4		
5	3'-0" X 7'-0"	A	MAN DOOR		--	HM	PT	SC	1 3/4"	PT	01	14D/A1.3	3/A9.1	3/A1.3	--	BOY'S R.R. A37	A2.4	5		
6	3'-0" X 7'-0"	A	MAN DOOR		--	HM	PT	SC	1 3/4"	PT	01	14C/A1.3	3/A9.1	3/A1.3	--	GIRL'S R.R. A36	A2.5	6		
7	3'-0" X 7'-0"	A	MAN DOOR		--	HM	PT	SC	1 3/4"	PT	02	14F/A1.3	3/A9.1	3/A1.3	--	STAFF R.R. A39	A2.6	7		
8	3'-0" X 7'-0"	A	MAN DOOR		--	HM	PT	SC	1 3/4"	PT	02	14F/A1.3	3/A9.1	3/A1.3	--	STAFF R.R. A40	A2.6	8		
9	3'-0" X 7'-0"	A	MAN DOOR		--	HM	PT	SC	1 3/4"	PT	03	N/A	3/A9.1	3/A1.3	--	GIRL'S R.R. A36	A2.5	9		
10	3'-0" X 7'-0"	A	MAN DOOR		--	HM	PT	SC	1 3/4"	PT	02	14F/A1.3	3/A9.1	3/A1.3	--	STAFF R.R. A42	A2.7	10		

## DOOR HARDWARE SCHEDULE

### HARDWARE GROUP: 01

QTY.	DESCRIPTION	CATALOG NUMBER	FINISH	MFR.
3 EA	HINGE	5BBI 4.5 X 4.5 NRP	630	IVE
1 EA	VANDL CLASSROOM LOCK	ND94PD RHO	626	SCH
1 EA	SURFACE CLOSER	4040XP	689	LCH
1 EA	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE
1 EA	FLOOR STOP	FS436	626	IVE
1 EA	GASKETING	1885BK PSA	BK	ZER
1 EA	DOOR SWEEP	253A	A	ZER
1 EA	THRESHOLD	PER DETAIL	AL	ZER

### HARDWARE GROUP: 02

QTY.	DESCRIPTION	CATALOG NUMBER	FINISH	MFR.
3 EA	HINGE	5BBI 4.5 X 4.5 NRP	630	IVE
1 EA	PRIVACY IND. LOCK	C3F	626	VIZ
1 EA	SURFACE CLOSER	4040XP	689	LCH
1 EA	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE
1 EA	FLOOR STOP	FS436	626	IVE
1 EA	GASKETING	1885BK PSA	BK	ZER
1 EA	DOOR SWEEP	253A	A	ZER
1 EA	THRESHOLD	PER DETAIL	AL	ZER

### HARDWARE GROUP: 03

QTY.	DESCRIPTION	CATALOG NUMBER	FINISH	MFR.
3 EA	HINGE	5BBI 4.5 X 4.5 NRP	630	IVE
1 EA	VANDL CLASSROOM LOCK	ND94PD RHO	626	SCH
1 EA	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE
1 EA	GASKETING	1885BK PSA	BK	ZER
1 EA	DOOR SWEEP	253A	A	ZER

### FINISH

SHALL BE US26D, (626 ON BRASS OR BRONZE BASE METAL, 652 ON STEEL BASE METAL AND 630 FOR STAINLESS STEEL MATERIAL).

### HINGES

SIZE TO BE 4.5" X 4.5" UNLESS OTHERWISE INDICATED. WIDTH OF HINGE SHALL BE SUFFICIENT TO CLEAR FRAME AND TRIM WHEN DOOR IS OPEN 90 DEGREES. PROVIDE NON-REMOVABLE PINS (NRP) AT EXTERIOR OUT-SWING DOORS. PROVIDE QUANTITY OF HINGES PER LEAF AS FOLLOWS:  
 A) 2 HINGES TO 60" OF DOOR HEIGHT.  
 B) ADD 1 HINGE FOR EACH ADDITIONAL 30" OF DOOR HEIGHT.

### LOCKS

SHALL BE AS MANUFACTURED BY SCHLAGE LOCK. PROVIDE "ND" SERIES LOCKS WITH "RHODES" (RHO) LEVER DESIGN. CYLINDERS SHALL BE KEYPED TO THE EXISTING SYSTEM

### EXIT DEVICES

SHALL BE AS MANUFACTURED BY VON DUPRIN OF INDIANAPOLIS, INDIANA. DEVICES SHALL BE THE "98" SERIES TYPE. STRIKES TO BE ROLLER TYPE AND DEVICES SHALL HAVE THE "QUIET RETURN" FEATURE. ANY DEVICES WITH LEVERS SHALL HAVE THE HEAVY DUTY "BREAKAWAY" FEATURE.

### GASKETING

PROVIDE FIRE OR DRAFT GASKETING AS APPROVED BY THE SELECTED DOOR MANUFACTURERS APPROVALS AND INSTALLATIONS INSTRUCTIONS FOR "POSITIVE PRESSURE" TESTING PROCEDURES.

### GLAZERS

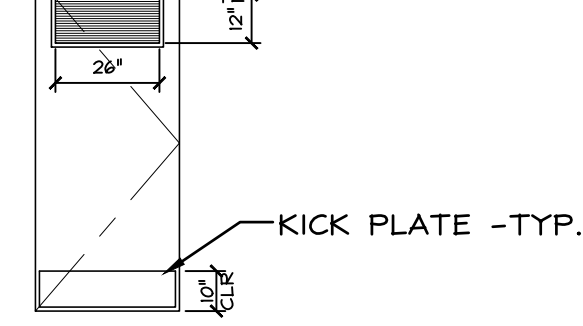
SHALL BE IVES TYPE SR64 (FOR METAL) OR SR65 (FOR WOOD) AND BE PROVIDED AT ALL FRAMES WITHOUT WEATHER-STRIPPING OR GASKETING.

### MANUFACTURERS SYMBOLS

ADA = Adams Rite Mfg.	Aluminum Door Hardware
IVE = Ives	Hinges, Pivots, Bolts, Coordinators, Dust Proof, Strikes, Push Pull & Kick Plates, Door Stops & Silencers
VIZ = VIZLOK	Door Closers
LCN = LCN	Door Shoe
PEM = Pemko	Locks, Latches & Cylinders
SCH = Schlage Lock Company	Continuous Hinge
SEL = Select Products	Exit Devices
VON = Von Duprin	Thresholds, Gasketing & Weather-stripping
ZER = Zer International	

## DOOR TYPE

REFER TO PLAN FOR DIRECTION OF DOOR SWING  
 INTEGRAL VENTILATION LOUVER -TYP.



### CLOSERS

SHALL BE AS MANUFACTURED BY LCN OF PRINCETON, ILLINOIS. CLOSER CYLINDER BODIES SHALL BE OF CAST IRON CONSTRUCTION. PROVIDE EXTRA DUTY ARMS (EDA) AT ALL PARALLEL ARM APPLICATIONS. CLOSERS FOR FIRE-RATED DOORS SHALL HAVE A TEMPERATURE STABILIZING FLUID THAT COMPLIES WITH UBC 7-2 (1997) AND UL10C. CLOSERS SHALL BE POWDER COATED TO MATCH BHM 689. CLOSERS SHALL OPERATE WITH A MAXIMUM FORCE OF 5.0 LBS. FOR INTERIOR AND EXTERIOR DOORS AND FIRE DOORS SHALL HAVE THE MINIMUM OPENING FORCE ALLOWABLE BY THE APPROPRIATE ADMINISTRATIVE AUTHORITY. THESE FORCES DO NOT APPLY TO THE FORCE REQUIRED TO RETRACT LATCH BOLTS OR DISENGAGE OTHER DEVICES THAT HOLD THE DOOR IN A CLOSED POSITION. CLOSERS SHALL BE ADJUSTED SO THAT FROM AN OPEN POSITION OF 90 DEGREES, THE TIME REQUIRED TO MOVE THE DOOR TO AN OPEN POSITION OF 12 DEGREES SHALL BE 5 SECONDS MINIMUM. INSTALL CLOSERS ON ROOM SIDE OF BUILDINGS, DO NOT INSTALL CLOSERS ON EXTERIOR SIDE OF BUILDING OR IN HALLWAYS OR CORRIDORS IF AT ALL POSSIBLE. CLOSERS TO BE INSTALLED WITH SEX OR THROUGH BOLTS.

### FRAME

HM = HOLLOW METAL
ST = STEEL
GS = GALVANIZED STEEL
FG = FIBERGLASS
AL = ALUMINUM
WD = WOOD

### FACING AND FINISH

PT = PAINTED
S = STAIN
FF = FACTORY FINISH

### GLASS

T = TEMPERED
D.G. = DUAL GLAZED

### DOOR CONSTRUCTION

HM = HOLLOW METAL
ST = STEEL
GS = GALVANIZED STEEL
FG = FIBERGLASS
AL = ALUMINUM
SC = SOLID CORE WOOD

## INTERIOR FINISH SCHEDULE

Floor/ Base	Walls/ Wainscot	Ceiling
1 RESINOUS/ RESINOUS INTEGRAL	A GYP. BD. - TAPED, LEVEL 4 FINISH & PAINTED. WAINSCOT TILE, REFER TO INTERIOR ELEVATIONS	1 GYP. BD. - TAPED, LEVEL 4 FINISH & PAINTED

## NOTES

- ALL GYP. BD. TO BE TYPE WR (WATER RESISTANT) 5/8" THICK. SCREENS: ASTM C954/C1002, CORROSION-RESISTANT SELF-TAPPING BUGLE-HEAD SPIRAL-THREADED TYPE, MINIMUM 1" LONG EXCEPT 1-5/8" FOR DOUBLE LAYER WALLS. LENGTHS TO PENETRATE ALL SUPPORTING METAL AT LEAST 3/8". FURNISH SPECIALLY HARDENED TYPE SCREWS FOR SUPPORTS HEAVIER THAN 25 GAGE.
- SPACING: SPACED 12" O.C. IN THE FIELD AND 8" O.C. AT THE WALLBOARD ENDS. WALLBOARD JOINTS TO BE TAPED AND COVERED WITH JOINT COMPOUND. -TYP.

## LEGEND

	CODE	MANUFACTURER	DESIGN	COLOR
RESINOUS FLOORING & INTEGRAL COVE	RF 1	DUR-A-FLEX	HYBRI-FLEX EQ	PER ARCHITECT
PAINT	PNT 1	-	-	TBD
WALL TILE	WT 1	-	-	TBD
WALL TILE (ACCENT)	WT 2	-	-	TBD
GROUT	GR 1	-	-	TBD
TOILET PARTITIONS	TP 1	-	-	TBD

## DOOR SCHEDULE REMARKS

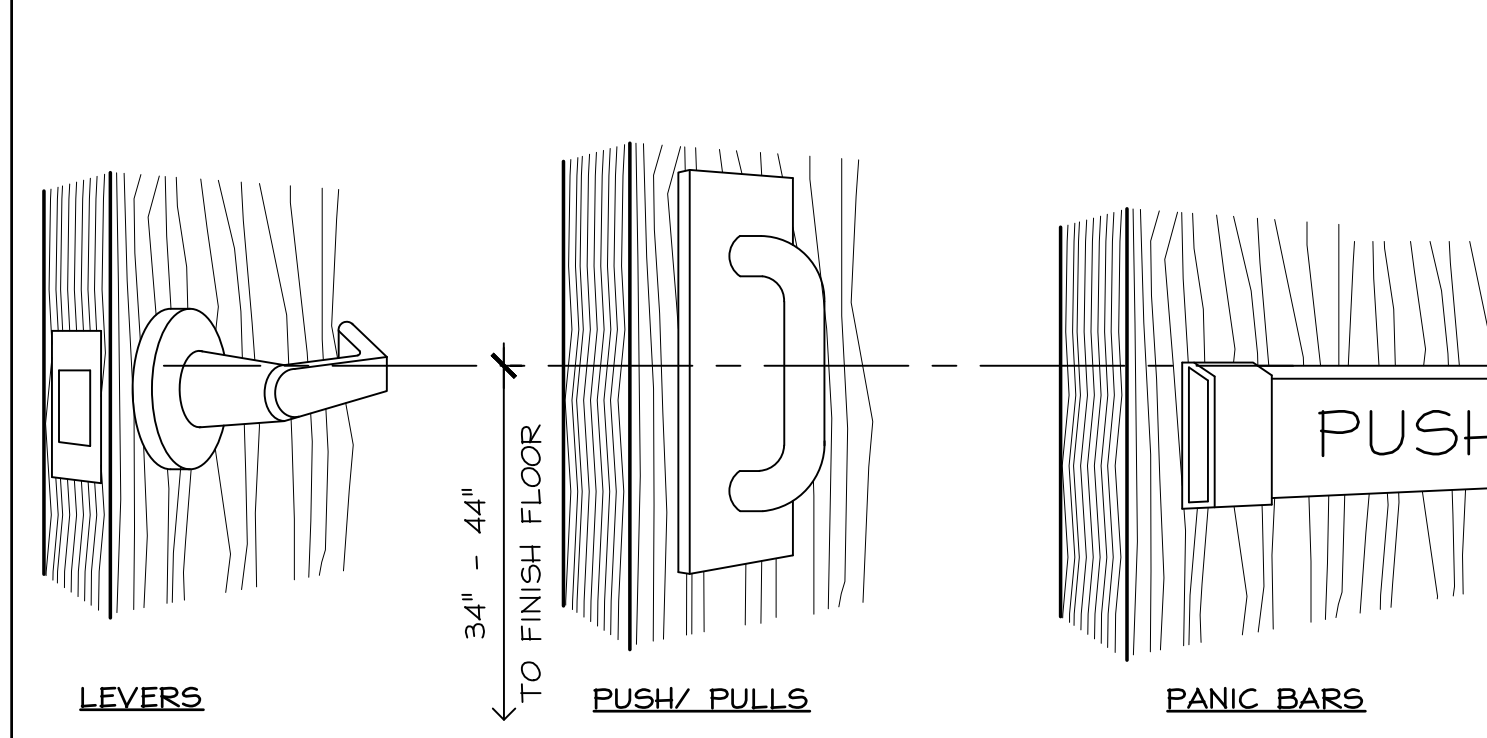
### REMARKS

- PROVIDE WEATHER STRIPPING
- DOOR SHALL BE INSULATED
- PROVIDE CLOSER (1/4" HOLD OPEN DEVICE)
- PROVIDE DEADBOLT W/ OCCUPANCY SIGNAGE AND PUSH/PULL HARDWARE
- PROVIDE 10" HIGH KICK PLATE AT DOOR BOTTOM, BOTH SIDES OF DOOR
- PROVIDE DOOR SIGN "THESE DOORS TO REMAIN UNLOCKED DURING BUSINESS HOURS"
- SHALL BE TESTED AND COMPLIANT WITH CRITERIA ASTM E119

## COLOR AND MATERIAL SELECTION

LOCATION	BLDG. #	ROOM #	FLOOR	BASE	WALLS	ACCENT TILE	CEILING
GIRL'S RESTROOM	G	118	RF 1	RF 1	PNT 1 & WT 1	WT 2	PNT 1
BOY'S RESTROOM	G	123	RF 1	RF 1	PNT 1 & WT 1	WT 2	PNT 1
GIRL'S RESTROOM	H	135	RF 1	RF 1	PNT 1 & WT 1	WT 2	PNT 1
BOY'S RESTROOM	J	133	RF 1	RF 1	PNT 1 & WT 1	WT 2	PNT 1
STAFF ALL-GENDER RESTROOM	P	147	RF 1	RF 1	PNT 1 & WT 1	WT 2	PNT 1
STAFF ALL-GENDER RESTROOM	P	148	RF 1	RF 1	PNT 1 & WT 1	WT 2	PNT 1

NOTE: NO DEADBOLT FOR RESTROOM DOORS. -TYP.



15 DOOR HARDWARE MOUNTING HEIGHT  
 SCALE 6" = 1'-0"

20035-A31 Door Finish Schedule.dwg

## DOOR GENERAL NOTES

### DOOR HARDWARE AND OPERATION

- EGRESS DOORS SHALL BE READILY OPERABLE FROM THE EGRESS SIDE WITHOUT THE USE OF A KEY OR SPECIAL KNOWLEDGE OR EFFORT.
- OPERABLE PARTS SUCH AS DOOR HANDLES, PULLS, LATCHES AND LOCKS SHALL BE OPERABLE WITH ONE HAND AND SHALL NOT REQUIRE TIGHT GRASPING, TIGHT PINCHING OR TWISTING OF THE WRIST TO OPERATE. THE FORCE REQUIRED TO ACTIVATE OPERABLE PARTS SHALL BE 5 POUNDS MAXIMUM.
- DOOR CLOSERS AND GATE CLOSERS SHALL BE ADJUSTED SO THAT FROM AN OPEN POSITION OF 90 DEGREES, THE TIME REQUIRED TO MOVE THE DOOR TO A POSITION OF 12 DEGREES FROM THE LATCH IS 5 SECONDS MINIMUM.
- DOOR AND GATE SPRING HINGES SHALL BE ADJUSTED SO THAT FROM THE OPEN POSITION OF 70 DEGREES, THE DOOR OR GATE SHALL MOVE TO THE CLOSED POSITION IN 15 SECONDS MINIMUM.
- DOOR HANDLES, PULLS, LATCHES, LOCKS AND OTHER OPERATING DEVICES SHALL BE INSTALLED 34" MIN. AND 44" MAX. ABOVE THE FINISHED FLOOR. LOCKS USED ONLY FOR SECURITY PURPOSES AND NOT USED FOR NORMAL OPERATION ARE PERMITTED AT ANY HEIGHT.  
 ACCESS DOORS OR GATES IN BARRIER WALLS AND FENCES PROTECTING POOLS, SPAS AND HOT TUBS SHALL BE PERMITTED TO HAVE OPERABLE PARTS OF THE RELEASE OF LATCH ON SELF-LATCHING DEVICES AT 54 INCHES MAXIMUM ABOVE THE FINISHED FLOOR OR GROUND, PROVIDED THE SELF-LATCHING DEVICES ARE NOT ALSO SELF-LOCKING DEVICES OPERATED BY MEANS OF A KEY, ELECTRONIC OPERATOR OR INTEGRAL COMBINATION LOCK.
- LOCKS AND LATCHES SHALL BE PERMITTED TO PREVENT OPERATION OF DOORS WHERE ANY OF THE FOLLOWING EXISTS:  
 1) PLACES OF DETENTION OR RESTRAINT.  
 2) IN BUILDINGS IN OCCUPANCY GROUP "A" HAVING AN OCCUPANT LOAD OF 800 OR LESS, GROUPS B, F, M AND S, AND IN PLACES OF RELIGIOUS WORSHIP, THE MAIN EXTERIOR DOOR OR DOORS ARE PERMITTED TO BE EQUIPPED WITH KEY-OPERATED LOCKING DEVICES FROM THE EGRESS SIDE PROVIDED:  
 2.1) THE LOCKING DEVICE IS READILY OBTAINABLE AS LOCKED.  
 2.2) A READILY VISIBLE DURABLE SIGN IS POSTED ON THE EGRESS SIDE OR ON ADJACENT TO THE DOOR STATING THIS DOOR TO REMAIN UNLOCKED WHEN BUILDING IS OCCUPIED. THE SIGN SHALL BE IN LETTERS 1 INCH HIGH ON A CONTRASTING BACKGROUND AND:  
 2.3) THE USE OF THE KEY-OPERATED LOCKING DEVICE IS REVOKABLE BY THE BUILDING OFFICIAL FOR DUE CAUSE.  
 3) WHERE EGRESS DOORS ARE USED IN PARTS, APPROVED AUTOMATIC FLUSH BOLTS SHALL BE PERMITTED TO BE USED, PROVIDED THAT THE DOOR LEAF HAVING THE AUTOMATIC FLUSH BOLTS HAS NO DOORNOBS OR SURFACE MOUNTED HARDWARE.  
 4) DOORS FROM INDIVIDUAL DWELLING OR SLEEPING UNITS OF GROUP R OCCUPANCIES HAVING AN OCCUPANT LOAD OF 10 OR LESS ARE PERMITTED TO BE EQUIPPED WITH A NIGHT LATCH, DEAD BOLT OR SECURITY CHAIN, PROVIDED SUCH DEVICES ARE OPERABLE FROM THE INSIDE WITHOUT THE USE OF A KEY OR TOOL.  
 5) FIRE DOORS AFTER THE MINIMUM ELEVATED TEMPERATURE HAS DISABLED THE UNLATCHING MECHANISM IN ACCORDANCE WITH LISTED FIRE DOOR TEST PROCEDURES.
- MANUALLY OPERATED FLUSH BOLTS OR SURFACE BOLTS ARE ONLY PERMITTED AT THE FOLLOWING CONDITIONS:  
 1) WHERE A PAIR OF DOORS SERVES A STORAGE OR EQUIPMENT ROOM, MANUALLY OPERATED EDGE OR SURFACE-MOUNTED BOLTS ARE PERMITTED ON THE INACTIVE LEAF.  
 2) WHERE A PAIR OF DOORS SERVES AN OCCUPANT LOAD OF LESS THAN 50 PERSONS IN A GROUP B, F OR S OCCUPANCY, MANUALLY OPERATED EDGE OR SURFACE-MOUNTED BOLTS ARE PERMITTED ON THE INACTIVE LEAF. THE INACTIVE LEAF SHALL CONTAIN NO DOORNOBS, PANIC BARS OR SIMILAR OPERATING HARDWARE.  
 3) WHERE A PAIR OF DOORS SERVES A GROUP B, F OR S OCCUPANCY, MANUALLY OPERATED EDGE OR SURFACE-MOUNTED BOLTS ARE PERMITTED ON THE INACTIVE LEAF PROVIDED SUCH INACTIVE LEAF IS NOT NEEDED TO MEET EGRESS WIDTH REQUIREMENTS AND THE BUILDING IS EQUIPPED THROUGHOUT WITH AN AUTOMATIC SPRINKLER SYSTEM. THE INACTIVE LEAF SHALL CONTAIN NO DOORNOBS, PANIC BARS OR SIMILAR OPERATING HARDWARE.
- THE UNLATCHING OF ANY DOOR OR LEAF SHALL NOT REQUIRE MORE THAN ONE OPERATION, OTHER THAN:  
 1) WHERE MANUALLY OPERATED LOCKS ARE PERMITTED  
 2) DOORS WITH AUTOMATIC FLUSH BOLTS AS PERMITTED
- INTERIOR STAIRWAY MEANS OF EGRESS DOORS SHALL BE OPERABLE FROM BOTH SIDES WITHOUT THE USE OF A KEY OR SPECIAL KNOWLEDGE OR EFFORT.  
 EXCEPTIONS:  
 1) STAIRWAY DISCHARGE DOORS SHALL BE OPERABLE FROM THE EGRESS SIDE AND SHALL ONLY BE LOCKED FROM THE OPPOSITE SIDE.  
 2) THIS SHALL NOT APPLY TO DOORS CAPABLE OF BEING UNLOCKED SIMULTANEOUSLY WITHOUT UNLATCHING UPON A SIGNAL FROM THE FIRE COMMAND CENTER.  
 3) IN STAIRWAYS SERVING NOT MORE THAN FOUR STORES, DOORS ARE PERMITTED TO BE LOCKED FROM THE SIDE OPPOSITE THE EGRESS SIDE, PROVIDED THEY ARE OPERABLE FROM THE EGRESS SIDE AND CAPABLE OF BEING UNLOCKED SIMULTANEOUSLY WITHOUT UNLATCHING UPON A SIGNAL FROM THE FIRE COMMAND CENTER, A PRESENT, OR A SIGNAL BY EMERGENCY PERSONNEL FROM A SINGLE LOCATION INSIDE THE MAIN ENTRANCE TO THE BUILDING.  
 4) STAIRWAY EXIT DOORS SHALL BE OPEN AS BE FROM THE EGRESS SIDE AND SHALL ONLY BE LOCKED FROM THE OPPOSITE SIDE IN GROUP B, F, M AND S OCCUPANCIES WHERE THE ONLY INTERIOR ACCESS TO THE TENANT SPACE IS FROM A SINGLE EXIT STAIR WHERE PERMITTED.
- DOORS SERVING A GROUP H OCCUPANCY AND DOORS SERVING ROOMS OR SPACES WITH AN OCCUPANT LOAD OF 80 OR MORE IN A GROUP A OCCUPANCY, ASSEMBLY AREA NOT CLASSIFIED AS AN ASSEMBLY OCCUPANCY, E, F, 2 OR F-2 OCCUPANCIES SHALL NOT BE PROVIDED WITH A LATCH OR LOCK UNLESS IT IS PANIC HARDWARE OR FIRE EXIT HARDWARE. ELECTRICAL ROOMS WITH EQUIPMENT RATED 1000 AMPERES OR MORE AND OVER 6'-0" WIDE THAT CONTAIN OVERCURRENT DEVICES, SWITCHING DEVICES OR CONTROL DEVICES WITH EXIT OR EXIT ACCESS DOORS SHALL BE EQUIPPED WITH PANIC HARDWARE OR FIRE EXIT HARDWARE. THE DOORS SHALL SWING IN THE DIRECTION OF EGRESS TRAVEL.
- WHERE PANIC OR FIRE EXIT HARDWARE IS INSTALLED, IT SHALL COMPLY WITH THE FOLLOWING:  
 1) PANIC HARDWARE SHALL BE LISTED IN ACCORDANCE WITH UL 10C AND UL 305.  
 2) FIRE EXIT HARDWARE SHALL BE LISTED IN ACCORDANCE WITH UL 10C AND UL 305.  
 3) THE ACTUATING PORTION OF THE RELEASING DEVICE SHALL EXTEND AT LEAST ONE-HALF OF THE DOOR LEAF WIDTH.  
 4) THE MAXIMUM UNLATCHING FORCE SHALL NOT EXCEED 15 POUNDS.
- MACHINERY ROOM DOORS SHALL BE TIGHT FITTING AND SELF-CLOSING.
- DOOR OPENING FORCE  
 1) THE FORCE FOR PUSHING OR PULLING OPEN INTERIOR SWINGING EGRESS DOORS, OTHER THAN FIRE DOORS, SHALL NOT EXCEED 5 POUNDS. FOR OTHER SWINGING DOORS, AS WELL AS SLIDING AND FOLDING DOORS, THE DOOR LATCH SHALL RELEASE WHEN SUBJECTED TO A 15-POUND FORCE. THE DOOR SHALL BE SET IN MOTION WHEN SUBJECTED TO A 30-POUND FORCE. THE DOOR SHALL SWING TO A FULL OPEN POSITION WHEN SUBJECTED TO A 15-POUND FORCE. FORCES SHALL BE APPLIED TO THE LATCH SIDE OF THE DOOR.  
 2) THE FORCE FOR PUSHING OR PULLING OPEN A DOOR OR GATE OTHER THAN FIRE DOORS SHALL BE AS FOLLOWS:  
 1) INTERIOR HINGED DOORS AND GATES 5 POUNDS MAX.  
 2) SLIDING OR FOLDING DOORS 5 POUNDS MAX.  
 3) RECURVED FIRE DOORS THE MINIMUM OPENING FORCE ALLOWABLE BY THE APPROPRIATE ADMINISTRATIVE AUTHORITY, NOT TO EXCEED 15 POUNDS.  
 4) EXTERIOR HINGED DOORS 5 POUNDS MAX.  
 EXCEPTIONS:  
 1) EXTERIOR DOORS TO MACHINERY SPACES INCLUDING, BUT NOT LIMITED TO, ELEVATOR FITS OR ELEVATOR PENTHOUSES MECHANICAL, ELECTRICAL OR COMMUNICATIONS EQUIPMENT ROOMS
- EGRESS DOORS SHALL BE OF THE PIVOTED OR SIDE-HINGED SWINGING TYPE AND SHALL SWING IN THE DIRECTION OF EGRESS TRAVEL. WHERE SERVING A ROOM OR AREA CONTAINING AN OCCUPANT LOAD OF 80 OR MORE PERSONS OR A GROUP H OCCUPANCY.  
 EXCEPTIONS:  
 1) PRIVATE GARAGES, OFFICE AREAS, FACTORY AND STORAGE AREAS WITH AN OCCUPANT LOAD OF 10 OR LESS.  
 2) IN OTHER THAN GROUP H OCCUPANCIES, REVOLVING DOORS  
 3) IN OTHER THAN GROUP H OCCUPANCIES, HORIZONTAL SLIDING DOORS ARE PERMITTED IN A MEANS OF EGRESS.  
 4) POWER-OPERATED DOORS  
 5) IN OTHER THAN GROUP H OCCUPANCIES, MANUALLY OPERATED HORIZONTAL SLIDING DOORS ARE PERMITTED IN A MEANS OF EGRESS FROM SPACES WITH AN OCCUPANT LOAD OF 10 OR LESS.
- DOOR WIDTH AND HEIGHT  
 1) DOOR OPENINGS SHALL PROVIDE A CLEAR WIDTH OF 32" MIN. THE MAX. WIDTH OF A SWINGING DOOR LEAF SHALL BE 48" NOMINAL. THE HEIGHT OF DOOR OPENINGS SHALL NOT BE LESS THAN 80", DOOR CLOSERS AND DOOR STOPS SHALL BE PERMITTED TO BE 78" MIN. ABOVE THE FINISH FLOOR OR GROUND.
- DOOR REQUIREMENTS  
 1) PROVIDE 4" WALL RETURN AT DOORS UOIN.  
 2) VERIFY ALL SIGNAGE AND LOCATION W/ ARCHITECT PRIOR TO INSTALLATION.  
 3) DOOR LOUVERS IN DOOR - REFER TO MECHANICAL PLANS FOR AIR FLOW REQUIREMENTS.  
 4) PROVIDE TO THE OWNER A "CERTIFICATE OF COMPLIANCE" SIGNED BY THE GENERAL CONTRACTOR STATING THAT MATERIALS AND WORKMANSHIP COMPLY THE PLANS AND SPECIFICATIONS AFFECTING T-24 ENERGY DESIGN REQUIREMENTS FOR ALL EXTERIOR DOORS. FULLY INSULATE ALL EXTERIOR DOORS. LIMIT AIR INFILTRATION AROUND THE PERIMETER OF ALL EXTERIOR DOORS WHEN IN A CLOSED POSITION.  
 5) PROVIDE FIRE RATED DOORS WITH SMOKE AND DRAFT CONTROL WITH APPROVED LABEL, FOLLOWED BY THE LETTER "S" SHOWING COMPLIANCE WITH CBC 716.57.3. PROVIDE FIRE RATED DOORS WITH TIGHT FITTING SMOKE AND DRAFT CONTROL ASSEMBLIES.  
 6) REFER TO MECHANICAL PLANS FOR LOCATIONS OF DOORS TO BE T UNDERCUT TO ALLOW AIR TRANSFER.  
 7) PROVIDE DOOR FRAMES TO FIT TOTAL WALL THICKNESS INCLUDING FINISHES - REFER TO HEAD & JAMB DETAILS INCLUDING WALL ASSEMBLIES  
 8) ALL FIRE DOORS WITH A RATING OF 3/4 HOUR OR MORE SHALL HAVE A SIGN STATING "FIRE DOOR DO NOT OBSTRUCT."  
 9) DOORS WITH HOLD OPEN DEVICE SHALL BE SELF-CLOSING UPON DETECTION OF SMOKE PER CBC 716.58.3  
 10) SWINGING DOORS AND GATES SHALL HAVE A SMOOTH SURFACE ON THE PUSH SIDE EXTENDING THE FULL WIDTH OF THE DOOR OR GATE FOR A MINIMUM 17" ABOVE THE FINISH FLOOR OR GROUND.  
 11) ALL DOOR GLASS TO BE TEMPERED DUAL PANE GLASS.  
 12) CONTRACTOR SHALL COORDINATE WITH OWNER AND PROVIDE A KEYING SCHEDULE BASED ON EMPLOYEE ACCESS REQUIREMENTS/ PERMISSIONS.  
 13) CONTRACTOR SHALL CONFIRM WITH OWNER IF ELECTRONIC STRIKES/ ELECTRONIC ACCESS CONTROL FUNCTIONS ARE REQUIRED FOR NEW DOORS. IF ELECTRONIC ACCESS CONTROL IS A REQUIREMENT, CONTRACTOR SHALL COORDINATE CONDUIT AND LOW VOLTAGE REQUIREMENTS BASED ON ACCESS CONTROL MANUFACTURER.

REVISIONS DATE BY DESCRIPTION

01/26/23	CC	ISS DSA SUBMITTAL
11/22/23	CC	DSA BACK CHECK
05/22/23	CC	DSA BACK CHECK #2
06/30/23	CC	DSA BACK CHECK #3
11/10/23	CC	ADDENDUM #001

STATE OF CALIFORNIA  
 DIVISION OF ARCHITECTURE  
 C-30852  
 Exp. 12/31/25

BELL ARCHITECTURAL GROUP 881 424 4620  
 235 MONTEREY STREET SUITE B, SALINAS, CA 93901  
 BELLARCH.COM

Bella Architectural Group

DOOR & INTERIOR FINISH SCHEDULE  
 NEW BUS DROP-OFF AND PARKING FOR:  
**SHERWOOD ELEM. SCHOOL**  
 110 SOUTH WOOD STREET  
 SALINAS, CA 93905

DATE: 11/10/2023  
 SCALE: AS NOTED  
 DRAWN: AT  
 JOB: 20035  
 SHEET: A31

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**GENERAL NOTES:**

- THIS PROJECT IS A REMODEL. THE PLANS AND SPECIFICATIONS INDICATE THE GENERAL EXTENT OF THE WORK BASED ON OWNER PROVIDED RECORD DRAWINGS AND LIMITED FIELD VERIFICATION. CONTRACTOR SHALL VISIT SITE, VERIFY EXISTING CONDITIONS, AND REPORT ANY DISCREPANCIES NOTED TO THE ARCHITECT PRIOR TO SUBMITTING A BID. CONTRACTOR SHALL BE RESPONSIBLE FOR THE DISCONNECTION AND RECONNECTION OF MECHANICAL, PLUMBING, AND ELECTRICAL SYSTEMS NECESSARY TO ACCOMPLISH THE WORK WHETHER OR NOT SPECIFIED AND/OR INDICATED.
- ASBESTOS ABATEMENT BY OTHERS ON THIS PROJECT. ANY REQUIRED ASBESTOS ABATEMENT WORK WILL BE PROVIDED BY OTHERS. AREAS SUSPECTED OF ASBESTOS CONTAMINATION WHICH INTERFERE WITH WORK UNDER THIS PROJECT SHALL BE IDENTIFIED DURING THE EARLY PHASES OF CONSTRUCTION IN ORDER TO PROVIDE FOR TIMELY DISPOSITION. NO DELAYS IN CONSTRUCTION SCHEDULE WILL BE ALLOWED DUE TO IMPROPER COORDINATION.
- PLUMBING CONTRACTOR SHALL NOTIFY GENERAL CONTRACTOR TO REPAIR WALL, FLOOR, AND CEILING SURFACES AS REQUIRED DUE TO DEMOLITION OR INSTALLATION WORK.
- REMOVE ALL ABANDONED PIPING, EQUIPMENT, AND FIXTURES INTERFERING WITH NEW WORK WHETHER NEW WORK IS ARCHITECTURAL, STRUCTURAL, MECHANICAL, OR ELECTRICAL.
- ABANDON IN PLACE ALL PIPING NOT INTERFERING WITH NEW WORK UNLESS REQUIRED FOR CONTINUED SERVICE.
- CONTRACTOR SHALL SAW-CUT SLAB AS REQUIRED FOR INSTALLATION OF WASTE AND VENT PIPING BELOW FLOOR.
- CUTTING OR CORING OF STRUCTURAL MEMBERS OR FOOTINGS IS PROHIBITED WITHOUT THE PRIOR WRITTEN CONSENT OF THE STRUCTURAL ENGINEER AND THE ARCHITECT.
- CONTRACTOR SHALL VERIFY THAT THE ELECTRICAL CONNECTIONS TO THE UNITS, INCLUDING CIRCUIT PROTECTION, CONFORM TO UNIT LABELS AND MANUFACTURER'S DIRECTIONS. WHERE WIRE SIZES SHOWN ON DRAWING EXCEED MANUFACTURER'S RECOMMENDATIONS, THE DRAWINGS SHALL GOVERN. ALL WIRING SHALL BE PER THE NATIONAL ELECTRICAL CODE.
- ALL CONTROL WIRING SHALL BE IN CONDUIT. CONDUIT SHALL BE PROVIDED AND INSTALLED BY THE PLUMBING CONTRACTOR.
- FLASHING AND WEATHERPROOFING AT EXTERIOR PENETRATIONS ARE SHOWN ON THE ARCHITECTURAL DRAWINGS.
- COORDINATE WITH OWNER ON SPACE REQUIRED AND TIME SCHEDULE FOR DELIVERY OF ALL ITEMS WHICH ARE TO BE GIVEN TO THE OWNER FOR HIS DISPOSITION.
- FOR ROOF PENETRATIONS WITHOUT CURBS, PROVIDE WEATHERPROOF FLASHING PER SMACNA ARCHITECTURAL SHEET METAL MANUAL AND DRAWING NOTES.
- LABEL ALL PIECES OF EQUIPMENT WITH MARK MATCHING SCHEDULE OR EQUIPMENT LIST WITH ENGRAVED PLASTIC LABELS WITH MINIMUM 1/4" HIGH LETTERS. LABELS EXPOSED TO WEATHER SHALL BE ENGRAVED BRASS.
- PRIME AND PAINT ALL EXPOSED PIPING PER ARCHITECTURAL SPECIFICATIONS. PAINT SHALL NOT EXCEED THE FOLLOWING VOLATILE ORGANIC COMPOUND CONTENT LIMITS: FLATS < 50 GRAMS PER LITER, NON-FLATS < 100 GRAMS PER LITER.
- COORDINATE WITH ELECTRICAL ON REQUIRED POWER OUTLETS AND LIGHT SWITCHES NEAR PLUMBING EQUIPMENT.
- BRACE ALL GAS PIPING THAT IS 1" NOMINAL OR LARGER. BRACE ALL PIPING IN MECHANICAL ROOMS THAT IS 1/4" NOMINAL OR LARGER. BRACE ALL PIPING 2 1/2" NOMINAL OR LARGER. PIPING SUSPENDED BY INDIVIDUAL HANGERS 12" OR LESS IN LENGTH, AS MEASURED FROM THE TOP OF THE PIPE TO THE BOTTOM OF THE SUPPORT WHERE THE HANGER IS ATTACHED, NEED NOT BE BRACED.
- ALL PIPING, VALVES, EQUIPMENT, ETC. SHOWN IS NEW UNLESS OTHERWISE NOTED.

**DSA GENERAL NOTES**

- THE INTENT OF THE CONTRACT DOCUMENTS IS TO REPLACE EXISTING DUCTWORK WITH NEW TO REDISTRIBUTE AIR TO THE NEW FLOOR PLAN LAYOUT. SHOULD ANY CONDITIONS DEVELOP NOT COVERED BY THE CONTRACT DOCUMENTS, A CONSTRUCTION CHANGE DOCUMENT DETAILING AND SPECIFYING THE REQUIRED WORK SHALL BE SUBMITTED TO AND APPROVED BY DSA BEFORE PROCEEDING WITH THE WORK.
- THE SEISMIC SUPPORT AND ANCHORAGE OF THE EQUIPMENT DESCRIBED ON THESE DRAWINGS HAVE BEEN ENGINEERED BY THE ENGINEER OF RECORD FOR CONFORMANCE WITH APPROPRIATE BUILDING CODES. THE ENGINEER OF RECORD WAS NOT RESPONSIBLE FOR THE EQUIPMENT DESIGN.
- ALL MECHANICAL AND PLUMBING EQUIPMENT SHALL BE BRACED OR ANCHORED TO RESIST A HORIZONTAL FORCE ACTING IN ANY DIRECTION USING THE CRITERIA FROM CHAPTER 16A CALIFORNIA BUILDING CODE (CBC) 2019.
- WHERE ANCHORAGE DETAILS ARE NOT SHOWN ON THE DRAWINGS, THE FIELD INSTALLATION SHALL BE SUBJECT TO THE APPROVAL OF THE STRUCTURAL ENGINEER AND THE FIELD REPRESENTATIVE OF THE DIVISION OF THE STATE ARCHITECT.
- SMOKE DETECTORS SHALL BE INSTALLED IN ACCORDANCE WITH NFPA 72, 2016 EDITION.

**MEP COMPONENT ANCHORAGE NOTE**

ALL MECHANICAL, PLUMBING AND ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON DSA APPROVED CONSTRUCTION DOCUMENTS. THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCE AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE 2019 CBC SECTIONS 1617A.1.18 THOROUGH 1617A.1.26 AND ASCE 7-16 CHAPTERS 13, 26 AND 30.

- ALL PERMANENT EQUIPMENT AND COMPONENTS.
- TEMPORARY, MOVABLE OR MOBILE EQUIPMENT THAT IS PERMANENTLY ATTACHED (E.G. HARD WIRED) TO THE BUILDING UTILITY SERVICES SUCH AS ELECTRICITY, GAS OR WATER. "PERMANENTLY ATTACHED" SHALL INCLUDE ALL ELECTRICAL CONNECTIONS EXCEPT PLUGS FOR 110/220 VOLT RECEPTACLES HAVING FLEXIBLE CABLES.
- TEMPORARY, MOVABLE OR MOBILE EQUIPMENT WHICH IS HEAVIER THAN 400 POUNDS OR HAS A CENTER OF MASS LOCATED 4 FEET OR MORE ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT ARE REQUIRED TO BE RESTRAINED IN A MANNER APPROVED BY DSA.

THE FOLLOWING MECHANICAL AND ELECTRICAL COMPONENTS SHALL BE POSITIVELY ATTACHED TO THE STRUCTURE, BUT NEED NOT DEMONSTRATE DESIGN COMPLIANCE WITH THE REFERENCES NOTED ABOVE. THESE COMPONENTS SHALL HAVE FLEXIBLE CONNECTIONS PROVIDED BETWEEN THE COMPONENT AND ASSOCIATED DUCTWORK, PIPING, AND CONDUIT. FLEXIBLE CONNECTIONS MUST ALLOW MOVEMENT IN BOTH TRANSVERSE AND LONGITUDINAL DIRECTIONS:

- COMPONENTS WEIGHING LESS THAN 400 POUNDS AND HAVE A CENTER OF MASS LOCATED 4 FEET OR LESS ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT.
- COMPONENTS WEIGHING LESS THAN 20 POUNDS, OR IN THE CASE OF DISTRIBUTED SYSTEMS, LESS THAN 5 POUNDS PER FOOT, WHICH ARE SUSPENDED FROM A ROOF OR FLOOR OR HUNG FROM A WALL.

THE ANCHORAGE OF ALL MECHANICAL, ELECTRICAL, AND PLUMBING COMPONENTS SHALL BE SUBJECT TO THE APPROVAL OF THE DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE OR STRUCTURAL ENGINEER DELEGATED RESPONSIBILITY AND ACCEPTANCE BY DSA. THE PROJECT INSPECTOR WILL VERIFY THAT ALL COMPONENTS AND EQUIPMENT HAVE BEEN ANCHORED IN ACCORDANCE WITH THE ABOVE REQUIREMENT.

**PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEM BRACING NOTE:**

PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7-16 SECTION 13.3 AS DEFINED IN ASCE 7-16 SECTIONS 13.6.5, 13.6.6, 13.6.7, 13.6.8, AND 2019 CBC, SECTIONS 1617A.1.24, 1617A.1.25, AND 1617A.1.26.

THE METHOD OF SHOWING BRACING AND ATTACHMENTS TO THE STRUCTURE FOR THE IDENTIFIED DISTRIBUTION SYSTEM ARE AS NOTED BELOW. WHEN BRACING AND ATTACHMENTS ARE BASED ON A PREAPPROVED INSTALLATION GUIDE (E.G. OSHPD OPM FOR 2013 CBC OR LATER), COPIES OF THE BRACING SYSTEM INSTALLATION GUIDE OR MANUAL SHALL BE AVAILABLE ON THE JOBSITE PRIOR TO THE START OF AND DURING THE HANGING AND BRACING OF THE DISTRIBUTION SYSTEMS. THE STRUCTURAL ENGINEER OF RECORD SHALL VERIFY THE ADEQUACY OF THE STRUCTURE TO SUPPORT THE HANGER AND BRACE LOADS.

MECHANICAL PIPING (MP), MECHANICAL DUCTS (MD), PLUMBING PIPING (PP), ELECTRICAL DISTRIBUTION SYSTEMS (E):

MP [X] MD [X] PP [X] E [ ] - OPTION 1: DETAILED ON THE APPROVED DRAWINGS WITH PROJECT SPECIFIC NOTES AND DETAILS.

MP [ ] MD [ ] PP [ ] E [ ] - OPTION 2: SHALL COMPLY WITH THE APPLICABLE OSHPD PRE-APPROVAL (OPM.) # \_\_\_\_\_

PLUMBING FIXTURE CONNECTIONS							
MARK	DESCRIPTION	MIN BRANCH SIZE				TRAP	REMARKS
		W	V	CW	HW		
WC-1	FLOOR MOUNTED WATER CLOSET	3"	2"	1"	-	INTEGRAL	① ② ③ ⑤
WC-2	FLOOR MOUNTED WATER CLOSET	3"	2"	1"	-	INTEGRAL	① ③ ⑤
WC-3	FLOOR MOUNTED TANK WATER CLOSET	3"	2"	1/2"	-	INTEGRAL	① ② ③ ⑤
WC-4	FLOOR MOUNTED TANK WATER CLOSET	3"	2"	1/2"	-	INTEGRAL	① ③ ⑤
U-1	WALL MOUNTED URINAL	2"	1 1/2"	3/4"	-	INTEGRAL	① ② ③ ⑤
U-2	WALL MOUNTED URINAL	2"	1 1/2"	3/4"	-	INTEGRAL	① ③ ⑤
L-1	WALL MOUNTED LAVATORY	1 1/2"	1 1/2"	1/2"	-	1 1/2"	① ② ③ ⑤
L-2	WALL MOUNTED LAVATORY	1 1/2"	1 1/2"	1/2"	-	1 1/2"	① ③ ⑤
MS-1	FLOOR MOUNTED MOP SINK	3"	2"	1/2"	-	3"	⑤
MS-2	WALL MOUNTED MOP SINK	3"	2"	1/2"	-	3"	⑤
FD-1	FLOOR DRAIN	2"	1 1/2"	-	-	2"	④

- FIXTURES SHALL BE COMPLETE WITH ALL FITTINGS, SUPPORTS, FASTENING DEVICES, FAUCETS, VALVES, 17 GAUGE TRAPS, STOPS, CAULKING AND APPURTENANCES REQUIRED. FIXTURE COLOR SHALL BE WHITE.
- MUST MEET 2019 CAL-GREEN MEASURES FOR WATER CONSERVATION
- MUST MEET STATE OF CALIFORNIA REQUIREMENTS FOR ACCESSIBILITY
- J.R. SMITH FIGURE 2005, 2" PIPE SIZE, TRAP PRIMER CONNECTION, VANDAL PROOF SECURED TOP, PROVIDE WITH J.R. SMITH FIGURE 2698 "PRIME-EZE" TRAP PRIMER
- SEE PLUMBING FIXTURE SPECIFICATION

**PLUMBING FIXTURE SPECIFICATION**

FIXTURES SHALL BE COMPLETE WITH ALL FITTINGS, SUPPORTS, FASTENING DEVICES, FAUCETS, VALVES, 17 GAUGE TRAPS, STOPS, CAULKING AND APPURTENANCES REQUIRED. FIXTURE COLOR SHALL BE WHITE, UNLESS OTHERWISE NOTED.

- WATER CLOSET WC-1: KOHLER K-9609-SS "JUVENILE ULTRA" TOILET, FLOOR MOUNTED, FLUSHOMETER, ANTIMICROBIAL, ELONGATED BOWL, TOP SPUD, 13 3/4" HIGH, 1.28 GALLON FLUSH. FLUSH VALVE: MOEN MODEL 8311AC12, M-POWER, SENSOR ACTIVATED, 1.28 GPF WATERSENSE CERTIFIED, REQUIRES AC TRANSFORMER #104630 (ONE TRANSFORMER POWERS UP TO EIGHT DEVICES) SEAT: KOHLER K-4731CA "LUSTRA", ELONGATED OPEN FRONT PLASTIC SEAT, ANTIMICROBIAL, 1-1/4" TALL = 15" SEAT HEIGHT
- WATER CLOSET WC-2: KOHLER K-9609-SS "JUVENILE ULTRA" TOILET, FLOOR MOUNTED, FLUSHOMETER, ANTIMICROBIAL, ELONGATED BOWL, TOP SPUD, 13 3/4" HIGH, 1.28 GALLON FLUSH. FLUSH VALVE: MOEN MODEL 8311AC12, M-POWER, SENSOR ACTIVATED, 1.28 GPF WATERSENSE CERTIFIED, REQUIRES AC TRANSFORMER #104630 (ONE TRANSFORMER POWERS UP TO EIGHT DEVICES) SEAT: KOHLER K-4731CA "LUSTRA", ELONGATED OPEN FRONT PLASTIC SEAT, ANTIMICROBIAL, 1-1/4" TALL = 15" SEAT HEIGHT
- WATER CLOSET WC-3: KOHLER K-25097-SSRA-O/K-25087-RA-O "KINGSTON" TOILET, FLOOR MOUNTED, TANK TYPE, ANTIMICROBIAL, 17" HIGH, 1.28 GALLON FLUSH. SEAT: KOHLER K-4666CA "LUSTRA", OPEN FRONT PLASTIC SEAT, ANTIMICROBIAL SUPPLIES WITH STOPS: MCGUIRE, 1/4 TURN
- WATER CLOSET WC-4: KOHLER K-25087-SSRA-O "KINGSTON" TOILET, FLOOR MOUNTED, ELONGATED, TANK TYPE, ANTIMICROBIAL, 14 1/2" HIGH, 1.28 GALLON FLUSH. SEAT: KOHLER K-4666CA "LUSTRA", OPEN FRONT PLASTIC SEAT, ANTIMICROBIAL SUPPLIES WITH STOPS: MCGUIRE, 1/4 TURN
- URINAL U-1: KOHLER K-5452-ET "DEXTER", WALL-MOUNT, TOP SPUD, .125 GPF FLUSH VALVE: MOEN MODEL 8316AC, M-POWER, SENSOR ACTIVATED, .125 GPF WATERSENSE CERTIFIED, REQUIRES AC TRANSFORMER #104630 (ONE TRANSFORMER POWERS UP TO EIGHT DEVICES) CARRIER: J.R. SMITH FIGURE 0636 WALL MOUNTED URINAL SUPPORT
- URINAL U-2: KOHLER K-5452-ET "DEXTER", WALL-MOUNT, TOP SPUD, .125 GPF FLUSH VALVE: MOEN MODEL 8316AC, M-POWER, SENSOR ACTIVATED, .125 GPF WATERSENSE CERTIFIED, REQUIRES AC TRANSFORMER #104630 (ONE TRANSFORMER POWERS UP TO EIGHT DEVICES) CARRIER: J.R. SMITH FIGURE 0636 WALL MOUNTED URINAL SUPPORT
- LAVATORY L-1: KOHLER K-2007 "KINGSTON" WALL-MOUNT, VITREOUS CHINA, 21 1/4" x 18 1/8" FAUCET: MOEN 8551AC, ELECTRONIC ABOVE-DECK FAUCET, .5 GPM, VANDAL RESISTANT AERATOR, REQUIRES AC TRANSFORMER #104630 (ONE TRANSFORMER POWERS UP TO EIGHT DEVICES) SUPPLIES WITH STOPS: MCGUIRE, 1/4 TURN P-TRAP: MCGUIRE PART NO. 8902C GRID DRAIN: KOHLER K-7129-A CARRIER: J.R. SMITH FIGURE 0700 WALL MOUNTED LAVATORY SUPPORT P-TRAP INSULATION KIT: MCGUIRE PROWRAP PWV8902NCO
- LAVATORY L-2: KOHLER K-2007 "KINGSTON" WALL-MOUNT, VITREOUS CHINA, 21 1/4" x 18 1/8" FAUCET: MOEN 8551AC, ELECTRONIC ABOVE-DECK FAUCET, .5 GPM, VANDAL RESISTANT AERATOR, REQUIRES AC TRANSFORMER #104630 (ONE TRANSFORMER POWERS UP TO EIGHT DEVICES) SUPPLIES WITH STOPS: MCGUIRE, 1/4 TURN P-TRAP: MCGUIRE PART NO. 8902C OR J.R. SMITH FIGURE 2698 FOR TRAP PRIMER CONNECTION TO FD-1 GRID DRAIN: KOHLER K-7129-A CARRIER: J.R. SMITH FIGURE 0700 WALL MOUNTED LAVATORY SUPPORT
- MOP SINK MS-1: KOHLER K-6710 "WHITBY" FLOOR-MOUNT, ACID-RESISTANT ENAMEL FINISH, 28" x 28" FAUCET: KOHLER K-8307-A4, WALL MOUNTED FAUCET, 13.5 GPM, VANDAL RESISTANT LEVER HANDLES DRAIN: KOHLER K-9146
- MOP SINK MS-2: KOHLER K-6714 "BANNON" WALL-MOUNT, ENAMEL CAST IRON FINISH, 22-1/4" x 18-1/4" x 23" FAUCET: KOHLER K-838160-A4, WALL MOUNTED FAUCET, 13.5 GPM, VANDAL RESISTANT LEVER HANDLES DRAIN: KOHLER K-9146

FANS										
MARK	LOCATION	CFM	ESP	SONES	MOTOR		FAN RPM	WT LBS	MAKE & MODEL	REMARKS
					WATTS	V/PH				
EF-1	STAFF RESTROOM	210	.28"	4.5	172	115/1	980	10	GREENHECK SP-8200	① ②

① CEILING MOUNTED CABINET FAN, DIRECT DRIVE      ② SWITCH WITH LIGHTS

PLUMBING LEGEND				
SYMBOL	ABBRV.	IDENTIFICATION	ABBRV.	IDENTIFICATION
---	CW	COLD WATER (DOMESTIC)	COORD	COORDINATE
---	HW	HOT WATER	DN	DOWN
---	HWR	HOT WATER RETURN	DWGS	DRAWINGS
---	V	VENT	(E)	EXISTING
G	G	GAS (7"WC)	MIN	MINIMUM
W	S OR W	SOIL OR WASTE ABOVE GRADE	(N)	NEW
W	S OR W	SOIL OR WASTE BELOW GRADE	VTR	VENT THROUGH ROOF
o		RISE UP	W/	WITH
G	ELL	ELBOW DOWN		
---	TEE	TEE DOWN		
---	CAP	CAP		
---	CONT	CONTINUATION		
o		BALL VALVE		
---		UNION		
---	WHA	WATER HAMMER ARRESTOR		
---	HB	HOSE BIBB		
---	GCO/FCO	GRADE CLEAN-OUT/FLOOR CLEAN-OUT		
---	WCO	WALL CLEAN-OUT		
---		THERMOMETER		
---	POC	POINT OF CONNECTION		

**NOTE:**

- CUTTING AND NOTCHING OF WOOD FRAMING SHALL BE PER 2019 CBC SECTION 2308.5.9
- BORED HOLES IN WOOD FRAMING SHALL BE PER 2019 CBC SECTION 2308.5.10

**NOTE:**

LOCATE (E) FOUNDATIONS PRIOR TO STARTING WORK. DO NOT CUT OR OTHERWISE DAMAGE (E) FOOTINGS OR FOOTING REINFORCEMENT

**2019 CALGREEN NON-RESIDENTIAL MANDATORY MEASURES:**

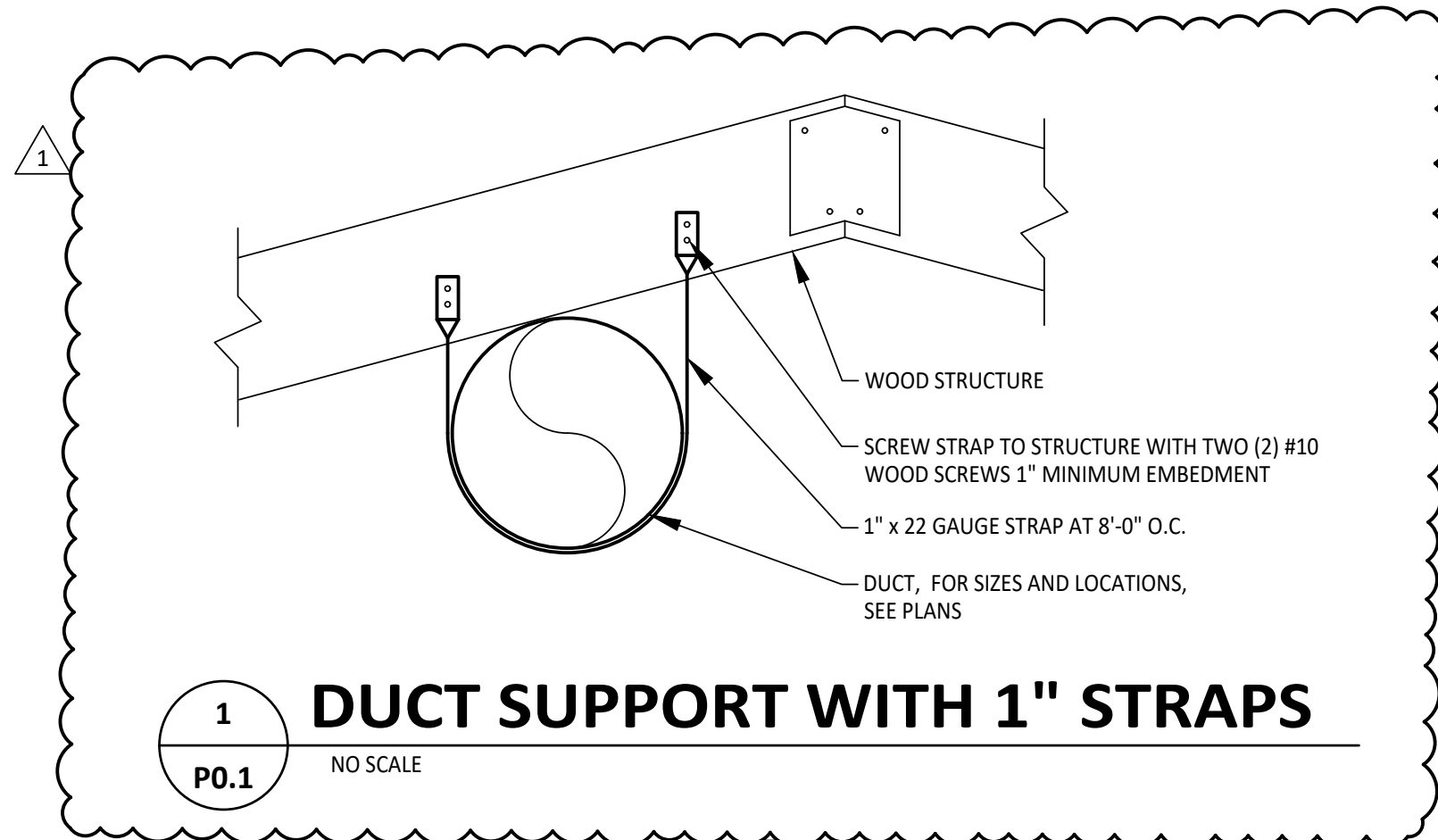
- PLUMBING FIXTURES AND FITTINGS SHALL COMPLY WITH THE FOLLOWING:
- 5.303.3.1 WATER CLOSETS: ≤1.28 GAL/FLUSH
  - 5.303.3.2 URINALS: ≤0.125 GAL/FLUSH
  - 5.303.3.3.1 SINGLE SHOWERHEADS: ≤1.8 GPM AT 80 PSI
  - 5.303.3.3.2 MULTIPLE SHOWERHEADS: COMBINED FLOW RATE OF ALL SHOWERHEADS AND/OR OTHER SHOWER OUTLETS CONTROLLED BY A SINGLE VALVE SHALL NOT EXCEED 1.8 GPM AT 80 PSI OR ONLY ONE SHOWERHEAD IS TO BE IN OPERATION AT A TIME.
  - 5.303.3.4.1 NON-RESIDENTIAL LAVATORY FAUCETS: ≤0.5 GPM AT 60 PSI
  - 5.303.3.4.2 KITCHEN FAUCETS: ≤1.8 GPM AT 60 PSI; TEMPORARY INCREASE TO 2.2 GPM ALLOWED BUT SHALL DEFAULT TO 1.8 GPM
  - 5.303.3.4.3 WASH FOUNTAINS: ≤1.8 GPM/20 (RIM SPACE (INCHES) AT 60 PSI)
  - 5.303.3.4.4 METERING FAUCETS: ≤0.20 GALLONS PER CYCLE
  - 5.303.3.4.5 METERING FAUCETS FOR WASH FOUNTAINS: ≤0.20 GALLONS PER CYCLE 20 (RIM SPACE (INCHES) AT 60 PSI)

NOTE: WHERE COMPLYING FAUCETS ARE UNAVAILABLE, AERATORS OR OTHER MEANS MAY BE USED TO ACHIEVE REDUCTION.

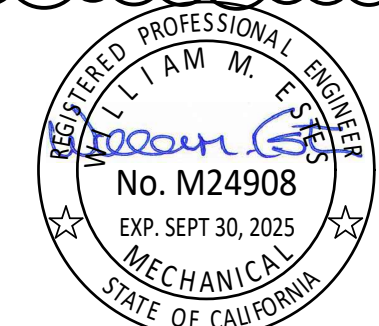
**LIST OF GOVERNING CODES:**

- 2019 BUILDING STANDARDS ADMINISTRATIVE CODE, PART 1, TITLE 24, C.C.R.
- 2019 CALIFORNIA BUILDING CODE (CBC), VOL. 1 & 2, PART 2, TITLE 24, C.C.R.
- (2018 INTERNATIONAL BUILDING CODE, VOL. 1 & 2, AND 2019 CALIFORNIA AMENDMENTS)
- 2019 CALIFORNIA ELECTRICAL CODE, PART 3, TITLE 24, C.C.R.
- (2017 NATIONAL ELECTRICAL CODE AND 2019 CALIFORNIA AMENDMENTS)
- 2019 CALIFORNIA MECHANICAL CODE (CMC), PART 4, TITLE 24, C.C.R.
- (2018 IAPMO UNIFORM MECHANICAL CODE AND 2019 CALIFORNIA AMENDMENTS)
- 2019 CALIFORNIA PLUMBING CODE (CPC), PART 5, TITLE 24, C.C.R.
- (2018 IAPMO UNIFORM PLUMBING CODE AND 2019 CALIFORNIA AMENDMENTS)
- 2019 CALIFORNIA ENERGY CODE (CEC), PART 6, TITLE 24, C.C.R.
- 2019 CALIFORNIA FIRE CODE (FCF), PART 9, TITLE 24, C.C.R.
- (2018 INTERNATIONAL FIRE CODE AND 2019 CALIFORNIA AMENDMENTS)
- 2019 CALIFORNIA GREEN BUILDING STANDARDS CODE, PART 11, TITLE 24, C.C.R.
- 2019 CALIFORNIA REFERENCED STANDARDS CODE, PART 12, TITLE 24, C.C.R.
- TITLE 19, C.C.R., PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS, SAFETY, STATE FIRE MARSHAL REGULATIONS
- 2016 NFPA 13 & NFPA 72 - NATIONAL FIRE ALARM CODE (CA AMENDED)
- 2010 ADA STANDARDS FOR ACCESSIBLE DESIGN
- AMERICAN WITH DISABILITIES ACT AND STANDARDS

- ALL SECTION NUMBERS BELOW REFER TO GROUP 1, CHAPTER 4, PART 1, TITLE 24, C.C.R.
- ADDENDA, CONSTRUCTION CHANGE DOCUMENTS (CCD) PER SECTION 4-338.
  - INSPECTOR APPROVED BY DSA. INSPECTOR AND CONTINUOUS INSPECTION OF WORK PER SECTION 4-333(b) AND 4-342.
  - TESTS AND TESTING LABORATORY PER SECTION 4-335.
  - SPECIAL INSPECTION PER SECTION 4-333(c).
  - CONTRACTOR SHALL SUBMIT VERIFIED REPORTS PER SECTION 4-336 AND 4-343(c).
  - ADMINISTRATION OF CONSTRUCTION PER PART 1, TITLE 24, C.C.R. - DUTIES OF ARCHITECT, STRUCTURAL ENGINEER OR PROFESSIONAL ENGINEER PER SECTION 4-333(a) AND 4-341.
  - GOVERNING CODES: TITLE 24.
  - A COPY OF PARTS 1, 2, 3, 4, AND 5 OF TITLE 24 SHALL BE KEPT AVAILABLE IN THE FIELD DURING CONSTRUCTION.
  - DSA SHALL BE NOTIFIED OF START OF CONSTRUCTION PER SECTION 4-331.
  - SUPERVISION BY THE DIVISION OF THE STATE ARCHITECT PER SECTION 4-334.



1  
 P0.1 NO SCALE  
**DUCT SUPPORT WITH 1" STRAPS**



ph. (831) 649-8000  
 fx. (831) 649-8038  
 www.axiomengineers.com



AE Project # : 20220439.11  
 22 Lower Ragsdale Dr., Suite A  
 Monterey, California 93940-5788

REVISIONS	DATE	BY	DESCRIPTION
1	11/07/23	CC	1st PLAN CHECK SUBMITTAL
2	01/26/24	CC	1st DSA SUBMITTAL

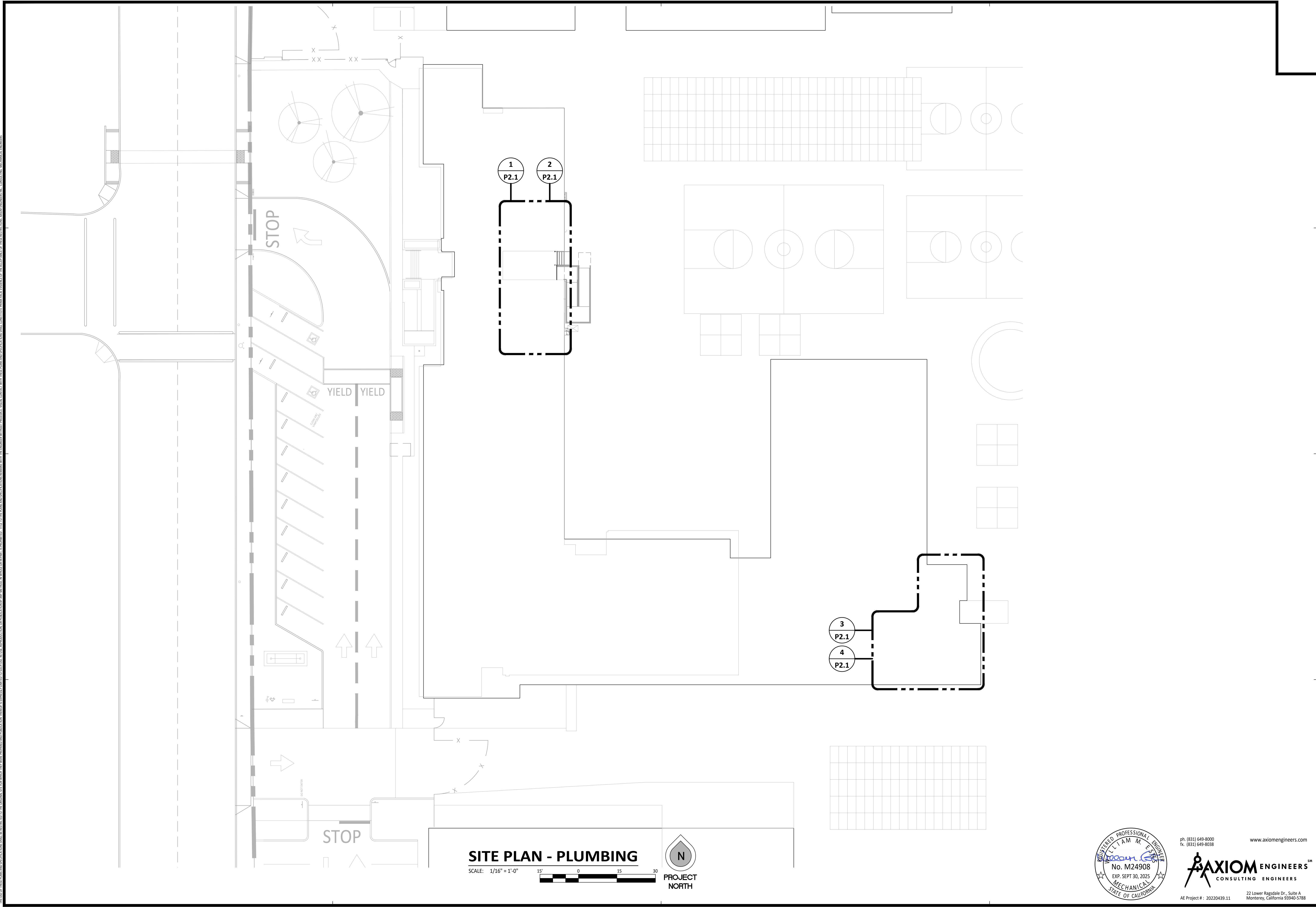
BELLI ARCHITECTURAL GROUP 881 . 424 . 4620  
 285 MONTEREY STREET, SUITE B, SALINAS, CA 98901  
 BELLIAG.COM



LEGEND, SCHEDULES AND NOTES - PLUMBING  
 NEW BUS DROP-OFF AND PARKING FOR:  
**SHERWOOD ELEM. SCHOOL**  
 110 SOUTH WOOD STREET  
 SALINAS, CA 98905

DATE	01/26/2022
SCALE	NONE
DRAWN	CADD
JOB	20035
SHEET	P0.1
OF	SHEETS

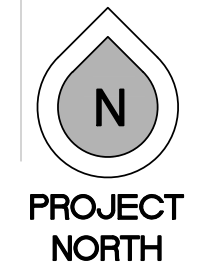
THE USE OF THESE LABELS AND SPECIFICATIONS SHALL BE RESTRICTED TO THE ORIGINAL SITE FOR WHICH THEY WERE INTENDED. ANY REUSE OF THESE LABELS AND SPECIFICATIONS FOR OTHER PROJECTS WITHOUT THE WRITTEN CONSENT OF THE ARCHITECT IS PROHIBITED. THE ARCHITECT ASSUMES NO LIABILITY FOR THE ACCURACY OF THE INFORMATION PROVIDED HEREON. THE ARCHITECT'S LIABILITY IS LIMITED TO THE DESIGN AND CONSTRUCTION OF THE PROJECT AND DOES NOT EXTEND TO THE CONSTRUCTION OF THE PROJECT OR THE PERFORMANCE OF THE PROJECT.



THE USE OF THESE PLANS AND SPECIFICATIONS SHALL BE RESTRICTED TO THE ORIGINAL SITE FOR WHICH THEY WERE PREPARED AND PUBLICATION THEREOF IN ANY MANNER, IN WHOLE OR IN PART, IS PROHIBITED. THE USE OF THESE PLANS AND SPECIFICATIONS IN ANY MANNER, IN WHOLE OR IN PART, IS PROHIBITED. THE USE OF THESE PLANS AND SPECIFICATIONS IN ANY MANNER, IN WHOLE OR IN PART, IS PROHIBITED. VISUAL CONTACT WITH THESE PLANS AND SPECIFICATIONS SHALL CONSTITUTE A MAJOR VIOLATION OF THE PROFESSIONAL ENGINEERING ACT. CONSULTING ENGINEERS LIABILITY.

**SITE PLAN - PLUMBING**

SCALE: 1/16" = 1'-0" 15' 0 15 30



PROJECT NORTH



ph: (831) 649-8000  
 fx: (831) 649-8038

www.axiomeengineers.com



22 Lower Ragsdale Dr., Suite A  
 Monterey, California 93940-5788  
 AE Project # : 20220439.11

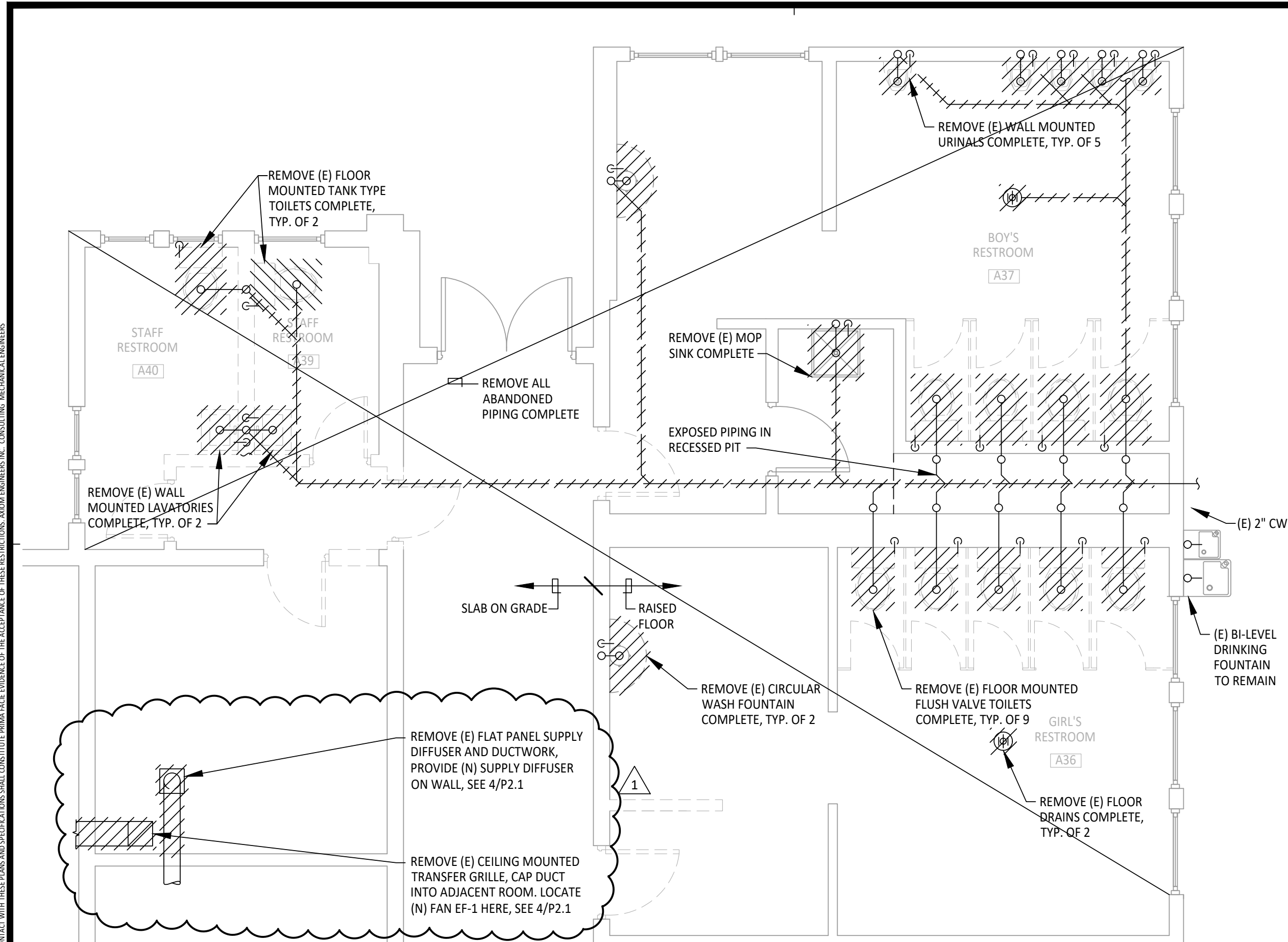
REVISIONS	DATE	BY	DESCRIPTION
	01/26/22	CC	1st O&S SUBMITTAL
	11/07/22	CC	1st PLAN CHECK SUBMITTAL
	11/30/23		

BELLI ARCHITECTURAL GROUP 881 - 424 - 4820  
 235 MONTEREY STREET, SUITE B, SALINAS, CA 93901  
 BELLIAG.COM

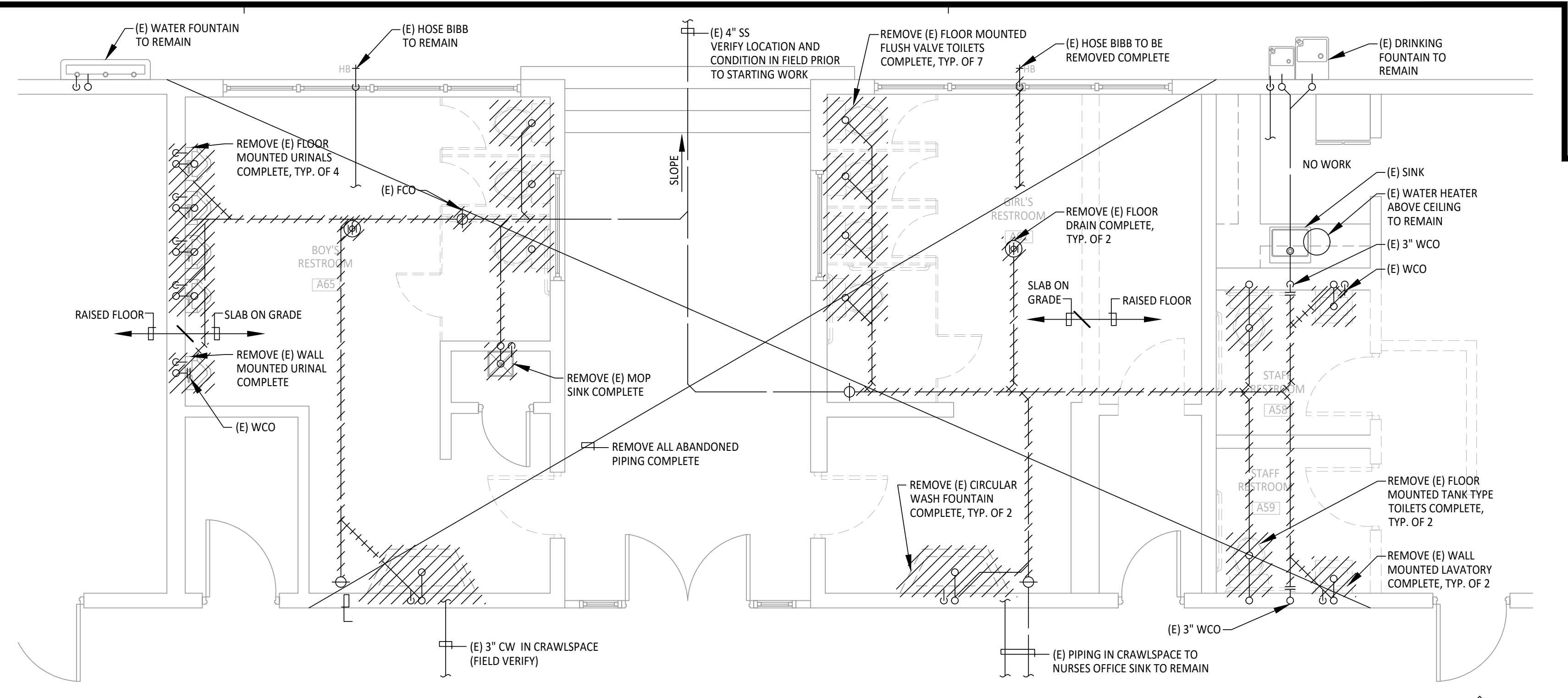


**SHERWOOD ELEM. SCHOOL**  
 110 SOUTH WOOD STREET  
 SALINAS, CA 93905

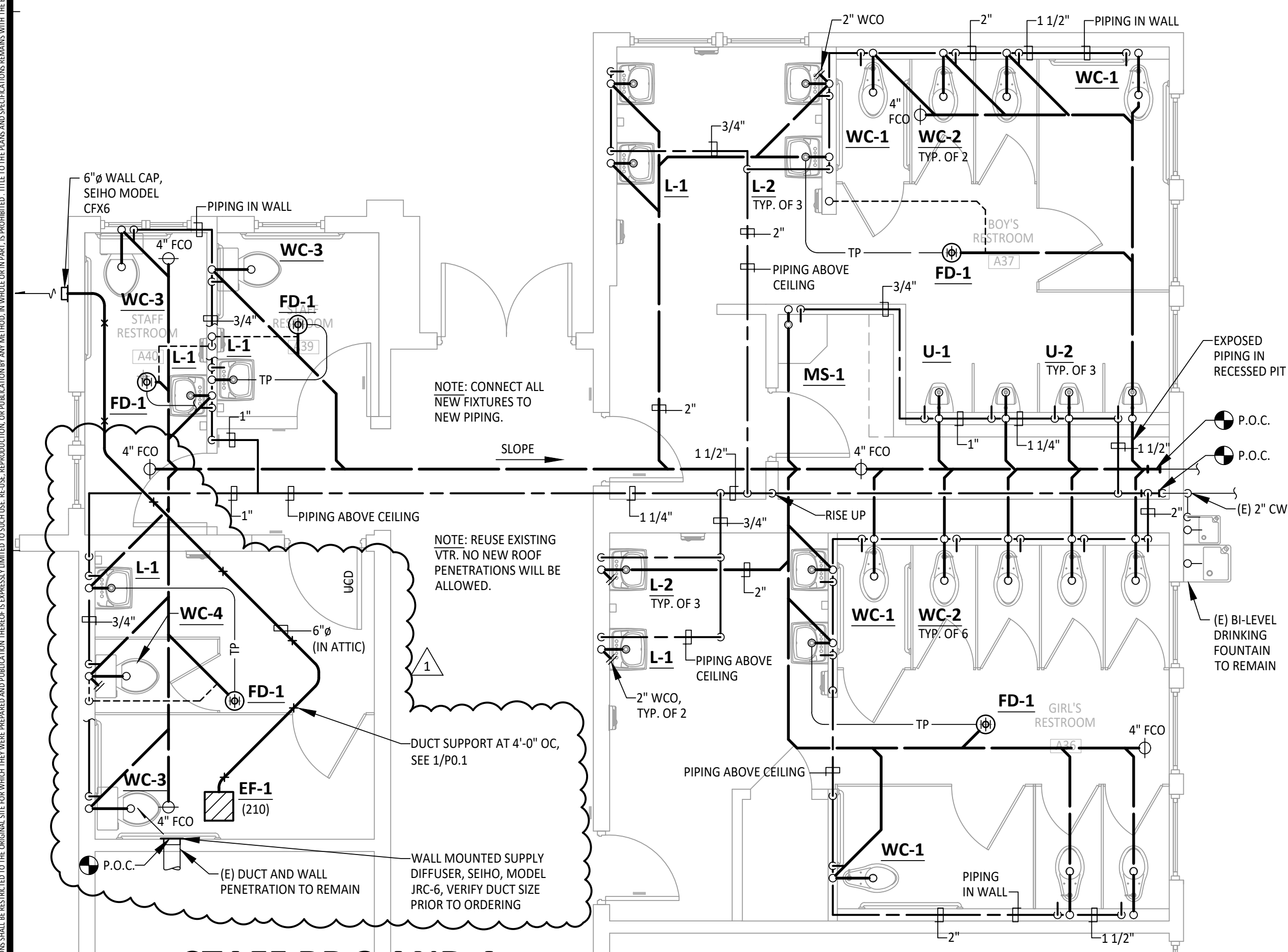
SITE PLAN - PLUMBING  
 NEW BUS DROP-OFF AND PARKING FOR:  
 DATE: 01/26/2022  
 SCALE: 1/16" = 1'-0"  
 DRAWN: CADD  
 JOB: 20035  
 SHEET: P1.1  
 OF SHEETS



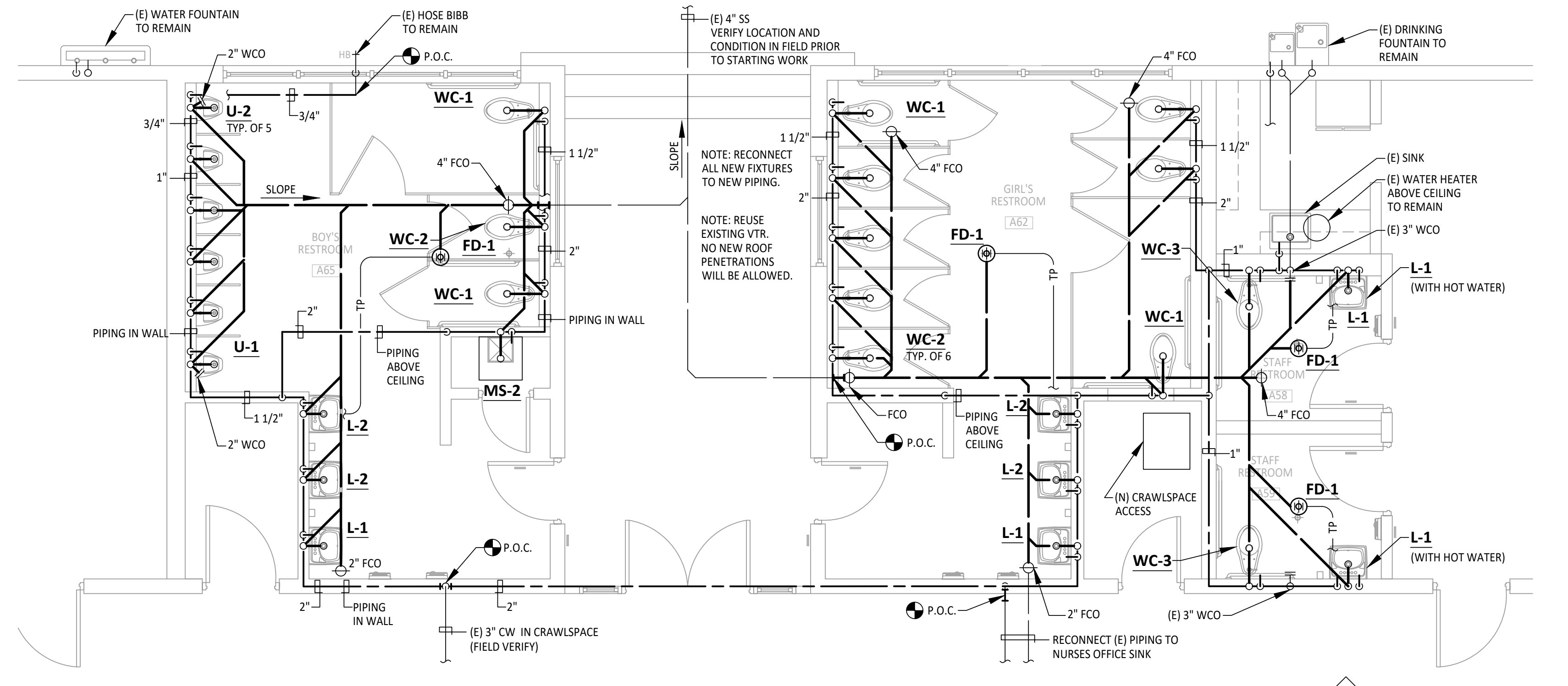
**3**  
**M2.1** STAFF RR 3 AND 4, BOYS RR 2, AND GIRLS RR 2 - PLUMBING AND MECHANICAL DEMOLITION  
 SCALE: 1/4" = 1'-0"  
 PROJECT NORTH



**1**  
**M2.1** BOYS RR 1, GIRLS RR 1 AND STAFF RR 1 AND 2 - PLUMBING DEMOLITION  
 SCALE: 1/4" = 1'-0"  
 PROJECT NORTH



**4**  
**M2.1** STAFF RR 3 AND 4, BOYS RR 2, AND GIRLS RR 2 - PLUMBING AND MECHANICAL NEW  
 SCALE: 1/4" = 1'-0"  
 PROJECT NORTH



**2**  
**M2.1** BOYS RR 1, GIRLS RR 1 AND STAFF RR 1 AND 2 - PLUMBING NEW  
 SCALE: 1/4" = 1'-0"  
 PROJECT NORTH

REVISIONS DATE	BY	DESCRIPTION
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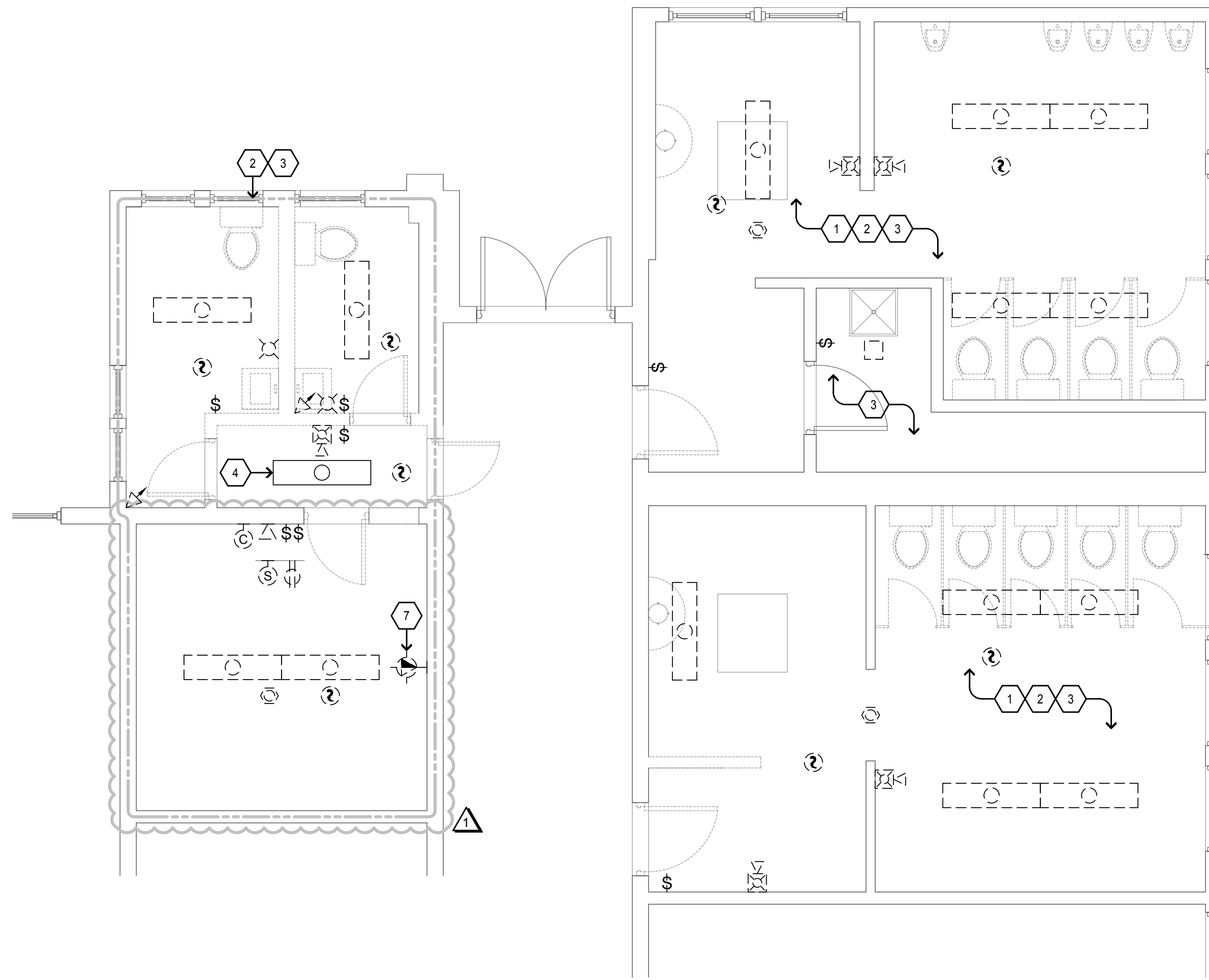


ENLARGED RESTROOM PLANS - PLUMBING DEMOLITION AND NEW  
 NEW BUS DROP-OFF AND PARKING FOR:  
**SHERWOOD ELEM. SCHOOL**  
 110 SOUTH WOOD STREET  
 SALINAS, CA 93905

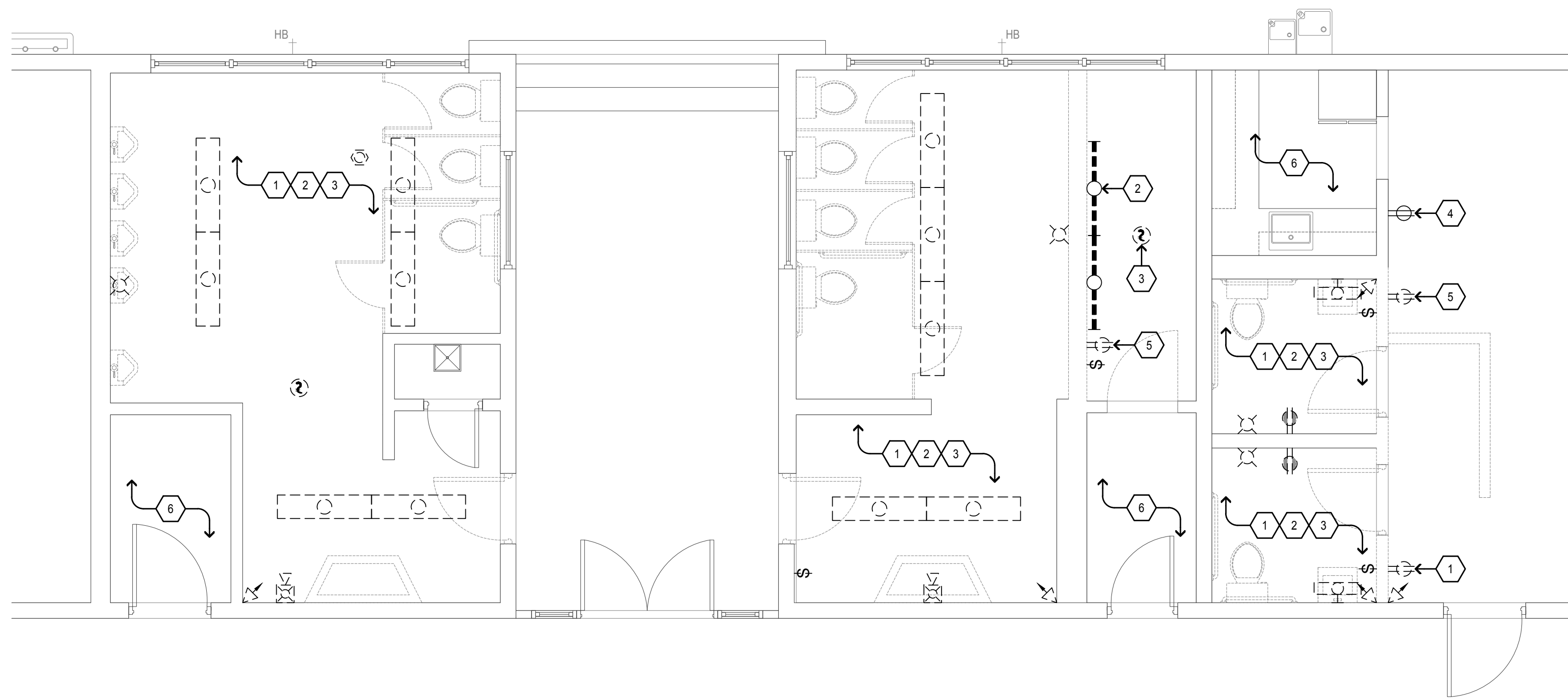
DATE	01/26/2022
SCALE	1/4" = 1'-0"
DRAWN	CADD
JOB	20035
SHEET	P2.1
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 Monterey, California 93940-5788  
 AE Project #: 20220439.11



**2 ELECTRICAL DEMOLITION PLAN - SOUTHEAST WING RESTROOM**  
 SCALE: 1/4"=1'-0" 4' 0' 1' 2' 3' 4'



**1 ELECTRICAL DEMOLITION PLAN - NORTHWEST WING RESTROOM**  
 SCALE: 1/4"=1'-0" 4' 0' 1' 2' 3' 4'

- ### SHEET NOTES
- PER GENERAL DEMOLITION NOTES ON THIS SHEET, CONTRACTOR SHALL DEMOLISH EXISTING RECEPTACLE AND PRESERVE EXISTING CIRCUIT FOR RECONNECTION UNDER NEW WORK; SEE SHEET E4.1 FOR NEW WORK.
  - PER GENERAL DEMOLITION NOTES ON THIS SHEET, CONTRACTOR DEMOLISH EXISTING LIGHTING FIXTURES AND ASSOCIATED CONTROLS AND PRESERVE EXISTING LIGHTING CIRCUIT FOR RECONNECTION OF NEW FIXTURES UNDER NEW WORK; SEE SHEET E5.1 FOR NEW WORK.
  - CONTRACTOR SHALL CAREFULLY DISCONNECT ALL FIRE ALARM AND PRESERVE DEVICES AND CIRCUITS FOR RECONNECTION UNDER NEW WORK; SEE SHEET FA4.1 FOR NEW WORK.
  - EXISTING TO REMAIN.
  - CONTRACTOR SHALL DEMOLISH DEVICE PER GENERAL DEMOLITION NOTES ON THIS SHEET.
  - NO ELECTRICAL DEMOLITION WORK IN THIS AREA, U.O.N.
  - CONTRACTOR SHALL CAREFULLY DISCONNECT WIRELESS ACCESS POINT/DATA FOR RECONNECTION UNDER NEW WORK; SEE SHEET FA4.1 FOR NEW WORK.

- ### GENERAL DEMOLITION NOTES
- CONTRACTOR SHALL FIELD VERIFY EXTENT OF ELECTRICAL DEMOLITION AND QUANTITIES OF ELECTRICAL TO BE REMOVED AS DICTATED BY THE REQUIREMENTS OF THE PROJECT.
  - REMOVAL SHALL INCLUDE WIRING, RACEWAY, BOXES, SWITCHES, LIGHT FIXTURES, ETC. AS INDICATED ON THE PLANS AND AS REQUIRED BY THESE DEMOLITION NOTES.
  - RACEWAYS ASSOCIATED WITH ELECTRICAL BEING DEMOLISHED WHICH ARE CONCEALED IN EXISTING REMAINING WALLS MAY BE ABANDONED IN PLACE. REMOVE WIRING FROM CONDUIT.
  - RACEWAYS ASSOCIATED WITH ELECTRICAL BEING DEMOLISHED WHICH ARE EXPOSED SHALL BE REMOVED.
  - WHERE REMOVAL OF EQUIPMENT OR WIRING IS INDICATED, IT SHALL INCLUDE ALL ASSOCIATED WIRING BACK TO LAST ACTIVE REMAINING OUTLET, DEVICE, FIXTURE OR PANEL.
  - ELECTRICAL CONTRACTOR SHALL INSURE THAT ALL REMAINING ACTIVE CIRCUITS, DEVICES, OUTLETS, LIGHT FIXTURES, ETC. HAVE NOT BEEN DISCONNECTED OR MADE INOPERATIVE DURING DEMOLITION. ELECTRICAL CONTRACTOR SHALL RESTORE ALL INTERRUPTED OR DISCONNECTED CIRCUITS TO OPERATION.
  - ELECTRICAL CONTRACTOR SHALL REMOVE AND DISPOSE OF ALL REMOVED ELECTRICAL EQUIPMENT AND MATERIAL.
  - NO REMOVED EQUIPMENT OR MATERIAL SHALL BE REUSED AS PART OF NEW WORK, U.O.N.
  - EXISTING REMAINING CONCEALED RACEWAYS MAY BE REUSED FOR NEW WORK PROVIDED THEY MEET ALL REQUIREMENTS OF THE SPECIFICATION FOR NEW WORK.
  - EXISTING FLUSH OUTLETS MAY BE REUSED FOR NEW WORK PROVIDED THEY MEET ALL REQUIREMENTS OF THE SPECIFICATION FOR NEW WORK, MEET THE REQUIREMENTS OF THE CURRENT C.E.C. FOR VOLUME AND COINCIDE WITH LOCATION SHOWN FOR THE NEW WORK.
  - FLUSH OUTLET BOXES IN EXISTING WALLS TO REMAIN MAY BE ABANDONED IN PLACE. REMOVE DEVICES AND WIRING, PLUG OPENING AND PROVIDE AND INSTALL A BLANK DEVICE PLATE.
  - EXISTING WIRING SHOWN HAS BEEN TAKEN FROM OLD PLANS AND IS ASSUMED TO BE CORRECT. ELECTRICAL CONTRACTOR SHALL FIELD VERIFY ACTUAL CONDITIONS AND MAKE ADJUSTMENTS TO SUIT ACTUAL CONDITIONS AND TO MEET THE INTENT OF THE CONTRACT DOCUMENTS.
  - WHERE TELEPHONE, COMPUTER DATA, FIBER OPTICS, FIRE ALARM OR OTHER COMMUNICATIONS OUTLETS OR WIRING IS TO BE DEMOLISHED IT SHALL BE REMOVED BACK TO THE NEXT TERMINAL POINT. ELECTRICAL CONTRACTOR SHALL COORDINATE WITH OWNER OR HIS REPRESENTATIVE TO HAVE EQUIPMENT AND WIRING DESIGNATED FOR REMOVAL OR PRESERVATION PRIOR TO REMOVAL OF OUTLET BOXES, CONDUIT OR WIRING BY ELECTRICAL CONTRACTOR.
  - COORDINATE WITH OWNER PRIOR TO START OF DEMOLITION TO MINIMIZE POWER INTERRUPTIONS. WORK MAY HAVE TO OCCUR DURING NON-REGULAR BUSINESS HOURS. COORDINATE IN WRITING WITH OWNER ONE WEEK PRIOR TO PLANNED POWER INTERRUPTIONS.

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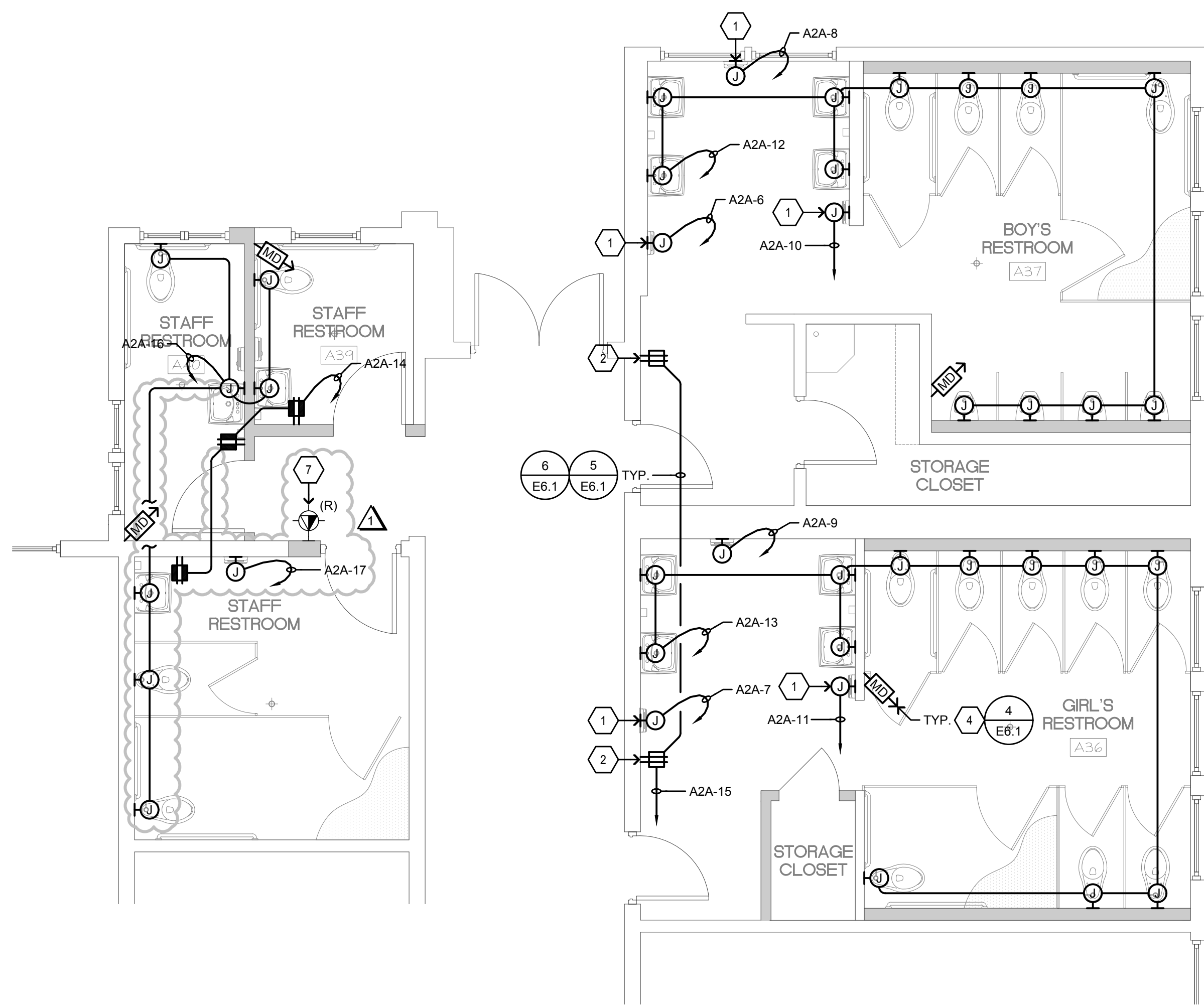
ELECTRICAL DEMOLITION PLAN - RESTROOMS  
 NEW BUS DROP-OFF AND PARKING FOR:  
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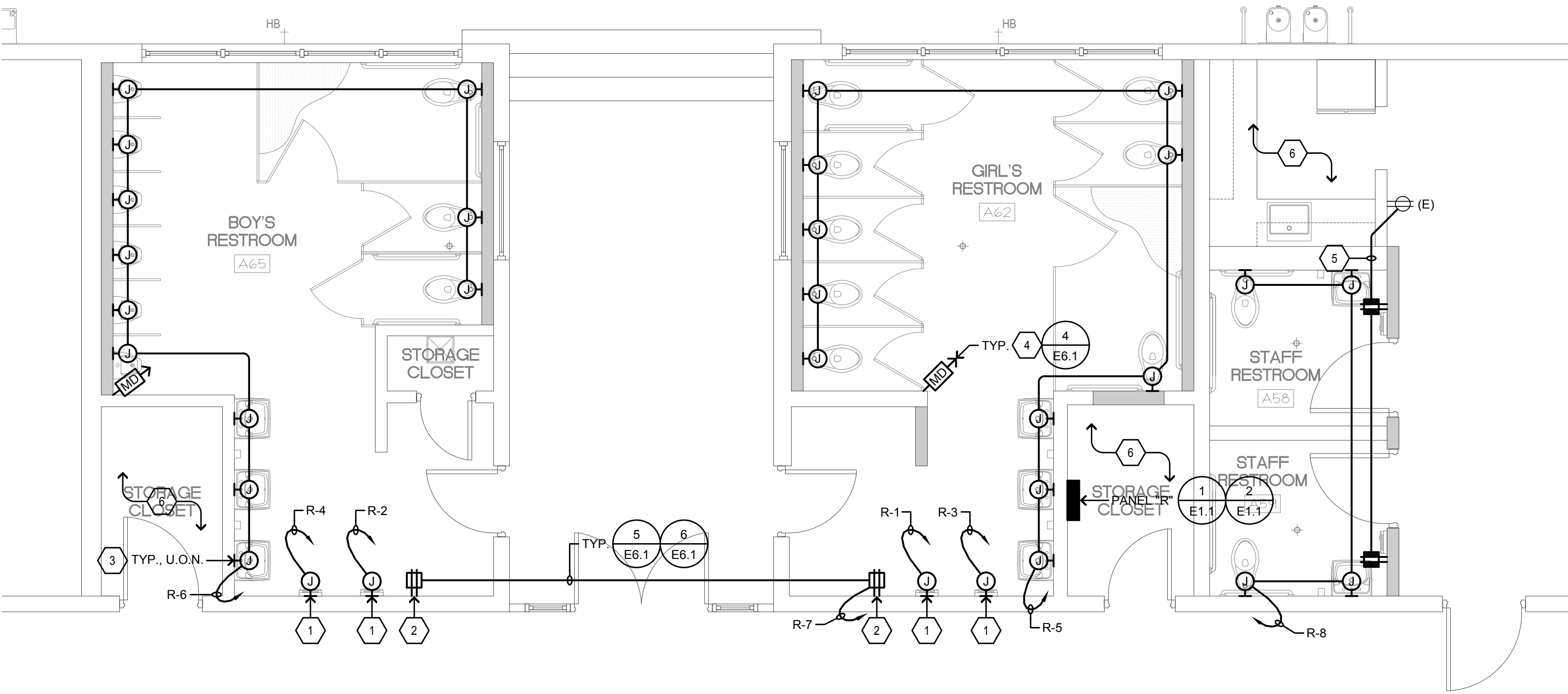
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DRAWN	CADD
JOB	20035
SHEET	<b>E3.1</b>

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**2 POWER PLAN - SOUTHEAST WING RESTROOM**  
 SCALE: 1/4"=1'-0"



**1 POWER PLAN - NORTHWEST WING RESTROOM**  
 SCALE: 1/4"=1'-0"

### PANELBOARD SCHEDULE

PANEL R											
Load	A	B	Bkr	Clk	ab	Clk	Bkr	A	B	Load	
HAND DRYER - GIRL'S RESTROOM AG2	1725		20/1	1	2	20/1	1725			HAND DRYER - BOYS RESTROOM AG5	
HAND DRYER - GIRL'S RESTROOM AG2		1725	20/1	3	4	20/1		1725		HAND DRYER - BOYS RESTROOM AG5	
FLUSH VALVES/FAUCET SENSORS - GIRL'S RR AG2	500		20/1	5	6	20/1	500			FLUSH VALVES/FAUCET SENSORS - BOYS RR AG5	
RECEPTS - BOYS & GIRL'S RESTROOMS		360	20/1	7	8	20/1		360		FLUSH VALVES/FAUCET SENSORS - STAFF RRS	
SPARE			20/1	9	10	20/1				SPARE	
SPARE			20/1	11	12	20/1				SPARE	
SPARE			20/1	13	14	20/1				SPARE	
SPACE ONLY				15	16					SPACE ONLY	
SPACE ONLY				17	18					SPACE ONLY	
SPACE ONLY				19	20					SPACE ONLY	
SPACE ONLY				21	22					SPACE ONLY	
SPACE ONLY				23	24					SPACE ONLY	
	2225	2085						2225	2225		

1 SUBMITTAL SHALL MATCH EXACT BREAKER LOCATIONS SHOWN.  
 2 LABEL PANEL FOR SHORT CIRCUIT AMPS AVAILABLE PER CEC 110-24.

KVA Phase A	4.5	Total Load KVA	8.8
KVA Phase B	4.3	Total Load Amperes	37

- ### SHEET NOTES
- LOCATE FOR ELECTRIC HAND DRYER, 15A, 120V.
  - PROVIDE AND INSTALL GFCI RECEPTACLE WITH LOCKABLE COVER.
  - CONVERT 120V DOWN VIA TRANSFORMER TO FLUSH VALVES/FAUCET SENSOR VIA 1/2" C.; SEE PLUMBING PLANS FOR EXACT REQUIREMENTS.
  - SECURITY MOTION DETECTOR; VERIFY EXACT LOCATION WITH ARCHITECT PRIOR TO ROUGH-IN. MOUNT AT +8'-0" A.F.F.
  - SPLICE AND EXTEND EXISTING CIRCUIT PRESERVED DURING DEMOLITION WORK TO NEW RECEPTACLES.
  - NO NEW WORK IN THIS AREA, U.O.N.
  - CONTRACTOR SHALL RECONNECT EXISTING WIRELESS ACCESS POINT PRESERVED DURING DEMOLITION WORK; COORDINATE EXACT LOCATION WITH DISTRICT PRIOR TO ROUGH-IN.

### BRANCH CIRCUIT CONDUCTOR SIZING TABLE

CIRCUIT AMPACITY/VOLTAGE	CIRCUIT LENGTH	REQUIREMENT
20/120	56'-90'	1/2" C., 2 #10 & 1 #10 GND.
20/120	91'-140'	1/2" C., 2 #8 & 1 #10 GND.
20/277	131'-205'	1/2" C., 2 #10 & 1 #10 GND.
20/277	206'-330'	1/2" C., 2 #8 & 1 #10 GND.

**NOTE:**  
 CONTRACTOR SHALL SIZE BRANCH CIRCUIT CONDUCTORS PER THE TABLE ABOVE AS DETERMINED BY THE CIRCUIT CONDUCTOR LENGTH, U.O.N. CONTRACTOR SHALL SPLICE TO #12 AWG WITHIN TERMINATION BOX FOR DEVICE CONNECTION IF NECESSARY.

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11/07/23	CC	ADDENDUM #001



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**POWER PLAN - RESTROOMS**  
 NEW BUS DROP-OFF AND PARKING FOR:  
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DRAWN	CADD
JOB	20035
SHEET	<b>E4.1</b>

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**DAYLIT ZONES LEGEND**

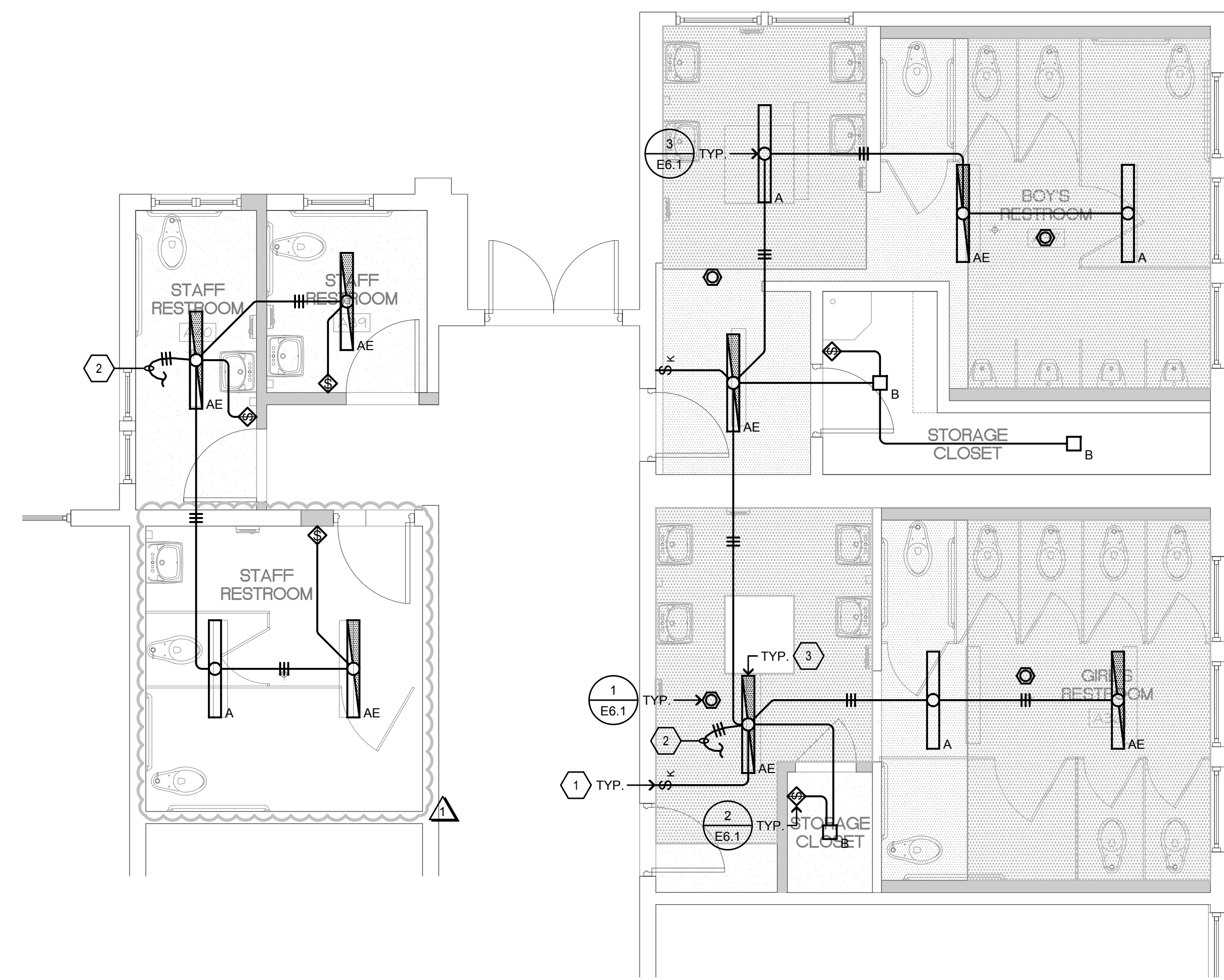
-  PRIMARY DAYLIT ZONE
-  SECONDARY DAYLIT ZONE

**GENERAL NOTE:**

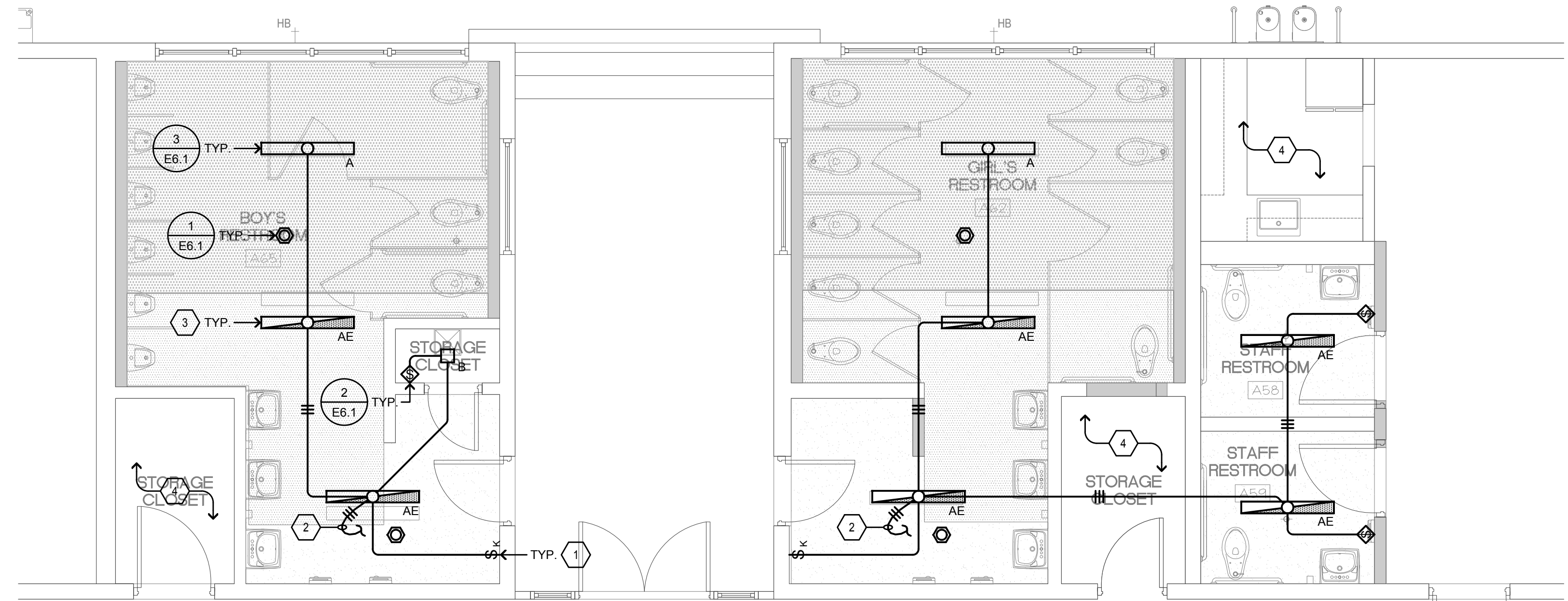
SEE SHEET E6.1 FOR LIGHTING CONTROLS AND SEQUENCE OF OPERATION.

**SHEET NOTES**

1. PROVIDE AND INSTALL LEVITON #1221-2IL KEYED SWITCH.
2. CONNECT TO EXISTING LIGHTING CIRCUIT PRESERVED DURING DEMOLITION WORK.
3. CONNECT EMERGENCY BATTERY BACK-UP TO ADDITIONAL UNSWITCHED "HOT" SERVING SAME SPACE.
4. NO NEW WORK IN THIS AREA. U.O.N.



**2 LIGHTING PLAN - SOUTHEAST WING RESTROOM**  
 SCALE: 1/4"=1'-0" 



**1 LIGHTING PLAN - NORTHWEST WING RESTROOM**  
 SCALE: 1/4"=1'-0" 

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**LIGHTING PLAN - RESTROOMS**  
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 SCALE AS NOTED  
 DRAWN CADD  
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 SHEET E5.1

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### FIRE ALARM EQUIPMENT LIST

SYMBOL	DESCRIPTION AND MODEL NUMBER	MFGR'S PART No.	CSFM LISTING
(E) FACP	EXISTING ADDRESSABLE FIRE ALARM CONTROL PANEL, NOTIFIER NFS-640 SERIES.	NFS-640	7165-0028.0243
②	ADDRESSABLE PHOTO ELECTRIC FIRE ALARM SMOKE DETECTOR AND BASE, NOTIFIER FSP-951 SERIES.	FSP-951	7272-0028.0503
①	ADDRESSABLE FIRE ALARM HEAT DETECTOR AND BASE, 135 DEG. FIXED TEMPERATURE AND RATE-OF RISE, NOTIFIER FST-951 SERIES. (DEVICES WITH "A" INDICATE ABOVE CEILING)	FST-951	7270-0028.0502
⊗	WALL MOUNTED MULTI-CANDELA STROBE WITH FIELD SELECTABLE CANDELA SETTINGS OF 15, 30, 75 AND 110 CANDELA. SYSTEM SENSOR, SWL SERIES.	SWL	7125-1653.0504

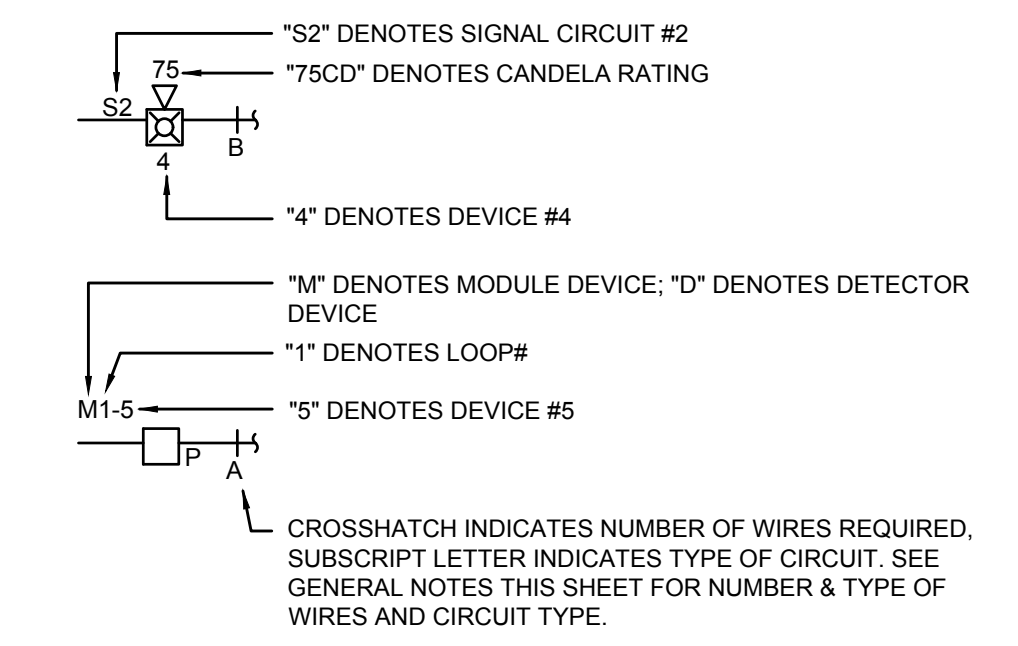
### FIRE ALARM GENERAL NOTES

1. WIRING MUST BE LISTED FOR USE AS REQUIRED BY TITLE 24/CEC, ARTICLE 760.
2. WIRE USED IN WET LOCATIONS SHALL BE OF AN APPROVED TYPE IN ACCORDANCE WITH 3-310-8, T24/CEC (I.E. THHW OR EQUAL).
3. UNDER GROUND AND EXTERIOR CONDUITS TO HAVE WATERTIGHT FITTINGS AND WIRES APPROVED FOR WET LOCATION.
4. ALL CONDUCTORS SHALL BE ROUTED IN CONDUIT UNLESS SPECIFICALLY NOTED OTHERWISE ON PLANS. MINIMUM CONDUIT SIZE SHALL BE 3/4."
5. THE CONDUIT AND WIRE SHOWN ON THESE PLANS ARE SHOWN DIAGMAMTICALLY. EXACT LOCATIONS SHALL BE DETERMINED IN THE FIELD TO SUIT FIELD CONDITIONS. "AS-BUILT" PLANS SHALL BE MAINTAINED AND BE PROVIDED AS REQUIRED BY THE PROJECT INSPECTOR OF RECORD.
6. PENETRATIONS OF FIRE RATED WALLS SHALL BE PROTECTED IN ACCORDANCE WITH CALIFORNIA BUILDING CODE, CHAPTER 7, TITLE 24. PROVIDE DETAILS OF THROUGH PENETRATION FIRE-STOP SYSTEMS FOR ALL PIPE/CABLE/CONDUIT PASSING THROUGH FIRE RATED WALLS/FLOORS REQUIRING PROTECTED OPENINGS.
7. ALL DEVICES SHALL BE "CSFM" LISTED.
8. EXTERIOR DEVICES SHALL BE LISTED FOR EXTERIOR USE BY "CSFM."
9. AUDIBLE ALARM PRODUCED BY "FACP" SHALL SOUND THE CALIFORNIA UNIFORM SIGNAL IN TEMPORAL MODE.
10. AUDIBLE FIRE ALARM SOUND LEVEL SHALL BE AT LEAST 15DBA ABOVE THE AVERAGE SOUND LEVEL.
11. AUDIBLE SIGNALS INTENDED FOR OPERATION IN THE PUBLIC SHALL HAVE A SOUND LEVEL OF NOT LESS THAN 75DBA AT 10 FEET OR MORE THAN 110DBA AT THE MINIMUM HEARING DISTANCES FROM THE AUDIBLE APPLIANCE.
12. WHERE VISUAL DEVICES ARE REQUIRED, VISUAL DEVICE SHOULD NOT EXCEED 2 FLASHES PER SECOND AND SHOULD NOT BE SLOWER THAN 1 FLASH EVERY SECOND. THE DEVICE SHALL HAVE A PULSING LIGHT SOURCE NOT LESS THAN 15 CANDELA. NO PLACE IN ANY ROOM SHALL BE MORE THAN 50 FEET FROM A CANDELA.
13. APPROVED BY THE "DIVISION OF THE STATE ARCHITECT/OFFICE OF REGULATION SERVICES," CONTRACTOR SHALL PROVIDE COPIES OF APPROVED PLANS TO THE PROJECT INSPECTOR OF RECORD PRIOR TO BEGINNING WORK. THE CONTRACTOR SHALL SUBMIT SHOP DRAWING TO ENGINEER PRIOR TO PURCHASE FOR REVIEW. THE FIRE PROTECTION SYSTEM SHALL NOT BE INSTALLED UNTIL SHOP DRAWINGS HAVE BEEN SUBMITTED TO AND RECEIVED BY THE ENGINEER OF RECORD.
14. FINAL ALARM TEST SHALL BE WITNESSED BY THE DSA INSPECTOR OF RECORD (IOR), BOTH THE DSA INSPECTOR OF RECORD (IOR) AND THE LOCAL FIRE AUTHORITY SHALL BE NOTIFIED OF DATE AND TIME OF FINAL FIRE ALARM TESTING BY THE FIRE ALARM CONTRACTOR. FIRE ALARM CONTRACTOR SHALL PROVIDE "RECORD OF COMPLETION" TO THE INSPECTOR OF RECORD (IOR)/DSA AFTER COMPLETION OF OPERATIONAL ACCEPTANCE TEST.
15. POWER SERVICE SHALL BE ON A DEDICATED, 120V BRANCH CIRCUIT, WITH A RED MARKING AND IDENTIFIED AS "FIRE ALARM CIRCUIT CONTROL."
16. AUTOMATIC FIRE ALARM SYSTEM SHALL TRANSMIT THE ALARM, SUPERVISORY AND TROUBLE SIGNALS TO AN APPROVED SUPERVISING STATION AS REQUIRED BY NFPA 72 AS AMENDED BY CFC CHAPTER 80. THE SUPERVISING STATION SHALL BE LISTED AS EITHER UJFX OR UJUS BY UNDERWRITERS LABORATORY OR SHALL MEET THE REQUIREMENTS OF FACTORY MUTUAL RESEARCH APPROVAL STANDARD 3011.

### SYMBOLS & ABBREVIATIONS

- SYMBOLS**
- CONDUIT - CONCEALED IN WALLS OR CEILING.
  - CONDUIT - IN OR BELOW FLOOR: 3/4" MIN.
  - CONDUIT CONTINUATION.
  - 201 ROOM NUMBER.
  - ② SHEET NOTE REFERENCE SYMBOL; SEE ASSOCIATED NOTE ON SAME SHEET.
  - 2/E1 DETAIL OR SECTION DESIGNATION.
- ABBREVIATIONS**
- |                               |                                     |
|-------------------------------|-------------------------------------|
| ARCH. ARCHITECT               | FSD FIRE SMOKE DAMPER               |
| AWG AMERICAN WIRE GAUGE       | IDC INITIATING DEVICE CIRCUITS      |
| BKR BREAKER                   | (N) NEW                             |
| C CONDUIT                     | NAC NOTIFICATION APPLIANCE CIRCUITS |
| CB CIRCUIT BREAKER            | NIC NOT IN CONTRACT                 |
| CKT CIRCUIT                   | NO NUMBER                           |
| CLG CEILING                   | SLC SIGNALING LINE CIRCUITS         |
| (E) EXISTING                  | SLC SIGNALING LINE CIRCUITS         |
| EOL END OF LINE               | TYP TYPICAL                         |
| FA FIRE ALARM                 | UON UNLESS OTHERWISE NOTED          |
| FACP FIRE ALARM CONTROL PANEL | WP WEATHERPROOF                     |
| FBO FURNISHED BY OTHERS       |                                     |

### TYPICAL ZONE NOMENCLATURE

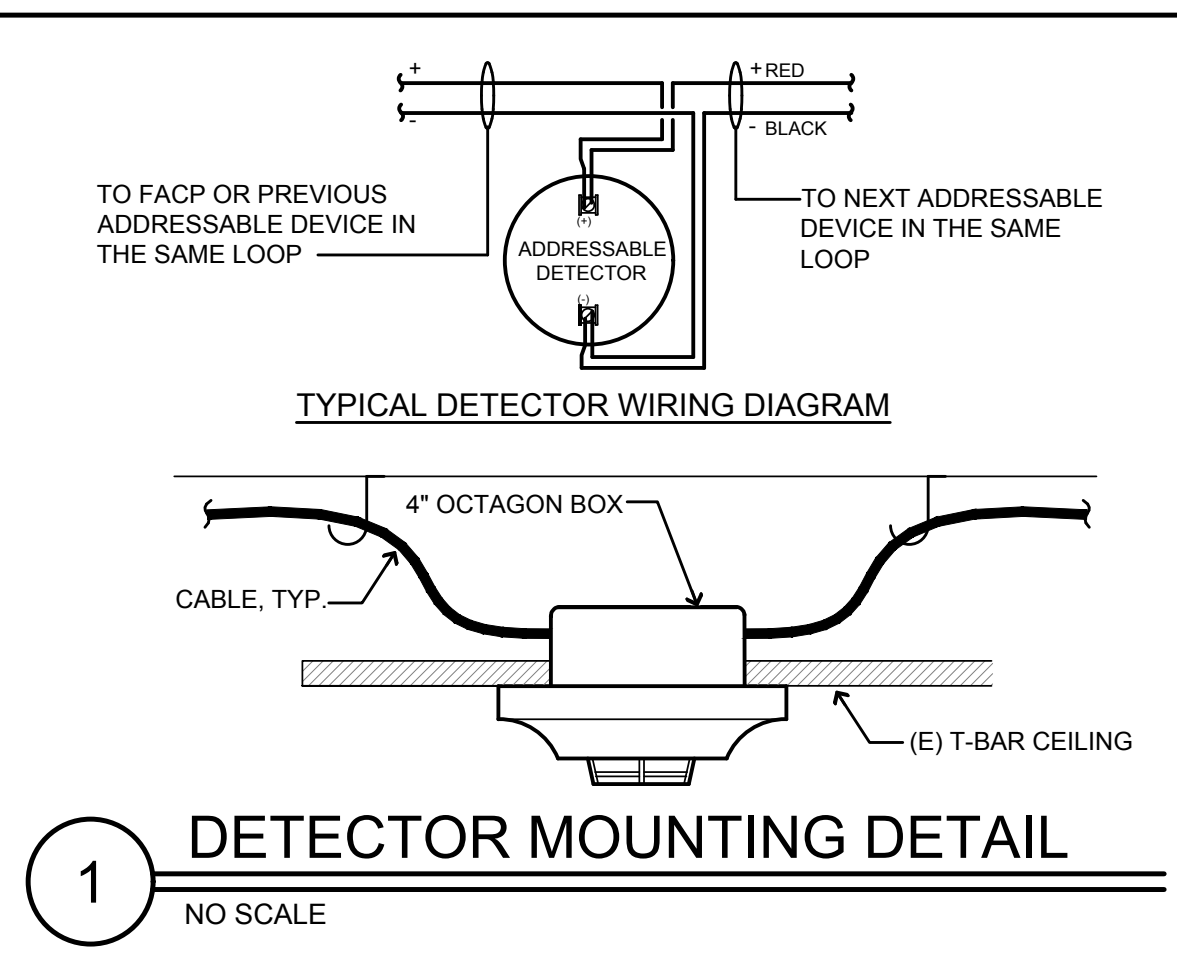
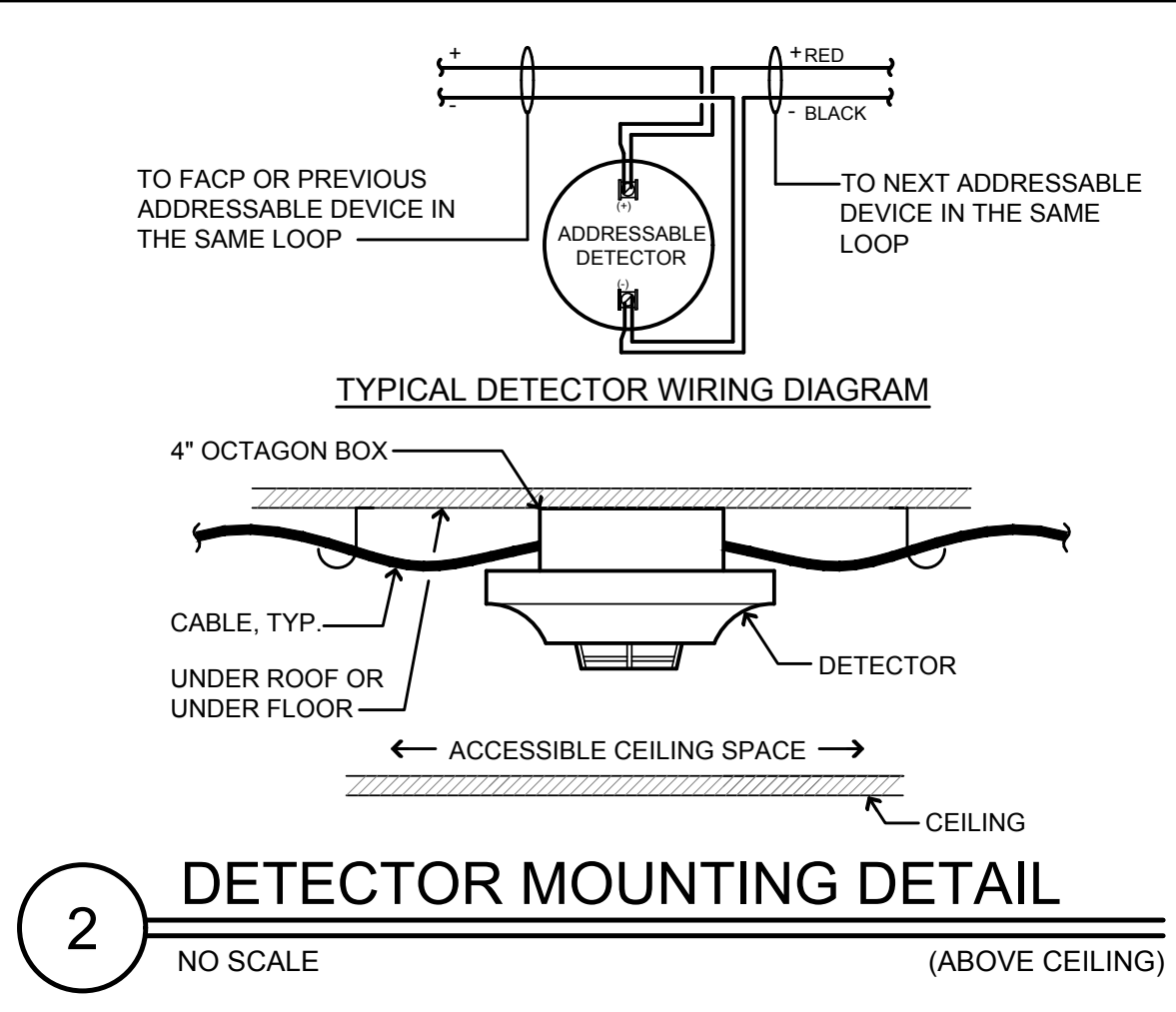
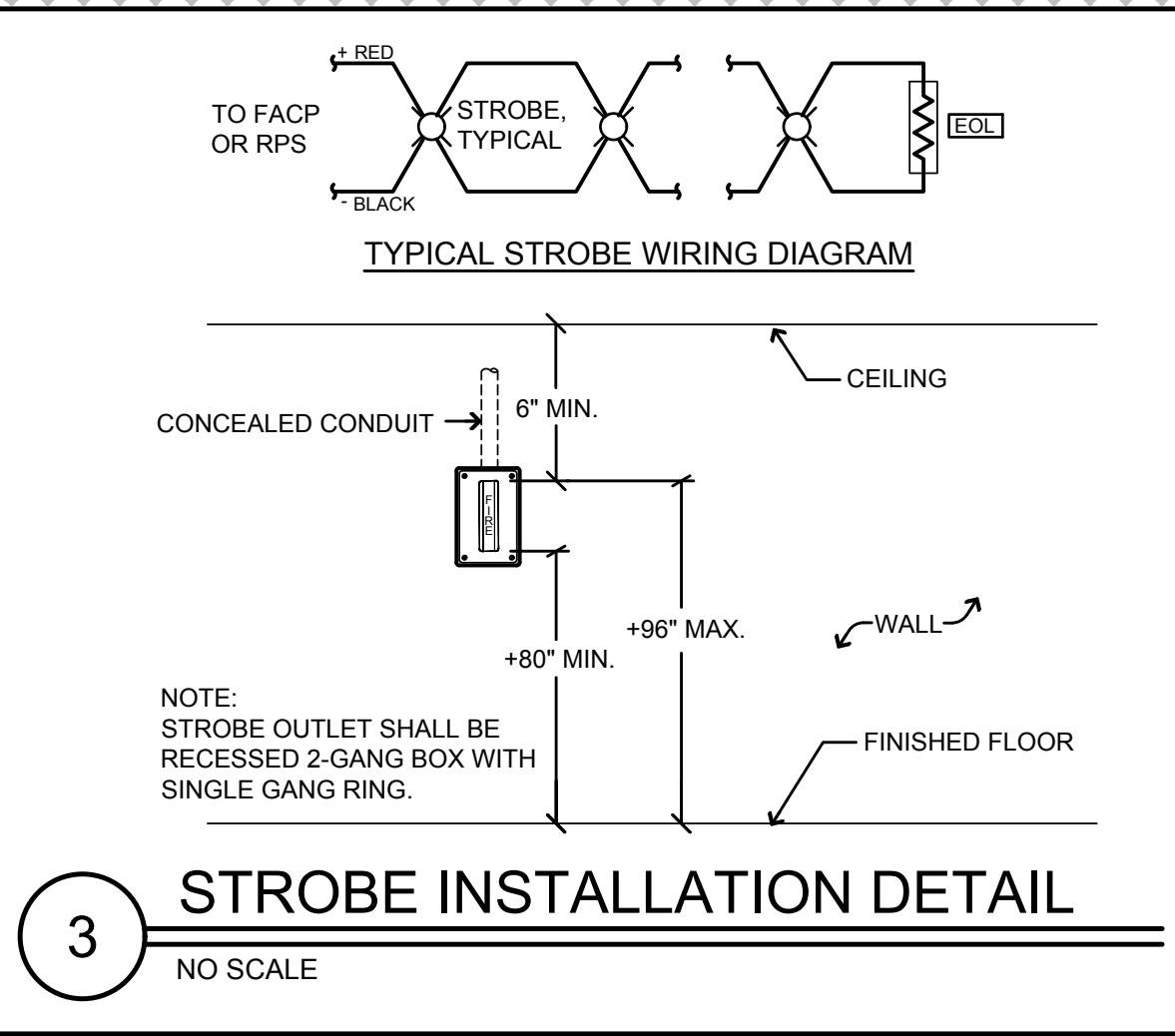


### PROJECT DESCRIPTION

SCOPE OF WORK:  
 EXTEND EXISTING ADDRESSABLE FIRE ALARM SYSTEM TO REMODELED RESTROOMS.

SYSTEM DESCRIPTION:  
 SLC = CLASS B / STYLE A  
 IDC = CLASS B / STYLE B  
 NAC = CLASS B / STYLE Y

FIRE ALARM SYSTEM DESIGN BY:  
 NAJIB ANWARY



### FIRE ALARM SYSTEM OPERATIONAL MATRIX

CAUSE	ALARM	TROUBLE	SUPERVISORY	MISC.	REMARKS
SMOKE DETECTORS	•	•	•	•	
HEAT DETECTORS	•	•	•	•	
SYSTEM RESET	•	•	•	•	
SIGNAL SILENCE	•	•	•	•	
AC POWER FAILURE	•	•	•	•	
FIRE ALARM TROUBLE (OPEN, SHORTS, OR GROUNDS) ON INITIATION OR SIGNALING CIRCUITS	•	•	•	•	

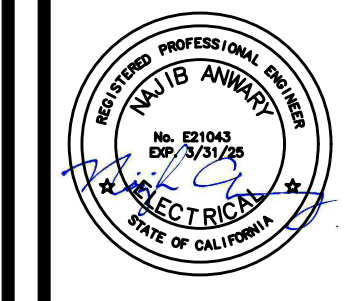
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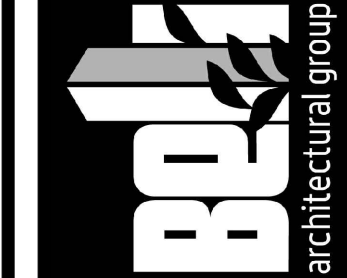
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FIRE ALARM SYMBOLS, ABBREVIATIONS, EQUIPMENT LIST, OPERATIONAL MATRIX, DETAILS & NOTES NEW BUS DROP-OFF AND PARKING FOR:  
**SHERWOOD ELEM. SCHOOL**  
 110 SOUTH WOOD STREET  
 SALINAS, CA 93905

DATE	11/01/2023
SCALE	A5 NOTED
DRAWN	CADD
JOB	20035
SHEET	FA01

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### VOLTAGE DROP CALCS

VOLTAGE DROP (VD) CALCULATION - VISUAL CIRCUIT No. SAE2

DEVICE #	1st	2nd	3rd	4th	5th	6th	7th	8th	9th	10th
GAUGE WIRE	12	12	12	12	12	12	12	12	12	12
DISTANCE (FT)	10	14	18	31	15	42	11	18	17	18
AMPS OF DEVICE	0.040	0.030	0.030	0.030	0.030	0.030	0.030	0.030	0.030	0.030
TOTAL AMPS@DEV.	0.380	0.34	0.31	0.28	0.25	0.22	0.19	0.16	0.13	0.10
VOLT. DROP @ DEV.	0.013	0.016	0.018	0.029	0.012	0.031	0.007	0.01	0.007	0.006

WIRE RESIS. CIRC. FORMULA  
 SIZE /M FT. MILS.

TOTAL VOLT DROP = **0.152**      10    1.29    10380    I \* FEET \* 21.6

CKT VOLTAGE = **20.4**      14    3.19    4110

% VOLTAGE DROP = **0.7%**      16    5.08    2580

VOLTAGE DROP (VD) CALCULATION - VISUAL CIRCUIT No. SAW2

DEVICE #	1st	2nd	3rd	4th	5th	6th	7th	8th	9th	10th
GAUGE WIRE	12	12	12	12	12	12	12	12	12	12
DISTANCE (FT)	18	16	22	14	4	55	30	7	55	33
AMPS OF DEVICE	0.030	0.030	0.030	0.030	0.040	0.030	0.030	0.030	0.115	0.040
TOTAL AMPS@DEV.	0.405	0.375	0.345	0.315	0.285	0.215	0.185	0.155	0.040	0.040
VOLT. DROP @ DEV.	0.024	0.020	0.025	0.015	0.004	0.046	0.021	0.004	0.028	0.004

WIRE RESIS. CIRC. FORMULA  
 SIZE /M FT. MILS.

TOTAL VOLT DROP = **0.192**      12    2.01    6530    I \* FEET \* 21.6

CKT VOLTAGE = **20.4**      14    3.19    4110

% VOLTAGE DROP = **0.9%**      16    5.08    2580

SPEAKER CIRCUIT No. VAE2

Device #	1st	2nd	3rd	4th	5th	6th	7th	8th	9th	10th
GAUGE WIRE	12	12	12	12	12	12	12	12	12	12
DISTANCE (FT)	10	14	18	31	15	42	11	18	17	18
AMPS OF DEVICE	0.040	0.030	0.030	0.030	0.030	0.030	0.030	0.030	0.030	0.030
TOTAL AMPS@DEV.	0.380	0.34	0.31	0.28	0.25	0.22	0.19	0.16	0.13	0.10
VOLT. DROP @ DEV.	0.013	0.016	0.018	0.029	0.012	0.031	0.007	0.01	0.007	0.006

WIRE RESIS. CIRC. FORMULA  
 SIZE /M FT. MILS.

TOTAL VOLT DROP = **0.152**      10    1.29    10380    I \* FEET \* 21.6

CKT VOLTAGE = **20.4**      14    3.19    4110

% VOLTAGE DROP = **0.7%**      16    5.08    2580

SPEAKER CIRCUIT No. VAW2

Device #	1st	2nd	3rd	4th	5th	6th	7th	8th	9th	10th
GAUGE WIRE	12	12	12	12	12	12	12	12	12	12
DISTANCE (FT)	18	16	22	14	4	55	30	7	55	33
AMPS OF DEVICE	0.030	0.030	0.030	0.030	0.040	0.030	0.030	0.030	0.115	0.040
TOTAL AMPS@DEV.	0.405	0.375	0.345	0.315	0.285	0.215	0.185	0.155	0.040	0.040
VOLT. DROP @ DEV.	0.024	0.020	0.025	0.015	0.004	0.046	0.021	0.004	0.028	0.004

WIRE RESIS. CIRC. FORMULA  
 SIZE /M FT. MILS.

TOTAL VOLT DROP = **0.192**      12    2.01    6530    I \* FEET \* 21.6

CKT VOLTAGE = **20.4**      14    3.19    4110

% VOLTAGE DROP = **0.9%**      16    5.08    2580

### BATTERY CALCS

(E) FIRE ALARM CONTROL PANEL "FACP"

QTY	PRODUCT ID	DESCRIPTION	STANDBY		ALARM	
			EACH	TOTAL	EACH	TOTAL
1	AMP-24	(E) PRIMARY INPUT POWER UNIT	0.1300	0.1300	0.0520	0.0520
1	CP-3030	(E) PRIMARY CPU	0.1300	0.1300	0.1300	0.1300
5	LCM-300	(E) SIGNALING LINE CIRCUIT	0.1300	0.6500	0.1300	0.6500
5	LEM-3030	(E) SIGNALING LINE CIRCUIT	0.1300	0.6500	0.1300	0.6500
1	ADP-610	(E) ADDRESSABLE POWER SUPPLY	0.0000	0.0000	0.0000	0.0000
5	SLC	(E) SLC DEVICE ACTIVATION CURRENT	0.2000	1.0000	0.1300	0.6500
8	DA-2	(E) DIGITAL AUDIO AMPLIFIER	0.0000	0.0000	0.0000	0.0000
1	DVC-EM	(E) DIGITAL VOICE COMMAND	0.3000	0.3000	0.3000	0.3000
1	DVC-KD	(E) CONTROL KEYPAD	0.0600	0.0600	0.0600	0.0600
5	FFT-7	(E) FIRE FIGHTER TELEPHONE	0.0600	0.3000	0.0600	0.3000
3	LCB-80	(E) LOGIC CRYSTAL DISPLAY MODULE	0.0000	0.1500	0.1500	0.4500
1	UDACT	(E) UNIVERSAL DACT	0.0400	0.0400	0.1000	0.1000
PANEL STANDBY CURRENT			3.2900		3.0320	
PANEL ALARM CURRENT						

FIELD DEVICES

QTY	PRODUCT ID	DESCRIPTION	STANDBY		ALARM	
			EACH	TOTAL	EACH	TOTAL
158	FSP-851	(E) PHOTOELECTRIC SMOKE DETECTOR	0.0004	0.0632	0.0004	0.0632
128	FST-851	(E) THERMAL DETECTOR	0.0003	0.0384	0.0003	0.0384
10	FMS-1	(E) MONITOR MODULE	0.0004	0.0038	0.0004	0.0040
9	FCM-1	(E) CONTROL MODULE	0.0004	0.0034	0.0004	0.0036
2	FMS-1	(E) RELAY MODULE	0.0004	0.0008	0.0004	0.0008
1	NBC-12LX	(E) PULL STATION	0.0000	0.0000	0.0004	0.0004
2	FSP-851	ADDRESSABLE PHOTOELECTRIC SMOKE DETECTOR	0.0002	0.0004	0.0004	0.0008
8	FST-851	ADDRESSABLE THERMAL DETECTOR	0.0002	0.0016	0.0004	0.0032

CONTROL PANEL  
 CONTROL PANEL  
 FIELD DEVICES  
 TOTAL STANDBY CURRENT  
 24 HOUR STANDBY  
 TOTAL ALARM CURRENT  
 15 MINUTES OF ALARM (x 25)  
 TOTAL BATTERY REQUIREMENT (A+B)  
 SAFETY MARGIN (20%)  
 (E) BATTERY SUPPLIED

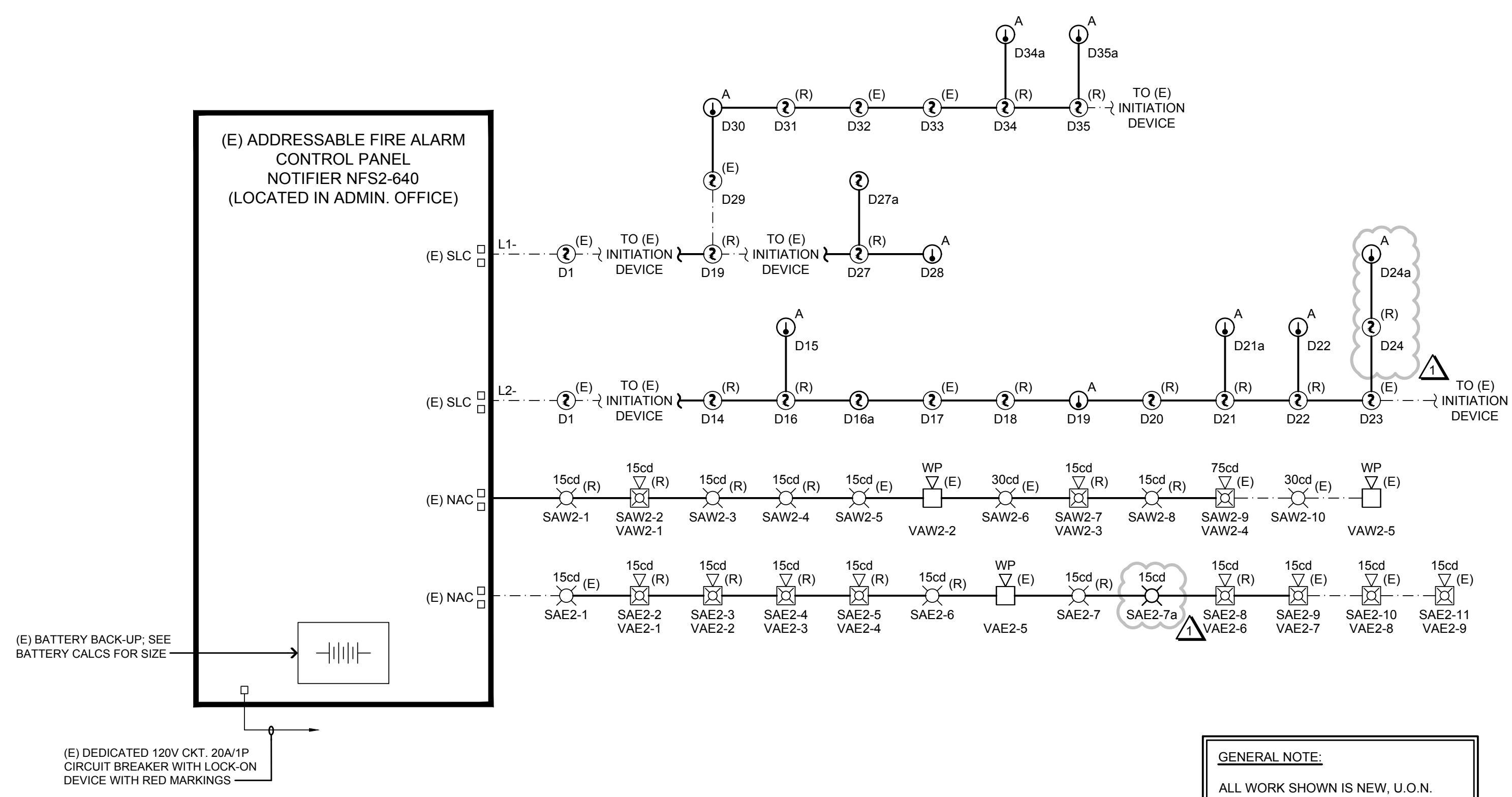
BATTERY CALCULATION (E) RPS-AE

QTY	MODEL No.	DEVICE DESCRIPTION	STANDBY		ALARM	
			EACH	TOTAL	EACH	TOTAL
1	FPS-2458	NOTIFIER REMOTE POWER SUPPLY	0.0700	0.0700	0.0700	0.0700
1	SAE-1	(E) VISUAL CIRCUIT	0.0000	0.0000	0.2650	0.2650
1	SAE-2	(E) VISUAL CIRCUIT	0.0000	0.0000	0.3800	0.3800
1	SAE-3	(E) VISUAL CIRCUIT	0.0000	0.0000	0.3800	0.3800
1	SAE-4	SPARE	0.0000	0.0000	0.0700	0.0700
1	SAE-5	SPARE	0.0000	0.0000	0.4200	0.4200
1	SAE-6	SPARE	0.0000	0.0000	0.0000	0.0000
PANEL STANDBY CURRENT			0.0700		0.0700	
PANEL ALARM CURRENT						
TOTAL SYSTEM CURRENT						
TOTAL STANDBY CURRENT (A)			0.0700		0.0700	
24 HOUR STANDBY			1.8000		1.8000	
TOTAL ALARM CURRENT (B)			2.0100		2.0100	
15 MINUTES OF ALARM (x 25)			0.5025		0.5025	
TOTAL BATTERY REQUIREMENT (A+B)			2.3025		2.3025	
SAFETY MARGIN (20%)			2.7630		2.7630	
(E) BATTERY SUPPLIED			(2) 7AH		(2) 7AH	

BATTERY CALCULATION (E) RPS-AW

QTY	MODEL No.	DEVICE DESCRIPTION	STANDBY		ALARM	
			EACH	TOTAL	EACH	TOTAL
1	FPS-2458	NOTIFIER REMOTE POWER SUPPLY	0.0700	0.0700	0.0700	0.0700
1	SAW-1	(E) VISUAL CIRCUIT	0.0000	0.0000	0.2650	0.2650
1	SAW-2	(E) VISUAL CIRCUIT	0.0000	0.0000	0.4050	0.4050
1	SAW-3	(E) VISUAL CIRCUIT	0.0000	0.0000	0.3800	0.3800
1	SAW-4	(E) VISUAL CIRCUIT	0.0000	0.0000	0.0700	0.0700
1	SAW-5	(E) VISUAL CIRCUIT	0.0000	0.0000	0.4200	0.4200
1	SAW-6	SPARE	0.0000	0.0000	0.0000	0.0000
PANEL STANDBY CURRENT			0.0700		0.0700	
PANEL ALARM CURRENT						
TOTAL SYSTEM CURRENT						
TOTAL STANDBY CURRENT (A)			0.0700		0.0700	
24 HOUR STANDBY			1.8000		1.8000	
TOTAL ALARM CURRENT (B)			2.0200		2.0200	
15 MINUTES OF ALARM (x 25)			0.5050		0.5050	
TOTAL BATTERY REQUIREMENT (A+B)			2.3050		2.3050	
SAFETY MARGIN (20%)			2.7660		2.7660	
(E) BATTERY SUPPLIED			(2) 7AH		(2) 7AH	

(E) ADDRESSABLE FIRE ALARM CONTROL PANEL NOTIFIER NFS2-640 (LOCATED IN ADMIN. OFFICE)



**1 FIRE ALARM RISER DIAGRAM**  
 NO SCALE

GENERAL NOTE:  
 ALL WORK SHOWN IS NEW, U.O.N.

**AURUM CONSULTING ENGINEERS**  
 MONTEREY BAY, INC.  
 Project No. 20-398.01  
 60 Garden Court • Suite 210 • Monterey, CA 93940  
 T.831.646.3330 • F.831.646.3336 • www.aurem.com

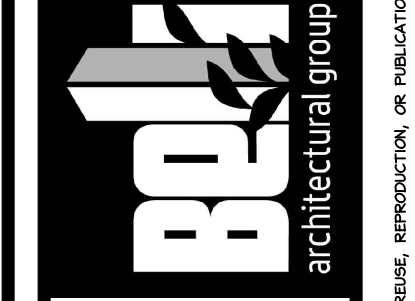
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REVISIONS

DATE	BY	DESCRIPTION
01/26/22	CC	1st DSA SUBMITTAL
11/07/22	CC	1st PLAN CHECK SUBMITTAL
01/31/23	CC	DSA BACKCHECK #3
06/30/23	CC	DSA BACKCHECK #2
11/01/23	CC	ADDENDUM #001



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 285 MONTEREY STREET, SUITE B, SALINAS, CA 93901  
 BELLIAG.COM



FIRE ALARM RISER DIAGRAM, BATTERY & VOLTAGE DROP CALCULATIONS  
 NEW BUS DROP-OFF AND PARKING FOR:  
**SHERWOOD ELEM. SCHOOL**  
 110 SOUTH WOOD STREET  
 SALINAS, CA 93905

DATE 11/01/2023  
 SCALE A5 NOTED  
 DRAWN CADD  
 JOB 20035  
 SHEET FA11

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**GENERAL NOTE**  
 FOR MOUNTING AND WIRING OF INITIATING DEVICES AND NOTIFICATION APPLIANCES SEE SHEET FA0.1.

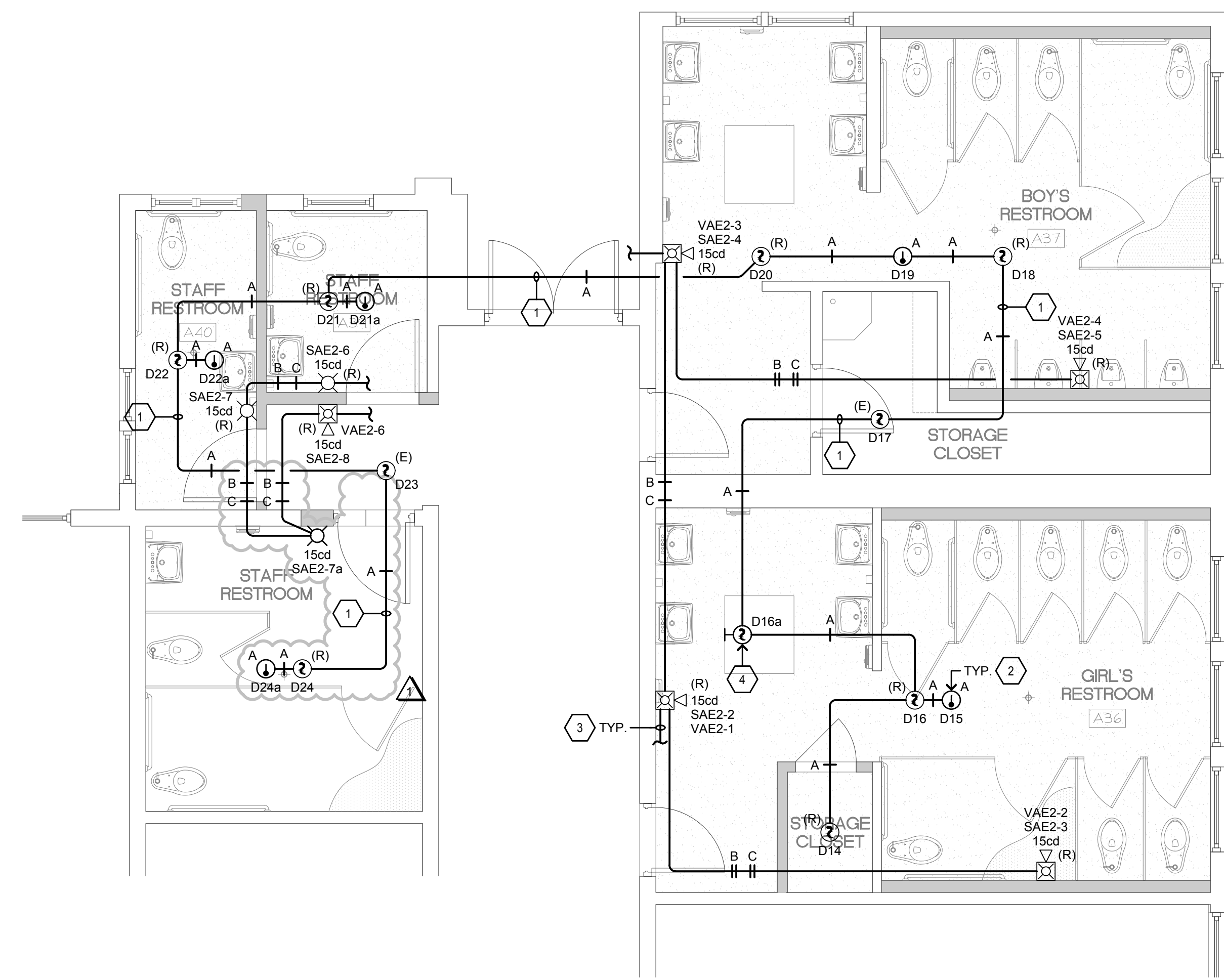
- SHEET NOTES**
- CONTRACTOR SHALL RECONNECT FIRE ALARM DEVICE TO EXISTING FIRE ALARM INITIATION CIRCUIT PRESERVED DURING DEMOLITION WORK.
  - WHERE NECESSARY PROVIDE & INSTALL ACCESS PANEL FOR HEAT DETECTOR ABOVE CEILING; 18" SQ. OPENING MINIMUM
  - CONTRACTOR SHALL SPLICE AND EXTEND EXISTING INCOMING/OUTGOING FIRE ALARM NOTIFICATION CIRCUIT PRESERVED DURING DEMOLITION WORK TO NEW DEVICE LOCATION.
  - MOUNT SMOKE DETECTOR IN SKYLIGHT.
  - NO NEW WORK IN THIS AREA, U.O.N.

**CABLE LEGEND**

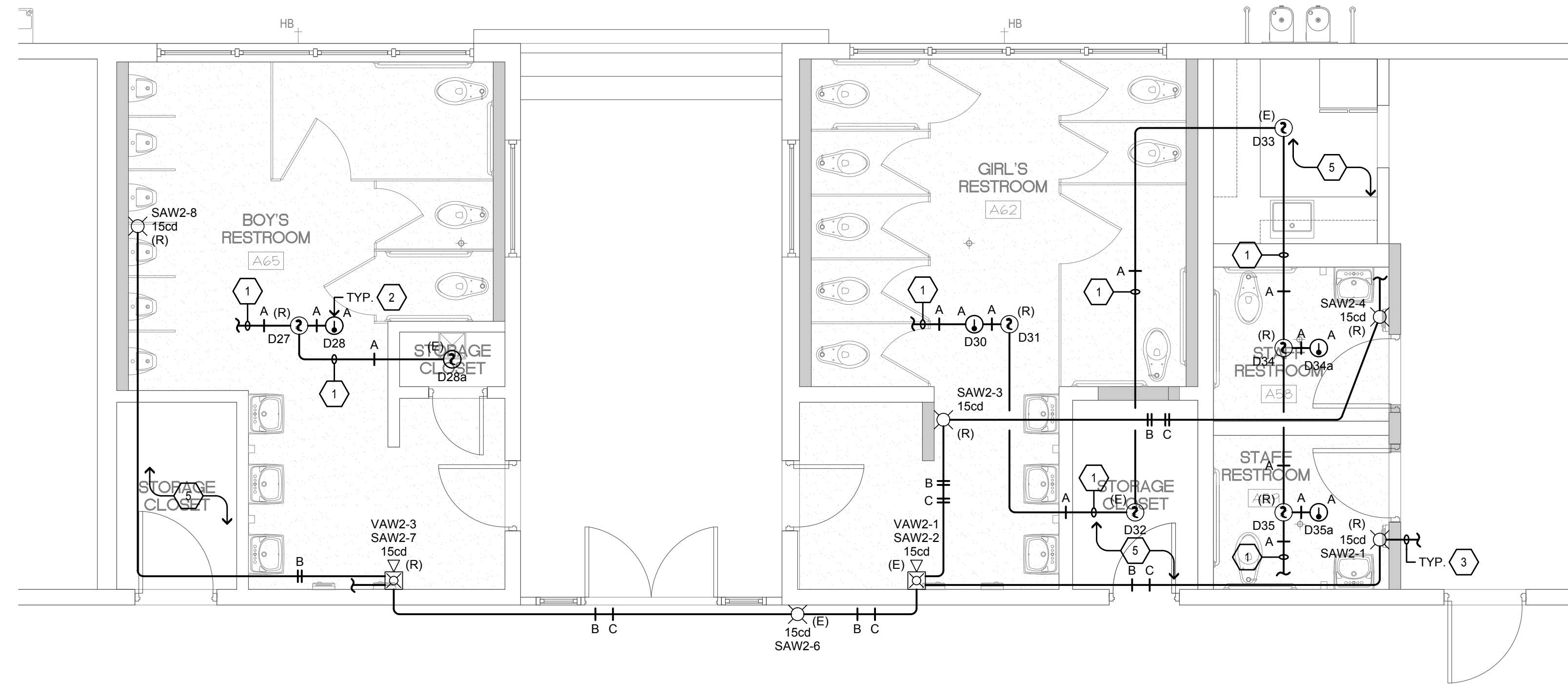
TYPE A = DENOTES INITIATING DETECTION CIRCUITS (SMOKE DETECTOR, HEAT DETECTOR, ETC.) UNLESS OTHERWISE NOTED, PROVIDE (1) #14 TWISTED-UNSHIELDED PAIR. CROSSHATCHES INDICATE THE NUMBER OF PAIRS.

TYPE B = DENOTES VISUAL NOTIFICATION APPLIANCE CIRCUITS (STROBES) UNLESS OTHERWISE NOTED, PROVIDE (1) PAIR OF #12 AWG. CROSSHATCHES INDICATE THE NUMBER OF PAIRS.

TYPE C = DENOTES AUDIO NOTIFICATION APPLIANCE CIRCUITS (SPEAKERS) UNLESS OTHERWISE NOTED, PROVIDE (1) PAIR OF #14 AWG. CROSSHATCHES INDICATE THE NUMBER OF PAIRS.



**2 FIRE ALARM PLAN - SOUTHEAST WING RESTROOM**  
 SCALE: 1/4"=1'-0" NORTH



**1 FIRE ALARM PLAN - NORTHWEST WING RESTROOM**  
 SCALE: 1/4"=1'-0" NORTH

REVISIONS/DATE	BY	DESCRIPTION
01/26/22	CC	1st DSA SUBMITTAL
11/01/22	CC	1st PLAN CHECK SUBMITTAL
01/31/23	CC	DSA BACKCHECK #2
06/30/23	CC	DSA BACKCHECK #3
11/01/23	CC	ADDENDUM #001



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 285 MONTEREY STREET, SUITE B, SALINAS, CA 93901  
 BELLIAG.COM



FIRE ALARM PLAN - RESTROOMS  
 NEW BUS DROP-OFF AND PARKING FOR:  
**SHERWOOD ELEM. SCHOOL**  
 110 SOUTH WOOD STREET  
 SALINAS, CA 93905

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 Project No. 20-398.01  
 60 Garden Court • Suite 210 • Monterey, CA 93940  
 T.831.646.3330 • F.831.646.3336 • www.acemb.com

DATE 11/01/2023  
 SCALE AS NOTED  
 DRAWN CADD  
 JOB 20035  
 SHEET **FA.1**

20035  
**FA.1**  
 SHEETS

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**CALIFORNIA DEPARTMENT OF FORESTRY & FIRE PROTECTION  
OFFICE OF THE STATE FIRE MARSHAL  
FIRE ENGINEERING & INVESTIGATIONS DIVISION  
BUILDING MATERIALS LISTING PROGRAM**

**LISTING SERVICE**

<b>LISTING No.:</b>	7125-1653:0504
<b>CATEGORY:</b>	7125 - FIRE ALARM DEVICES FOR THE HEARING IMPAIRED
<b>LISTEE:</b>	System Sensor, Unincorporated Div of Honeywell Int'l Inc. 3825 Ohio Ave, St. Charles, IL, 60174 Contact: Brant,Lisa (203) 484-6105 (203) 484-7309 Email: lisa.brant@honeywell.com
<b>DESIGN:</b>	System Sensor Indoor 2-wire Models:  SRL, SWL, SGRL, SGWL, SRL-P SWL-P, SRL-SP, SWL-CLR-ALERT and SWL-ALERT Wall Strobes; SCRL, SCWL and SCWL-CLR-ALERT Ceiling Strobes.  Wall Bezel Parts:  BZR-F, BZR-AL, BZR-AG, BZR-EV, BZR-P, BZR-SP, BZR-PG, BZW-F, BZW-AL, BZW-AG, BZW-EV, BZW-P, BZW-SP, BZW-PG, BZGR-F, BZGR-AL, BZGR-AG, BZGR-EV, BZGR-P, BZGR-SP, BZGR-PG, BZGW-F, BZGW-AL, BZGW-AG, BZGW-EV, BZGW-P, BZGW-SP and BZGW-PG,  Ceiling Bezel Parts:  BZRC-F, BZRC-AL, BZRC-AG, BZRC-EV, BZRC-P, BZRC-SP, BZRC-PG, BZWC-F, BZWC-AL, BZWC-AG, BZWC-EV, BZWC-P, BZWC-SP and BZWC-PG.  Color Lens:  LENS-A2, LENS-B2, LENS-G2, LENS-R2, LENS-AC2, LENS-BC2, LENS-GC2 and LENS-RC2.  WallTrim Rings:  TR2 and TR2W  CeilingTrim Rings:  TRC2 and TRC2W.  Wall Surface Mounted Back Boxes:



**CALIFORNIA DEPARTMENT OF FORESTRY & FIRE PROTECTION  
OFFICE OF THE STATE FIRE MARSHAL  
FIRE ENGINEERING & INVESTIGATIONS DIVISION  
BUILDING MATERIALS LISTING PROGRAM**

**LISTING SERVICE**

	<p>SBBRL, SBBGRL, SBBWL and SBBGWL,</p> <p>Ceiling Surface Mounted Back Boxes:</p> <p>SBBCRL and SBBCWL</p> <p>Refer to listee's data sheet for detailed product description and operational considerations.</p>
<b>RATING:</b>	<p>Regulated 12 VDC setting: 8-17.5 VDC</p> <p>Regulated 24 VDC/fwr setting: 16-33 VDC</p>
<b>INSTALLATION:</b>	<p>In accordance with listee's printed installation instructions, NFPA 72, applicable codes &amp; ordinances and in a manner acceptable to the authority having jurisdiction.</p>
<b>MARKING:</b>	<p>Listee's name, model number, electrical rating, and UL label.</p>
<b>APPROVAL:</b>	<p>Listed as two wire strobe units used for synchronous application when used with separately listed compatible fire alarm control units. Suitable for indoor use, vertical wall or horizontal ceiling mounted. *Listed with software code, S05-0048-001 for low temperature compensation. Authority having jurisdiction should be consulted prior to installation. Refer to listee's Installation Instruction Manual for details.</p>
<b>NOTES:</b>	

\*Rev 04-04-19 gt



This listing is based upon technical data submitted by the applicant. OSFM Fire Engineering staff has reviewed the test results and/or other data but does not make an independent verification of any claims. This listing is not an endorsement or recommendation of the item listed. This listing should not be used to verify correct operational requirements or installation criteria. Refer to listee's data sheet, installation instructions and/or other suitable information sources.

**Date Issued: 04/21/2023**

**Listing Expires: 06/30/2024**

Authorized By: **Damon Lam**, Program Coordinator  
Fire Engineering & Investigations Division



# Indoor Selectable-Output Horns, Strobes, and Horn Strobes for Wall Applications

*System Sensor L-Series audible visible notification products are rich with features guaranteed to cut installation times and maximize profits with lower current draw and modern aesthetics.*

## Features

- Updated Modern Aesthetics
- Small profile devices for Horns and Horn Strobes
- Plug-in design with minimal intrusion into the back box
- Tamper-resistant construction
- Automatic selection of 12- or 24-volt operation at 15 and 30 candela
- Field-selectable candela settings on wall units: 15, 30, 75, 95, 110, 135, and 185
- Horn rated at 88+ dBA at 16 volts
- Rotary switch for horn tone and two volume selections
- Mounting plate for all standard and all compact wall units
- Mounting plate shorting spring checks wiring continuity before device installation
- Electrically compatible with legacy SpectrAlert and SpectrAlert Advance devices
- Compatible with MDL3 sync module
- Strobes and Horn Strobes listed for wall mounting only
- Horns listed for wall or ceiling use

## Agency Listings



7125-1653:0504  
7135-1653:0503



**The System Sensor L-Series** offers the most versatile and easy-to-use line of horns, strobes, and horn strobes in the industry with lower current draws and modern aesthetics. With white and red plastic housings, standard and compact devices, and plain, FIRE, and FUEGO-printed devices, System Sensor L-Series can meet virtually any application requirement.

The L-Series line of wall-mount horns, strobes, and horn strobes include a variety of features that increase their application versatility while simplifying installation. All devices feature plug-in designs with minimal intrusion into the back box, making installations fast and foolproof while virtually eliminating costly and time-consuming ground faults.

To further simplify installation and protect devices from construction damage, the L-Series utilizes a universal mounting plate for all models with an onboard shorting spring, so installers can test wiring continuity before the device is installed.

Installers can also easily adapt devices to a suit a wide range of application requirements using field-selectable candela settings, automatic selection of 12- or 24-volt operation, and a rotary switch for horn tones with two volume selections.

# L-Series Specifications

## Architect/Engineer Specifications

### General

L-Series standard horns, strobes, and horn strobes shall mount to a standard 2 x 4 x 1<sup>7</sup>/<sub>8</sub>-inch back box, 4 x 4 x 1<sup>1</sup>/<sub>2</sub>-inch back box, 4-inch octagon back box, or double-gang back box. L-Series compact products shall mount to a single-gang 2 x 4 x 1<sup>7</sup>/<sub>8</sub>-inch back box. A universal mounting plate shall be used for mounting ceiling and wall products for all standard models and a separate universal mounting plate shall be used for mounting wall compact models. The notification appliance circuit wiring shall terminate at the universal mounting plate. Also, L-Series products, when used with the Sync•Circuit™ Module accessory, shall be powered from a non-coded notification appliance circuit output and shall operate on a nominal 12 or 24 volts. When used with the Sync•Circuit Module, 12-volt-rated notification appliance circuit outputs shall operate between 8.5 and 17.5 volts; 24-volt-rated notification appliance circuit outputs shall operate between 16.5 and 33 volts. Indoor L-Series products shall operate between 32 and 120 degrees Fahrenheit from a regulated DC or full-wave rectified unfiltered power supply. Strobes and horn strobes shall have field-selectable candela settings including 15, 30, 75, 95, 110, 135, and 185.

### Strobe

The strobe shall be a System Sensor L-Series Model \_\_\_\_\_ listed to UL 1971 and shall be approved for fire protective service. The strobe shall be wired as a primary-signaling notification appliance and comply with the Americans with Disabilities Act requirements for visible signaling appliances, flashing at 1 Hz over the strobe's entire operating voltage range. The strobe light shall consist of a xenon flash tube and associated lens/reflector system.

### Horn Strobe Combination

The horn strobe shall be a System Sensor L-Series Model \_\_\_\_\_ listed to UL 1971 and UL 464 and shall be approved for fire protective service. The horn strobe shall be wired as a primary-signaling notification appliance and comply with the Americans with Disabilities Act requirements for visible signaling appliances, flashing at 1 Hz over the strobe's entire operating voltage range. The strobe light shall consist of a xenon flash tube and associated lens/reflector system. The horn shall have two audibility options and an option to switch between a temporal three pattern and a non-temporal (continuous) pattern. These options are set by a multiple position switch. The horn on horn strobe models shall operate on a coded or non-coded power supply.

### Synchronization Module

The module shall be a System Sensor Sync•Circuit model MDL3 listed to UL 464 and shall be approved for fire protective service. The module shall synchronize Strobes at 1 Hz and horns at temporal three. Also, while operating the strobes, the module shall silence the horns on horn strobe models over a single pair of wires. The module shall mount to a 4<sup>11</sup>/<sub>16</sub> x 4<sup>11</sup>/<sub>16</sub> x 2<sup>1</sup>/<sub>8</sub>-inch back box. The module shall also control two Style Y (class B) circuits or one Style Z (class A) circuit. The module shall synchronize multiple zones. Daisy chaining two or more synchronization modules together will synchronize all the zones they control. The module shall not operate on a coded power supply.

## Physical/Electrical Specifications

<b>Standard Operating Temperature</b>	32°F to 120°F (0°C to 49°C)
<b>Humidity Range</b>	10 to 93% non-condensing
<b>Strobe Flash Rate</b>	1 flash per second
<b>Nominal Voltage</b>	Regulated 12 DC or regulated 24 DC/FWR <sup>1</sup>
<b>Operating Voltage Range<sup>2</sup></b>	8 to 17.5 V (12 V nominal) or 16 to 33 V (24 V nominal)
<b>Operating Voltage Range MDL3 Sync Module</b>	8.5 to 17.5 V (12 V nominal) or 16.5 to 33 V (24 V nominal)
<b>Input Terminal Wire Gauge</b>	12 to 18 AWG
<b>Wall-Mount Dimensions (including lens)</b>	5.6" L x 4.7" W x 1.91" D (143 mm L x 119 mm W x 49 mm D)
<b>Compact Wall-Mount Dimensions (including lens)</b>	5.26" L x 3.46" W x 1.91" D (133 mm L x 88 mm W x 49 mm D)
<b>Horn Dimensions</b>	5.6" L x 4.7" W x 1.25" D (143 mm L x 119 mm W x 32 mm D)
<b>Compact Horn Dimensions</b>	5.25" L x 3.45" W x 1.25" D (133 mm L x 88 mm W x 32 mm D)

1. Full Wave Rectified (FWR) voltage is a non-regulated, time-varying power source that is used on some power supply and panel outputs.

2. Strobe products will operate at 12 V nominal only for 15 cd and 30 cd.



## UL Current Draw Data

UL Max. Strobe Current Draw (mA RMS)				
Candela Range	Candela	8–17.5 Volts		
		DC	DC	FWR
Candela Range	15	88	43	60
	30	143	63	83
	75	N/A	107	136
	95	N/A	121	155
	110	N/A	148	179
	135	N/A	172	209
	185	N/A	222	257

UL Max. Horn Current Draw (mA RMS)				
Sound Pattern	dB	8–17.5 Volts		
		DC	DC	FWR
Temporal	High	39	44	54
Temporal	Low	28	32	54
Non-Temporal	High	43	47	54
Non-Temporal	Low	29	32	54
3.1 KHz Temporal	High	39	41	54
3.1 KHz Temporal	Low	29	32	54
3.1 KHz Non-Temporal	High	42	43	54
3.1 KHz Non-Temporal	Low	28	29	54
Coded	High	43	47	54
3.1 KHz Coded	High	42	43	54

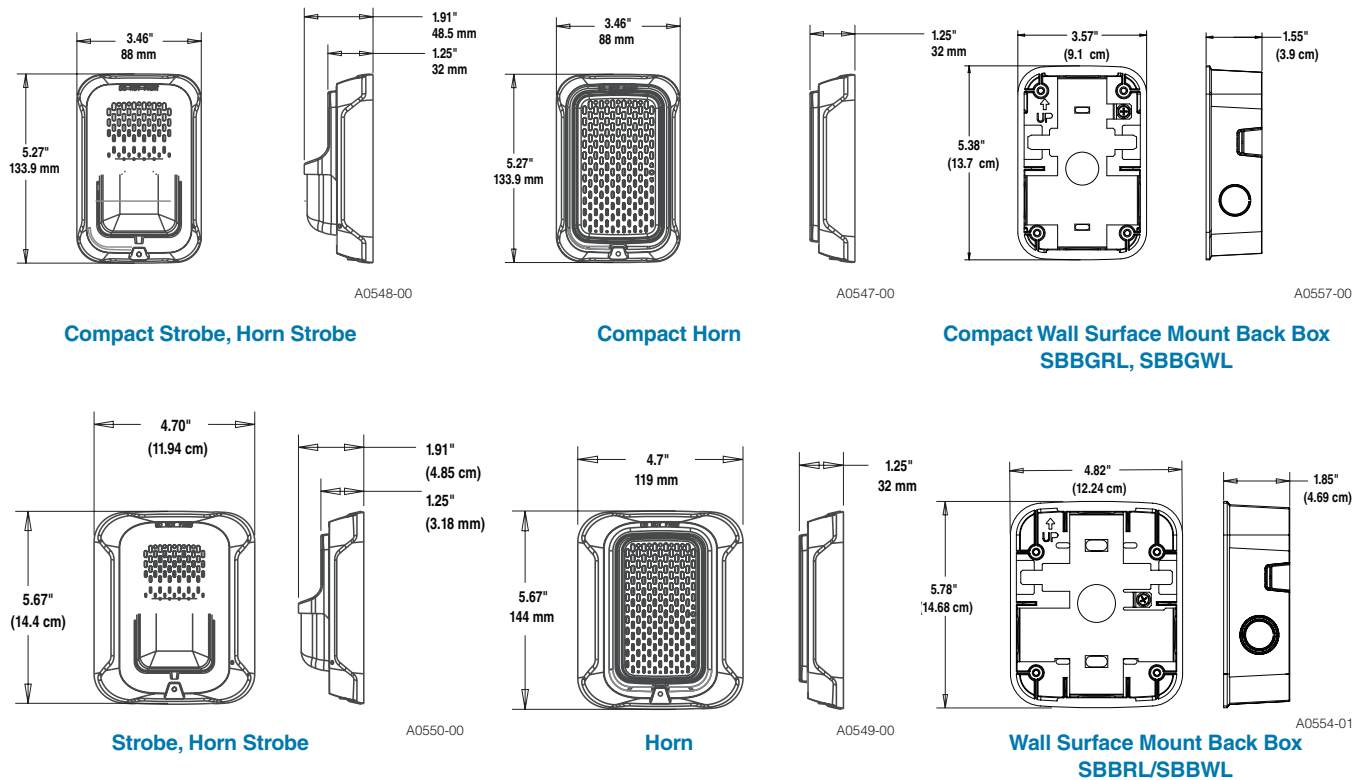
UL Max. Current Draw (mA RMS), Wall Horn Strobe, Candela Range (15–185 cd)										
DC Input	8–17.5 Volts		16–33 Volts							
	15cd	30cd	15cd	30cd	75cd	95cd	110cd	135cd	185cd	
Temporal High	98	158	54	74	121	142	162	196	245	
Temporal Low	93	154	44	65	111	133	157	184	235	
Non-Temporal High	106	166	73	94	139	160	182	211	262	
Non-Temporal Low	93	156	51	71	119	139	162	190	239	
3.1K Temporal High	93	156	53	73	119	140	164	190	242	
3.1K Temporal Low	91	154	45	66	112	133	160	185	235	
3.1K Non-Temporal High	99	162	69	90	135	157	175	208	261	
3.1K Non-Temporal Low	93	156	52	72	119	138	162	192	242	
FWR Input	16–33 Volts									
	15cd	30cd	75cd	95cd	110cd	135cd	185cd			
Temporal High	83	107	156	177	198	234	287			
Temporal Low	68	91	145	165	185	223	271			
Non-Temporal High	111	135	185	207	230	264	316			
Non-Temporal Low	79	104	157	175	197	235	283			
3.1K Temporal High	81	105	155	177	196	234	284			
3.1K Temporal Low	68	90	145	166	186	222	276			
3.1K Non-Temporal High	104	131	177	204	230	264	326			
3.1K Non-Temporal Low	77	102	156	177	199	234	291			

## Horn Tones and Sound Output Data

Horn and Horn Strobe Output (dBA)					
Switch Position	Sound Pattern	dB	8–17.5 Volts	16–33 Volts	FWR
			DC	DC	
1	Temporal	High	84	89	89
2	Temporal	Low	75	83	83
3	Non-Temporal	High	85	90	90
4	Non-Temporal	Low	76	84	84
5	3.1 KHz Temporal	High	83	88	88
6	3.1 KHz Temporal	Low	76	82	82
7	3.1 KHz Non-Temporal	High	84	89	89
8	3.1 KHz Non-Temporal	Low	77	83	83
9*	Coded	High	85	90	90
10*	3.1 KHz Coded	High	84	89	89

\* Settings 9 and 10 are not available on 2-wire horn strobes. Temporal coding must be provided by the NAC. If the NAC voltage is held constant, the horn output remains constantly on.

## L-Series Dimensions



## L-Series Ordering Information

Model	Description
<b>Wall Horn Strobes</b>	
P2RL	2-Wire, Horn Strobe, Red
P2WL	2-Wire, Horn Strobe, White
P2GRL	2-Wire, Compact Horn Strobe, Red
P2GWL	2-Wire, Comp 2 fils act Horn Strobe, White
P2RL-P	2-Wire, Horn Strobe, Red, Plain
P2WL-P	2-Wire, Horn Strobe, White, Plain
P2RL-SP	2-Wire, Horn Strobe, Red, FUEGO
P2WL-SP	2-Wire, Horn Strobe, White, FUEGO
P4RL	4-Wire, Horn Strobe, Red
P4WL	4-Wire, Horn Strobe, White
<b>Wall Strobes</b>	
SRL	Strobe, Red
SWL	Strobe, White
SGRL	Compact Strobe, Red
SGWL	Compact Strobe, White
SRL-P	Strobe, Red, Plain
SWL-P	Strobe, White, Plain
SRL-SP	Strobe, Red, FUEGO
SWL-CLR-ALERT	Strobe, White, ALERT

Model	Description
<b>Horns*</b>	
HRL*	Horn, Red
HWL*	Horn, White
HGRL*	Compact Horn, Red
HGWL*	Compact Horn, White
<b>Accessories</b>	
TR-2	Universal Wall Trim Ring Red
TR-2W	Universal Wall Trim Ring White
SBBRL	Wall Surface Mount Back Box, Red
SBBWL	Wall Surface Mount Back Box, White
SBBGRL	Compact Wall Surface Mount Back Box, Red
SBBGWL	Compact Wall Surface Mount Back Box, White

### Notes:

All -P models have a plain housing (no "FIRE" marking on cover).  
 All -SP models have "FUEGO" marking on cover.  
 All -ALERT models have "ALERT" marking on cover.  
 \*Horn-only models are listed for wall or ceiling use.



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 for current product information, including the latest version of this data sheet.  
 AVDS865-05 • 2/22/2018

End of DSA Addendum #01

## Waterproofing Info per Clarification Item #11

# RedGard® Waterproofing and Crack Prevention Membrane

## 1 Product Name

RedGard® Waterproofing and Crack Prevention Membrane

## 2 Manufacturer

Custom Building Products  
 Technical Services  
 10400 Pioneer Boulevard, Unit 3  
 Santa Fe Springs, CA 90670  
 Customer Support: 800-272-8786  
 Technical Services: 800-282-8786  
 Fax: 800-200-7765  
 Email: [contactus@cbpmail.net](mailto:contactus@cbpmail.net)  
[custombuildingproducts.com](http://custombuildingproducts.com)

## 3 Product Description

RedGard® is a ready-to-use, rapid drying, liquid applied elastomeric, waterproofing and crack prevention membrane that does not require fabric in the field, coves or corners. It can be used for interior or exterior commercial, industrial or residential tile and stone floor & wall installations. Easily applied with roller, trowel or sprayer producing a continuous water and moisture barrier with outstanding adhesion. Bonds directly to metal and drains of PVC, stainless steel and ABS. Reduces concrete moisture vapor transmission to protect moisture sensitive tile, stone and other flooring types. RedGard meets ANSI A118.10-LV/TV requirements for waterproofing membranes and ANSI A118.12 High Performance  $\geq 1/8"$  ( $\geq 3$  mm) for crack isolation membranes. Meets Uniform Plumbing Code specifications for use as a shower pan liner. Listed with IAPMO R & T, File #4244 UPC®, ICC-ES ESR-1413. Meets low perm requirements for steam room vapor barriers per ASTM E-96 Procedure E.

### Key Features

- Ready to use - Quick dry formula
- Fabric not required
- Listed with IAPMO for use as a shower pan liner
- Elastomeric – Isolates cracks up to 1/8" (3mm)
- Meets steam shower requirements for low perm membrane
- Manages concrete moisture vapor emissions up to 12lbs./ 85%RH
- Rated for Extra Heavy Service Conditions per TCNA/ASTM C627
- Flood test immediately after drying

### Uses

- Interior surfaces / exterior concrete and masonry surfaces
- Shower pans, showers, tub surrounds
- Swimming pools, fountains, water features
- Spas, hot tubs, steam showers, steam rooms
- Industrial, commercial and residential applications
- Commercial /residential kitchens, food processing areas
- Exterior balconies and decks over occupied/unoccupied spaces
- Exterior facades



### Suitable Substrates

- Concrete, cement mortar, masonry
- Cement Backerboard
- Post-Tension Concrete\*
- Gypsum-based underlayment (min. 2000 psi compressive strength)
- Lightweight Concrete (min. 2000 psi compressive strength)
- Existing ceramic tile and resilient flooring
- Drywall (interior dry areas)
- Coated Glass Mat Water-Resistant Gypsum Backer Board
- APA/CANPLY rated EGP/Exterior Glue Plywood and OSB/Oriented Strand Board (interior, dry areas only for water protection and crack isolation applications)
- Bonds directly to metals\*
- Floor heating systems\*
- Pipe penetrations/transitions - PVC, ABS, copper, brass and stainless-steel (abrasion required)

\* Deflection requirements and material selection can affect success of the tile assembly. Contact Custom Building Products Technical Services for cautions, limitations and recommendations.

### Composition of Product

RedGard® is a liquid-applied elastomeric waterproofing material that cures to form a monolithic membrane.

### Benefits of Product in the Installation

- Thin/low profile membrane, from 0.015–0.038" (0.4–0.96 mm) thickness after cure. (Thickness is determined by application)
- Easy to use and can be applied by roller, trowel or airless sprayer
- Reduces curing time with quick-dry formula
- Rated for extra heavy-duty service (TCNA/ASTM C627)
- Isolates cracks up to 1/8" (3 mm)
- Reduces efflorescence from substrates
- Meets Uniform Plumbing Code specifications for use as a shower pan liner IAPMO/File #4244 UPC®, ICC-ES ESR-1413
- GreenGuard Gold Certification # 135952-420
- LEED EQc 4.2 Low VOC Emitting Materials/MRc5 Regional Materials
- Non-flammable / No solvents



# CUSTOM®

# RedGard® Waterproofing and Crack Prevention Membrane

## Limitations to the Product

- Ambient and surface temperatures must be above 40°F (4°C) at time of installation and for 72 hours after application.
- Tile over membrane within 72 hours in exterior applications to avoid extended exposure to ultraviolet rays. Alternately, tent area or cover with sun blocking sheeting; or apply a flat application of high performance thinset mortar; or apply a one-time additional coat of liquid prior to 72 hrs. to extend timeframe another 72hrs.
- Existing concrete slabs on-ground relative humidity levels to be  $\leq 85\%$  and pH levels  $\geq 7$  or  $\leq 13$ . \*
- Do not apply over wet surfaces or surfaces subject to hydrostatic pressure.
- Use [Crack Buster® Pro Crack Prevention Mat Underlayment](#) to relocate tile joints over saw cuts/control joints in concrete slabs. See details in Movement Joint Placement section for instructions to accommodate waterproofing over concrete slab joints.\*
- Do not use as an adhesive.
- Some glass tile manufacturers do not recommend use of a membrane behind their glass tile products.
- Do not use pre-mixed adhesives over membrane.
- Do not apply over unstable substrate conditions such as laitance, weak or powdery surfaces.
- Do not use over pressure treated wood surfaces.
- Do not use as a wear surface; the membrane must be covered with tile or other permanent flooring.
- Do not expose membrane to solvent-based materials.
- Compatible with water-based paints only.

\*Contact Technical Services for other conditions not listed and/or additional information.

## Packaging

- 1-gallon (3.78 L) pail
- 3.5-gallon (13.2 L) pail

## 4 Technical Data Applicable Standards

### Material Standards

- Exceeds American National Standards Institute/ANSI A118.10 Load Bearing, Bonded, Waterproofing Membranes for Thin-Set Ceramic Tile and Dimension Stone Installation
- Exceeds American National Standards Institute/ANSI A118.12 Crack Isolation Membranes for Thin-Set Ceramic Tile and Dimension Stone Installation
- ASTM C627 Standard Test Method for Evaluating Ceramic Floor Tile Installation Systems Using the Robinson-Type Floor Tester
- ASTM D638 Standard Test Method for Tensile Properties of Plastics ASTM E-96 Standard Test Methods for Water Vapor Transmission of Materials/Method E
- Conforms to Wisconsin's performance requirements for "safing material" as established by Comm. 84.30 (6)(f) of the Wisconsin Administrative Code; CA Section 01350 and passes CDPH V1.2-2017.
- Uniform Plumbing Code specifications for use as a shower pan liner. Listed with IAPMO R & T, File #4244 UPC®, ICC-ES ESR-1413

## Installation Standards

- American National Standards Institute (ANSI) ANSI A108.01, A108.02, A108.13, A108.17
- Tile Council of North America (TCNA) TCNA Handbook for Ceramic Tile Installation, includes methods EJ171 (movement joints), Methods F125 & F125A for crack isolation and crack transference protection
- Meets/exceeds requirements as listed in Specifications Guide 09 30 00 Tile Installation Manual published by the Terrazzo, Tile & Marble Association of Canada/TTMAC Approvals

## Approvals

RedGard® has tested and complies with Uniform Plumbing Code and International Plumbing Code standards for use as a shower pan liner per IAPMO Research and Testing, Inc., File No. 4244. RedGard® has tested and complies with International Building Code (IBC), International Residential Code (IRC) and International Plumbing Code (IPC) standards for water resistance per ICC Evaluation Service, ESR-1413. RedGard® conforms to "safing material" requirements established by the Wisconsin Administrative Code, Chapter Comm 84.30-6f.

- GREENGUARD Gold Certificate # 135952-420
- LEED EQc4.1 & 4.2 Low VOC Emitting Materials/MRc5 Regional Materials
- ASTM C627 (Robinson) for extra heavy service rating
- ASTM E-96 Method E, meeting requirements of  $< 0.5$  perms
- Los Angeles Department of Building and Safety - per LAMC 98.0502



# CUSTOM®

# RedGard® Waterproofing and Crack Prevention Membrane

## Technical Chart

Property	Test Method	Requirement	Typical Results
Fungus Resistance	A118.10 Section 4.1	No Growth	Pass
Seam Strength	A118.10 Section 4.2	> 8 lbs. per 1" >16 lbs. per 2"	>16 lbs. per 2"
Breaking Strength	A118.10 Section 4.3	> 170 psi	484 psi (34kg/cm <sup>2</sup> )
Dimensional Stability	A118.10 Section 4.4	+/- 0.7%	0.05%
Waterproofness	A118.10 Section 4.5	No Water Penetration	Pass at 25 mils dry
Steam Shower Requirement	ASTM E-96 Method E	< 0.5 perms	0.35 perms at 30 mils dry
Shear Bond Strength to Cement Mortar			
Four Week Shear Strength	A118.10 Section 5.5	> 50 psi	267 psi (18.8 kg/cm <sup>2</sup> )
Shear Strength After Water Immersion	A118.10 Section 5.4	> 50 psi	89 psi (6.3 kg/cm <sup>2</sup> )
<b>System Crack Resistance</b>			
Standard Performance	A118.12 Section 5.4	> 1/16" and < 1/8"	Pass at 30mils dry
High Performance	A118.12 Section 5.4	> 1/8"	Pass at 30mils dry
Point Load	A118.12 Section 5.2	> 1000 lbs.	> 1000 psi
Robinson Test ASTM C627	A118.12 Section 5.3	As Specified	14 Cycles; Extra Heavy
<b>VOC Test Results</b>			
VOC Content	EPA Method 24	SQAQMD Rule 113/CARB SCM 2019 (<100 g/L)	<5 g/L (0% CARB VOC)
VOC Emissions	Complies with CA Section 01350 & CDPH V1.2-2017		Compliant (TVOC=0.5 mg/m <sup>3</sup> or less)

All substrates and surfaces must be structurally sound, stable and suitable for the project's usage including managing weight and deflection from live and dead loads for the lifetime of the structure. Minimum deflection requirements are L/360 for all flooring finishes over concrete and all vertical substrates; L/720 for natural stone over wood framing.

Concrete, cement-based and gypsum-based underlayment and patching compounds must be adequately cured and not exhibit signs of excessive moisture emissions, condensation, efflorescence and hydrostatic conditions/issues beyond the finish product manufacturers' limits or other products within the assembly.

CUSTOM®/CustomTech™ cement-based preparation products may be used in assemblies over concrete with high moisture vapor emission levels provided that other materials such as finish flooring, adhesives or membranes are recommended in these conditions. Consult the manufacturers for their limitations and requirements. Effective moisture mitigation is required when products and finishes in the assembly limit moisture emission levels. **Note:** Moisture mitigation systems manage moisture vapor emissions from the initial concrete placement and when an effective vapor retarder/barrier is placed directly below on-ground slabs. They are not intended to manage excessive water intrusion or negative hydrostatic pressure.

Concrete is to have ≥3000 psi (20.7 MPa) compressive strength and lightweight or gypsum-based underlayment must obtain ≥2000 psi (≥13.8 MPa) compressive strength and tensile strengths ≥200 psi (≥1.4 MPa). Surfaces must be clean, dry and free from contaminants that would prevent or inhibit adhesion bonding. Contaminants and curing compounds should be mechanically removed before installation. Most CUSTOM® products require absorptive surfaces. To assess surface absorption, refer to [ASTM F3191](#) for horizontal areas and place water droplets no higher than 1" (25mm) from the surface (≤1/2" / ≤12mm is preferred). Use a damp sponge to evaluate water absorption on vertical or overhead areas. Cracks in concrete 1/8" (3mm) or wider are generally considered to be structural. Cracks and differential (out of plane) substrate surfaces are to be evaluated by the contractually-obligated project design professional, and remedied prior to applying and installation system. Follow appropriate industry standards and individual product recommendations for treating concrete slab shrinkage cracks and slab joint treatment. Consult [ASTM F710](#) for resilient, carpet tile, carpet and wood flooring; or [ANSI A108](#) and [TCNA](#) - Movement Joints for ceramic tile and natural stone tile.

All surfaces must be flat and smooth (and properly pitched, level or plumb when required) prior to installing finishes. Flatness tolerances vary for finishes as shown below from the required plane, when measured from the high points in the surface. It is the responsibility of the installer to determine the suitability of the substrate and any required preparation work necessary to ensure a successful installation.

## Environmental Consideration

Custom® Building Products is committed to environmental responsibility in both products produced and in manufacturing practices. Use of this product may contribute to LEED® certification.

## Instructions

### General Requirements Installing Finishes Using Products Manufactured by Custom Building Products

**Note:** The recommendations within this document are common industry standards and Custom Building Products' requirements. Additional limitations or specific recommendations may be listed within datasheets of products used in an installation assembly. When those instructions conflict with this document, the most stringent requirements and limitations shall apply.\*

## Industry Tolerances - Flatness and Pitch:

**Ceramic tile <15"** - 1/4 in. in 10 ft. (6 mm in 3 m) and no more than 1/16 in. in 1 ft. (1.6 mm in 0.3 m)

**Ceramic tile ≥15" & Gauged Porcelain Tile/Panels** - 1/8 in. in 10 ft. (3 mm in 3 m) & no more than 1/16 in. in 2 ft. (1.6 mm in 0.6 m)

**Resilient, Carpet Tiles, Carpet** - 3/16 in. (3.9 mm) in 10 ft and 1/32 in. (0.8 mm) in 12 in. (305 mm)

**Hardwood – Concrete** 1/8 - 3/16 in. in 10 ft radius (3 - 3.9 mm in 305 cm radius)

**Hardwood – Plywood** 3/16 in. in 10 ft (3.9 mm in 305 cm) or 1/8 in. in 6 ft (3 mm in 183 cm)

**Pitch** - Exterior and drainage areas to be sloped at a minimum of ¼ in. per linear ft (≥6 mm in 300 mm)

# RedGard® Waterproofing and Crack Prevention Membrane

Substrate and ambient temperatures, relative humidity, UV exposure, excessive wind and inclement weather can affect product performance, drying or curing timeframes during and after installation. Acceptable temperatures for products, mixing water and additives are generally between 50°F - 90°F (10° - 32° C). The area where finishes are installed should be acclimated prior to installation by providing heat or cooling and protection as needed. These conditions are to stay in place during and after installation to allow products to properly cure. Disable radiant heating systems at least 24 hours prior, during and 72hrs after installation. Follow radiant heating system manufacturer's instructions for start-up procedures to gradually introduce heat. Follow industry guidelines for water and moisture exposure to installation assemblies, especially with fill and draining rates in water features.

\* Consult individual product datasheets for recommendations and limitations regarding project conditions. Assembly mockups can determine suitability for these conditions on specific projects. Contact CUSTOM Technical Services for questions and product information: [CONTACT CUSTOM](#) or (800) 282-8786. Instructional videos, bulletins and white papers available at: [custombuildingproducts.com/reference-library.aspx](http://custombuildingproducts.com/reference-library.aspx)

## Industry Association References:

[International Building Code](#) (IBC)  
[International Residential Code](#) (IRC)  
[American Concrete Institute](#) (ACI)  
[International Concrete Repair Institute](#) (ICRI)  
[ASTM International](#) (ASTM)  
[Tile Council of North America](#) (TCNA)  
[American National Standards Institute](#) (ANSI)  
[Resilient Floor Covering Institute](#) (RFCI)  
[National Wood Flooring Association](#) (NWFA)  
[Natural Stone Institute](#) (NSI)  
[National Tile Contractors Association](#) (NTCA)  
[International Masonry Institute](#) (IMI)

## 5 General Surface Prep

**WEAR IMPERVIOUS GLOVES, such as nitrile, and eye protection when handling product.**

All surfaces must be structurally sound, clean, dry and free from contaminants such as grease, oil, dirt, dust, curing compounds, waxes, sealers, efflorescence, or any other foreign matter.

Concrete must be fully cured and have an effective under-slab vapor retarder/barrier. Any existing flooring must be well bonded and stripped of old finish. All substrates should support anticipated live and dead loads in design/performance and meet all international, local, regional or provincial code requirements.

Exterior and wet areas must have proper sloping to drains without divots that would affect drainage. All surfaces must be structurally sound, clean, dry and free from contaminants that would prevent a proper bond. Concrete must be troweled smooth but not burnished (highly polished) and cured for 28 days. Most existing surfaces are to be scarified and flattened and all defects must be repaired. Dormant cracks should be treated in accordance with TCNA F125 or TCNA F125A methods.

### Concrete and Masonry Surfaces

All surfaces must be structurally sound, clean, dry and free from contaminants such as grease, oil, dirt, dust, curing compounds, waxes, sealers, efflorescence, or any other foreign matter. Concrete must be fully cured and have an effective underslab vapor retarder/barrier. Any existing flooring must be well bonded and stripped of old finish.

All substrates should support anticipated live and dead loads in design/performance and meet all international, local, regional or provincial code requirements.

### Bonding to Lightweight Cement and Gypsum Surfaces

Lightweight or gypsum-based materials must obtain a minimum of 2000 psi (13.8 MPa) compressive strength at the recommended cure time. The underlayment must be sufficiently dry and properly cured to the manufacturer's specifications for permanent, non-moisture permeable coverings. Surfaces to be covered must be clean, structurally sound and subject to deflection not to exceed the current ANSI standards. Expansion joints must be installed in accordance with local building codes and ANSI/TCNA guidelines.

Prime all surfaces to receive RedGard® with properly applied manufacturer's sealer or with a primer coat of RedGard®, consisting of 1-part RedGard®, diluted with 4 parts clean, cool water. In a clean pail, mix at low speed (≤300rpm). Apply the diluted mixture using a clean, fine head bristle broom to scrub in the primer solution at a rate of 300 ft/gallon (7.5 M/L). Keep the surface of the substrate wet for at 3-5 minutes during application to ensure adequate and even distribution / penetration of primer coat. Allow primer coat to dry, then apply at least one coat of "undiluted" RedGard® before adhering tile, floor patch or other flooring material applications. See Coverage Section for square foot rates by application.

### RedGard® as a Vapor Barrier

When used as a vapor barrier over concrete, apply one full coat (70 sq. ft. per gallon) where vapor transmission is up to 8 lbs. per 1000 sq. ft. per day and two full coats (70 sq. ft. per gallon each coat) where vapor transmission is up to 12 lbs. per 1000 sq. ft. per day. Refer to ASTM F1869 for more information on Vapor Transmission Testing.





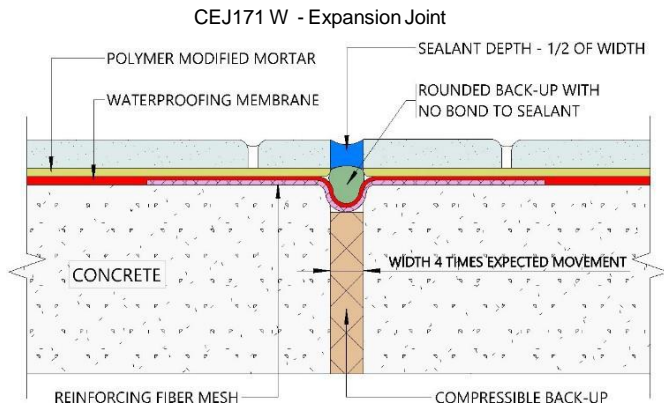
# RedGard® Waterproofing and Crack Prevention Membrane

## Movement Joint Placement

All tile assemblies, including those using Porcelain tiles, expand and contract with temperature changes and/or exposure to moisture and are subject to movement by the underlying structure due to live and dead loads. For these reasons, do not bridge joints with tile when they are designed to experience movement. Carry these types of joints from the substrate through the tile in locations, widths and frequency recommended by the Tile Council of North America (TCNA) or Terrazzo, Tile & Marble Association of Canada (TTMAC).

Follow [ASTM C1193](#) guidelines using [CUSTOM® Commercial100% Silicone Sealant](#) or other suitable sealant applying the sealant as flush as possible with the tile edges.

RedGard® can be used to waterproof movement joints using proper methods incorporating suitable sealant and other industry approved expansion joint materials as illustrated below. Assure that movement joints are free of debris and mortar and install using the appropriate specified method.



See [CUSTOM®](#) details at links below or on our website for reference:

- EJ 171 W – Expansion Joint ([PDF](#)) ([DWG](#))
- CEJ 171 AW – Construction Joint ([PDF](#)) ([DWG](#))
- CEJ 171 BW – Contraction Joint ([PDF](#)) ([DWG](#))
- CEJ 171 CW – Expansion Joint ([PDF](#)) ([DWG](#))
- CEJ 171 DW – Isolation -Expansion Joint ([PDF](#)) ([DWG](#))
- CEJ 171 EW – Expansion Joint, Cement Mortar, Bonded ([PDF](#)) ([DWG](#))
- CEJ 171 FW – Generic Movement Joint ([PDF](#)) ([DWG](#))
- CEJ 171 GW – Perimeter Joint ([PDF](#)) ([DWG](#))
- CEJ 171 HW – Expansion Joint, Mortar, Cleavage Membrane ([PDF](#)) ([DWG](#))
- CEJ 171 IW – Perimeter Joint ([PDF](#)) ([DWG](#))
- CEJ 171 JW – Perimeter Movement Joints ([PDF](#)) ([DWG](#))
- CEJ 171 KW – Movement Joint in Tile and Backerboard ([PDF](#)) ([DWG](#))
- CEJ 171 LW – Generic Movement Joint with Backerboard ([PDF](#)) ([DWG](#))
- CEJ 171 GCW – Generic Movement Joint Concrete / Masonry Wall ([PDF](#)) ([DWG](#))
- CEJ 171 ECW – Expansion Joint – Concrete or Masonry Wall ([PDF](#)) ([DWG](#))
- CEJ 171 NMW – Movement Joint – Reinforced Mortar Bed ([PDF](#)) ([DWG](#))
- CEJ 171 BMW – Movement Joint – Bonded Mortar Bed ([PDF](#)) ([DWG](#))
- CEJ 171 SJBW – Steam Shower/Room Slip Joint–Backerboard Unit ([PDF](#)) ([DWG](#))
- CEJ 171 SJMW – Steam Shower/Room Slip Joint–Mortar Bed ([PDF](#)) ([DWG](#))
- CEJ 171 WPM – Combined Waterproofing Movement Joint Details ([PDF](#))

## Application of Product

For all applications, use RedGard®, a thinset mortar or suitable patch to fill cracks  $\geq 1/8"$  ( $\geq 3$  mm) before applying RedGard® liquid. In high temperatures, windy conditions and when applying over very porous substrates, lightly dampen the surface or use a diluted mixture of RedGard® as a primer coat prior to the normal application. (Primer Coat- *In a separate container, dilute 1-part RedGard® with 4 parts water and mix until well blended. Use either a paint brush, a 3/8" (10 mm) rough- textured, synthetic roller or airless sprayer to apply the primer coat to the entire area to be waterproofed.*) The membrane appearance is pink when wet and dries to a dark red color. It typically takes 1-1.5 hours to turn completely red. After the first coat turns red, inspect the film for integrity and fill any voids or pinholes with additional material and apply second coat.

## RedGard® as a Waterproof Membrane

Coat corners and intersections of the floors and walls, extending  $>2"$  (5 cm) on either side with RedGard® liquid using either a paint brush, a 3/8" (10 mm) rough-textured, synthetic roller or a 3/16"-1/4" (56 mm) V-notch trowel. For extra seam protection, embed [CUSTOM® Waterproofing Reinforcing Tape](#) into the liquid for changes of plane and over gaps  $>1/8"$  ( $>3$ mm). Allow these areas to dry before re-applying.

For general waterproofing, apply RedGard® at a rate of 110 sq. ft per gallon in each coat. NOTE: A minimum of two coats is required when using a roller or brush to assure that continuous coverage is achieved. If using a roller, apply a continuous, even film with overlapping strokes. Apply the second coat at right angles to the first coat for best results. When using a trowel, spread the liquid with the trowel held at a  $>30^\circ$  angle, and then flatten the ridges. Over a solid wall surface, a minimum 15 mils thickness is required above a tub surround or shower floor cove. The membrane appearance is pink when wet and dries to a dark red color. It typically takes 1-1.5 hours to turn completely red. After the first coat turns red, inspect the film for integrity and fill any voids or pinholes with additional material and apply second coat.

To meet the waterproofing requirements of ANSI A118.10 and IAMPO, two coats should be applied at a rate of 80 sq. ft. per gallon each coat. In all cases, the wet film thickness of any coat should not exceed 40 mils.

An airless sprayer may be used for the waterproofing application. The sprayer must produce between 1900 - 2300 psi, with a flow rate of 1.0 - 1.5 GPM and must have a tip orifice size of 0.025 - 0.029. See [CUSTOM Technical Bulletin TB35](#) for instructions.



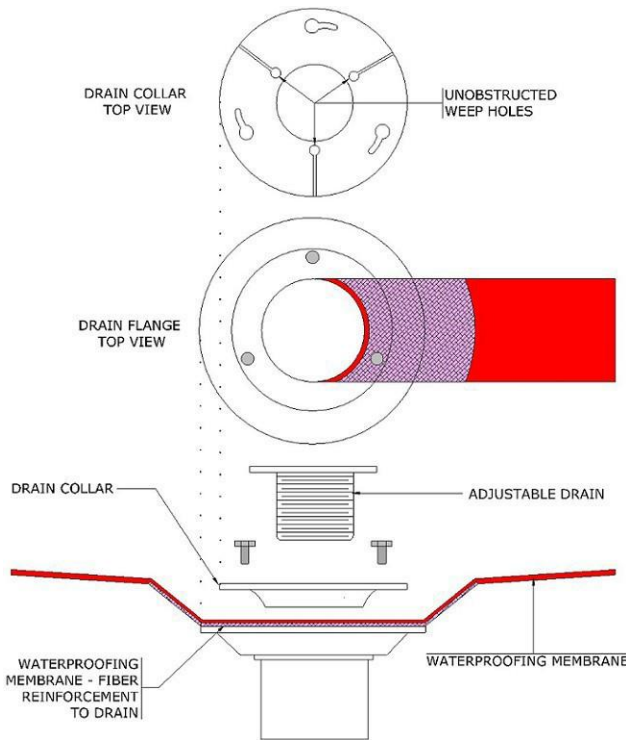
# RedGard® Waterproofing and Crack Prevention Membrane

## RedGard® at Drains

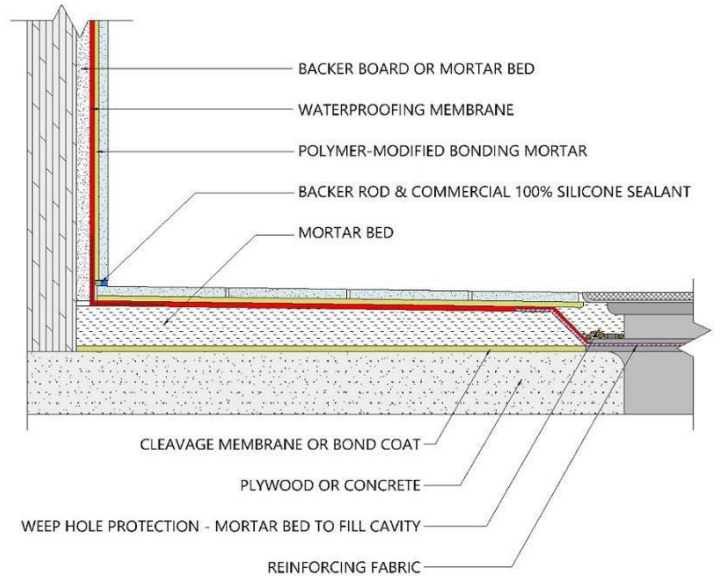
Drains are to be securely fastened to prevent movement. Prior to applying RedGard®, substrate is to be properly sloped toward drain flange. Remove any contaminants on drain flange that might inhibit bonding and protect threaded bolt holes with tape or inserting bolts before applying liquid.

Cut and fit pieces of reinforcing fabric (approximately 3" long.) to contour and encompass drain flange. Apply a coat of RedGard® overlapping transition from substrate or mortar bed to drain flange using a brush. Embed reinforcing fabric into RedGard® liquid. Overlap saturated fabric and use the brush to keep it flat. Continue applying RedGard® to adjacent areas designated to be waterproofed. Allow first application of RedGard® to dry, then recoat all areas to create a monolithic membrane. After final coat is dry, clamp collar to membrane and tighten.

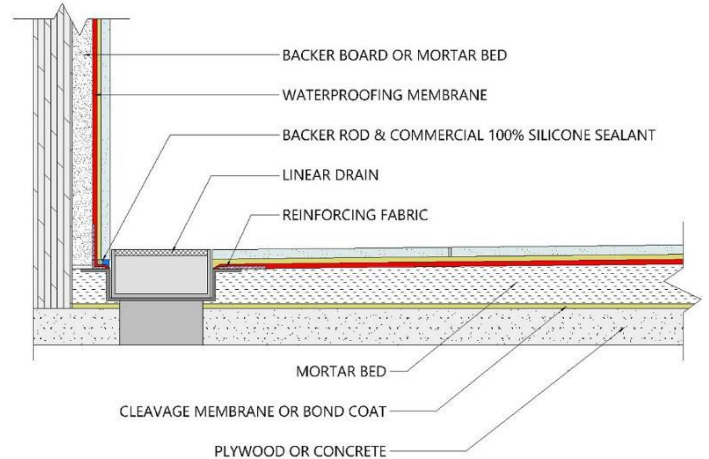
### RedGard® Circular Drain Assembly Detail



## RedGard®, Mortar Bed & Circular Drain (CB421)



## RedGard®, Mortar Bed & Linear Drain



NOTE: Download the illustrated installation details referenced above at the links below: (need to add docs to site and activate links below)

- RedGard® - Circular Drain Assembly Detail ([PDF](#)) ([DWG](#))
- RedGard® - Mortar Bed & Circular Drain (CB421) ([PDF](#)) ([DWG](#))
- RedGard® - Mortar Bed & Linear Drain ([PDF](#)) ([DWG](#))



# RedGard® Waterproofing and Crack Prevention Membrane

## RedGard® as a Crack Prevention Membrane

RedGard® can be applied using either a V-notched trowel, a 3/8" (9.5 mm) rough textured roller, or a bristle brush. Fill non-structural cracks using either RedGard®, thinset mortar or patch. Then apply RedGard liquid at least 6" beyond any tile that will be bridging the crack. When using a notched trowel, immediately use the flat side and flatten the ridges to form a continuous, even coat of material.

For continuous general crack isolation, cover the entire substrate with one coat of RedGard® applied at a rate of 100 sq. ft. per gallon.

To meet specification requirements for ANSI A118.12, apply two coats of RedGard at a rate of 50 sq. ft. per gallon per coat.

NOTE: Cracks  $\geq 1/8$ " or displaying differential movement may be due to structural movement and should be assessed and/or treated by an appropriate structural engineer or consultant.

## Curing of Product

RedGard® is dry when it turns solid red, with no visible pink color. Typically, drying time is 1-1.5 hours for each coat. After the second coat is applied and both coats are fully dry, the application area can be flood tested. Membrane will lighten in color when wet and darken again when dry. This reaction is normal. Drying time can be extended to as much as 12 hours in conditions of very low surface and/or ambient temperatures and when applying in high humidity.

## Protection

Maintain ambient and surface temperatures above 40°F (4°C) at time of installation and for 72 hours after application. Care should be taken to prevent the membrane from becoming contaminated by bond inhibiting materials, solvents or being punctured after application. Cover RedGard with tile, an additional coat of liquid, a flat application of mortar or UV blocking sheeting if not to be tiled within 72 hours when exposed to sunlight. Protect RedGard from water intrusion that could occur behind or beneath the applied membrane if drip edges and/or flashing is not in place at the time of application.

## Tile and Stone Installation

Install tile or stone with a Custom® Building Products polymer-modified mortar that meets ANSI A118.4 or A118.15 standards based on application requirements.

## Cleaning of Equipment

Clean tools and hands with water before the material dries. Clean all spray equipment immediately after use.

## Health Precautions

**IMPORTANT: Read carefully before using. WEAR IMPERVIOUS GLOVES, such as nitrile, and eye protection.**


**WARNING: EYE & SKIN IRRITANT.** May be harmful if swallowed. Do not mix with other chemical products. Avoid contact with eyes and prolonged contact with skin. Do not breathe in vapors. Do not take internally. Immediately wash contaminated body and clothing thoroughly. Use in well-ventilated areas. Wear a NIOSH compliant vapor respirator, especially in poorly ventilated areas.

If eye or skin contact occurs:

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

If inhaled: Remove person to fresh air and keep comfortable for breathing. If swallowed: Rinse mouth. Do NOT induce vomiting. Immediately seek medical advice or attention if symptoms are significant or persist. In Emergency: 1-800-535-5053. **Contains: Styrene-butadiene polymer, limestone, and ammonium hydroxide.** Before handling read Safety Data Sheet at [www.custombuildingproducts.com](http://www.custombuildingproducts.com).

**KEEP OUT OF REACH OF CHILDREN.**

 **WARNING:** This product can expose you to chemicals including crystalline silica, which is known to the State of California to cause cancer. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)

## 6 Availability & Cost

Location	Item Code	Size	Color	Package
USA	LQWAF1	1 gallon (3.78 L)	Pink	Pail
USA	LQWAF3	3.5 gallon (13.2 L)	Pink	Pail
Canada	CLLQWAF1	1 gallon (3.78 L)	Pink	Pail
Canada	CLLQWAF3	3.5 gallon (13.2 L)	Pink	Pail

## 7 Product Warranty

Obtain the applicable **LIMITED PRODUCT WARRANTY** at [www.custombuildingproducts.com/product-warranty](http://www.custombuildingproducts.com/product-warranty) or send a written request to Custom Building Products, Inc., Five Concourse Parkway, Atlanta, GA 30328, USA.

Manufactured under the authority of Custom Building Products, Inc.® 2017 Quikrete International, Inc.

When RedGard® Waterproofing and Crack Prevention Membrane is used as a part of a qualifying full installation system of CUSTOM products, the installation can qualify for up to a lifetime system warranty. CUSTOM will repair and/or replace, at its discretion, the affected area of the system. For more information, find details and limitations to this warranty at [custombuildingproducts.com](http://custombuildingproducts.com).

## 8 Product Maintenance

Properly installed product requires no special maintenance. Do not use as a wear surface.

## 9 Handling & Storage

Protect from freezing. Store in a cool, dry area.

## 10 Technical Services Information

For technical assistance, contact Custom technical services at 800-272- 8786 or visit [custombuildingproducts.com](http://custombuildingproducts.com).



# RedGard® Waterproofing and Crack Prevention Membrane

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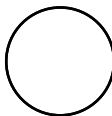
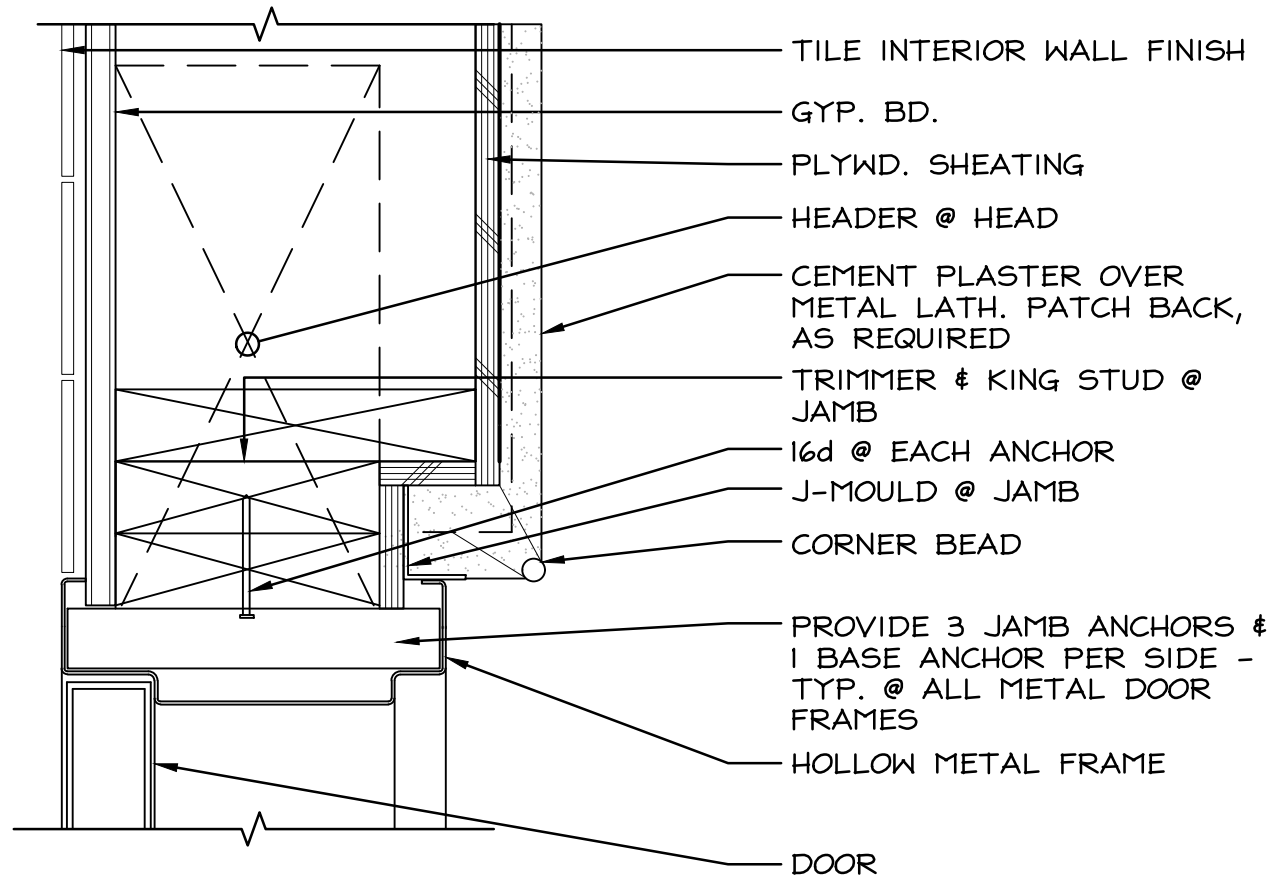
## Coverage

Size	Coverage
RedGard as Crack Prevention Membrane:	
1 Gallon (3.78 L)	100 sq. ft. (9.3 M2)
3.5 Gallon (13.2 L)	350 sq. ft. (32.5 M2)
RedGard as Crack Prevention Membrane meeting ANSI A118.12	
1 Gallon (3.78 L)	25 sq. ft. (2.3 M2)
3.5 Gallon (13.2 L)	88 sq. ft. (8.2 M M2)
RedGard as Waterproof Membrane:	
1 Gallon (3.78 L)	55 sq. ft. (5.1 M2)
3.5 Gallon (13.2 L)	192 sq. ft. (17.8 M2)
RedGard as IAPMO Pan Liner meeting ANSI A118.10:	
1 Gallon (3.78 L)	40 sq. ft. (3.7 M2)
3.5 Gallon (13.2 L)	140 sq. ft. (13 M2)

Chart for estimating purposes. Coverage may vary based on installation practices and jobsite conditions.



# Door Jamb Detail



**HOLLOW METAL FRAME HEAD/JAMB • EXTERIOR WALL**

SCALE: 3" = 1'-0"

A3\_008

Haz. Mat Testing Info.



Built Environment Testing



Report for:

**Nick King**  
**M3 Environmental Consulting, LLC.**  
9821 Blue Larkspur Lane, Ste 100  
Monterey, CA 93940

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Regarding: Eurofins EPK Built Environment Testing, LLC  
Project: 23556.0 SCESD-ACM/Pb Renovation Sampling; Restrooms, Sherwood Elementary School, Salinas  
EML ID: 3451663

Approved by:

Approved Signatory  
Amin Suliman

Dates of Analysis:  
Asbestos PLM: 11-15-2023

Service SOPs: Asbestos PLM (EPA 40CFR App E to Sub E of Part 763 & EPA METHOD 600/R-93-116, SOP EM-AS-S-1267)  
NVLAP Lab Code 200728-0

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All samples were received in acceptable condition unless noted in the Report Comments portion in the body of the report. The results relate only to the samples as received and tested. The results include an inherent uncertainty of measurement associated with estimating percentages by polarized light microscopy. Measurement uncertainty data for sample results with >1% asbestos concentration can be provided when requested.

Eurofins EPK Built Environment Testing, LLC ("the Company"), a member of the Eurofins Built Environment Testing group of companies, shall have no liability to the client or the client's customer with respect to decisions or recommendations made, actions taken or courses of conduct implemented by either the client or the client's customer as a result of or based upon the Test Results. In no event shall the Company be liable to the client with respect to the Test Results except for the Company's own willful misconduct or gross negligence nor shall the Company be liable for incidental or consequential damages or lost profits or revenues to the fullest extent such liability may be disclaimed by law, even if the Company has been advised of the possibility of such damages, lost profits or lost revenues. In no event shall the Company's liability with respect to the Test Results exceed the amount paid to the Company by the client therefor.



Client: M3 Environmental Consulting, LLC.  
 C/O: Nick King  
 Re: 23556.0 SCESD-ACM/Pb Renovation Sampling;  
 Restrooms, Sherwood Elementary School, Salinas

Date of Sampling: 11-10-2023  
 Date of Receipt: 11-13-2023  
 Date of Report: 11-15-2023

**ASBESTOS PLM REPORT**

<b>Total Samples Submitted:</b>	34
<b>Total Samples Analyzed:</b>	34
<b>Total Samples with Layer Asbestos Content &gt; 1%:</b>	3

**Location: 1A, Main boys RR, red epoxy flooring**

Lab ID-Version‡: 16816178-1

Sample Layers	Asbestos Content
Red Flooring	ND
<b>Sample Composite Homogeneity:</b> Good	

**Location: 1B, Back boys RR, red epoxy flooring**

Lab ID-Version‡: 16816180-1

Sample Layers	Asbestos Content
Red Flooring	ND
<b>Sample Composite Homogeneity:</b> Good	

**Location: 2A, Main boys RR, off-white 4x4 CWT with grout**

Lab ID-Version‡: 16816181-1

Sample Layers	Asbestos Content
White Ceramic Tile	ND
Gray Grout	ND
<b>Sample Composite Homogeneity:</b> Moderate	

**Location: 2B, Main girls RR, off-white 4x4 CWT with grout**

Lab ID-Version‡: 16816182-1

Sample Layers	Asbestos Content
White Ceramic Tile	ND
Gray Grout	ND
<b>Sample Composite Homogeneity:</b> Moderate	

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Inhomogeneous samples are separated into homogeneous subsamples and analyzed individually. ND means no fibers were detected. When detected, the minimum detection and reporting limit is less than 1% unless point counting is performed. Floor tile samples may contain large amounts of interference material and it is recommended that the sample be analyzed by gravimetric point count analysis to lower the detection limit and to aid in asbestos identification.

‡ A "Version" indicated by "-x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".

Client: M3 Environmental Consulting, LLC.  
 C/O: Nick King  
 Re: 23556.0 SCE SD-ACM/Pb Renovation Sampling;  
 Restrooms, Sherwood Elementary School, Salinas

Date of Sampling: 11-10-2023  
 Date of Receipt: 11-13-2023  
 Date of Report: 11-15-2023

**ASBESTOS PLM REPORT**

**Location: 3A, Main boys RR, tan 3x5 CWT with grout**

Lab ID-Version‡: 16816183-1

Sample Layers	Asbestos Content
White Ceramic Tile	ND
<b>Sample Composite Homogeneity:</b> Good	

**Comments:** No grout present in sample

**Location: 3B, Main girls RR, tan 3x5 CWT with grout**

Lab ID-Version‡: 16816184-1

Sample Layers	Asbestos Content
White Ceramic Tile	ND
<b>Sample Composite Homogeneity:</b> Good	

**Comments:** No grout present in sample

**Location: 4A, Main boys janitor closet, hexagonal CDT mosaic with grout**

Lab ID-Version‡: 16816185-1

Sample Layers	Asbestos Content
White Ceramic Tile	ND
Gray Grout	ND
<b>Sample Composite Homogeneity:</b> Moderate	

**Location: 4B, Main boys janitor closet, hexagonal CDT mosaic with grout**

Lab ID-Version‡: 16816186-1

Sample Layers	Asbestos Content
White Ceramic Tile	ND
Gray Grout	ND
<b>Sample Composite Homogeneity:</b> Moderate	

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 C/O: Nick King  
 Re: 23556.0 SCESD-ACM/Pb Renovation Sampling;  
 Restrooms, Sherwood Elementary School, Salinas

Date of Sampling: 11-10-2023  
 Date of Receipt: 11-13-2023  
 Date of Report: 11-15-2023

**ASBESTOS PLM REPORT**

**Location: 5A, Main boys RR, off-white wainscoating**

Lab ID-Version‡: 16816187-1

Sample Layers	Asbestos Content
White Semi-Fibrous Material	ND
White Adhesive	ND
<b>Composite Non-Asbestos Content:</b>	20% Cellulose
<b>Sample Composite Homogeneity:</b>	Moderate

**Location: 5B, Back boys RR, off-white wainscoating**

Lab ID-Version‡: 16816188-1

Sample Layers	Asbestos Content
White Semi-Fibrous Material	ND
White Adhesive	ND
<b>Composite Non-Asbestos Content:</b>	20% Cellulose
<b>Sample Composite Homogeneity:</b>	Moderate

**Location: 6A, Main boys RR, plaster walls**

Lab ID-Version‡: 16816189-1

Sample Layers	Asbestos Content
White Plaster with Paint	ND
<b>Sample Composite Homogeneity:</b>	Moderate

**Location: 6B, Main girls RR, plaster walls**

Lab ID-Version‡: 16816190-1

Sample Layers	Asbestos Content
White Plaster with Paint	ND
<b>Sample Composite Homogeneity:</b>	Moderate

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 C/O: Nick King  
 Re: 23556.0 SCE SD-ACM/Pb Renovation Sampling;  
 Restrooms, Sherwood Elementary School, Salinas

Date of Sampling: 11-10-2023  
 Date of Receipt: 11-13-2023  
 Date of Report: 11-15-2023

**ASBESTOS PLM REPORT**

**Location: 6C, Back boys RR, plaster walls**

Lab ID-Version‡: 16816191-1

Sample Layers	Asbestos Content
White Plaster with Paint	ND
<b>Sample Composite Homogeneity:</b> Moderate	

**Location: 7A, Back boys RR, tan 4x4 CWT with grout**

Lab ID-Version‡: 16816192-1

Sample Layers	Asbestos Content
White Ceramic Tile	ND
Gray Grout	ND
<b>Sample Composite Homogeneity:</b> Moderate	

**Comments:**

**Location: 7B, Back boys RR, tan 4x4 CWT with grout**

Lab ID-Version‡: 16816193-1

Sample Layers	Asbestos Content
White Ceramic Tile	ND
Gray Grout	ND
<b>Sample Composite Homogeneity:</b> Moderate	

**Location: 8A, Back boys RR, red 4x4 CFT/CWT with grout**

Lab ID-Version‡: 16816194-1

Sample Layers	Asbestos Content
Red Ceramic Tile	ND
Gray Grout	ND
<b>Sample Composite Homogeneity:</b> Moderate	

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Client: M3 Environmental Consulting, LLC.  
 C/O: Nick King  
 Re: 23556.0 SCESD-ACM/Pb Renovation Sampling;  
 Restrooms, Sherwood Elementary School, Salinas

Date of Sampling: 11-10-2023  
 Date of Receipt: 11-13-2023  
 Date of Report: 11-15-2023

**ASBESTOS PLM REPORT**

**Location: 8B, Back boys RR, red 4x4 CFT/CWT with grout**

Lab ID-Version‡: 16816195-1

Sample Layers	Asbestos Content
Red Ceramic Tile	ND
Gray Grout	ND
<b>Sample Composite Homogeneity:</b>	Moderate

**Location: 9A, Staff RR's, blue RSF with mastic**

Lab ID-Version‡: 16816196-1

Sample Layers	Asbestos Content
Blue Linoleum	ND
Yellow Mastic	ND
Tan Fibrous Material	ND
<b>Composite Non-Asbestos Content:</b>	15% Cellulose
<b>Sample Composite Homogeneity:</b>	Moderate

**Location: 9B, Staff RR's, blue RSF with mastic**

Lab ID-Version‡: 16816197-1

Sample Layers	Asbestos Content
Blue Linoleum	ND
Yellow Mastic	ND
Tan Fibrous Material	ND
<b>Composite Non-Asbestos Content:</b>	15% Cellulose
<b>Sample Composite Homogeneity:</b>	Moderate

**Location: 10A, Staff RR's, 4" blue VBB with mastic,**

Lab ID-Version‡: 16816198-1

Sample Layers	Asbestos Content
Blue Base Coat	ND
Yellow Mastic	ND
Tan Fibrous Material	ND
<b>Composite Non-Asbestos Content:</b>	5% Cellulose
<b>Sample Composite Homogeneity:</b>	Moderate

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Inhomogeneous samples are separated into homogeneous subsamples and analyzed individually. ND means no fibers were detected. When detected, the minimum detection and reporting limit is less than 1% unless point counting is performed. Floor tile samples may contain large amounts of interference material and it is recommended that the sample be analyzed by gravimetric point count analysis to lower the detection limit and to aid in asbestos identification.

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 Re: 23556.0 SCESD-ACM/Pb Renovation Sampling;  
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Date of Sampling: 11-10-2023  
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 Date of Report: 11-15-2023

**ASBESTOS PLM REPORT**

**Location: 10B, Staff RR's, 4" blue VBB with mastic**

Lab ID-Version‡: 16816199-1

Sample Layers	Asbestos Content
Blue Base Coat	ND
Yellow Mastic	ND
Tan Fibrous Material	ND
<b>Composite Non-Asbestos Content:</b>	5% Cellulose
<b>Sample Composite Homogeneity:</b>	Moderate

**Location: 11A, Staff RR's, WB/JC under spray texture**

Lab ID-Version‡: 16816200-1

Sample Layers	Asbestos Content
Off-White Joint Compound	2% Chrysotile
White Drywall with Brown Paper	ND
<b>Composite Asbestos Fibrous Content:</b>	< 1% Asbestos
<b>Composite Non-Asbestos Content:</b>	10% Cellulose
<b>Sample Composite Homogeneity:</b>	Moderate

**Comments:** Composite asbestos content provided is only for Drywall/Joint compound. Composite content provided for this analysis has been performed by following the NESHAP guidelines.

**Location: 11B, Staff RR's, WB/JC under spray texture**

Lab ID-Version‡: 16816201-1

Sample Layers	Asbestos Content
White Joint Compound with Paint	ND
Pink Woven Material	ND
<b>Composite Non-Asbestos Content:</b>	10% Glass Fibers
<b>Sample Composite Homogeneity:</b>	Moderate

**Comments:** No drywall present in sample

**Location: 12A, Staff RR's, spray texturing over WB/JC**

Lab ID-Version‡: 16816202-1

Sample Layers	Asbestos Content
Off-White Texture with Paint	2% Chrysotile
<b>Sample Composite Homogeneity:</b>	Moderate

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Client: M3 Environmental Consulting, LLC.  
 C/O: Nick King  
 Re: 23556.0 SCESD-ACM/Pb Renovation Sampling;  
 Restrooms, Sherwood Elementary School, Salinas

Date of Sampling: 11-10-2023  
 Date of Receipt: 11-13-2023  
 Date of Report: 11-15-2023

**ASBESTOS PLM REPORT**

**Location: 12B, Staff RR's, spray texturing over WB/JC**

Lab ID-Version‡: 16816203-1

Sample Layers	Asbestos Content
White Drywall with Brown Paper with Paint	ND
<b>Composite Non-Asbestos Content:</b>	10% Cellulose
<b>Sample Composite Homogeneity:</b>	Moderate

**Comments:** No texture present in sample

**Location: 12C, Staff RR's, spray texturing over WB/JC**

Lab ID-Version‡: 16816204-1

Sample Layers	Asbestos Content
Off-White Texture with Paint	2% Chrysotile
White Drywall with Brown Paper	ND
<b>Composite Non-Asbestos Content:</b>	10% Cellulose
<b>Sample Composite Homogeneity:</b>	Moderate

**Location: 13A, Staff RR hall, tan with brown stipple, 12"x12" VFT with mastic**

Lab ID-Version‡: 16816205-1

Sample Layers	Asbestos Content
White Floor Tile	ND
Black Mastic	ND
White Compound	ND
<b>Sample Composite Homogeneity:</b>	Moderate

**Location: 13B, Staff RR hall, tan with brown stipple, 12"x12" VFT with mastic**

Lab ID-Version‡: 16816206-1

Sample Layers	Asbestos Content
White Floor Tile	ND
Black Mastic	ND
White Compound	ND
<b>Sample Composite Homogeneity:</b>	Moderate

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Inhomogeneous samples are separated into homogeneous subsamples and analyzed individually. ND means no fibers were detected. When detected, the minimum detection and reporting limit is less than 1% unless point counting is performed. Floor tile samples may contain large amounts of interference material and it is recommended that the sample be analyzed by gravimetric point count analysis to lower the detection limit and to aid in asbestos identification.

‡ A "Version" indicated by "-x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".

Client: M3 Environmental Consulting, LLC.  
 C/O: Nick King  
 Re: 23556.0 SCESD-ACM/Pb Renovation Sampling;  
 Restrooms, Sherwood Elementary School, Salinas

Date of Sampling: 11-10-2023  
 Date of Receipt: 11-13-2023  
 Date of Report: 11-15-2023

**ASBESTOS PLM REPORT**

**Location: 14A, Staff RR hall, 4" brown VBB with mastic**

Lab ID-Version‡: 16816207-1

Sample Layers	Asbestos Content
Brown Base Coat	ND
Yellow Mastic	ND
<b>Sample Composite Homogeneity:</b> Moderate	

**Location: 14B, Staff RR hall, 4" brown VBB with mastic**

Lab ID-Version‡: 16816208-1

Sample Layers	Asbestos Content
Brown Base Coat	ND
Yellow Mastic	ND
<b>Sample Composite Homogeneity:</b> Moderate	

**Location: 15A, Storage, 12x12" gray VFT with mastic**

Lab ID-Version‡: 16816209-1

Sample Layers	Asbestos Content
Gray Floor Tile	ND
Yellow Mastic	ND
<b>Sample Composite Homogeneity:</b> Moderate	

**Location: 15B, Storage, 12x12" gray VFT with mastic**

Lab ID-Version‡: 16816210-1

Sample Layers	Asbestos Content
Gray Floor Tile	ND
Yellow Mastic	ND
<b>Sample Composite Homogeneity:</b> Moderate	

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Inhomogeneous samples are separated into homogeneous subsamples and analyzed individually. ND means no fibers were detected. When detected, the minimum detection and reporting limit is less than 1% unless point counting is performed. Floor tile samples may contain large amounts of interference material and it is recommended that the sample be analyzed by gravimetric point count analysis to lower the detection limit and to aid in asbestos identification.

‡ A "Version" indicated by "-x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".



Client: M3 Environmental Consulting, LLC.  
 C/O: Nick King  
 Re: 23556.0 SCESD-ACM/Pb Renovation Sampling;  
 Restrooms, Sherwood Elementary School, Salinas

Date of Sampling: 11-10-2023  
 Date of Receipt: 11-13-2023  
 Date of Report: 11-15-2023

**ASBESTOS PLM REPORT**

**Location: 16A, Storage, 12x12" ACT**

Lab ID-Version‡: 16816211-1

Sample Layers	Asbestos Content
Tan Ceiling Tile with White Surface	ND
<b>Composite Non-Asbestos Content:</b>	95% Cellulose
<b>Sample Composite Homogeneity:</b>	Good

**Location: 16B, Storage, 12x12" ACT**

Lab ID-Version‡: 16816212-1

Sample Layers	Asbestos Content
Tan Ceiling Tile with White Surface	ND
<b>Composite Non-Asbestos Content:</b>	95% Cellulose
<b>Sample Composite Homogeneity:</b>	Good

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Inhomogeneous samples are separated into homogeneous subsamples and analyzed individually. ND means no fibers were detected. When detected, the minimum detection and reporting limit is less than 1% unless point counting is performed. Floor tile samples may contain large amounts of interference material and it is recommended that the sample be analyzed by gravimetric point count analysis to lower the detection limit and to aid in asbestos identification.

‡ A "Version" indicated by "-x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".

**CHAIN OF CUSTODY**  
 EMC Labs, Inc.  
 9830 S. 51<sup>ST</sup> St., Ste B-109  
 Phoenix, AZ 85044  
 (800) 362-3373 Fax (480) 893-1726

**LAB#:** L100551  
**TAT:** 3 Day  
**Rec'd:** 11/13/2023

**COMPANY NAME:** M3 Environmental Cons.  
9821 Blue Larkspur Ln, Ste 100  
Monterey, CA 93940  
**CONTACT:**  
**Phone/Cell:** (831) 649-4623 / (707) 953-4739  
**Email:** nick@m3environmental.com

**BILL TO:** (If Different Location)  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

**Now Accepting:** VISA – MASTERCARD Price Quoted: \$ \_\_\_\_\_ / Sample \$ \_\_\_\_\_ / Layers

**COMPLETE ITEMS 1-4: (Failure to complete any items may cause a delay in processing or analyzing your samples)**

**1. TURNAROUND TIME:** [4hr rush] [8hr rush] [1-Day] [2-Day] [3-Day] [5-Day] [6-10 Day]

\*\*\*\*Prior confirmation of turnaround time is required

\*\*\*\*Additional charges for rush analysis (please call marketing department for pricing details)

\*\*\*\*Laboratory analysis may be subject to delay if credit terms are not met

**2. TYPE OF ANALYSIS:** [Bulk-PLM] [Air-PCM] [Lead] [Point Count] [Fungi: AOC, W-C, Bulk, Swab, Tape]

**3. DISPOSAL INSTRUCTIONS:** [Dispose of samples at EMC] / [Return samples to me at my expense]

*(If you do not indicate preference, EMC will dispose of samples 60 days from analysis.)*

**4. Project Name:** SCESD - Restroom Renovation, Sherwood ES, Salinas - ACM/Pb Sampling  
**P.O. Number:** \_\_\_\_\_ **Project Number:** 23556.0 - Task 1

EMC SAMPLE #	CLIENT SAMPLE #	DATE & TIME SAMPLED	LOCATION/MATERIAL TYPE	Samples Accepted Yes / No	AIR SAMPLE INFO / COMMENTS		
					ON	OFF	FLOW RATE
1	L1			(Y) N			
12	L17			(Y) N			
	PLEASE SEE THE ATTACHED LOG			Y N			
	ACM			Y N			
	Pb	17		Y N			
				Y N			
				Y N			
				Y N			
				Y N			
				Y N			
				Y N			
				Y N			
				Y N			

**SPECIAL INSTRUCTIONS:** \_\_\_\_\_  
**Sample Collector:** (Print) Nicholas King (Signature) [Signature]  
**Relinquished by:** [Signature] Date/Time: 11/12/23 Received by: [Signature] Date/Time: 11/13/23  
**Relinquished by:** [Signature] Date/Time: 11/13/23 Received by: [Signature] Date/Time: 11/13/23  
**Relinquished by:** \_\_\_\_\_ Date/Time \_\_\_\_\_ Received by: \_\_\_\_\_ Date/Time: \_\_\_\_\_

\*\* In the event of any dispute between the above parties for these services or otherwise, parties agree that jurisdiction and venue will be in Phoenix, Arizona and prevailing party will be entitled to attorney's fees and court costs.



# Lead Bulk Sampling Log

Client: SCESD  
 Project Name: ACM/Pb Renovation  
 Site Address: Sherwood Elementary, Salinas  
 Building: \_\_\_\_\_  
 Project No.: 23556.0 - Task 1

Sample Date: 11/10/23  
 Inspector: Nick King  
 CDPH No. 9404

Sample No.	Color	Substrate	Building Component	Sample Location (interior/exterior)	Notes/Result
1	TAN	PLASTER	WALL	INTERIOR	
2	OR	CERAMIC	WALL		
3	TAN	CERAMIC	WALL		3XS
4	TAN	CERAMIC	FLOOR		
5	OR	WOOD	DOOR FRAME		
6	OR	WOOD	DOOR		
7	Brown	WOOD	DOOR FRAME		
8	BLUE	WOOD	DOOR		
9	BLUE	WOOD	DOOR FRAME		
10	RED	EPOXY	FLOORING		
11	LT BROWN	<del>WOOD</del> DOOR FRAME	DOOR <del>FRAME</del>		
12	TAN	WOLC	WALL		



# Lead Bulk Sampling Log

Client: SCESD  
 Project Name: ACM/Pb Renovation  
 Site Address: Sherwood Elementary, Salinas  
 Building: \_\_\_\_\_  
 Project No.: 23556.0 - Task 1

Sample Date: 11/10/23  
 Inspector: Nick King  
 CDPH No. 9404

Sample No.	Color	Substrate	Building Component	Sample Location (interior/exterior)	Notes/Result
13	TAN	<del>TAPE</del> CERAMIC	WALL	INTERIOR	4x4
14	RED	CERAMIC	FLOOR/CAVING		
15	OR	METAL	MIRROR FRAME		
16	BROWN	<del>WOOD</del> WOOD	WINDOW FRAME		
17	BLUE	WOOD	WINDOW FRAME		

# CHAIN OF CUSTODY

EMC Labs, Inc.  
 9830 S. 51<sup>ST</sup> St., Ste B-109  
 Phoenix, AZ 85044  
 (800) 362-3373 Fax (480) 893-1726

LAB#: L100552  
 TAT: 3 Day  
 Rec'd: 11/13/2023

COMPANY NAME: M3 Environmental Cons.  
9821 Blue Larkspur Ln, Ste 100  
Monterey, CA 93940

CONTACT:  
 Phone/Cell: (831) 649-4623 / (707) 953-4739  
 Email: nick@m3environmental.com

BILL TO: \_\_\_\_\_  
 (If Different Location)  
 \_\_\_\_\_  
 \_\_\_\_\_

Now Accepting: **VISA - MASTERCARD** Price Quoted: \$ \_\_\_\_\_ / Sample \$ \_\_\_\_\_ / Layers

**COMPLETE ITEMS 1-4:** (Failure to complete any items may cause a delay in processing or analyzing your samples)

- TURNAROUND TIME:** [4hr rush] [8hr rush] [1-Day] [2-Day] [3-Day] [5-Day] [6-10 Day]
  - TYPE OF ANALYSIS:** [Bulk-PLM] [Air-PCM] [Lead] [Point Count] [Fungi: AOC, W-C, Bulk, Swab, Tape]
  - DISPOSAL INSTRUCTIONS:** [Dispose of samples at EMC] / [Return samples to me at my expense]
- (If you do not indicate preference, EMC will dispose of samples 60 days from analysis.)*

4. Project Name: SCESD - Restroom Renovation, Sherwood ES, Salinas - ACM/Pb Sampling

P.O. Number: \_\_\_\_\_ Project Number: 23556.0 - Task 1

EMC SAMPLE #	CLIENT SAMPLE #	DATE & TIME SAMPLED	LOCATION/MATERIAL TYPE	Samples Accepted Yes / No	AIR SAMPLE INFO / COMMENTS		
					ON	OFF	FLOW RATE
1	L2			(Y) N			
5	L14			(Y) N			
PLEASE SEE THE ATTACHED LOG				Y N			
ACM				Y N			
Pb				Y N			
17				Y N			
				Y N			
				Y N			
				Y N			
				Y N			
				Y N			
				Y N			
				Y N			
				Y N			

SPECIAL INSTRUCTIONS:

Sample Collector: (Print) Nicholas King (Signature) [Signature]

Relinquished by: [Signature] Date/Time: 11/12/23 2:16:00 Received by: [Signature] Date/Time: 11/13/23 9:00

Relinquished by: [Signature] Date/Time: 11/13/23 Received by: [Signature] Date/Time: 11/13/23

Relinquished by: \_\_\_\_\_ Date/Time: \_\_\_\_\_ Received by: \_\_\_\_\_ Date/Time: \_\_\_\_\_

\*\* In the event of any dispute between the above parties for these services or otherwise, parties agree that jurisdiction and venue will be in Phoenix, Arizona and prevailing party will be entitled to attorney's fees and court costs.



# Lead Bulk Sampling Log

Client: SCESD  
 Project Name: ACMPb Renovation  
 Site Address: Sherwood Elementary, Salinas  
 Building: \_\_\_\_\_  
 Project No.: 23556.0 - Task 1

Sample Date: 11/10/23  
 Inspector: Nick King  
 CDPH No. 9404

Sample No.	Color	Substrate	Building Component	Sample Location (interior/exterior)	Notes/Result
L1	TAN	PLASTER	WALL	INTERIOR	
L2	OR	CERAMIC	WALL		
L3	TAN	CERAMIC	WALL		3x5
L4	TAN	CERAMIC	FLOOR		
L5	OR	WOOD	DOOR FRAME		
L6	OR	WOOD	DOOR		
L7	BROWN	WOOD	DOOR FRAME		
L8	BROWN	WOOD	DOOR		
L9	BLUE	WOOD	DOOR FRAME		
L10	RED	EPOXY	FLOORING		
L11	LC BROWN	<del>WOOD</del> DOOR FRAME	DOOR FRAME		
L12	TAN	WOL	WALL		



# Lead Bulk Sampling Log

Client: SCESD  
 Project Name: ACM/Pb Renovation  
 Site Address: Sherwood Elementary, Salinas  
 Building: \_\_\_\_\_  
 Project No.: 23556.0 - Task 1

Sample Date: 11/10/23  
 Inspector: Nick King  
 CDPH No. 9404

Sample No.	Color	Substrate	Building Component	Sample Location (Interior/Exterior)	Notes/Result
4	TAN	<del>WALL</del> CERAMIC	WALL	INTERIOR	404
5	RED	CERAMIC	FLOOR/CAVING		
L15	OR	METAL	MIRROR FRAME		
L16	BROWN	<del>WOOD</del> WOOD	WINDOW FRAME		
L17	BLUE	WOOD	WINDOW FRAME		







ENVIRONMENTAL CONSULTING LLC

Asbestos Bulk Sampling Log



003451663

Client: SCESD  
 Project Name: ACM/Pb Renovation  
 Site Address: Sherwood Elementary, Salinas  
 Building: \_\_\_\_\_  
 Project No. 23556.0 Task \_\_\_\_\_

Sample Date: 11/10/2023  
 Inspector: Nick King  
 CAC No. \_\_\_\_\_  
 SST No. 18 - 6276

Sample No.	Building / Floor	Area No.	Area Name	Material Description	Estimated Quantity	Notes		
						SF	LF	EA
1A			MW Boys RM	Red Epoxy Emulsion ↓				
1B			Boys RM	↓				
2A			MW Boys RM	OPPOSITE 4th CRT ↓				
2B			MW Boys RM	↓				
3A			MW Boys RM	TAN 3x5 CRT ↓				
3B			MW Boys RM	↓				
4A			MW Boys RM	HEAVYWEIGHT CRT MESSAGE ↓				
4B			MW Boys RM	↓				
5A			MW Boys RM	OPPOSITE MESSAGING ↓				
5B			MW Boys RM	↓				

AGP - Acoustic Ceiling Panel  
 ACT - Acoustic Ceiling Tile  
 CT - Ceramic Tile  
 CFT - Ceramic Floor Tile  
 VB - Vapor Barrier  
 CMU - Concrete Masonry Unit  
 CWT - Ceramic Wall Tile  
 FG - Fiberglass Insulation  
 HVAC - Heating Ventilation Air Condition  
 BUR - Built Up Roofing  
 LC - Levelling Compound  
 O.D - Outside Diameter  
 PM - Penetration Mastic  
 VSF - Vinyl Sheet Flooring  
 SAACM - Spray Applied Acoustic Ceiling Material  
 SU - Sunk Undercoating  
 TSI - Thermal System Insulation  
 VBB - Vinyl Baseboard  
 VFT - Vinyl Floor Tile  
 WB/JC - Wall Board/Joist Compound  
 (Composite)  
 T&G - Tar & Gravel Roofing  
 RSF - Resilient Sheet Flooring

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ENVIRONMENTAL CONSULTING LLC

# Asbestos Bulk Sampling Log



003451663

Client: SCESD

Project Name: ACM/Pb Renovation

Site Address: Sherwood Elementary, Salinas

Building: \_\_\_\_\_

Project No. 23556.0

Task \_\_\_\_\_

Sample Date: 11/10/2023

Inspector: Nick King

CAC No. \_\_\_\_\_

SST No. 18 - 6276

Sample No.	Building / Floor	Area No.	Area Name	Material Description	Estimated Quantity			Notes
					SF	LF	EA	
6a			main 3x5 rtr	Plaster walls				
6b			main 3x5 rtr					
7a			main 3x5 rtr					
7b			main 3x5 rtr					
7c			main 3x5 rtr					
7d			main 3x5 rtr					
8a			main 3x5 rtr					
8b			main 3x5 rtr					
9a			main 3x5 rtr					
9b			main 3x5 rtr					
10a			main 3x5 rtr					

ACP - Acoustic Ceiling Panel  
 ACT - Acoustic Ceiling Tile  
 CT - Ceramic Tile  
 CFT - Ceramic Floor Tile  
 VB - Vapor Barrier  
 CMU - Concrete Masonry Unit  
 CWT - Ceramic Wall Tile  
 FG - Fiberglass Insulation  
 HVAC - Heating Ventilation Air Condition  
 BUR - Built Up Roofing  
 LC - Leveling Compound  
 O.D - Outside Diameter  
 PM - Penetration Mastic  
 VSF - Vinyl Sheet Flooring  
 SAAACM - Spray Applied Acoustic Ceiling Material  
 SU - Sink Undercoating  
 TSI - Thermal System Insulation  
 VBB - Vinyl Baseboard  
 VFT - Vinyl Floor Tile  
 WBJC - Wall Board/Joint Compound  
 (Composite)  
 T&G - Tar & Gravel Roofing  
 RSF - Resilient Sheet Flooring

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ENVIRONMENTAL CONSULTING LLC

### Asbestos Bulk Sampling Log



003451663

Client: SCESD

Project Name: ACM/Pb Renovation

Site Address: Sherwood Elementary, Salinas

Building: \_\_\_\_\_

Project No. 23556.0

Task \_\_\_\_\_

Sample Date: 11/10/2023

Inspector: Nick King

CAC No. \_\_\_\_\_

SST No. 18-6276

Sample No.	Building / Floor	Area No.	Area Name	Material Description	Estimated Quantity			Notes
					SF	LF	EA	
10B			STAFF RE'S	4" BLUE VBS w/ MASTIC				
11A				WIPOL UNDER SPRAY TERRAZZO				
11B								
12A				SPRAY TERRAZZO OVER WIPOL				
12B								
12C								
13A			STAFF RE (TABLE)	TRAY w/ BRNWD STRIKE				
13B				12" x 12" VIT w/ MASTIC				
14A				4" BRNWD VBS w/ MASTIC				
14B								

ACP - Acoustic Ceiling Panel

ACT - Acoustic Ceiling Tile

CT - Ceramic Tile

CFT - Ceramic Floor Tile

VB - Vapor Barrier

CMU - Concrete Masonry Unit

CWT - Ceramic Wall Tile

FG - Fiberglass Insulation

HVAC - Heating Ventilation Air Condition

BUR - Built Up Roofing

LC - Leveling Compound

O.D - Outside Diameter

PM - Penetration Mastic

VSF - Vinyl Sheet Flooring

SAACM - Spray Applied Acoustic Ceiling Material

SU - Sink Undercoating

TSI - Thermal System Insulation

VBB - Vinyl Baseboard

VFT - Vinyl Floor Tile

WB/JC - Wall Board/Joint Compound (Composite)

T&G - Tar & Gravel Roofing

RSF - Resilient Sheet Flooring

Page \_\_\_\_\_ of \_\_\_\_\_

5-11/13/22 AS





9830 South 51<sup>st</sup> Street, Suite B-109 / PHOENIX, ARIZONA 85044 / 480-940-5294 or 800-362-3373 / FAX 480-893-1726  
[emclab@emclabs.com](mailto:emclab@emclabs.com)

**LEAD (Pb) IN PAINT CHIP SAMPLES**  
 EMC SOP METHOD #L01/1 EPA SW-846 METHOD 7420

<b>EMC LAB #:</b>	L100551	<b>DATE RECEIVED:</b>	11/13/2023
<b>CLIENT:</b>	M3 Environmental Consultants	<b>REPORT DATE:</b>	11/16/2023
		<b>DATE OF ANALYSIS:</b>	11/15/2023
<b>CLIENT ADDRESS:</b>	9821 Blue Larkspur Ln, Ste 100 Monterey, CA 93940	<b>P.O. NO.:</b>	
<b>PROJECT NAME:</b>	SCESD-Restroom Renovation, Sherwood ES, Salinas- ACM/Pb Sampling	<b>PROJECT NO.:</b> 23556.0 – Task 1	


EMC # L100551-	SAMPLE DATE /23	CLIENT SAMPLE #	DESCRIPTION	REPORTING LIMIT (%Pb by weight)	%Pb BY WEIGHT
1	11/10	L1	Tan-Plaster-Wall-Interior	0.010	0.099
2	11/10	L5	OW-Wood-Door Frame-Interior	0.013	1.55
3	11/10	L6	OW-Wood-Door-Interior	0.22	5.20 ^
4	11/10	L7	Brown-Wood-Door Frame-Interior	0.19	4.09 ^
5	11/10	L8	Blue-Wood-Door-Interior	0.017	BRL
6	11/10	L9	Blue-Wood-Door Frame-Interior	0.019	1.81

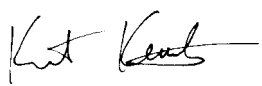
^ = Dilution Factor Changed \* = Excessive Substrate May Bias Sample Results BRL = Below Reportable Limits # = Very Small Amount Of Sample Submitted, May Affect Result

This report applies to the standards or procedures identified and to the samples tested only. The test results are not necessarily indicative or representative of the qualities of the lot from which the sample was taken or of apparently identical or similar products, nor do they represent an ongoing quality assurance program unless so noted. Unless otherwise noted, all quality control analyses for the samples noted above were within acceptable limits.

Where it is noted that a sample with excessive substrate was submitted for laboratory analysis, such analysis may be biased. The lead content of such sample may, in actuality, be greater than reported. EMC makes no warranty, express or implied, as to the accuracy of the analysis of samples noted to have been submitted with excessive substrate. Resampling is recommended in such situations to verify original laboratory results. EMC Labs, Inc. (ID 101586) is accredited by the AIHA Laboratory Accreditation Programs, LLC (AIHA-LAP, LLC) in the Environmental Lead accreditation program(s) for Paint, Settled Dust by Wipe, Soil and Airborne Dust Fields of Testing as documented by the Scope of Accreditation Certificate and associated Scope. AIHA-LAP, LLC accreditation complies with the ISO/IEC Standard 17025:2017 requirements. The customer provides the Project number, name, address, sampling date, identification, and description. EMC Labs, Inc. is an EPA Recognized Testing Lab.

These reports are for the exclusive use of the addressed client and are rendered upon the condition that they will not be reproduced wholly or in part for advertising or other purposes over our signature or in connection with our name without special written permission. Samples not destroyed in testing are retained a maximum of sixty (60) days.

**ANALYST:**   
 \_\_\_\_\_  
 Jason Thompson

**QA COORDINATOR:**   
 \_\_\_\_\_  
 Kurt Kettler



9830 South 51<sup>st</sup> Street, Suite B-109 / PHOENIX, ARIZONA 85044 / 480-940-5294 or 800-362-3373 / FAX 480-893-1726  
[emclab@emclabs.com](mailto:emclab@emclabs.com)

**LEAD (Pb) IN PAINT CHIP SAMPLES**  
 EMC SOP METHOD #L01/1 EPA SW-846 METHOD 7420


<b>EMC LAB #:</b> L100551		<b>DATE RECEIVED:</b> 11/13/2023			
<b>CLIENT:</b> M3 Environmental Consultants		<b>REPORT DATE:</b> 11/16/2023			
		<b>DATE OF ANALYSIS:</b> 11/15/2023			
<b>CLIENT ADDRESS:</b> 9821 Blue Larkspur Ln, Ste 100 Monterey, CA 93940		<b>P.O. NO.:</b>			
<b>PROJECT NAME:</b> SCESD-Restroom Renovation, Sherwood ES, Salinas-ACM/Pb Sampling		<b>PROJECT NO.:</b> 23556.0 – Task 1			
EMC # L100551-	SAMPLE DATE /23	CLIENT SAMPLE #	DESCRIPTION	REPORTING LIMIT (%Pb by weight)	%Pb BY WEIGHT
7	11/10	L10	Red-Epoxy-Flooring-Interior	0.017	0.045
8	11/10	L11	Lt Brown-Wood-Door-Interior	0.024	2.11
9	11/10	L12	Tan-WB/JC-Wall-Interior	0.010	0.175
10	11/10	L15	OW-Metal-Mirror Frame-Interior	0.022	0.150
11	11/10	L16	Brown-Wood-Window Frame-Interior	0.041	0.189
12	11/10	L17	Blue-Wood-Window Frame-Interior	0.010	0.043

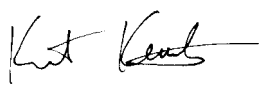
^ = Dilution Factor Changed \* = Excessive Substrate May Bias Sample Results BRL = Below Reportable Limits # = Very Small Amount Of Sample Submitted, May Affect Result

This report applies to the standards or procedures identified and to the samples tested only. The test results are not necessarily indicative or representative of the qualities of the lot from which the sample was taken or of apparently identical or similar products, nor do they represent an ongoing quality assurance program unless so noted. Unless otherwise noted, all quality control analyses for the samples noted above were within acceptable limits.

Where it is noted that a sample with excessive substrate was submitted for laboratory analysis, such analysis may be biased. The lead content of such sample may, in actuality, be greater than reported. EMC makes no warranty, express or implied, as to the accuracy of the analysis of samples noted to have been submitted with excessive substrate. Resampling is recommended in such situations to verify original laboratory results. EMC Labs, Inc. (ID 101586) is accredited by the AIHA Laboratory Accreditation Programs, LLC (AIHA-LAP, LLC) in the Environmental Lead accreditation program(s) for Paint, Settled Dust by Wipe, Soil and Airborne Dust Fields of Testing as documented by the Scope of Accreditation Certificate and associated Scope. AIHA-LAP, LLC accreditation complies with the ISO/IEC Standard 17025:2017 requirements. The customer provides the Project number, name, address, sampling date, identification, and description. EMC Labs, Inc. is an EPA Recognized Testing Lab.

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**ANALYST:**   
 \_\_\_\_\_  
 Jason Thompson

**QA COORDINATOR:**   
 \_\_\_\_\_  
 Kurt Kettler



9830 South 51<sup>st</sup> Street, Suite B-109 / PHOENIX, ARIZONA 85044 / 480-940-5294 or 800-362-3373 / FAX 480-893-1726  
[emclab@emclabs.com](mailto:emclab@emclabs.com)

**LEAD (Pb) IN PAINT CHIP SAMPLES**  
 EMC SOP METHOD #L01/1      EPA SW-846 METHOD 7420

<b>EMC LAB #:</b>	L100552	<b>DATE RECEIVED:</b>	11/13/2023
<b>CLIENT:</b>	M3 Environmental Consultants	<b>REPORT DATE:</b>	11/16/2023
		<b>DATE OF ANALYSIS:</b>	11/15/2023
<b>CLIENT ADDRESS:</b>	9821 Blue Larkspur Ln, Ste 100 Monterey, CA 93940	<b>P.O. NO.:</b>	
<b>PROJECT NAME:</b>	SCESD-Restroom Renovation-Sherwood ES,Salinas-ACM/Pb Sampling	<b>PROJECT NO.:</b>	23556.0 – Task 1

EMC # L100552-	SAMPLE DATE /23	CLIENT SAMPLE #	DESCRIPTION	REPORTING LIMIT IN PPM	Pb IN PPM
1	11/10	L2	OW-Ceramic-Wall-Interior	100	285
2	11/10	L3	Tan-Ceramic-Wall-Interior-3x5	100	646
3	11/10	L4	Tan-Ceramic-Floor-Interior	100	150
4	11/10	L13	Tan-Ceramic-Wall-Interior-4x4	100	BRL
5	11/10	L14	Red-Ceramic-Floor/Ceiling-Interior	100	BRL

^ = Dilution Factor Changed      Ins. = Insufficient Sample for Analysis      \* = Excessive Substrate May Bias Sample Results      BRL = Below Reportable Limits  
 # = Very Small Amount Of Sample Submitted, May Affect Result

This report applies to the standards or procedures identified and to the samples tested only. The test results are not necessarily indicative or representative of the qualities of the lot from which the sample was taken or of apparently identical or similar products, nor do they represent an ongoing quality assurance program unless so noted. Unless otherwise noted, all quality control analyses for the samples noted above were within acceptable limits.

Where it is noted that a sample with excessive substrate was submitted for laboratory analysis, such analysis may be biased. The lead content of such sample may, in actuality, be greater than reported. EMC makes no warranty, express or implied, as to the accuracy of the analysis of samples noted to have been submitted with excessive substrate. Resampling is recommended in such situations to verify original laboratory results. EMC Labs, Inc. (ID 101586) is accredited by the AIHA Laboratory Accreditation Programs, LLC (AIHA-LAP, LLC) in the Environmental Lead accreditation program(s) for Paint, Settled Dust by Wipe, Soil and Airborne Dust Fields of Testing as documented by the Scope of Accreditation Certificate and associated Scope. AIHA-LAP, LLC accreditation complies with the ISO/IEC Standard 17025:2017 requirements. The customer provides the Project number, name, address, sampling date, identification, and description. EMC Labs, Inc. is an EPA Recognized Testing Lab..

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**ANALYST:**   
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 Jason Thompson

**QA COORDINATOR:**   
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 Kurt Kettler

End of Addendum.