





[illegible]

# SYMBOLS

	GRID LINE INDICATION
	FACE OF CENTER OF
	ROOM IDENTIFICATION
CLASSROOM	→ ROOM NAME
101	→ ROOM NUMBER
	FURNITURE / EQUIPMENT IDENTIFICATION
CHSM	→ FURNITURE / EQUIPMENT CODE
10 441 3.2.2	KEYNOTE & DRAWING NOTE IDENTIFICATION
	REFERENCE KEYNOTE – SEE SCHEDULE ON SHEETS & SPECIFICATIONS
D.013	DEMOLITION DRAWING NOTE – SEE SCHEDULE ON SHEETS
.013	DRAWING NOTE – SEE SCHEDULE ON SHEETS
	ELEVATION
A7.1	→ ELEVATION VIEW NUMBER
2	→ ELEVATION SHEET
	SECTION
A	→ SECTION NUMBER
A5.1	→ SECTION SHEET
	DETAIL
23	→ DETAIL NUMBER
A6.1	→ DETAIL SHEET
	DOOR NUMBER
101A	→ BY ROOM NUMBER – REFER TO DOOR SCHEDULE
	WALL TYPE INDICATOR
01	→ REFER TO WALL SCHEDULE
	WINDOW TYPE INDICATOR
W1	→ REFER TO WINDOW SCHEDULE
	WORK POINT
	(CONTROL, OR DATUM POINT)
	FINISH IDENTIFICATION
P1	→ FINISH CODE
	DIMENSIONS
0'-6"	→ STANDARD DIMENSION – FACE OF STUD WHERE APPLIED TO WALLS OR PARTITIONS, U.N.O.
	→ FINISH TO FINISH DIMENSION – FACE OF GYP., OR DIMENSIONAL FINISH WHERE APPLIED TO WALLS OR PARTITIONS, U.N.O.
'	→ FEET
"	→ INCHES
%	→ PERCENT
&	→ AND
+/-	→ PLUS OR MINUS
#	→ NUMBER
@	→ AT
>	→ GREATER THAN
<	→ LESS THAN
Ø	→ DIAMETER
°	→ DEGREE
∠	→ ANGLE
℄	→ CENTERLINE
ℙ	→ PROPERTY LINE
ℱ	→ FLOOR LINE

# DSA STATEMENT OF CONFIRMANCE

## Statement of General Confirmation

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

(Application No. 02-112165 File No. 34-10)

☒ The drawings or sheets listed on the cover or index sheet  
This drawing, page, of specifications/calculations

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

- 1) design intent and appears to meet the appropriate requirements of Title 24, California Code of Regulations and the project specifications prepared by the contractor,
- 2) coordination with my plans and specifications as allowable for incorporation into my construction of the project.

The Statement of General Confirmation shall not be construed as accepting my fee rights, duties, and responsibilities under Sections 17392 and 811.38 of the Education Code and Sections 4-336, 4-343 and 4-344 of Title 1, Part 1, (Title 24, Part 1, Section 337-37.03)

I certify that: ☒ All drawings or sheets listed on the cover or index sheet  
☐ This drawing or page

☒ s/n are in general confirmation and  
have been coordinated

☐ s/n are in general confirmation and  
have been coordinated

<p>Signature _____ Date <u>6/9/2003</u></p> <p>Architect or Engineer designated to be in general responsible charge</p> <p><i>[Signature]</i></p>	<p>Signature _____ Date _____</p> <p>Architect or Engineer designated responsibility for this portion of the work.</p>
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Print Name _____ (Required Print)	Print Name _____
--------------------------------------	------------------

License Number _____	Expiration Date _____
License Number _____	Expiration Date _____

DEFERRED APPROVALS	
1. NONE.	

CENTER JOINT UNIFIED SCHOOL DISTRICT  
OAK HILL ELEMENTARY SCHOOL MODERNIZATION  
3909 NORTH LOOP BLVD, ANTELOPE, CA 95843  
DSA 02-121265 / FILE 34-10 / PTN 73973-55

# DISTRICT GENERAL NOTES

**STANDARD RENOVATION COVER SHEET NOTES**  
**PROVIDED BY CENTER JONET UNIFIED SCHOOL DISTRICT**

1. This project site is an occupied school campus. The educational program takes precedence over construction activities. All construction activities shall be contained within fenced or barricaded areas in accordance with project specification and schedule requirements. Certain construction activities that generate disruptive noise, odors, dust and debris must be scheduled when the campus is not occupied.
2. This is an existing facility renovation project. All work shown, noted or detailed is new, except where indicated as existing or as existing to remain.
3. Photos if shown in this set of drawings do not preclude the pre-bid site visit requirements of the bidder. The Contractor shall be responsible for appropriate site visits to confirm existing field conditions prior to bidding.
4. Contractor shall field verify all dimensions and existing conditions at the site and shall report any discrepancies in writing to the Construction Manager by the means of a Request for Information (RFI) or as part of the applicable shop drawings or submittals.
5. Specific items noted to be verified if field verified are required to be verified prior to ordering materials or proceeding with the work.
6. Contractor is responsible for all incidental work necessary to complete the installation of new work. This includes, but is not limited to, the removal and/or reinstallation of all existing items, or portions of the existing construction whether shown or not.
7. The existing facility has asbestos containing material in various locations. Any part of the work requiring removal of asbestos containing material shall be performed in accordance with the Asbestos Abatement Specifications Exhibit "C" of the Project Manual.
8. The existing facility has lead containing material in various locations. Any part of the work requiring removal of lead containing material shall be performed in accordance with the Lead Abatement Specifications Exhibit "D" of the Project Manual.
9. The existing facility has PCB Ballast and Fluorescent Tube Materials in various locations. Any part of the work requiring removal of PCB Ballast and Fluorescent Tube Materials shall be performed in accordance with the PCB Ballast and Fluorescent Tube Materials Abatement Specifications Exhibit "E" of the Project Manual.
10. Contractor is responsible for protection, modification and re-installation of all existing rooftop piping, conduit, wire and equipment during the roof removal/replacement operations. This includes, but is not limited to, extensions of existing conduit and piping penetrations to accommodate new roofing requirements, replacement or modification of existing sleepers, blocking and supports. Provide new conduit, conductors, unistrut, etc. as necessary to accommodate new roofing requirements.
11. Prior to starting work on each phase, the Contractor shall request the Construction Manager to schedule a team meeting with all subcontractors, the Project Inspector, and the designated District representative to survey existing equipment operations. The objective is to determine the operability of all existing mechanical equipment, fire alarm system, telephone system, intrusion alarm system, intercom system and any other devices and equipment that are to be remain after phase completion. The Construction Manager shall prepare a written report documenting team field investigation and noting any existing items that are determined if operational or non-functional. Prior to occupancy another survey will be conducted with same team to determine if any item has been damaged or made inoperable. In the event that anything has been damaged, the General Contractor will be required to correct problem with an approved, qualified, technician.
12. Prior to the start of each phase the Construction Manager shall schedule the District to identify and tag all exposures. Any District personnel shall remove any wiring identified as abandoned. Any wiring identified to remain shall be protected against damage during construction and inspected for damage at phase completion.
13. Prior to site mobilization, the General Contractor, the Construction Manager and Project Inspector are to meet on site and photo document the existing conditions of the Contractor's staging area and landscaped areas where trenching will be occurring or where vehicle traffic is anticipated. Also test and record soil for proper operation. At project completion all areas must be restored to original condition including but not limited to installing sod at damaged turf areas, replacing damaged plantings, repairing damaged underground utilities, patching damaged asphalt paving, re-striping paving and replacement of damaged concrete. The General Contractor, the Construction Manager and Project Inspector shall meet on site at project completion and review all site conditions and operation of irrigation system.
14. The General Contractor is responsible to have emergency shut-off procedures in place prior to start of construction. The General Contractor and all Subcontractors shall familiarize themselves with all shut-off valve locations on site and have proper tools readily available to operate valves.

## APPLICABLE CODES

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### **BUILDING CODES AND STANDARDS**

2022 CALIFORNIA ADMINISTRATIVE CODE (CALIFORNIA CODE OF REGULATIONS, TITLE 24, PART 1)

2022 CALIFORNIA BUILDING CODE, VOLUMES 1 & 2 (CALIFORNIA CODE OF REGULATIONS, TITLE 24, PART 2)  
(BASED ON 2021 INTERNATIONAL BUILDING CODE)

2022 CALIFORNIA ELECTRICAL CODE (CALIFORNIA CODE OF REGULATIONS, TITLE 24, PART 3)  
(BASED ON 2020 NATIONAL ELECTRICAL CODE)

2022 CALIFORNIA MECHANICAL CODE (CALIFORNIA CODE OF REGULATIONS, TITLE 24, PART 4)  
(BASED ON 2021 IAPMO UNIFORM MECHANICAL CODE)

2022 CALIFORNIA PLUMBING CODE (CALIFORNIA CODE OF REGULATIONS, TITLE 24, PART 5)  
(BASED ON 2021 IAPMO UNIFORM PLUMBING CODE)

2022 CALIFORNIA ENERGY CODE (CALIFORNIA CODE OF REGULATIONS, TITLE 24, PART 6)

2022 CALIFORNIA FIRE CODE (CALIFORNIA CODE OF REGULATIONS, TITLE 24, PART 9)  
(BASED ON 2021 INTERNATIONAL FIRE CODE)

2022 CALIFORNIA REFERENCE STANDARDS CODE  
(CALIFORNIA CODE OF REGULATIONS, TITLE 24, PART 12)

TITLE 19, CCR, PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS

2022 CALIFORNIA GREEN BUILDING STANDARDS CODE (CALGreen)  
(CALIFORNIA CODE OF REGULATIONS, TITLE 24, PART 11)

### **NATURAL REFERENCE STANDARDS**

AISC 341-10 MANUAL OF STEEL CONSTRUCTION

AF&PA NDS-2022 NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION

ACI-318-14 BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE

NFPA 10, 2022 EDITION, STANDARD FOR PORTABLE FIRE EXTINGUISHERS

NFPA 13, 2022 EDITION, INSTALLATION OF AUTOMATIC SPRINKLER SYSTEMS  
(W/ AMENDMENTS PER CBC CH 35)

NFPA 14, 2022 EDITION, INSTALLATION OF STANDPIPE, PRIVATE HYDRANT AND HOSE SYSTEMS  
(W/ AMENDMENTS PER CBC CH 35)

NFPA 17, 2021 EDITION, DRY CHEMICAL EXTINGUISHING SYSTEMS

NFPA 17-A, 2021 EDITION, WET CHEMICAL EXTINGUISHING SYSTEMS

NFPA 20, 2022 EDITION, INSTALLATION OF PRIVATE FIRE SERVICE MAINS AND THEIR APPURTENANCES  
(W/ AMENDMENTS PER CBC CH 35)

NFPA 72, 2022 EDITION, NATIONAL FIRE ALARM CODE  
(W/ AMENDMENTS PER CBC CH 35)

ADA (AMERICANS WITH DISABILITIES ACT, 1990) 2022 EDITION

ADA STANDARDS FOR ACCESSIBLE DESIGN (APPENDIX A OF 28 CFR PART 36)

ASCE 7 MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES

PROJECT SUMMARY	
<p>EXISTING ELEMENTARY SCHOOL MODERNIZATION:            FIRE ALARM REPLACEMENT / UPDATES            SECURITY SYSTEM REPLACEMENT / UPDATES            DIGITAL INTERCOM/CLOCK/BELL REPLACEMENT            ASSESSING TRUCKS            EXTERIOR DOR HARDWARE UPDATES            RESTROOMS UPDATED TO PROVIDE ACCESS                COMPLIANCE            CLASSROOM SINKS UPDATED TO PROVIDE ACCESS                COMPLIANCE            DRINKING FOUNTAINS UPDATED TO PROVIDE ACCESS                COMPLIANCE            REPLACEMENT OF BUILT-UP ROOFS &amp; METAL ROOF AT            RESTROOM PORTABLE BUILDING            REPLACE PLACA, FUTTERS &amp; DOWNSPOUTS AT            PORTABLE BUILDINGS            GAS &amp; WATER VALVE REPLACEMENT AS INDICATED ON            DRAWINGS</p> <p><b>SITE IMPROVEMENTS:</b>            SEAL &amp; STRIPE THE HARDCOURT / PLAYGROUND            TRAFFIC CIRCULATION AT THE BUS LOOP &amp; PARKING            LOT, SEAL AND STRIPE            FENCING AT UTILITY YARD &amp; NEW CMU TRASH ENCLOSURE            PATH OF TRAVEL IMPROVEMENTS TO PROVIDE ACCESS                COMPLIANCE            SIGHT SIGNAGE UPDATED TO PROVIDE ACCESS                COMPLIANCE            RESEED PART OF PLAYFIELDS</p>	<p>ALTERNATES:            ADD ALTERNATE #1:            1. REMOVE EXISTING CARPET, VINYL, TILE AND RUBBER               BASE IN CLASSROOMS.            2. PROVIDE NEW CARPET AND RUBBER BASE IN               CLASSROOMS, AND WALK- OFF CARPET TILE AT ENTRY               DOORS AND WET AREAS IN CLASSROOMS.            3. DEEP CLEAN CERAMIC TILE MOSAIC FLOORS IN THE               RESTROOMS.</p> <p>ADD ALTERNATE #2: PAINT INTERIOR WALLS, HARD LID            CEILING, INTERIOR AND EXTERIOR DOORS AND FRAMES IN            EACH CLASSROOM.</p> <p>ADD ALTERNATE #3: PROVIDE A 30 YEAR WARRANTY ON            SBS MODIFIED BITUMINOUS MEMBRANE ROOFING.</p>

# PROJECT TEAM

<b>OWNER</b> CENTERJOINT USD SCOTT LOEHR, SUPERINTENDENT 8408 WATT AVENUE ANTELOPE, CA 95843 PHONE: (916)338-6409 EMAIL: superintendent@centerusd.org	<b>MECHANICAL ENGINEER</b> PLUMBING ENGINEER ELECTRICAL ENGINEER FIRE SPRINKLER CONSULTANT ENERGY CONSULTANT  LP CONSULTING ENGINEERS RAMI S. ZEDJAN - E RYAN ENNIS - MP 1209 PLEASANT GROVE BLVD. ROSVILLE, CA 95078 PHONE: 916.771.0778 EXT 2904 EMAIL: spouvakul@lpengineers.com
<b>ARCHITECT</b> AC MARTIN RICHARD PARKS 3009 DOUGLAS BLVD #290 ROSVILLE, CA 95661 PHONE: 916.772.1800 EMAIL: richard.parks@acmartin.com	<b>COST ESTIMATING</b> O'DONNOR CONSTRUCTION MANAGEMENT ROB MUIR 1300 CLAY STREET, SUITE 900 OAKLAND, CA 94612 PHONE: 925.426.1578 EMAIL: rmuir@ocmi.com
<b>CIVIL ENGINEER</b> WARREN CONSULTING ENGINEERS ANTHONY J. TASSANO SETH NISBET 1117 WIDFIELD WAY, SUITE 110 EL DORADO HILLS, CA 95762 PHONE: 916.985.1870 EMAIL: seth@wceinc.com	<b>CONSTRUCTION MANAGER</b> CAPITAL PROGRAM MANAGEMENT SHARON THOMAS 1851 HERITAGE LANE, SUITE 210 SACRAMENTO, CA 95815 PHONE: (916)553-4400 EMAIL: sharon@capitalpm.com
<b>LANDSCAPE ARCHITECT</b> MTW LANDSCAPING BRYAN HOLLIS WALKER PETER LARIMER 10411 OLD PLACERVILLE RD, SUITE 205 SACRAMENTO, CA 95827 PHONE: 916.369.3990 EMAIL: peter@mtwgroup.com	

SHEET INDEX	SHEET INDEX (CON'T)
GENERAL	A10.1 ROOM FINISH & DOOR SCHEDULES & DETAILS
G0.0 COVER SHEET	MECHANICAL
G0.1 TITLE SHEET	M0.1 MECHANICAL NOTES, LEGENDS, & SPECIFICATIONS
G1.1 SITE CODE ANALYSIS & EGRESS PLAN	M2.1 MECHANICAL FLOOR PLANS BLDG A
G1.3 CALGREEN COMPLIANCE CHECKLIST	
CIVIL	PLUMBING
C0.1 TOPOGRAPHIC SURVEY	P0.1 PLUMBING NOTES, LEGENDS, & SPECIFICATIONS
C0.2 TOPOGRAPHIC SURVEY	P1.1 PLUMBING OVERALL SITE PLAN
C1.1 DEMOLITION PLAN	P2.1 PLUMBING FLOOR PLANS BLDG A & B
C2.1 GRADING PLAN	P2.2 PLUMBING FLOOR PLANS BLDG C & D
C2.2 GRADING PLAN	P2.3 PLUMBING FLOOR PLANS BLDG E & F
C2.3 GRADING PLAN	P2.4 PLUMBING FLOOR PLANS BLDG G & H
C2.4 GRADING PLAN	P2.5 PORTABLE FLOOR PLANS PORTABLE BUILDINGS
C3.1 PAVING PLAN	P3.1 ENLARGED PLUMBING FLOOR PLANS
C4.1 DETAILS AND SECTIONS	
LANDSCAPE	TECHNOLOGY
L1.1 LANDSCAPE PLANTING PLAN	T0.1 TECHNOLOGY ABBREVIATIONS, NOTES AND SHEET INDEX
L2.1 LANDSCAPE IRRIGATION PLAN	T0.2 TECHNOLOGY SYMBOL LEGEND
L3.1 LANDSCAPE IRRIGATION ADJUSTMENT	T1.1 TECHNOLOGY SITE PLAN
L4.1 LANDSCAPE IRRIGATION DETAILS	T2.1 TECHNOLOGY FLOOR PLAN -BLDG A
L5.1 LANDSCAPE IRRIGATION CHARTS	T2.2 TECHNOLOGY FLOOR PLANS -BLDG. B & C & D & E
	T2.3 TECHNOLOGY FLOOR PLANS -BLDG. F & G & H & PORTABLES
ARCHITECTURAL	T3.1 TECHNOLOGY DIAGRAMS
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A1.2 REVISED SITE PLAN	
A1.3 DEMOLITION SITE PLAN - SOUTH CAMPUS	FIRE ALARM
A1.4 DEMOLITION SITE PLAN - CENTER CAMPUS	FA0.1 FIRE ALARM NOTES, LEGENDS, & SPECIFICATIONS
A1.5 DEMOLITION SITE PLAN - NORTH CAMPUS	FA0.1 OVERALL SITE PLAN
A1.6 DEMOLITION SITE PLAN - PORTABLE BUILDINGS	FA2.1 FIRE ALARM FLOOR PLANS BLDG A
A1.7 REVISED SITE PLAN - SOUTH CAMPUS	FA2.2 FIRE ALARM FLOOR PLANS BLDG B, C, D & E
A1.8 REVISED SITE PLAN - CENTER CAMPUS	FA2.3 FIRE ALARM FLOOR PLANS BLDG F, G & H
A1.9 REVISED SITE PLAN - NORTH CAMPUS	FA2.4 FIRE ALARM FLOOR PLANS PORTABLES
A1.10 REVISED SITE PLAN - PORTABLE BUILDINGS	FA3.1 FIRE ALARM RISER DIAG -BLDG A & C
A1.11 DUMPSTER ENCLOSURE	FA3.2 FIRE ALARM RISER DIAGRAM
A1.12 ENLARGED CENTER CAMPUS PLAZA	FA3.3 FIRE ALARM RISER DGM & CALCS-PORTABLES
A1.13 ENLARGED PLAY GROUND PLAN	FA3.4 FIRE ALARM BATTERY CALCULATIONS
A1.14 SITE DETAILS	FA3.5 FIRE ALARM BATTERY CALCULATIONS
A1.15 SITE DETAILS	Grand total: 81
A2.1 FLOOR PLANS & DEMOLITION PLANS BUILDINGS A&B	
A2.2 FLOOR PLANS & DEMOLITION PLANS BUILDINGS C&D	
A2.3 FLOOR PLANS & DEMOLITION PLANS BUILDINGS E&F	
A2.4 FLOOR PLANS & DEMOLITION PLANS BUILDINGS G&H	
A2.5 ROOF PLANS BUILDINGS A-E,H	
A2.6 ROOF PLANS PORTABLE BUILDINGS	
A4.1 BUILDING A RESTROOM PLANS & INT ELEVS	
A4.2 BUILDING B RESTROOM PLANS & INT ELEVS	
A4.3 BUILDING F RESTROOM PLANS & INT ELEVS	
A5.1 CLASSROOM INTERIOR ELEVATIONS	
A5.2 CLASSROOM INTERIOR ELEVATIONS	
A6.1 REFLECTED CEILING PLANS BUILDINGS A-C	
A6.2 REFLECTED CEILING PLANS BUILDINGS D-H	
A6.1 ROOF DETAILS	
A6.2 ROOF & EXTERIOR DETAILS	
A9.1 ACCESSIBLE CLEARANCE DETAILS	
A9.2 ACCESSIBILITY AND SIGN DETAILS	
A9.3 INTERIOR DETAILS	

**VICINITY MAP**

**PROJECT ADDRESS:  
3909 NORTH LOOP BLVD  
ANTELOPE, CA**

The map shows the project location at 3909 North Loop Blvd, Antelope, CA. The map includes surrounding streets, schools, and landmarks. A callout points to the project address.



Autodesk Docs // 11815554\_CAS602\_Oak Hill ES ModOak Hill ES\_Mod\_P22.rvt

# 1 SITE PLAN

1" = 30'-0"

CENTER JOINT UNIFIED SCHOOL DISTRICT  
CAS602 OAK HILL ELEMENTARY SCHOOL

EXISTING BUILDING RENOVATION

PLUMBING FIXTURE CALCULATION (CPC TABLE 422.1)

FIXTURE OCCUPANT LOAD CALCULATION

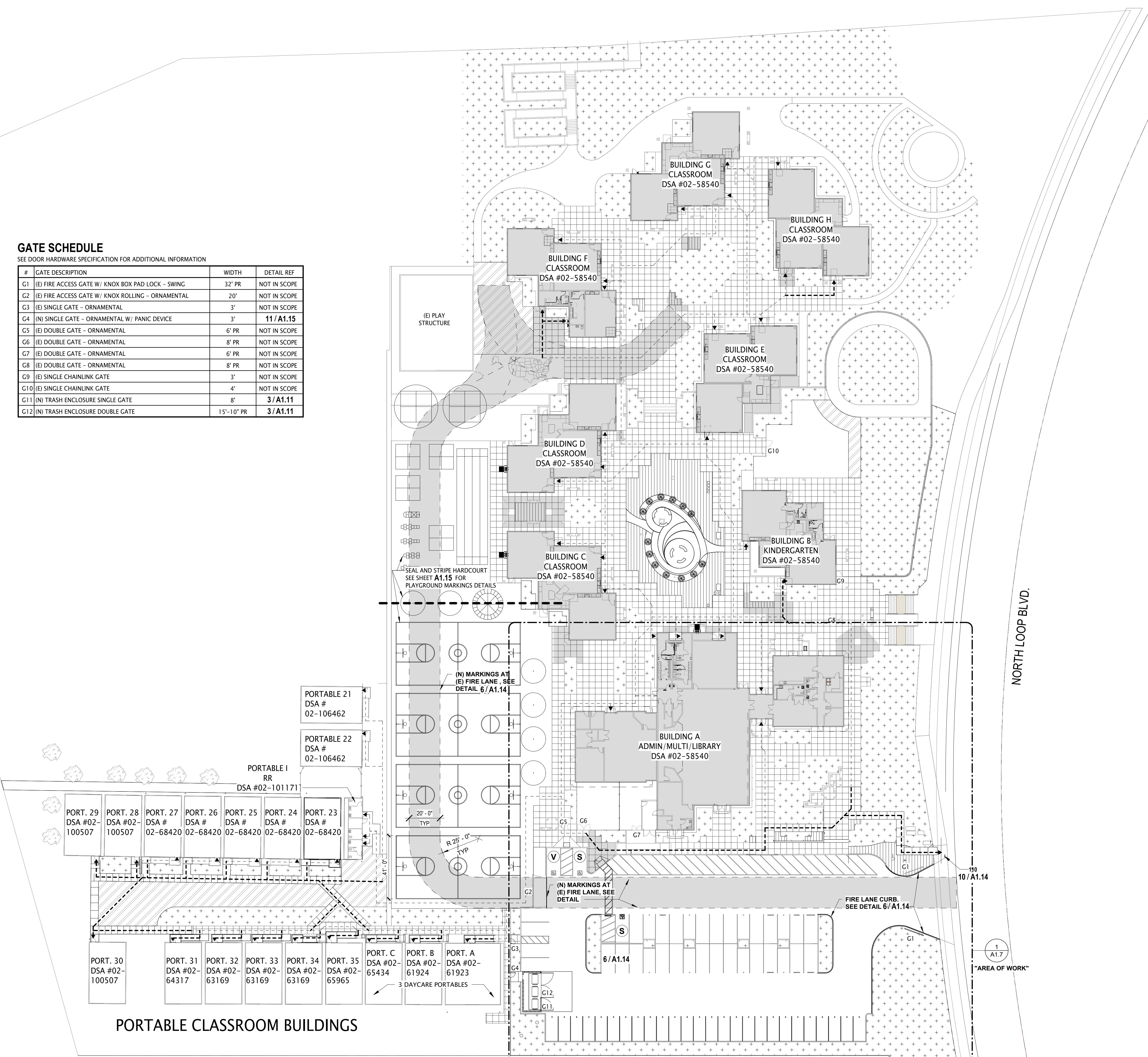
ADMINISTRATION  
3,644 SF / 200 = 18 OCCS < 50 OCCS = 1 UNISEX RESTROOM OK  
CLASSROOMS  
35,218 SF / 50 = 704 OCCS  
704 OCCS / 2 = 352 EACH M/F  
MULTI-USE ROOM  
4,306 SF / 15 = 287 OCCS  
287 OCCS / 2 = 144 EACH M/F

REQUIRED FIXTURE COUNT		WC		UR		LAV		DF	
REQ	PRV	REQ	PRV	REQ	PRV	REQ	PRV	REQ	PRV
CLASSROOMS									
MEN	8	6	4	7	9	8	5	25	
WOMEN	12	12			9	8			
MULTI-USE BUILDING									
MEN	2	2	2	5	1	4	2	2	
WOMEN	4	6			2	4			
ADMINISTRATION									
UNISEX	1	4	1	-	1	4	1	2	

## GATE SCHEDULE

SEE DOOR HARDWARE SPECIFICATION FOR ADDITIONAL INFORMATION

#	GATE DESCRIPTION	WIDTH	DETAIL REF
G1	(E) FIRE ACCESS GATE W/ KNOX BOX PAD LOCK - SWING	32' PR	NOT IN SCOPE
G2	(E) FIRE ACCESS GATE W/ KNOX ROLLING - ORNAMENTAL	20'	NOT IN SCOPE
G3	(E) SINGLE GATE - ORNAMENTAL	3'	NOT IN SCOPE
G4	(N) SINGLE GATE - ORNAMENTAL W/ PANIC DEVICE	3'	11/A1.15
G5	(E) DOUBLE GATE - ORNAMENTAL	6' PR	NOT IN SCOPE
G6	(E) DOUBLE GATE - ORNAMENTAL	8' PR	NOT IN SCOPE
G7	(E) DOUBLE GATE - ORNAMENTAL	6' PR	NOT IN SCOPE
G8	(E) DOUBLE GATE - ORNAMENTAL	8' PR	NOT IN SCOPE
G9	(E) SINGLE CHAINLINK GATE	3'	NOT IN SCOPE
G10	(E) SINGLE CHAINLINK GATE	4'	NOT IN SCOPE
G11	(N) TRASH ENCLOSURE SINGLE GATE	8'	3/A1.11
G12	(N) TRASH ENCLOSURE DOUBLE GATE	15'-10" PR	3/A1.11



## SITE EGRESS LEGEND

- EXISTING BUILDINGS
- AC PAVING, SCD
- CONCRETE FLATWORK, SCD
- (E) LANDSCAPING TO REMAIN
- (N) LANDSCAPING, SLD

- FENCING
- BUILDING ENTRY POINTS
- NEW ACCESSIBLE DRINKING FOUNTAIN
- VAN ACCESSIBLE PARKING, DSA 02-113987 TO BE RESTRIPTED WITH THIS PROJECT AS PART OF PAVEMENT RESEAL AND STRIPING, SEE A1.2
- STANDARD ACCESSIBLE PARKING, DSA 02-113987 TO BE RESTRIPTED WITH THIS PROJECT AS PART OF PAVEMENT RESEAL AND STRIPING, SEE A1.2
- EMERGENCY VEHICLE ACCESS PATH

FOR ACCESSIBLE ROUTE REQUIREMENTS SEE DETAIL 7/A1.14 AND A0.1

(E) ACCESSIBLE PATH OF TRAVEL PER DSA 02-113987

(N) ACCESSIBLE PATH OF TRAVEL:

BARRIER-FREE ACCESS ROUTE WITHOUT ANY ABRUPT LEVEL CHANGES EXCEEDING 1/2" IF REVELED AT 1:2 MAX SLOPE, OR VERTICAL LEVEL CHANGES NOT EXCEEDING 1/4" MAX AND 48" MIN WIDTH. SURFACE IS TO BE STABLE, FIRM AND SLIP RESISTANT. CROSS SLOPE NOT TO EXCEED 2%. SLOPE IN DIRECTION OF TRAVEL NOT TO EXCEED 3%. ACCESSIBLE ROUTE SHALL BE MAINTAINED TO PROVIDE 80" CLEAR HEIGHT W/ 4" MAX OBJECT PROTRUSION.

ARCHITECT VERIFIED COMPLIANCE WITH THE FOLLOWING STATEMENT:

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

## DRAWING NOTES

110 (E) UNAUTHORIZED PARKING SIGN

## BUILDING DATA

CENTER JOINT UNIFIED SCHOOL DISTRICT

CAS602 OAK HILL ELEMENTARY

EXISTING BUILDING RENOVATION

ACCESSORS PARCEL NUMBER	203-0070-086
OCCUPANCY	B SECTION 304 (N.I.C.)
ADMINISTRATION	E SECTION 305
CLASSROOMS	A-3 SECTION 303.1.3 (N.I.C.)
MULTI-USE ROOM	

CONSTRUCTION TYPE (TABLE 601) V-8 EXISTING

NUMBER OF STORIES (TABLE 504.4)

PROVIDED 1 EXISTING

BUILDING HEIGHT 19'-0" EXISTING

PERMANENT BUILDING AREAS (SF)

BLDG A	ADMINISTRATION	3,644 SF DSA02-58540
BLDG A	MULTI-USE	4,306 SF DSA02-58540
BLDG A	LIBRARY	1,556 SF DSA02-58540
BLDG A	COMPUTER CR	1,513 SF DSA02-58540
BLDG B	KINDERGARTEN	2,779 SF DSA02-58540
BLDG C	CLASSROOMS	3,101 SF DSA02-58540
BLDG D	CLASSROOMS	3,101 SF DSA02-58540
BLDG E	CLASSROOMS	3,204 SF DSA02-58540
BLDG F	CLASSROOMS	3,101 SF DSA02-58540
BLDG G	CLASSROOMS	3,101 SF DSA02-58540
BLDG H	CLASSROOMS	3,204 SF DSA02-58540

PORTABLE CLASSROOM BUILDINGS (SF)

BLDG 1	RESTROOM	480 SF DSA02-101171
BLDG 21	CLASSROOM	960 SF DSA02-106462
BLDG 22	CLASSROOM	960 SF DSA02-106462
BLDG 23	CLASSROOM	960 SF DSA02-68420
BLDG 24	CLASSROOM	960 SF DSA02-68420
BLDG 25	CLASSROOM	960 SF DSA02-68420
BLDG 26	CLASSROOM	960 SF DSA02-68420
BLDG 27	CLASSROOM	960 SF DSA02-68420
BLDG 28	CLASSROOM	960 SF DSA02-100507
BLDG 29	CLASSROOM	960 SF DSA02-100507
BLDG 30	CLASSROOM	960 SF DSA02-100507
BLDG 31	CLASSROOM	960 SF DSA02-64317
BLDG 32	CLASSROOM	960 SF DSA02-63169
BLDG 33	CLASSROOM	960 SF DSA02-63169
BLDG 34	CLASSROOM	960 SF DSA02-63169
BLDG 35	CLASSROOM	960 SF DSA02-65963
BLDG A	DAYCARE	1,440 SF DSA02-61923
BLDG B	DAYCARE	960 SF DSA02-61924
BLDG C	DAYCARE	960 SF DSA02-65434

TOTAL BUILDING AREA 51,403 SF

PROJECT AREA 20,490 SF

SEPARATED USE HEIGHT INCREASE NO NO

REQUIRED FIRE RESISTIVE RATINGS (TABLE 601)

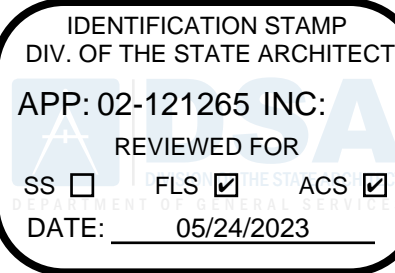
STRUCTURAL FRAME BEARING WALLS	0 HOUR
EXTERIOR	0 HOUR
INTERIOR	0 HOUR
NON-BEARING WALLS	0 HOUR W/ MIN 10' SEPARATION
EXTERIOR (TABLE 602)	0 HOUR
INTERIOR	0 HOUR
FLOORS - CEILING/FLOORS	0 HOUR
ROOF CONSTRUCTION	0 HOUR
SHAFT ENCLOSURES	1 HOUR (LESS THAN 4 STORIES)
CORRIDOR WALLS	1 HOUR (TABLE 1020.1)

FIRE SPRINKLERS EXISTING YES IN BLDG A ONLY  
FIRE ALARM YES - AUTOMATIC  
SMOKE CONTROL SYSTEM NO

HIGH FIRE HAZARD SEVERITY ZONE: NO  
SEISMIC JOINT YES, BUILDINGS A, E, H

OCCUPANT LOAD CALCULATION  
B OCC 3,644 SF @ 100 SF/OCC = 36  
E OCC 35,218 SF @ 20 SF/OCC = 1,761  
A-3 OCC 4,306 @ 15 SF/OCC = 287

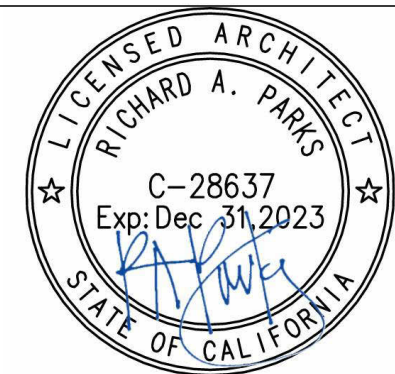
dsa



architect

**ARCHMARTIN**  
3809 DOUGLAS BLVD SUITE 290  
ROSEVILLE CA 95661 T 916 772 1800

stamp



consultant

project number CAS602

project director

project designer

project architect

revisions

no. date revision

## DSA BACKCHECK - V2 4-25-2023

client / project

## OAK HILL ES HARDSHIP MODERNIZATION

CJUSD  
3909 NORTH LOOP BLVD  
ANTELOPE, CA 95843

sheet name

## SITE CODE ANALYSIS & EGRESS PLAN

sheet number

## G1.1

plot date 5/24/2023 9:42:09 AM



Autodesk Docu/17/15054\_C45600\_Oak Hill ES Mod Oak Hill ES\_Mod\_P22.rvt

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2. Field verification of on-site product containers.
- **5.504.4.4 Carpet systems.** All carpet installed in the building interior shall meet at least one of the following testing and product requirements:
1. Carpet and Rug Institute's Green Label Plus Program;
  2. Compliant with the VOC-emission limits and testing requirements specified in the California Department of Public Health Standard Method for the Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources Using Environmental Chambers, Version 1.1, February 2010 (also known as CDPH Standard Method V1.1 or *Specification 01350*);
  3. NSF/ANSI 140 at the Gold level or higher;
  4. Scientific Certifications Systems Sustainable Choice; or
  5. Compliant with the Collaborative for High Performance Schools California (CA-CHPS) Criteria 2014 and listed in the CHPS High Performance Product Database.
- **5.504.4.4.1 Carpet cushion.** All carpet cushion installed in the building interior shall meet the requirements of the Carpet and Rug Institute's Green Label program.
- **5.504.4.4.2 Carpet adhesive.** All carpet adhesive shall meet the requirements of Table 5.504.4.1.
- **5.504.4.5 Composite wood products.** Hardwood plywood, particleboard, and medium density fiberboard composite wood products used on the interior or exterior of the building shall meet the requirements for formaldehyde as specified in ARB's Air Toxics Control Measure (ATCM) for Composite Wood (17 CCR 93120 et seq.). Those materials not exempted by the ATCM must meet the specified emission limits as shown in Table 5.504.4.5.

TABLE 5.504.4.5 – FORMALDEHYDE LIMITS  
(See CALGreen for TABLE)

- **5.504.4.6 Resilient flooring systems.** For 80 percent of floor area receiving resilient flooring, installed resilient flooring shall meet at least one of the following:
1. Certified under the Resilient Floor Covering Institute (RFCI) FloorScore program;
  2. Compliant with the VOC-emission limits and testing requirements specified in the California Department of Public Health's 2010 Standard Method for the Testing and Evaluation Chambers, Version 1.1, February 2010;
  3. Compliant with the Collaborative for High Performance Schools California (CA-CHPS) Criteria 2014 and listed in the CHPS High Performance Product Database; or
  4. Products certified under the UL GREENGUARD Gold (formerly the Greenguard Children & Schools program).
- **5.504.5.3 Filters.** In mechanically ventilated buildings, provide regularly occupied areas of the building with air filtration media for outside and return air prior to occupancy that provides at least a Minimum Efficiency Reporting Value (MERV) of 13. MERV 13 filters shall be installed prior to occupancy and recommendations for maintenance with filters of the same value shall be included in the operation and maintenance manual.
- Exception:** Existing mechanical equipment.
- 5.504.5.3.1 Labeling.** Installed filters shall be clearly labeled by the manufacturer indicating the MERV rating.

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SECTION 5.505 – INDOOR MOISTURE CONTROL

- **5.505.1 Indoor moisture control.** Buildings shall meet or exceed the provisions of *California Building Code*, CCR, Title 24, Part 2, Sections 1202 (Ventilation) and Chapter 14 (Exterior Walls). For additional measures see Section 5.407.2 of this code.
- SECTION 5.506 – INDOOR AIR QUALITY**
- **5.506.1 Outside air delivery.** For mechanically or naturally ventilated spaces in buildings, meet the minimum requirements of Section 120.1 (Requirements for Ventilation) of the *California Energy Code*, or the applicable local code, whichever is more stringent, and Division 1, Chapter 4 of CCR, Title 8.

SECTION 5.507 – ENVIRONMENTAL COMFORT

- **5.507.4 Acoustical control.** Employ building assemblies and components with Sound Transmission Class (STC) values determined in accordance with ASTM E 90 and ASTM E 413 or Outdoor–Indoor Sound Transmission Class (OTC) determined in accordance with ASTM E 1332, using either the prescriptive or performance method in Section 5.507.4.1 or 5.507.4.2.
- Exception:** Buildings with few or no occupants or where occupants are not likely to be affected by exterior noise, as determined by the enforcement authority, such as factories, stadiums, storage, enclosed parking structures and utility buildings.
- Exception: [DSA-SS]** For public schools and community colleges, the requirement of this section and all subsections apply only to new construction.
- **5.507.4.1 Exterior noise transmission, prescriptive method.** Wall and roof-ceiling assemblies exposed to the noise source making up the building or addition envelope or altered envelope shall meet a composite STC rating of at least 50 or a composite OTC rating of no less than 40, with exterior windows of a minimum STC of 40 or OTC of 30 in the following locations:
1. Within the 65 CNEL noise contour of an airport.
- Exceptions:**
1.  $L_{w}$  or CNEL for military airports shall be determined by the facility Air Installation Compatible Land Use Zone (AICUZ) plan.
  2.  $L_{w}$  or CNEL for other airports and heliports for which a land use plan has not been determined shall be determined by the local general plan noise element.
2. Within the 65 CNEL or  $L_{w}$  noise contour of a freeway or expressway, railroad, industrial source or fixed-guideway source as determined by the Noise Element of the General Plan.
- **5.507.4.1.1 Noise exposure where noise contours are not readily available.** Buildings exposed to a noise level of 65 dBA<sub>1hr</sub> during any hour of operation shall have building, addition or alteration exterior wall and roof-ceiling assemblies exposed to the noise source meeting a composite STC rating of at least 45 (or OTC 35), with exterior windows of a minimum STC of 40 (or OTC 30).
- **5.507.4.2 Performance method.** For buildings located as defined in Section 5.507.4.1 or 5.507.4.1.1, wall and roof-ceiling assemblies exposed to the noise source making up the building or addition envelope or altered envelope shall be constructed to provide an interior noise environment attributable to exterior sources that does not exceed an hourly equivalent noise level ( $L_{w}$ -1hr) of 50 dBA in occupied areas during any hour of operation.
- **5.507.4.2.1 Site features.** Exterior features such as sound wall or earth berms may be utilized as appropriate to the building, addition or alteration project to mitigate sound migration to the interior.

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- **5.507.4.2.2 Documentation of compliance.** An acoustical analysis documenting complying interior sound levels shall be prepared by personnel approved by the architect or engineer of record.
- **5.507.4.3 Interior sound transmission.** Wall and floor-ceiling assemblies separating tenant spaces and tenant spaces and public places shall have an STC of at least 40.
- Note:** Examples of assemblies and their various STC rating may be found at the California Office of Noise Control: [https://www.tdhb.com/files/STC-IC\\_Ratings.pdf](https://www.tdhb.com/files/STC-IC_Ratings.pdf)
- SECTION 5.508 – OUTDOOR AIR QUALITY**
- 5.508.1 Ozone depletion and greenhouse gas reductions.** Installations of HVAC, refrigeration and fire suppression equipment shall comply with Sections 5.508.1.1 and 5.508.1.2.
- **5.508.1.1 Chlorofluorocarbons (CFCs).** Install HVAC, refrigeration and fire suppression equipment that do not contain CFCs.

A DSA Project Submittal Guideline is a compilation of recommendations based on code, referenced standards, DSA bulletins/polyprocedures/interpretation documents, and DSA practices. These guidelines are intended to give the design professional helpful information and insight into DSA's project application, submittal, and review processes. Guidelines are provided by DSA in support of DSA's goals of providing stakeholders information they need to facilitate working smoothly with DSA, and to help standardize practices among the four DSA Regional Offices.

Compliance with a Guideline does not assure that a project is complete or that it advises to the requirements of the California Building Standards Code (Title 24 of the California Code of Regulations) or all DSA requirements. Additional information may be required, depending on project complexity or site conditions. For complete submittal requirements see forms DSA 1, Application for Approval of Plans and Specifications and DSA 2, Project Submittal Checklist.

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SECTION 5.504 – OUTDOOR WATER USE

- 5.504.6 Outdoor potable water use in landscape areas.** For public schools and community colleges, landscape projects as described in Sections 5.504.6.1 and 5.504.6.2 shall comply with the California Department of Water Resources Model Water Efficient Landscape Ordinance (MWELO) commencing with Section 490 of Chapter 2.7, Division 2, Title 23, *California Code of Regulations*, except that the Evapotranspiration Adjustment Factor (ETAF) shall be 0.65 with an additional water allowance for special landscape areas (SLA) of 0.35.
- Exception:** Any project with an aggregate landscape area of 2,500 square feet or less may comply with the prescriptive measures contained in Appendix D of the MWELO.
- **5.504.6.1 Newly constructed landscapes.** New construction projects with an aggregate landscape area equal to or greater than 500 square feet.
- **5.504.6.2 Rehabilitated landscapes.** Rehabilitated landscape projects with an aggregate landscape area equal to or greater than 1,200 square feet.

DIVISION 5.4 – MATERIAL CONSERVATION AND RESOURCE EFFICIENCY

SECTION 5.407 – WATER RESISTANCE AND MOISTURE MANAGEMENT

- **5.407.1 Weather protection.** Provide a weather-resistant exterior wall and foundation envelope as required by *California Building Code*, Section 1402.2 (Weather Protection), manufacturer's installation instructions, or local ordinance, whichever is more stringent.
- 5.407.2 Moisture control.** Employ moisture control measures by the following methods:
- **5.407.2.1 Sprinklers.** Design and maintain landscape irrigation systems to prevent spray on structures.
- 5.407.2.2 Entries and openings.** Design exterior entries and/or openings subject to foot traffic or wind-driven rain to prevent water intrusion into buildings as follows:
- **5.407.2.2.1 Exterior door protection.** Primary exterior entries shall be covered to prevent water infiltration by using nonabsorbent floor and wall finishes within at least 2 feet around and perpendicular to such openings plus at least one of the following:
1. An installed awning at least 4 feet in depth.
  2. The door is protected by a roof overhang at least 4 feet in depth.
  3. The door is recessed at least 4 feet.
  4. Other methods which provide equivalent protection.
- **5.407.2.2.2 Flashing.** Installed flashings integrated with a drainage plane.

SECTION 5.408 – CONSTRUCTION WASTE REDUCTION, DISPOSAL AND RECYCLING

- 5.408.1 Construction waste management.** Recycle and/or salvage for reuse a minimum of 65 percent of the nonhazardous construction and demolition waste in accordance with Section 5.408.1.1, 5.408.1.2 or 5.408.1.3, or meet a local construction and demolition waste management ordinance, whichever is more stringent.
- **5.408.1.1 Construction waste management plan.** Where a local jurisdiction does not have a construction and demolition waste management ordinance that is more stringent, submit a construction waste management plan that:
1. Identifies the construction and demolition waste materials to be diverted from disposal by efficient usage, recycling, reuse on the project or salvage for future use or sale.

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2. Determines if construction and demolition waste materials will be sorted on-site (source-separated) or bulk mixed (single stream).
3. Identifies diversion facilities where construction and demolition waste material collected will be taken.
4. Specifies that the amount of construction and demolition waste materials diverted shall be calculated by weight or volume, but not by both.

- **5.408.1.2 Waste management company.** Utilize a waste management company that can provide verifiable documentation that the percentage of construction and demolition waste material diverted from the landfill complies with this section.
- Note:** The owner or contractor shall make the determination if the construction and demolition waste material will be diverted by a waste management company.
- Exceptions to Sections 5.408.1.1 and 5.408.1.2:**
1. Excavated soil and land-clearing debris.
  2. Alternate waste reduction methods developed by working with local agencies if diversion or recycle facilities capable of compliance with this item do not exist.
  3. Demolition waste meeting local ordinance or calculated in consideration of local recycling facilities and markets.

- **5.408.1.3 Waste stream reduction alternative.** The combined weight of new construction disposal that does not exceed two pounds per square foot of building area may be deemed to meet the 65 percent minimum requirement as approved by the enforcing agency.
- **5.408.1.4 Documentation.** Documentation shall be provided to the enforcing agency which demonstrates compliance with Section 5.408.1.1 through 5.408.1.3. The waste management plan shall be updated as necessary and shall be accessible during construction for examination by the enforcing agency.

- Notes:**
1. Sample forms found in "A Guide to the California Green Building Standards Code (Nonresidential)" located at [www.bsc.ca.gov/home/CA\\_Green.aspx](http://www.bsc.ca.gov/home/CA_Green.aspx) may be used to assist in documenting compliance with the waste management plan.
  2. Mixed construction and demolition debris (C&D) processors can be located at the California Department of Resources Recycling and Recovery (CalRecycle).
- SECTION 5.410 – BUILDING MAINTENANCE AND OPERATION**
- **5.410.1 Recycling by occupants.** Provide readily accessible areas that serve the entire building and are identified for the depositing, storage and collection of non-hazardous materials for recycling, including (at a minimum) paper, corrugated cardboard, glass, plastics, organic waste, and metals or meet a lawfully enacted local recycling ordinance, if more restrictive.
- Exception:** Rural jurisdictions that meet and apply for the exemption of Public Resources Code 42649.92 (a)(2)(A) et seq. will also be exempt from the organics waste portion of this section.
- **5.410.1.2 Sample ordinance.** Space allocation for recycling areas shall comply with Chapter 18, Part 3, Division 30 of the Public Resources Code. Chapter 18 is known as the California Solid Waste Reuse and Recycling Access Act of 1991 (Act).
- Note:** A sample ordinance for use by local agencies may be found in Appendix A of the document at the CalRecycle's website.

DIVISION 5.5 ENVIRONMENTAL QUALITY

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SECTION 5.504.1 – POLLUTANT CONTROL

- **5.504.3 Covering of duct openings and protection of mechanical equipment during construction.** At the time of rough installation and during storage on the construction site until final startup of the heating, cooling and ventilating equipment, all duct and other related air distribution component openings shall be covered with duct, plastic, sheet metal or other methods acceptable to the enforcing agency to reduce the amount of dust, water and debris which may enter the system.
- 5.504.4 Finish material pollutant control.** Finish materials shall comply with Sections 5.504.4.1 through 5.504.4.6.
- **5.504.4.1 Adhesives, sealants, and caulks.** Adhesives, sealants, and caulks used on the project shall meet the requirements of the following standards:
1. Adhesives, adhesive bonding primers, adhesive primers, sealants, sealant primers, and caulks shall comply with local or regional air pollution control or air quality management district rules where applicable, or SCAQMD Rule 1168 VOC limits, as shown in Tables 5.504.4.1 and 5.504.4.2. Such products also shall comply with the Rule 1168 prohibition on the use of certain toxic compounds (chloroform, ethylene dichloride, methylene chloride, perchloroethylene, and trichloroethylene), except for aerosol products as specified in subsection 2, below.
  2. Aerosol adhesives, and smaller unit sizes of adhesives, and sealant or caulking compounds (in units of product, less packaging, which do not weigh more than one pound and do not consist of more than 16 fluid ounces) shall comply with statewide VOC standards and other requirements, including prohibitions on use of certain toxic compounds, of *California Code of Regulations*, Title 17, commencing with Section 94507.

TABLE 5.504.4.1 – ADHESIVE VOC LIMIT  
(See CALGreen for TABLE)

TABLE 5.504.4.2 – SEALANT VOC LIMIT  
(See CALGreen for TABLE)

- **5.504.4.3 Paints and coatings.** Architectural paints and coatings shall comply with VOC limits in Table 1 of the ARB Architectural Coatings Suggested Control Measure, as shown in Table 5.504.4.3, unless more stringent local limits apply. The VOC content limit for coatings that do not meet the definitions for the specialty coatings categories listed in Table 5.504.4.3, shall be determined by classifying the coating as a Flat, Nonflat, or Nonflat-High Gloss coating, based on its gloss, as defined in Subsections 4.21, 4.36 and 4.37 of the 2007 California Air Resources Board, Suggested Control Measure, and the corresponding Flat, Nonflat or Nonflat-High Gloss VOC limit in Table 5.504.4.3 shall apply.

TABLE 5.504.4.3 – VOC CONTENT LIMITS FOR ARCHITECTURAL COATINGS  
(See CALGreen for TABLE)

- **5.504.4.3.1 Aerosol paints and coatings.** Aerosol paints and coatings shall meet the PWMIR Limits for ROC in Section 94522(a)(3) and other requirements, including prohibitions on use of certain toxic compounds and ozone depleting substances, in Sections 94522(c)(2) and (c)(2) of *California Code of Regulations*, Title 17, commencing with Section 94520, and in areas under the jurisdiction of the Bay Area Air Quality Management District additionally comply with the percent VOC by weight of product limits of Regulation 8 Rule 49.

- **5.504.4.3.2 Verification.** Verification of compliance with this section shall be provided at the request of the enforcing agency. Documentation may include, but is not limited to, the following:
1. Manufacturer's product specification.

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TABLE 5.106.5.3.3	
TOTAL NUMBER OF ACTUAL PARKING SPACES	NUMBER OF REQUIRED EV CHARGING SPACES
0 – 9	0
10 – 25	1
26 – 50	2
51 – 75	4
76 – 100	5
101 – 150	7
151 – 200	10
201 and over	6 percent of total <sup>1</sup>

<sup>1</sup> Calculation for spaces shall be rounded up to the nearest whole number.

- **5.106.5.3.4 [N] Identification.** The service panel or subpanel(s) circuit directory shall identify the reserved device space(s) for future EV charging as "EV CAPABLE". The raceway termination location shall be permanently and visibly marked as "EV CAPABLE."
- **5.106.5.3.5 [N] Future charging spaces.** Future charging spaces qualify as designated parking as described in Section 5.106.5.2 Designated parking for clean air vehicles.
- **5.106.8 Light pollution reduction.** [N] Outdoor lighting systems shall be designed and installed to comply with the following:
1. The minimum requirements in the *California Energy Code* for Lighting Zones 0 to 4 as defined in Chapter 10, Section 10-114 of the *California Administrative Code*, and
  2. Backlight, (B) ratings as defined in Illuminating Engineering Society of North America (IESNA) TM-15-11 (shown in Table A-1 in Chapter 8), and
  3. Uplight and Glare ratings as defined in *California Energy Code* (shown in TABLES 130.2-A and 130.2-B in Chapter 8) and
  4. Allowable Backlight, Uplight, and Glare (BUG) ratings not exceeding those shown in Table 5.106.8 [N], or Comply with a local ordinance lawfully enacted pursuant to Section 101.7, whichever is more stringent.
- Exceptions: [N]**
1. Luminaires that qualify as exceptions in Section 140.7 of the *California Energy Code*.
  2. Emergency lighting.
  3. Building facade meeting the requirements in Table 140.7-B of the *California Energy Code*, Part 6.
  4. Custom lighting features as allowed by the local enforcing agency, as permitted by Section 101.8 Alternate materials, designs and methods of construction.

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- Notes:**
1. [N] See also *California Building Code*, Chapter 12, Section 1205.7 for college campus lighting requirements for parking facilities and walkways.
  2. Refer to Chapter 8 (Compliance Forms, Worksheets and Reference Material) for Illuminating Engineering Society Technical Memorandum TM-15-11 Table A-1, *California Energy Code* Tables 130.2-A and 130.2-B.
  3. Refer to the *California Energy Code* for requirements for additions and alterations.

TABLE 5.106.8 [N]  
MAXIMUM ALLOWABLE BACKLIGHT, UPLIGHT, AND GLARE (BUG) RATINGS  
(See CALGreen for TABLE)

- **5.106.10 Grading and paving.** Construction plans shall indicate how site grading or a drainage system will manage all surface water flows to keep water from entering buildings. Examples of methods to manage surface water include, but are not limited to, the following:
1. Swales.
  2. Water collection and disposal systems.
  3. French drains.
  4. Water retention gardens.
  5. Other water measures which keep surface water away from buildings and aid in groundwater recharge.
- Exception:** Additions and alterations not altering the drainage path.
- **5.106.12 Shade trees.** [DSA-SS] Shade trees shall be planted to comply with Sections 5.106.12.1, 5.106.12.2, and 5.106.12.3. Percentages shown shall be measured at noon on the summer solstice. Landscape irrigation necessary to establish and maintain tree health shall comply with Section 5.504.6.
- **5.106.12.1 Surface parking areas.** Shade tree plantings, minimum #10 container size or equal, shall be installed to provide shade over 50% of the parking area within 15 years.
- Exception:** The surface parking area covered by solar photovoltaic shade structures, or shade structures with roofing materials that comply with Table A5.106.11.2.2 in Appendix A5, are not included in the total area calculation.
- **5.106.12.2 Landscape areas.** Shade trees plantings, minimum #10 container size or equal, shall be installed to provide shade over 20% of the landscape area within 15 years.
- Exception:** Playfields for organized sport activity are not included in the total area calculation.
- **5.106.12.3 Hardscape areas.** Shade trees plantings, minimum #10 container size or equal, shall be installed to provide shade over 20% of the hardscape area within 15 years.

- Exception:** Walks, hardscape areas covered by solar photovoltaic shade structures, and hardscape areas covered by shade structures with roofing materials that comply with Table A5.106.11.2.2 in Appendix A5, are not included in the total area calculation.

DIVISION 5.2 – ENERGY EFFICIENCY

- SECTION 5.201 – GENERAL**
- **5.201.1 California Energy Code.** For the purposes of mandatory energy efficiency standards in this code, the California Energy Commission will continue to adopt mandatory standards.

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DIVISION 5.3 – WATER EFFICIENCY AND CONSERVATION

SECTION 5.303 – INDOOR WATER USE

- 5.303.3 Water conserving plumbing fixtures and fittings.** Plumbing fixtures (water closets and urinals) and fittings (faucets and showerheads) shall comply with the following:
- **5.303.3.1 Water closets.** The effective flush volume of all water closets shall not exceed 1.28 gallons per flush. Tank-type water closets shall be certified to the performance criteria of the U.S. EPA WaterSense Specifications for Tank-Type Toilets.
- Note:** The effective flush volume of dual flush toilets is defined as the composite, average flush volume of two reduced flushes and one full flush.
- 5.303.3.2 Urinals.**
- **5.303.3.2.1 Wall mounted urinals.** The effective flush volume of wall mounted urinals shall not exceed 0.125 gallons per flush.
- **5.303.3.2.2 Floor mounted urinals.** The effective flush volume of floor mounted or other urinals shall not exceed 0.5 gallons per flush.
- 5.303.3.3 Showerheads**
- **5.303.3.3.1 Single showerhead.** Showerheads shall have a maximum flow rate of not more than 1.8 gallons per minute at 80 psi. Showerheads shall be certified to the performance criteria of the U.S. EPA WaterSense Specifications for showerheads.
- **5.303.3.3.2 Multiple showerheads serving one shower.** When a shower is served by more than one showerhead, the combined flow rate of all showerheads and/or other shower outlets controlled by a single valve shall not exceed 1.8 gallons per minute at 80 psi, or the showerhead shall be designed to allow only one shower outlet to be in operation at one time.
- Note:** A hand-held shower shall be considered a showerhead.
- 5.303.3.4 Faucets and fountains.**
- **5.303.3.4.1 Non-residential lavatory faucets.** Non-residential lavatory faucets shall have a maximum flow rate of not more than 0.5 gallons per minute at 60 psi.
- **5.303.3.4.2 Kitchen faucets.** Kitchen faucets shall have a maximum flow rate of not more than 1.8 gallons per minute at 60 psi. Kitchen faucets may temporarily increase the flow above the maximum rate, but not to exceed 2.2 gallons per minute at 60 psi, and must default to a maximum flow rate of 1.8 gallons per minute at 60 psi.
- **5.303.3.4.3 Wash fountains.** Wash fountains shall have a maximum flow rate of not more than 1.8 gallons per minute/20 [in space (inches) at 60 psi].
- **5.303.3.4.4 Metering faucets.** Metering faucets shall not deliver more than 0.20 gallons per cycle.
- **5.303.3.4.5 Metering faucets for wash fountains.** Metering faucets for wash fountains shall have a maximum flow rate of not more than 0.20 gallons per cycle/20 [in space (inches) at 60 psi].
- Note:** Where complying faucets are unavailable, aerators or other means may be used to achieve reduction.
- **5.303.6 Standards for plumbing fixtures and fittings.** Plumbing fixtures and fittings shall be installed in accordance with the *California Plumbing Code*, and shall meet the applicable standards referenced in Table 1701.1 of the *California Plumbing Code* and in Chapter 6 of this code.

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**ADSA** **GL-4**  
PROJECT SUBMITTAL GUIDELINE: CALGREEN CODE

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

Projects submitted to DSA for review, as a single project or as increments, must comply with the Title 24, Part 11, California Green Building Standards Code (CALGreen).

DSA-SS CALGreen regulatory requirements consists of compliance with the scoping requirements in CALGreen Chapter 3, Section 301.4 and the Nonresidential Mandatory Measures adopted by DSA-SS in Chapter 5. Please refer to the Chapter 5 Matrix Adoption Tables for each Division for the specific Mandatory Measures adopted by DSA-SS.

The measures outlined in CALGreen Chapter 5, Section 5.410.2 for building and site Commissioning and Section 5.410.4 for building and site Testing and Adjusting are not mandatory requirements for schools and community colleges, however, portions of these regulations are required by the California Energy Code with which all facilities must comply. For mandatory Commissioning requirements under the California Energy Code, including installation and acceptance testing requirements, refer to Energy Code Section 120.8. Although not adopted by DSA-SS, the additional design measures for Commissioning in CALGreen Section 5.410.2 and the verification measures for Testing and Adjusting under CALGreen Section 5.410.4 are encouraged and recommended.

CALGreen Section 306 Voluntary Measures encourages building practices that improve public health, safety and general welfare by promoting the use of building concepts which minimize the building's impact on the environment, and promote a more sustainable design. Chapter 5 Nonresidential Mandatory Measures that are not adopted as mandatory measures by DSA-SS are voluntary measures recommended and encouraged for the design, construction, verification, and maintenance of non-energy systems. Appendix A5, Divisions A5.1 through A5.5 outline means of achieving enhanced sustainable design and construction by incorporating voluntary measures that exceed the mandatory measures.

Attachment 1 lists the CALGreen Nonresidential Mandatory Measures adopted by DSA-SS. For the complete text, consult the 2019 Title 24, Part 11, California Green Building Standards Code. For Project Submission, check the CALGreen Mandatory Measures that are applicable to and have been incorporated into the Project and submit this Guideline (checklist) with the application.

GL-4 (Revised 01/28/20)  
DIVISION OF THE STATE ARCHITECT DEPARTMENT OF GENERAL SERVICES STATE OF CALIFORNIA Page 1 of 12

DSA PROJECT SUBMITTAL GUIDELINE-4  
CALGREEN CODE

- Attachment 1**
- 2019 CALIFORNIA GREEN BUILDING STANDARDS CODE**  
Division of the State Architect – Structural Safety (DSA-SS)  
(CCR, Title 24, Part 11)
- CHAPTER 3 – GREEN BUILDING**  
**SECTION 301 – GENERAL**
- 301.4 Mandatory measures for public schools and community colleges.** [DSA-SS] New building construction and site work on a new or existing site shall comply with Section 301.4.
- 301.4.1** Building and site construction on a new site shall comply with Chapter 5 as adopted by DSA-SS.
- 301.4.2** Work on an existing site shall comply with Section 301.4.2.
- **301.4.2.1** Newly constructed site work shall comply with Chapter 5 as adopted by DSA-SS.
- **301.4.2.2** Newly constructed buildings shall comply with Chapter 5 as adopted by DSA-SS and Section 301.4.3.
- **301.4.2.3** Additions to existing buildings shall comply with Section 301.4.3.
- **301.4.2.4** Rehabilitated landscape areas shall comply with Sections 5.504.6 and 5.106.12.
- **301.4.3 Minimum rehabilitated landscape area requirement.** A minimum rehabilitated landscape area equal to 75 percent of the footprint area of the building shall comply with Section 5.504.6 and Section 106.12. New buildings or additions to existing buildings less than 1,600 square feet shall not be required to comply with Section 301.4.3.

**CHAPTER 5 – NONRESIDENTIAL MANDATORY MEASURES**  
**DIVISION 5.1 – PLANNING AND DESIGN**

**SECTION 5.106 – SITE DEVELOPMENT**

**5.106.2 Bicycle parking.** [DSA-SS] For public schools and community colleges, comply with Sections 5.106.4.2.1 and 5.106.4.2.2.

■ **5.106.4.2.1 Student bicycle parking.** Provide permanently anchored bicycle racks conveniently accessed with a minimum of four two-bike capacity racks per new building.

■ **5.106.4.2.2 Staff bicycle parking.** Provide permanent secure bicycle parking conveniently accessed with a minimum of two staff bicycle parking spaces per new building. Acceptable parking facilities shall be convenient from the street or staff parking area and shall meet one of the following:

1. Covered, lockable enclosures with permanently anchored racks for bicycles;
2. Lockable bicycle rooms with permanently anchored racks; or
3. Lockable, permanently anchored bicycle lockers.

■ **5.106.5.3 Electric vehicle (EV) charging.** [N] Construction shall comply with Section 5.106.5.3.1 or Section 5.106.5.3.2 to facilitate future installation of electric vehicle supply equipment (EVSE). When EVSE(s) are installed, it shall be in accordance with the *California Building Code*, the *California Electrical Code* and as follows:

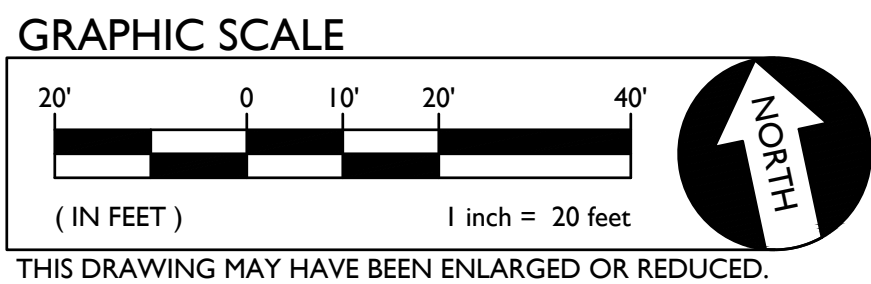
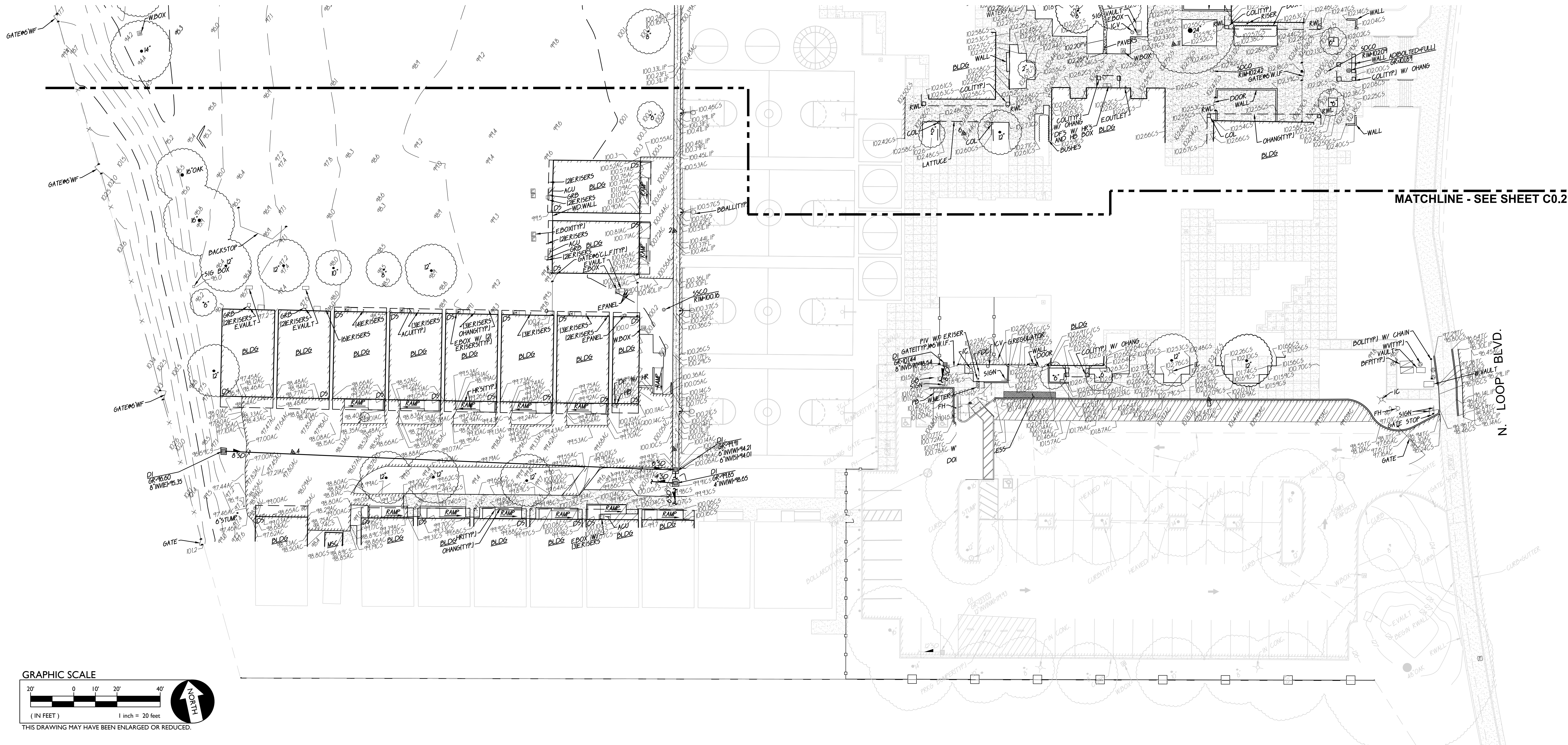
GL-4 (Revised 01/28/20)  
DIVISION OF THE STATE ARCHITECT DEPARTMENT OF GENERAL SERVICES STATE OF CALIFORNIA Page 2 of 12

DSA PROJECT SUBMITTAL GUIDELINE-4  
CALGREEN CODE

- **5.106.5.3.1 Single charging space requirements.** [N] When only a single charging space is required per Table 5.106.5.3.3, a raceway is required to be installed at the time of construction and shall be installed in accordance with the *California Electrical Code*. Construction plans and specifications shall include, but are not limited to, the following:
1. The type and location of the EVSE.
  2. A listed raceway capable of accommodating a 208/240-volt dedicated branch circuit.
  3. The raceway shall not be less than trade size 1 inch.
  4. The raceway shall originate at a service panel or a subpanel serving the area, and shall terminate in close proximity to the proposed location of the charging equipment and into a listed suitable cabinet, box, enclosure or equivalent.
  5. The service panel or subpanel shall have sufficient capacity to accommodate a minimum 40-



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### EXISTING TOPOGRAPHY

- = PROPERTY LINE
- = CENTERLINE
- = EASEMENT
- = PROPERTY CORNER FOUND AS NOTED
- = PROPERTY CORNER NOTHING FOUND OR SET
- △ = TEMPORARY BENCHMARK (SEE TBM LIST FOR INFO)
- = SWALE OR DRAINAGE FLOW
- = DRAINAGE FLOW
- = FENCE (TYPE NOTED)
- = TREE (SIZE/TYPE INDICATED)
- = SLOPE
- = CONTOUR
- = CONCRETE SURFACE
- = EDGE OF ASPHALT
- = EDGE OF BUILDING
- = SIGN
- = POST OR BOLLARD
- = GROUND ELEVATION
- = HARD SURFACE ELEVATION

### EXISTING UTILITIES

- = STORM DRAIN LINE (SIZE & DIRECTION OF FLOW)
- = STORM DRAIN LINE (RECORD INFORMATION)
- = STORM DRAIN LINE (UNDERGROUND LOCATING)
- = STORM DRAIN MANHOLE
- = STORM DRAIN CLEANOUT
- = DROP INLET
- = AREA DRAIN
- = RAIN WATER LEADER
- = DOWNSPOUT
- = SANITARY SEWER LINE (SIZE & DIRECTION OF FLOW)
- = SANITARY SEWER LINE (RECORD INFORMATION)
- = SANITARY SEWER LINE (UNDERGROUND LOCATING)
- = SANITARY SEWER MANHOLE
- = SANITARY SEWER CLEANOUT
- = WATER LINE (SIZE INDICATED)
- = WATER LINE (RECORD INFORMATION)
- = WATER LINE (UNDERGROUND LOCATING)
- = WATER MANHOLE
- = WATER VALVE
- = WATER METER
- = WATER BOX
- = IRRIGATION CONTROL VALVE
- = FIRE HYDRANT
- = BACKFLOW PREVENTER
- = SPRINKLER
- = HOSE BIBB
- OH - E --- = OVERHEAD ELECTRIC LINE
- E --- = UNDERGROUND ELECTRIC LINE
- E --- = UNDERGROUND ELECTRIC LINE (RECORD INFORMATION)
- E --- = UNDERGROUND ELECTRIC LINE (UNDERGROUND LOCATING)
- = ELECTRIC MANHOLE
- = UTILITY POLE (WITH GUY WIRE)
- = ELECTRIC METER
- = ELECTRIC BOX
- = STREET LIGHTING BOX
- OR X = LIGHT STANDARD
- = SIGNAL LIGHT
- CE --- = FLOOD LIGHT
- CO --- = ELECTRICAL OUTLET
- G --- = GAS LINE (SIZE INDICATED)
- G --- = GAS LINE (RECORD INFORMATION)
- G --- = GAS LINE (UNDERGROUND LOCATING)
- = GAS MANHOLE
- = GAS VALVE
- = GAS METER
- T --- = TELEPHONE LINE
- T --- = TELEPHONE LINE (RECORD INFORMATION)
- T --- = TELEPHONE LINE (UNDERGROUND LOCATING)
- = STORM DRAIN BOX
- = TRAFFIC SIGNAL BOX

### ABBREVIATIONS

NOTE: NOT ALL ABBREVIATIONS MAY BE USED ON THESE PLANS.

- AC = ASPHALTIC CONCRETE
- ACC = ACCESSIBLE
- ACU = AIR CONDITIONING UNIT
- AD = ASSESSOR'S PARCEL NUMBER
- ARV = AIR RELEASE VALVE
- BOM = BRASS CAP MONUMENT
- BFP = BACK FLOW PREVENTER
- BLK = BLOCK
- BLDG = BUILDING
- BOL = BOLLARD
- BOV = BLOW-OFF VALVE
- BR = BRICK
- B.W.F. = BARBED WIRE FENCE
- C = COMMUNICATION
- C/L = CABLE TELEVISION
- CATV = CAPPED IRON PIPE
- CL.F. = CHAIN LINK FENCE
- CMP = CORRUGATED METAL PIPE
- COL = COLUM
- CONC. = CONCRETE
- COND. = CONDENSATE
- CP = CONTROL POINT FOUND
- CPS = CONTROL POINT SET
- CS = CONCRETE SURFACE
- D = DEPTH
- DDC = DOUBLE DETECTOR CHECK VALVE
- DF = DRINKING FOUNTAIN
- DI = DECOMPOSED GRANITE
- DI = DROP INLET
- DI = DIAMETER
- DI = DRIVEWAY
- DS = DOWNSPOUT
- DWG = DRAWING
- E = ELECTRIC
- EP = EDGE OF PAVEMENT
- ESMT = EASEMENT
- EXT = EXISTING
- FA = FIRE ALARM
- FDC = FIRE DEPARTMENT CONNECTION
- FFE = FINISHED FLOOR ELEVATION
- FL = FIRE HYDRANT
- FL = FLOWING
- FO = FIBER OPTIC
- FS = FIRE SERVICE
- G = GRADE
- GB = GRADE BREAK
- GR = GROUND ROD BOX
- GRD = GROUND ROD
- GV = GAS VALVE
- HB = HOSE BIBB
- HBD = HEADER BOARD
- HP = HIGH PRESSURE
- HR = HANDRAIL
- HVE = HIGH VOLTAGE ELECTRIC
- HVE = HIGH VOLTAGE
- IC = IN CONCRETE
- ICV = IRRIGATION CONTROL VALVE
- INV = PIPE INVERT ELEVATION
- IRR = IRRIGATION
- JP = JOINT UTILITY POLE
- JT = JOINT TRENCH
- LNDG = LANDING
- LVE = LOW VOLTAGE ELECTRIC
- MH = METAL MANHOLE
- MS = MOW STRIP
- MSC = METAL STORAGE CONTAINER
- N/S = NOT TO SCALE
- OH = OVERHEAD
- OH = OVERHANG
- OP = OPEN IRON PIPE
- OSP = OLD STEEL POST HOLE
- P/L = PROPERTY LINE
- PA = PLANTER AREA
- PB = PARKING BUMPER
- PH = POSTHOLE
- PIV = POST INDICATOR VALVE
- PP = POWER POLE
- PRG = PARKING
- PUE = PUBLIC UTILITY EASEMENT
- PV = PAVERS
- PVC = POLYVINYL CHLORIDE
- R = ROBBERS
- RM = MANHOLE RM ELEVATION
- ROW = RIGHT OF WAY
- RP = REDUCED PRESSURE BACKFLOW PREVENTER
- RWALL = RETAINING WALL
- RWL = RAIN WATER LEADER
- SD = STORM DRAIN
- SDMH = STORM DRAIN MANHOLE
- SL = STREET LIGHT
- SLB = STREET LIGHT BOX
- SS = SANITARY SEWER
- SSCO = SANITARY SEWER CLEANOUT
- SSMH = SANITARY SEWER MANHOLE
- STL = STEEL
- T = TELEPHONE
- TBLL = TETHER BALL POLE
- TBM = TEMPORARY BENCHMARK
- TL = TOP OF CURB
- TL = TOP OF WALL
- TP = TELEPHONE POLE
- TRW = TOP OF RETAINING WALL
- UC = UNDERGROUND
- UNK = UNKNOWN
- VBALL = VOLLEYBALL
- W = WATER
- W/O = WITH
- WO = WITHOUT
- WF = WOOD FENCE
- W.F. = WROUGHT IRON FENCE
- W.F. = WOOD RAIL FENCE
- XFMR = TRANSFORMER
- XWALK = CROSSWALK

### TBM LIST

No.	DESCRIPTION	Northing	Easting	Elevation
1	CPS CHISELED "+"	5000.00	5000.00	100.00
2	CPS CHISELED "+"	5098.81	5021.13	100.45
3	CPS CHISELED "+"	5236.75	5051.04	100.10
4	CPS MAG NAIL	5035.35	4827.05	97.82
5	CPS CHISELED "+"	4983.72	5132.34	101.04
6	CPS CHISELED "+"	5115.14	5161.53	102.42
7	CPS CHISELED "+"	5215.06	5163.18	102.45
8	CPS MAG NAIL	5432.19	5171.45	99.34
9	CPS PICKER	5446.86	4977.07	94.69
10	CPS CHISELED "+"	5260.38	5241.84	102.78
11	CPS CHISELED "+"	5135.15	5265.18	102.52
12	CPS CHISELED "+"	5334.15	5288.05	99.91
13	CPS CHISELED "+"	4971.12	5246.98	102.53

### BASIS OF BEARINGS:

\*\*ASSUMED\*\*

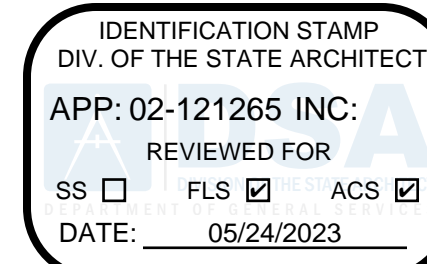
### F.E.M.A. INFORMATION:

THE SUBJECT PROPERTY IS LOCATED IN "ZONE X"--AREA OF MINIMAL FLOOD HAZARD" PER FLOOD INSURANCE RATE MAP 06067C0076H (PANEL NOT PRINTED) DATED AUGUST 16, 2012.

### NOTE:

EXISTING UTILITIES BASED ON VISIBLE SURFACE STRUCTURES ONLY.

dsa



architect



stamp



consultant



project number CA5602

project director

project designer

project architect

revisions

no. date revision

project status

DSA BACKCHECK

client / project

## OAK HILL ES HARDSHIP MODERNIZATION

3909 NORTH LOOP  
ANTELOPE, CA 95843

sheet name

## TOPOGRAPHIC SURVEY

sheet number

C0.1

plot date

5/15/2023 9:56 AM







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## DEMOLITION GENERAL NOTES

- IN THE EVENT THAT ANY UNUSUAL CONDITIONS NOT COVERED BY THE GEOTECHNICAL INVESTIGATION REPORT OR ARE ENCOUNTERED DURING GRADING OPERATIONS THE GEOTECHNICAL ENGINEER AND THE ENGINEER SHALL BE IMMEDIATELY NOTIFIED FOR DIRECTIONS.
- NO BURNING OR BLASTING SHALL BE PERMITTED.
- ADDITIONAL DEMOLITION INFORMATION MAY BE SHOWN ON THE GRADING, DRAINAGE, AND UTILITY PLANS, AND THOSE PLANS PREPARED BY OTHER DISCIPLINES FOR THIS PROJECT.
- ALL DEMOLISHED ITEMS SHALL BE DISPOSED OF OFFSITE AT A SUITABLE, LEGAL, DUMP SITE OR OTHER FACILITY.
- ALL DISPOSED OF MATERIALS SHALL BE RECYCLED IF POSSIBLE.
- THE TYPES, LOCATIONS, SIZES AND/OR DEPTHS OF EXISTING UNDERGROUND UTILITIES AS SHOWN IN THESE PLANS WERE OBTAINED FROM SOURCES OF VARYING RELIABILITY. THE CONTRACTOR IS CAUTIONED THAT ONLY ACTUAL EXCAVATION WILL REVEAL THE TYPES, EXTENT, SIZES, LOCATIONS, AND DEPTHS OF SUCH UNDERGROUND UTILITIES. A REASONABLE EFFORT HAS BEEN MADE TO LOCATE AND DELINEATE ALL KNOWN UNDERGROUND UTILITIES. HOWEVER, WARREN CONSULTING ENGINEERS CAN ASSUME NO RESPONSIBILITY FOR THE COMPLETENESS OR ACCURACY OF ITS DELINEATION OF SUCH UNDERGROUND UTILITIES, NOR FOR THE EXISTENCE OF OTHER BURIED OBJECTS OR UTILITIES WHICH MAY BE ENCOUNTERED BUT WHICH ARE NOT SHOWN ON THESE DRAWINGS. THE CONTRACTOR OR ANY SUBCONTRACTOR, FOR THIS CONTRACT SHALL NOTIFY THE DISTRICT TWO (2) WORKING DAYS IN ADVANCE OF PERFORMING ANY EXCAVATION WORK IN ORDER TO VERIFY TO THE GREATEST EXTENT POSSIBLE THE EXISTING UTILITY LINES, CONFLICTS AND PROPOSED UTILITY CONNECTION POINTS.
- THE SCHOOL DISTRICT SHALL HAVE SALVAGE RIGHTS TO ANY DEMOLISHED ITEMS SHOWN HEREON. THE CONTRACTOR SHALL GIVE THE DISTRICT NOTICE 7 DAYS PRIOR TO THE START OF DEMOLITION. THE DISTRICT SHALL MOVE ANY RETAINED ITEMS OUT OF THE CONTRACTORS WORK AREA, UNLESS ANOTHER ARRANGEMENT IS MADE WITH THE CONTRACTOR. ANY REMAINING ITEMS BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED FROM THE SITE. ANY ITEMS NOT SHOWN FOR REMOVAL SHALL REMAIN AND SHALL BE PROTECTED FROM DAMAGE DURING CONSTRUCTION TO A REASONABLE EXTENT.
- EXISTING UTILITY STRUCTURES IN AREAS OF NEW PAVING SHALL BE REMOVED AND REINSTALLED AT NEW GRADE UNLESS SPECIFICALLY NOTED OTHERWISE.
- ITEMS OUTSIDE THE LIMITS OF DEMOLITION SHALL REMAIN AND BE PROTECTED FROM DAMAGE DURING CONSTRUCTION.
- CONTRACTOR SHALL COMPLY WITH CHAPTER 33 OF THE 2019 CFC, "FIRE SAFETY DURING CONSTRUCTION AND DEMOLITION" AT ALL TIMES DURING CONSTRUCTION.
- CONTRACTOR SHALL HIRE A UTILITY LOCATING COMPANY AND SHALL SCAN THE ENTIRE AREA WITHIN THE LIMITS OF NEW WORK. ALL UTILITIES LOCATED SHALL BE MARKED AND PROTECTED DURING THE LIMITING OPERATIONS AS WELL AS ANY EXCAVATING TASKS. ANY LOCATED UTILITY DAMAGED WITHIN THE LIMITS OF WORK WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO REPAIR.
- ALL DEMOLITION SHALL BE APPROPRIATELY SUPPORTED AND REINFORCED DURING REMOVAL TO PREVENT INJURY FROM FALLING PROJECTILES OR OTHERWISE MOVING DEBRIS OR OTHER DELETERIOUS MATERIAL. ON-SITE SAFETY WITHIN THE LIMITS OF WORK IS THE CONTRACTORS SOLE RESPONSIBILITY.

## CAL-GREEN - Waste Diversion:

**5.408.1** Construction waste management. Recycle and/or salvage for reuse a minimum of 65 percent of the nonhazardous construction and demolition waste in accordance with Section 5.408.1.1, 5.408.1.2 or 5.408.1.3, or meet a local construction and demolition waste management ordinance, whichever is more stringent.

**5.408.1.1** Construction waste management plan. Where a local jurisdiction does not have a construction and demolition waste management ordinance that is more stringent, submit a construction waste management plan that:

- Contractor shall identify the construction and demolition waste materials to be diverted from disposal, to comply with 65% criteria listed above, by efficient usage, recycling, reuse on the project or salvage for future use or sale.
- Contractor shall determine if construction and demolition waste materials will be sorted on-site (source-separated) or bulk mixed (single stream). Either method is the responsibility of the contractor.
- Contractor shall identify diversion facilities where construction and demolition waste material collected will be taken. Transport to such facilities is contractors responsibility.
- Contractor shall record and provide record of the amount of construction and demolition waste materials diverted shall be calculated by weight or volume, but not by both.

**5.408.1.2** Waste management company. Utilize a waste management company that can provide verifiable documentation that the percentage of construction and demolition waste material diverted from the landfill complies with this section.

Contractor shall make the determination if the construction and demolition waste material will be diverted by a waste management company. Contractor shall make any and all arrangements with waste management company for pickup of materials.

**Exceptions to Sections 5.408.1.1 and 5.408.1.2:**

- Excavated soil and land-clearing debris.
- Alternate waste reduction methods developed by working with local agencies if diversion or recycle facilities capable of compliance with this item do not exist.
- Demolition waste meeting local ordinance or calculated in consideration of local recycling facilities and markets.

**5.408.1.3** Waste stream reduction alternative. The combined weight of new construction disposal that does not exceed two pounds per square foot of building area may be deemed to meet the 65 percent minimum requirement as approved by the enforcing agency.

## CAL-GREEN - Waste Diversion Documentation Required:

(Ref Calgreen 5.408.1.4)

Contractor shall prepare and provide documentation to the enforcing agency which demonstrates compliance with Calgreen Sections 5.408.1.1 through 5.408.1.3. The waste management plan shall be updated as necessary and shall be accessible during construction for examination by the enforcing agency.

### Notes:

- Sample forms found in "A Guide to the California Green Building Standards Code (Nonresidential)" located at <http://www.bsc.ca.gov/formalCA-Green>. These may be used to assist in documenting compliance with the waste management plan.
- Mixed construction and demolition debris (C&D) processors can be located at the California Department of Resources Recycling and Recovery (CalRecycle).

## CAL-GREEN - Excavated Soil & Land Clearing:

**5.408.3** Excavated soil and land clearing debris. 100 percent of trees, stumps, rocks and associated vegetation and soils resulting primarily from land clearing shall be reused or recycled. For a phased project, such material may be stockpiled on site until the storage site is developed.

**Exception:** Reuse, either on- or off-site, of vegetation or soil contaminated by disease or pest infestation.

### Notes:

- If contamination by disease or pest infestation is suspected, contact the County Agricultural Commissioners and follow its direction for recycling or disposal of the material.
- For a map of known pest and/or disease quarantine zones, consult with the California Department of Food and Agriculture. ([www.cdffa.ca.gov](http://www.cdffa.ca.gov))

## GRAPHIC SCALE



THIS DRAWING MAY HAVE BEEN ENLARGED OR REDUCED.

## ADDITIONAL DEMOLITION

THIS IS NOT AN ALL-INCLUSIVE DEMOLITION PLAN. ADDITIONAL DEMOLITION MAY BE SHOWN ON THE ARCHITECTURAL PLANS AND OTHER PLANS AS PART OF THIS SET.

## DEMOLITION NOTES

AND/OR  
LEGEND **DEMOLITION NOTES**

- REMOVE ALL PLANTS, SHRUBS, EXISTING VEGETATION. REFER TO EARTHWORK SPECIFICATIONS FOR ADDITIONAL SITE CLEARING REQUIREMENTS. SEE LANDSCAPE PLANS FOR IRRIGATION DEMOLITION AND INSTALLATION. SEE GENERAL IRRIGATION NOTE, THIS SHEET.
- REMOVE EXISTING CONCRETE PAVING AND BASE AGGREGATES (IF EXIST). WHERE SAWCUTS ARE NECESSARY, THEY SHALL BE A NEAT STRAIGHT LINE. CUT SHALL BE MADE AT NEAREST EXISTING JOINT TO LOCATION SHOWN.
- SAWCUT AND REMOVE EXISTING ASPHALT PAVING AND BASE AGGREGATE TO PROVIDE FOR NEW CONSTRUCTION. SAWCUTS SHALL BE NEAT AND STRAIGHT. MAINTAIN CLEAN STRAIGHT CUT EDGE UNTIL NEW PAVING PLACED, OR NEW CUTS WILL BE REQUIRED.
- REMOVE EXISTING CONCRETE CURB/CURB GUTTER.
- EXISTING TREE TO REMAIN AND BE PROTECTED FROM DAMAGE. PROVIDE PROTECTIVE FENCING IF NEEDED, WHEN IMMEDIATELY ADJACENT TO EQUIPMENT TRAFFIC. STRAP 2x4'S VERTICALLY AT 8" O.C. AROUND TRUNK, FROM 12" ABOVE GRADE TO 6' FEET ABOVE GRADE TO PROTECT TREE BARK FROM EQUIPMENT DAMAGE.
- REMOVE EXISTING TREE AND ROOTS. IF SMALL ROOTS OR ROOT FRAGMENTS REMAIN (>1/2" IN DIA.), CONTRACTOR TO REMOVE BY HAND IF NECESSARY. BACKFILL VOID PER GRADING SPECIFICATIONS. IT IS HIGHLY RECOMMENDED WET AND DRY UTILITIES BE READY TO SHUTOFF SHOULD A ROOT DAMAGE A LINE DURING TREE REMOVAL.
- REMOVE EXISTING FENCING AND OR GATES AS SHOWN. REMOVAL TO INCLUDE ALL POSTS AND CONCRETE BASES. BACKFILL WITH CLASS II AB IN 6" LIFTS, EACH COMPACTED TO 95%. FENCE TYPES MAY VARY.
- REMOVE AND SALVAGE EXISTING BENCHES. PLACE AT NEW LOCATION ONSITE PER ARCH. PLANS.
- REMOVE EXISTING COBBLE/PAVER SURFACING AND BASE MATERIAL.
- EXISTING IRRIGATION VALVE TO REMAIN. REMOVE EXISTING BOX AND REPLACE WITH TRAFFIC RATED VALVE BOX WITH STEEL LID, OLD CASTLE B1017 OR APPROVED EQUAL. VALVES, LINES WIRES, ETC. TO REMAIN. REFER TO LANDSCAPE AND IRRIGATION PLANS FOR ADDITIONAL INFO.
- REMOVE EXISTING UTILITY VAULT/BOX. PROTECT UTILITIES FROM DAMAGE. PROVIDE NEW TRAFFIC RATED BOX WITH STEEL LID, SIZE AS NEEDED FOR UTILITY, OLD CASTLE B1017, B1324, OR B1730 OR APPROVED EQUAL. SET NEW BOX FLUSH WITH FINISHE GRADE. SEE GRADING PLAN AND UTILITY PLANS FOR ADDITIONAL INFO.
- REMOVE EXISTING DRAIN INLET. SEE DRAINAGE PLAN FOR NEW SYSTEMS.
- ADJUST EXISTING MANHOLE OR DRAIN STRUCTURE TO PROPOSED FINISHED GRADE. SEE GRADING PLAN.
- EXISTING UTILITY VAULT/BOX TO REMAIN. ADJUST TO FINISHED GRADE AS NEEDED.
- REMOVE EXISTING WATER FOUNTAIN.
- REMOVE EXISTING PIPE BOLLARD AND FOOTING.

## DUST CONTROL

CONTRACTOR SHALL PROVIDE DUST CONTROL MEASURES AT ALL TIMES WHEN A SITE CONSTRUCTION ACTIVITY MAY GENERATE AIRBORNE DUST, INCLUDING BUT NOT LIMITED TO, APPLICATION OF WATER, HAUL TRUCK COVERS, STOCKPILE COVERS, STRAW MULCH, APPROVED SOIL STABILIZATION CHEMICALS/ADHESIVES, RETAINED VEGETATION, HYDROSEED, ETC. REFER TO CONTRACTORS SWPPP, PROJECT SPECIFICATION SECTION 31 TO 00, 1.08.

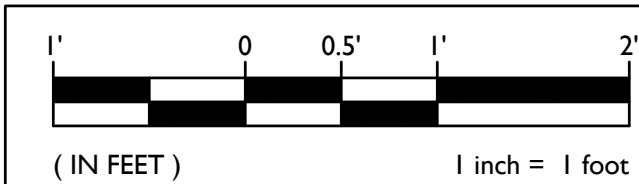
## UTILITY VERIFICATION NOTE

PRIOR TO THE START OF CONSTRUCTION, VERIFY AND POT HOLE ALL UTILITY POINTS OF CONNECTION FOR LOCATION, DEPTH, AND SIZE. IF CONFLICT IS FOUND, CONTACT THE ENGINEER IMMEDIATELY FOR DIRECTION.

## CONCRETE SAWCUT NOTE

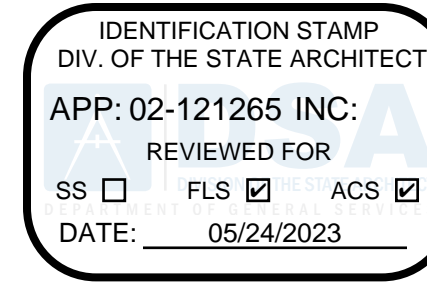
SAWCUTS AND SUBSEQUENT PATCH BACK OF CONCRETE WALKS, SHALL BE TO THE EXISTING CONCRETE JOINT BEYOND NEAREST THE LOCATION OF DEMOLITION AS SHOWN. A REASONABLE EFFORT HAS BEEN MADE TO LOCATE, SHOW AND COORDINATE WITH EXISTING JOINTS, HOWEVER IF FIELD CONDITIONS ARE OTHERWISE, IT IS UNDERSTOOD TO REMOVE AND PATCH BACK TO THE NEAREST JOINTS BEYOND DEMOLITION.

## GRAPHIC SCALE



THIS DRAWING MAY HAVE BEEN ENLARGED OR REDUCED.

dsa



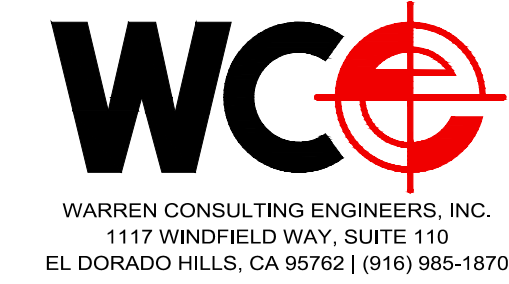
architect



stamp



consultant



project number CA5602

project director

project designer

project architect

revisions

no.

date

revision

project status

DSA BACKCHECK

client / project

## OAK HILL ES HARDSHIP MODERNIZATION

3909 NORTH LOOP  
ANTELOPE, CA 95843

sheet name

## DEMOLITION PLAN

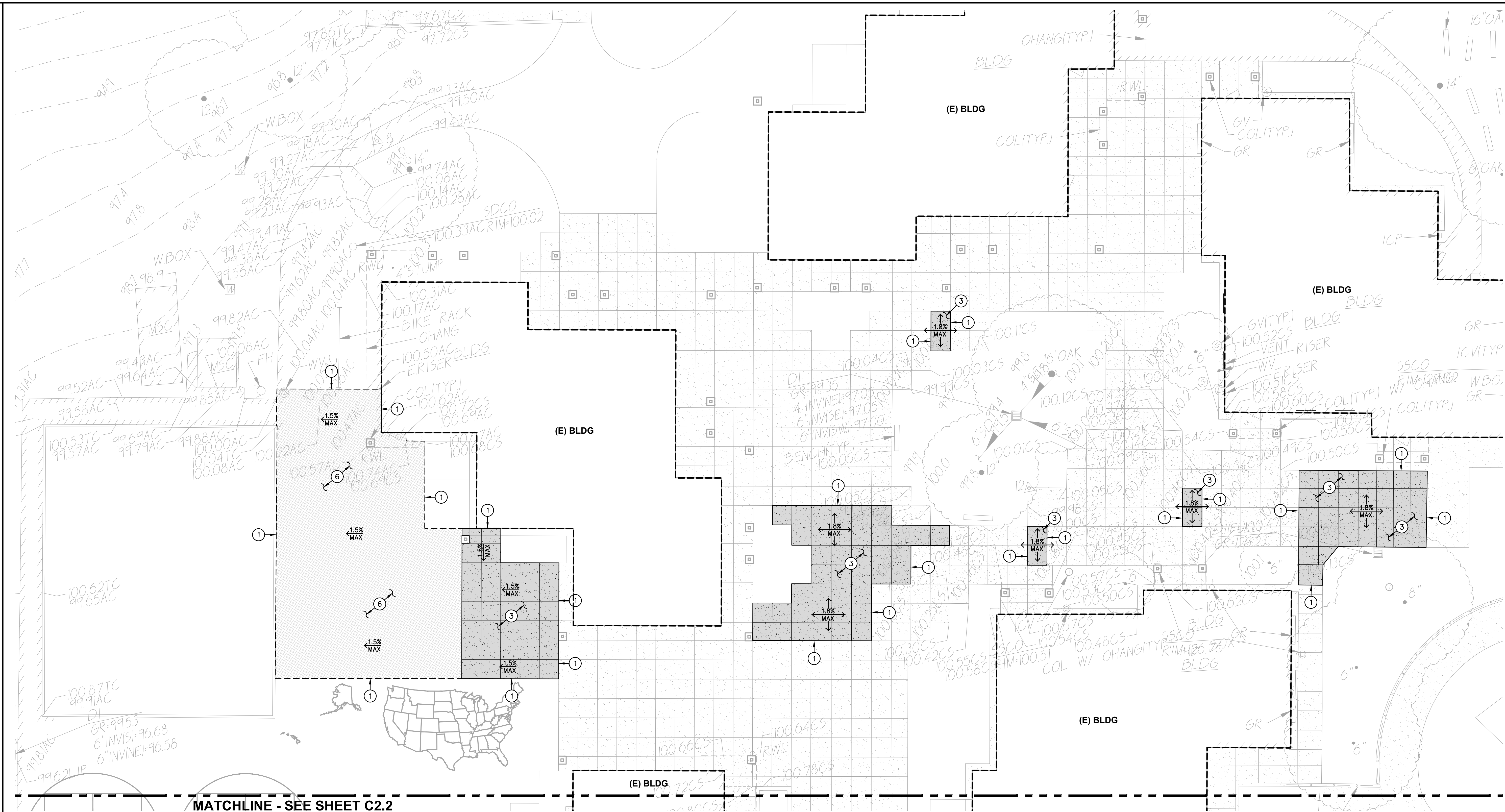
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







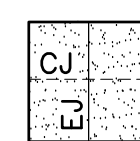
1	GRADING PLAN
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SCALE 1" = 10'-0"

LEGEND (H) CONSTRUCTION NOTES

NOT ALL NOTES MAY BE USED ON THIS SHEET









1. MATCH EXISTING GRADE/ELEVATION. WHEN MATCHING NEW SLABS TO EXISTING, DOWEL SLABS PER THE DETAIL PROVIDED AT 24" O.C. 
2. MATCH NEW CONCRETE FLATWORK ELEVATION TO DOORWAY THRESHOLD PER THE ARCHITECTURAL THRESHOLD DETAILS. TRANSITION SHALL NOT EXCEED 1/4", OR 1/2" WITH APPROPRIATE TAPER.
3. PLACE CONCRETE PAVING PER THE TYPICAL DETAILS PROVIDED. REFER TO PAVING PLAN FOR SECTIONS. REFER TO SPECIFICATIONS SECTION 31 00 00 FOR SUBGRADE PREPARATION, SECTION 32 00 00 FOR CONCRETE PAVING. 
4. CONSTRUCT CONCRETE CURB PER THE DETAIL PROVIDED. 
5. CONSTRUCT FLUSH CONCRETE CURB PER THE DETAIL PROVIDED. 
6. ASPHALT PAVING. REFER TO PAVING PLAN FOR SECTIONS. REFER TO SPECIFICATIONS SECTION 32 12 00 FOR MATERIALS AND CONSTRUCTION. REFER TO SECTION 31 00 00 FOR SUBGRADE PREPARATION.
7. REMOVE EXISTING UTILITY BOX AND INSTALL NEW TRAFFIC RATED UTILITY BOX OF SAME SIZE AND APPROPRIATE FOR UTILITY. SET NEW BOX FLUSH WITH PROPOSED FINISHED GRADE. WHEN IN NEW CONCRETE AREAS, ALIGN WITH NEW JOINT PATTERNS WHEN POSSIBLE. ADJUSTABLE BOXES: OLD CASTLE 6107, B1234, OR B1730 OR APPROVED EQUAL. MARK FOR UTILITY.
8. SEE ARCH. PLANS FOR NEW FENCING.
9. NEW LANDSCAPING AREA. PREPARE SUBGRADE, PLACE TOPSOIL WITH AMENDMENTS (AS REQUIRED) AND PROVIDE NEW PLANTING AND IRRIGATION AS SHOWN ON LANDSCAPE DRAWINGS. SEE LANDSCAPE DRAWINGS FOR ADDITIONAL INFORMATION.
10. PATCH BACK EXISTING LANDSCAPING AND IRRIGATION ALONG EDGES OF WORK TO MATCH EXISTING CONDITIONS. REPAIR ALL LATERALS AND REPLACE OR RELOCATE HEADS AS NEEDED FOR COVERAGE. PROVIDE NEW SOD IN LAWN AREAS, OVER AMENDED AND PREPARED SOIL. SEE LANDSCAPE PLANS FOR ADDITIONAL INFO. IF NO LANDSCAPING EXISTING OR PROPOSED, PROVIDE EROSION HYDROSEED AT MINIMUM.



## # DRAINAGE NOTES

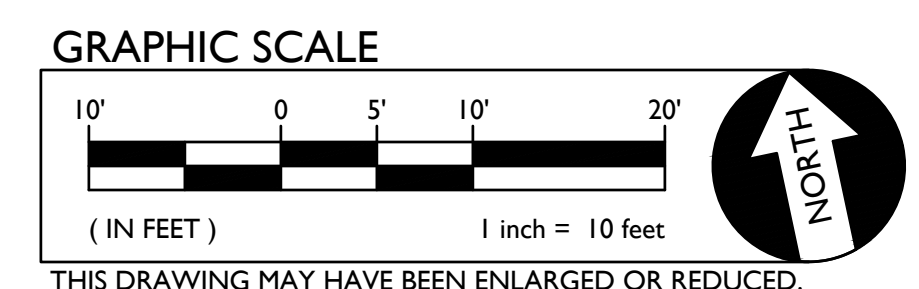
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NOT ALL NOTES MAY BE USED ON THIS SHEET

30. CONSTRUCT DRAIN INLET PER THE DETAIL PROVIDED. 
31. CONSTRUCT AREA DRAIN PER THE DETAIL PROVIDED. 
32. PROVIDE AND INSTALL 4" STORM DRAIN, PVC, SDR-35, OR APPROVED EQUAL. SLOPE SHALL BE 0.015 MIN. (1.5%) UNLESS SPECIFICALLY NOTED OTHERWISE.  
33. PROVIDE AND INSTALL 6" STORM DRAIN, PVC, SDR-35, OR APPROVED EQUAL. SLOPE SHALL BE 0.010 MIN. (1.0%) UNLESS SPECIFICALLY NOTED OTHERWISE.  
34. CONSTRUCT PLANTER DRAIN PER THE DETAIL PROVIDED. 
35. CONSTRUCT 24" MANHOLE PER THE DETAIL PROVIDED. 
36. CONNECT TO EXISTING STORM DRAIN. PROVIDE ALL PIPE, FITTINGS, COUPLERS AND ADAPTORS NEEDED TO MAKE CONNECTION. POTHOLE TO VERIFY EXISTING LINE LOCATION, DEPTH AND CONDITION PRIOR TO TRENCHING.

## PAVEMENT SLOPE AT BUILDINGS

IN ADDITION TO THE MAXIMUM SLOPES SHOWN, PAVING WITHIN 5 FEET OF BUILDING SHALL SLOPE AT LEAST 1% AWAY FROM BUILDING. GRADES HAVE BEEN DESIGNED TO PROVIDE AT LEAST THIS MINIMUM SLOPE, HOWEVER, CONTRACTOR SHALL VERIFY IN FIELD PRIOR TO POURING.



THIS DRAWING MAY HAVE BEEN ENLARGED OR REDUCED.

IDENTIFICATION STAMP  
DIV. OF THE STATE ARCHITECT  
APP: 02-121265 INC:  
REVIEWED FOR  
SS ☐ FLS ☒ ACS ☒  
DATE: 05/24/2023

## Direct

ACMARTIN

3009 DOUGLAS BLVD SUITE 290  
ROSEVILLE CA 95661 T 916 772 1800

mp



resultant



WARREN CONSULTING ENGINEERS, INC.  
1117 WINDFIELD WAY, SUITE 110  
EL DORADO HILLS, CA 95762 | (916) 985-1870

project number CA5602

project director -

project designer -

project architect -

regions

[illegible]

ject status

## SA BACKCHECK

ent / project

## DAK HILL ES HARDSHIP MODERNIZATION

909 NORTH LOOP  
NTELOPE, CA 95843

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## GRADING PLAN

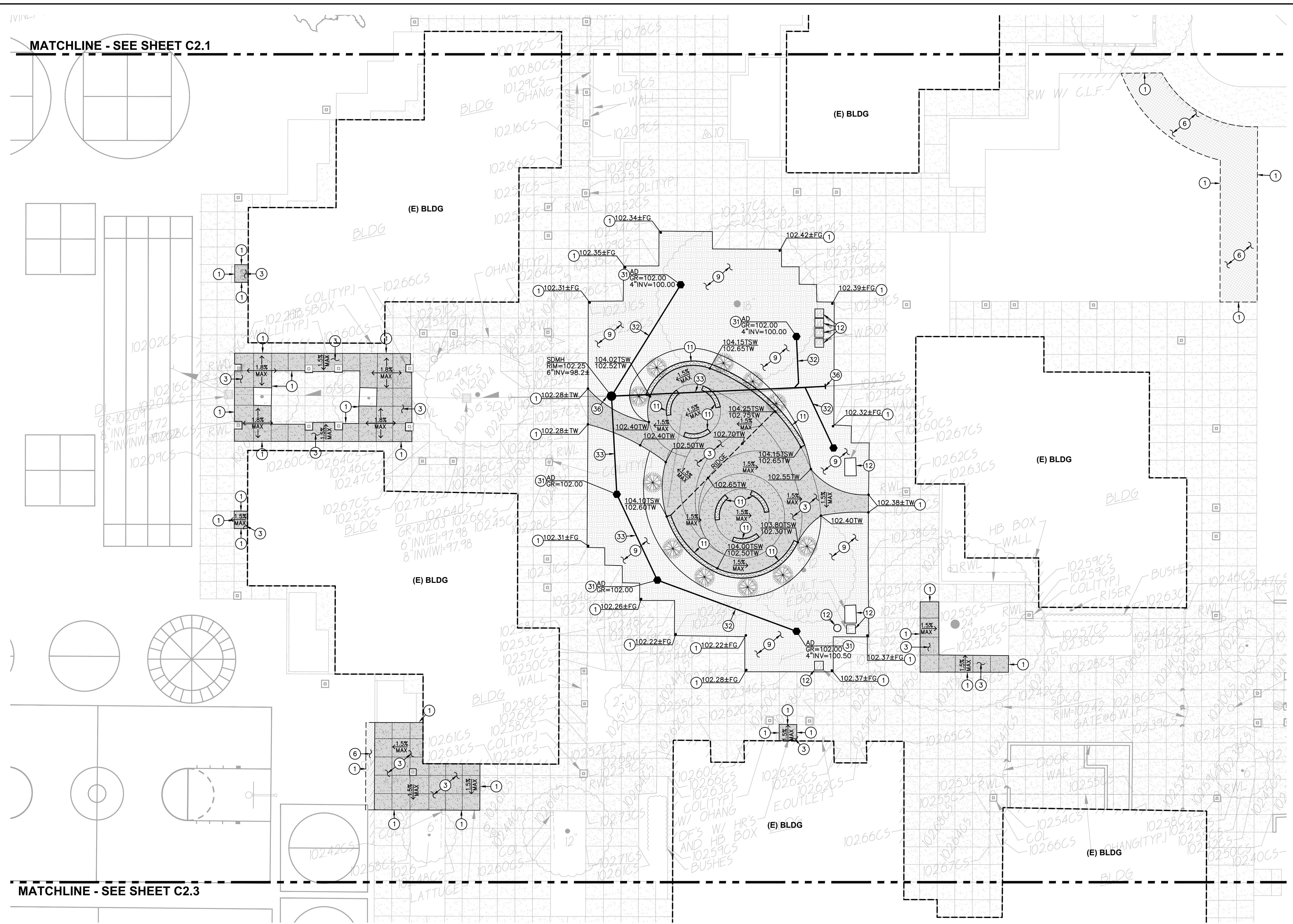
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SCALE 1" = 10'-0"

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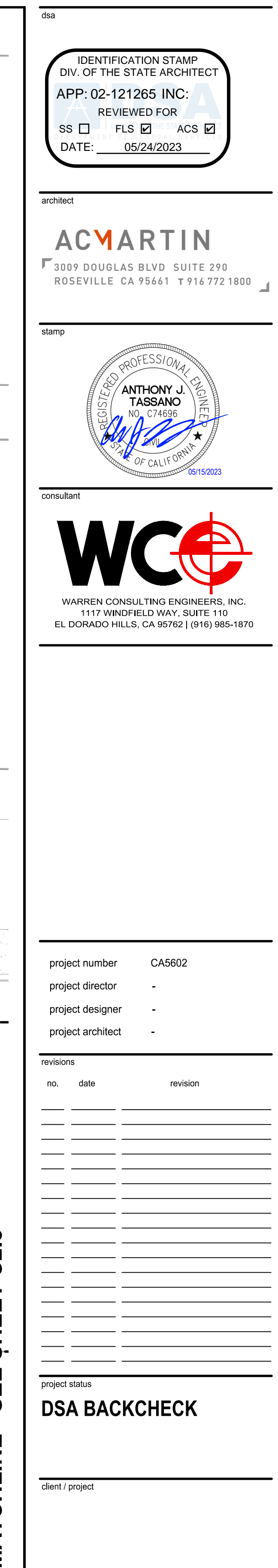
IN ADDITION TO THE MAXIMUM SLOPES SHOWN, PAVING WITHIN 5 FEET OF BUILDING SHALL SLOPE AT LEAST 1% AWAY FROM BUILDING. GRADES HAVE BEEN DESIGNED TO PROVIDE AT LEAST THIS MINIMUM SLOPE, HOWEVER, CONTRACTOR SHALL VERIFY IN FIELD PRIOR TO POURING.



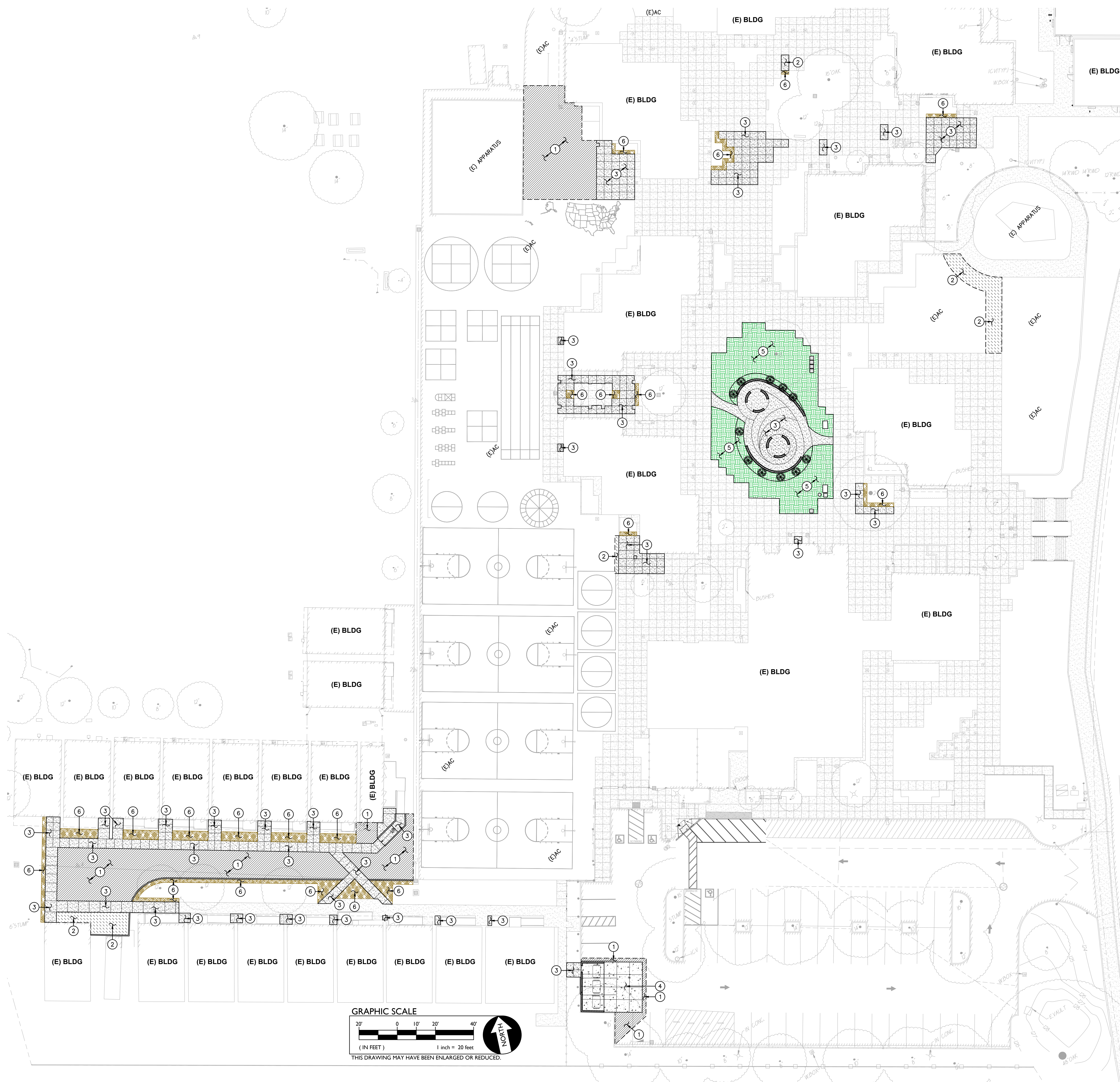
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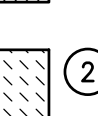





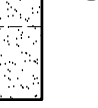
## PAVING GENERAL NOTES:

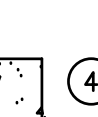
1. ASPHALT MIX SHALL MEET CALTRANS SPECIFICATIONS FOR TYPE B ASPHALTIC CONCRETE. REFERENCE CALTRANS SPECIFICATION SECTION 39, AND PROJECT SPECIFICATIONS
2. AGGREGATE BASE SHALL MEET CALTRANS SPECIFICATIONS FOR CLASS II AGGREGATE BASE. REFERENCE CALTRANS SPECIFICATION SECTION 26, AND PROJECT SPECIFICATIONS
3. ALL AGGREGATE BASE SHALL BE MOISTURE CONDITIONED TO, OR SLIGHTLY ABOVE, OPTIMUM MOISTURE CONTENT AND COMPACTED TO 95% RELATIVE COMPACTION.
4. RECYCLED ASPHALT MAY BE USED AS CONCRETE AND ASPHALT BASE MATERIAL PROVIDED IT MEETS CALTRANS SPECIFICATIONS FOR CLASS II AB. REFERENCE CALTRANS SPECIFICATION SECTION 26-1.02A.
5. PAVEMENT SUBGRADE PREPARATION, I.E. SCARIFICATION, MOISTURE CONDITIONING, LIME TREATMENT (IF USED), AND COMPACTION SHALL BE PERFORMED AFTER THE INSTALLATION OF UNDERGROUND UTILITIES AND TRENCHES BACKFILLED IN ACCORDANCE WITH THESE PLANS.
6. ALL AREAS DISTURBED BY GRADING, DEMOLITION, OR CONSTRUCTION ACCESS, WHICH ARE NOT SURVEYED BY THIS DIVISION, IF CONTROLS CHECKED, SHALL BE SEEDING WITH EROSION CONTROL TYPE NON-WATERED SEED MIX. REFER TO EROSION CONTROL SPECIFICATIONS FOR ACCEPTABLE SEED MIXES.
7. ALL NEW ASPHALT PAVING SHALL RECEIVE SEALCOAT, 2 COATS MIN. REFER TO PROJECT SPECIFICATIONS. CONTRACTOR SHALL ALLOW FOR 30 DAYS MIN. OF ASPHALT PAVEMENT CURING PRIOR TO CALCULATING PAVEMENT. CONTRACTOR SHALL SUBMIT PROPOSAL FOR SEALING. CONTRACTOR WILL PROVIDE, AT HIS COST, TEMPORARY STRIPING, TEMPORARY STRIPING SHALL BE IN PLACE DURING CONSTRUCTION. CONTRACTOR SHALL ACCENT STRIPING. CONTRACTOR SHALL COORDINATE THIS WORK WITH THE OWNER/DISTRICT.
8. REFER TO GRADING PLANS FOR CURBS, CURB GUTTERS, VALLEY GUTTERS, AND OTHER CONCRETE STRUCTURES AND PAVING FEATURES NOT SPECIFICALLY NOTED ON THIS PLAN.


### PAVING LEGEND

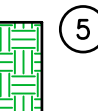
-  **① TYPE 1 PAVING – GENERAL TRAFFIC & FIRE LANS**  
 PLACE **3"** AC OVER **12"** CLASS II AB OVER SUBGRADE PREPARED IN ACCORDANCE WITH SPECIFICATION SECTION 31 00 00, ASPHALT PER SPECIFICATION SECTION 32 12 00. PROVIDE SEALCOAT PER SPECIFICATIONS, 2 COATS.

 **② TYPE 2 PAVING – LIGHT TRAFFIC & HARDCOURTS**  
 PLACE **2.5"** AC OVER **6"** CLASS II AB OVER SUBGRADE PREPARED IN ACCORDANCE WITH SPECIFICATION SECTION 31 00 00, ASPHALT PER SPECIFICATION SECTION 32 12 00. PROVIDE SEALCOAT PER SPECIFICATIONS, 2 COATS.

 **③ TYPE 3 PAVING:**  
 PLACE **5"** PC OVER **4"** CLASS II AB OVER SUBGRADE PREPARED IN ACCORDANCE WITH SPECIFICATION SECTION 31 00 00. CONCRETE PER SECTION 32 16 00 AND REINFORCED WITH #4 REBAR AT 18" O.C.E.W. REFER ALSO TO DETAILS PROVIDED.

 **④ TYPE 4 PAVING:**  
 PLACE **5"** PC OVER **6"** CLASS II AB OVER SUBGRADE PREPARED IN ACCORDANCE WITH SPECIFICATION SECTION 31 00 00. CONCRETE PER SECTION 32 16 00 AND REINFORCED WITH #4 REBAR AT 12" O.C.E.W. REFER ALSO TO DETAILS PROVIDED.

 **⑤ TYPE 5 SURFACING**  
 PLACE 12" LAYER AMENDED NATIVE OR AMENDED IMPORTED TOPSOIL FOR NEW LANDSCAPING. TOPSOIL SHALL BE IN ACCORDANCE WITH THE LANDSCAPE SPECIFICATIONS. PLACE IN LIFTS NOT EXCEEDING 12" IN UNCOMPACTED THICKNESS AND COMPACT TO DESIRED RELATIVE COMPACTION UNTIL TOPSOIL SUBGRADE IS ACHIEVED. SUBGRADE SHALL BE PLACED AND COMPACTED PER SPECIFICATION SECTION 31 00 00. REFER TO LANDSCAPE PLANS FOR IRRIGATION AND PLANTING. ANY ENCROACHING LINE TREATMENT NEEDS TO BE EXCAVATED TO AT LEAST 12" DOWN FROM FG AND BACKFILLED WITH COMPACTED NATIVE TOPSOIL MATERIAL.

 **⑥ TYPE 6 SURFACING**  
 PATCH BACK EXISTING LANDSCAPING AND IRRIGATION. REPLACE AND/OR RELOCATE HEADS AS NEEDED TO PROVIDE PROPER COVERAGE. NO IRRIGATION REQUIRED IF NONE EXISTING. PROVIDE EROSION CONTROL HYDROSEED IF NO EXISTING LANDSCAPING/PLANTING.











1. COMPOSITE SHEET SHEET, PROPOSED IMPROVEMENTS SHOWN ON DRAWINGS ARE SUPERIMPOSED ON A COMPOSITE SHEET. THE COMPOSITE SHEET IS A COMPILATION OF ARCHITECTURAL, ENGINEERING, AND OTHER DATA THAT IS PROVIDED. THE LANDSCAPE ARCHITECT SHALL NOT BE HELD LIABLE FOR CHANGES, INACCURACIES, OMISSIONS, OR ERRORS PERTAINING TO THE COMPOSITE SHEET. CONTRACTOR SHALL BE RESPONSIBLE FOR REVIEWING THESE DRAWINGS AND DISCREPANCIES MUST BE BROUGHT TO THE ATTENTION OF THE DESIGN TEAM AND RESOLVED PRIOR TO CONTINUATION OF WORK.
2. DESIGN SERVING SITE WORK ON PLANS HAS BEEN FURNISHED BY WATER COMPANY OR WATER DISTRICT. SERVICE SITE, VERIFY PRESSURE ON-SITE PRIOR TO THE INSTALLATION OF ANY SPRINKLER IRRIGATION EQUIPMENT. IF THERE ARE DISCREPANCIES, NOTIFY OWNER OR REPRESENTATIVE IMMEDIATELY. IN WRITING, NO ADJUSTMENTS CAN BE MADE BY LANDSCAPE ARCHITECT. FAILURE TO REPORT DISCREPANCIES AND CONTINUANCE OF WORK WILL RESULT IN ALL RE-DESIGN COSTS BEING CHARGED TO CONTRACTOR.
3. DETERMINE LOCATION OF UNDERGROUND UTILITIES. DAMAGE CAUSED BY INSTALLATION OF THIS WORK SHALL BE REPAIRED TO SATISFACTION OF GOVERNING AGENCY OR OWNER AT NO ADDITIONAL COST TO THE CONTRACT.
4. SPRINKLER OVER SPRAY SHALL NOT BE ALLOWED ON PUBLIC SIDEWALKS, BUILDING WALLS OR FENCES. MINIMUM OVERSPRAY MAY OCCUR IN PARKING AREAS. USE ADJUSTABLE NOZZLES WHENEVER POSSIBLE TO CONTROL SPRINKLER OVERSPRAY.
5. ALL LOCAL CODES AND ORDINANCES SHALL BE COMPLIED WITH. IF THERE IS A CONFLICT, NOTIFY OWNER'S REPRESENTATIVE IMMEDIATELY.
6. TESTING:
  - A. PRESSURE TEST ALL UNDERGROUND PIPING AS FOLLOWS:
    - 1. LATERAL LINES - AT STATIC PSI FOR 2 HOURS.
  - B. COVERAGE TEST:
    - NOTE: PRIOR TO REQUESTING COVERAGE TEST, INSURE ALL HEADS ARE SET PLUMB, NOZZLES ARE ADJUSTED PROPERLY, AND SYSTEM HAS BEEN TESTED FOR AUTOMATION.
    - REQUEST OWNER'S REPRESENTATIVES PRESENCE ON-SITE WHEN SPRINKLER SYSTEM IS COMPLETELY INSTALLED AND FULLY AUTOMATIC. PROVIDE ADEQUATE PERSONNEL AT THIS MEETING TO ASSIST AND PROTECT THE SYSTEM TO SATISFACTION OF OWNER'S REPRESENTATIVE.
7. LAYOUT ALL WORK PRIOR TO TRENCHING OPERATIONS TO DETERMINE IF MINOR MODIFICATIONS OR ADJUSTMENTS WILL BE REQUIRED.
8. INSTALL ALL SPRINKLER HEADS PERPENDICULAR TO SLOPES OR GRADE.
9. COORDINATE ALL WORK WITH OTHER TRADES SO PROGRESS OF WORK IS NOT INTERRUPTED AND CAN BE COMPLETED IN A TIMELY MANNER.
10. NO PLANTING SHALL BE STARTED UNTIL ALL SPRINKLER WORK HAS BEEN TESTED AND APPROVED IN PRESENCE OF OWNER'S REPRESENTATIVE.
11. FOR LANDSCAPE IRRIGATION INSTALLATION DETAILS, SEE SHEET NO. LA.1.

1. PRIOR TO START OF CONSTRUCTION CONTRACTOR REQUIRED TO CONTACT IVAN CALHOUN WITH CENTER UNIFIED SCHOOL DISTRICT TO SET UP A MEETING ON SITE TO OPERATE THE EXISTING SPRINKLER IRRIGATION SYSTEM AND DEMONSTRATE THE SPECIFICATIONS THAT ARE TO BE MADE TO THE EXISTING SYSTEM TO ACCOMMODATE FOR THE NEW CONSTRUCTION.
2. CONTRACTOR TO OPERATE AND PROGRAM EXISTING SPRINKLER IRRIGATION SYSTEM THAT IS TO REMAIN IN ORDER TO PROVIDE WATER TO THE EXISTING LANDSCAPE TO REMAIN.
3. CONTRACTOR TO REMOVE ALL EXISTING PIPE AND SPRINKLER HEADS WHEN THEY ARE IN NEW PLANTING AREAS.
4. CONTRACTOR TO RESTORE AND REPAIR ANY EXISTING SPRINKLER IRRIGATION SYSTEM OR EXISTING LANDSCAPE WHICH IS IN AREAS TO REMAIN THAT IS DAMAGED BY NEW WORK.
5. ALL WORK TO EXISTING SPRINKLER IRRIGATION SYSTEM TO BE COMPLETED PRIOR TO SITE DEMOLITION.

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THIS AREA CONTAINS EXISTING LAWN ROTORS. PLUMB AND LEVEL ALL EXISTING HEADS AND ENSURE HEAD-TO-HEAD COVERAGE WITH THE NEW HUNTER MP3000 POP-UP SPRAY HEADS PRIOR TO INSTALLING SOD.

EXISTING VALVE TO BE REMOVED.  
EXTEND NEW CONTROL WIRES AND  
MAINLINE TO NEW VALVE LOCATION.  
WIRE SPLICES SHALL BE HOUSED IN A  
NEW VALVE BOX. REPAIR TRENCH  
AREA TO LIKE-NEW CONDITIONS.  
VERIFY LOCATION OF VALVE AND  
MAINLINE SIZE ON-SITE.

REMOVE THE EXISTING AUTOMATIC CONTROL VALVES THAT IRRIGATE THE EXISTING LAWN IN THIS AREA, AND REPLACE WITH NEW AUTOMATIC DRIP IRRIGATION VALVES. CONTRACTOR TO VERIFY EXACT LOCATIONS ON SITE. ADDITIONAL VALVES LOCATED IN THIS AREA OPERATE PLANTING BEDS THAT ARE TO REMAIN. THESE VALVES SHALL REMAIN OPERATIONAL THROUGHOUT CONSTRUCTION.

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IRRIGATION SCHEDULE TABLE																																																												
STATION #/HYDROZONE	PLANT WATER USE TYPE	PLANT FACTOR (PF)	IRRIGATION TYPE	FLOW (GPM)	PRECIP. RATE (PR) INCH/HR	IRRIGATION EFFICIENCY (IE)	SOIL TYPE	ROOT DEPTH	SLOPE	EXPOSURE	MAINTENANCE PERIOD (X/Y Z GAL)																																																	
											JANUARY		FEBUARY		MARCH		APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER		OCTOBER		NOVEMEBER		DECEMBER																											
1	SHRUB - LOW	0.3	SUBSURFACE DRIP	0.0	0.50	0.81	SANDY LOAM	12-24"	0-5%	FULL SUN	0 / 1	0 GAL	0 / 1	0 GAL	5 / 1	0 GAL	20 / 2	0 GAL	21 / 3	0 GAL	17 / 5	0 GAL	19 / 5	0 GAL	16 / 5	0 GAL	19 / 3	0 GAL	31 / 1	0 GAL	0 / 1	0 GAL	0 / 1	0 GAL																										
2	SHRUB - LOW	0.3	SUBSURFACE DRIP	0.0	0.50	0.81	SAND	12-24"	0-5%	FULL SUN	0 / 1	0 GAL	0 / 1	0 GAL	5 / 1	0 GAL	20 / 2	0 GAL	21 / 3	0 GAL	17 / 5	0 GAL	19 / 5	0 GAL	16 / 5	0 GAL	19 / 3	0 GAL	31 / 1	0 GAL	0 / 1	0 GAL	0 / 1	0 GAL																										
3	LAWN - HIGH	0.8	POP-UP SPRAY	5.0	0.45	0.75	SANDY LOAM	6"	0-5%	FULL SUN	0 / 1	0 GAL	0 / 1	0 GAL	16 / 1	346 GAL	63 / 2	2,797 GAL	68 / 3	4,503 GAL	53 / 5	5,893 GAL	59 / 5	6,569 GAL	51 / 5	5,626 GAL	61 / 3	4,023 GAL	98 / 1	2,169 GAL	0 / 1	0 GAL	0 / 1	0 GAL																										
											MONTHLY RAINFALL (CITY)		3.6		3.5		2.8		1.1		0.67		0.2		0.04		0.04		0.28		0.94		2.09		3.27																									
											MONTHLY ET (CITY)		1.0		JAN		1.8		FEB		3.2		MAR		4.7		APR		6.4		MAY		7.7		JUN		8.4		JUL		7.2		AUG		5.4		SEP		3.7		OCT		1.7		NOV		0.9		DEC	
											MONTHLY TOTALS (GAL)		0 GAL		0 GAL		346 GAL		2,797 GAL		4,503 GAL		5,893 GAL		6,569 GAL		5,626 GAL		4,023 GAL		2,169 GAL		0 GAL		0 GAL		0 GAL		0 GAL		0 GAL		0 GAL		0 GAL															



D187	REMOVE STRIPING AND PREP PAVING FOR RESEAL.
D187 TYP	X
D189	REMOVE DIAGONAL STRIPING

## DRAWING NOTES

120	(E) BASKETBALL POLE, BACKSTOP & TETHERBALL POLE TO REMAIN
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(E) AC PAVING TO BE REMOVED


(E) CONCRETE FLATWORK TO BE REMOVED

(E) LANDSCAPING TO REMAIN


(E) LANDSCAPING TO BE REMOVED

(V) (E) VAN ACCESSIBLE PARKING, DSA 02-113987  
TO BE RESTRIPTED WITH THIS PROJECT AS PART OF  
PAVEMENT RESEAL AND STRIPING, SEE A1.2

(S) (E) STANDARD ACCESSIBLE PARKING, DSA 02-113987  
TO BE RESTRIPTED WITH THIS PROJECT AS PART OF  
PAVEMENT RESEAL AND STRIPING, SEE A1.2

 (E) TREE TO REMAIN

**AC MARTIN**  
3009 DOUGLAS BLVD SUITE 290  
ROSEVILLE CA 95661 T 916 772 1800



project number	CA5602
project director	
project designer	
project architect	

[illegible]

DSA BACKCHECK - V2  
4-25-2023

**OAK HILL ES  
HARDSHIP  
MODERNIZATION**

CJUSD  
3909 NORTH LOOP BLVD  
ANTELOPE, CA 95843

DEMOLITION SITE  
PLAN

## A1.1

plot date 5/24/2023 10:07:08 AM

# 1 OVERALL DEMOLITION SITE PLAN

## A1.1

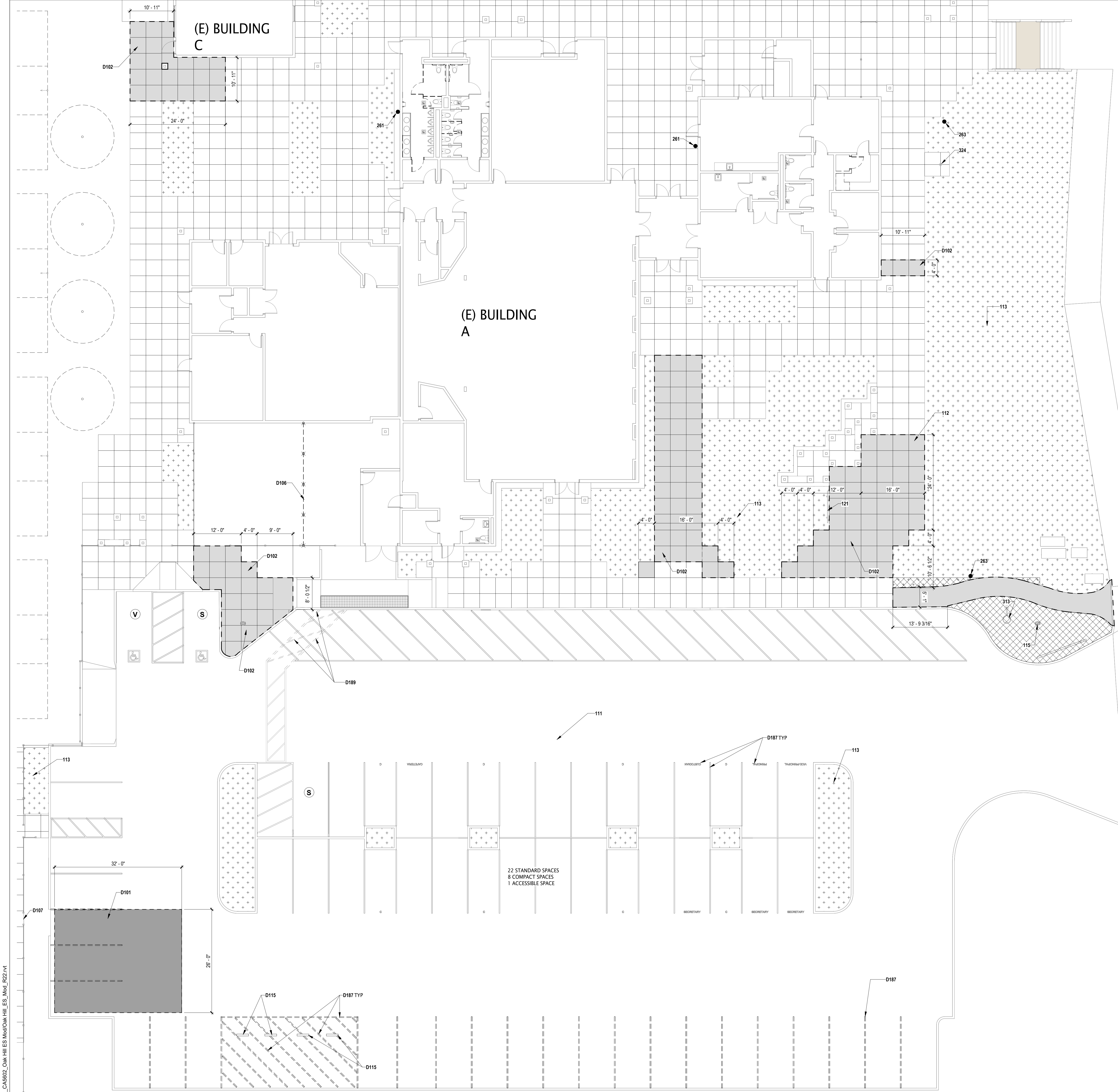


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Autodesk Docs://1815054 CA5602 Oak Hill ES Mod/Oak Hill ES Mod R22.NT



Autodesk Docs://1915554\_Oak Hill ES Mod/Oak Hill ES\_Mod\_R22.rvt



1 DEMOLITION SITE PLAN - SOUTH CAMPUS

GENERAL NOTES

- A. FOR ADDITIONAL INFORMATION SEE CIVIL, LANDSCAPE, MECHANICAL, PLUMBING, ELECTRICAL AND FIRE ALARM DRAWINGS.
- B. WORK SHALL BE IN ACCORDANCE WITH APPLICABLE CODES AS NOTED ON THE TITLE SHEET AND IN SPECIFICATIONS.
- C. SEE SHEET C0.1, PROJECT NOTE 12 REGARDING FIRE SAFETY DURING DEMOLITION AND CONSTRUCTION.
- D. CONTRACTOR SHALL PRESERVE AND PROTECT EXISTING CONDITIONS THAT ARE TO REMAIN, AND TO SECURE THE PROPERTY DURING CONSTRUCTION.
- E. IN AREAS OF WORK, VERIFY AND LOCATE EXISTING UNDERGROUND UTILITIES AND AVOID DAMAGE TO THE SAME.
- F. CONDITIONS OBSERVED ON SITE WHICH SHALL AFFECT THE DEMOLITION NOT OTHERWISE NOTED IN THESE DOCUMENTS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT.
- G. ITEMS NOTED TO BE REMOVED AND NOT RELOCATED ARE TO BE REMOVED FROM THE SITE AND DISPOSED OF IN THE PROPER MANNER.
- H. IN AREAS WHERE LANDSCAPING IS TO BE DEMOLISHED, DEMOLITION SHALL INCLUDE IRRIGATION SYSTEM.
- I. FOR SITE ACCESS AND SITE CODE COMPLIANCE SEE SHEET C1.1

DEMOLITION NOTES

- D101 SAWCUT & REMOVE (E) AC PAVING, SCD.
- D102 SAWCUT & REMOVE (E) CONCRETE FLATWORK, SCD. CUT CONCRETE ON (E) SCORE LINES. DO NOT DAMAGE CONCRETE EDGE TO REMAIN.
- D106 REMOVE (E) CHAIN LINK FENCE.
- D107 REMOVE (E) ORNAMENTAL METAL FENCE FOR NEW GATE OPENING.
- D115 REMOVE (E) CONCRETE BUMPER CURBS.
- D187 REMOVE STRIPING AND PREP PAVING FOR RESEAL.
- D189 REMOVE DIAGONAL STRIPING.

DRAWING NOTES

- 111 (E) ASPHALTIC CONCRETE PAVING TO REMAIN.
- 112 (E) CONCRETE FLATWORK TO REMAIN.
- 113 (E) LANDSCAPING TO REMAIN.
- 115 (E) FIRE HYDRANT.
- 121 (E) SIGN BOARD TO REMAIN.
- 261 REPLACE (E) WATER VALVE. SEE PLUMBING DRAWINGS.
- 263 REPLACE (E) ISOLATION VALVE. SEE PLUMBING DRAWINGS.
- 313 (E) LIGHT POLE TO REMAIN.
- 324 (E) ELECTRONIC MESSAGE BOARD SIGN TO REMAIN.

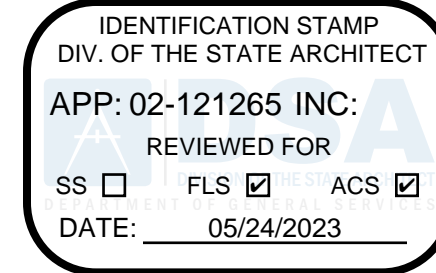
SITE LEGEND - DEMO

- (E) AC PAVING TO BE REMOVED
- (E) CONCRETE FLATWORK TO BE REMOVED
- (E) LANDSCAPING TO REMAIN
- (E) LANDSCAPING TO BE REMOVED

- (V) (E) VAN ACCESSIBLE PARKING, DSA 02-113987 TO BE RESTRIPTED WITH THIS PROJECT AS PART OF PAVEMENT RESEAL AND STRIPING, SEE A1.2
- (S) (E) STANDARD ACCESSIBLE PARKING, DSA 02-113987 TO BE RESTRIPTED WITH THIS PROJECT AS PART OF PAVEMENT RESEAL AND STRIPING, SEE A1.2

- (E) TREE TO REMAIN

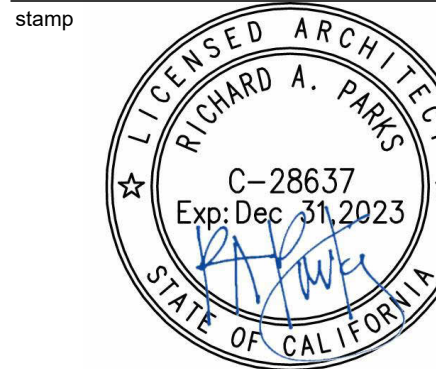
dsa



architect



stamp



consultant

project number CA5602  
project director  
project designer  
project architect

revisions

no. date revision

OAK HILL ES  
HARDSHIP  
MODERNIZATION

CJUSD  
3909 NORTH LOOP BLVD  
ANTELOPE, CA 95843

sheet name

DEMOLITION SITE  
PLAN - SOUTH  
CAMPUS

sheet number

A1.3

plot date 5/24/2023 10:07:52 AM









GENERAL NOTES

- A. FOR ADDITIONAL INFORMATION SEE CIVIL, LANDSCAPE, MECHANICAL, PLUMBING, ELECTRICAL AND FIRE ALARM DRAWINGS.
- B. WORK SHALL BE IN ACCORDANCE WITH APPLICABLE CODES AS NOTED ON THE TITLE SHEET AND IN SPECIFICATIONS.
- C. SEE SHEET G0.1, PROJECT NOTE 12 REGARDING FIRE SAFETY DURING DEMOLITION AND CONSTRUCTION.
- D. CONTRACTOR SHALL PRESERVE AND PROTECT EXISTING CONDITIONS THAT ARE TO REMAIN, AND TO SECURE THE PROPERTY DURING CONSTRUCTION.
- E. IN AREAS OF WORK, VERIFY AND LOCATE EXISTING UNDERGROUND UTILITIES AND AVOID DAMAGE TO THE SAME.
- F. CONDITIONS OBSERVED ON SITE WHICH SHALL AFFECT THE DEMOLITION NOT OTHERWISE NOTED IN THESE DOCUMENTS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT.
- G. ITEMS NOTED TO BE REMOVED AND NOT RELOCATED ARE TO BE REMOVED FROM THE SITE AND DISPOSED OF IN THE PROPER MANNER.
- H. IN AREAS WHERE LANDSCAPING IS TO BE DEMOLISHED, DEM1/G1.1 IS TO INCLUDE IRRIGATION SYSTEM.
- I. FOR SITE ACCESS AND SITE CODE COMPLIANCE SEE SHEET G1.1

DEMOLITION NOTES

- D101 SAWCUT & REMOVE (E) AC PAVING, SCD.
- D102 SAWCUT & REMOVE (E) CONCRETE FLATWORK, SCD. CUT CONCRETE ON (E) SCORE LINES. DO NOT DAMAGE CONCRETE EDGE TO REMAIN.

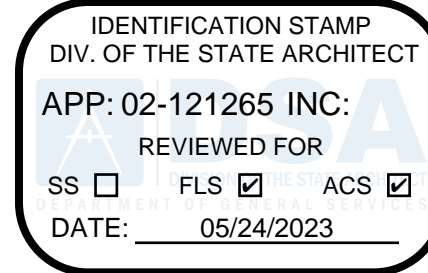
DRAWING NOTES

- 261 REPLACE (E) WATER VALVE. SEE PLUMBING DRAWINGS.
- 262 REPLACE (E) GAS VALVE. SEE PLUMBING DRAWINGS.

SITE LEGEND - DEMO

- (E) AC PAVING TO BE REMOVED
- (E) CONCRETE FLATWORK TO BE REMOVED
- (E) LANDSCAPING TO REMAIN
- (E) LANDSCAPING TO BE REMOVED

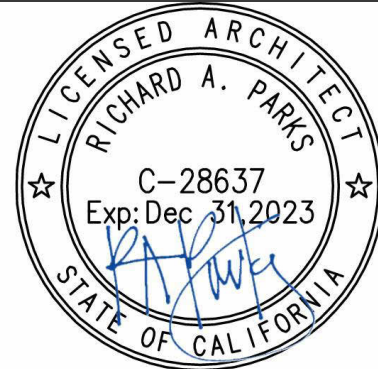
dsa



architect



stamp



consultant

project number CA5602  
project director  
project designer  
project architect

revisions  
no. date revision

project status

DSA BACKCHECK - V2  
4-25-2023

client / project

OAK HILL ES  
HARDSHIP  
MODERNIZATION

CJUSD  
3909 NORTH LOOP BLVD  
ANTELOPE, CA 95843

sheet name

DEMOLITION SITE  
PLAN - NORTH  
CAMPUS

sheet number

A1.5

plot date 5/15/2023 4:53:10 PM



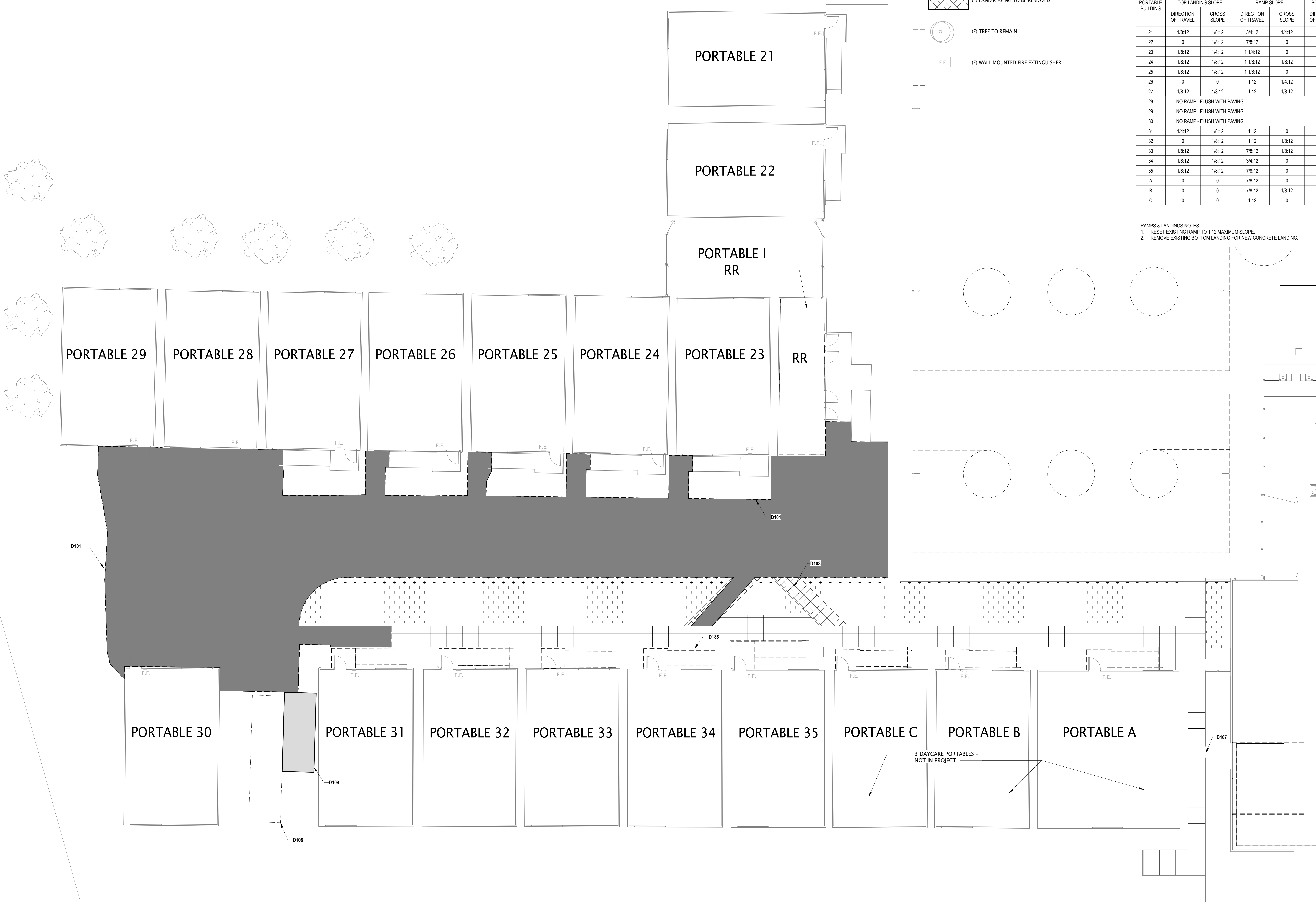


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1

DEMOLITION SITE PLAN - PORTABLE BUILDINGS

1" = 10'-0"



DEMOLITION NOTES

- D101 SAWCUT & REMOVE (E) AC PAVING, SCD.  
D103 REMOVE (E) LANDSCAPING.  
D107 REMOVE (E) ORNAMENTAL METAL FENCE FOR NEW GATE OPENING.  
D108 (E) STORAGE CONTAINER TO BE RELOCATED, SEE SITE PLAN A1.2  
D109 REMOVE (E) CONCRETE SLAB.  
D186 REMOVE (E) RAMP AT PORTABLE.

SITE LEGEND - DEMO

- (E) AC PAVING TO BE REMOVED  
(E) CONCRETE FLATWORK TO BE REMOVED  
(E) LANDSCAPING TO REMAIN  
(E) LANDSCAPING TO BE REMOVED  
(E) TREE TO REMAIN  
(E) WALL MOUNTED FIRE EXTINGUISHER

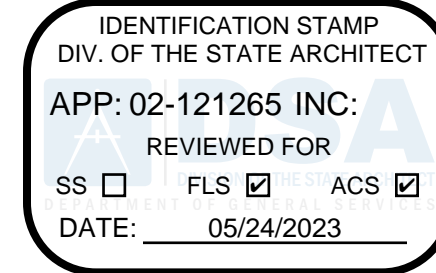
GENERAL NOTES

- A. FOR ADDITIONAL INFORMATION SEE CIVIL, LANDSCAPE, MECHANICAL, PLUMBING, ELECTRICAL AND FIRE ALARM DRAWINGS.  
B. WORK SHALL BE IN ACCORDANCE WITH APPLICABLE CODES AS NOTED ON THE TITLE SHEET AND IN SPECIFICATIONS.  
C. SEE SHEET G0.1, PROJECT NOTE 1.2 REGARDING FIRE SAFETY DURING DEMOLITION AND CONSTRUCTION.  
D. CONTRACTOR SHALL PRESERVE AND PROTECT EXISTING CONDITIONS THAT ARE TO REMAIN, AND TO SECURE THE PROPERTY DURING CONSTRUCTION.  
E. IN AREAS OF WORK, VERIFY AND LOCATE EXISTING UNDERGROUND UTILITIES AND AVOID DAMAGE TO THE SAME.  
F. CONDITIONS OBSERVED ON SITE WHICH SHALL AFFECT THE DEMOLITION NOT OTHERWISE NOTED IN THESE DOCUMENTS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT.  
G. ITEMS NOTED TO BE REMOVED AND NOT RELOCATED ARE TO BE REMOVED FROM THE SITE AND DISPOSED OF IN THE PROPER MANNER.  
H. IN AREAS WHERE LANDSCAPING IS TO BE DEMOLISHED, DEMO/G1.1 IS TO INCLUDE IRRIGATION SYSTEM.  
I. FOR SITE ACCESS AND SITE CODE COMPLIANCE SEE SHEET G1.1.

PORTABLE BUILDINGS EXISTING RAMPS & LANDINGS							
PORTABLE BUILDING	TOP LANDING SLOPE		RAMP SLOPE		BOTTOM LANDING SLOPE		NOTE
	DIRECTION OF TRAVEL	CROSS SLOPE	DIRECTION OF TRAVEL	CROSS SLOPE	DIRECTION OF TRAVEL	CROSS SLOPE	
21	1/8-12	1/8-12	3/4-12	1/4-12	1/8-12	0	
22	0	1/8-12	7/8-12	0	1/8-12	0	
23	1/8-12	1/4-12	1 1/4-12	0	1/8-12	1/8-12	1, 2
24	1/8-12	1/8-12	1 1/8-12	1/8-12	1/4-12	1/4-12	1, 2
25	1/8-12	1/8-12	1 1/8-12	0	1/8-12	1/4-12	1, 2
26	0	0	1-12	1/4-12	1/8-12	1/2-12	2
27	1/8-12	1/8-12	1-12	1/8-12	1/8-12	0	2
28	NO RAMP - FLUSH WITH PAVING						2
29	NO RAMP - FLUSH WITH PAVING						2
30	NO RAMP - FLUSH WITH PAVING						2
31	1/4-12	1/8-12	1-12	0	1/8-12	1/8-12	
32	0	1/8-12	1-12	1/8-12	1-12	0	
33	1/8-12	1/8-12	7/8-12	1/8-12	0	1/8-12	
34	1/8-12	1/8-12	3/4-12	0	0	1/8-12	1, 2
35	1/8-12	1/8-12	7/8-12	0	0	1/8-12	
A	0	0	7/8-12	0	0	1/8-12	
B	0	0	7/8-12	1/8-12	1/8-12	3/8-12	
C	0	0	1-12	0	1/8-12	1/4-12	

- RAMPS & LANDINGS NOTES:  
1. RESET EXISTING RAMP TO 1:12 MAXIMUM SLOPE.  
2. REMOVE EXISTING BOTTOM LANDING FOR NEW CONCRETE LANDING.

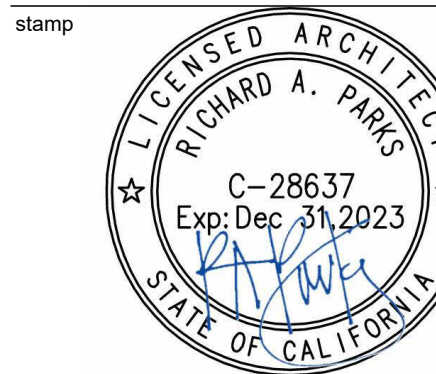
dsa



architect



stamp



consultant

project number CA5602  
project director  
project designer  
project architect

revisions  
no. date revision

project status

DSA BACKCHECK - V2  
4-25-2023

client / project

OAK HILL ES  
HARDSHIP  
MODERNIZATION

CJUSD  
3909 NORTH LOOP BLVD  
ANTELOPE, CA 95843

sheet name

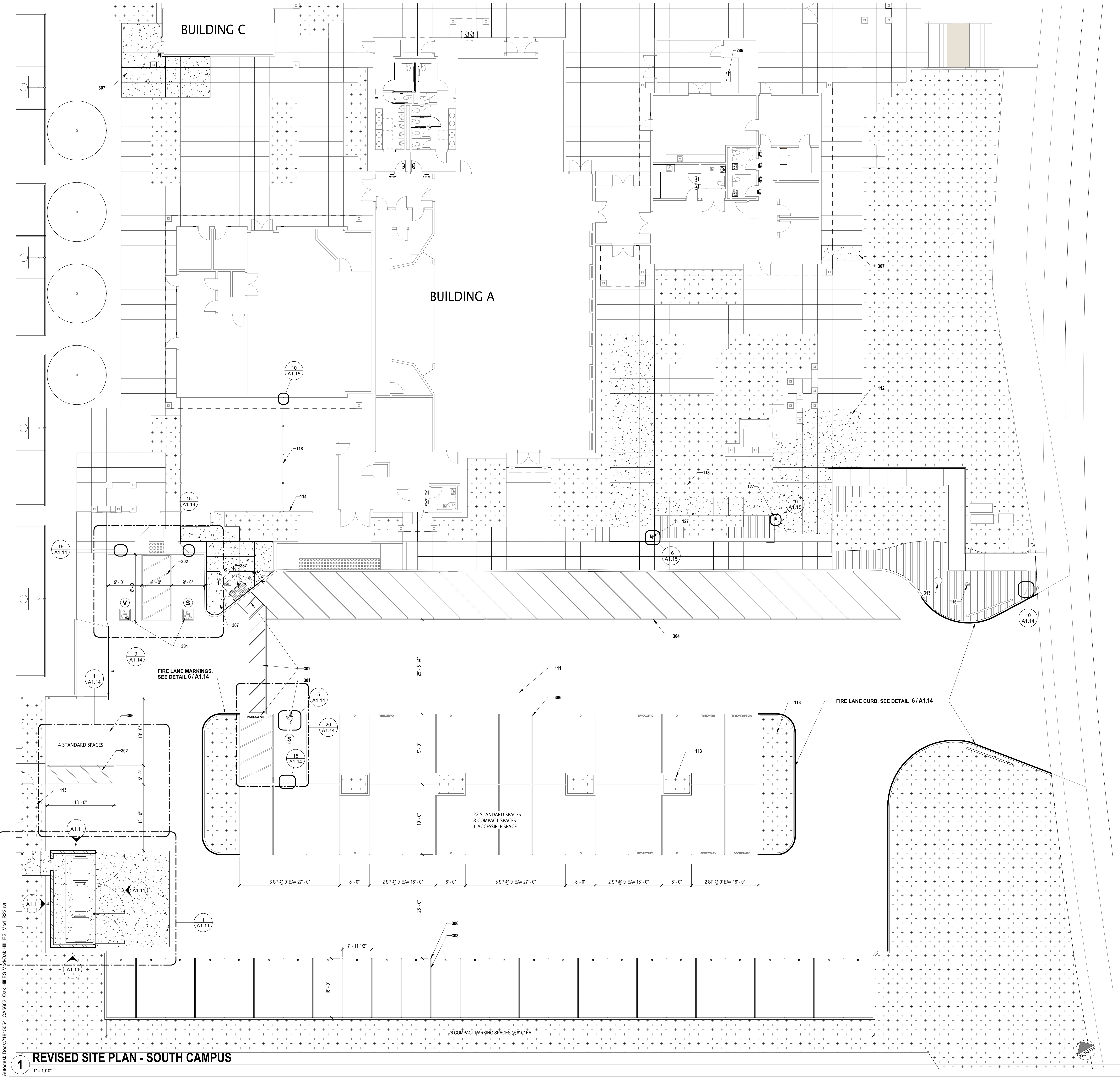
DEMOLITION SITE  
PLAN - PORTABLE  
BUILDINGS

sheet number

A1.6

plot date 5/15/2023 4:53:13 PM





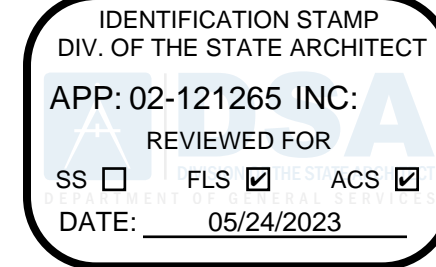
DRAWING NOTES

- 111 (E) ASPHALTIC CONCRETE PAVING TO REMAIN.  
112 (E) CONCRETE FLATWORK TO REMAIN.  
113 (E) LANDSCAPING TO REMAIN.  
114 (E) FENCE TO REMAIN.  
115 (E) FIRE HYDRANT.  
118 (N) ORNAMENTAL METAL FENCING TO MATCH (E).  
127 (N) ACCESSIBLE PATH DIRECTIONAL SIGN.  
286 (N) AIR CONDITIONING SPLIT SYSTEM COMPRESSOR ON CONCRETE PAD. SEE MECHANICAL DRAWINGS.  
301 I.S.A. RE-PAINTED ON ASPHALTIC CONCRETE PAVING. SEE REFERENCED DETAIL.  
302 ACCESS ASLE RE-PAINTED AND NEW STRIPING ADDED UP TO CURB RAMP AREA ON ASPHALTIC CONCRETE PAVING. SEE REFERENCED DETAIL.  
303 RESTRIPE PARKING AT THIS AREA FOR COMPACT PARKING SPACES.  
304 4" WIDE YELLOW STRIPING AT BUS LOADING ZONE, TYP.  
306 4" WIDE WHITE PAINT STRIPING AT PARKING SPACES, TYP.  
307 (N) CONCRETE FLATWORK. PROVIDE SCORE LINES AT 48" O.C. TO MATCH AND ALIGN WITH (E). COORDINATE WITH CIVIL DRAWINGS.  
313 (E) LIGHT POLE TO REMAIN.  
337 (N) ACC CURB RAMP. SEE DETAIL 16/C4.1

SITE LEGEND

- NEW CONCRETE FLATWORK  
NEW ASPHALTIC PAVING  
EXISTING LANDSCAPING  
NEW LANDSCAPING, S.L.D.

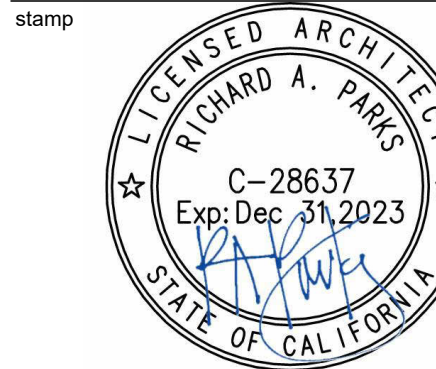
dsa



architect

AC MARTIN  
3009 DOUGLAS BLVD. SUITE 200  
ROSEVILLE, CA 95661 T 916 772 1800

stamp



consultant

project number CA5602  
project director  
project designer  
project architect

revisions  
no. date revision

project status

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4-25-2023

client / project

OAK HILL ES  
HARDSHIP  
MODERNIZATION

CJUSD  
3909 NORTH LOOP BLVD  
ANTELOPE, CA 95843

sheet name

REVISED SITE PLAN -  
SOUTH CAMPUS

sheet number

A1.7

plot date 5/24/2023 9:38:48 AM

1 REVISED SITE PLAN - SOUTH CAMPUS

1" = 10'-0"

Autodesk Docx/1915554 CA5602\_Oak Hill ES Hardship Modernization.dwg









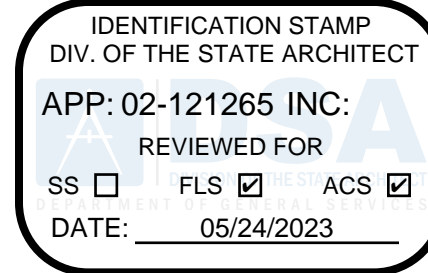
DRAWING NOTES

307 (N) CONCRETE FLATWORK. PROVIDE SCORE LINES AT 48" O.C. TO MATCH AND  
ALIGN WITH (E). COORDINATE WITH CIVIL DRAWINGS.  
311 (N) ASPHALTIC CONCRETE PAVING. FLUSH W/ (E) & (N) ADJACENT SURFACES.  
COORDINATE WITH CIVIL DRAWINGS.  
327 (N) LANDSCAPE AREA, S.L.D.

SITE LEGEND

- NEW CONCRETE FLATWORK
- NEW ASPHALTIC PAVING
- EXISTING LANDSCAPING
- NEW LANDSCAPING, S.L.D.

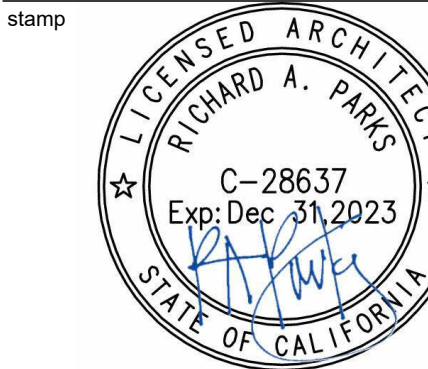
dsa



architect

ACMARTIN  
3009 DOUGLAS BLVD. SUITE 290  
ROSEVILLE CA 95661 T 916 772 1800

stamp



consultant

project number CA5602  
project director  
project designer  
project architect

revisions  
no. date revision

project status

DSA BACKCHECK - V2  
4-25-2023

client / project

OAK HILL ES  
HARDSHIP  
MODERNIZATION

CJUSD  
3909 NORTH LOOP BLVD  
ANTELOPE, CA 95843

sheet name

REVISED SITE PLAN -  
NORTH CAMPUS

sheet number

A1.9

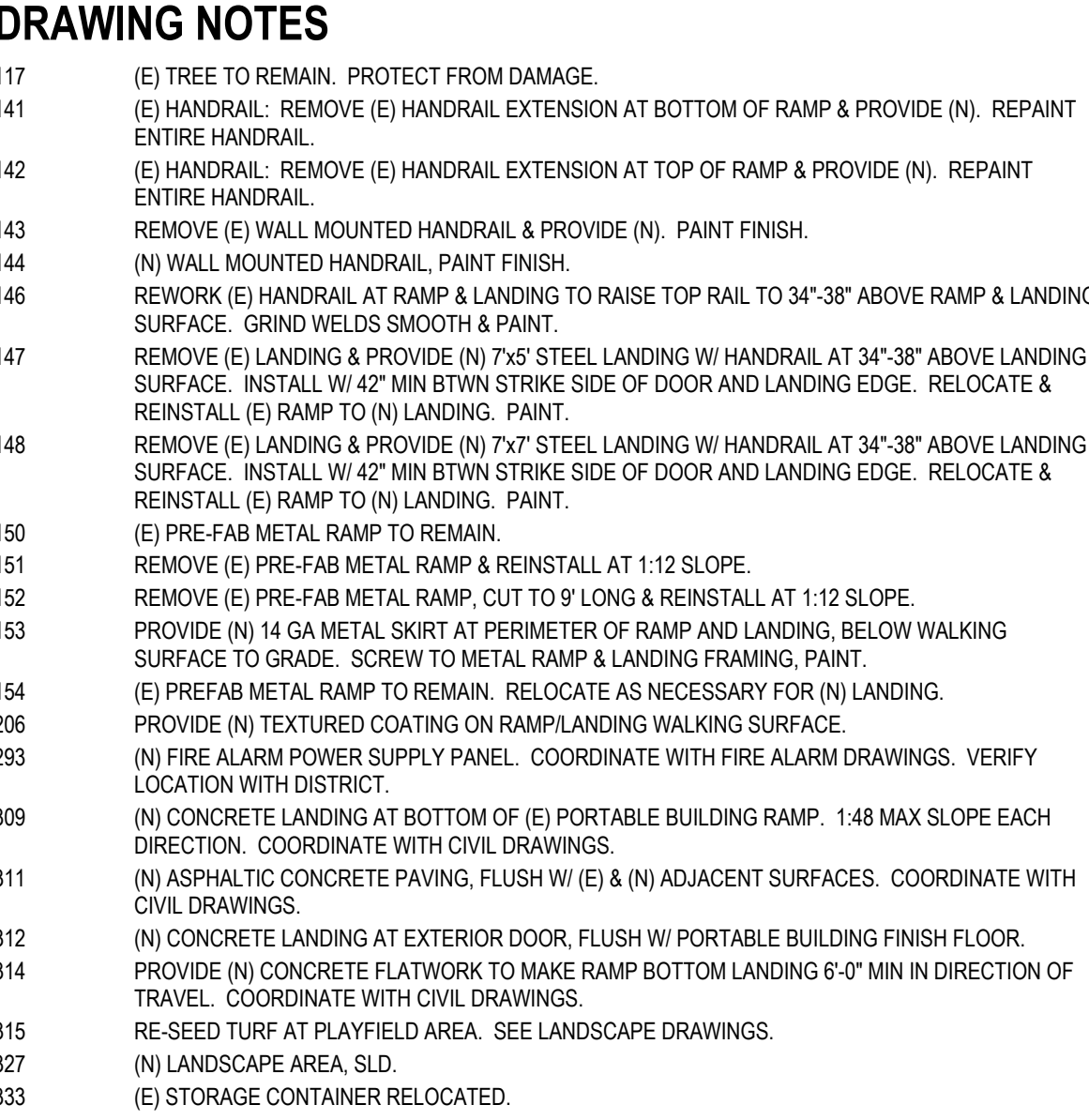
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1 REVISED SITE PLAN - NORTH CAMPUS





1" = 10'-0"

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### SITE LEGEND

	NEW CONCRETE FLATWORK
	NEW ASPHALTIC PAVING
	EXISTING LANDSCAPING
	NEW LANDSCAPING, S.I.D.

IDENTIFICATION STAMP  
DIV. OF THE STATE ARCHITECT

APP: 02-121265 INC:  
REVIEWED FOR

SS ☐ FL ☒ ACS ☒

DATE: 05/24/2023

architect

ACWARTY

3009 DOUGLAS BLVD SUITE 270  
ROSEVILLE CA 95661 716 772

stamp

LICENSED ARCHITECT  
RICHARD A. PARKS  
C-28637  
Exp: Dec 31, 2023  
STATE OF CALIFORNIA

consultant

project number CA5602  
project director  
project designer  
project architect

[illegible]

project status

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**DSA BACKCHECK - V**  
**4-25-2023**

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client / project

**OAK HILL ES  
HARDSHIP  
MODERNIZATION**

**CJUSD  
3909 NORTH LOOP BLVD  
ANTELOPE, CA 95843**

**REVISED SITE PLAN**  
**PORTABLE**  
**BUILDINGS**

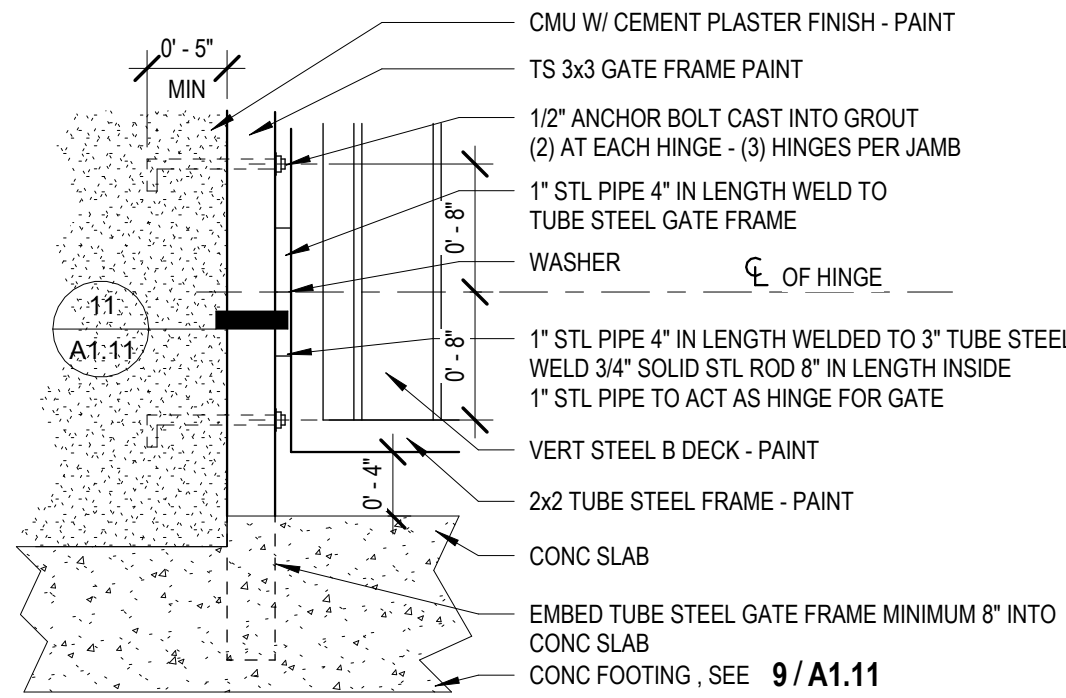
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sheet number

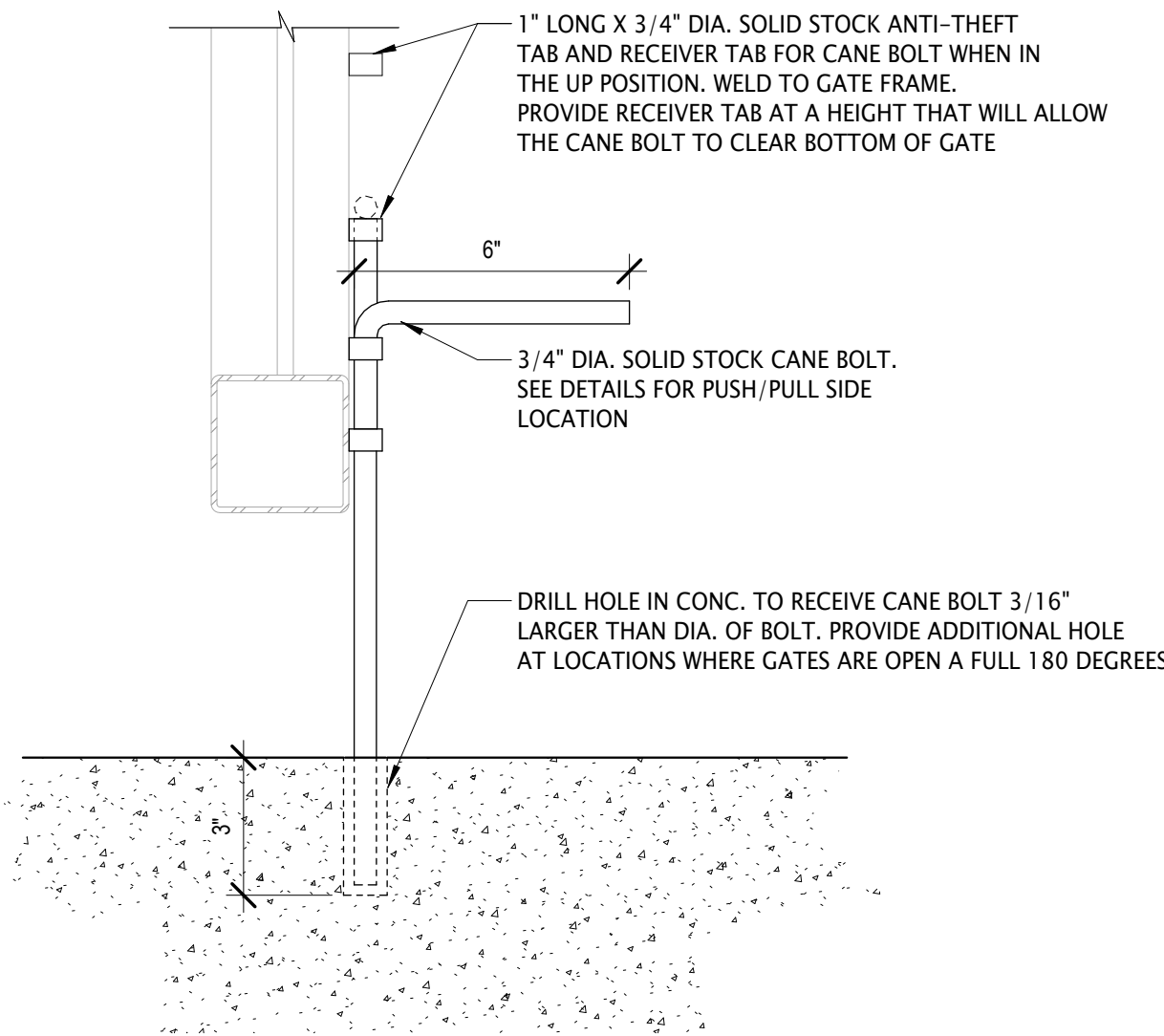
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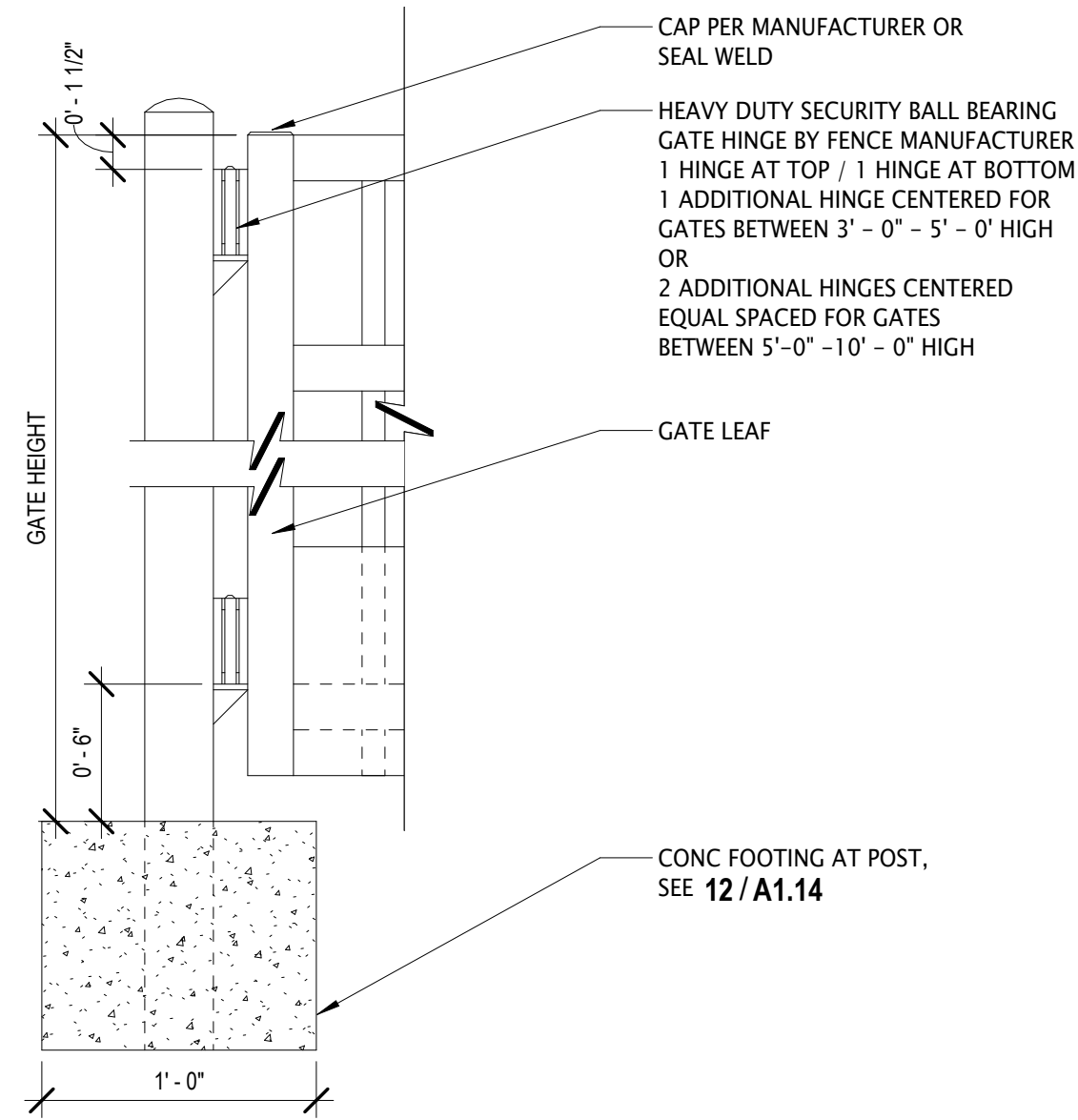




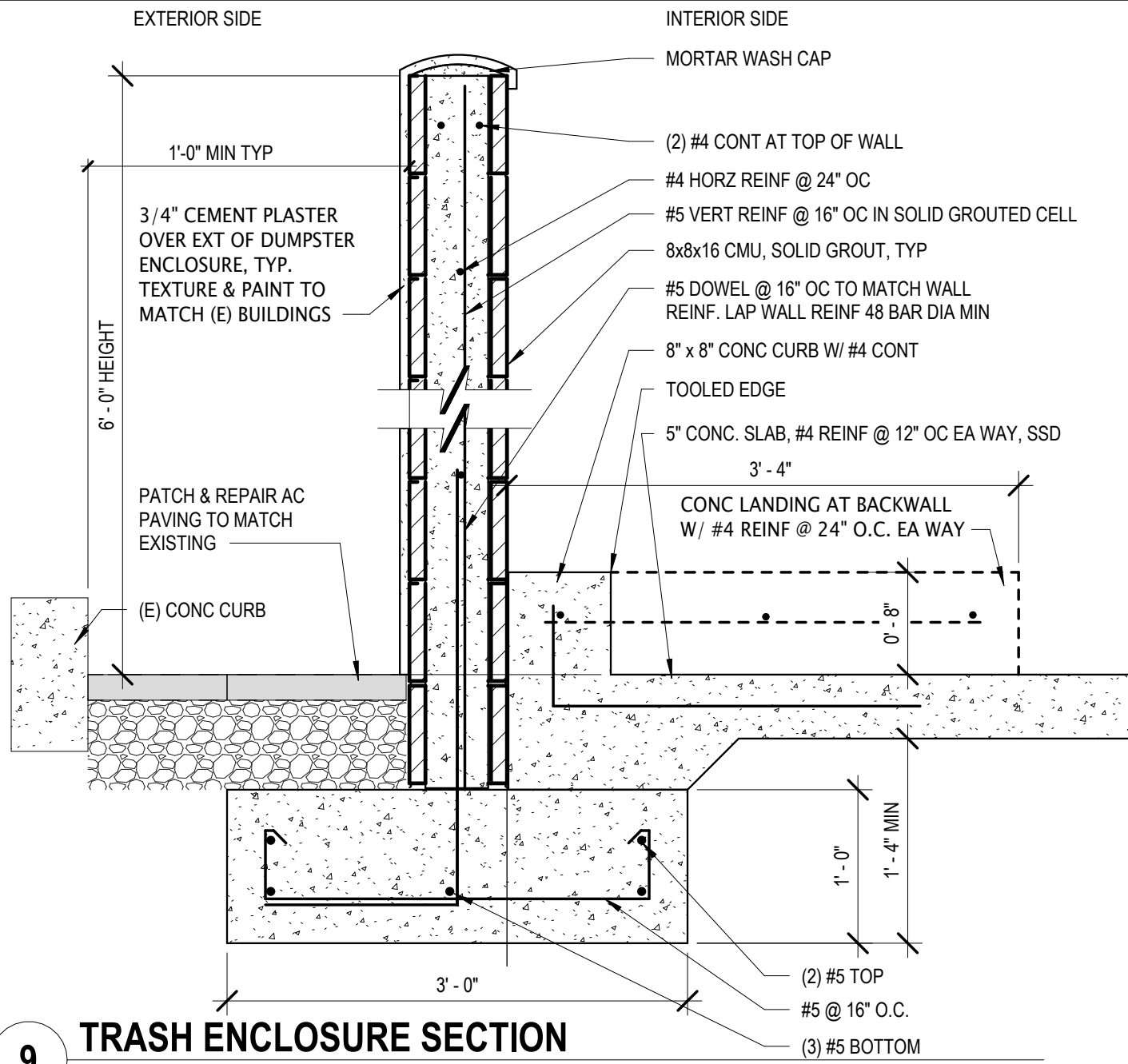
13 TRASH ENCLOSURE GATE JAMB  
1" = 1'-0"



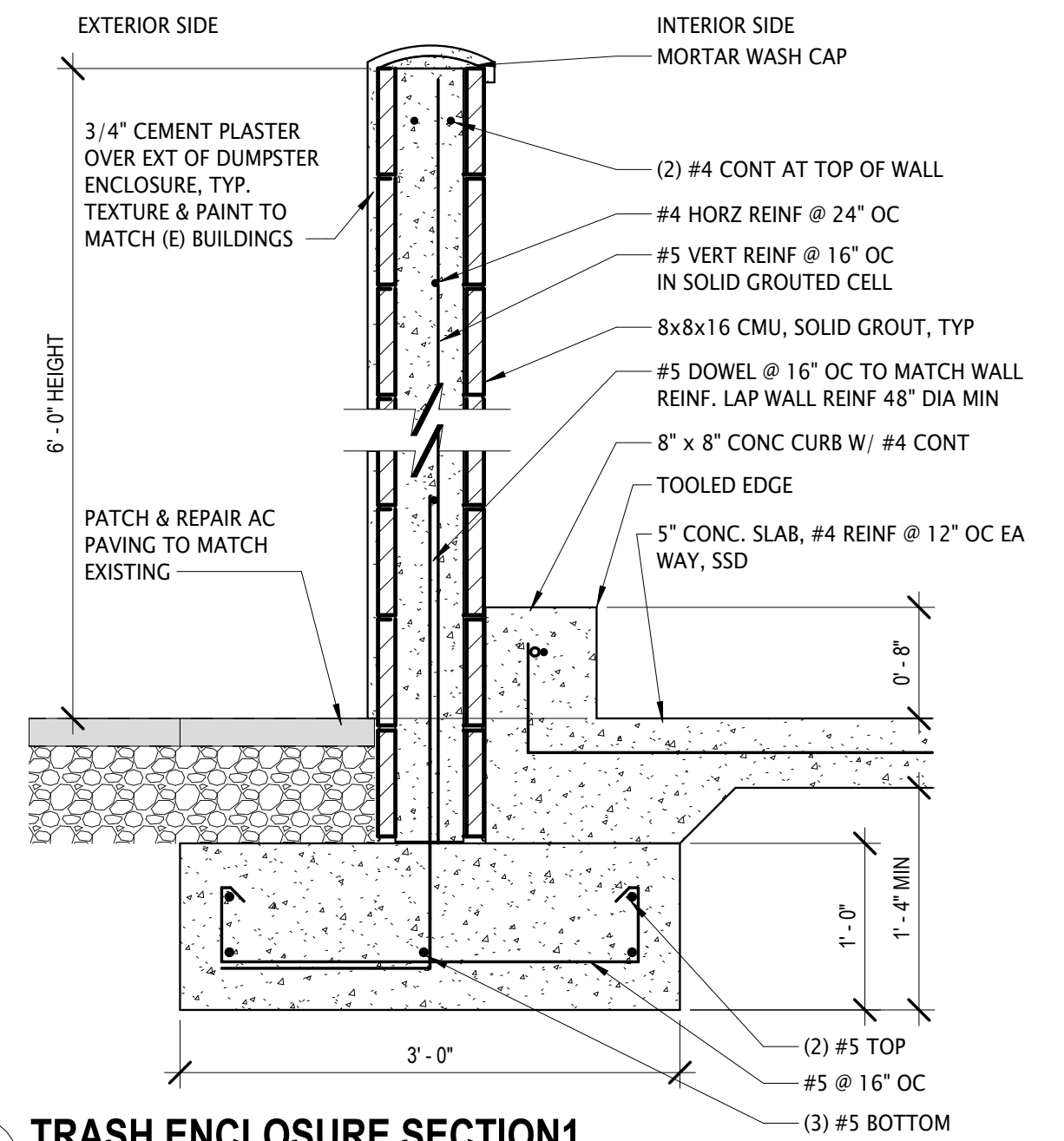
14 TYPICAL CANE BOLT  
3" = 1'-0"



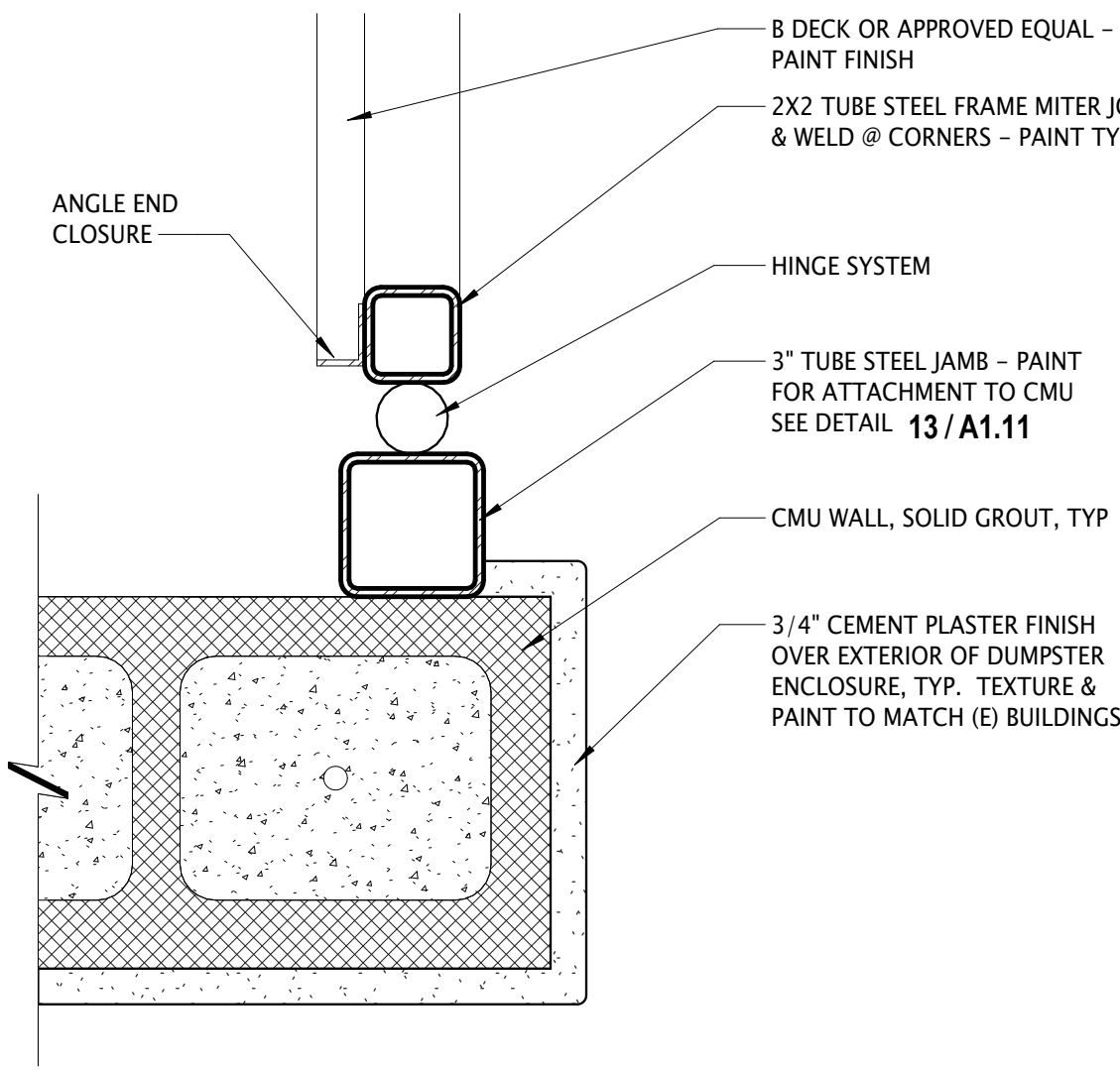
15 CENTER GATE POST AT DUMPSTER  
1 1/2" = 1'-0"



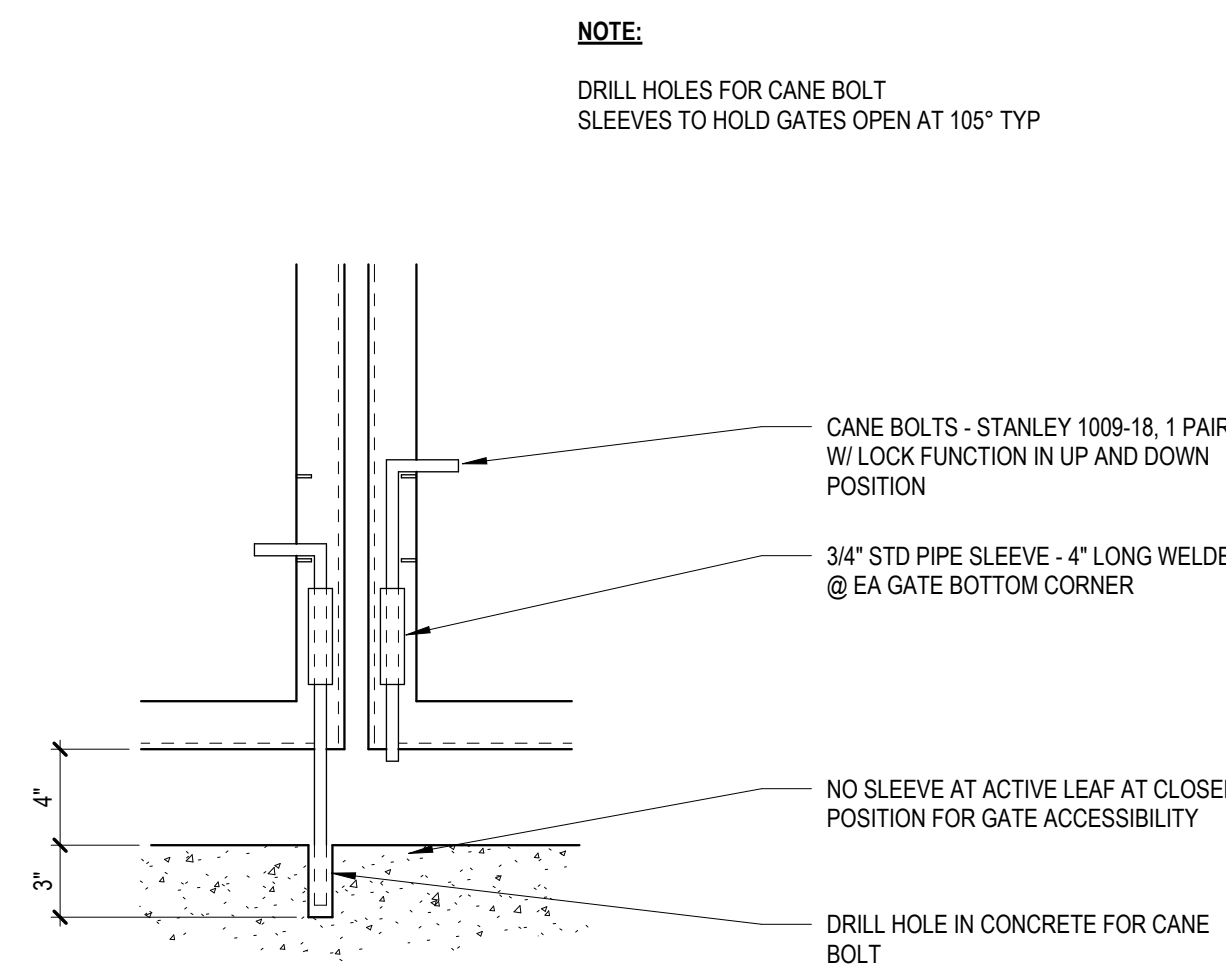
9 TRASH ENCLOSURE SECTION  
1" = 1'-0"



10 TRASH ENCLOSURE SECTION 1  
1" = 1'-0"



11 TRASH ENCLOSURE JAMB 1  
3" = 1'-0"



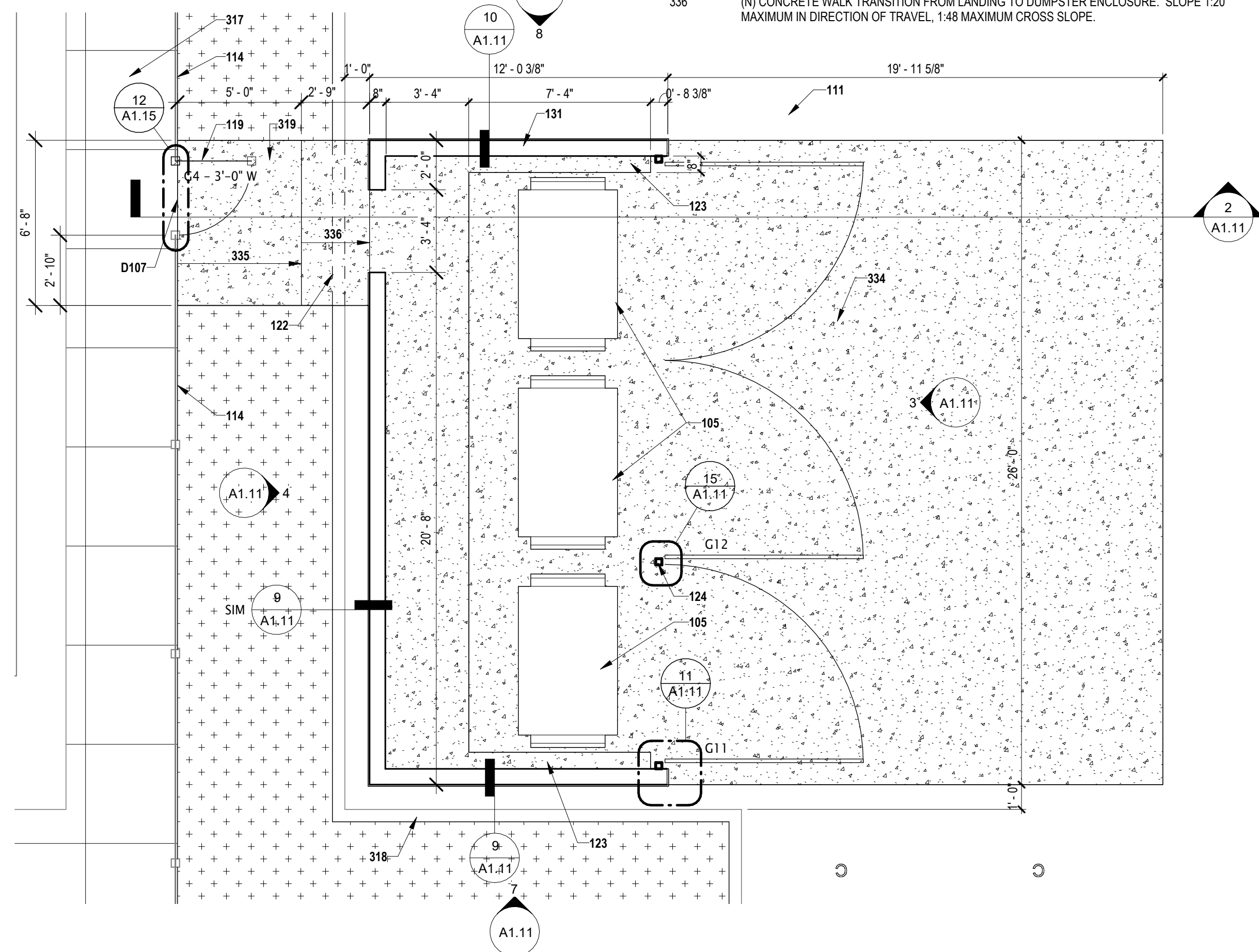
12 TRASH ENCLOSURE GATE CANE BOLTS  
1 1/2" = 1'-0"

## DEMOLITION NOTES

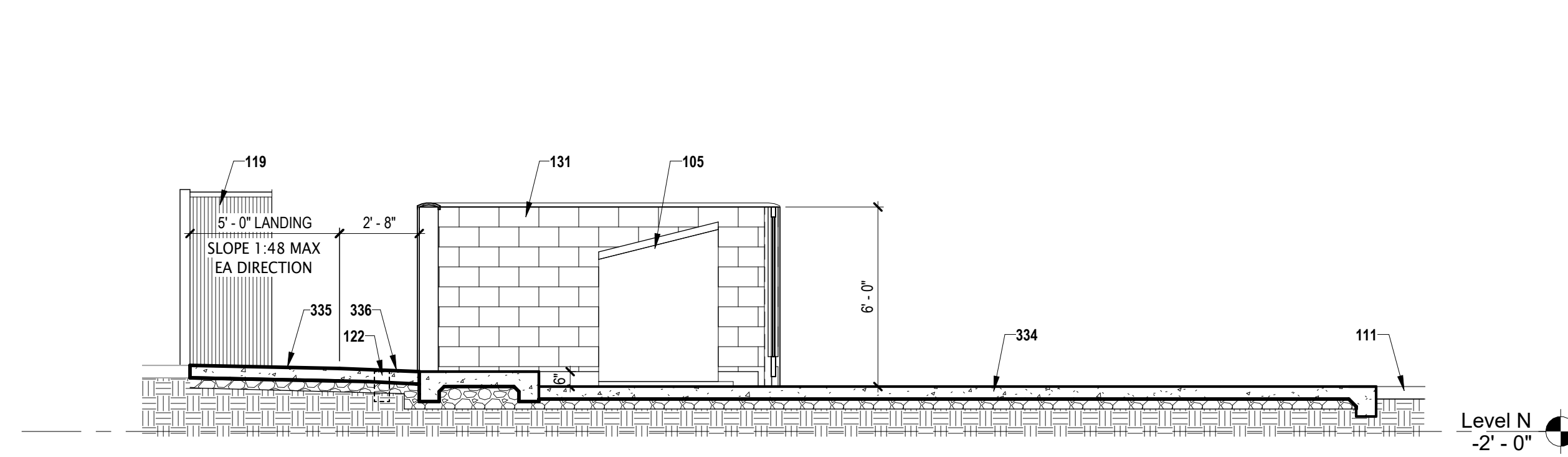
D107 REMOVE (E) ORNAMENTAL METAL FENCE FOR NEW GATE OPENING.

## DRAWING NOTES

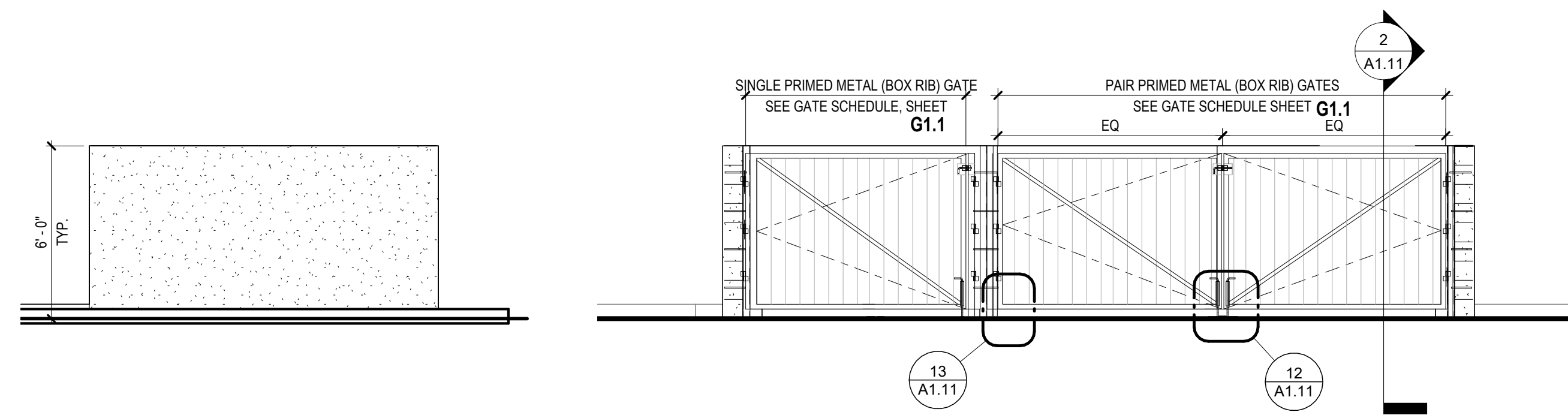
(E) DUMPSTER RELOCATED TO (N) ENCLOSURE.  
(E) ASPHALTIC CONCRETE PAVING TO REMAIN.  
(E) FENCE TO REMAIN.  
(N) ORNAMENTAL METAL GATE & GATE POSTS TO MATCH (E) FENCING. PAINT.  
REMOVE (E) CONCRETE CURB AS NECESSARY FOR (N) CONCRETE WALK.  
8x8 CONCRETE CURB AT EACH SIDE OF ENCLOSURE.  
4"x4"x1/4" TUBE STEEL POST.  
8x8x16 CMU WALL W/ ROUNDED MORTAR CAP.  
(E) CONCRETE WALK TO REMAIN.  
(N) CONCRETE FLATWORK W/ SCORE LINES TO MATCH (E) ADJACENT FLATWORK.  
COORDINATE WITH CIVIL DRAWINGS.  
(N) CONCRETE SLAB AT (N) DUMPSTER ENCLOSURE. THICKNESS AND REINFORCING PER  
DETAILS. COORDINATE WITH CIVIL DRAWINGS.  
(N) CONCRETE WALKLANDING AT GATE. SLOPE 1:48 MAX EACH DIRECTION FROM (E)  
CONCRETE WALK FOR A DISTANCE OF 5'-0" MINIMUM. COORDINATE WITH CIVIL DRAWINGS.  
(N) CONCRETE WALK TRANSITION FROM LANDING TO DUMPSTER ENCLOSURE. SLOPE 1:20  
MAXIMUM IN DIRECTION OF TRAVEL. 1:48 MAXIMUM CROSS SLOPE.



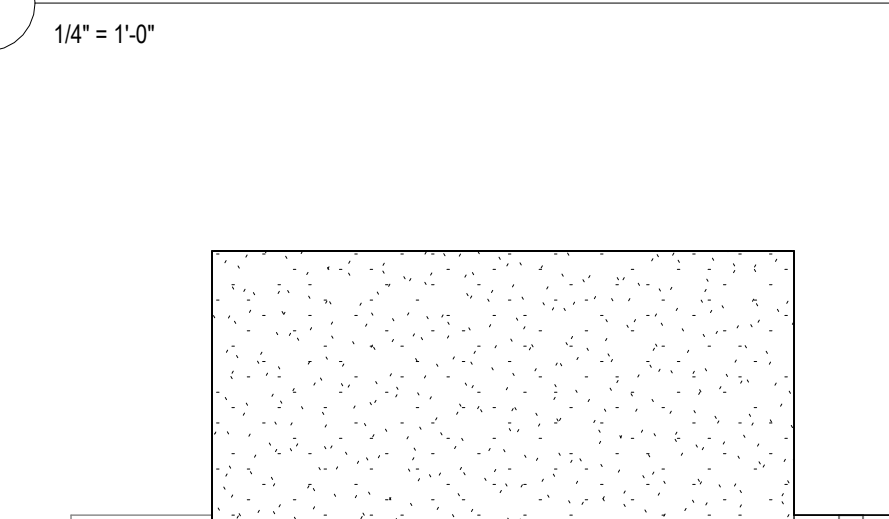
1 PARTIAL SITE PLAN - DUMPSTER ENCLOSURE PLAN  
1/4" = 1'-0"



2 DUMPSTER ENCLOSURE SECTION  
1/4" = 1'-0"



3 DUMPSTER ENCLOSURE - EAST  
1/4" = 1'-0"

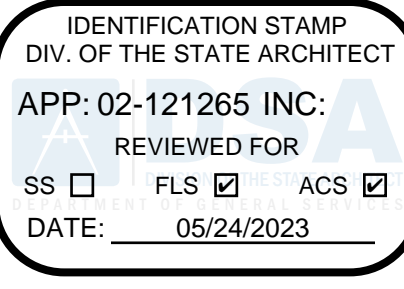


4 DUMPSTER ENCLOSURE - WEST  
1/4" = 1'-0"

8 DUMPSTER ENCLOSURE - NORTH  
1/4" = 1'-0"

## DUMPSTER ENCLOSURE EXTERIOR ELEVATIONS

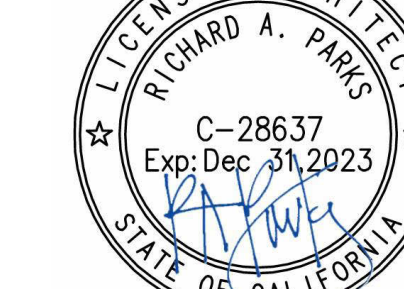
dsa



architect



stamp



consultant

project number CA5602

project director

project designer

project architect

revisions

no.

date

revision

project status

DSA BACKCHECK - V2  
4-25-2023

client / project

## OAK HILL ES HARDSHIP MODERNIZATION

CJUSD  
3909 NORTH LOOP BLVD  
ANTELOPE, CA 95843

sheet name

DUMPSTER  
ENCLOSURE

sheet number

A1.11

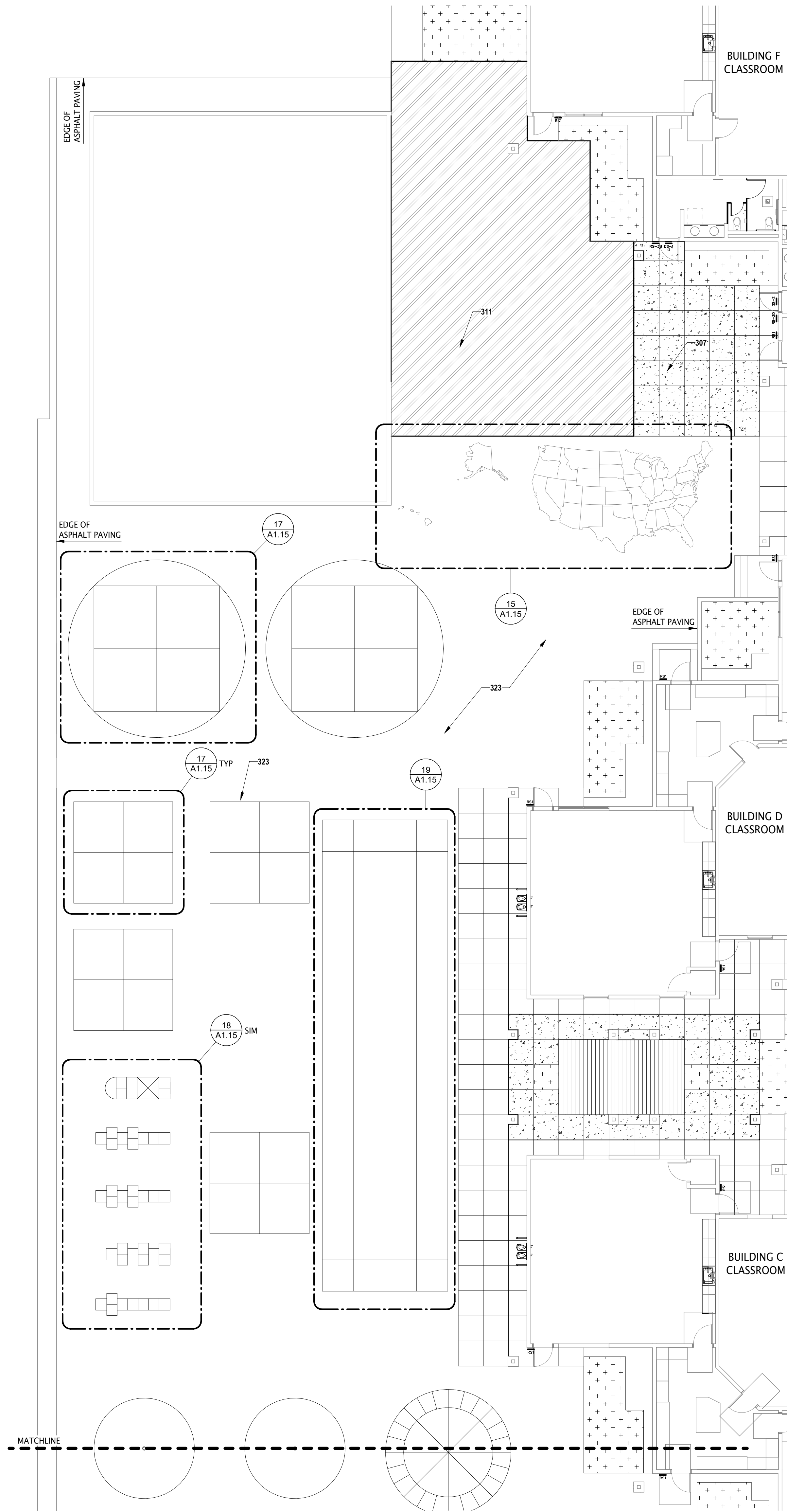
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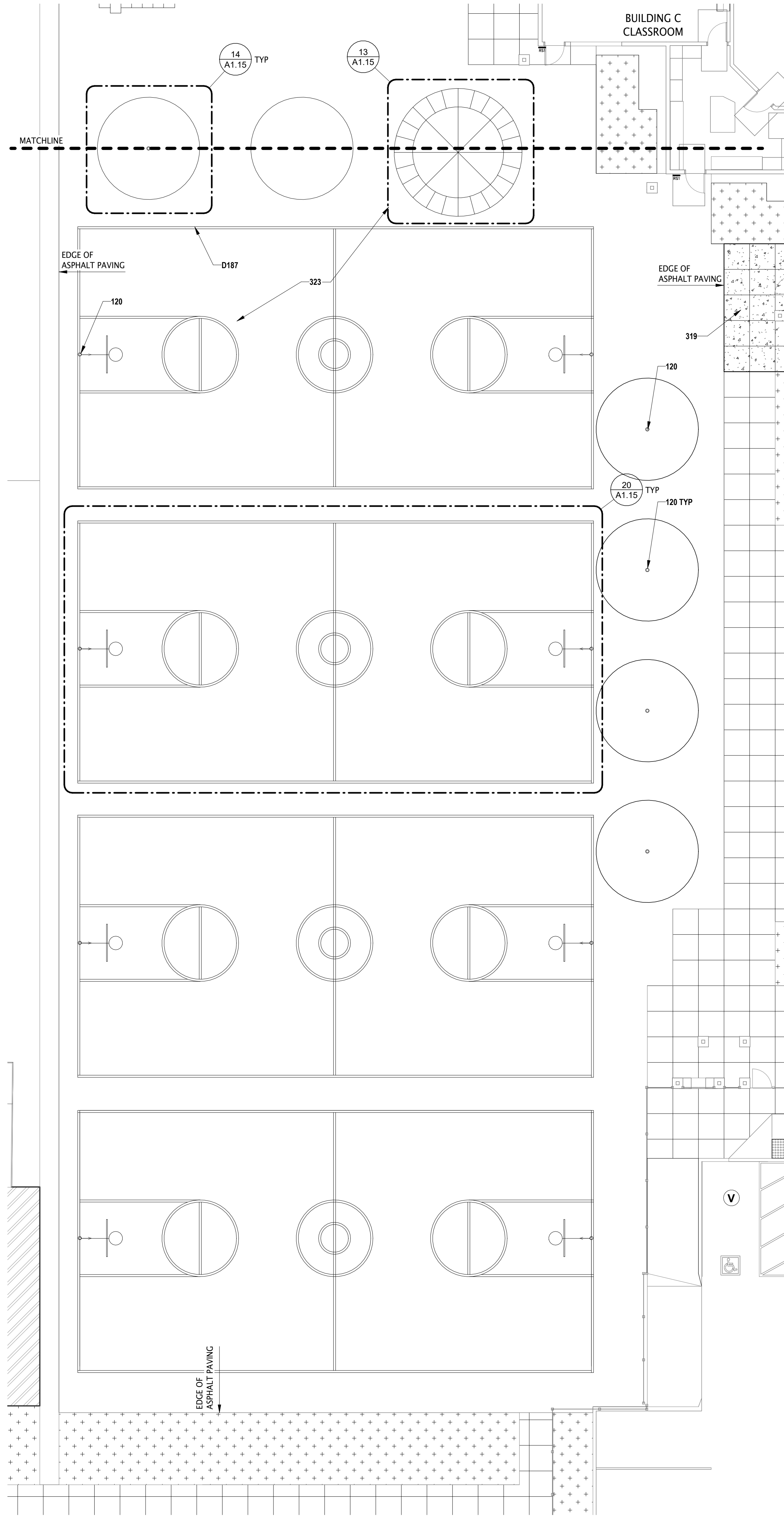


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**2 ENLARGED PLAYGROUND PLAN-NORTH**

1" = 10'-0"



**1 ENLARGED PLAYGROUND PLAN-SOUTH**

1" = 10'-0"

## DEMOLITION NOTES

D187 REMOVE STRIPING AND PREP PAVING FOR RESEAL.

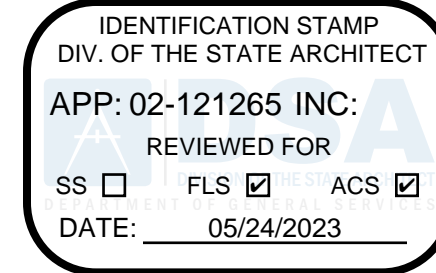
## DRAWING NOTES

120 (E) BASKETBALL POLE, BACKSTOP & TETHERBALL POLE TO REMAIN.  
307 (N) CONCRETE FLATWORK. PROVIDE SCORE LINES AT 48" O.C. TO MATCH AND ALIGN WITH (E).  
COORDINATE WITH CIVIL DRAWINGS.  
311 (N) ASPHALTIC CONCRETE PAVING, FLUSH W/ (E) & (N) ADJACENT SURFACES. COORDINATE WITH CIVIL  
DRAWINGS.  
319 (N) CONCRETE FLATWORK W/ SCORE LINES TO MATCH (E) ADJACENT FLATWORK. COORDINATE WITH CIVIL  
DRAWINGS.  
323 SEAL COAT (E) PLAY COURT AREA AND RESTRIPE.

## SITE LEGEND

- NEW CONCRETE FLATWORK
- NEW ASPHALTIC PAVING
- EXISTING LANDSCAPING
- NEW LANDSCAPING, S.L.D.

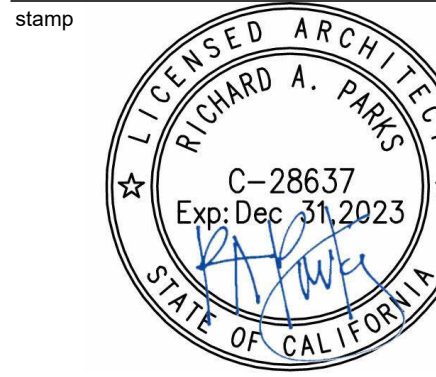
dsa



architect

**ACMARTIN**  
3009 DOUGLAS BLVD. SUITE 290  
ROSEVILLE, CA 95661 T 916 772 1800

stamp



consultant

project number CA5602  
project director  
project designer  
project architect

revisions  
no. date revision

project status

**DSA BACKCHECK - V2**  
**4-25-2023**

client / project

**OAK HILL ES**  
**HARDSHIP**  
**MODERNIZATION**

CJUSD  
3909 NORTH LOOP BLVD  
ANTELOPE, CA 95843

sheet name

**ENLARGED PLAY**  
**GROUND PLAN**

sheet number

**A1.13**

plot date 5/15/2023 4:53:26 PM

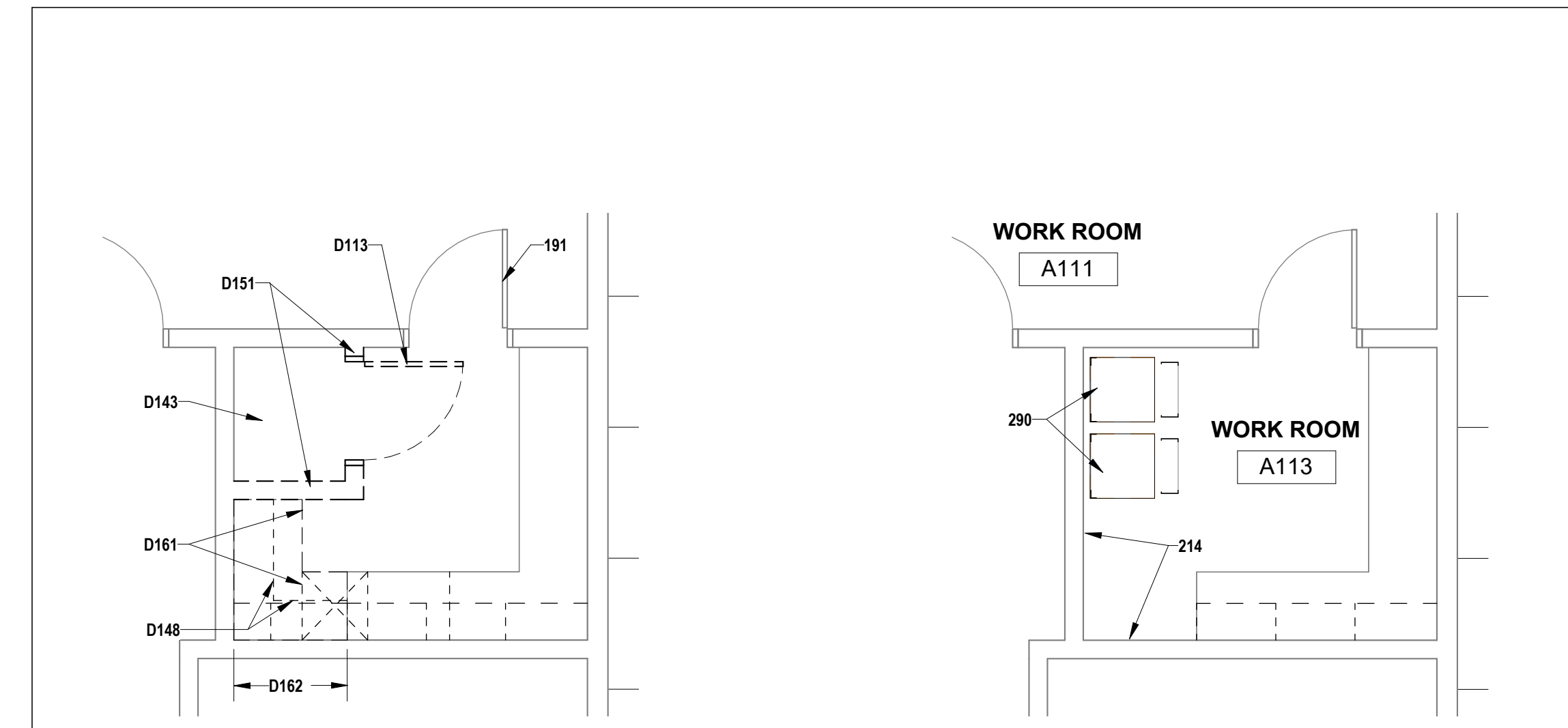






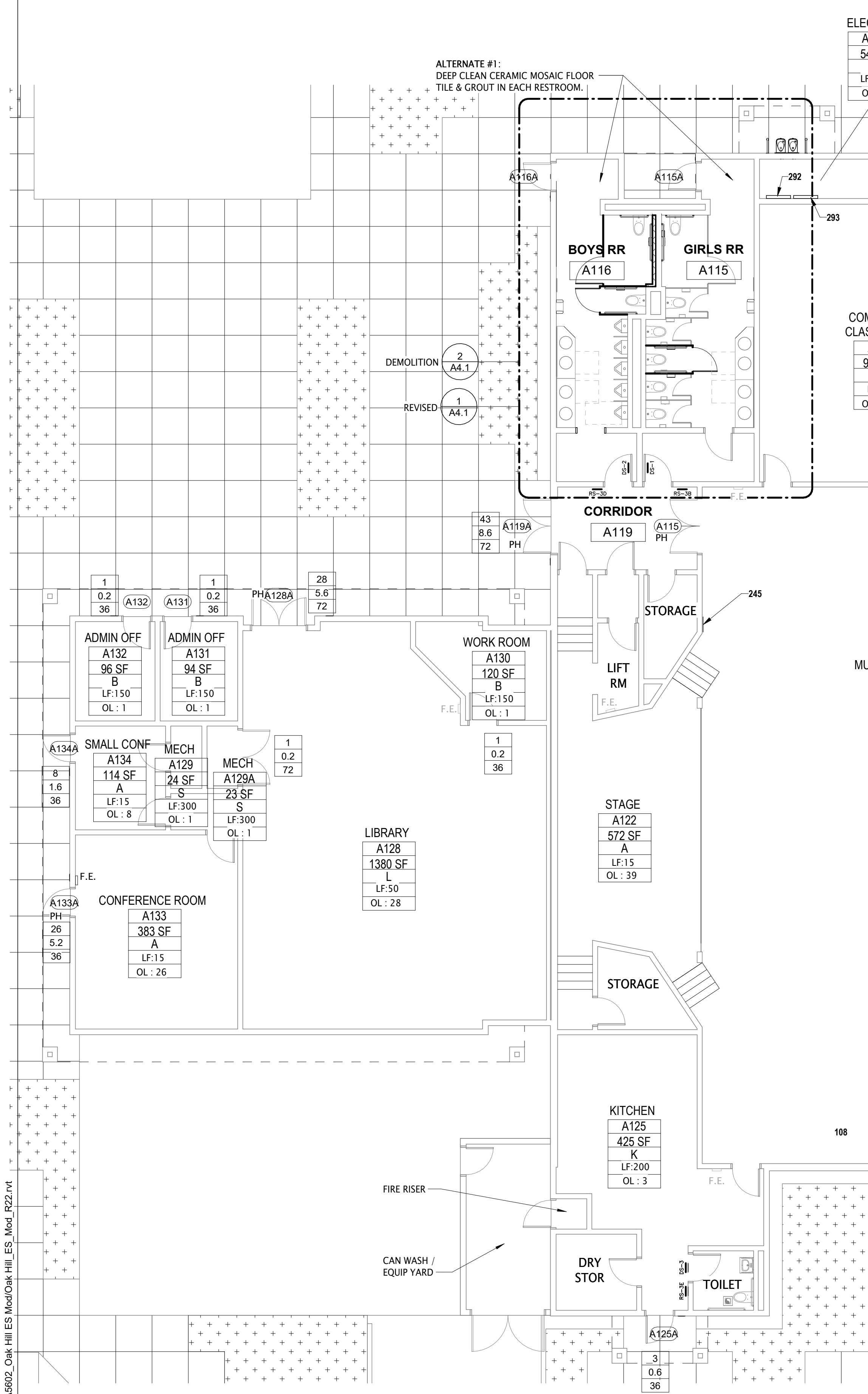






4 DEMOLITION PLAN - BUILDING A-113A 1/4" = 1'-0"

5 FLOOR PLAN - BUILDING A-113A 1/4" = 1'-0"



FLOOR PLAN - BUILDING A 1/8" = 1'-0"

### DEMOLITION NOTES

- D113 REMOVE (E) DOOR, HARDWARE AND FRAME.  
D133 REMOVE (E) SINK BASE CABINET.  
D134 REMOVE (E) PLASTIC LAMINATE COUNTER TOP, FULL LENGTH.  
D143 REMOVE (E) CEILING IN THIS SPACE.  
D148 REMOVE (E) SOFFIT.  
D151 REMOVE (E) WALL FULL HEIGHT.  
D161 REMOVE (E) BASE CASEWORK AS INDICATED. REMOVE (E) COUNTERTOP TO EXTENT INDICATED. BALANCE TO REMAIN.  
D162 REMOVE (E) WALL CABINETS AS INDICATED.  
D182 REMOVE (E) SINK, FAUCET & ASSOCIATED PIPING. NEW FIXTURE TO CONNECT TO (E) PIPING.

### EXIT ANALYSIS LEGEND

#### EXIT REQUIREMENTS & EGRESS WIDTHS

- EXITS REQUIRED (PER CBC1021.3)  
OCCUPANCY 1-500 = 2  
OCCUPANCY 501-1,000 = 3  
OCCUPANCY > 1,000 = 4

MIN. EGRESS WIDTHS (PER CBC 1005.3.2)  
DOOR WIDTH = 0.2' / OCCUPANT

ROOM NAME	ROOM NUMBER
SF	
OCC. CLASS	
LOAD FACTOR	
# OF OCCUPANTS	

- 52 NUMBER OF OCCUPANTS  
10.4 EXIT WIDTH REQUIRED OR 32" MIN. WHICHEVER IS GREATER  
72 EXIT WIDTH PROVIDED

- F.E. (E) WALL MOUNTED FIRE EXTINGUISHER  
F.E. (N) WALL MOUNTED FIRE EXTINGUISHER  
PH INDICATES PANIC HARDWARE

### FLOOR PLAN - LEGEND

- NEW WALL  
(E) 2X6 ONE HOUR STUD WALL

### DRAWING NOTES

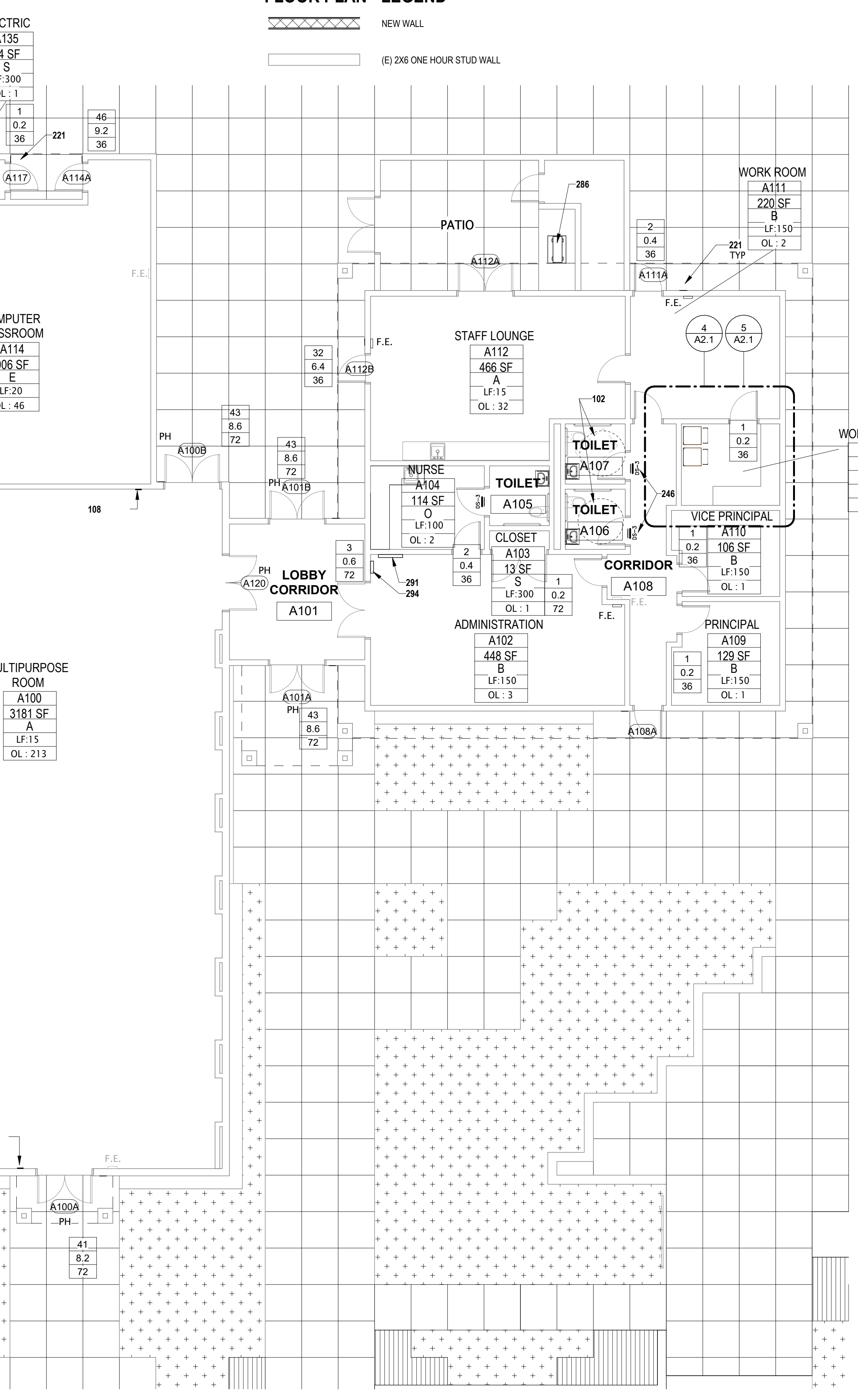
- 30" x 48" MINIMUM CLEAR FLOOR SPACE FOR WHEELCHAIR ACCESS.  
NO FINISH WORK: FLOOR, WALLS, CEILING, DOORS & FRAMES TYPICAL IN WORK ROOM.  
(N) OCCUPANT LOAD SIGN. SEE DETAIL A2A.2  
(E) DOOR TO REMAIN. PROTECT FROM DAMAGE.  
12" SQ VCT TO MATCH EXISTING.  
(N) GYPSUM BOARD ON (E) STUDS WHERE SOFFIT WAS REMOVED. TEXTURE TO MATCH (E). PAINT ENTIRE WALL.  
PROVIDE ROOM IDENTIFICATION SIGNAGE, TYP AT EACH DOOR.  
RESTROOM DOOR AND WALL SIGNAGE, TYP AT EACH RESTROOM DOOR.  
(N) ASSISTED LISTENING SYSTEM SIGN. MOUNT AT MIN 6'-0" A.F.F.  
UNISEX RESTROOM DOOR AND WALL SIGNAGE.  
PLASTIC LAMINATE SINK BASE CASEWORK. INSTALL ON EXISTING CASEWORK.  
PLASTIC LAMINATE COUNTER TOP W/ BACKSPLASH.  
EXISTING TALL CABINET WITH DPF EQUIPMENT. RETROFIT DOOR TO MAKE CABINET LOCKABLE. CUT VENT OPENING IN DOOR AND PROVIDE METAL LOUVER FOR VENTING. DRILL UPPER CABINET FOR CONDUIT PENETRATION.  
ACCESSIBLE SINK & FAUCET WITH DRINKING FOUNTAIN BUBBLER. CONNECT TO (E) PIPING.  
(N) AIR CONDITIONING SPLIT SYSTEM COMPRESSOR ON CONCRETE PAD. SEE MECHANICAL DRAWINGS.  
IT EQUIPMENT RACK. SEE ELECTRICAL DRAWINGS.  
(N) FIRE ALARM CONTROL PANEL. COORDINATE WITH FIRE ALARM DRAWINGS. VERIFY LOCATION WITH DISTRICT.  
(E) FIRE ALARM CONTROL PANEL. TO BE REMOVED. COORDINATE WITH FIRE ALARM DRAWINGS. PATCH WALL & TEXTURE TO MATCH (E). REPAIR ENTIRE WALL.  
(N) FIRE ALARM POWER SUPPLY PANEL. COORDINATE WITH FIRE ALARM DRAWINGS. VERIFY LOCATION WITH DISTRICT.  
(N) INTRUSION ALARM CONTROL PANEL. COORDINATE WITH ELECTRICAL DRAWINGS. VERIFY LOCATION WITH DISTRICT.

### DEMOLITION GENERAL NOTES

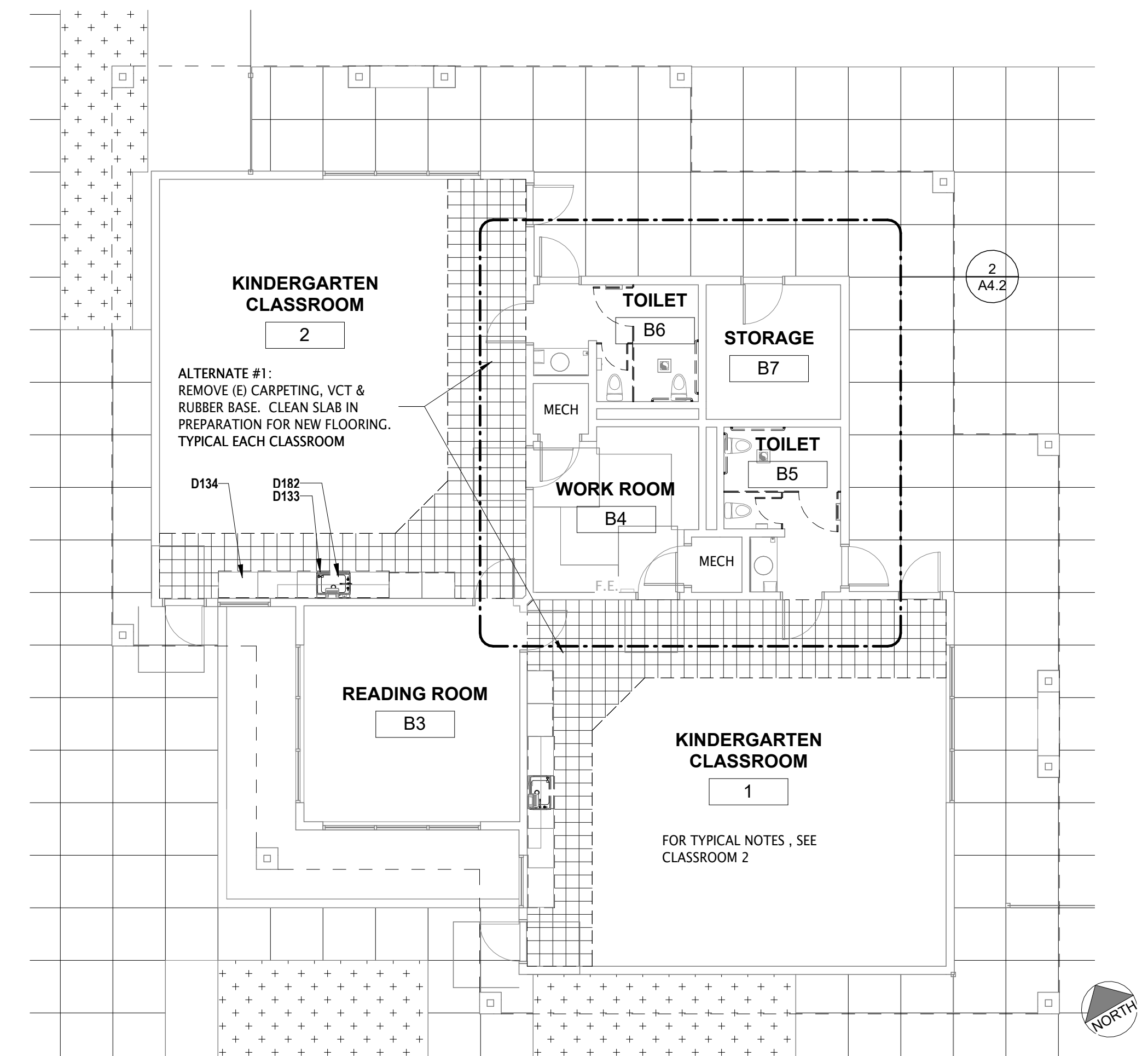
- A. SEE SHEET G0.1, PROJECT NOTE 12 REGARDING FIRE SAFETY DURING DEMOLITION AND CONSTRUCTION.  
B. AT EXTERIOR WALLS MAKE CUTS TIGHT TO PENETRATING ITEMS AND SEAL W/ JOINT SEALANTS.  
C. REMOVE (E) GYPSUM BOARD AT LOCATIONS OF NEW CASEWORK AS NECESSARY FOR INSTALLATION OF BLOCKING IN WALL.  
D. FOR ADDITIONAL INFORMATION SEE MECHANICAL, PLUMBING & ELECTRICAL DRAWINGS.  
E. WORK SHALL BE IN ACCORDANCE WITH APPLICABLE CODES AS NOTED ON THE TITLE SHEET.  
F. PRESERVE AND PROTECT EXISTING CONDITIONS THAT ARE TO REMAIN. SECURE THE PROPERTY DURING CONSTRUCTION.  
G. IN AREAS OF WORK, VERIFY AND LOCATE EXISTING UNDERGROUND UTILITIES AND AVOID DAMAGE TO SAME.  
H. CONDITIONS OBSERVED ON SITE WHICH SHALL AFFECT THE DEMOLITION, THAT ARE NOT OTHERWISE NOTED IN THESE DOCUMENTS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT.  
I. ITEMS NOTED TO BE REMOVED AND NOT RELOCATED ARE TO BE REMOVED FROM THE SITE AND DISPOSED OF IN THE PROPER MANNER.  
J. FOR PROJECT GOVERNING CODES SEE SHEET G0.1.

### GENERAL NOTES

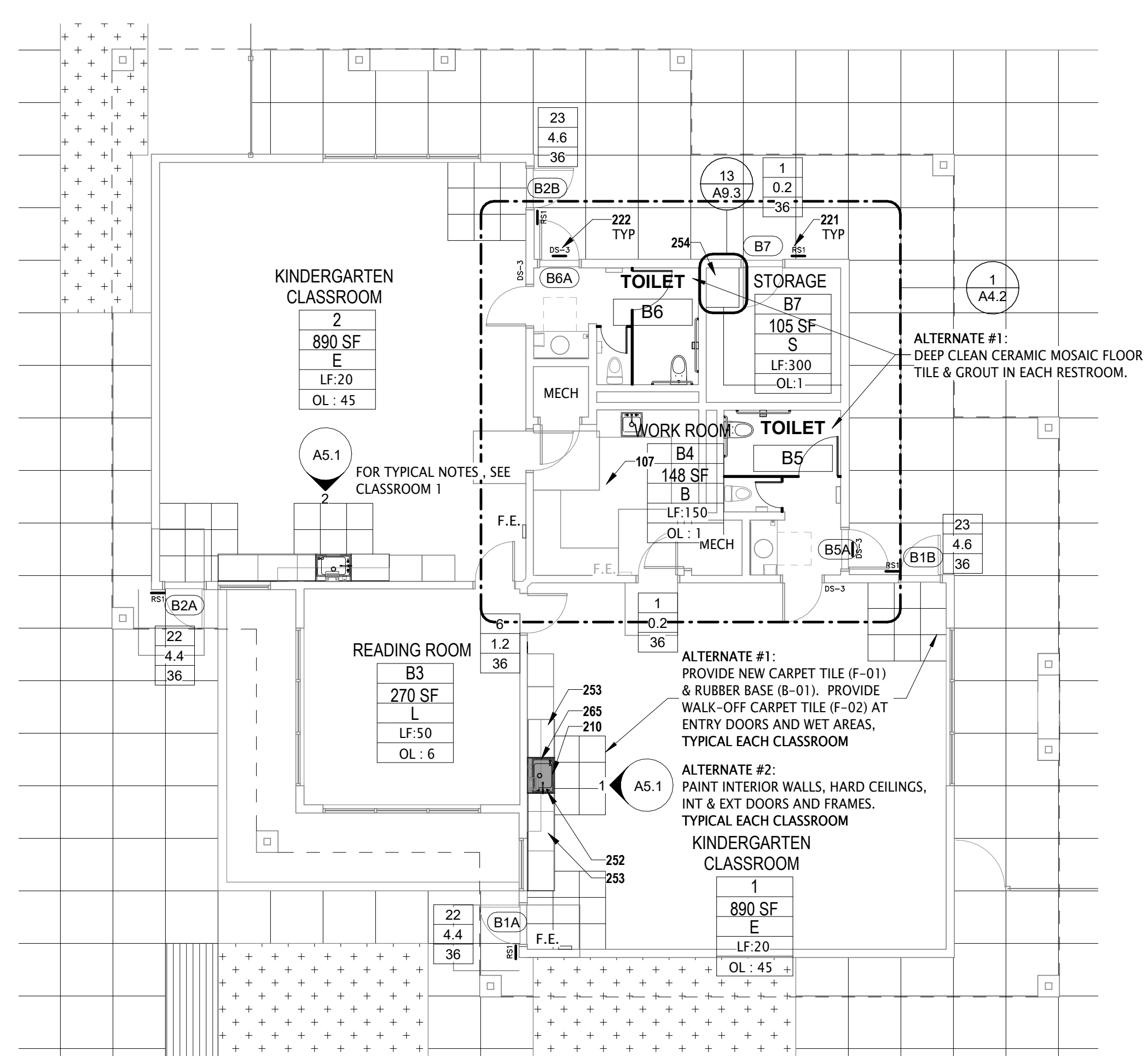
- A. FOR ADDITIONAL INFORMATION SEE MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS.  
B. FOR DOOR SCHEDULE AND DOOR LEGEND, SEE SHEET A10.1  
C. FOR WALL TYPES AND WALL FRAMING DETAILS, SEE SHEET A8.2  
D. FOR INTERIOR ELEVATIONS, SEE SHEETS A5.1 A5.2 8/A9.2  
E. FOR MOUNTING HEIGHTS AND DIMENSIONS SEE DETAIL 8/A9.2  
F. FOR ACCESSIBILITY CLEARANCES AND DIMENSIONS SEE SHEET A9.1  
G. DIMENSIONS: DIMENSIONS ARE SHOWN TO FACE OF WALL, U.N.O.  
H. FOR SIGNAGE REQUIREMENTS, SEE SHEET A9.2  
I. FOR ACCESSIBLE CONTROL HEIGHTS SEE DETAIL 7/A9.2



FLOOR PLAN - BUILDING B (LAKE TAHOE) 1/8" = 1'-0"



3 DEMOLITION PLAN - BUILDING B (LAKE TAHOE) 1/8" = 1'-0"



2 FLOOR PLAN - BUILDING B (LAKE TAHOE) 1/8" = 1'-0"

dsaa

IDENTIFICATION STAMP  
DIV. OF THE STATE ARCHITECT  
APP: 02-121265 INC:  
REVIEWED FOR  
SS ☐ FLS ☒ ACS ☒  
DATE: 05/24/2023

architect  
**AC MARTIN**  
3009 DOUGLAS BLVD. SUITE 290  
ROSEVILLE, CA 95661 T 916 772 1800

stamp

consultant

project number CA5602  
project director  
project designer  
project architect

revisions  
no. date revision

project status  
**DSA BACKCHECK - V2**  
**4-25-2023**

client / project

sheet name

FLOOR PLANS & DEMOLITION PLANS  
BUILDINGS A&B

sheet number

OAK HILL ES  
HARDSHIP  
MODERNIZATION  
CJUSD  
3909 NORTH LOOP BLVD  
ANTELOPE, CA 95843

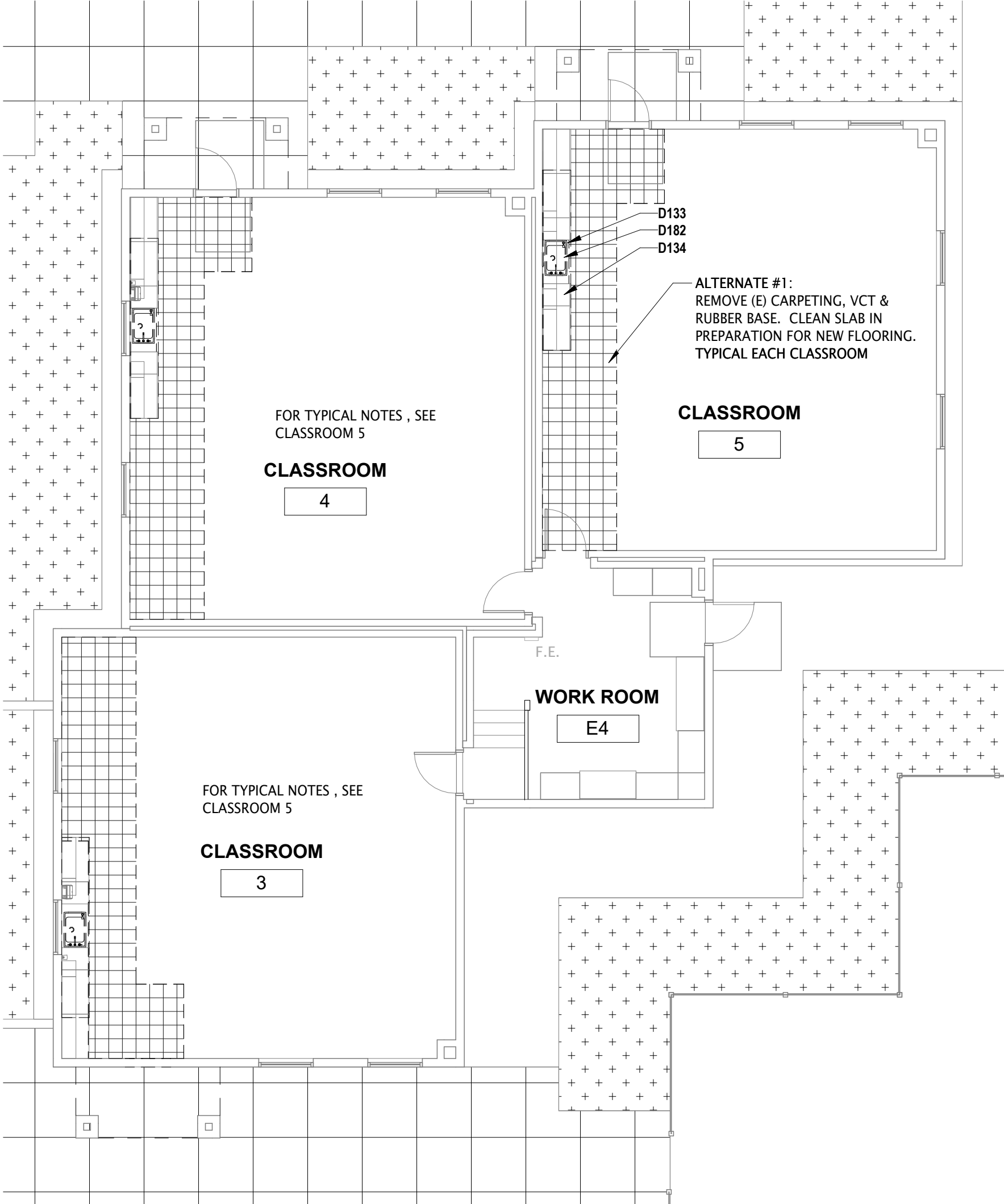
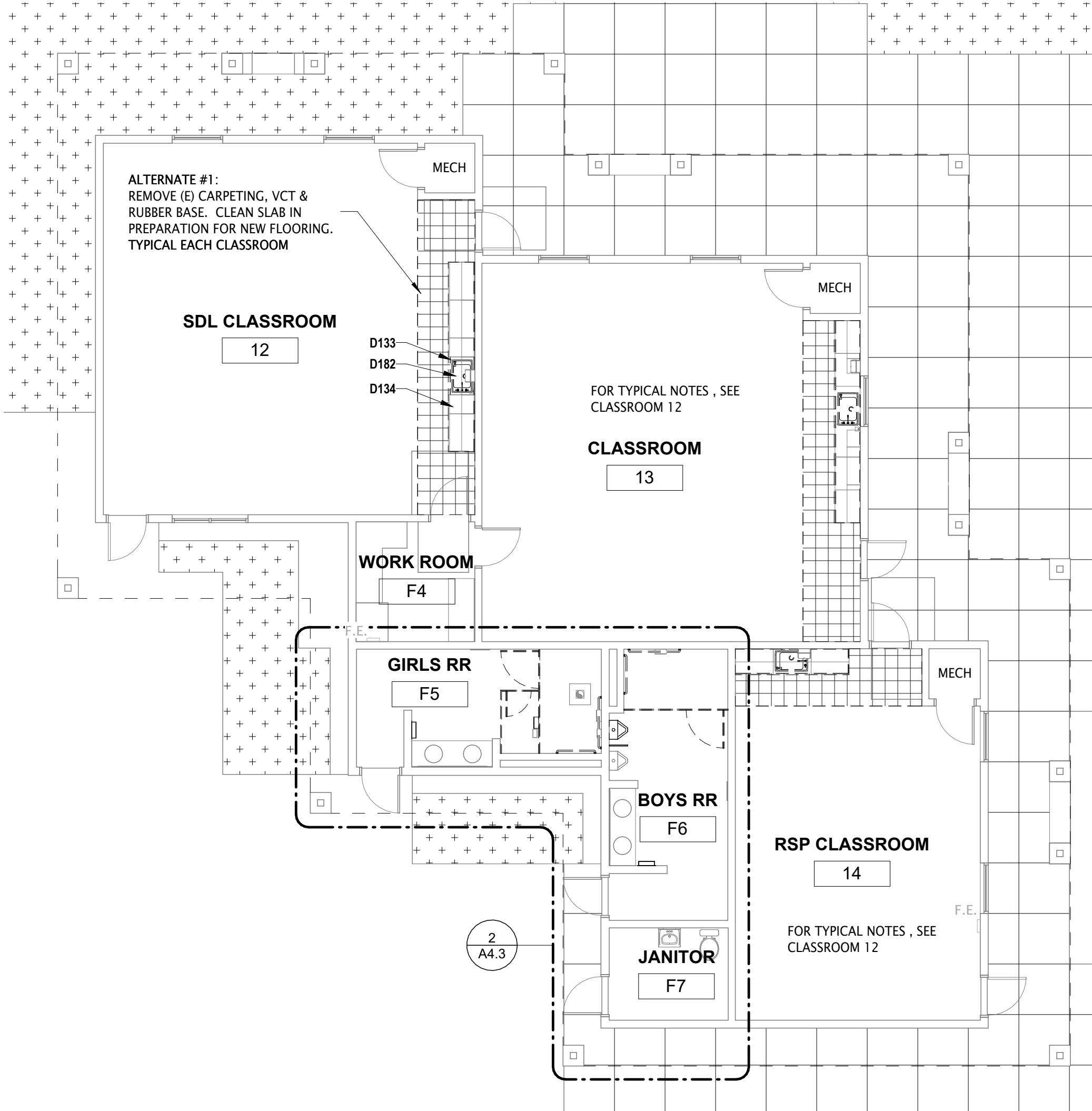
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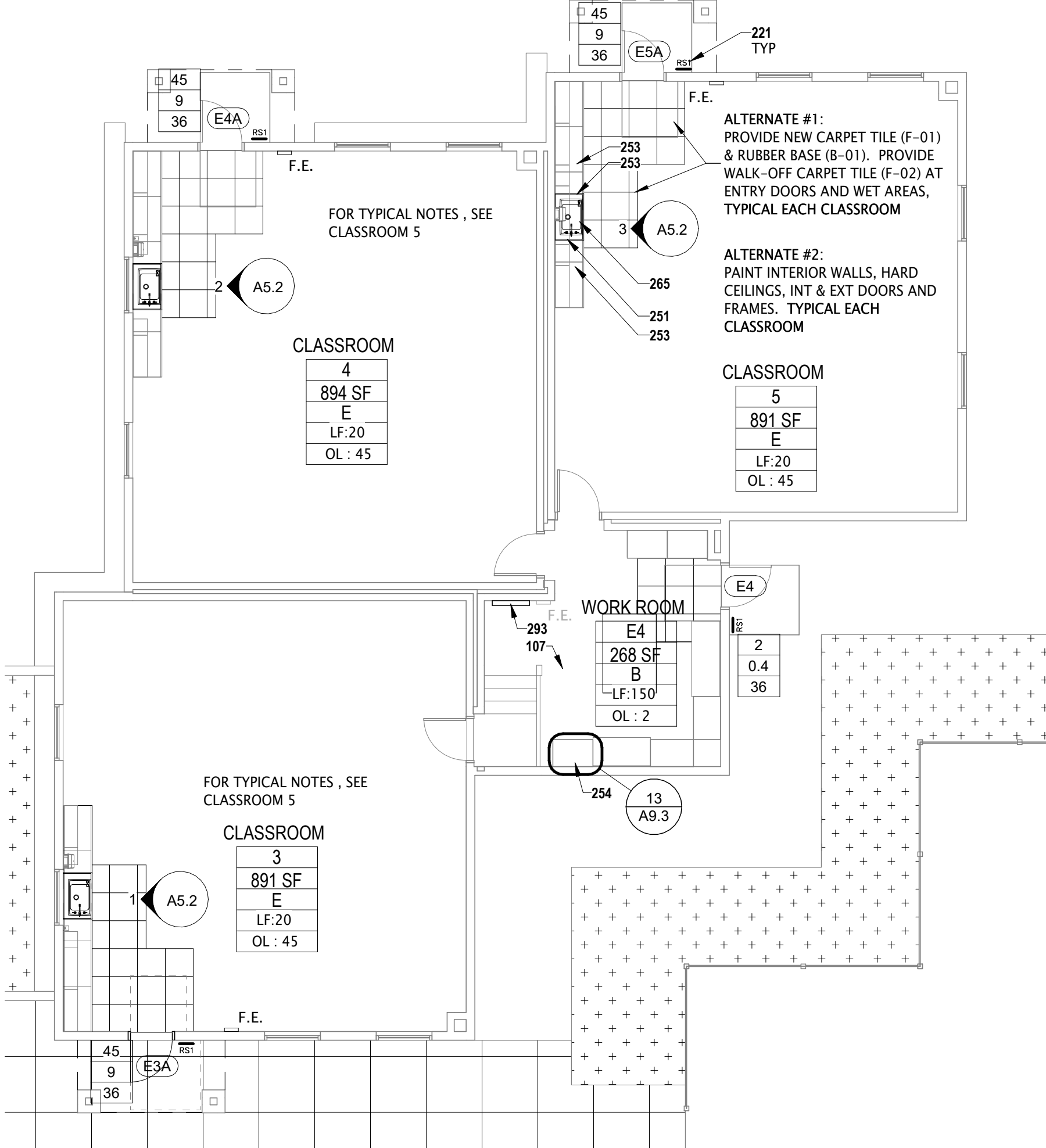
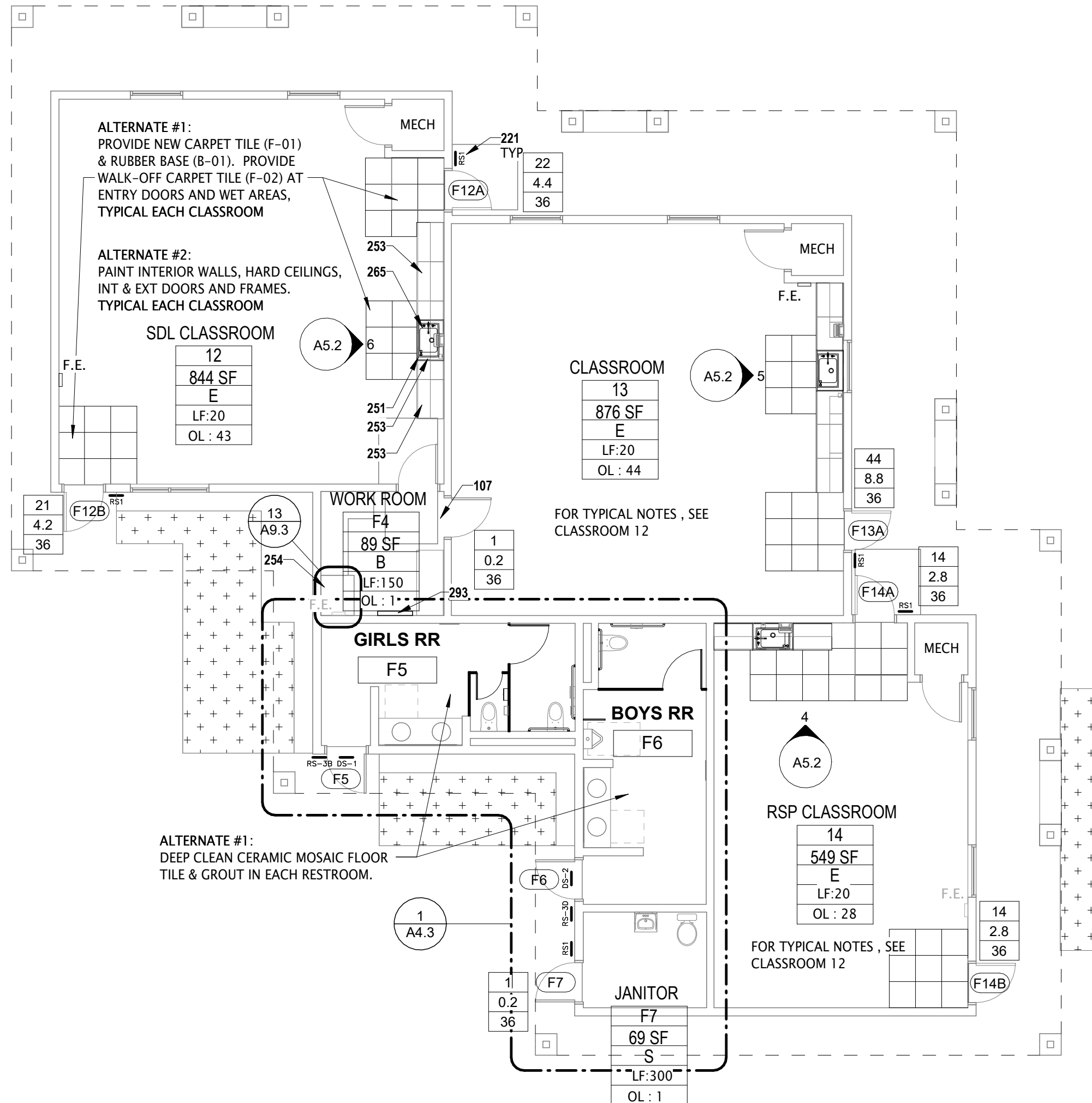






4 DEMOLITION PLAN - BUILDING F (SAN FRANCISCO)  
1/8" = 1'-0"

2 DEMOLITION PLAN - BUILDING E (EMERALD BAY)  
1/8" = 1'-0"



3 FLOOR PLAN - BUILDING F (SAN FRANCISCO)  
1/8" = 1'-0"

1 FLOOR PLAN - BUILDING E (EMERALD BAY)  
1/8" = 1'-0"

DEMOLITION GENERAL NOTES

- A. SEE SHEET G0.1, PROJECT NOTE 12 REGARDING FIRE SAFETY DURING DEMOLITION AND CONSTRUCTION.
- B. AT EXTERIOR WALLS MAKE CUTS TIGHT TO PENETRATING ITEMS AND SEAL W/ JOINT SEALANTS.
- C. REMOVE (E) GYPSUM BOARD AT LOCATIONS OF NEW CASEWORK AS NECESSARY FOR INSTALLATION OF BLOCKING IN WALL.
- D. FOR ADDITIONAL INFORMATION SEE MECHANICAL, PLUMBING & ELECTRICAL DRAWINGS.
- E. WORK SHALL BE IN ACCORDANCE WITH APPLICABLE CODES AS NOTED ON THE TITLE SHEET.
- F. PRESERVE AND PROTECT EXISTING CONDITIONS THAT ARE TO REMAIN. SECURE THE PROPERTY DURING CONSTRUCTION.
- G. IN AREAS OF WORK, VERIFY & LOCATE EXISTING UNDERGROUND UTILITIES AND AVOID DAMAGE TO SAME.
- H. CONDITIONS OBSERVED ON SITE WHICH SHALL AFFECT THE DEMOLITION, THAT ARE NOT OTHERWISE NOTED IN THESE DOCUMENTS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT.
- I. ITEMS NOTED TO BE REMOVED AND NOT RELOCATED ARE TO BE REMOVED FROM THE SITE AND DISPOSED OF IN THE PROPER MANNER.
- J. FOR PROJECT GOVERNING CODES SEE SHEET G0.1.

GENERAL NOTES

- A. FOR ADDITIONAL INFORMATION SEE MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS.
- B. FOR DOOR SCHEDULE AND DOOR LEGEND, SEE SHEET **A10.1**
- C. FOR WALL TYPES AND WALL FRAMING DETAILS, SEE SHEET **A8.2**
- D. FOR INTERIOR ELEVATIONS, SEE SHEETS **A5.1**, **A5.2**, **8/A9.2**
- E. FOR MOUNTING HEIGHTS AND DIMENSIONS SEE DETAIL **8/A9.2**
- F. FOR ACCESSIBILITY CLEARANCES AND DIMENSIONS SEE SHEET **A9.1**
- G. DIMENSIONS: DIMENSIONS ARE SHOWN TO FACE OF WALL, U.N.O.
- H. FOR SIGNAGE REQUIREMENTS, SEE SHEET **A9.2**
- I. FOR ACCESSIBLE CONTROL HEIGHTS SEE DETAIL **7/A9.2**

DEMOLITION NOTES

- D133 REMOVE (E) SINK BASE CABINET.
- D134 REMOVE (E) PLASTIC LAMINATE COUNTER TOP, FULL LENGTH.
- D182 REMOVE (E) SINK, FAUCET & ASSOCIATED PIPING. NEW FIXTURE TO CONNECT TO (E) PIPING.

DRAWING NOTES

- 107 NO FINISH WORK: FLOOR, WALLS, CEILING, DOORS & FRAMES TYPICAL IN WORK ROOM.
- 221 PROVIDE ROOM IDENTIFICATION SIGNAGE, TYP AT EACH DOOR.
- 251 PLASTIC LAMINATE SINK BASE CABINET. INSERT BETWEEN (E) CASEWORK.
- 253 PLASTIC LAMINATE COUNTER TOP W/ BACKSPLASH.
- 254 EXISTING TALL CABINET WITH IDF EQUIPMENT. RETROFIT DOOR TO MAKE CABINET LOCKABLE. CUT VENT OPENING IN DOOR AND PROVIDE METAL LOUVER FOR VENTING. DRILL UPPER CABINET FOR CONDUIT PENETRATION.
- 265 ACCESSIBLE SINK & FAUCET WITH DRINKING FOUNTAIN BUBBLER. CONNECT TO (E) PIPING.
- 293 (N) FIRE ALARM POWER SUPPLY PANEL. COORDINATE WITH FIRE ALARM DRAWINGS. VERIFY LOCATION WITH DISTRICT.

EXIT ANALYSIS LEGEND

EXIT REQUIREMENTS & EGRESS WIDTHS

EXITS REQUIRED (PER CBC1021.3)  
OCCUPANCY 1-500 = 2  
OCCUPANCY 501-1,000 = 3  
OCCUPANCY > 1,000 = 4

MIN. EGRESS WIDTHS (PER CBC 1005.3.2)  
DOOR WIDTH = 0.2' / OCCUPANT

ROOM NAME
ROOM NUMBER
SF
OCC. CLASS
LOAD FACTOR
# OF OCCUPANTS

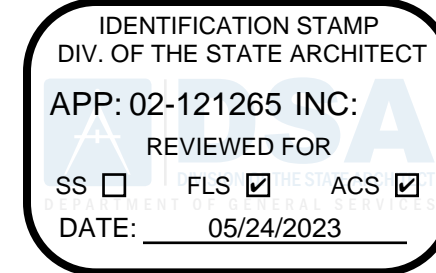
62 NUMBER OF OCCUPANTS  
10.4 EXIT WIDTH REQUIRED OR 32" MIN.  
72 WHICHEVER IS GREATER  
EXIT WIDTH PROVIDED

- F.E. (E) WALL MOUNTED FIRE EXTINGUISHER
- F.E. (N) WALL MOUNTED FIRE EXTINGUISHER
- 'PH' INDICATES PANIC HARDWARE

WALL LEGEND

(E) 2X6 ONE HOUR STUD WALL

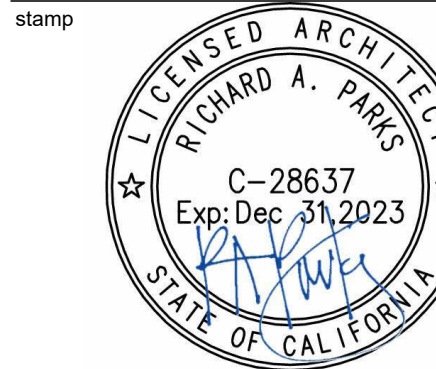
dsa



architect



stamp



consultant

project number CA5602  
project director  
project designer  
project architect

revisions  
no. date revision

project status

DSA BACKCHECK - V2  
4-25-2023

client / project

OAK HILL ES  
HARDSHIP  
MODERNIZATION

CJUSD  
3909 NORTH LOOP BLVD  
ANTELOPE, CA 95843

sheet name

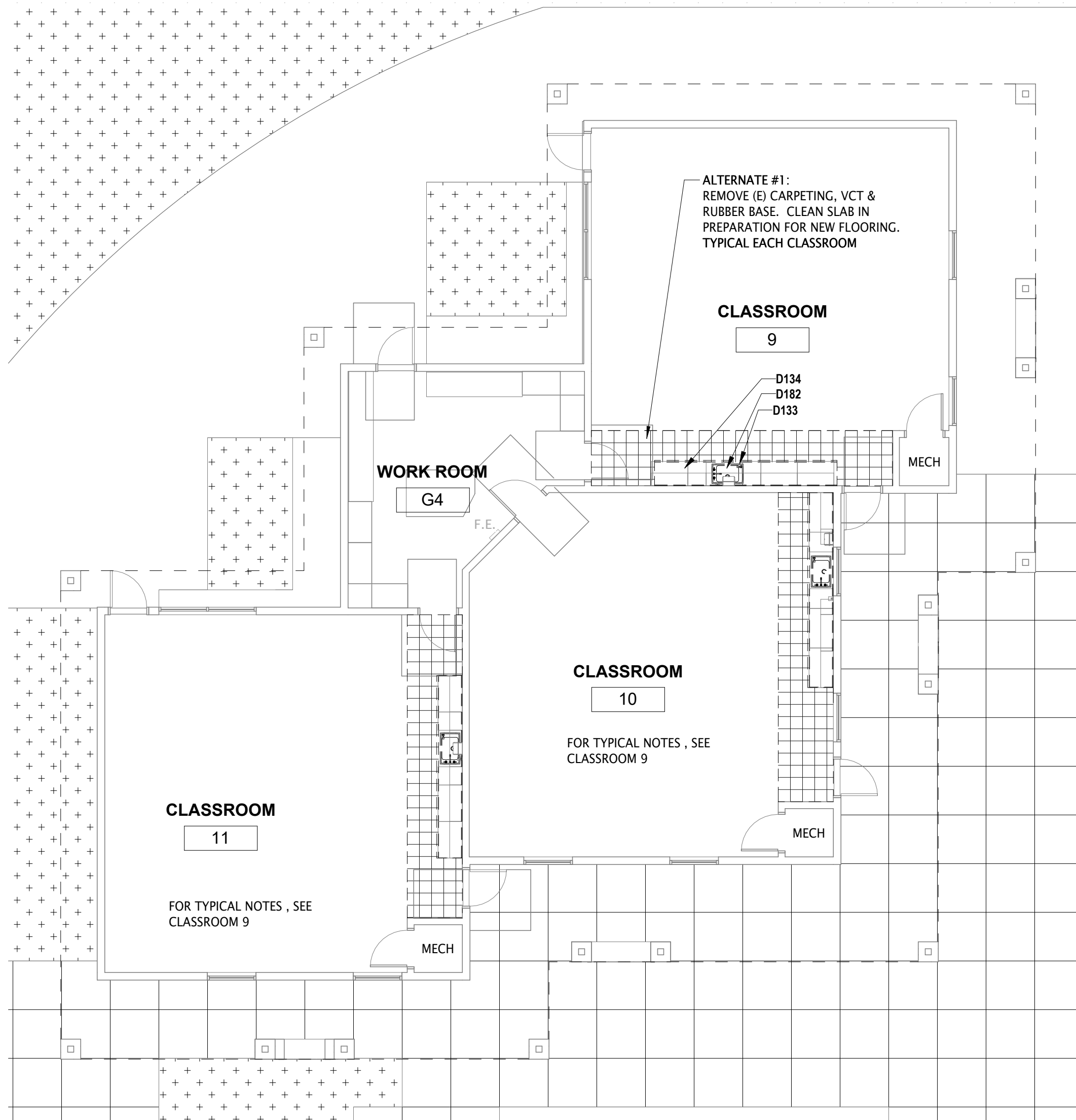
FLOOR PLANS &  
DEMOLITION PLANS  
BUILDINGS E&F

sheet number

A2.3

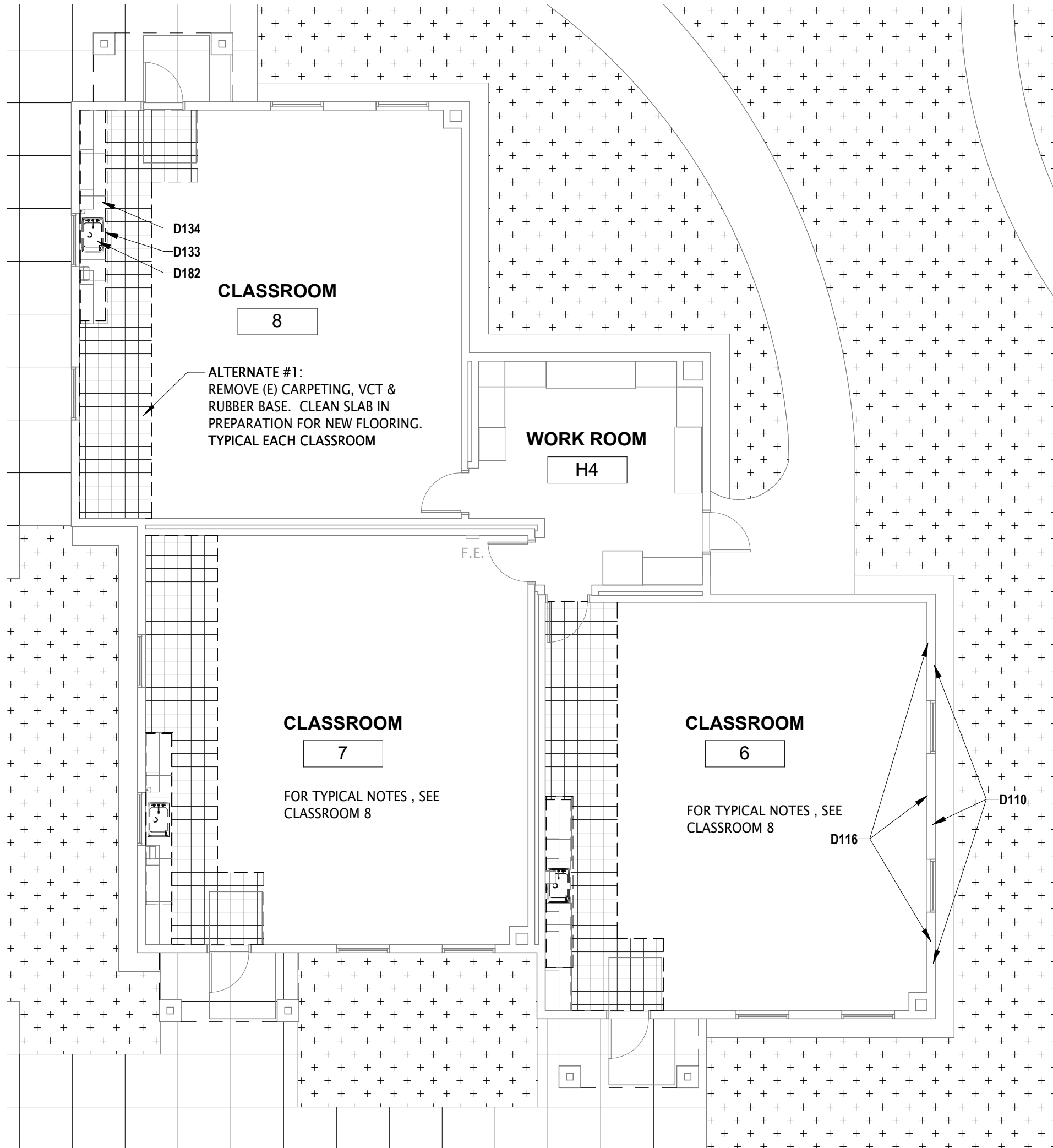
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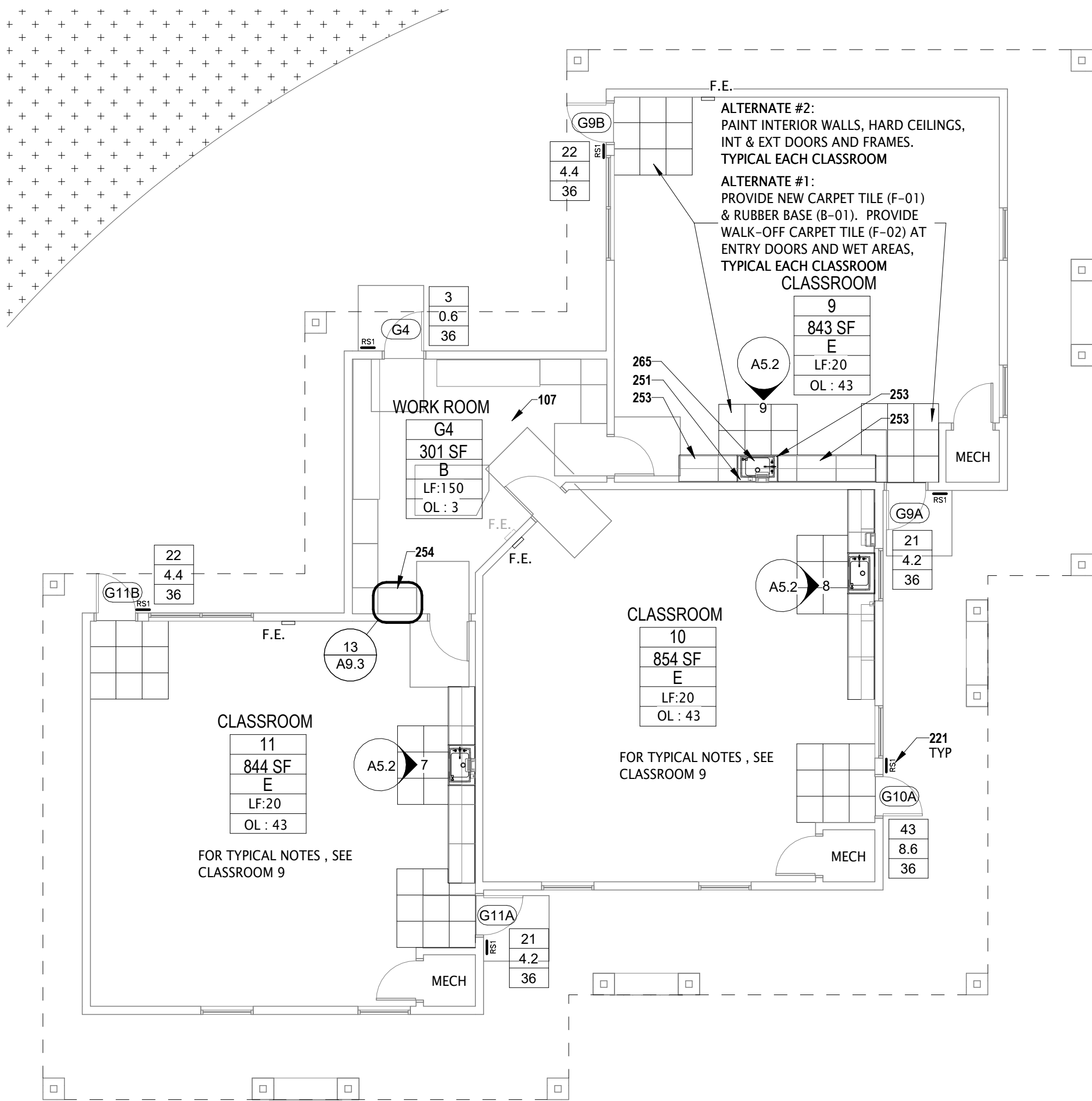
4 DEMOLITION PLAN - BUILDING G (MONTEREY BAY)

1/8" = 1'-0"



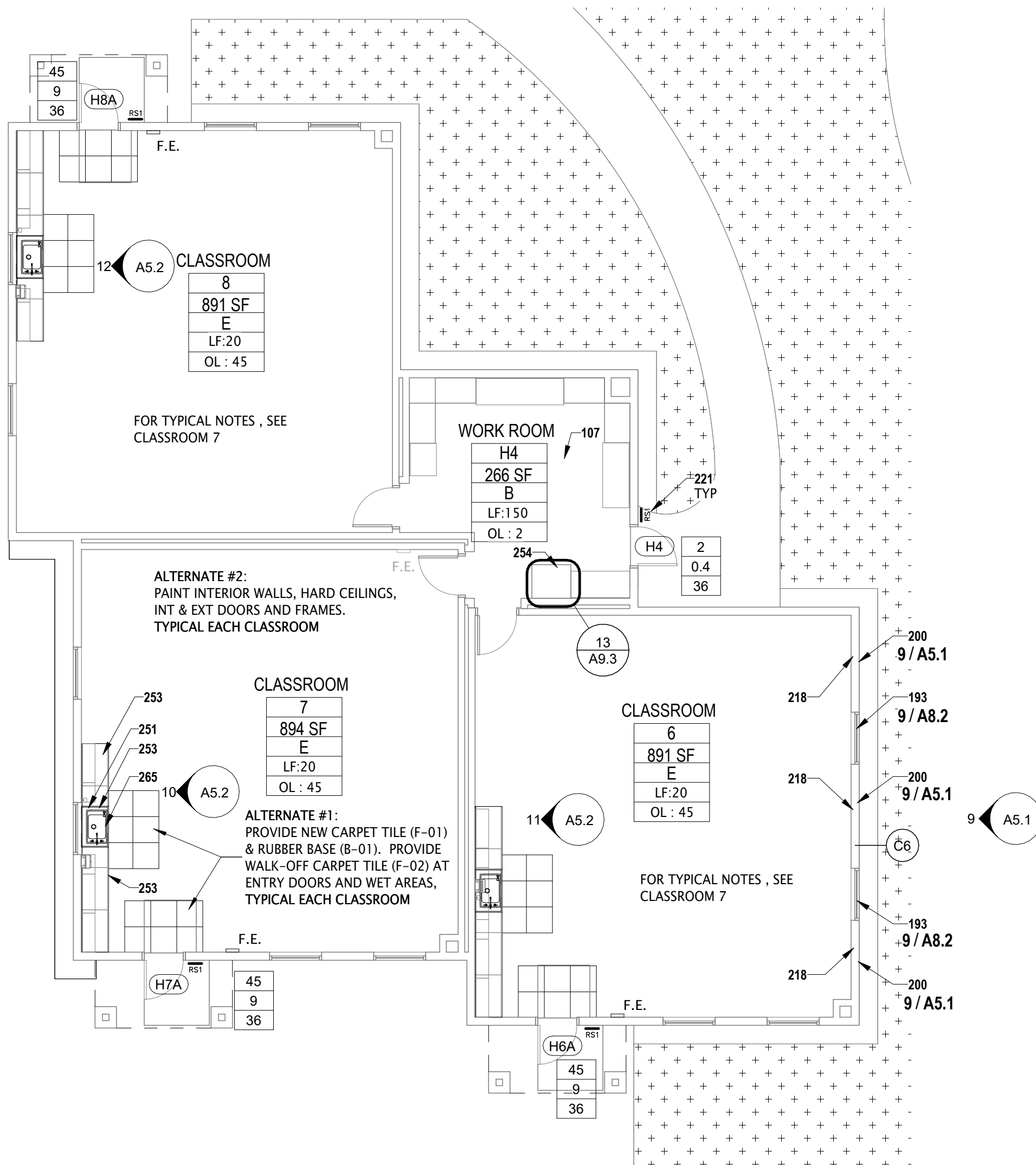
2 DEMOLITION PLAN - BUILDING H (SHASTA LAKE)

1/8" = 1'-0"



3 FLOOR PLAN - BUILDING G (MONTEREY BAY)

1/8" = 1'-0"



1 FLOOR PLAN - BUILDING H (SHASTA LAKE)

1/8" = 1'-0"



DEMOLITION GENERAL NOTES

- A. SEE SHEET G0.1, PROJECT NOTE 12 REGARDING FIRE SAFETY DURING DEMOLITION AND CONSTRUCTION.
- B. AT EXTERIOR WALLS MAKE CUTS TIGHT TO PENETRATING ITEMS AND SEAL W/ JOINT SEALANTS.
- C. REMOVE (E) GYPSUM BOARD AT LOCATIONS OF NEW CASEWORK AS NECESSARY FOR INSTALLATION OF BLOCKING IN WALL.
- D. FOR ADDITIONAL INFORMATION SEE MECHANICAL, PLUMBING & ELECTRICAL DRAWINGS.
- E. WORK SHALL BE IN ACCORDANCE WITH APPLICABLE CODES AS NOTED ON THE TITLE SHEET.
- F. PRESERVE AND PROTECT EXISTING CONDITIONS THAT ARE TO REMAIN. SECURE THE PROPERTY DURING CONSTRUCTION.
- G. IN AREAS OF WORK, VERIFY AND LOCATE EXISTING UNDERGROUND UTILITIES AND AVOID DAMAGE TO SAME.
- H. CONDITIONS OBSERVED ON SITE WHICH SHALL AFFECT THE DEMOLITION, THAT ARE NOT OTHERWISE NOTED IN THESE DOCUMENTS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT.
- I. ITEMS NOTED TO BE REMOVED AND NOT RELOCATED ARE TO BE REMOVED FROM THE SITE AND DISPOSED OF IN THE PROPER MANNER.
- J. FOR PROJECT GOVERNING CODES SEE SHEET G0.1.

GENERAL NOTES

- A. FOR ADDITIONAL INFORMATION SEE MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS.
- B. FOR DOOR SCHEDULE AND DOOR LEGEND, SEE SHEET **A10.1**.
- C. FOR WALL TYPES AND WALL FRAMING DETAILS, SEE SHEET **A8.2**.
- D. FOR INTERIOR ELEVATIONS, SEE SHEETS **A5.1** **A5.2** **8/A9.2**.
- E. FOR MOUNTING HEIGHTS AND DIMENSIONS SEE DETAIL **8/A9.2**.
- F. FOR ACCESSIBILITY CLEARANCES AND DIMENSIONS SEE SHEET **A9.1**.
- G. DIMENSIONS: DIMENSIONS ARE SHOWN TO FACE OF WALL, U.N.O.
- H. FOR SIGNAGE REQUIREMENTS, SEE SHEET **A8.2**.
- I. FOR SIGNAGE REQUIREMENTS, SEE SHEET **A8.2**.
- L. FOR ACCESSIBLE CONTROL HEIGHTS SEE DETAIL **7/A9.2**.

DEMOLITION NOTES

- D110 REMOVE (E) CEMENT PLASTER, LATH & UNDERLAYMENT TO WALL SHEATHING, TO EXTENT INDICATED ON EXTERIOR ELEVATION.
- D116 REMOVE (E) GYPSUM BOARD & BATT INSULATION AT THIS WALL.
- D133 REMOVE (E) SINK BASE CABINET.
- D134 REMOVE (E) PLASTIC LAMINATE COUNTER TOP, FULL LENGTH.
- D182 REMOVE (E) SINK, FAUCET & ASSOCIATED PIPING. NEW FIXTURE TO CONNECT TO (E) PIPING.

DRAWING NOTES

- 107 NO FINISH WORK: FLOOR, WALLS, CEILING, DOORS & FRAMES TYPICAL IN WORK ROOM.
- 193 (E) H.M. WINDOW TO REMAIN.
- 200 (N) CEMENT PLASTER ON LATH OVER WEATHER RESISTIVE BARRIER.
- 218 5/8" GYPSUM BOARD OVER INTERIOR FACE OF (E) STUDS. FILL STUD SPACES W/ R-19 BATT INSULATION.
- 221 PROVIDE ROOM IDENTIFICATION SIGNAGE, TYP AT EACH DOOR.
- 251 PLASTIC LAMINATE SINK BASE CABINET. INSERT BETWEEN (E) CASEWORK.
- 253 PLASTIC LAMINATE COUNTER TOP W/ BACKSPLASH.
- 254 EXISTING TALL CABINET WITH IDF EQUIPMENT. RETROFIT DOOR TO MAKE CABINET LOCKABLE. CUT VENT OPENING IN DOOR AND PROVIDE METAL LOUVER FOR VENTING. DRILL UPPER CABINET FOR CONDUIT PENETRATION.
- 265 ACCESSIBLE SINK & FAUCET WITH DRINKING FOUNTAIN BUBBLER. CONNECT TO (E) PIPING.

EXIT ANALYSIS LEGEND

EXIT REQUIREMENTS & EGRESS WIDTHS

EXITS REQUIRED (PER CBC 1021.3)  
OCCUPANCY 1-500 = 2  
OCCUPANCY 501-1,000 = 3  
OCCUPANCY > 1,000 = 4

MIN. EGRESS WIDTHS (PER CBC 1005.3.2)  
DOOR WIDTH = 0.2' / OCCUPANT

ROOM NAME
ROOM NUMBER
SF
OCC. CLASS
LOAD FACTOR
# OF OCCUPANTS

52 — NUMBER OF OCCUPANTS  
10.4 — EXIT WIDTH REQUIRED OR 32" MIN. WHICHEVER IS GREATER  
72 — EXIT WIDTH PROVIDED

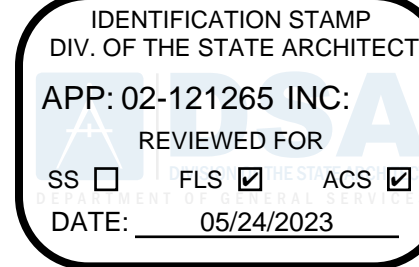
F.E. (E) WALL MOUNTED FIRE EXTINGUISHER  
F.E. (N) WALL MOUNTED FIRE EXTINGUISHER

'PH' INDICATES PANIC HARDWARE

WALL LEGEND

(E) 2X6 ONE HOUR STUD WALL

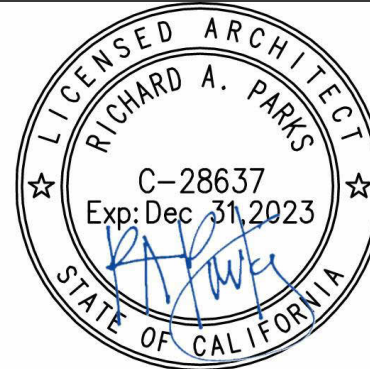
dsa



architect

AC MARTIN  
3009 DOUGLAS BLVD, SUITE 290  
ROSEVILLE, CA 95661 T 916 772 1800

stamp



consultant

project number CA5602  
project director  
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revisions

no. date revision

project status

DSA BACKCHECK - V2  
4-25-2023

client / project

OAK HILL ES  
HARDSHIP  
MODERNIZATION

CJUSD  
3909 NORTH LOOP BLVD  
ANTELOPE, CA 95843

sheet name

FLOOR PLANS &  
DEMOLITION PLANS  
BUILDINGS G&H

sheet number

A2.4

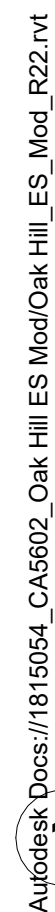
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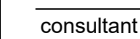



$$1/8" = 1'-0"$$

dsd

architect

stamp



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project status

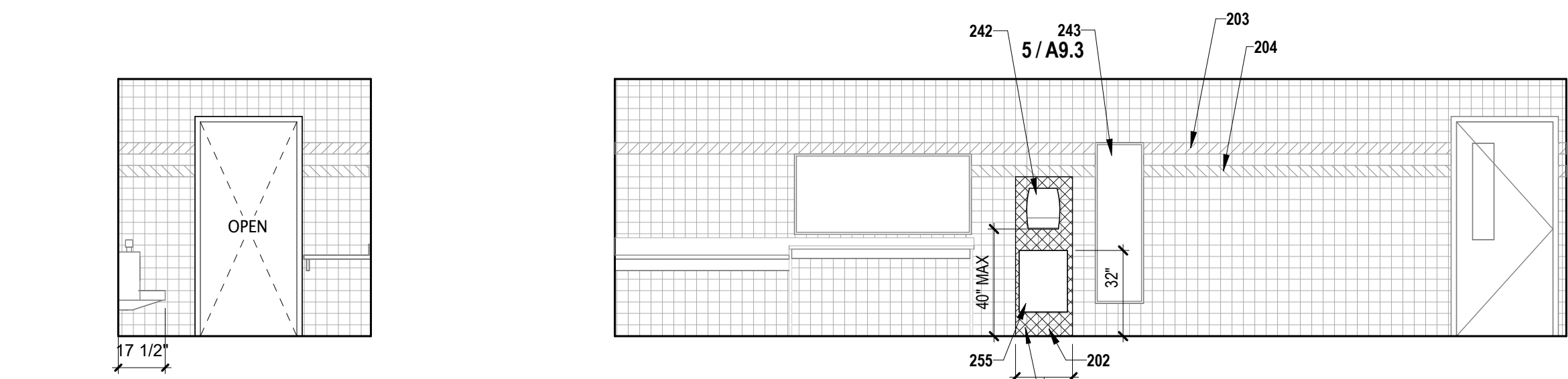
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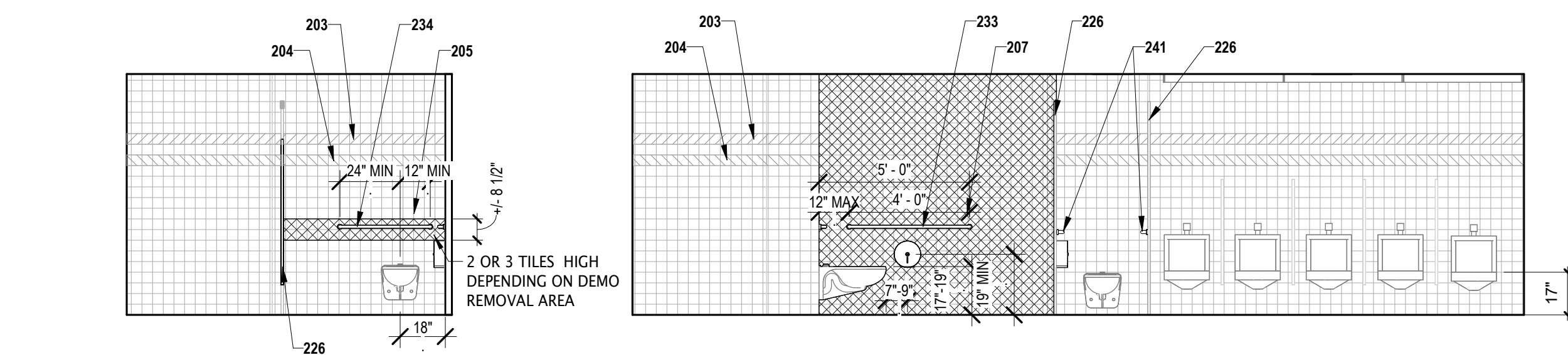




6 A116 SOUTH  
1/4" = 1'-0"

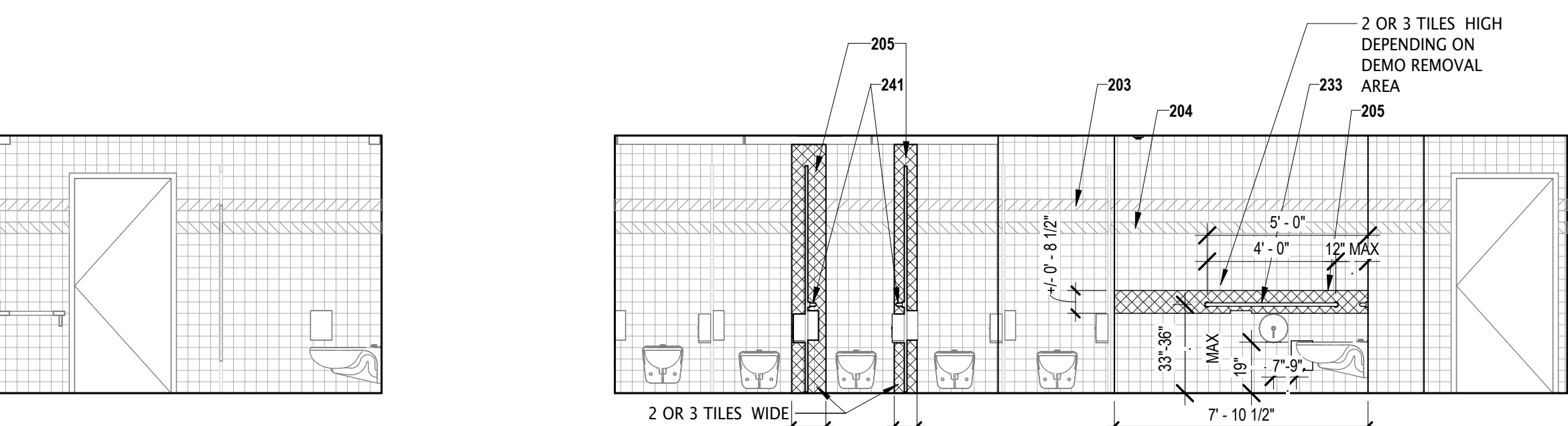
5 A116 WEST  
1/4" = 1'-0"

BUILDING A – BOYS RESTROOM A116



4 A116 NORTH  
1/4" = 1'-0"

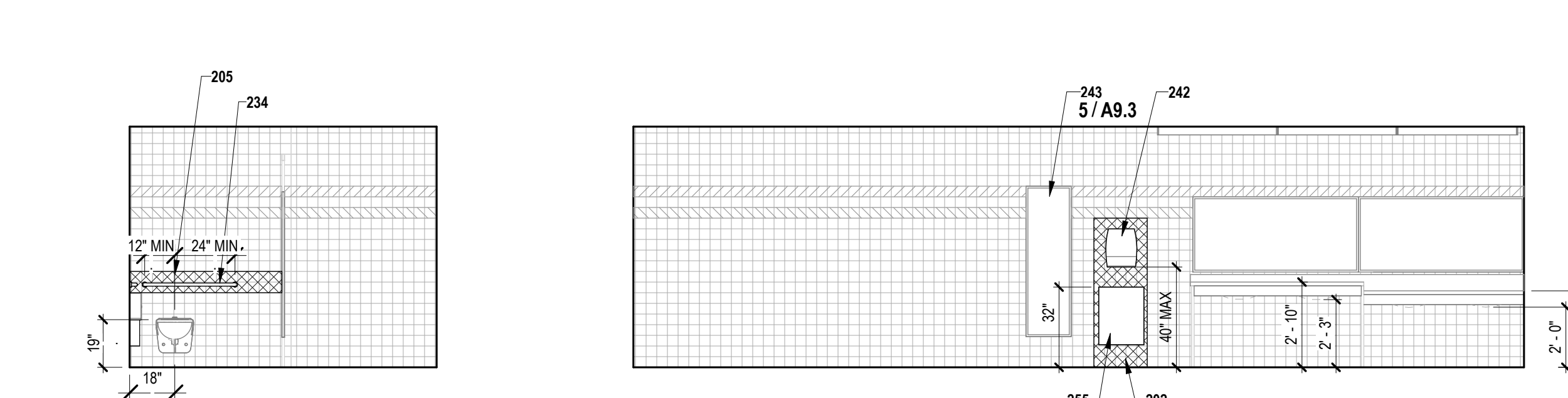
3 A116 EAST  
1/4" = 1'-0"



10 A115 SOUTH  
1/4" = 1'-0"

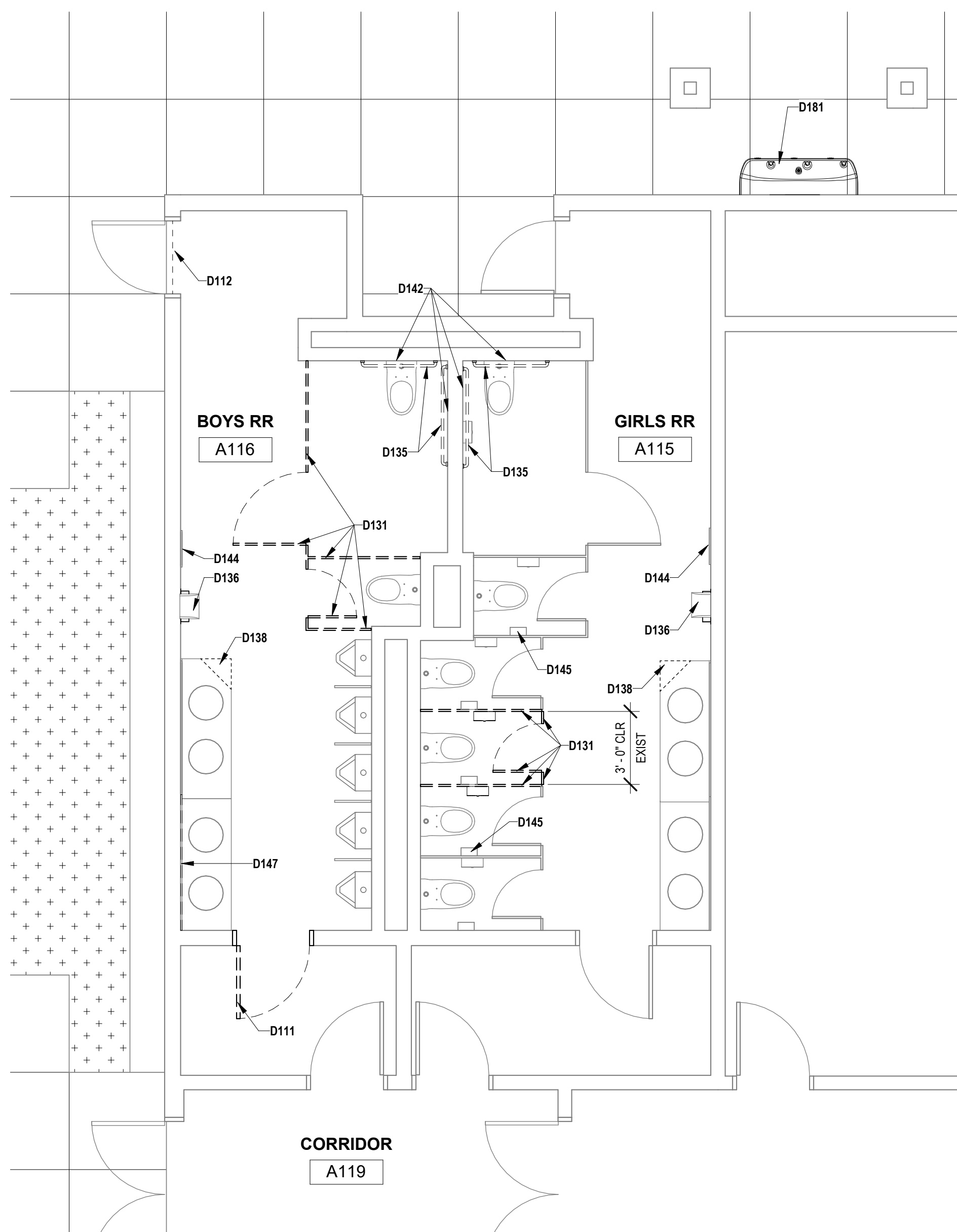
9 A115 WEST  
1/4" = 1'-0"

BUILDING A – GIRLS RESTROOM A115

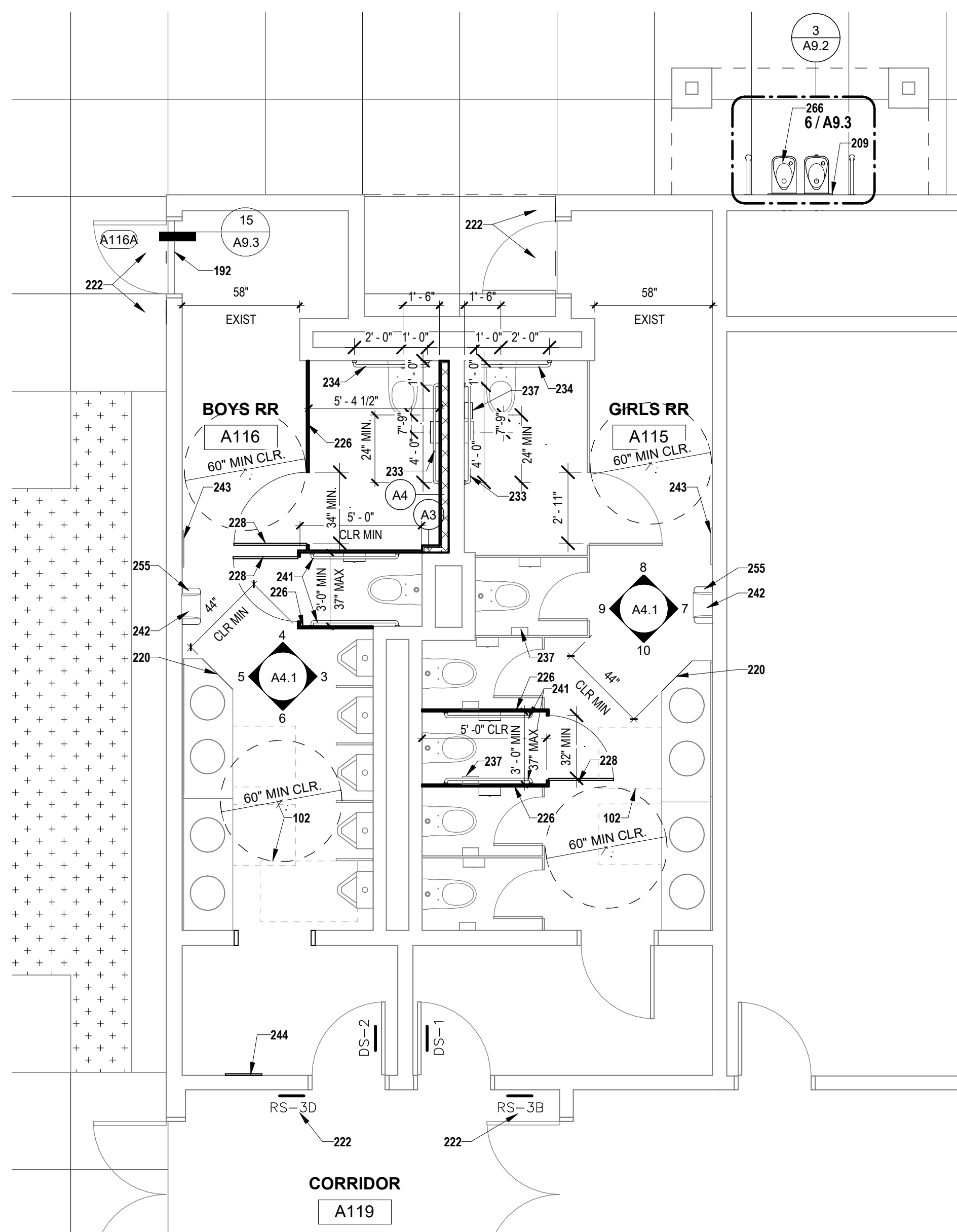


8 A115 NORTH  
1/4" = 1'-0"

7 A115 EAST  
1/4" = 1'-0"



2 RESTROOM DEMOLITION PLAN - BUILDING A  
1/4" = 1'-0"



1 RESTROOM PLAN - BUILDING A  
1/4" = 1'-0"

DEMOLITION GENERAL NOTES

- A. SEE SHEET G0.1, PROJECT NOTE 12 REGARDING FIRE SAFETY DURING DEMOLITION AND CONSTRUCTION.  
B. AT EXTERIOR WALLS MAKE CUTS TIGHT TO PENETRATING ITEMS AND SEAL W/ JOINT SEALANTS.  
C. REMOVE (E) GYPSUM BOARD AT LOCATIONS OF NEW CASEWORK AS NECESSARY FOR INSTALLATION OF BLOCKING IN WALL.  
D. FOR ADDITIONAL INFORMATION SEE MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS.  
E. WORK SHALL BE IN ACCORDANCE WITH APPLICABLE CODES AS NOTED ON THE TITLE SHEET.  
F. PRESERVE AND PROTECT EXISTING CONDITIONS THAT ARE TO REMAIN. SECURE THE PROPERTY DURING CONSTRUCTION.  
G. IN AREAS OF WORK, VERIFY AND LOCATE EXISTING UNDERGROUND UTILITIES AND AVOID DAMAGE TO SAME.  
H. CONDITIONS OBSERVED ON SITE WHICH SHALL AFFECT THE DEMOLITION, THAT ARE NOT OTHERWISE NOTED IN THESE DOCUMENTS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT.  
I. ITEMS NOTED TO BE REMOVED AND NOT RELOCATED ARE TO BE REMOVED FROM THE SITE AND DISPOSED OF IN THE PROPER MANNER.  
J. FOR PROJECT GOVERNING CODES SEE SHEET G0.1.

GENERAL NOTES

- A. FOR ADDITIONAL INFORMATION SEE MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS.  
B. FOR DOOR SCHEDULE AND DOOR LEGEND, SEE SHEET A10.1  
C. FOR WALL TYPES AND WALL FRAMING DETAILS, SEE SHEET A8.2  
D. FOR INTERIOR ELEVATIONS, SEE SHEETS A5.1, A5.2  
E. FOR MOUNTING HEIGHTS AND DIMENSIONS SEE DETAIL 8 / A9.2  
F. FOR ACCESSIBILITY CLEARANCES AND DIMENSIONS SEE SHEET A9.1  
G. DIMENSIONS ARE SHOWN TO FACE OF WALL, U.N.O.  
H. FOR SIGNAGE REQUIREMENTS, SEE SHEET A8.2  
I. FOR ACCESSIBLE CONTROL HEIGHTS SEE DETAIL 7 / A9.2

DEMOLITION NOTES

- D111 REMOVE (E) DOOR & HARDWARE, FRAME TO REMAIN.  
D112 REMOVE (E) NON-ACCESSIBLE THRESHOLD.  
D131 REMOVE (E) TOILET PARTITIONS AND DOORS AS INDICATED. BALANCE TO REMAIN.  
D135 REMOVE (E) GRAB BARS AND SAVE FOR REINSTALLATION.  
D136 REMOVE (E) PAPER TOWEL DISPENSER AND TRASH RECEPTACLE. SAVE PAPER TOWEL DISPENSER FOR REINSTALLATION.  
D138 SAWCUT & REMOVE CORNER OF (E) GRANITE COUNTERTOP TO PROVIDE 4" CLEAR SPACE BETWEEN COUNTERTOP AND TOILET PARTITIONS. ALSO CUT BACK COUNTERTOP END LEG.  
D142 REMOVE (E) CERAMIC TILE AND WATER RESISTANT GYPSUM BOARD BACKING TO EXTENT SHOWN ON INTERIOR ELEVATIONS.  
D144 REMOVE (E) STAINLESS STEEL MIRROR.  
D145 REMOVE (E) SANITARY NAPKIN DISPOSAL, AT EACH STALL, TYP.  
D147 REMOVE (E) GLASS MIRROR & REPAIR WALL SURFACE BEHIND.  
D181 REMOVE (E) DRINKING FOUNTAIN, SPD. REWORK (E) PIPING FOR (N) HI-LOW DRINKING FOUNTAIN.

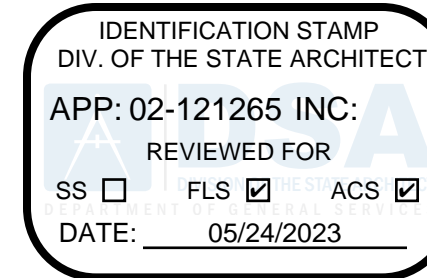
DRAWING NOTES

- 102 30" x 48" MINIMUM CLEAR FLOOR SPACE FOR WHEELCHAIR ACCESS.  
192 (N) ACCESSIBLE THRESHOLD.  
202 (N) CERAMIC TILE OVER WATER RESISTANT GYPSUM BOARD. INFILL WHERE WASTE RECEPTACLE IS REMOVED.  
203 (E) BLUE CERAMIC TILE ACCENT BAND.  
204 (E) GREEN CERAMIC TILE ACCENT BAND.  
205 (N) CERAMIC TILE OVER WATER RESISTANT GYPSUM BOARD WHERE TILE WAS REMOVED.  
207 (N) CERAMIC TILE OVER FURRED WALL. SEE FLOOR PLAN.  
209 REPAIR CEMENT PLASTER WALL FINISH AS NECESSARY FOR REWORK OF PIPING FOR INSTALLATION OF (N) DRINKING FOUNTAIN. MATCH SURROUNDING TEXTURE AND PAINT FINISH.  
220 GRIND CUT EDGE TO ROUND PROFILE TO MATCH (E). SALVAGE MATERIAL CUT FROM CORNER TO MAKE FULL ROUND EDGE. PROVIDE (N) COUNTERTOP FRAMING AND SKIRT TO MATCH (E).  
222 RESTROOM DOOR AND WALL SIGNAGE, TYP AT EACH RESTROOM DOOR.  
226 TOILET PARTITION - FLOOR MOUNTED OVERHEAD BRACED. PROVIDE BLOCKING AND MOUNT PER DETAILS ON SHEET A8.3  
228 36" WIDE TOILET PARTITION DOOR TYPICAL AT ACCESSIBLE STALLS. 34" WIDE TOILET PARTITION DOOR TYPICAL AT AMBULATORY STALLS.  
233 (E) GRAB BAR, 48" LONG x 1 1/2" DIA, REINSTALL AT SIDE WALL OF ACCESSIBLE W.C., SEE DETAIL 4/A9.3  
234 (E) GRAB BAR, 36" LONG x 1 1/2" DIA, REINSTALL AT REAR WALL OF ACCESSIBLE W.C., SEE DETAIL 4/A9.3  
237 SURFACE MOUNTED FEMININE NAPKIN DISPOSAL, MOUNT PER DETAIL 8/A9.2. PROVIDE ONE AT EACH STALL IN WOMEN'S AND GIRLS' RESTROOMS.  
241 GRAB BAR, 42" LONG x 1 1/2" DIA, AT EACH SIDE OF AMBULATORY STALL.  
242 REINSTALL (E) SURFACE MOUNTED PAPER TOWEL DISPENSER PER DETAIL 8/A9.2  
243 (N) STAINLESS STEEL MIRROR. MOUNT AT SAME LOCATION AS ORIGINAL.  
244 (N) GLASS MIRROR WITH STAINLESS STEEL FRAME.  
255 (N) SURFACE MOUNTED WASTE RECEPTACLE.  
266 HI-LOW ACCESSIBLE DRINKING FOUNTAIN. SEE PLUMBING DRAWINGS.

FLOOR PLAN - LEGEND

- NEW WALL  
 (E) 2X6 ONE HOUR STUD WALL

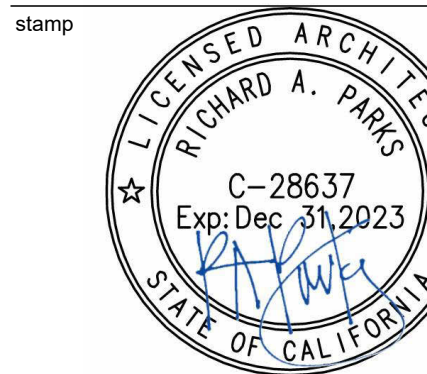
dsa



architect



stamp



consultant

project number CA5602  
project director  
project designer  
project architect

revisions  
no. date revision

project status

DSA BACKCHECK - V2  
4-25-2023

client / project

OAK HILL ES  
HARDSHIP  
MODERNIZATION

CJUSD  
3909 NORTH LOOP BLVD  
ANTELOPE, CA 95843

sheet name

BUILDING A  
RESTROOM PLANS &  
INT ELEV

sheet number

A4.1

plot date 5/15/2023 4:53:45 PM







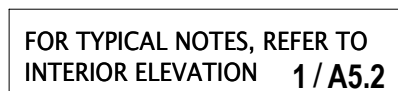
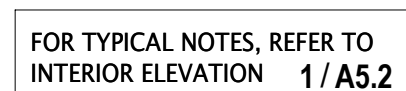


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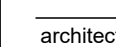




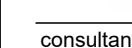




239 WALL MOUNTED PAPER TOWEL DISPENSER. REMOVE & REINSTALL PER DETAIL 8/A9.2  
240 WALL MOUNTED SOAP DISPENSER. REMOVE & REINSTALL PER DETAIL 8/A9.2  
251 PLASTIC LAMINATE SINK BASE CABINET. INSERT BETWEEN (E) CASEWORK.  
253 PLASTIC LAMINATE COUNTER TOP W/ BACKSLASH.



3009 DOUGLAS BLVD SUITE 290  
ROSEVILLE CA 95661 T 916 772 1800



project designer

project architect

no	date	revision
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[illegible]

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project status

client / project

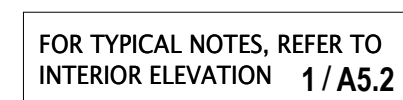
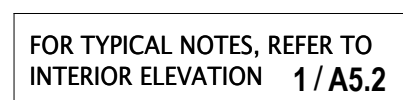
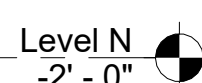
**CJUSD**  
**3909 NORTH LOOP BLVD**  
**ANTELOPE, CA 95843**

sheet name

sheet number

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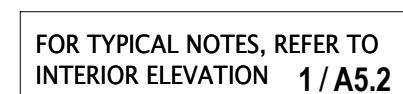
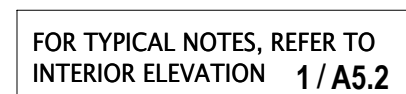
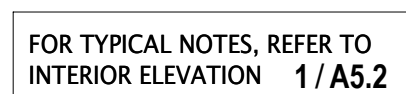
Autodesk Docs://1815054 CA5602 Oak Hill ES Mod/Oak Hill ES Mod R22.rvt



**BUILDING G - CLASSROOM 9**  
1/4" = 1'-0"

**8 BUILDING G - CLASSROOM 10**  
1/4" = 1'-0"

**7 BUILDING G - CLASSROOM 11**  
1/4" = 1'-0"



**BUILDING H - CLASSROOM 8**  
1/4" = 1'-0"

**11 BUILDING H - CLASSROOM 6**  
1/4" = 1'-0"

**10 BUILDING H - CLASSROOM 7**  
1/4" = 1'-0"



1. FOR ADDITIONAL INFORMATION SEE PLUMBING, ELECTRICAL AND FIRE ALARM DRAWINGS.
2. REPLACE CEILING PANELS IF DAMAGED OR AS REQUIRED FOR FIRE ALARM WORK. PROVIDE MINIMUM 30% CEILING PANEL REPLACEMENT.
3. PROTECT SPRINKLER HEADS FROM DAMAGE OR OVERSPRAY.

212 (E) 2x4 LAY-IN ACOUSTIC PANEL CEILING IN SUSPENDED METAL GRID TO REMAIN.  
213 (E) GYPSUM BOARD CEILING/SOFFIT TO REMAIN. PAINT AS PART OF ALTERNATE #1.  
219 EXTEND (E) CEILING TO MATCH (E) WHERE EQUIPMENT CLOSET AND SOFFIT WERE REMOVED.

IDENTIFICATION STAMP  
DIV. OF THE STATE ARCHITECT  
APP: 02-121265 INC:  
REVIEWED FOR  
SS ☐ FLS ☒ ACS ☒  
DATE: 05/24/2023

**AC MARTIN**  
3009 DOUGLAS BLVD SUITE 290  
ROSEVILLE CA 95661 T 916 772

project number CA5602  
project director  
project designer  
project architect

no.	date	revision
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object status

USA BACKCHECK - V.  
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## PAK 111-1 ES

## LABOUR

## WIRELESS

## MODERNIERA

909 NORTH LOOP BL

ANTELOPE, CA 95843

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REFLECTED CEILING

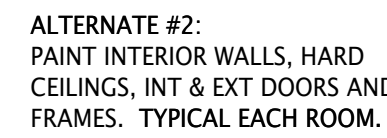
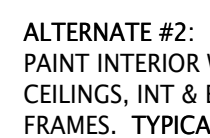
## PLANS BUILDINGS

Sheet number

## AC 1

## References

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$$1/8^{\circ} = 1^{\circ} - 0^{\circ}$$


**2**  $1/8" = 1'-0"$



1/8" = 1'-0"

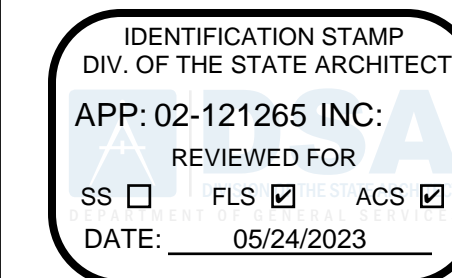




1. FOR ADDITIONAL INFORMATION SEE PLUMBING, ELECTRICAL AND FIRE ALARM DRAWINGS.
2. REPLACE CEILING PANELS IF DAMAGED OR AS REQUIRED FOR FIRE ALARM WORK. PROVIDE MINIMUM 30% CEILING PANEL REPLACEMENT.
3. PROTECT SPRINKLER HEADS FROM DAMAGE OR OVERSPRAY.

212 (E) 2x4 LAY-IN ACOUSTIC PANEL CEILING IN SUSPENDED METAL GRID TO REMAIN.  
213 (E) GYPSUM BOARD CEILING/SOFFIT TO REMAIN. PAINT AS PART OF ALTERNATE #

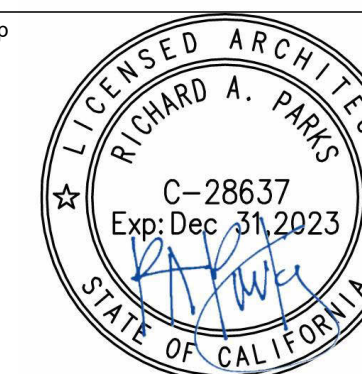
dsd



architect

**AC MARTIN**  
3009 DOUGLAS BLVD SUITE 201  
ROSEVILLE CA 95661 T 916 771-1100

stamp



consultant

project number CA5602  
project director  
project designer  
project architect

revisions		
no.	date	revision

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project status

**DSA BACKCHECK - V2**  
**4-25-2023**

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client / project

## OAK HILL ES HARDSHIP MODERNIZATION

CJUSD  
3909 NORTH LOOP BLVD  
ANTELOPE, CA 95843

sheet name

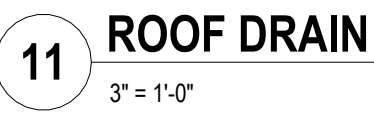
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PLANS BUILDINGS  
D-H**

sheet number

## A6.2

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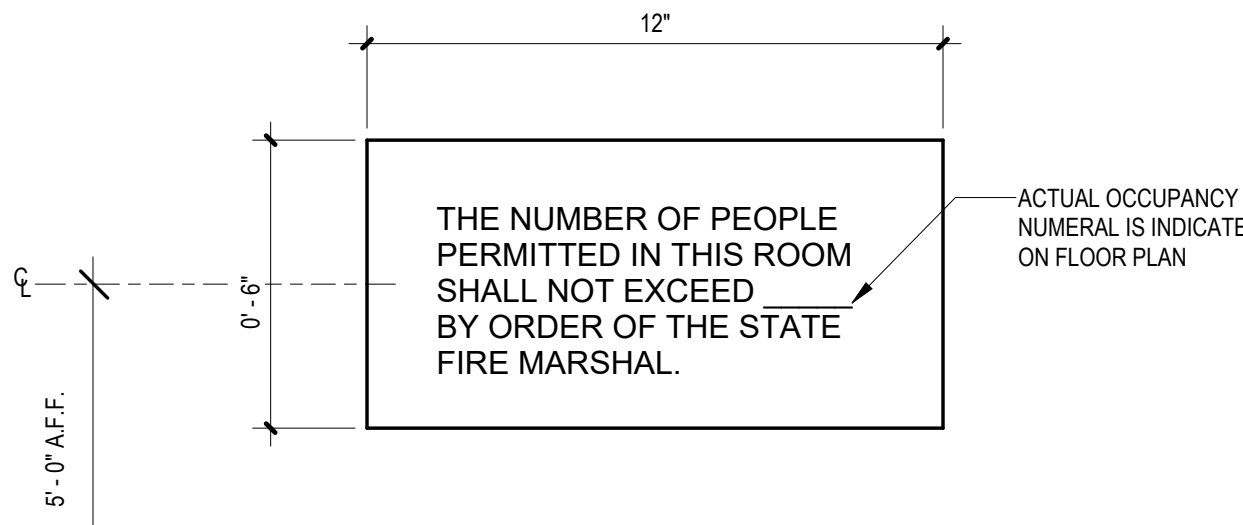
Autodesk Docs://1815054\_CA5602\_Oak Hill ES Mod/Oak Hill ES\_Mod\_R22.rvt







ROOM SHALL BE POSTED WITH A DURABLE SIGN HAVING A CONTRASTING COLOR FROM THE BACKGROUND TO WHICH IT IS ATTACHED NEAR THE MAIN EXIT FROM THE ROOM. THE SIGN SHALL BE WORDED AS FOLLOWS:



## 2 OCCUPANT LOAD SIGNAGE DETAIL

11B-703 Signs

**11B-703.1 General.** Signs shall comply with Section 11B-703. Where both visual and tactile characters are required, either one sign with both visual and tactile characters, or two separate signs, one with visual, and one with tactile characters, shall be provided.

**11B-703.1.1 Plan review and inspection.** Signs as specified in Section 11B-703, or in other sections of this code, when included in the construction of new buildings or facilities, or when included, altered or replaced due to additions, alterations or renovations to existing buildings or facilities, and when a permit is required, shall comply with Sections 11B-703.1.1.1 and 11B-703.1.1.2.

**11B-703.1.1.1 Plan review.** Plans, specifications or other information indicating compliance with these regulations shall be submitted to the enforcing agency for review and approval.

**11B-703.1.1.2 Inspection.** Signs and identification devices shall be field inspected after installation and approved by the enforcing agency prior to the issuance of a final certificate of occupancy per Chapter 1, Division II, Section 111, or final approval where no certificate of occupancy is issued. The inspection shall include, but not be limited to, verification that Braille dots and cells are properly spaced and the size, proportion and type of raised characters are in compliance with these regulations.

**11B-703.1.2 Raised characters.** Raised characters shall comply with Section 11B-703.2 and shall be duplicated in Braille complying with Section 11B-703.3. Raised characters shall be installed in accordance with Section 11B-703.4.

**11B-703.2.1 Depth.** Raised characters shall be 1/16 inch (0.5 mm) minimum above their background.

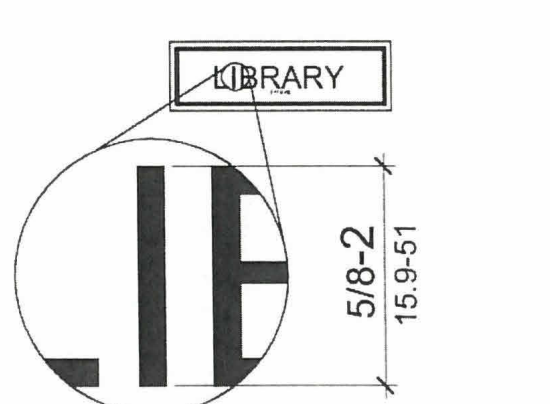
**11B-703.2.2 Case.** Characters shall be uppercase.

**11B-703.2.3 Style.** Characters shall be sans serif. Characters shall not be italic, oblique, script, highly decorative, or of other unusual forms.

**11B-703.2.4 Character proportions.** Characters shall be selected from fonts where the width of the uppercase letter "O" is 60 percent minimum and 110 percent maximum of the height of the uppercase letter "T".

**11B-703.2.5 Character height.** Character height measured vertically from the baseline of the character shall be 1/2 inch (12.9 mm) minimum and 2 inches (51 mm) maximum based on the height of the uppercase letter "T".

Exception: Reserved.

FIGURE 11B-703.2.5  
HEIGHT OF RAISED CHARACTERS

**11B-703.2.6 Stroke thickness.** Stroke thickness of the uppercase letter "T" shall be 15 percent maximum of the height of the character.

**11B-703.2.7 Character spacing.** Character spacing shall be measured between the two closest points of adjacent raised characters within a mounting area, including word spaces. Where characters have rectangular cross sections, spacing between individual raised characters shall be 1/4 inch (3.2 mm) minimum and 4 times the raised character stroke width maximum. Where characters have other cross sections, spacing between individual raised characters shall be 1/4 inch (1.6 mm) minimum and 4 times the raised character stroke width maximum at the base of the cross sections, and 1/4 inch (3.2 mm) minimum and 4 times the raised character stroke width maximum at the top of the cross sections. Characters shall be separated from raised borders and decorative elements 1/4 inch (9.5 mm) minimum.

**11B-703.2.8 Line spacing.** Spacing between the baselines of separate lines of raised characters within a message shall be 135 percent minimum and 170 percent maximum of the raised character height.

Exception: Reserved.

**11B-703.2.9 Format.** Text shall be in a horizontal format.

**11B-703.3 Braille.** Braille shall be contracted (Grade 2) and shall comply with Sections 11B-703.3 and 11B-703.4.

**11B-703.3.1 Dimensions and capitalization.** Braille dots shall have a domed or rounded shape and shall comply with Table 11B-703.3.1. The indication of an uppercase letter or letters shall only be used before the first word of

sentences, proper nouns and names, individual letters of the alphabet, initials, and acronyms.

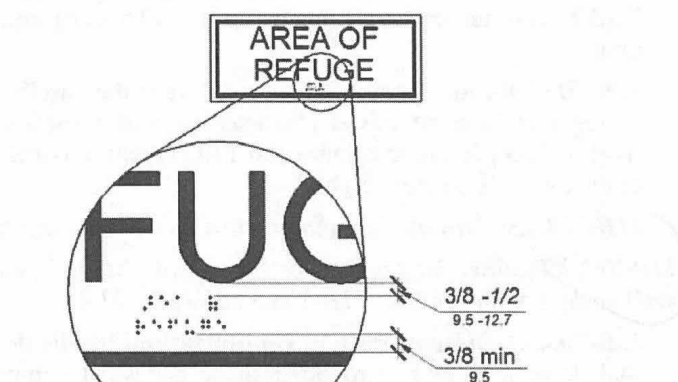
**11B-703.3.2 Position.** Braille shall be positioned below the corresponding text in a horizontal format, flush left or centered. If text is multi-lined, Braille shall be placed below the entire text. Braille shall be separated 3/8 inch (9.5 mm) minimum and 1/2 inch (12.7 mm) maximum from any other tactile characters and 3/8 inch (9.5 mm) minimum from raised borders and decorative elements.

Exception: Braille provided on elevator car controls shall be separated 1/16 inch (4.8 mm) minimum and

shall be located either directly below the corresponding raised characters or symbols.

**11B-703.4 Installation height and location.** Signs with tactile characters shall comply with Section 11B-703.4.

**11B-703.4.1 Height above finish floor or ground.** Tactile characters on signs shall be located 48 inches (1219 mm) minimum above the finish floor or ground surface, measured from the baseline of the lowest Braille cells and 60 inches (1524 mm) maximum above the finish floor or ground surface, measured from the baseline of the highest

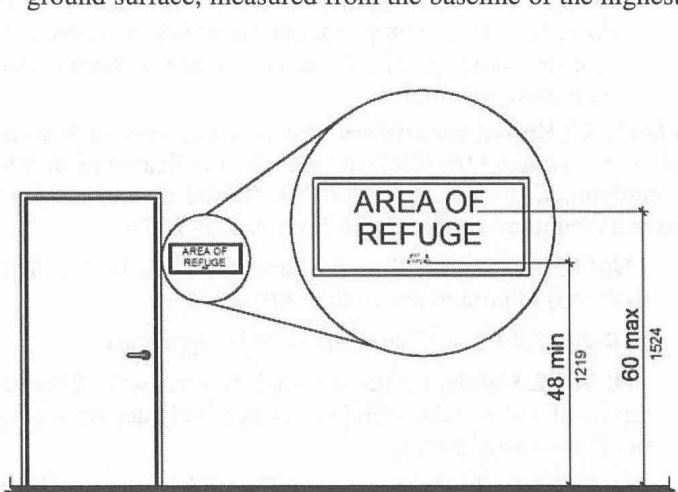
FIGURE 11B-703.3.2  
POSITION OF BRAILLE

shall be located either directly below the corresponding raised characters or symbols.

**11B-703.4.2 Case.** Characters shall be uppercase.

**11B-703.4.3 Style.** Characters shall be sans serif. Characters shall not be italic, oblique, script, highly decorative, or of other unusual forms.

**11B-703.4.4 Character proportions.** Characters shall be selected from fonts where the width of the uppercase letter "O" is 60 percent minimum and 110 percent maximum of the height of the uppercase letter "T".

FIGURE 11B-703.4.1  
HEIGHT OF TACTILE CHARACTERS  
ABOVE FINISH FLOOR OR GROUND

line of raised characters.

Exception: Tactile characters for elevator car controls shall not be required to comply with Section 11B-703.4.1.

**11B-703.4.2 Location.** Where a tactile sign is provided at a door, the sign shall be located alongside the door at the latch side. Where a tactile sign is provided at double doors with one active leaf, the sign shall be located on the inactive leaf. Where a tactile sign is provided at double doors with two active leaves, the sign shall be located to the right of the right hand door. Where there is no wall space at the latch side of a single door or at the right side of double doors, signs shall be located on the nearest adjacent wall. Signs containing tactile characters shall be located so that a clear floor space of 18 inches (457 mm) minimum by 18 inches (457 mm) minimum, centered on the tactile characters, is provided beyond the arc of any door swing between the closed position and 45 degree open position. Where permanent identification signage is provided for rooms and spaces they shall be located on the approach side of the door as one enters the room or space. Signs that identify exits shall be located on the approach side of the door as one exits the room or space.

Exception: Reserved.

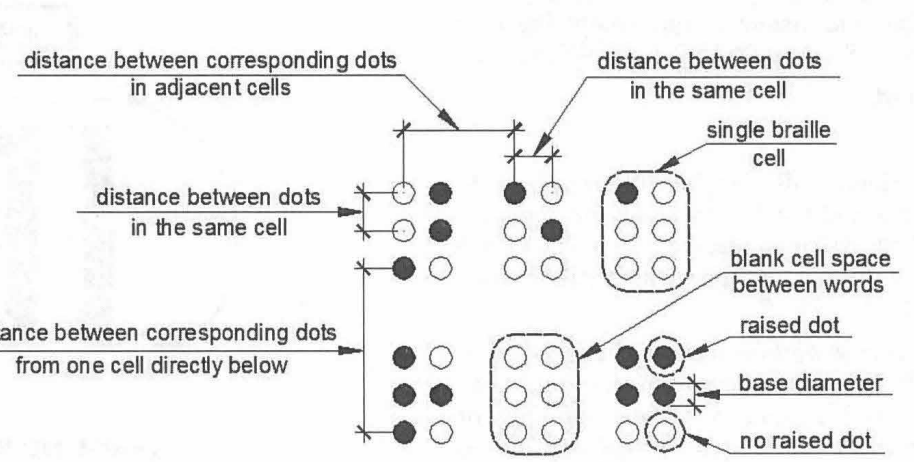
**11B-703.5 Braille.** Braille shall be contracted (Grade 2) and shall comply with Sections 11B-703.3 and 11B-703.4.

**11B-703.5.1 Dimensions and capitalization.** Braille dots shall have a domed or rounded shape and shall comply with Table 11B-703.3.1. The indication of an uppercase letter or letters shall only be used before the first word of

TABLE 11B-703.3.1  
BRAILLE DIMENSIONS

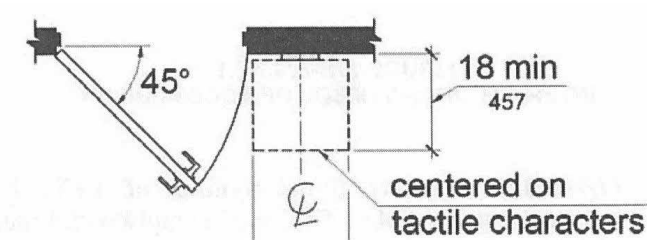
MEASUREMENT RANGE	MINIMUM IN INCHES MAXIMUM IN INCHES
Dot base diameter	0.059 (1.5 mm) to 0.063 (1.6 mm)
Distance between two dots in the same cell <sup>1</sup>	0.100 (2.5 mm)
Distance between corresponding dots in adjacent cells <sup>1</sup>	0.300 (7.6 mm)
Dot height	0.025 (0.6 mm) to 0.037 (0.9 mm)
Distance between corresponding dots from one cell directly below <sup>1</sup>	0.395 (10 mm) to 0.400 (10.2 mm)

1. Measured center to center.

FIGURE 11B-703.3.1  
BRAILLE MEASUREMENTTABLE 11B-703.5  
VISUAL CHARACTER HEIGHT

HEIGHT TO FINISH FLOOR OR GROUND FROM BASELINE OF CHARACTER	HORIZONTAL VIEWING DISTANCE	MINIMUM CHARACTER HEIGHT
40 inches (1016 mm) to less than or equal to 70 inches (1778 mm)	less than 72 inches (1829 mm)	1/4 inch (15.9 mm)
Greater than 70 inches (1778 mm) to less than or equal to 120 inches (3048 mm)	72 inches (1829 mm) and greater	1/4 inch (15.9 mm), plus 1/4 inch (3.2 mm) per foot (305 mm) of viewing distance above 72 inches (1829 mm)
greater than 120 inches (3048 mm)	180 inches (4572 mm) and greater	2 inches (51 mm), plus 1/4 inch (3.2 mm) per foot (305 mm) of viewing distance above 180 inches (4572 mm)
	less than 21 feet (6401 mm)	3 inches (76 mm)
	21 feet (6401 mm) and greater	3 inches (76 mm), plus 1/4 inch (3.2 mm) per foot (305 mm) of viewing distance above 21 feet (6401 mm)

## 20 ACC - SIGNAGE GENERAL NOTES CBC 2022 N.T.S.

FIGURE 11B-703.4.2  
LOCATION OF TACTILE SIGNS AT DOORS

**11B-703.5 Visual characters.** Visual characters shall comply with Section 11B-703.5.

Exception: Where visual characters comply with Section 11B-703.2 and are accompanied by Braille complying with Section 11B-703.3, they shall not be required to comply with Sections 11B-703.5.2 through 11B-703.5.6, 11B-703.5.8 and 11B-703.5.9.

**11B-703.5.1 Finish and contrast.** Characters and their background shall have a non-plate finish. Characters shall contrast with their background with either light characters on a dark background or dark characters on a light background.

Exception: Where provided, floor plans providing emergency procedures information in accordance with Title 19 shall not be required to comply with Section 11B-703.5.5.

**11B-703.5.2 Case.** Characters shall be uppercase or lowercase or a combination of both.

**11B-703.5.3 Style.** Characters shall be conventional in form. Characters shall not be italic, oblique, script, highly decorative, or of other unusual forms.

**11B-703.5.4 Character proportions.** Characters shall be selected from fonts where the width of the uppercase letter "O" is 60 percent minimum and 110 percent maximum of the height of the uppercase letter "T".

**11B-703.5.5 Character height.** Minimum character height shall comply with Table 11B-703.5.5. Viewing distance shall be measured as the horizontal distance between the character and an obstruction preventing further approach towards the sign. Character height shall be based on the uppercase letter "T".

Exception: Where provided, floor plans providing emergency procedures information in accordance with Title 19 shall not be required to comply with Section 11B-703.5.5.

**11B-703.5.6 Height from finish floor or ground.** Visual characters shall be 40 inches (1016 mm) minimum above the finish floor or ground.

Exception: Reserved.

1. Visual characters indicating elevator car controls shall not be required to comply with Section 11B-703.5.6.

2. Floor-level exit signs complying with Chapter 10, Section 1011.7 shall not be required to comply with Section 11B-703.5.6.

3. Where provided, floor plans providing emergency procedures information in accordance with Title 19 shall not be required to comply with Section 11B-703.5.6.

4. Visual characters indicating elevator car controls shall not be required to comply with Section 11B-703.5.6.

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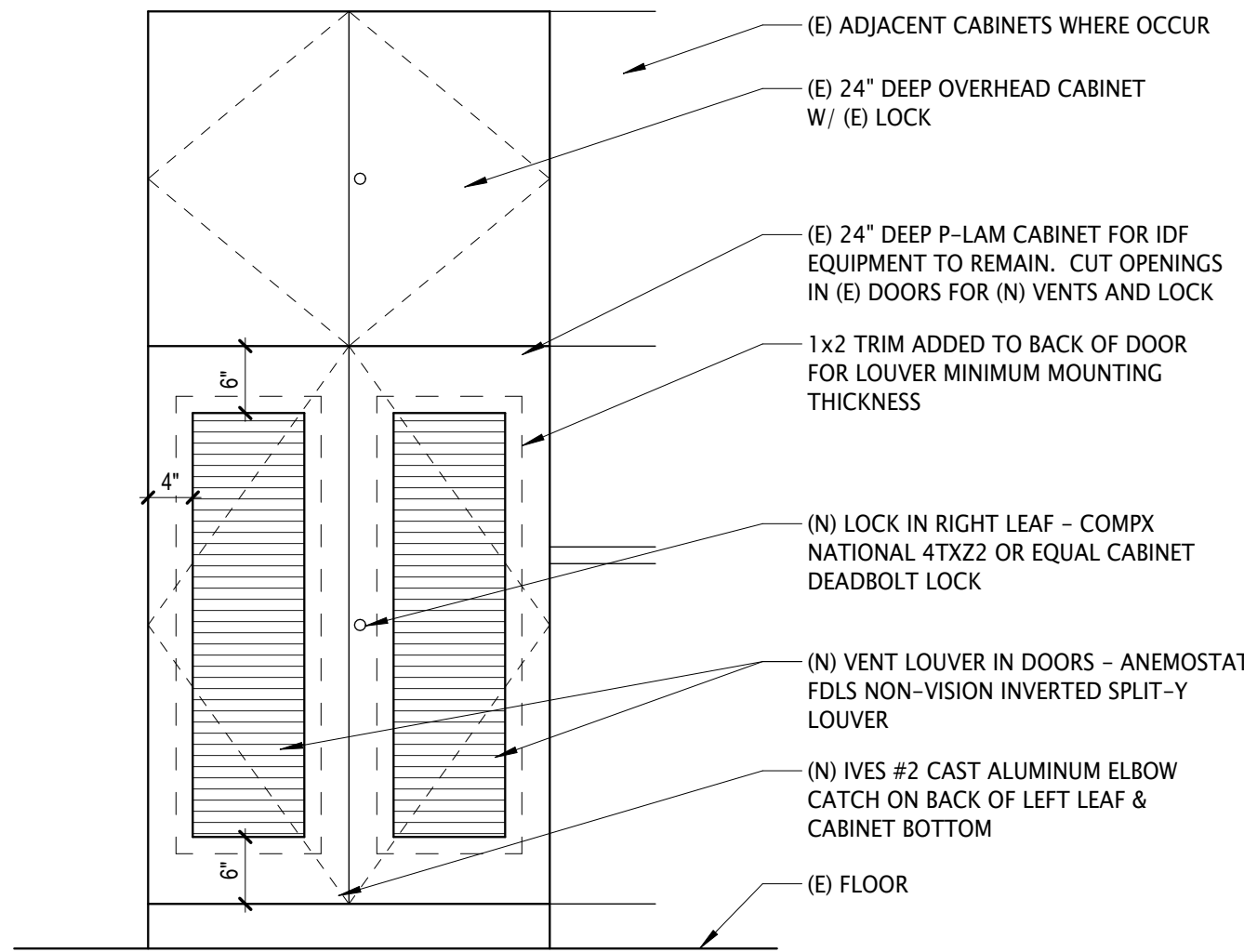
105. Visual characters indicating elevator car controls shall not be required to comply with Section 11B-703.5.6.

106. Visual characters indicating elevator car controls shall not be required to comply with Section 11B-703.5.6.

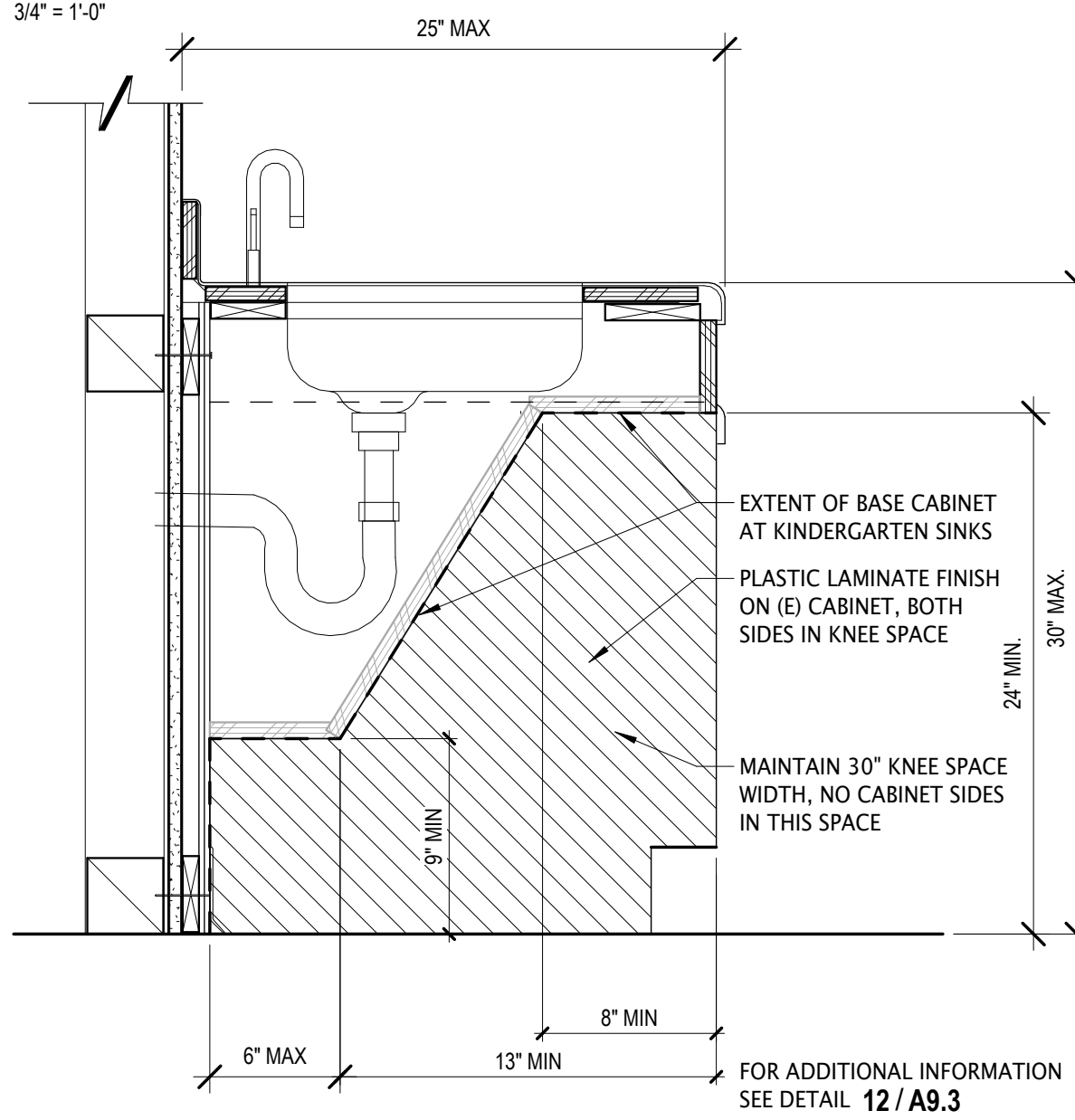
107. Visual characters indicating elevator car controls shall not be required to comply with Section 11B-703.5.6.

108. Visual characters indicating elevator car controls shall not be required to comply with Section 11B-703.5.6.



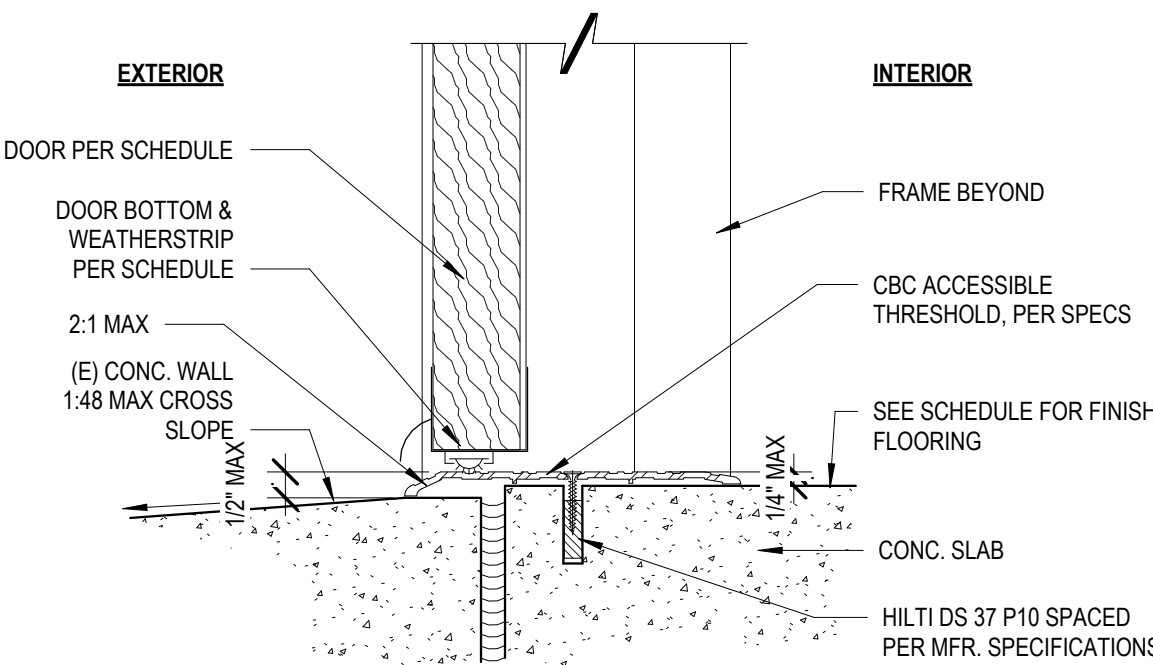


13 CAB - WORKROOM IDF CABINET

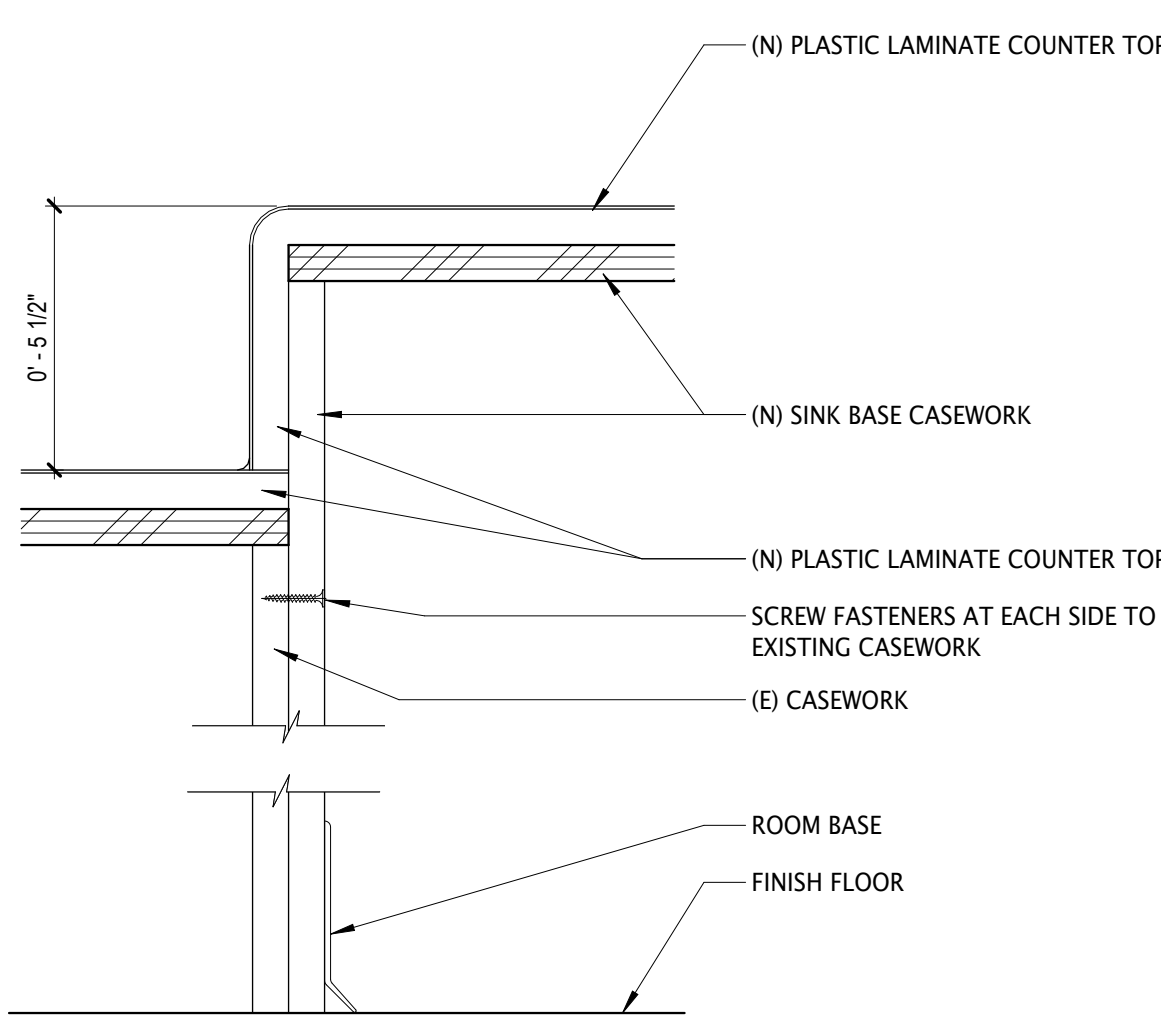


14 CAB - BUILDING B CABINET PROFILE (FOR CHILDREN 6-12 YRS)

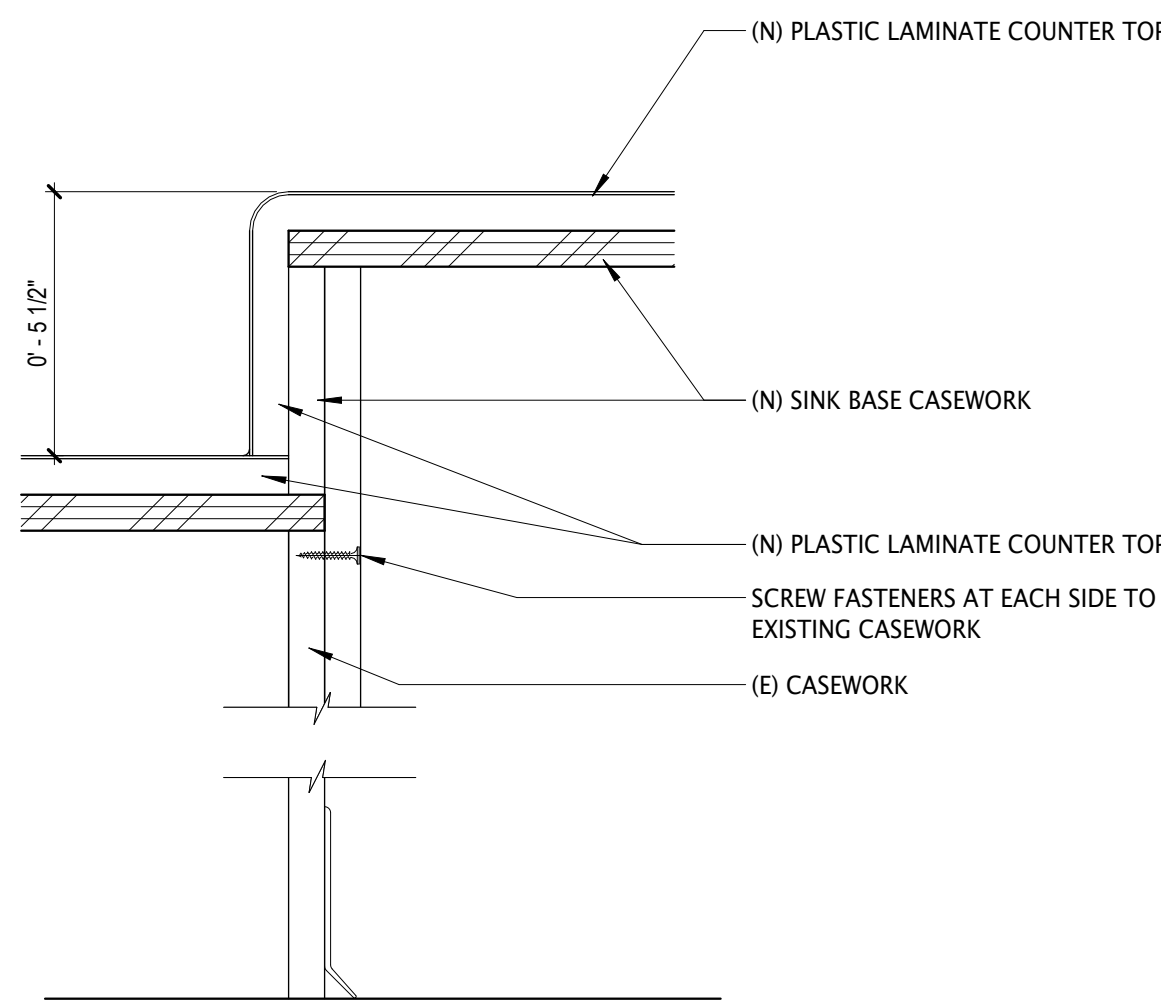
NOTE:  
SET THRESHOLD FIRMLY IN SEALANT,  
BOTH SIDES. SEE SPECIFICATIONS.



15 DOOR - EXTERIOR THRESHOLD

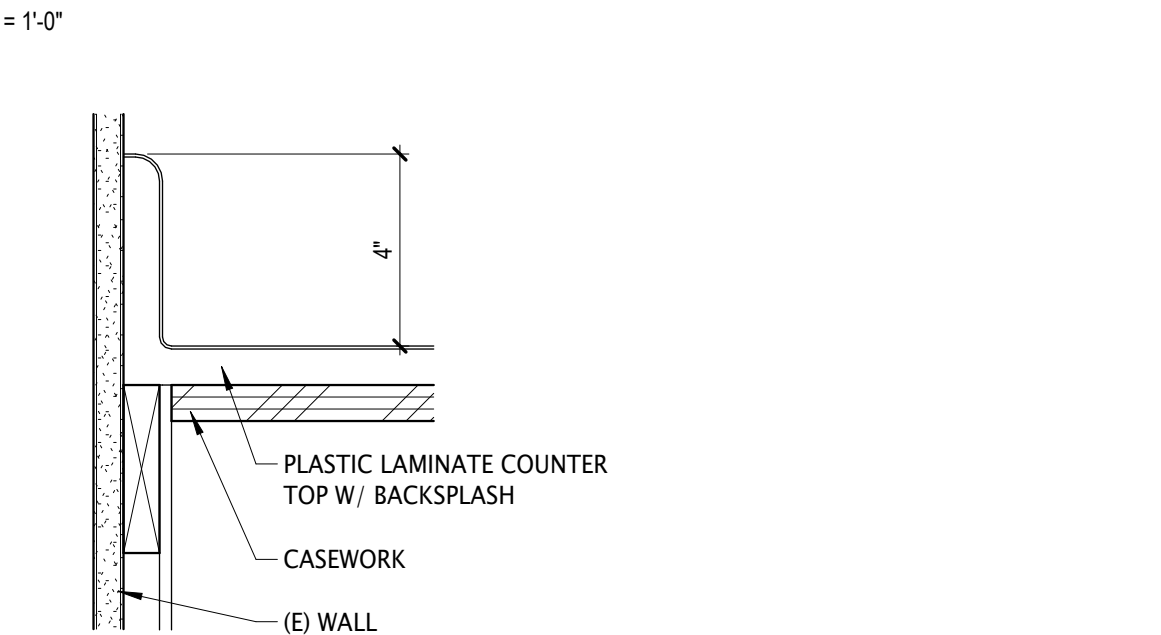


9 CAB - TYP. CLASSROOM SINK CASEWORK

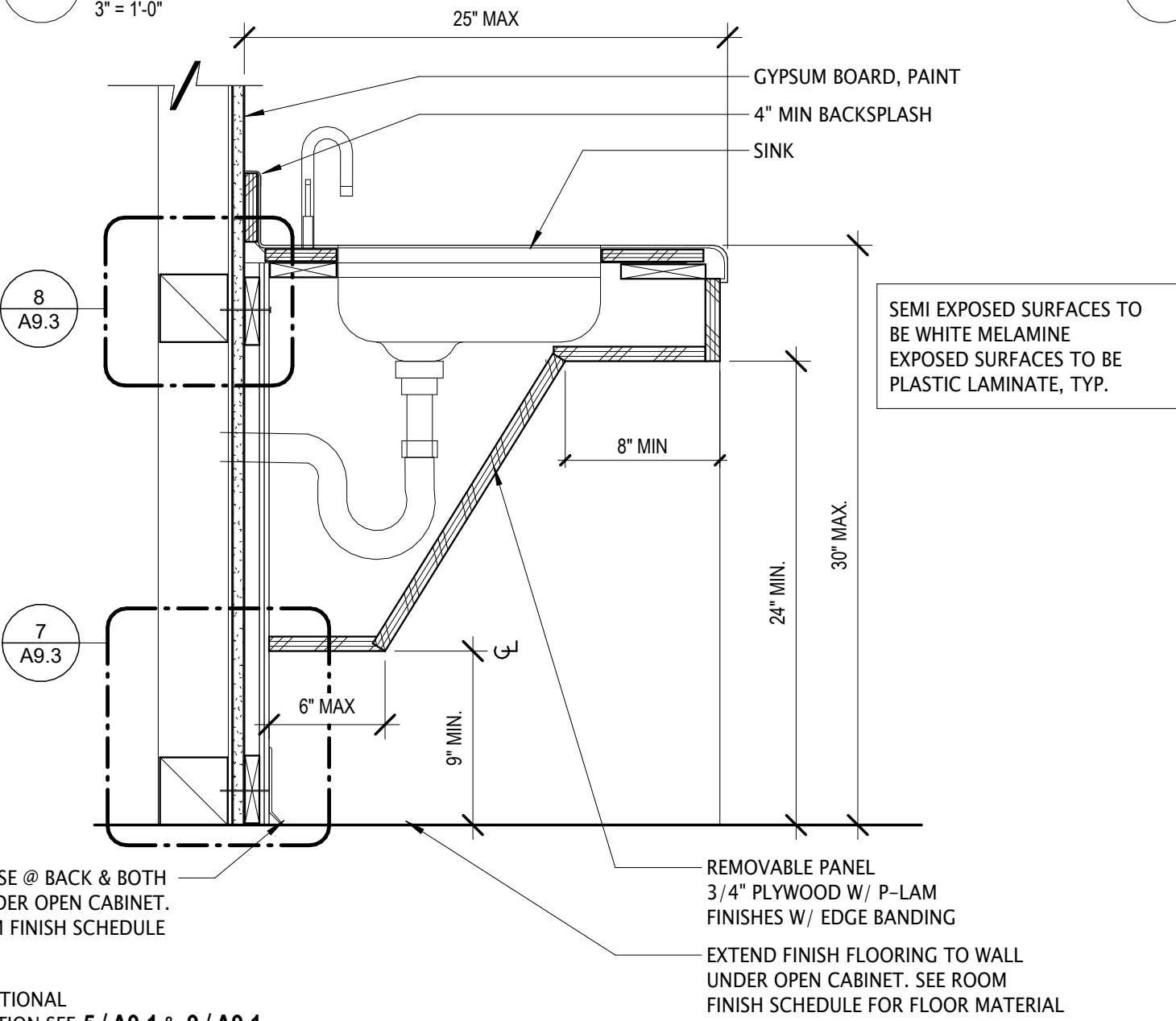


10 CAB - BUILDING B CLASSROOM SINK CASEWORK

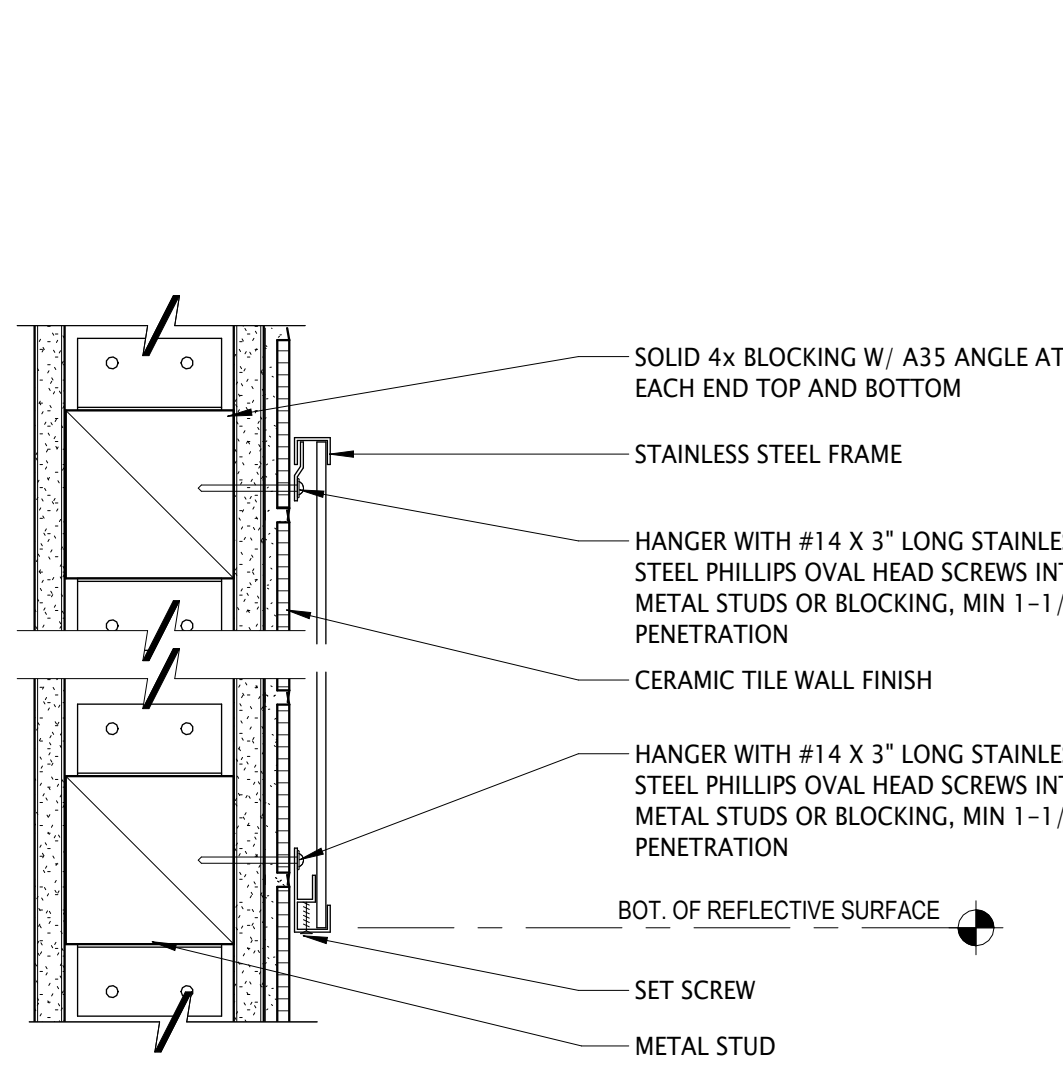
11A CAB - CASEWORK BACKSPLASH AT WINDOW



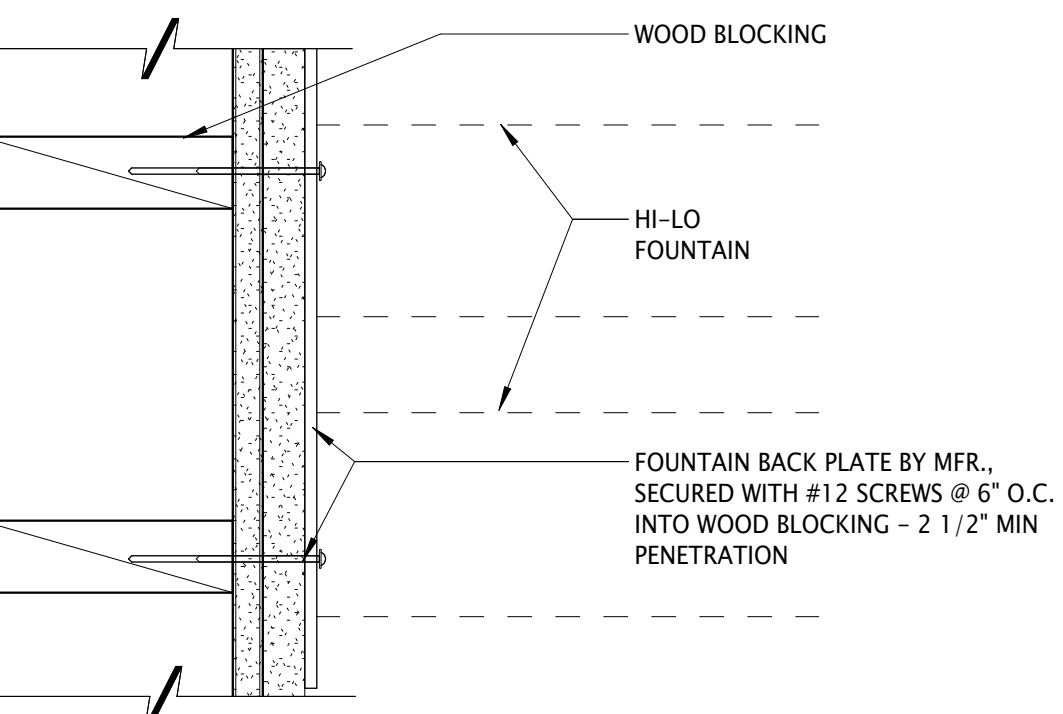
11 CAB - CASEWORK BACKSPLASH, TYPICAL



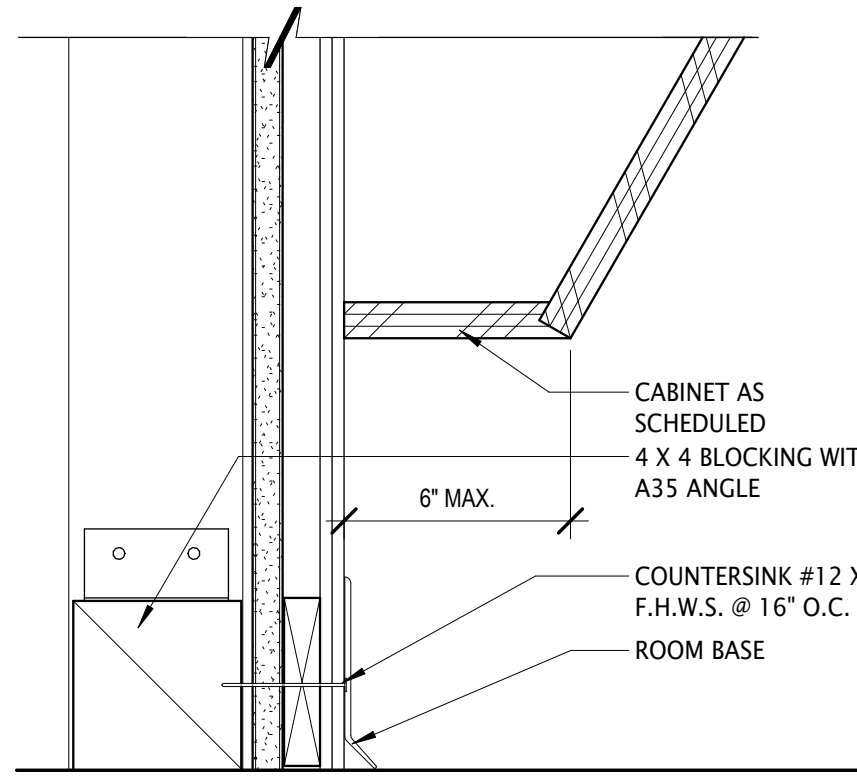
12 CAB - ACCESSIBLE SINK (FOR CHILDREN 6-12 YRS.)



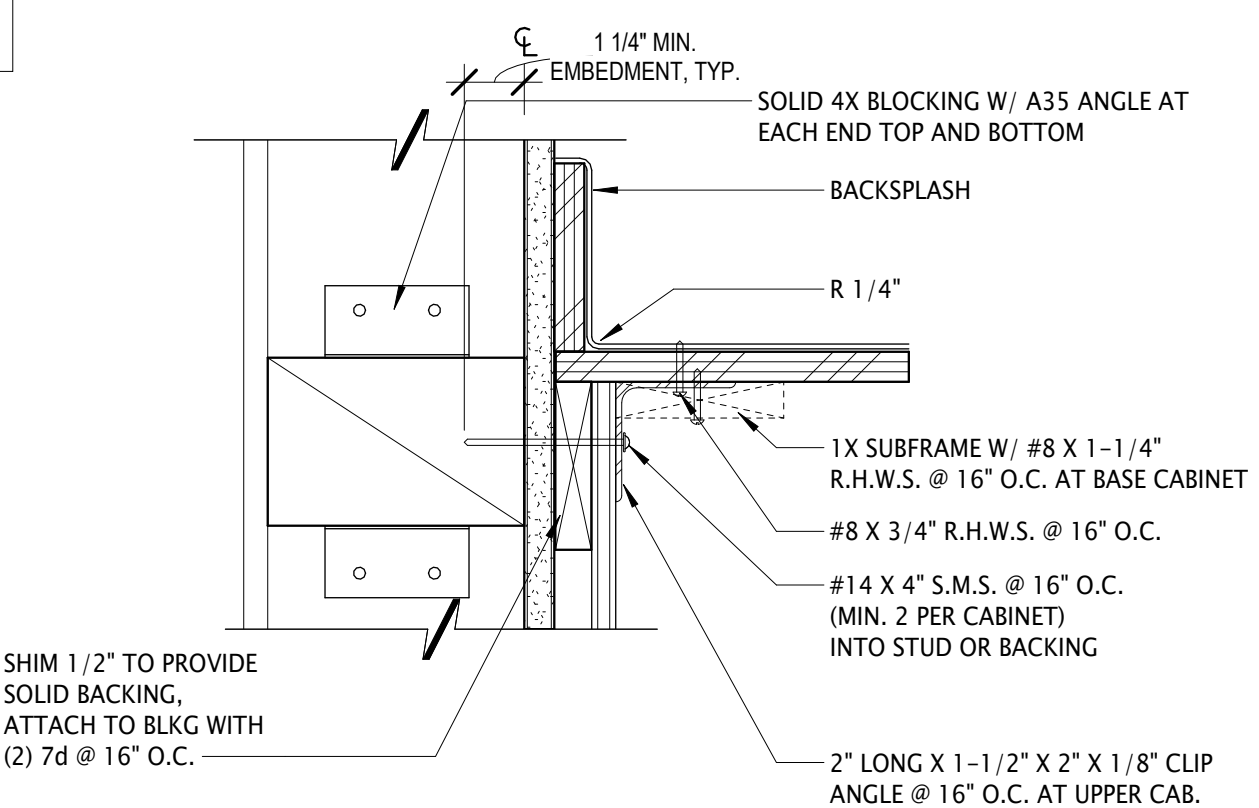
5 MIRROR ATTACHMENT



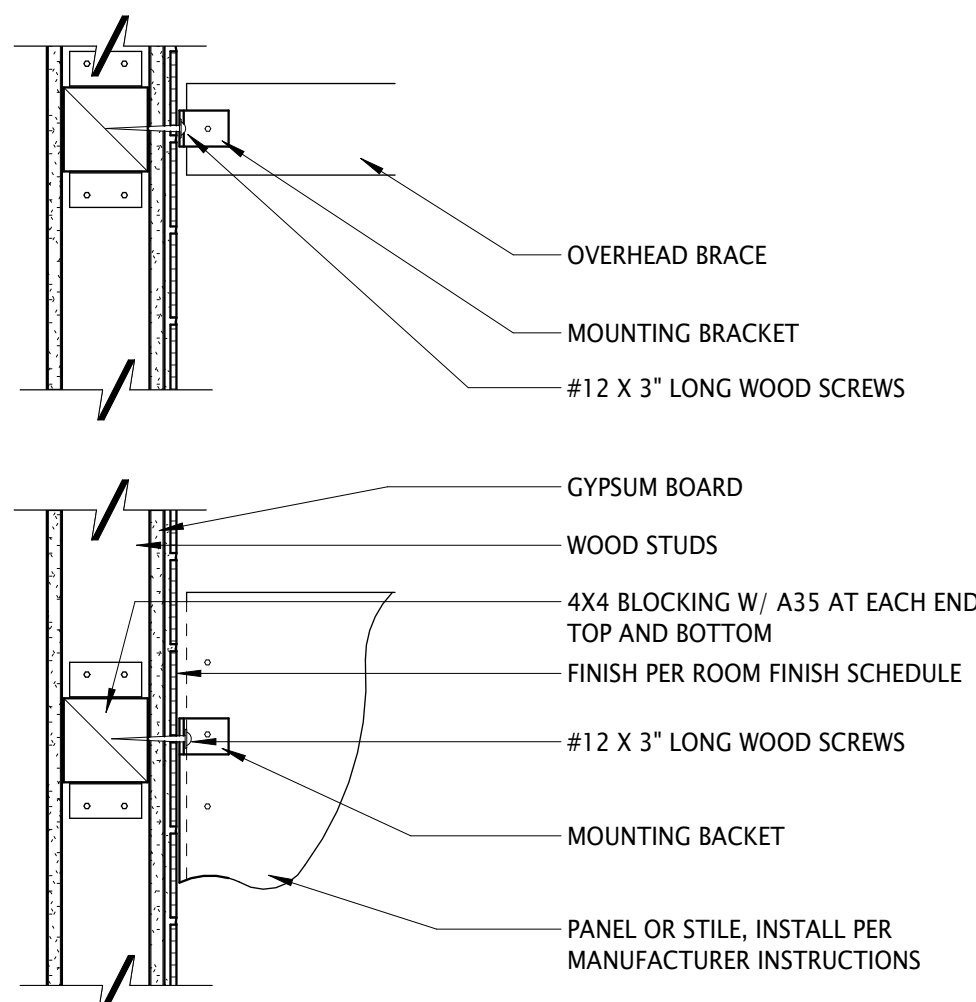
6 DRINKING FOUNTAIN MOUNTING @ WD BLKG



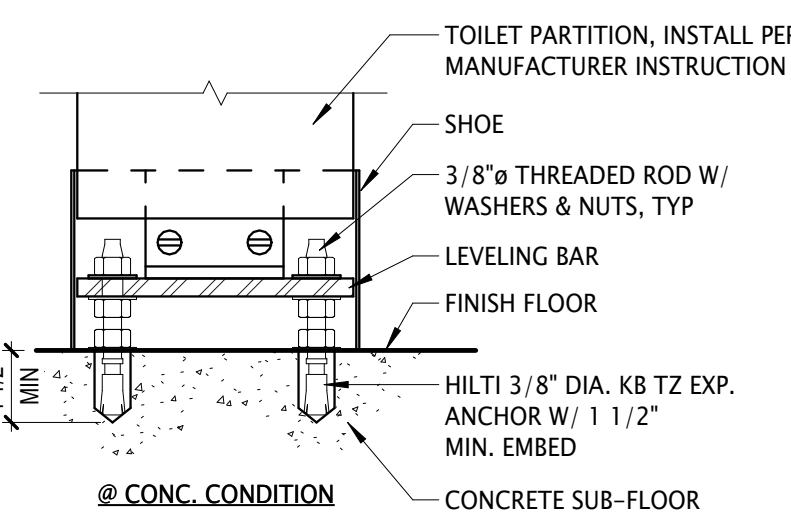
7 CAB - ACC BASE CABINET ATTACHMENT



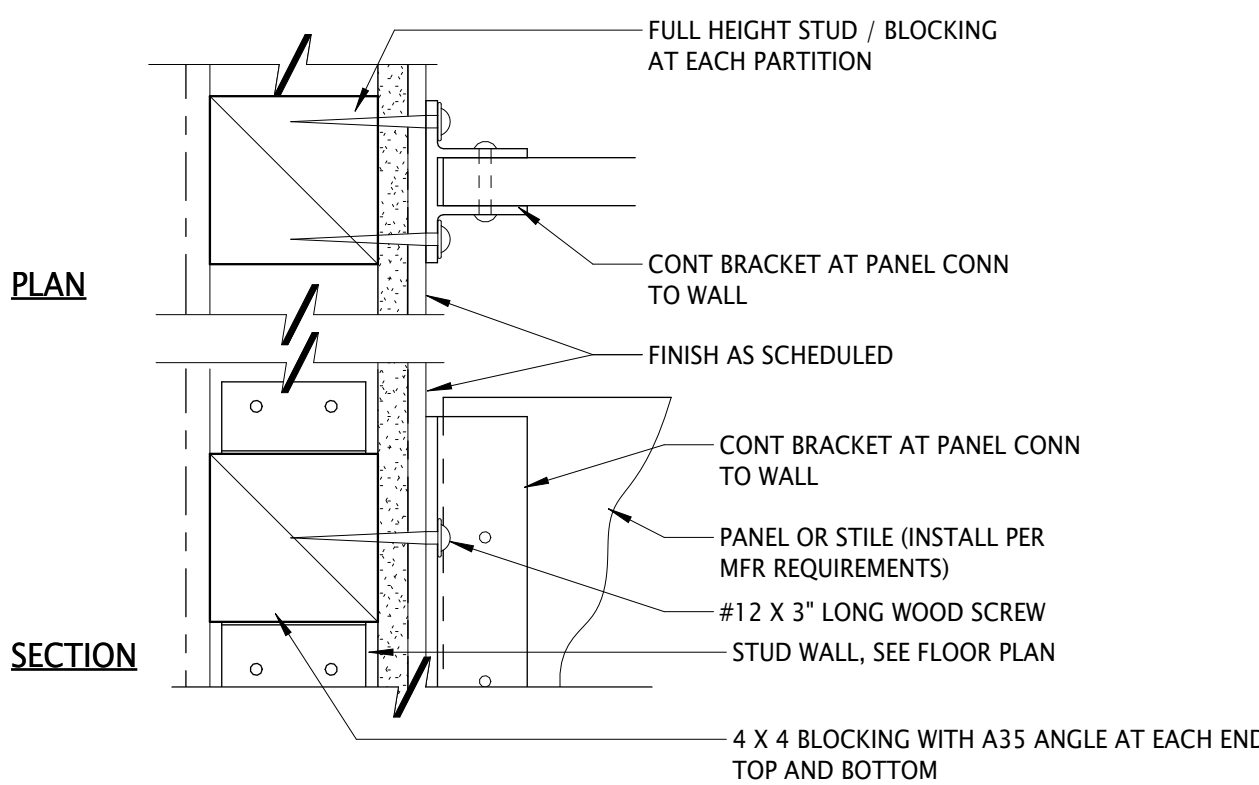
8 CAB - WALL CABINET ATTACHMENT



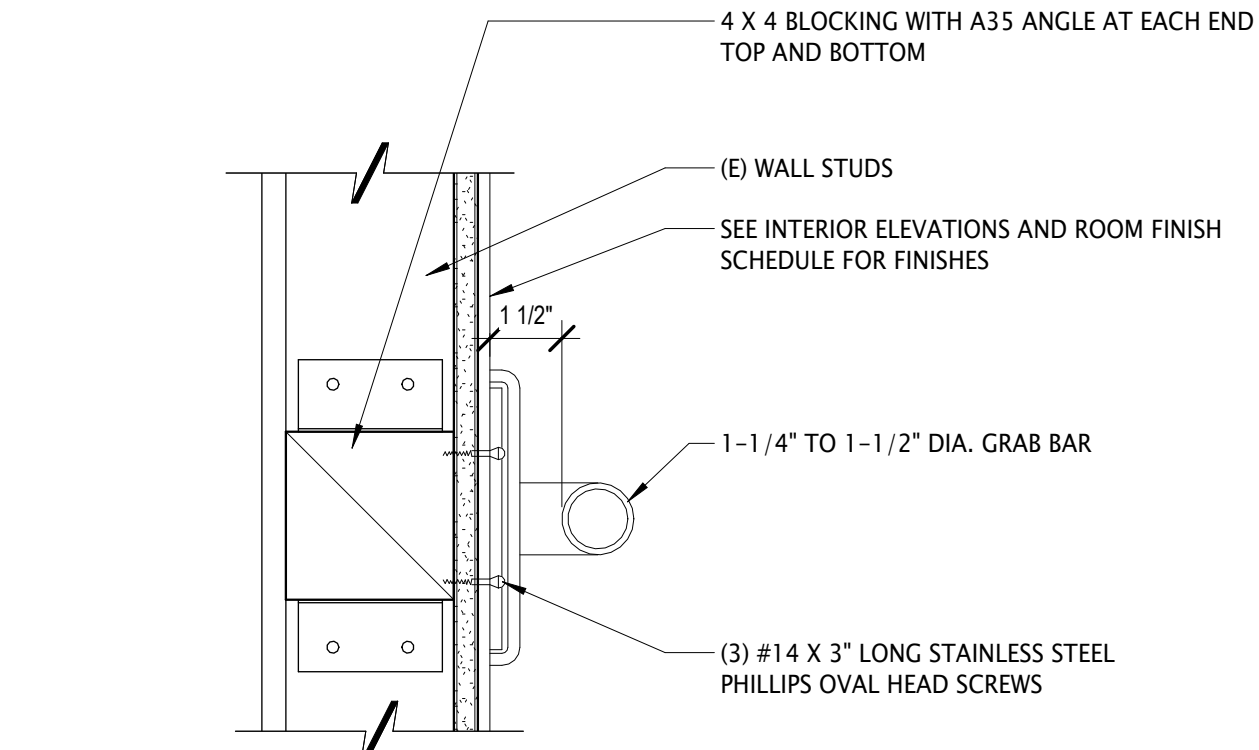
1 TOILET PARTITION WALL ANCHORAGE



2 TOILET PARTITION CONC FLOOR ANCHORAGE

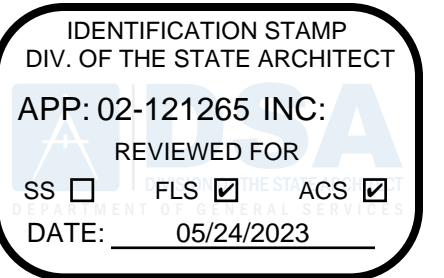


3 URINAL PARTITION WALL ANCHORAGE



4 GRAB BAR MOUNTING

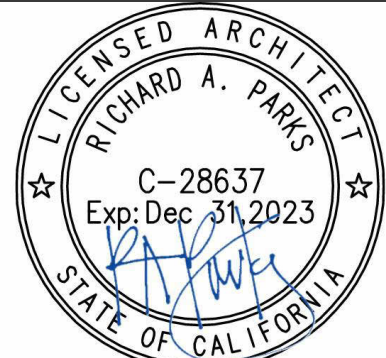
dsa



architect

ACMARTIN  
3909 DOUGLAS BLVD. SUITE 290  
ROSEVILLE, CA 95661 T 916 772 1800

stamp



consultant

project number CA5602  
project director  
project designer  
project architect

revisions

no. date revision

project status

DSA BACKCHECK - V2  
4-25-2023

client / project

OAK HILL ES  
HARDSHIP  
MODERNIZATION

CJUSD  
3909 NORTH LOOP BLVD  
ANTELOPE, CA 95843

sheet name

INTERIOR DETAILS

sheet number

A9.3

plot date 5/15/2023 4:54:02 PM



Autodesk Docs\\1915554\_C45602\_Oak Hill ES Mod\\Oak Hill ES\_Mod\_R22.rvt

ROOM FINISH SCHEDULE												
ROOM		FLOOR	BASE	WALLS				DOORS/TRIM	CEILING		NOTES	
NUMBER	NAME			NORTH	EAST	SOUTH	WEST		MATERIAL	FINISH		
A137	Room											
BUILDING A												
A100	MULTIPURPOSE ROOM	-	-	-	-	-	-	-	-	-		
A101	LOBBY CORRIDOR	-	-	-	-	-	-	-	-	-		
A102	ADMINISTRATION	-	-	-	-	-	-	-	-	-		
A103	CLOSET	-	-	-	-	-	-	-	-	-		
A104	NURSE	-	-	-	-	-	-	-	-	-		
A105	TOILET	-	-	-	-	-	-	-	-	-		
A106	TOILET	-	-	-	-	-	-	-	-	-		
A107	TOILET	-	-	-	-	-	-	-	-	-		
A108	CORRIDOR	-	-	-	-	-	-	-	-	-		
A109	PRINCIPAL	-	-	-	-	-	-	-	-	-		
A110	VICE PRINCIPAL	-	-	-	-	-	-	-	-	-		
A111	WORK ROOM	-	-	-	-	-	-	-	-	-		
A112	STAFF LOUNGE	-	-	-	-	-	-	-	-	-		
A113	WORK ROOM	F-01	B-01	W-01, PT-01	PT-01	W-01, PT-01	W-01, PT-01	-	C-02, C-03	-	4	
A114	COMPUTER CLASSROOM	-	-	-	-	-	-	-	-	-		
A115	GIRLS RR	F-04	B-02	W-02	W-02	W-02	W-02	PT-03, PT-04	-	-	4	
A116	BOYS RR	F-04	B-02	W-02	W-02	W-02	W-02	PT-03, PT-04	-	-	4	
A119	CORRIDOR	-	-	-	-	-	-	-	-	-		
A122	STAGE	-	-	-	-	-	-	-	-	-		
A125	KITCHEN	-	-	-	-	-	-	-	-	-		
A128	LIBRARY	-	-	-	-	-	-	-	-	-		
A129	MECH	-	-	-	-	-	-	-	-	-		
A129A	MECH	-	-	-	-	-	-	-	-	-		
A130	WORK ROOM	-	-	-	-	-	-	-	-	-		
A131	ADMIN OFF	-	-	-	-	-	-	-	-	-		
A132	ADMIN OFF	-	-	-	-	-	-	-	-	-		
A133	CONFERENCE ROOM	-	-	-	-	-	-	-	-	-		
A134	SMALL CONF	-	-	-	-	-	-	-	-	-		
A135	ELECTRIC	-	-	-	-	-	-	-	-	-		
A136	FIRE RISER	-	-	-	-	-	-	-	-	-		
BUILDING B-LAKE TAHOE												
1	KINDERGARTEN CLASSROOM	F-01, F-02	B-01	PT-01	PT-01	PT-01	PT-01	PT-03, PT-04	C-01, C-02	PT-01	1, 2	
2	KINDERGARTEN CLASSROOM	F-01, F-02	B-01	PT-01	PT-01	PT-01	PT-01	PT-03, PT-04	C-01, C-02	PT-01	1, 2	
B3	READING ROOM	-	-	-	-	-	-	-	-	-		
B4	WORK ROOM	-	-	-	-	-	-	-	-	-	NO WORK	
B5	TOILET	F-04	B-02	W-02	W-02	W-02	W-02	PT-03, PT-04	-	-	4	
B6	TOILET	F-04	B-02	W-02	W-02	W-02	W-02	PT-03, PT-04	-	-	4	
B7	STORAGE	-	-	-	-	-	-	-	-	-		
BUILDING C-BODEGA BAY												
18	CLASSROOM	F-01, F-02	B-01	PT-01	PT-01	PT-01	PT-01	PT-03, PT-04	C-01, C-02	PT-01	1, 2	
19	CLASSROOM	F-01, F-02	B-01	PT-01	PT-01	PT-01	PT-01	PT-03, PT-04	C-01, C-02	PT-01	1, 2	
20	CLASSROOM	F-01, F-02	B-01	PT-01	PT-01	PT-01	PT-01	PT-03, PT-04	C-01, C-02	PT-01	1, 2	
C4	WORK ROOM	-	-	-	-	-	-	-	-	-	NO WORK	
BUILDING D-TRINIDAD BAY												
15	CLASSROOM	F-01, F-02	B-01	PT-01	PT-01	PT-01	PT-01	PT-03, PT-04	C-01, C-02	PT-01	1, 2	
16	CLASSROOM	F-01, F-02	B-01	PT-01	PT-01	PT-01	PT-01	PT-03, PT-04	C-01, C-02	PT-01	1, 2	
17	CLASSROOM	F-01, F-02	B-01	PT-01	PT-01	PT-01	PT-01	PT-03, PT-04	C-01, C-02	PT-01	1, 2	
D4	WORK ROOM	-	-	-	-	-	-	-	-	-	NO WORK	
BUILDING E-EMERALD BAY												
3	CLASSROOM	F-01, F-02	B-01	PT-01	PT-01	PT-01	PT-01	PT-03, PT-04	C-01, C-02	PT-01	1, 2	
4	CLASSROOM	F-01, F-02	B-01	PT-01	PT-01	PT-01	PT-01	PT-03, PT-04	C-01, C-02	PT-01	1, 2	
5	CLASSROOM	F-01, F-02	B-01	PT-01	PT-01	PT-01	PT-01	PT-03, PT-04	C-01, C-02	PT-01	1, 2	
E4	WORK ROOM	-	-	-	-	-	-	-	-	-	NO WORK	
BUILDING F-SAN FRANCISCO												
12	SDL CLASSROOM	F-01, F-02	B-01	PT-01	PT-01	PT-01	PT-01	PT-03, PT-04	C-01, C-02	PT-01	1, 2	
13	CLASSROOM	F-01, F-02	B-01	PT-01	PT-01	PT-01	PT-01	PT-03, PT-04	C-01, C-02	PT-01	1, 2	
14	RSP CLASSROOM	F-01, F-02	B-01	PT-01	PT-01	PT-01	PT-01	PT-03, PT-04	C-01, C-02	PT-01	1, 2	
F4	WORK ROOM	-	-	-	-	-	-	-	-	-	NO WORK	
F5	GIRLS RR	F-04	B-02	W-02	W-02	W-02	W-02	PT-04	-	-	4	
F6	BOYS RR	F-04	B-02	W-02	W-02	W-02	W-02	PT-04	-	-	4	
F7	JANITOR	-	-	-	-	-	-	-	-	-		
BUILDING G-MONTEREY BAY												
9	CLASSROOM	F-01, F-02	B-01	PT-01	PT-01	PT-01	PT-01	PT-03, PT-04	C-01, C-02	PT-01	1, 2	
10	CLASSROOM	F-01, F-02	B-01	PT-01	PT-01	PT-01	PT-01	PT-03, PT-04	C-01, C-02	PT-01	1, 2	
11	CLASSROOM	F-01, F-02	B-01	PT-01	PT-01	PT-01	PT-01	PT-03, PT-04	C-01, C-02	PT-01	1, 2	
G4	WORK ROOM	-	-	-	-	-	-	-	-	-	NO WORK	
BUILDING H-SHASTA LAKE												
6	CLASSROOM	F-01, F-02	B-01	PT-01	W-01, PT-01	PT-01	PT-01	PT-03, PT-04	C-01, C-02	PT-01	1, 2, 3	
7	CLASSROOM	F-01, F-02	B-01	PT-01	PT-01	PT-01	PT-01	PT-03, PT-04	C-01, C-02	PT-01	1, 2	
8	CLASSROOM	F-01, F-02	B-01	PT-01	PT-01	PT-01	PT-01	PT-03, PT-04	C-01, C-02	PT-01	1, 2	
H4	WORK ROOM	-	-	-	-	-	-	-	-	-	NO WORK	
PORTABLE BUILDINGS - DRAKES BAY												
21	PORTABLE CLASSROOM	-	-	PT-01	PT-01	PT-01	PT-01	PT-04	-	PT-01	2	
22	PORTABLE CLASSROOM	-	-	PT-01	PT-01	PT-01	PT-01	PT-04	-	PT-01	2	
PORTABLE BUILDINGS - MISSION BAY												
23	PORTABLE CLASSROOM	-	-	PT-01	PT-01	PT-01	PT-01	PT-04	-	PT-01	2	
24	PORTABLE CLASSROOM	-	-	PT-01	PT-01	PT-01	PT-01	PT-04	-	PT-01	2	
25	PORTABLE CLASSROOM	-	-	PT-01	PT-01	PT-01	PT-01	PT-04	-	PT-01	2	
26	PORTABLE CLASSROOM	-	-	PT-01	PT-01	PT-01	PT-01	PT-04	-	PT-01	2	
27	PORTABLE CLASSROOM	-	-	PT-01	PT-01	PT-01	PT-01	PT-04	-	PT-01	2	
28	PORTABLE CLASSROOM	-	-	PT-01	PT-01	PT-01	PT-01	PT-04	-	PT-01	2	
29	PORTABLE CLASSROOM	-	-	PT-01	PT-01	PT-01	PT-01	PT-04	-	PT-01	2	
I-01	BOYS RR	-	-	-	-	-	-	PT-04	-	-	2	
I-02	GIRLS RR	-	-	-	-	-	-	PT-04	-	-	2	
I-03	STAFF RR	-	-	-	-	-	-	PT-04	-	-	2	
I-04	JANITOR	-	-	-	-	-	-	PT-04	-	-	2	
PORTABLE BUILDINGS - TULE LAKE												
30	PORTABLE CLASSROOM	-	-	PT-01	PT-01	PT-01	PT-01	PT-04	-	PT-01	2	
31	PORTABLE CLASSROOM	-	-	PT-01	PT-01	PT-01	PT-01	PT-04	-	PT-01	2	
32	PORTABLE CLASSROOM	-	-	PT-01	PT-01	PT-01	PT-01	PT-04	-	PT-01	2	
33	PORTABLE CLASSROOM	-	-	PT-01	PT-01	PT-01	PT-01	PT-04	-	PT-01	2	
34	PORTABLE CLASSROOM	-	-	PT-01	PT-01	PT-01	PT-01	PT-04	-	PT-01	2	
35	PORTABLE CLASSROOM	-	-	PT-01	PT-01	PT-01	PT-01	PT-04	-	PT-01	2	
A	PORTABLE CLASSROOM	-	-	-	-	-	-	-	-	-		
B	PORTABLE CLASSROOM	-	-	-	-	-	-	-	-	-		
C	PORTABLE CLASSROOM	-	-	-	-	-	-	-	-	-		

### ROOM FINISH MATERIAL SPECIFICATION

FLOOR	WALL MATERIALS	FINISHES	FINISH SCHEDULE NOTES
F-01: MODULAR CARPET TILE Manufacturer: TANDUS Product: DYWIDAG SD 8629/780008 Color: 75007 MINERAL SPRING Contact: https://www.tandus-centiva.com/ 800-245-2878	W-01: 5/8" Gypsum Board W/ Texture to Match (E)  W-02: (E) Ceramic Tile W/ (N) Ceramic Tile over Gypsum Board Where Indicated on Interior Elevations	<b>PAINT</b> PT-01: Paint - Walls & Ceilings, Typical UNO Manufacturer: PPG Color: TBD  PT-02: Paint - Walls & Ceilings, Restrooms Manufacturer: PPG Color: TBD  PT-03: Paint - Interior Doors & Trim Manufacturer: PPG Color: TBD  PT-04: Paint - Exterior Doors and Trim Manufacturer: PPG Color: TBD	1. FLOORING FINISHES NOTED ARE INCLUDED IN ADD ALTERNATE #1. IF THIS ALTERNATE IS NOT ACCEPTED, OMIT THESE FINISHES. 2. WALL, CEILING AND DOOR PAINT FINISHES NOTED ARE INCLUDED IN ADD ALTERNATE #2. IF THIS ALTERNATE IS NOT ACCEPTED, OMIT THESE FINISHES. 3. WALL MATERIALS AND FINISHES AT EAST WALL ARE INCLUDED IN BASE BID. 4. FINISHES IN THIS ROOM ARE INCLUDED IN BASE BID.
F-02: MODULAR CARPET TILE Manufacturer: TANDUS Product: ABRASIVE ACTION II (WALK-OFF) Color: 02578-19103 WINTER GREY Contact: https://www.tandus-centiva.com/ 800-245-2878			
F-04: (E) CERAMIC TILE FLOORING TO REMAIN, DEEP CLEAN			
F-05: RUBBER RESILIENT FLOORING			

BASE	CEILING MATERIALS	CASEWORK / COUNTERTOPS
B-01: RESILIENT BASE Manufacturer: JOHNSONITE Style: TRADITIONAL WALL BASE - TOP SET WITH TOE Height: 4" Color: 63 BURNT UMBER	C-01: (E) Gypsum Board  C-02: (E) Lay-in Acoustic Panel Ceiling  C-03: Lay-in Acoustic Panel in Suspended Metal Grid Standard Acoustic Panels Manufacturer: Armstrong Style: Ultima Square Lay-In Size: 24" x 48" x 3/4"	PL-01: Plastic Laminate - Casework Manufacturer: Wilsonart Color: tbd Finish: tbd  PL-02: Plastic Laminate - Countertops Manufacturer: Wilsonart Color: 4830K-18, SATIN STAINLESS Finish: LINEARITY FINISH WITH AEON
B-02: (E) BASE TO REMAIN		

DOOR SCHEDULE												
No.	WIDTH	HEIGHT	THK	MAT	TYPE	FRAME		HARDWARE		COMMENTS		
						MAT	TYPE	GROUP	PANIC HARDWARE			
BUILDING A												
A100A	6'-0"	6'-8"	0'-1 3/4"	HM	EXISTING	HM	EXISTING	9	Yes	1,4		
A100B	6'-0"	6'-8"	0'-1 3/4"	HM	EXISTING	HM	EXISTING	9	Yes	1,4		
A101A	6'-0"	6'-8"	0'-1 3/4"	HM	EXISTING	HM	EXISTING	9	Yes	1,4		
A101B	6'-0"	6'-8"	0'-1 3/4"	HM	EXISTING	HM	EXISTING	9	Yes	1,4		
A106A	3'-0"	6'-8"	0'-1 3/4"	HM	EXISTING	HM	EXISTING	11	No	1		
A111A	3'-0"	6'-8"	0'-1 3/4"	HM	EXISTING	HM	EXISTING	11	No	1		
A112A	6'-0"	6'-8"	0'-1 3/4"	HM	EXISTING	HM	EXISTING	12	No	1		
A112B	3'-0"	6'-8"	0'-1 3/4"	HM	EXISTING	HM	EXISTING	1	No	1		
A114A	3'-0"	6'-8"	0'-1 3/4"	HM	EXISTING	HM	EXISTING	1	No	1		
A115	6'-0"	7'-0"	0'-1 3/4"	HM	EXISTING	HM	EXISTING	14	Yes	1,4		
A115A	3'-0"	6'-8"	0'-1 3/4"	HM	EXISTING	HM	EXISTING	2	No	1		
A116A	3'-0"	6'-8"	0'-1 3/4"	HM	EXISTING	HM	EXISTING	2C	No	1,2		
A117	3'-0"	6'-8"	0'-1 3/4"	HM	EXISTING	HM	EXISTING	7	No	1		
A119A	6'-0"	6'-8"	0'-1 3/4"	HM	EXISTING	HM	EXISTING	9	Yes	1,4		
A120	6'-0"	7'-0"	0'-1 3/4"	HM	EXISTING	HM	EXISTING	14	Yes	1,4		
A125A	3'-0"	6'-8"	0'-1 3/4"	HM	EXISTING	HM	EXISTING	11	No	1		
A126A	6'-0"	6'-8"	0'-1 3/4"	HM	EXISTING	HM	EXISTING	9	Yes	1,4		
A131	3'-0"	6'-8"	0'-1 3/4"	HM	EXISTING	HM	EXISTING	7	No	1		
A132	3'-0"	6'-8"	0'-1 3/4"	HM	EXISTING	HM	EXISTING	7	No	1		
A133A	3'-0"	6'-8"	0'-1 3/4"	HM	EXISTING	HM	EXISTING	8	Yes	1,4		
A134A	3'-0"	6'-8"	0'-1 3/4"	HM	EXISTING	HM	EXISTING	10	No	1		
BUILDING B-LAKE TAHOE												
B1A	3'-0"	6'-8"	0'-1 3/4"	HM	EXISTING	HM	EXISTING	EXISTING	No	3		
B1B	3'-0"	6'-8"	0'-1 3/4"	HM	EXISTING	HM	EXISTING	1B	No	1		
B2A	3'-0"	6'-8"	0'-1 3/4"	HM	EXISTING	HM	EXISTING	EXISTING	No	3		
B2B	3'-0"	6'-8"	0'-1 3/4"	HM	EXISTING	HM	EXISTING	1B	No	1		
B5A	3'-0"	6'-8"	0'-1 3/4"	HM	EXISTING	HM	EXISTING	2	No	1		
B6A	3'-0"	6'-8"	0'-1 3/4"	HM	EXISTING	HM	EXISTING	2	No	1		
B7	3'-0"	6'-8"	0'-1 3/4"	HM	EXISTING	HM	EXISTING	3	No	1		
BUILDING C-BODEGA BAY												
C4	3'-0"	6'-8"	0'-1 3/4"	HM	EXISTING	HM	EXISTING	EXISTING	No	3		
C18A	3'-0"	6'-8"	0'-1 3/4"	HM	EXISTING	HM	EXISTING	EXISTING	No	1		
C18B	3'-0"	6'-8"	0'-1 3/4"	HM	EXISTING	HM	EXISTING	1B	No	1		
C19A	3'-0"	6'-8"	0'-1 3/4"	HM	EXISTING	HM	EXISTING	1	No	1		
C20A	3'-0"	6'-8"	0'-1 3/4"	HM	EXISTING	HM	EXISTING	EXISTING	No	3		
C20B	3'-0"	6'-8"	0'-1 3/4"	HM	EXISTING	HM	EXISTING	1B	No	1		
BUILDING D-TRENDAD BAY												
D4	3'-0"	6'-8"	0'-1 3/4"	HM	EXISTING	HM	EXISTING	EXISTING	No	3		
D15A	3'-0"	6'-8"	0'-1 3/4"	HM	EXISTING	HM	EXISTING	EXISTING	No	3		
D15B	3'-0"	6'-8"	0'-1 3/4"	HM	EXISTING	HM	EXISTING	1	No	1		
D16A	3'-0"	6'-8"	0'-1 3/4"	HM	EXISTING	HM	EXISTING	2	No	1		
D17A	3'-0"	6'-8"	0'-1 3/4"	HM	EXISTING	HM	EXISTING	EXISTING	No	3		
D17B	3'-0"	6'-8"	0'-1 3/4"	HM	EXISTING	HM	EXISTING	1B	No	1		
BUILDING E-EMERALD BAY												
E3A	3'-0"	6'-8"	0'-1 3/4"	HM	EXISTING	HM	EXISTING	EXISTING	No	1		
E4	3'-0"	6'-8"	0'-1 3/4"	HM	EXISTING	HM	EXISTING	EXISTING	No	1		
E4A	3'-0"	6'-8"	0'-1 3/4"	HM	EXISTING	HM	EXISTING	1	No	1		
E5A	3'-0"	6'-8"	0'-1 3/4"	HM	EXISTING	HM	EXISTING	1	No	1		
BUILDING F-SAN FRANCISCO												
F5	3'-0"	6'-8"	0'-1 3/4"	HM	EXISTING	HM	EXISTING	2	No	1		
F6	3'-0"	6'-8"	0'-1 3/4"	HM	EXISTING	HM	EXISTING	3	No	1		
F7	3'-0"	6'-8"	0'-1 3/4"	HM	EXISTING	HM	EXISTING	5	No	1		
F12A	3'-0"	6'-8"	0'-1 3/4"	HM	EXISTING	HM	EXISTING	EXISTING	No	3		
F12B	3'-0"	6'-8"	0'-1 3/4"	HM	EXISTING	HM	EXISTING	1B	No	1		
F13A	3'-0"	6'-8"	0'-1 3/4"	HM	EXISTING	HM	EXISTING	1	No	1		
F14A	3'-0"	6'-8"	0'-1 3/4"	HM	EXISTING	HM	EXISTING	EXISTING	No	1		
F14B	3'-0"	6'-8"	0'-1 3/4"	HM	EXISTING	HM	EXISTING	EXISTING	No	3		
BUILDING G-MONTEREY BAY												
G4	3'-0"	6'-8"	0'-1 3/4"	HM	EXISTING	HM	EXISTING	EXISTING	No	3		
G9A	3'-0"	6'-8"	0'-1 3/4"	HM	EXISTING	HM	EXISTING	EXISTING	No	1		
G9B	3'-0"	6'-8"	0'-1 3/4"	HM	EXISTING	HM	EXISTING	1B	No	1		
G10A	3'-0"	6'-8"	0'-1 3/4"	HM	EXISTING	HM	EXISTING	1	No	1		
G11A	3'-0"	6'-8"	0'-1 3/4"	HM	EXISTING	HM	EXISTING	EXISTING	No	3		
G11B	3'-0"	6'-8"	0'-1 3/4"	HM	EXISTING	HM	EXISTING	1B	No	1		
BUILDING H-SHASTA LAKE												
H4	3'-0"	6'-8"	0'-1 3/4"	HM	EXISTING	HM	EXISTING	10	No	1		
H4A	3'-0"	6'-8"	0'-1 3/4"	HM	EXISTING	HM	EXISTING	1	No	1		
H7A	3'-0"	6'-8"	0'-1 3/4"	HM	EXISTING	HM	EXISTING	1	No	1		
H7A	3'-0"	6'-8"	0'-1 3/4"	HM	EXISTING	HM	EXISTING	1	No	1		
PORTABLE BUILDINGS - ORAKES BAY												
21A	3'-0"	7'-0"	0'-1 3/4"	HM	EXISTING	HM	EXISTING	1B	No	1		
22A	3'-0"	7'-0"	0'-1 3/4"	HM	EXISTING	HM	EXISTING	1B	No	1		
PORTABLE BUILDINGS - MISSION BAY												
23A	3'-0"	7'-0"	0'-1 3/4"	HM	EXISTING	HM	EXISTING	1B	No	1		
24A	3'-0"	7'-0"	0'-1 3/4"	HM	EXISTING	HM	EXISTING	1B	No	1		
25A	3'-0"	7'-0"	0'-1 3/4"	HM	EXISTING	HM	EXISTING	1B	No	1		
26A	3'-0"	7'-0"	0'-1 3/4"	HM	EXISTING	HM	EXISTING	1B	No	1		
27A	3'-0"	7'-0"	0'-1 3/4"	HM	EXISTING	HM	EXISTING	1B	No	1		
28A	3'-0"	7'-0"	0'-1 3/4"	HM	EXISTING	HM	EXISTING	1B	No	1		
29A	3'-0"	7'-0"	0'-1 3/4"	HM	EXISTING	HM	EXISTING	1B	No	1		
RRA	3'-0"	7'-0"	0'-1 3/4"	HM	EXISTING	HM	EXISTING	1	No	1		
RRB	3'-0"	7'-0"	0'-1 3/4"	HM	EXISTING	HM	EXISTING	5	No	1		
RRC	3'-0"	7'-0"	0'-1 3/4"	HM	EXISTING	HM	EXISTING	15	No	1		
RRD	3'-0"	7'-0"	0'-1 3/4"	HM	EXISTING	HM	EXISTING	1	No	1		
PORTABLE BUILDINGS - TULE LAKE												
30A	3'-0"	7'-0"	0'-1 3/4"	HM	EXISTING	HM	EXISTING	1B	No	1		
31A	3'-0"	7'-0"	0'-1 3/4"	HM	EXISTING	HM	EXISTING	1B	No	1		
32A	3'-0"	7'-0"	0'-1 3/4"	HM	EXISTING	HM	EXISTING	1B	No	1		
33A	3'-0"	7'-0"	0'-1 3/4"	HM	EXISTING	HM	EXISTING	1B	No	1		
34A	3'-0"	7'-0"	0'-1 3/4"	HM	EXISTING	HM	EXISTING	1B	No	1		
35A	3'-0"	7'-0"	0'-1 3/4"	HM	EXISTING	HM	EXISTING	1B	No	1		
A1	A1	3'-0"	7'-0"	0'-1 3/4"	HM	EXISTING	HM	EXISTING	7	No	1	
B1	B1	3'-0"	7'-0"	0'-1 3/4"	HM	EXISTING	HM	EXISTING	7	No	1	
C1	C1	3'-0"	7'-0"	0'-1 3/4"	HM	EXISTING	HM	EXISTING	7	No	1	



1. INDOOR UNIT, SEE SCHEDULE  
MOUNTING BRACKET SUPPLIED  
WITH INDOOR UNIT  
2. 3/8"x3" LAG SCREW, (TYP)  
3. 4"x4" BLOCKING, SECURE TO WALL  
FRAMING WITH A34 HANGER AT  
TOP & BOTTOM OF EACH END

NOTE:

1. INSTALL INDOOR UNIT PER  
MANUFACTURER'S  
RECOMMENDATIONS; PROVIDE  
ADDITIONAL BLOCKING AND  
HARDWARE WHERE REQUIRED BY  
MANUFACTURER.

2. COORDINATE WITH PLUMBING  
CONTRACTOR TO INSTALL  
CONDENSATE AS HIGH AS  
POSSIBLE FOR GRAVITY DRAINAGE.

INDOOR UNIT MOUNTING (WALL MOUNT)	NTS	1
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1. REFRIGERANT SUCTION LINE  
2. REFRIGERANT SUPPLY LINE  
3. 3/8" Ø MILITARY KB-TZ EXPANSION ANCHORS, 3" MIN EMBEDMENT. (TYP. 4)  
4. CONCRETE PAD.  
5. MIN. 6" ALL AROUND UNIT.

CONDENSING UNIT MOUNTING DETAIL

NTS	2
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ODU—A1	
NUMBER	
TYPE	PROPELLER FAN
MOUNTING	SLAB
MCA/MOCP	7
VOLTS/PHASE	208/1
COOLING CAP. (MBH)	9.0
AMB. TEMP. (°F)	95
CONDENSER COIL ROWS	1
SERVICE	IDU—A1
ACCESSORIES	SEE NOTES
OPER. WT. (LBS.)	155
MANUFACTURER	MITSUBISHI
MODEL	MUY—GLO9NA

NOTES:

1. ELECTRICAL CONTRACTOR TO PROVIDE DISCONNECT SWITCH.
2. MOUNT UNIT PER DETAIL 2/M0.1.

INDOOR UNIT SCHEDULE	
NUMBER	IDU-A1
TYPE	WALL
MOUNTING	ON WALL
MCA/MOP	1 / 15
VOLTS/PHASE	208/1
DRIVE	DIRECT
CFM	201
OUTSIDE AIR (CFM)	0
EADR / EAWB (FPH)	80 / 67
TOTAL CAPACITY (MBH)	9.0
SEER	24.6
FILTER EFFICIENCY	30%
SERVICE	WORK ROOM
ACCESSORIES	SEE NOTES
OPER. WT. (LBS.)	50
MANUFACTURER	MITSUBISHI
MODEL	MSY-GLO9NA
NOTES:	
1. PROVIDE MICROBLUE BLUE DIAMOND CONDENSATE PUMP.	
2. PROVIDE WIRED WALL MOUNTED CONTROLLER.	
3. INDOOR UNIT POWERED FROM OUTDOOR UNIT.	
4. ELECTRICAL CONTRACTOR TO PROVIDE DISCONNECT SWITCH.	
5. MOUNT UNIT PER DETAIL 1/MO.1.	

MECHANICAL LEGEND		
SYMBOL	ITEM	ABBR.
	SUPPLY AIR	SA
	RETURN AIR	RA
	EXHAUST AIR	EA
	OUTSIDE AIR	OSA
	TRANSFER AIR	TA
	DETAIL DESIGNATION DETAIL NUMBER SHEET NO. WHERE SHOWN	
	EQUIPMENT DESIGNATION UNIT ABBREVIATION NUMBER	
	GRILLE DESIGNATION NECK SIZE & BLOW (4 UON) FIRE DAMPER WHERE REQ'D CFM	
	ACOUSTIC LINED DUCT	L
	TURNING VANES	TV
	DUCT FLEXIBLE CONNECTION	
	DUCT RISER	
	DUCT DROP	
	RECTANGULAR TO ROUND FITTING	
	VOLUME CONTROL DAMPER	VD
	FIRE DAMPER W/ ACCESS	FD
	FIRE SMOKE DAMPER W/ ACCESS	FSD
	OPPOSED BLADE DAMPER	OBD
	BACKDRAFT DAMPER	BDD
	MOTORIZED DAMPER	
	THERMOSTAT @ +48° AFF	T-STAT
	SENSOR @ +48° AFF	
	TIMECLOCK @ +48° AFF	
	TEMPERATURE CONTROL PANEL	TCP
	DUCT SMOKE DETECTOR	SD
	PIPE RISER/DROP	(R)/(D)
	ABOVE FINISHED FLOOR	AFF
	UNLESS OTHERWISE NOTED	UON
	TYPICAL	(TYP)
	BOTTOM OF DUCT	BOD
	UNDERCUT DOOR 3/4"	UCD
	NEW	(N)
	EXISTING	(E)
	POINT OF DIS/CONNECTION	POD/POC

## EQUIPMENT ANCHORAGE NOTES

ALL MECHANICAL, PLUMBING, AND ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE DISA APPROVED CONSTRUCTION DOCUMENTS. THE FOLLOWING REQUIREMENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCE AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE 2022 CBC SECTIONS 1617A.1.18 THROUGH 1617A.1.26 AND ASCE 7-16 CHAPTERS 13, 26 AND 30.

1. ALL PERMANENT EQUIPMENT AND COMPONENTS.
2. TEMPORARY, MOVABLE OR MOBILE EQUIPMENT THAT IS PERMANENTLY ATTACHED (E.G. HARD WIRED TO THE BUILDING) OR UTILITY SERVICES SUCH AS ELECTRICITY, GAS OR WATER, "PERMANENTLY ATTACHED" SHALL INCLUDE ALL ELECTRICAL CONNECTIONS EXCEPT PLUGS FOR 110/220 VOLT RECEPTACLES HAVING A FLEXIBLE CABLE.
3. 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 IS REQUIRED TO BE RESTRAINED IN A MANNER APPROVED BY DSA.

THE FOLLOWING MECHANICAL AND ELECTRICAL COMPONENTS SHALL BE POSITIVELY ATTACHED TO THE STRUCTURE SUCH THAT THEY WILL MAINTAIN 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:

- A. 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.
- B. COMPONENTS WEIGHING LESS THAN 200 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 SHALL VERIFY THAT COMPONENTS AND EQUIPMENT HAVE BEEN ANCHORED IN ACCORDANCE WITH ABOVE REQUIREMENTS.

## PIPING AND DUCTWORK DISTRIBUTION SYSTEM BRACING NOTES

## MECHANICAL SPECIFICATIONS

A. THIS CONTRACTOR SHALL COMPLY WITH ALL CODES AND REGULATIONS IN EFFECT AT THE JOB SITE, INCLUDING, BUT NOT LIMITED TO:

- A.1. 2022 CALIFORNIA BUILDING CODE
- A.2. 2022 CALIFORNIA MECHANICAL CODE
- A.3. 2022 CALIFORNIA PLUMBING CODE
- A.4. 2022 CALIFORNIA ELECTRICAL CODE
- A.5. 2022 CALIFORNIA GREEN BUILDING STANDARDS
- A.6. 2022 CALIFORNIA BUILDING ENERGY EFFICIENCY STANDARDS – TITLE 24
- A.7. NATIONAL FIRE PROTECTION ASSOCIATION
- A.8. CALIFORNIA STATE FIRE MARSHAL

B. ALL MATERIALS AND EQUIPMENT INSTALLED UNDER THIS CONTRACT SHALL BE GUARANTEED FREE FROM ALL MECHANICAL, ELECTRICAL AND WORKMANSHIP DEFECTS FOR A PERIOD OF ONE YEAR FROM DATE OF FINAL ACCEPTANCE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING OR REPLACING ALL DAMAGED ITEMS INSTALLED UNDER THIS CONTRACT WITHOUT ADDITIONAL COST TO THE OWNER.

C. THE MECHANICAL CONTRACTOR SHALL PROVIDE THE OWNER COPIES OF OPERATION, MAINTENANCE AND PREVENTATIVE MAINTENANCE MANUALS FOR EACH MODEL AND TYPE OF MECHANICAL EQUIPMENT.

D. CHECK ALL SAFETY CONDITIONS PRIOR TO BEGINNING WORK. ADJUST THE LOCATION AND CONFIGURATION OF THE WORK NECESSARY TO SUIT ACTUAL CONDITIONS AND OTHER TRADES. ANY CHANGES REQUIRED MUST FIRST BE APPROVED BY THE ARCHITECT OR ENGINEER.

E. THE LOCATIONS OF EQUIPMENT, PIPING, DUCTWORK AND SYSTEMS SHOWN ON THE DRAWINGS ARE DIAGRAMMATIC AND HAVE BEEN PROVIDED AS SUGGESTED. POSSIBLE CHANGES REQUIRED TO SUIT EXISTING CONDITIONS AND DUE TO COORDINATION WITH OTHER TRADES SHALL BE MADE AT NO EXTRA COST TO THE OWNER.

F. SUBMIT MANUFACTURER'S PRODUCT DATA INCLUDING NAME OF MANUFACTURER, TRADE NAME, MODEL, CAPACITY, OPTIONS, DIMENSIONS, WEIGHTS, INSTALLATION AND STARTUP DATA. EQUIPMENT PERFORMANCES SCHEDULED ARE MAXIMUM CAPACITY, AIR FLOW, EFFICIENCY, ETC. REQUIRED. WEIGHTS AND ELECTRICAL DATA SCHEDULED IS MAXIMUM WEIGHT AND ALLOWABLE.

G. ALL EQUIPMENT IS TO BE INSTALLED AS RECOMMENDED BY THE MANUFACTURER. USING ALL ACCESSORY EQUIPMENT AVAILABLE FROM THE MANUFACTURER FOR SUPPORTS, CONTROLS, ETC.. TO MAKE A COMPLETE SYSTEM. ALL EQUIPMENT OR ACCESSORIES NEEDED AND NOT SHOWN OR SPECIFIED SHALL BE FURNISHED AND INSTALLED BY THE CONTRACTOR. ADVISE THE ARCHITECT FOR PROPER OPERATION, CHECK ALL CONTROLS AND VERIFY THAT ALL SAFETY DEVICES ARE FUNCTIONING PROPERLY.

H. PROVIDE ACCESS DOORS WHERE ACCESS THROUGH FLOORS, WALLS OR CEILINGS IS REQUIRED TO ACCESS MECHANICAL CONTROL SYSTEM COMPONENTS, FIRE/SMOKE DAMPERS, SMOKE DETECTORS, ETC., OR OTHER SYSTEMS REQUIRING ACCESS. PROVIDE INTERFERENCE FREE ACCESS TO THE EXACT TYPE AND LOCATION OF ACCESS DOORS TO PROVIDE PROPER ACCESS TO THE ITEM CONCERNED.

I. CHECK ALL PIPE AND DUCTWORK FOR LEAKS AND EXCESSIVE AIR LOSS AND NOSE. CORRECT ANY DEFICIENCIES AS SOON AS DISCOVERED. OPERATE THE SYSTEMS AS A TEST AND DEMONSTRATE TO THE OWNER AND ARCHITECT OR ENGINEER THAT THE SYSTEM IS FUNCTIONING PROPERLY.

J. GALVANIZED STEEL DUCTS SHALL BE ASTM A 653/A 659M GALVANIZED STEEL SHEET, FORMING STEEL (FS) DESIGNATION, WITH 60/2725 ZINC COATING.

K. FABRICATE, SUPPORT AND SEAL DUCTWORK IN ACCORDANCE WITH SMACNA HVAC DUCT CONSTRUCTION STANDARDS – METAL AND FLEXIBLE, AND AS INDICATED. PROVIDE DUCT MATERIAL, GLASS, REINFORCING, AND SEALING FOR 4" STATIC PRESSURE. UPSTREAM OF TERMINAL UNITS (WV, CW BOXES) AND 2" STATIC PRESSURE DOWNSTREAM OF TERMINAL UNITS (WV, CW BOXES).

L. CONSTRUCT DUCTWORK TIES, BENDS, AND ELBOWS WITH RADIIUS OF NOT LESS THAN 1-1/2 TIMES WIDTH OF DUCT ON CENTERLINE. WHERE NOT POSSIBLE RECTANGULAR ELBOWS MUST BE USED. PROVIDE AIR FLOW TURNING VANES. WHERE ADJUSTABLE LINING IS INDICATED, PROVIDE TURNING VANES OF PERFORATED METAL WITH GLASS FIBER INSULATION.

M. CONSTRUCTION OF DUCTWORK TIES, BENDS, AND ELBOWS SHALL MEET THE REQUIREMENTS OF NFPA 90A, UL 555, UL 555S, AND AS INDICATED. PROVIDE FACTORY SLEEVE AND COLLAR FOR EACH DAMPER.

N. ALL INSULATION AND LINER PRODUCTS SURFACE BURNING CHARACTERISTICS: FLAME SPREAD/SMOKE DEVELOPED INDEX OF 25/50, MAXIMUM, WHEN TESTED IN ACCORDANCE WITH ASTM E 84, NFPA 255, UL OR UL 723.

O. DUCT INSULATION BLANKET (INTERIOR APPLICATIONS):

- O.1. INSULATION: ASTM C553, FLEXIBLE, NONCOMBUSTIBLE BLANKET. "K" (KST) VALUE: 0.31 AT 75 DEGREES F (0.045 AT 24 DEGREES C), WHEN TESTED IN ACCORDANCE WITH ASTM C 518, MAXIMUM SERVICE TEMPERATURE: 250 DEGREES F (121 DEGREES C). MAXIMUM MOISTURE ABSORPTION: 0.20 PERCENT BY VOLUME. DUCT APPLICATION: 2" THICK, 3/4 LB. DENSITY.
- O.2. VAPOR BARRIER: KRAFT PAPER WITH GLASS FIBER YARN AND BONDED TO ALUMINIZED FILM. MOISTURE VAPOR TRANSMISSION: ASTM E 96, 0.02 PERM. SECURE WITH PRESSURE SENSITIVE TAPE.

P. DUCT INSULATION BOARD (EXTERIOR APPLICATIONS):

- P.1. INSULATION: ASTM C553, FLEXIBLE, NONCOMBUSTIBLE BLANKET. "K" (KST) VALUE: 0.24 AT 75 DEGREES F (0.036 AT 24 DEGREES C), WHEN TESTED IN ACCORDANCE WITH ASTM C 518, MAXIMUM SERVICE TEMPERATURE: 250 DEGREES F (121 DEGREES C). MAXIMUM MOISTURE ABSORPTION: 0.20 PERCENT BY VOLUME. DENSITY: 3.0 LB/CU FT (48 KG/CU M).
- P.2. VAPOR BARRIER: KRAFT PAPER WITH GLASS FIBER YARN AND BONDED TO ALUMINIZED FILM. MOISTURE VAPOR TRANSMISSION: ASTM E 96, 0.04 PERM. SECURE WITH PRESSURE SENSITIVE TAPE.

Q. ALUMINUM KRAFT: ASTM B 209 (ASTM B 209), THICKNESS: 0.016 INCH (0.40 MM) SHEET. FINISH: SMOOTH. JOINTING: LONGITUDINAL SPLT JOINTS AND 2 INCH (50 MM) SPLTS. FITTINGS: 0.016 INCH (0.40 MM) THICK DIE SHAPED FITTING COVERS WITH FACTORY ATTACHED PROTECTIVE LINER. METAL KRAFT BANDS: 3/8 INCH (10 MM) WIDE, 0.015 INCH (0.38 MM) THICK ALUMINUM.

Q. LINER LAMINATE:

- Q.1. INSULATION: INCOMBUSTIBLE GLASS FIBER COMPLYING WITH ASTM C 1071; FLEXIBLE BLANKET; WITH ACRYLIC POLYMER SHOWN TO BE FUNGUS AND BACTERIA RESISTANT BY TESTING TO ASTM C 21 IMPREGNATED SURFACE AND EDGE COAT. APPARENT THERMAL RESISTANCE: MAXIMUM OF 0.31 AT 75 DEGREES F (0.045 AT 24 DEGREES C). DUCT APPLICATION: 1-1/2" THICK, 0.016 INCH (0.40 MM) THICK. SERVICE TEMPERATURE UP TO 250 DEGREES F (121 DEGREES C). RATED VELOCITY ON COATED AIR SIDE FOR AIR EROSION: 5,000 FPM (25.4 M/S), MINIMUM.
- Q.2. LINER FASTENERS: GALVANIZED STEEL SHEET METAL WELD PINS OR CLINCH PINS AND WASHERS.

R. INSULATED FLEXIBLE:

- R.1. FLEXIBLE DUCTS SHALL BE UL LISTED AND SHALL COMPLY WITH UL STANDARD 66-1.
- R.2. THE MAXIMUM LENGTH OF FLEXIBLE DUCTWORK SHALL BE 5 FEET PER CMC SECTION 603.4.1 DUCTWORK SHALL BE EXTENDED TO FULL LENGTH WHENEVER POSSIBLE WITHOUT SEVERE BENDS OR KINKS. BENDS SHALL BE MADE TO MAINTAIN R/W EGOAT, 1 TO 1.5.
- R.3. BACK SUPPORT MUST BE SUPPORTED BY HELICALLY WOUND SPRING STEEL WIRE, FIBERGLASS INSULATION, POLYETHYLENE VAPOR BARRIER FILM.
- R.3.1. PRESSURE RATING: 4 INCHES WG POSITIVE PRESSURE AND 1 INCH NEGATIVE PRESSURE.
- R.3.2. INSULATION SHALL BE 1-1/2 INCH THICK FIBERGLASS.
- R.3.3. MAXIMUM VELOCITY: 4000 FPM (20.3 M/SEC).
- R.3.4. TEMPERATURE: RANGE – (20 DEGREES F) TO 175 DEGREES F (–28 DEGREES C TO 79 DEGREES C).

S. AIR FLOW TURNING VANES: TRANSVERSE VANES IN ALL SHEETMETAL DUCTWORK WITH HARDCOAT RIB GRIP PERMANENT FLEXIBLE TAPE BASED DUCT SEALANT.

T. DURING CONSTRUCTION DUCTWORK TEMPORARY CLOSURES OF METAL OR TAPED POLYETHYLENE ON OPEN DUCTWORK TO PREVENT CONSTRUCTION DUST FROM ENTERING DUCTWORK SYSTEM.

U. ALL BRANCH DUCTS SHALL HAVE BALANCING DAMPERS WITH ACCESSIBLE LOOKING TYPE QUADRANT, WHERE DAMPER IS INACCESSIBLE, PROVIDE REGULATOR MODEL: 270–3011 CABLE TIE WITH EITHER 830A–C (RECTANGULAR) OR 5020–C (ROUND) DAMPER.

V. MEET TOTAL SYSTEMS BALANCE IN ACCORDANCE WITH ASHRAE, SMACNA, UL 111, OR NEBB PERFORMANCE STANDARDS FOR TESTING, BALANCING AND ADJUSTING OF ENVIRONMENTAL SYSTEMS.

W. THE INSTALLATION OF DUCT SMOKE DETECTORS FOR AUTOMATIC SHUTOFF OF AIR MOVING SYSTEMS AS REQUIRED BY CODE SHALL BE REQUIRED FOR THE OPERATION OF FIRE SMOKE DAMPERS SHALL COMPLY WITH THE REQUIREMENTS OF THE LOCAL FIRE DEPARTMENT'S STANDARD "FIRE PROTECTION DESIGN GUIDELINES FOR SMOKE CONTROL WITHIN BUILDINGS". WHERE AIR DUCT SMOKE DETECTORS SERVING AIR-MOVING SYSTEMS ARE INSTALLED WITHIN CONCEALED SPACES, AND/OR DROP CEILING AREAS, THE DETECTOR SHALL BE PROVIDED WITH THE UNIT SMOKE REMOTE RESET/ALARM LID DOCK. SHALL BE LABELED TO CLEARLY IDENTIFY THE UNIT SERVED (AC–1, ETC.). WHERE AIR DUCT SMOKE DETECTORS SERVING AIR-MOVING SYSTEMS ARE INSTALLED IN CONCEALED SPACES, AND/OR DROP CEILING AREAS MORE THAN 10 FEET ABOVE THE FINISHED FLOOR, THE DETECTOR SHALL BE PROVIDED WITH A REMOTE TEST AND RESET SWITCH, AND REMOTE TEST AND RESET SWITCH SHALL BE ATTACHED TO AN ADJACENT WALL OR CEILING COLUMN AT A MINIMUM HEIGHT OF 6 FEET ABOVE FINISHED FLOOR. PRIOR TO MECHANICAL PERMIT FINAL, A SMOKE DETECTOR SHUT-OFF TEST WILL BE REQUIRED.

MECHANICAL SHEET INDEX	
SHEET NO.	SHEET TITLE
M0-1	MECHANICAL NOTES, LEGENDS, & SPECIFICATIONS
M2-1	MECHANICAL FLOOR PLANS BLDG. A



1. FIELD VERIFY EXISTING CONDITIONS PRIOR TO PERFORMING WORK AND NOTIFY ARCHITECT/ENGINEER OF ANY CONFLICTS/DISCREPANCIES.

- ① ROUTE REFRIGERANT PIPING TO CORRESPONDING INDOOR UNIT PER MANUFACTURERS REQUIREMENTS.
- ② ADJUST (E) GRILLES AS NEEDED FOR CEILING WORK. SEE ARCHITECTURAL PLANS.

IDENTIFICATION STAMP  
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REVIEWED FOR  
SS ☐ FLS ☒ ACS ☒  
DATE: 05/24/2023

**AC MARTIN**  
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1209 Pleasant Grove Blvd.  
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p 916-771-0778

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Job #: 18-2150

 $\frac{1}{4}'' = 1'-4$ 

1/4" = 1'-4"

$$1/8" = 1'-0"$$
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client / project

sheet name

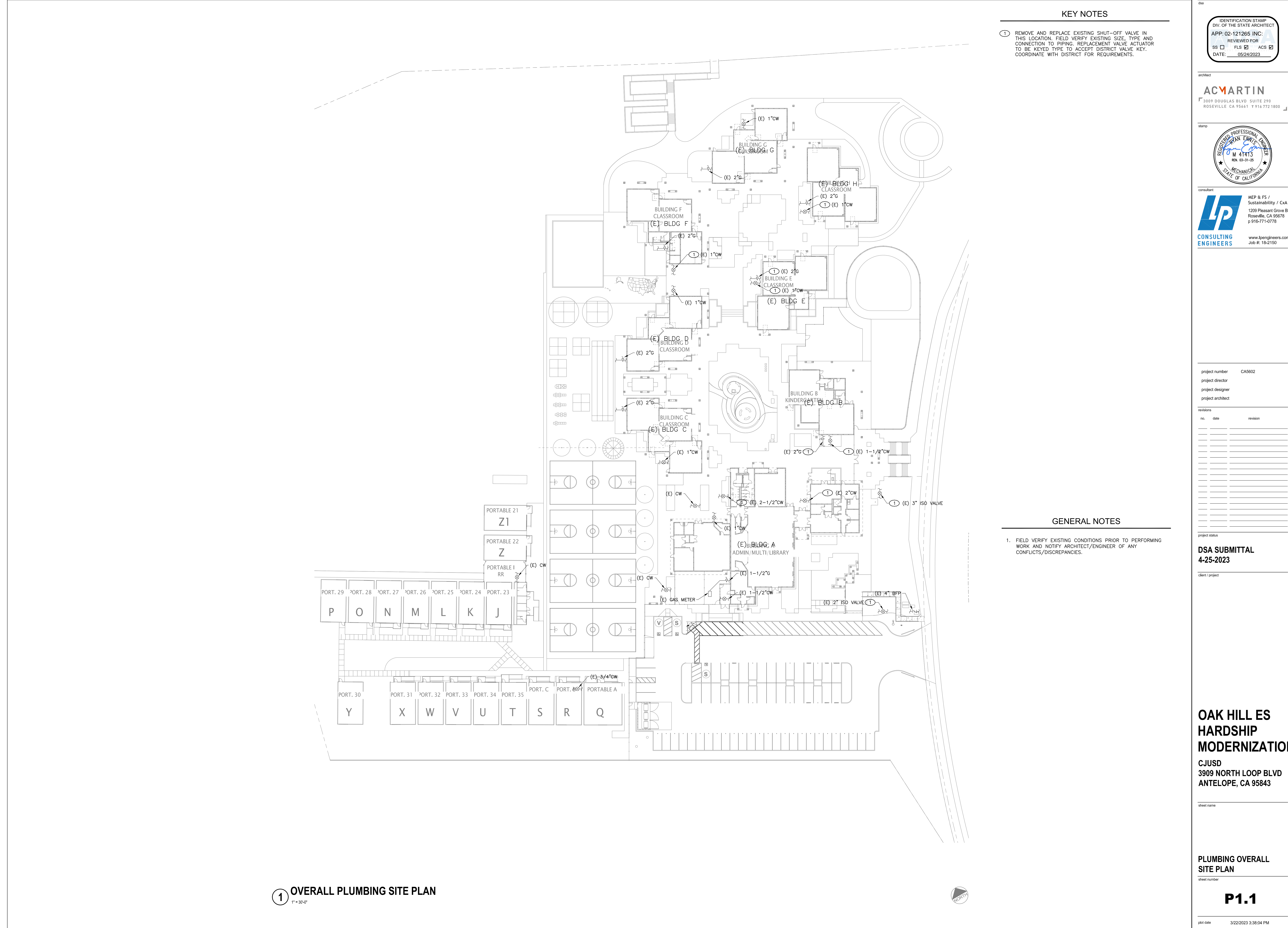
sheet number

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KEY NOTES

- 1 REMOVE AND REPLACE EXISTING SHUT-OFF VALVE IN THIS LOCATION. FIELD VERIFY EXISTING SIZE, TYPE AND CONNECTION TO PIPING. REPLACEMENT VALVE ACTUATOR TO BE KEYED TYPE TO ACCEPT DISTRICT VALVE KEY. COORDINATE WITH DISTRICT FOR REQUIREMENTS.

GENERAL NOTES

1. FIELD VERIFY EXISTING CONDITIONS PRIOR TO PERFORMING WORK AND NOTIFY ARCHITECT/ENGINEER OF ANY CONFLICTS/DISCREPANCIES.

1 OVERALL PLUMBING SITE PLAN  
1" = 30'-0"

dsa

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project number CA5602  
project director  
project designer  
project architect

revisions  
no. date revision

project status

DSA SUBMITTAL  
4-25-2023

client / project

OAK HILL ES  
HARDSHIP  
MODERNIZATION  
CJUSD  
3909 NORTH LOOP BLVD  
ANTELOPE, CA 95843

sheet name

PLUMBING OVERALL  
SITE PLAN

sheet number

P1.1

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1. FIELD VERIFY EXISTING CONDITIONS PRIOR TO PERFORMING WORK AND NOTIFY ARCHITECT/ENGINEER OF ANY CONFLICTS/DISCREPANCIES.
2. CLEAN EXISTING PLUMBING FIXTURES AND APPURTENANCES INSIDE RESTROOMS WITHIN SCOPE OF WORK. VERIFY FIXTURES AND FITTINGS ARE SECURED AND SEALED, OR REPAIR AS NECESSARY.

- ① REMOVE (E) PLUMBING FIXTURE SHOWN HATCHED. PIPING TO REMAIN FOR CONNECTION TO (N) FIXTURE.
- ② RECONNECT (N) PLUMBING FIXTURE TO (E) PIPING AS NEEDED.
- ③ ROUTE CONDENSATE DRAIN ABOVE CEILING FROM IDU CONDENSATE PUMP PROVIDED BY MECHANICAL. DROP IN EXTERIOR WALL AND ELBOW OUT AND DOWN AT +8" ABOVE PLANTER. PAINT OUTLET TO MATCH BUILDING EXTERIOR.

An identification stamp from the Division of the State Architect. It contains the following text: "IDENTIFICATION STAMP", "DIV. OF THE STATE ARCHITECT", "APP: 02-121265 INC:", "REVIEWED FOR", "SS ☐ FLS ☒ ACS ☒", and "DATE: 05/24/2023".

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## P2.1

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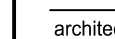




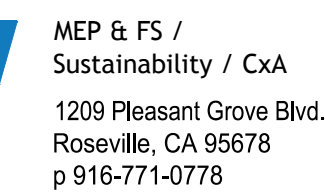
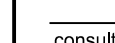




- ## GENERAL NOTES
- 
1. FIELD VERIFY EXISTING CONDITIONS PRIOR TO PERFORMING WORK AND NOTIFY ARCHITECT/ENGINEER OF ANY CONFLICTS/DISCREPANCIES.
  2. CLEAN EXISTING PLUMBING FIXTURES AND APPURTENANCES INSIDE RESTROOM WITHIN SCOPE OF WORK. VERIFY FIXTURES AND FITTINGS ARE SECURED AND SEALED, OR REPAIR AS NECESSARY.



sta



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project director	
project designer	
project architect	

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project status

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## OAK HILL ES HARDSHIP MODERNIZATION

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## ENLARGED PLUMBING FLOOR PLANS

sheet number

### P3.1

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ELECTRICAL ABBREVIATIONS	
SYMBOL	DESCRIPTIONS
A/AMP	AMPERES
AC	ALTERNATING CURRENT
AF	ABOVE FINISHED FLOOR
AFC	ABOVE FINISHED CEILING
AFG	ABOVE FINISHED GRADE
AIC	AMPERES INTERRUPTING CAPACITY (SYMMETRICAL)
C	CONDUIT
CCT	CIRCUIT
CKT	CIRCUIT
DC	DIRECT CURRENT
(E)	EXISTING TO REMAIN
EC	EMPTY CONDUIT
EM	EMERGENCY
EMT	ELECTRICAL METALLIC TUBING
FACP	FIRE ALARM CONTROL PANEL
FLA	FULL LOAD AMPS
FLEX	FLEXIBLE METALLIC CONDUIT
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
GND/G	GROUND
	GROUNDPOWER
IG	ISOLATED GROUND
J-BOX	JUNCTION BOX
KVA	KILOVOLT-AMPS
KW	KILOWATTS
LTG	LIGHTING
MCA	MINIMUM CIRCUIT AMPACITY
MCB	MAIN CIRCUIT BREAKER
MLO	MAIN LUGS ONLY
MTD	MOUNTED
(N)	NEW
N	NEUTRAL CONDUCTOR (GROUND CIRCUIT CONDUCTOR)
N.I.E.S.	NOT IN ELECTRICAL SCOPE OR SPECIFICATIONS
NL	NIGHT LIGHT
PH/P	PHASE OR POLE
PNL	PANELBOARD
PVC	POLYVINYL CHLORIDE CONDUIT (SCHEDULE 40)
(R)	RELOCATE/RELOCATED
RECEP	RECEPTACLE
RGSC	RIGID GALVANIZED STEEL CONDUIT
U	UNSWITCHED
UNO	UNLESS NOTED OTHERWISE
V	VOLTAGE OR VOLTS
W	WATTS
WP	WEATHERPROOF
WPU	WEATHERPROOF WHILE IN USE
(X)	REMOVE
XFMR	TRANSFORMER

TECHNOLOGY SHEET INDEX	
SHEET NO.	SHEET TITLE
T0.1	TECHNOLOGY ABBREVIATIONS, NOTES AND SHEET INDEX
T0.2	TECHNOLOGY SYMBOL LEGEND
T1.1	TECHNOLOGY SITE PLAN
T2.1	TECHNOLOGY FLOOR PLAN— BLDG. A
T2.2	TECHNOLOGY FLOOR PLANS— BLDG. B & C & D & E
T2.3	TECHNOLOGY FLOOR PLANS— BLDG. F & G & H & PORTABLES
T3.1	TECHNOLOGY DIAGRAMS
T3.2	TECHNOLOGY ONE LINE, SCHEDULES AND DETAILS

## DEMOLITION GENERAL NOTES

ALL DEMOLITION GENERAL NOTES SHOWN BELOW ARE NOT NECESSARILY USED ON PLANS IF NOT REQUIRED.

1. ALL EXISTING EQUIPMENT, DEVICES, CONDUIT AND WIRING, ETC., WHERE SHOWN ON PLANS ARE BASED ON AVAILABLE EXISTING DOCUMENTS AND LIMITED SITE SURVEYS AND ARE SHOWN FOR CLARITY. CONTRACTOR SHALL ASSUME AN APPROXIMATION ONLY. CONSTRUCTION CONTRACTOR AGREES THAT IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, THE CONTRACTOR WILL BE REQUIRED TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THE PROJECT, PRIOR TO SUBMITTING BID AND BEFORE START OF ANY ELECTRICAL WORK, CONTRACTOR SHALL VERIFY ON-SITE ALL EXISTING LOCATIONS AND CONDITIONS TO ASCERTAIN ALL WORK REQUIRED.
2. EXISTING ELECTRICAL MAIN SERVICE IS TO BE REPLACED WITH NEW THAT IS TO BE INCLUDED IN THE SCOPE OF WORK. CONTRACTOR SHALL VERIFY AND COORDINATE THE SEQUENCE OF WORK WITH THE LOCAL UTILITY COMPANY. OWNER/DISTRICT'S REPRESENTATIVE AND OTHER TRADES AT THE EARLIEST START OF CONSTRUCTION FOR ALL REQUIREMENT AND SCHEDULE THE REQUIRED WORK FOR A SMOOTH AND TIMELY TRANSFORMATION FROM THE EXISTING SERVICE TO THE NEW SERVICE TO ENSURE THE SEQUENCE OF WORK. CONTRACTOR SHALL MAINTAIN THE ELECTRICAL SERVICE TO THE ELECTRICAL SHUTDOWN TO A MINIMAL SO IT WILL NOT AFFECT THE EXISTING FACILITY'S NORMAL DAILY FUNCTIONS AND OPERATION.
3. CAUSE AS LITTLE INTERFERENCE OR INTERRUPTION OF EXISTING UTILITIES AND/OR OTHER EXISTING FACILITY'S SYSTEMS AND SERVICES AS POSSIBLE. CONTRACTOR SHALL NOTIFY THE OWNER/DISTRICT'S REPRESENTATIVE AT LEAST 72 HOURS TO SCHEDULE ALL NECESSARY SHUTDOWN, SHUTDOWN WORK SHALL BE PERFORMED OUTSIDE OF NORMAL OPERATIONAL HOURS OF THE FACILITY, IF SO DIRECTED BY THE OWNER/DISTRICT'S REPRESENTATIVE.
4. ALL REMOVED AND/OR DEMOLISHED ELECTRICAL MATERIALS AND EQUIPMENT TO BE ACCOMPISHED UNDER THIS CONTRACT, WHICH IN THE OPINION OF THE OWNER/DISTRICT'S REPRESENTATIVE ARE DEEM SALVAGEABLE, SHALL REMAIN THE PROPERTY OF THE OWNER/DISTRICT. ALL ELECTRICAL MATERIAL AND EQUIPMENT CONSIDERED NOT SALVAGEABLE SHALL BE REMOVED FROM THE SITE AND DISPOSED BY THE CONTRACTOR ACCORDINGLY.
5. WHERE REMOVAL OF AN EXISTING SYSTEM'S DEVICE WILL RESULT IN LOSS OF CIRCUIT CONTINUITY, CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL OF THE REMOVED DEVICES AND PROVIDE SERVICE TO ALL REMAINING DEVICES, IF SITE CONDITIONS MAKE RECONNECTION IMPOSSIBLE, CONNECTION SHALL BE MADE FROM AN ADJACENT AVAILABLE DEVICE AS NOTED AND/OR AS DIRECTED BY THE ARCHITECT AND/OR THE OWNER/DISTRICT'S REPRESENTATIVE.
6. WHERE EXISTING CONCEALED CONDUITS, WHETHER SHOWN OR NOT, ARE SPECIFIED TO BE REUSED, WHICH BECAME EXPOSED DUE TO CONSTRUCTION CHANGES, IT SHALL BE REROUTED TO THE NEAREST AVAILABLE REUSED OUTLET.
7. ALL EXISTING EXPOSED CONDUITS AND/OR WIRING THAT ARE DETERMINED BY THE DISTRICT AND ARCHITECT TO BE NECESSARY FOR EXISTING SYSTEM FUNCTION AND CONTINUITY, WHETHER SHOWN ON PLAN OR NOT, ARE TO BE REROUTED CONCEALED IN WALL AND/OR CEILING FOR A CLEAN FINISHED SURFACE WITH NO EXPOSED CONDUITS AND/OR WIRING WITHIN THE REMODELED AREA.
8. REMOVE ALL EXISTING EXPOSED CONDUITS, WIRING, ELECTRICAL OUTLETS, DEVICES AND EQUIPMENT THAT ARE DETERMINED BY THE DISTRICT AND ARCHITECT TO BE NON FUNCTIONAL AND/OR NOT BEING USED FROM WITHIN THE REMODELED AREA FOR A CLEAN FINISHED SURFACE.
9. WHERE EXISTING WIRING OR EQUIPMENT IS ABANDONED AS A RESULT OF THIS CONTRACT, IT SHALL BE REMOVED INSOFAR AS POSSIBLE. THIS INCLUDES BUT IS NOT LIMITED TO:
  - A. REMOVE ALL WIRE AND CABLE.
  - B. REMOVE ALL DEVICES AND EQUIPMENT.
  - C. REMOVE ALL EXPOSED CONDUIT AND CONDUIT IN ACCESSIBLE CONCEALED AREA, AS FAR AS POSSIBLE.
  - D. CUT OFF AND CAP ALL ABANDONED CONDUIT. STUBS SHALL NOT BE PROTRUDED ABOVE FLOOR AND/OR FINISHED WALLS AND CEILINGS.
10. WHEREVER EXISTING ELECTRICAL DEVICES, PANELS, CONDUITS, CABLES, ETC., CONFLICT WITH REMODEL WORK, WHETHER SHOWN OR NOT, RELOCATE THESE ITEMS AS DIRECTED BY THE ARCHITECT AND/OR OWNER/DISTRICT'S REPRESENTATIVE.
11. WHERE SHOWN ON PLAN FOR REMOVAL OF EXISTING CONDUITS, REMOVE ALL PORTIONS OF CONDUITS THAT ARE ACCESSIBLE. REMOVE ALL PORTIONS OF CONDUITS WHERE IT IS UNSUCCESSFUL TO CUT OFF AND CAP ALL ABANDONED CONDUITS. STUBS SHALL NOT BE PROTRUDED ABOVE FLOOR AND/OR FINISHED WALLS AND CEILINGS.
12. CONTRACTOR SHALL UPDATE WITH NEW TYPED WRITTEN PANEL DIRECTORY TO EXISTING PANELS INVOLVED IN THIS RENOVATION WORK THAT SHALL REFLECT ALL CHANGES TO THE CIRCUIT DESIGNATIONS.
13. PROVIDE AND INSTALL PROTECTIVE COVERING OVER EXISTING EQUIPMENT IN AREA WHEN INSTALLING ANY NEW WORK.
14. COORDINATE WITH OTHER TRADES AND PROMPTLY TRANSMIT ALL INFORMATION REQUIRED BY THEM. COORDINATE THE SEQUENCE OF DEMOLITION WITH OTHER TRADES TO ENSURE THAT ALL WORK PROCEEDS WITH A MINIMUM OF INTERFERENCE AND DELAY.
15. REFER TO MECHANICAL AND PLUMBING DRAWING FOR HEATERS, EXHAUST FANS, WATER HEATERS, PUMPS, AND ETC., WHICH REQUIRE TO BE DISCONNECTED BY THE ELECTRICAL CONTRACTOR FOR REMOVAL OR ABANDONMENT BY THE MECHANICAL AND/OR PLUMBING CONTRACTOR. THE ELECTRICAL CONTRACTOR SHALL COORDINATE THE SEQUENCE FOR WORK WITH THE MECHANICAL AND/OR PLUMBING CONTRACTOR FOR REMOVAL OF ALL APPLICABLE STARTERS, DISCONNECT SWITCHES AND ASSOCIATED CONDUIT AND WIRING.
16. ALL LIGHT FIXTURES INDICATED AS RELOCATED SHALL BE CLEANED AND RE-LAMPED PRIOR TO THE RE-INSTALLATION.

### GENERAL NOTES

ALL GENERAL NOTES SHOWN BELOW ARE NOT NECESSARILY USED ON PLANS IF NOT REQUIRED.

1. THESE GENERAL NOTES ARE INTENDED TO ASSIST THE CONTRACTOR IN THE EXECUTION OF THE ELECTRICAL WORK AND TO BE INCLUDED IN CONJUNCTION WITH THE CONTRACT DOCUMENT DRAWINGS AND SPECIFICATION REQUIREMENTS. SOME OF THE GENERAL NOTES ARE EXCERPTS FROM THE SPECIFICATION.
2. PROCURE PERMITS AND LICENSES REQUIRED, PAY ALL NECESSARY FEES AND ARRANGE FOR INSPECTIONS REQUIRED BY LOCAL CODES AND ORDINANCES AND UTILITY COMPANIES.
3. COORDINATE ALL ELECTRICAL SERVICES WITH THE RESPECTIVE UTILITY COMPANIES AND PROVIDE ALL TRENCHING, CONDUITS, WIRING, METER FACILITIES AND OUTLETS REQUIRED BY THEM.
4. WORKMANSHIP SHALL BE OF THE HIGHEST GRADE. DEFECTIVE EQUIPMENT OR EQUIPMENT DAMAGED IN THE COURSE OF INSTALLATION OR TEST SHALL BE REPLACED OR REPAIRED IN A MANNER MEETING WITH THE ACCEPTANCE OF THE ARCHITECT.
5. INSTALL ALL EQUIPMENT, CONDUITS, OUTLETS, AND FIXTURES IN STRICT ACCORDANCE WITH THE CURRENT EDITION OF ALL APPLICABLE CODES (CEC, STATE, COUNTY AND CITY).
6. DO NOT SCALE PLANS FOR FIXTURES, DEVICES, OR APPLIANCE LOCATIONS. USE FIGURED DIMENSIONS. IF GIVEN OR CHECK MECHANICAL AND ARCHITECTURAL PLANS. ALSO REFER TO ACTUAL ON-SITE CONDITIONS.
7. ALL MATERIAL AND EQUIPMENT IS TO BE LISTED AND INSTALLED PER MANUFACTURER'S SPECIFICATIONS AND CEC 110.3.
8. ALL ELECTRICAL DEVICES AND EQUIPMENT, FIXTURES, CONDUITS AND WIRING SHOWN ON THESE PLANS ARE NEW, UNLESS OTHERWISE NOTED.
9. OUTLET BOXES INSTALLED IN FIRE WALLS SHALL BE ONE-PIECE STEEL AND INSTALLED IN SEPARATE (STAGGERED) STUD PENETRATIONS, MINIMUM 24 INCHES HORIZONTAL SEPARATION. FIRE WALLS SHALL BE MADE IN ACCORDANCE WITH CBC AND ELECTRICAL CODES.
10. THE FINAL LOCATION OF ALL OUTLETS SHALL BE VERIFIED WITH THE ARCHITECT AND/OR OWNER AT TIME OF CONSTRUCTION.
11. ALL OUTDOOR ELECTRICAL EQUIPMENT SHALL BE WEATHER-PROTECTED.
12. CONTRACTOR SHALL VERIFY THAT ALL LIGHTING FIXTURES, CEILING TRIMS, AND FRAMES ARE COMPATIBLE WITH CEILING SYSTEM INSTALLED.
13. CONTRACTOR SHALL COORDINATE LIGHT FIXTURE LOCATIONS AND INSTALLATIONS WITH THE MECHANICAL CONTRACTOR. MAINTAIN REQUIRED CLEARANCES (MINIMUM 3 INCHES) BETWEEN THE LIGHT FIXTURES AND MECHANICAL DUCTS OR EQUIPMENT FOR PROPER OPERATION, INSTALLATION AND/OR REMOVAL OF FIXTURES.
14. BEFORE SUBMITTING FOR ARCHITECT'S REVIEW AND PLACING ORDER FOR THE LIGHT FIXTURES, THE CONTRACTOR SHALL VERIFY THE VOLTAGE OF ALL THE LIGHTING FIXTURES TO MATCH THE VOLTAGE OF THE SERVICE PANEL, WHETHER THE VOLTAGE FOR THE LIGHT FIXTURES ARE SHOWN ON THE PLAN OR NOT.
15. PLACEMENT AND CIRCUITING OF EXIT SIGNS AND EGRESS LIGHTING SHALL COMPLY WITH CBC REQUIREMENTS.
16. ALL CONDUIT SHALL BE ROUTED CONCEALED UNLESS NOTED ON PLAN OR ACCEPTED BY THE ARCHITECT.
17. PROVIDE ALL NECESSARY SLEEVES AND INSERTS FOR ALL WORK PASSING THROUGH OR ATTACHING TO WALLS, FLOORS, OR CEILINGS.
18. ALL WIRING SHALL BE INSTALLED IN RIGID METALLIC CONDUIT, UNLESS OTHERWISE NOTED. CONDUITS INSTALLED CONCEALED IN WALL AND CEILING MAY BE EMIT WITH STEEL COMPRESSION TYPE FITTINGS. PVC WHEN INSTALLED UNDERGROUND AND/OR UNDER SLAB. ALL EXPOSED CONDUITS SHALL BE RIGID STEEL CONDUITS WITH THREADED TYPE FITTINGS. INSTALL ALL CONDUITS IN ACCORDANCE WITH ECEA STANDARDS OF INSTALLATION.
19. ELECTRICAL NON-METALLIC TUBING (ENT) AND MC CABLE ARE NOT PERMITTED TO BE USED FOR THIS PROJECT. NO EXCEPTIONS.
20. WHERE EXISTING CONDUITS, CONCEALED OR EXPOSED, AND (WIREFOLD) SURFACE RACEWAY IS NOT IN PLACE AS SHOWN ON PLANS, PROVIDE NEW CONDUITS AND (WIREFOLD) SURFACE RACEWAY FOR THE NEW WORK. VERIFY EXISTING CONDITION ON SITE AND PROVIDE ALL NECESSARY NEW MATERIAL, APPARATUS, AND WORK THAT ARE REQUIRED TO BE INCLUDED IN THE BID PACKAGE.
21. CONDUCTORS, #8 AND LARGER, SHALL BE STRANDED COPPER WITH THHN/THWN INSULATION, UNLESS OTHERWISE NOTED.
22. PROVIDE WORKING CLEARANCE PER CEC 110.26 FOR SERVICE PANEL, SUBPANELS, MOTOR DISCONNECT SWITCHES, CONTROL SECTIONS, HVAC EQUIPMENT, APPLIANCES, ETC.
23. PROVIDE A WARNING LABEL (SIGN) CLEARLY VISIBLE TO QUALIFIED PERSONS TO COMPLY WITH NEC AND CEC 116.1.6 OF POTENTIAL ELECTRIC ARC FLASH HAZARDS AT SWITCHBOARDS, PANELBOARDS, INDUSTRIAL CONTROL PONES AND MOTOR CONTROL CENTERS THAT ARE LIKELY TO REQUIRE EXAMINATION, ADJUSTMENT, SERVICING, OR MAINTENANCE WHILE ENERGIZED. SERVICE EQUIPMENT SHALL BE LEGIBLY MARKED WITH THE MAXIMUM AVAILABLE FAULT CURRENT PER CEC SECTION 110.24(A).
24. BUILDING SERVICE AND SUBPANELS TO COMPLY WITH CEC 110.9 AND 110.10 INTERRUPTING RATING AND BRACING. PROVIDE A.I.C. CALCULATIONS FOR SUBPANELS IF INTERRUPTING RATING IS LOWER THAN MAIN SERVICE RATING.
25. ALL APPLIANCES SHALL COMPLY WITH CEC ARTICLE 422. APPLIANCE CONTROL AND PROTECTION PER CEC 422-II; BRANCH CIRCUITS PER 422-II.
26. BUILDING EXPANSION JOINTS MAY OR MAY NOT BE INDICATED ON THE ELECTRICAL DRAWINGS. VERIFY THE LOCATIONS OF ALL APPLICABLE BUILDING EXPANSION JOINTS WITH THE ARCHITECTURAL DRAWINGS. WIRING METHODS ACROSS EXPANSIONS JOINTS SHALL INCLUDE USE OF FLEXIBLE FITTINGS OR OTHER DEVICES AS APPROPRIATE TO EACH APPLICATION. IN NO CASE SHALL CONDUIT CROSS SUCH A JOINT IN BUILDING CONSTRUCTION WITHOUT USE OF THE APPROPRIATE WIRING METHODS.
27. CONTRACTOR SHALL SIZE ALL THE INTERIOR AND EXTERIOR BUILDING PLUMB BOXES AND OUTLETS AND CONDUIT SIZES PER CEC 314.16 AND COMPLY WITH CEC 314.28 FOR INSTALLATION OF RACEWAYS AND WIRING AS REQUIRED BY CODE, UNLESS OTHERWISE NOTED.
28. WHERE ACCESSIBILITY IS NOT AVAILABLE TO ELECTRICAL OUTLETS, DEVICES AND/OR EQUIPMENT, COORDINATE WITH THE ARCHITECT FOR PROVISIONS TO PROVIDE ACCESSIBILITY TO THEM.
29. CONTRACTOR IS RESPONSIBLE FOR REVIEWING THE MECHANICAL DRAWINGS AND PROVIDES ALL CONDUIT AND CONTROL WIRING AND OTHER WIRING SHOWN ON THE MECHANICAL DRAWINGS THAT IS NOT SHOWN ON THE ELECTRICAL PLANS.
30. CONTRACTOR SHALL REFER TO THE MECHANICAL DRAWINGS AND COORDINATE FOR THE EQUIPMENT LOCATIONS. COORDINATE ROOF PENETRATION WITH THE MECHANICAL CONTRACTOR FOR MECHANICAL CONNECTIONS. ENTER ROOF MOUNTED UNITS THROUGH EQUIPMENT MOUNTING CURES WHERE POSSIBLE. VERIFY ON-SITE.
31. PROVIDE CONVENIENCE OUTLET WITHIN 25 FEET OF MECHANICAL EQUIPMENT PER U.M.C. WHERE LOCAL OUTLET OR CONVENIENCE OUTLET PROOF AND GFI CONVENIENCE OUTLET. SECURE ROOF MOUNTED OUTLET TO THE MECHANICAL EQUIPMENT. VERIFY LOCATION IN FIELD WITH THE MECHANICAL CONTRACTOR.
32. VERIFY SINGLE-POINT CONNECTIONS TO ROOF MOUNTED HVAC UNITS WITH MECHANICAL CONTRACTOR ON-SITE PRIOR TO ELECTRICAL ROUGH-IN. PROVIDE DUAL DISCONNECTS IF TWO-POINT CONNECTIONS IS REQUIRED, WHETHER SHOWN ON PLANS OR NOT.
33. SWITCH DEVICES CONTROLLING MECHANICAL EQUIPMENT SHALL BE SIZE AND TYPE REQUIRED AND SHALL BE SERVED WITH QUANTITY OF WIRES AS REQUIRED. REFER TO DIVISION 15 MECHANICAL PLANS AND SPECIFICATIONS.
34. COORDINATE THE HVAC EQUIPMENT FOR FUSES REQUIRE. WHERE FUSES ARE REQUIRED, VERIFY FUSE SIZE ON-SITE AND PROVIDE FOR HVAC EQUIPMENT PER UNIT NAMEPLATE SPECIFICATIONS.
35. MOTOR DISCONNECT SWITCHES SHALL COMPLY WITH CEC 430-IX AND 440.I.
36. MOTOR STARTERS FOR HVAC EQUIPMENT ARE PROVIDED BY MECHANICAL CONTRACTOR AND CONNECTED BY ELECTRICAL CONTRACTOR, UNLESS NOTED OTHERWISE.
37. ALL CONNECTIONS FROM THE DISCONNECT SWITCHES TO HVAC UNITS SHALL BE COPPER CONDUCTORS. MOTOR DISCONNECT SWITCHES SHALL COMPLY WITH CEC 430-VII, 430-VIII, AND 440-II.
38. VERIFY LOCATION AND HEIGHT OF ALL MECHANICAL OR FIXTURE EQUIPMENT OUTLETS WITH SUPPLIER PRIOR TO ANY ROUGH-IN WORK. PROVIDE ALL RUNS AND CONNECTIONS TO EQUIPMENT.
39. ALL TERMINATION PROVISIONS OF EQUIPMENT, INCLUDING CIRCUITS RATED 100 AMPERES OR LESS, SHALL BE RATED AT 60 DEGREE, CENTIGRADE PER CEC 110.14(c).
40. ALL LIGHT FIXTURES INSTALLED OVER FOOD HANDLING OR FOOD PREPARATION AREAS, OPEN FOOD STORAGE AND UTENSIL WASHING AREAS SHALL BE OF SHATTERPROOF CONSTRUCTION OR SHALL BE PROTECTED WITH SHATTERPROOF SHIELDS AND SHALL BE READILY CLEANABLE.

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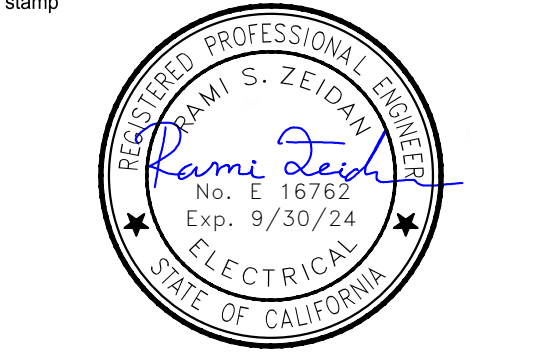


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consultant



project number CA5602

project director

project designer

project architect

[illegible]

**DSA SUBMITTAL**  
**4-25-2023**

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client / project

# OAK HILL ES HARDSHIP MODERNIZATION

**CJUSD**  
**3909 NORTH LOOP BLVD**  
**ANTELOPE, CA 95843**

sheet name

## TECHNOLOGY SYMBOL LEGEND

sheet number

# T0.2

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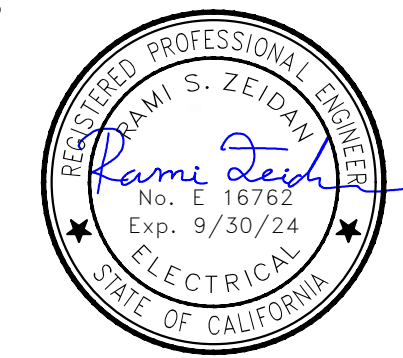


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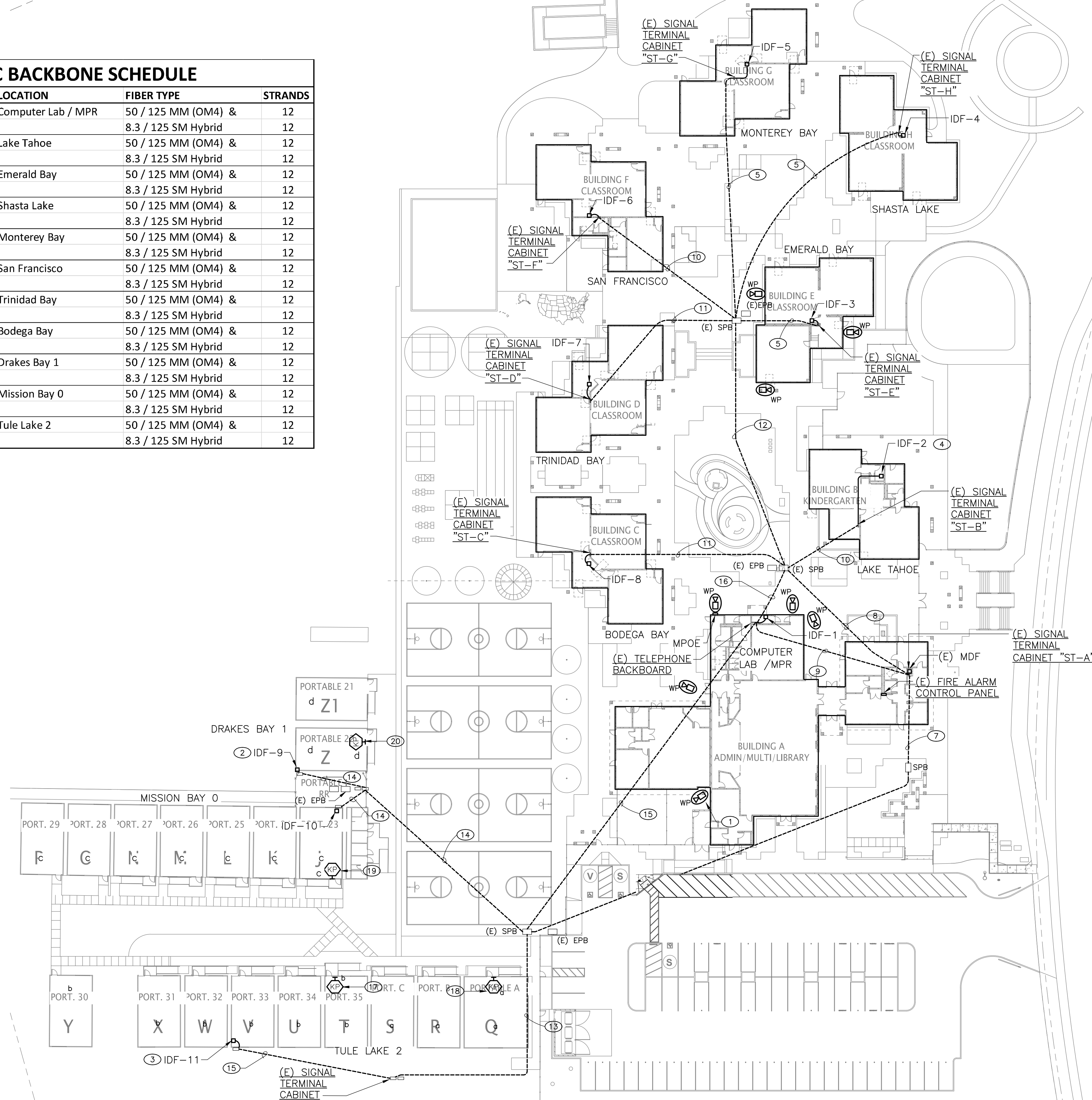


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FROM	LOCATION	TO	LOCATION	FIBER TYPE	STRANDS
MDF	Administration	IDF 1	Computer Lab / MPR	50 / 125 MM (OM4) & 8.3 / 125 SM Hybrid	12 12
MDF	Administration	IDF 2	Lake Tahoe	50 / 125 MM (OM4) & 8.3 / 125 SM Hybrid	12 12
MDF	Administration	IDF 3	Emerald Bay	50 / 125 MM (OM4) & 8.3 / 125 SM Hybrid	12 12
MDF	Administration	IDF 4	Shasta Lake	50 / 125 MM (OM4) & 8.3 / 125 SM Hybrid	12 12
MDF	Administration	IDF 5	Monterey Bay	50 / 125 MM (OM4) & 8.3 / 125 SM Hybrid	12 12
MDF	Administration	IDF 6	San Francisco	50 / 125 MM (OM4) & 8.3 / 125 SM Hybrid	12 12
MDF	Administration	IDF 7	Trinidad Bay	50 / 125 MM (OM4) & 8.3 / 125 SM Hybrid	12 12
MDF	Administration	IDF 8	Bodega Bay	50 / 125 MM (OM4) & 8.3 / 125 SM Hybrid	12 12
MDF	Administration	IDF 9	Drakes Bay 1	50 / 125 MM (OM4) & 8.3 / 125 SM Hybrid	12 12
MDF	Administration	IDF 10	Mission Bay 0	50 / 125 MM (OM4) & 8.3 / 125 SM Hybrid	12 12
MDF	Administration	IDF 11	Tule Lake 2	50 / 125 MM (OM4) & 8.3 / 125 SM Hybrid	12 12



④ DISCONNECT AND REMOVE EXISTING CAMERA ON

- (1) DISCONNECT AND REMOVE EXISTING CAMERA ON ANTENNA MAST AND REPLACE WITH NEW IP CAMERA.
- (2) INSTALL NEW WALL MOUNTED IDF CABINET AT CEILING. MOUNT TO NEW PLYWOOD BACKBOARD.
- (3) INSTALL NEW WALL MOUNTED IDF CABINET AT WHITE WOODEN BOX.
- (4) IDF-2 LOCATED IN STORAGE ROOM NEXT TO RESTROOM.
- (5) EXISTING (1) 2". REMOVE EXISTING FIBER OPTIC CABLES AND INSTALL NEW FIBER OPTIC CABLES. SEE FIBER OPTIC BACKBONE SCHEDULE THIS SHEET.  
EXISTING (1) 2".-1A,4B,1C,2D,4TV,4F
- (6) EXISTING (3) 2". REMOVE EXISTING FIBER OPTIC CABLES AND INSTALL NEW FIBER OPTIC CABLES FOR IDF-9, IDF-10, AND IDF-11. SEE FIBER OPTIC BACKBONE SCHEDULE THIS SHEET.  
EXISTING (2) 2".
- (7) EXISTING (3) 2". REMOVE EXISTING FIBER OPTIC CABLES AND INSTALL NEW FIBER OPTIC CABLES FOR IDF-9, IDF-10, AND IDF-11. SEE FIBER OPTIC BACKBONE SCHEDULE THIS SHEET.
- (8) EXISTING (7) 2". REMOVE EXISTING FIBER OPTIC CABLES AND INSTALL NEW FIBER OPTIC CABLES FOR IDF-9 THROUGH IDF-9. SEE FIBER OPTIC BACKBONE SCHEDULE THIS SHEET.  
EXISTING (1) 2".-1A,3B,1C,2D,3B,5F  
EXISTING (5) 2".-1A,4B,1C,2D,4B,4F  
EXISTING (1) 2".-1A,4B,1C,2D,4B,9FM
- (9) EXISTING (1) 2". REMOVE EXISTING FIBER OPTIC CABLES AND INSTALL NEW FIBER OPTIC CABLE FOR IDF-1. SEE FIBER OPTIC BACKBONE SCHEDULE THIS SHEET.
- (10) EXISTING (1) 2". REMOVE EXISTING FIBER OPTIC CABLES AND INSTALL NEW FIBER OPTIC CABLES. SEE FIBER OPTIC BACKBONE SCHEDULE THIS SHEET.  
EXISTING (1) 2".-1A,4B,1C,2D,3TV,5F
- (11) EXISTING (1) 1-1/2". REMOVE EXISTING FIBER OPTIC CABLES AND INSTALL NEW FIBER OPTIC CABLES. SEE FIBER OPTIC BACKBONE SCHEDULE THIS SHEET.  
EXISTING (1) 1-1/2".-1A,4B,1C,2D,4B,4F
- (12) EXISTING (5) 2". REMOVE EXISTING FIBER OPTIC CABLES AND INSTALL NEW FIBER OPTIC CABLES. SEE FIBER OPTIC BACKBONE SCHEDULE THIS SHEET.  
EXISTING (1) 2".-1A,3B,1C,2D,5TV,5F  
EXISTING (4) 2".-1A,4B,1C,2D,4TV,4F
- (13) EXISTING (2) 2". REMOVE EXISTING FIBER OPTIC CABLES AND INSTALL NEW FIBER OPTIC CABLES. SEE FIBER OPTIC BACKBONE SCHEDULE THIS SHEET.  
EXISTING (1) 2".-1A,4B,1C,2D,4TV,4F
- (14) REMOVE EXISTING FIBER OPTIC CABLES IN EXISTING CONDUIT RUNS AND REPLACE WITH NEW FIBER OPTIC CABLES FOR IDF-9 AND IDF-10.
- (15) EXISTING (3) 1".
- (16) EXISTING (2) 2".-10TV  
EXISTING (1) 2".
- (17) INSTALL ONE SECURITY KEY PAD ADJACENT TO DOOR INSIDE PORTABLE CLASSROOM FOR 6 PORTABLES.
- (18) INSTALL NEW KEY PAD FOR 3 PORTABLES.
- (19) INSTALL NEW KEY PAD FOR 7 PORTABLES.
- (20) INSTALL NEW KEY PAD FOR 2 PORTABLES.

EXISTING TECHNOLOGY CABLE SCHEDULE		
TYPE	CONDUCTOR	USE
A.	WEST PENN 289 1 PAIR #20 SHIELDED	INTERCOM
B.	WEST PENN 055 2 PAIR #22 (1 PAIR SHIELDED)	TELEPHONE SPEAKER
C.	5#14 (THHN)	INTRUSION ALARM
D.	WEST PENN #228 1 PAIR #18 2#14 (THHN)	CLOCK FIRE ALARM INITIATION
F.	EXECUTONE #W55 MICROPHONE CABLE	FIRE ALARM SIGNAL
G.	TV - RG/GA4 COAXIAL	TELEVISION FA DATA TEL TRUNK

## OAK HILL ES HARDSHIP MODERNIZATION

CJUSD  
3909 NORTH LOOP BLVD  
ANTELOPE, CA 95843

sheet name

## TECHNOLOGY SITE PLAN

sheet number

## T1.1

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## 1 TECHNOLOGY SITE PLAN

 $1^\circ = 30'$




1. ALL DEVICES SHOWN ON SHEET ARE NEW UNLESS OTHERWISE NOTED. MAKE FINAL CONNECTION AND OPERATIONAL.
2. DISCONNECT AND REMOVE ALL EXISTING INTRUSION ALARM DEVICES AND RETURN TO SCHOOL DISTRICT.
3. DISCONNECT AND REMOVE ALL EXISTING CLOCK AND SPEAKER AND RETURN TO SCHOOL DISTRICT.
4. (E) COMBINATION FIRE ALARM AND BURGLAR ALARM SYSTEM SHALL REMAIN IN OPERATION WHILE NEW FIRE ALARM PANEL AND BURGLAR ALARM PANEL ARE INSTALLED.
5. REMOVE ALL EXISTING CABLES FROM CONDUTITS NOT CONNECTED OR NOT USED FOR NEW LV SYSTEM.
6. (E) DIGITAL SIGN TO REMAIN IN OPERATION.
7. SEE ARCHITECTURAL DETAILS FOR MODIFICATION TO (E) MILLWORK CABINET FOR VENTILATION OF IDF EQUIPMENT. (E) DUPLEX RECEPTACLE IN CABINET SPACE TO REMAIN.
8. SEE FIRE ALARM DRAWINGS FOR ANY REFERENCE TO FIRE ALARM EQUIPMENT SHOWN ON THIS SHEET.
9. RE-USE EXISTING LOWER HALF OF IDF CABINET FOR LV SYSTEMS. EXISTING DUPLEX RECEPTACLES AND POWER CIRCUITS TO REMAIN.
10. FINAL LOCATION FOR NEW "FACP" AND "IACP" SHALL BE COORDINATED WITH SCHOOL DISTRICT PRIOR TO POUR-IN.

- ① DISCONNECT AND REMOVE (E) CLOCK AND REPLACE WITH (N) IP CLOCK, TYPICAL.
- ② DISCONNECT AND REMOVE (E) SECURITY CAMERA, REPLACE WITH NEW IP SECURITY CAMERA, TYPICAL.
- ③ DISCONNECT AND REMOVE (E) CLOCK/SPEAKER, REPLACE WITH NEW IP CLOCK AND SPEAKER, TYPICAL.
- ④ INSTALL POWER CONNECTION BACK TO ODU-A1.
- ⑤ HOMERUN TO IDU-A1 FOR CONTROLS.
- ⑥ COORDINATE NEW CABINET LOCATION WITH (E) CONDUIT STUDS AT CEILING, (E) RECEPTACLE AT BACK WALL TO REMAIN, SHIFT (E) IT EQUIPMENT RACK TO CLEAR (N) IT EQUIPMENT CABINET.
- ⑦ INSTALL (E) IT EQUIPMENT IN NEW CABINET FOR SECURITY.
- ⑧ DISCONNECT AND REMOVE (E) LIGHT FIXTURE.
- ⑨ DISCONNECT AND REMOVE (E) CLOCK/SPEAKER. MAKE WALL SPACE FOR NEW "TACP".
- ⑩ NEW LOCATION FOR NEW CLOCK/SPEAKER.



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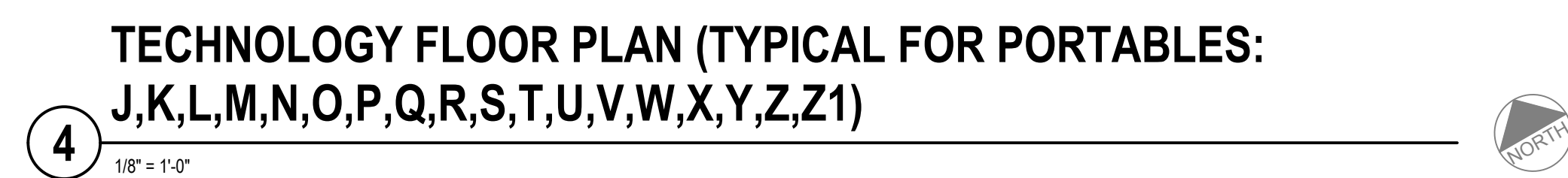
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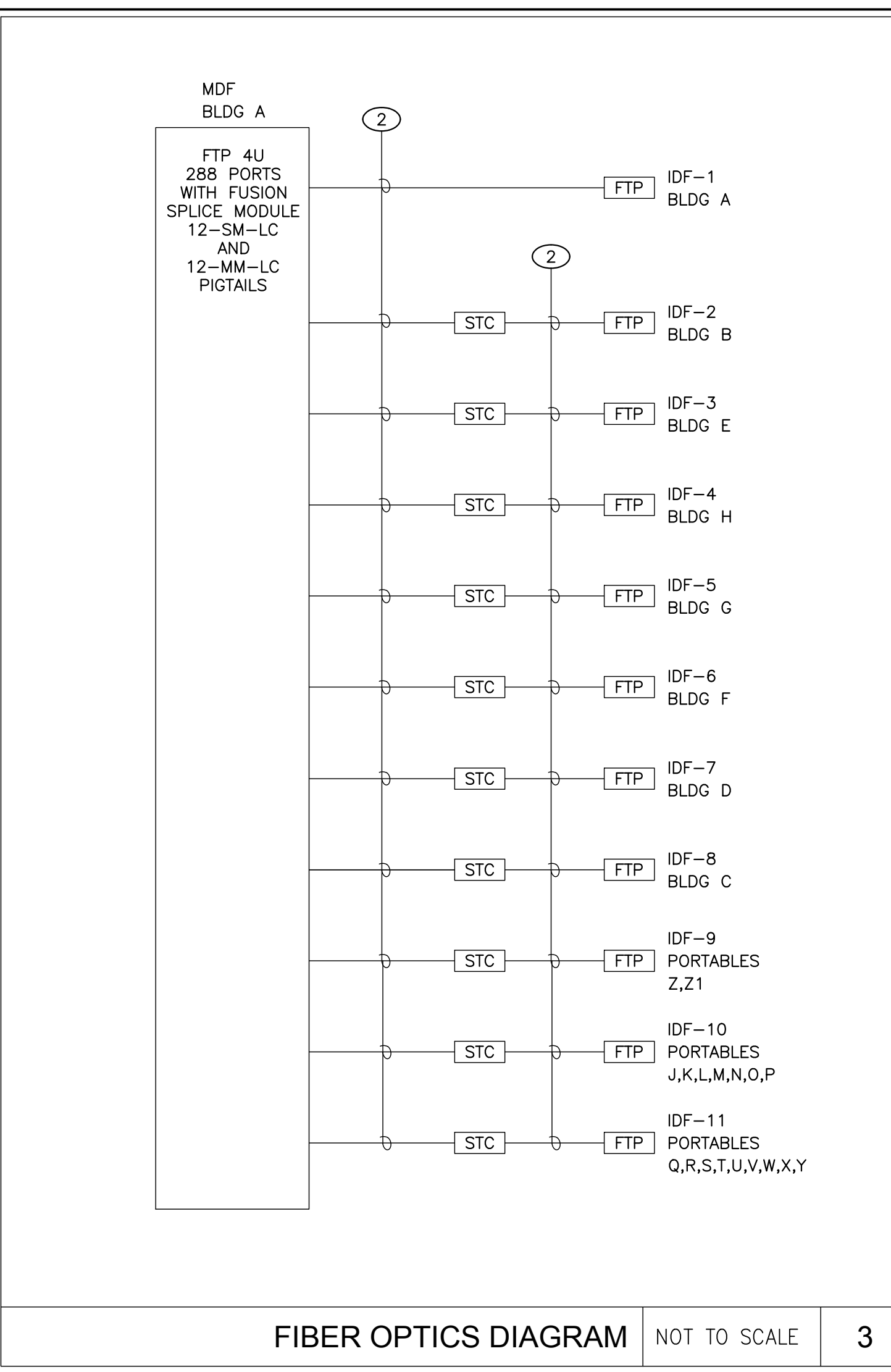
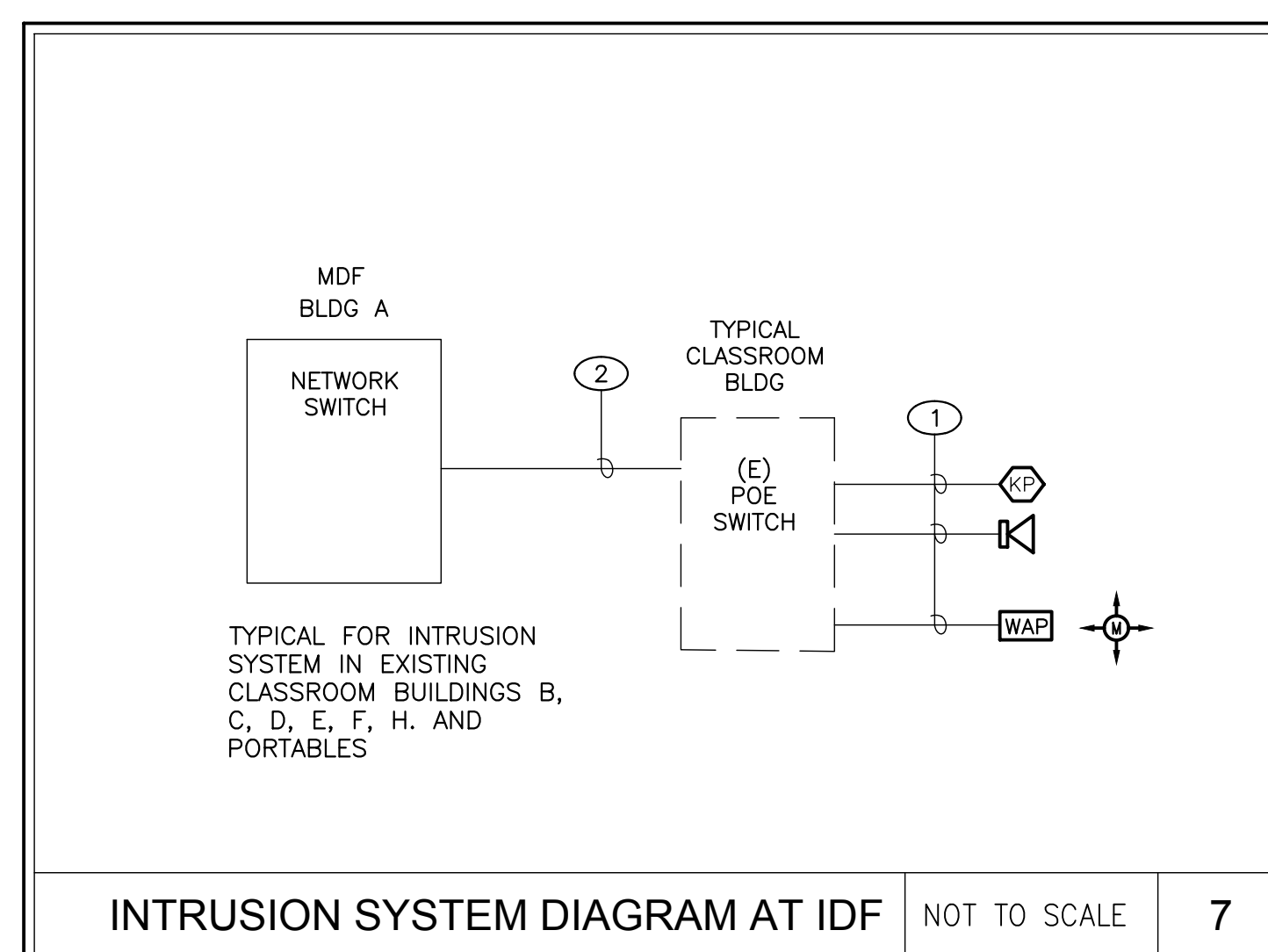
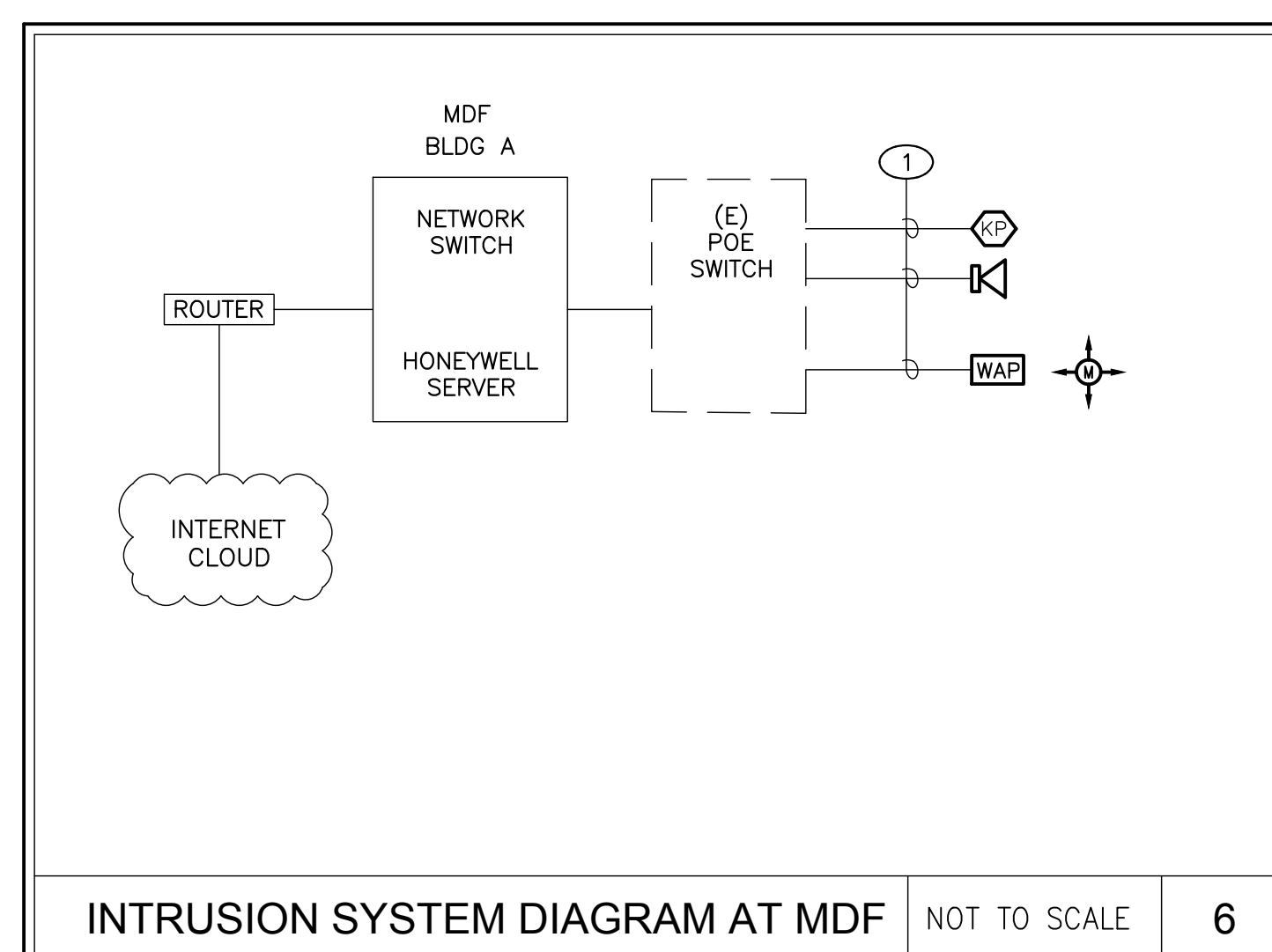
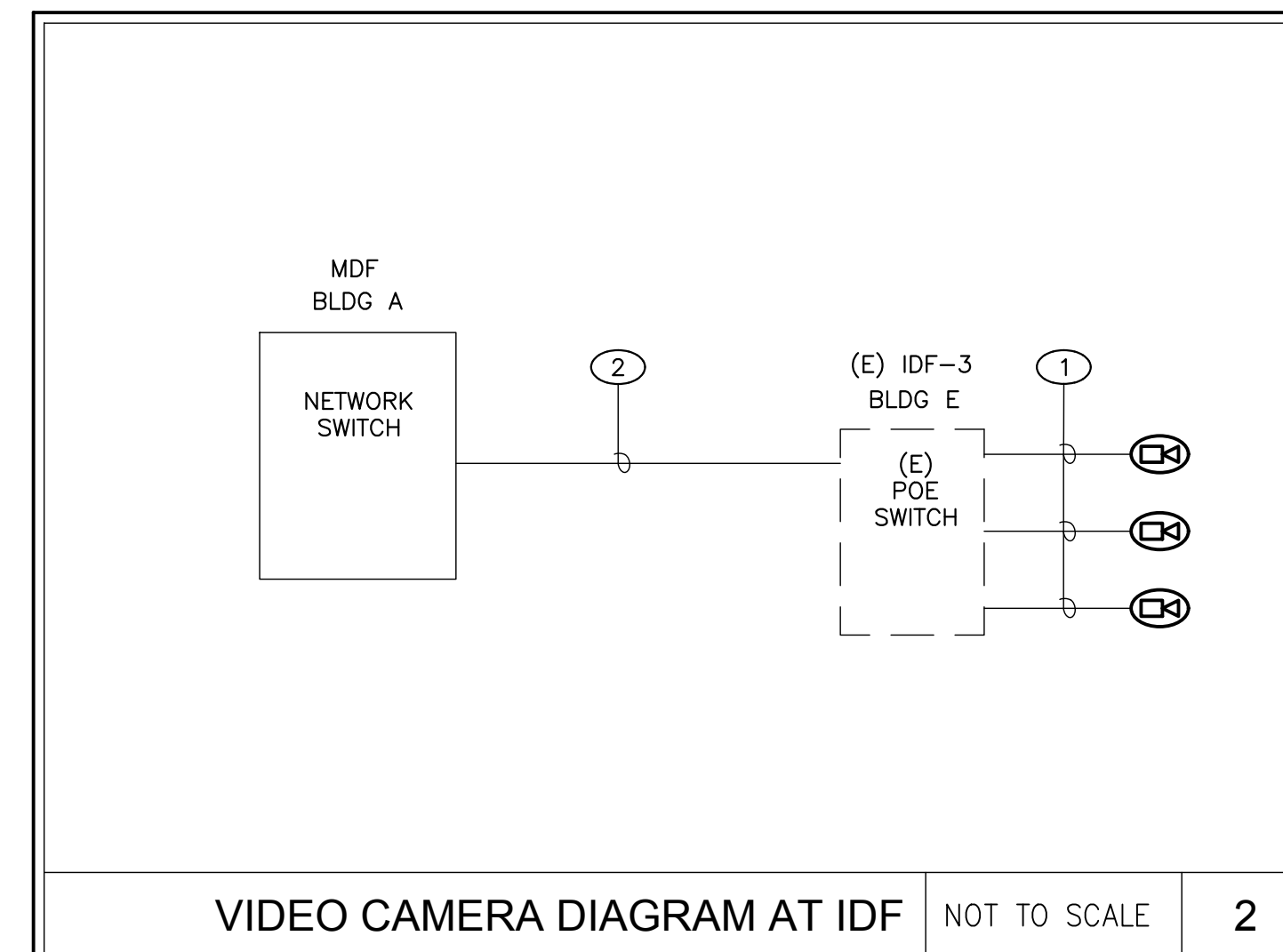
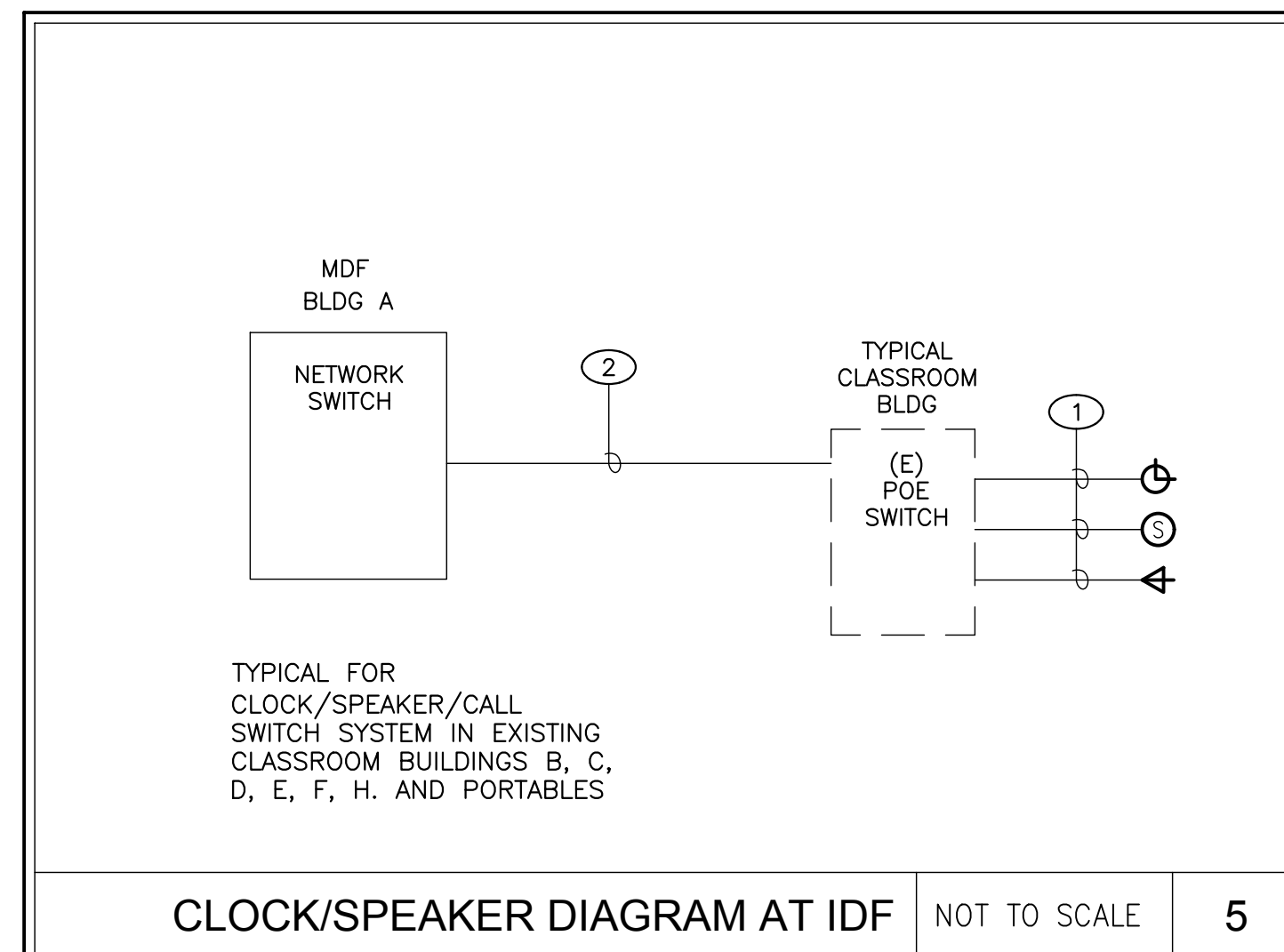
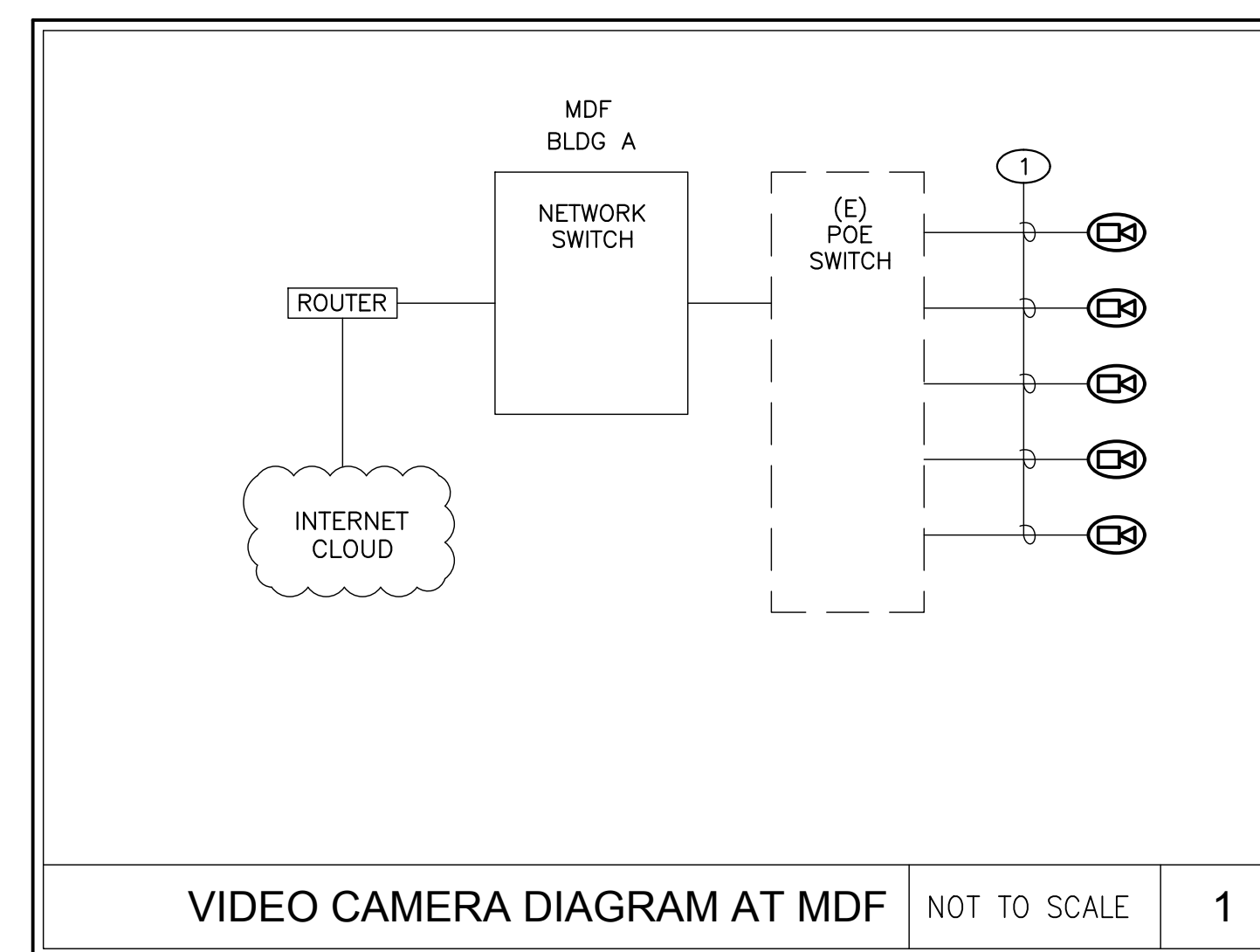
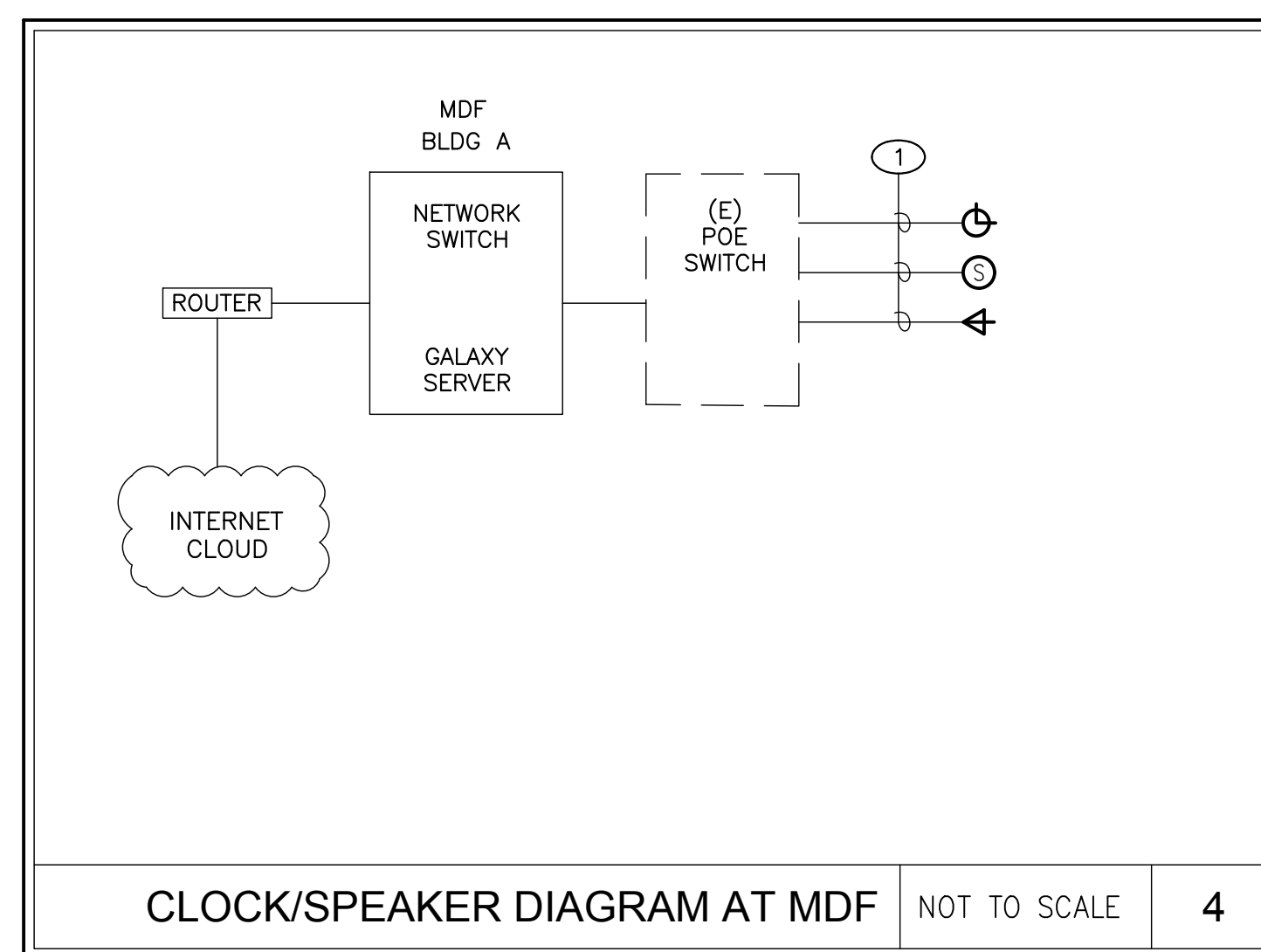
- ① EXISTING IDF IN THE BOTTOM OF THE CABINET TO REMAIN.
- ② INSTALL IDF IN OUTSIDE STORAGE ROOM, NEXT TO RESTROOMS.





- ## KEY NOTES
- 
- ① EXISTING IDF IN THE BOTTOM OF THE CABINET TO REMAIN.





## DIGITAL VIDEO SURVEILLANCE SYSTEM (CCTV) NOTES

1. COORDINATE FINAL PLACEMENT OF CAMERAS WITH DISTRICT PROJECT MANAGER PRIOR TO INSTALLATION.
2. COORDINATE FINAL ALIGNMENT OF CAMERAS WITH DISTRICT PROJECT MANAGER PRIOR TO ACCEPTANCE.
3. INTEGRATE INTO EXISTING STORAGE AND MANAGEMENT SYSTEM. VERIFY COMPATIBILITY OF ALL COMPONENTS WITH THE EXISTING SYSTEM.
4. DRAWINGS MUST HAVE A CAMERA SCHEDULE THAT INDICATES THE FOLLOWING:  
CAMERA ADDRESS, MODEL NUMBER, PART NUMBER, MOUNTING TYPE, REQUIRED ACCESSORIES, POWER REQUIREMENTS, LICENSING AND SOFTWARE OPTIONS.

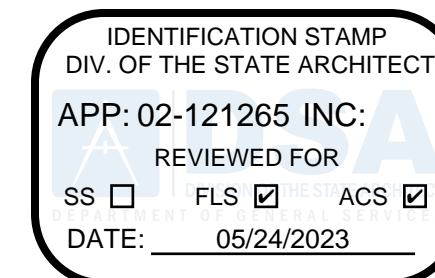
## STRUCTURED CABLING SYSTEM NOTES

1. DATA OUTLETS AND VOIP PHONES MAY USE THE SAME DATA CABLE. RE-USE EXISTING CABLING WHENEVER POSSIBLE.
2. CABLE TRAYS ARE NOT ALLOWED EXCEPT IN OPEN OR ACCESSIBLE, NON-PLENUM CEILING SPACES FOR AREAS OF HIGH CABLE DENSITY.
3. PROVIDE "J" HOOKS IN ACCESSIBLE CEILING INTERIOR PATHWAYS.
4. ALL MDF/IDF LOCATIONS SHALL INCLUDE AN AS-BUILT DRAWING FOR THE AREA IT SERVES PRINTED OUT ON AN 11"x17" LAMINATED PAPER, DRAWING TO INCLUDE ALL STATION LOCATIONS AND PATHWAYS. AS-BUILTS TO ALSO BE PROVIDED ELECTRONICALLY IN A FORMAT ACCEPTABLE TO THE DISTRICT.
5. FULL TEST REPORTS SHALL BE SUBMITTED TO THE DISTRICT FOR ALL NEWLY INSTALLED, OR REPAIRED DATA CABLES PRIOR TO SIGN OFF, MANUFACTURER CERTIFICATION AND WARRANTY ACCEPTANCE REQUIRED.

## KEY NOTES

1. CONNECT WITH CAT6 CABLE.
2. CONNECT WITH 12 STRAND 50/125 MM OM4 AND 12 STRAND 8.3/125 SM HYBRID FIBER OPTIC CABLE.

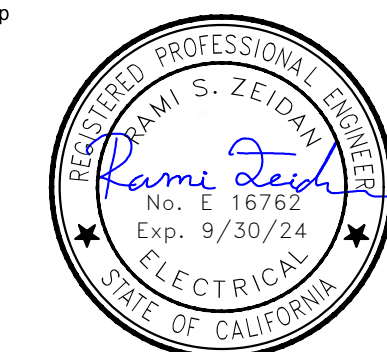
VIDEO CAMERA ABBREV.	
FAP	= FIBER ADAPTER PANEL
FSM	= FUSION SPLICE MODULE
STC	= EXISTING TERMINAL CABINE
FTP	= FIBER TERMINAL PANEL
NVR	= NETWORK VIDEO RECORDER
MON	= MONITOR



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**Project Number:**

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project architect

revisions

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project status

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## OAK HILL ES HARDSHIP MODERNIZATION

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## TECHNOLOGY DIAGRAMS

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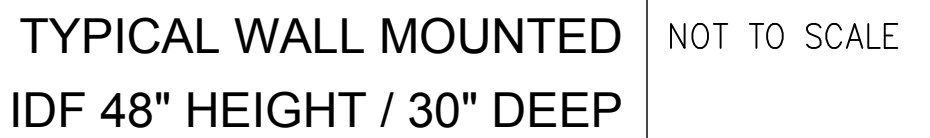
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EXISTING ELECTRICAL SERVICE LOAD CALCULATION				
EXISTING MAXIMUM PEAK DEMAND LOAD				
(SOURCE: SMUD PREVIOUS 12 MONTHS DATA)				540.0 KVA
PLUS 25% OF EXISTING CONNECTED LOAD				135.0 KVA
TOTAL EXISTING CONNECTED LOAD			=	675.0 KVA
REMOVED EXISTING LOAD				
-				0.0 KVA
-				0.00 KVA
TOTAL LOAD REMOVED			=	0.0 KVA
TOTAL EXISTING LOAD MINUS REMOVED LOAD				
			=	675.0 KVA
ADD NEW LOAD				
IDU-A1				1.6 KVA
RECEPTACLE				0.4 KVA
25% OF LARGEST NEW MOTOR= 1.6 KVA @ 25% = 0.4 KVA				
TOTAL ADDED LOAD = 2.4 KVA				
EXISTING AND ADDED TOTAL SERVICE LOAD				
677.4 KVA @ 120/208 VOLT , 3	PHASE	=	1882 AMPERES	677.4 kva
THEREFORE: EXISTING MAIN 3000 AMP SERVICE HAS THE CAPACITY FOR THE NEW ADDED LOAD.				





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no. date revision  
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FIRE ALARM  
NOTES,  
LEGENDS, &  
SPECIFICATIONS

sheet number

FA0.1

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FIRE ALARM DEVICE LEGEND

SYMBOL	QTY	MANUFACTURER	PART NO	DESCRIPTION	CSFM
[E20]	1	SILENT KNIGHT	5820XL-EVS (SK)	FIRE ALARM CONTROL PANEL, ADDRESSABLE W/ EMERGENCY VOICE SYSTEM SK-PROTOCOL	7165-0559-0172
	3	SILENT KNIGHT	5815XL SK-PROTOCOL	SIGNALING LINE CIRCUIT EXPANDER, 198 PTS (SK)	7165-0559-0172
	1	SILENT KNIGHT	5820XL-EVS MAIN BOARD	FIRE ALARM CONTROL PANEL MAIN BOARD SK-PROTOCOL	7165-0559-0500
	1	SILENT KNIGHT	EVS-50W MAIN BOARD	PANEL COMPONENT, INTELLIGENT 50 WATT AMPLIFIER	7165-0559-0500
[NAC]	2	SILENT KNIGHT	SK-PS10	100A 120VAC REMOTE CHARGER POWER SUPPLY IN A LOCKABLE METAL ENCLOSURE	7315-0559-0522
[FAA]	2	SILENT KNIGHT	SK-PS10 MAIN BOARD	FIRE ALARM POWER SUPPLY MAIN BOARD	7315-0559-0522
[F]	1	SILENT KNIGHT	SK-5235	REMOTE ANNUNCIATOR ADDRESSABLE MANUAL PULL STATION	7165-0559-0137
[M]	3	SILENT KNIGHT	SK-MONITOR	ADDRESSABLE ACTION MODULE	7300-0559-0155
[H]	18	SILENT KNIGHT	SK-HEAT	ADDRESSABLE HEAT DETECTOR, FIXED TEMP	7270-0559-0147
[H] 190°F	150	SILENT KNIGHT	SK-HEAT-HT-W	ADDRESSABLE HEAT DETECTOR, FIXED TEMP ADDRESSABLE	7270-0559-0511
[S]	277	SILENT KNIGHT	SK-PHOTO	PHOTOELECTRIC SMOKE DETECTOR	7272-0559-0149
[S] 24	63	EATON WHELOCK	ET90-24MCC-FW	SPEAKER STROBE, 24 VDC MULTI-CANDELA, 2500 RMS WHITE	7125-0785-0152
[S] 24	17	EATON WHELOCK	ELSTW	WALL STROBE, WHITE, FIRE	7135-0785-0504
[S] WP	43	EATON WHELOCK	ET-1010-R WNW88-R	SPEAKER 25 OHM 70.7 VRMS, 18 TO 8 WATTS W/BACKBOX WP	7320-0785-0105

GOVERNING CODES & APPLICABLE STANDARDS

TITLE 24 CODES:

- 2022 CALIFORNIA BUILDING STANDARD ADMINISTRATIVE CODE (CAC), (PART 1, TITLE 24, CCR).
- 2022 CALIFORNIA BUILDING CODE (CBC), VOLUMES 1 AND 2 (PART 2, TITLE 24, CCR), (2021 EDITION INTERNATIONAL BUILDING CODE WITH CALIFORNIA AMENDMENTS).
- 2022 CALIFORNIA ELECTRICAL CODE, (PART 3, TITLE 24, CCR), (2020 EDITION NATIONAL ELECTRICAL CODE WITH CALIFORNIA AMENDMENTS).
- 2022 CALIFORNIA MECHANICAL CODE (CMC), (PART 4, TITLE 24, CCR), (2021 EDITION IAPMO UNIFORM MECHANICAL CODE).
- 2022 CALIFORNIA PLUMBING CODE (CPC), (PART 5, TITLE 24, CCR), (2021 EDITION IAPMO UNIFORM PLUMBING CODE WITH CALIFORNIA AMENDMENTS).
- 2022 CALIFORNIA ENERGY CODE, (PART 6, TITLE 24, CCR), (2022 EDITION CALIFORNIA ENERGY COMMISSION BUILDING ENERGY EFFICIENCY STANDARDS).
- 2022 CALIFORNIA FIRE CODE (CFC), (PART 9, TITLE 24, CCR) (2021 EDITION INTERNATIONAL FIRE CODE WITH CALIFORNIA AMENDMENTS).
- 2022 CALIFORNIA REFERENCE CODE, (PART 12, TITLE 24, CCR).

REFERENCE CODE SECTIONS FOR APPLICABLE STANDARDS:

- 2022 CBC, CHAPTER 35.
- 2022 CFC, CHAPTER 80.
- 2022 NFPA 72, AS AMENDED.

SCOPE OF WORK AND BUILDING INFORMATION

- REPLACE AND UPGRADE NEW FIRE ALARM AUTOMATIC SYSTEM TO ENTIRE CAMPUS.

IN AREAS WHERE THE NEW INSTALLATION OF FIRE ALARM DEVICES, INFRASTRUCTURE (INCLUDING PATHWAY, DEVICE BOXES, ETC.) PROVIDE ALL NEW CABLING. CABLING SHALL BE INSTALLED TO MATCH EXISTING CONSTRUCTION IN CONDUIT, SURFACE RACEWAY, OR EXPOSED IN ACCESSIBLE CEILING SPACE.

OCCUPANCY CLASSIFICATION: B, E, A-3

TYPE OF CONSTRUCTION: V-B

NUMBER OF STORIES: 1 STORY

SPRINKLER PROTECTION: NO

ALTERNATIVE PROTECTION: NOT APPLICABLE

TYPE OF SYSTEM: MANUAL, AUTOMATIC FIRE ALARM SYSTEM

FIRE ALARM CABLE SCHEDULE

TYPE	DESCRIPTION	JACKET COLOR	SERVES	ENVIRONMENT USE	NOTES
A	2#16 UTP FPLR, SOLID	RED/BLK	SLC INTELLIGENT LOOP	INTERIOR	
B	2#14 UTP FPLR, SOLID	RED/BLK	NAC STROBE (VISUAL)	INTERIOR	
C	2#16 STP FPLR, SOLID	RED/BLK	VOICE (SPEAKER)	INTERIOR	
D	2#16 UTP FPLR, SOLID	RED/BLK	IDC CIRCUIT	INTERIOR	
E	2#16 UTP FPLR, SOLID	RED/BLK	FAA RS485 COMM	INTERIOR	
P	2#14 UTP FPLR, SOLID	RED/BLK	24VDC POWER	INTERIOR	
R	2#16 UTP FPLR, SOLID	RED/BLK	SPEAKER RISER	INTERIOR	
AU	2#16 UTP WP#AQ225	RED/BLK	SLC ADDRESS LOOP	EXTERIOR/UDGND	DIRECT BURIAL CABLE
BU	2#14 UTP WP#AQ226	RED/BLK	NAC STROBE (VISUAL)	EXTERIOR/UDGND	DIRECT BURIAL CABLE
CU	2#16 STP WP#AQ294	RED/BLK	NAC VOICE (SPEAKER)	EXTERIOR/UDGND	DIRECT BURIAL CABLE
DU	2#16 STP WP#AQ225	RED/BLK	IDC CIRCUIT	EXTERIOR/UDGND	DIRECT BURIAL CABLE
EU	2#16 UTP WP#AQ225	RED/BLK	FAA RS485 COMM	EXTERIOR/UDGND	DIRECT BURIAL CABLE
PU	2#14 UTP WP#AQ226	RED/BLK	24VDC POWER	EXTERIOR/UDGND	DIRECT BURIAL CABLE
RU	2#16 UTP WP#AQ225	RED/BLK	SPEAKER RISER	EXTERIOR/UDGND	DIRECT BURIAL CABLE

NOTES:

- ALL CONDUCTORS SHALL BE COPPER AND SOLID - STRANDED CONDUCTOR IS NOT ACCEPTABLE
- MINIMUM CONDUIT SIZE IS 3/4" - CONCEALED IN CEILING SPACE OR APPROPRIATE WALLS.
- ALL SURFACE ROUTED RACEWAYS SHALL BE WIREMOLD OR APPROVED EQUAL.

CABLE ABBREVIATIONS:

STP	SHIELDED TWISTED PAIR	PA	PUBLIC ADDRESS
SLC	SIGNAL LINE CIRCUIT	UTP	UNSHIELDED TWISTED PAIR
NAC	NOTIFICATION APPLIANCE CIRCUIT	WP	WEST PENN (CABLE MANUFACTURER)
IDC	INITIATE DEVICE CIRCUIT		

FIRE ALARM ABBREVIATIONS/SYMBOLS

SYMBOL	DESCRIPTIONS	SYMBOL	DESCRIPTIONS
AFF	ABOVE FINISHED FLOOR	J-B	JUNCTION BOX
A	ABOVE FINISHED CEILING	M	MOUNTED
ANN	ANNUNCIATOR	(N)	NEW
C	EXISTING TO REMAIN	N.I.E.S.	NOT IN ELECTRICAL SCOPE OR SPECIFICATIONS
(E)	EMERGENCY	P/V	POST INDICATE VALVE
EM		TYP	TYPICAL
FACP	FIRE ALARM CONTROL PANEL	UNO	UNLESS NOTED OTHERWISE
FAPS	REMOTE FIRE ALARM POWER SUPPLY	VT	VALVE, TAMPER
FSD	FIRE SMOKE DAMPER	W	WATTAGE
FS	FLOW SWITCH	WP	WEATHERPROOF

FIRE ALARM GENERAL NOTES

- THE INTENT OF THESE DRAWINGS AND/OR SPECIFICATIONS DESCRIBE A COMPLETE, FUNCTIONING FIRE ALARM SYSTEM (INCLUDING VOICE EVACUATION PER SB875) WITH DEVICES, WIRING AND FIRE ALARM CONTROL PANEL TO MEET THE REQUIREMENTS OF NFPA 72 AND 2022 CALIFORNIA FIRE CODE AND APPLICABLE LOCAL FIRE MARSHALL REGULATIONS AND REQUIREMENTS.
- LOCATIONS OF EXISTING EQUIPMENT AND DEVICES SHOWN ON THESE PLANS ARE BASED ON AVAILABLE AS-BUILT PLANS AND LIMITED SITE SURVEYS. CONTRACTOR SHALL THOROUGHLY INSPECT THE EXISTING SYSTEM AND SITE CONDITIONS BEFORE BID. ADVISE THE SCHOOL'S REPRESENTATIVE OF ALL CONDITIONS REQUIRING IMMEDIATE ATTENTION OR MIGHT CAUSE DIFFICULTIES THAT ARE NOT ADDRESSED, OR INFERRED TO, IN THE CONTRACT DRAWINGS AND SPECIFICATIONS PRIOR TO NEW CONSTRUCTION AND THE COMMENCEMENT OF THE GUARANTEE PERIOD.
- CONTRACTOR SHALL SUBMIT ANY ALTERATIONS OF THE APPROVED CONSTRUCTION DOCUMENTS TO THE SPECIAL INSPECTOR AND DSA FOR NEW APPROVALS. START INSTALLATION OF THE SYSTEM AFTER DETAILED PLANS, SPECIFICATIONS, NEW SHOP DRAWINGS AND SUBMITTALS HAS BEEN APPROVED BY DSA. CONTRACTOR SHALL BE TOTALLY RESPONSIBLE FOR ANY DELAY.
- FIRE WATCH IN CONFORMANCE WITH THE 2022 CALIFORNIA FIRE CODE SHALL BE PROVIDED AT THE DIRECTION OF THE CONTRACTOR FOR EVERY OFF-LINE BUILDING. THE SCHOOL SHALL ASSIST WITH FIRE WATCH ACTIVITIES DURING SCHOOL HOURS AND WHENEVER THE CAMPUS IS OCCUPIED BY STUDENTS, TEACHERS AND STAFF. THE CONTRACTOR SHALL PROVIDE ALL FIRE WATCH ACTIVITIES AFTER SCHOOL HOURS AND WHENEVER THE CAMPUS IS NOT OCCUPIED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MONITORING AND MAINTAINING ALL FIRE WATCH LOGS.
- REQUEST FOR ADDITIONAL COSTS ASSOCIATED WITH RE-USE OF ANY EXISTING SYSTEM COMPONENT, INCLUDING CONDUITS, BOXES, CONTROL PANELS, ETC. WILL NOT BE CONSIDERED.
- NO KNOWN EXISTING CEILING OR ATTIC SPACE IN ROOMS OR AREA WITH HARD CEILING. IF CEILING OR ATTIC SPACE OCCUR DURING FIELD CONSTRUCTION THAT REQUIRE ADDING DETECTORS ABOVE THE CEILING OR ATTIC SPACE, PROVIDE A CONSTRUCTION CHANGE DOCUMENT, OR A SEPARATE SHEET OF PLANS SHALL BE SUBMITTED TO AND APPROVED BY DSA BEFORE PROCEEDING WITH THE WORK.
- THE FIRE ALARM SYSTEM SHALL CONFORM TO THE 2022 CALIFORNIA FIRE CODE, ARTICLE 907, CBC 305 AND 2022 CALIFORNIA ELECTRICAL CODE, ARTICLE 760.
- FIRE ALARM SYSTEM SHALL TRANSMIT ALARM, SUPERVISORY AND TROUBLE SIGNAL TO AN APPROVED SUPERVISING STATION IN ACCORDANCE WITH 2022 NFPA 72 AND CBC 907.6.6.
- CONTRACTOR SHALL PROVIDE A COMPLETE AND FUNCTIONAL CODE COMPLIANT SYSTEM WITH ALL REQUIRED HARDWARE, DEVICES, PROGRAMMING AND POINT/DEVICE DESCRIPTION SCHEDULES.
- THE INSTALLING CONTRACTOR SHALL PROVIDE SYSTEM PROGRAMMING FOR SUPERVISORY MONITORING PER CBC 901.6.3.
- OWNER SHALL BE RESPONSIBLE FOR ESTABLISHING A FIRE SYSTEM MONITORING CONTRACT OR PROVISIONS.
- PROVIDE FIRE ALARM SYSTEM SHALL NOT BE STARTED UNTIL DETAILED SPECIFICATIONS, INCLUDING CALIFORNIA STATE FIRE MARSHAL LISTING NUMBERS FOR EACH COMPONENT OF THE SYSTEM HAVE BEEN APPROVED BY THE CALIFORNIA STATE FIRE MARSHAL AND THE LOCAL FIRE MARSHAL.
- UPON COMPLETION OF THE INSTALLATION OF THE FIRE ALARM SYSTEM, A SATISFACTORY TEST OF THE ENTIRE SYSTEM SHALL BE MADE IN THE PRESENCE OF THE ENFORCING AGENCY AND SPECIAL INSPECTOR. THE SCHOOL SHALL NOT BE IN OPERATION UNTIL THE IOR AND THE LOCAL FIRE MARSHAL HAS VERIFIED AND/OR SIGNED OFF ON OPERATIONAL CAPACITY OF THE FIRE ALARM SYSTEM.
- ARCHITECT/ENGINEER AND OWNER SHALL BE NOTIFIED A MINIMUM OF 48 HOURS PRIOR TO THE FINAL INSPECTION AND /OR TESTING.
- CONTRACTOR SHALL SUBMIT THE SPECIAL INSPECTOR NFPA CERTIFICATE OF COMPLIANCE FORM TO THE SCHOOL REPRESENTATIVE FOR SUBMISSION TO THE FIRE DEPARTMENT.
- BEFORE REQUESTING FINAL APPROVAL OF THE INSTALLATION, THE SYSTEM INSTALLING CONTRACTOR SHALL FURNISH A WRITTEN STATEMENT TO THE INSPECTOR OF RECORD TO THE EFFECT THAT THE SYSTEM HAS BEEN INSTALLED AND COMPLETELY TESTED IN ACCORDANCE WITH 2022 NFPA 72, SECTION 7.5.2 AND 7.6.
- CONTRACTOR SHALL PROVIDE INTELLIGIBILITY TESTING USING INTELLIGIBILITY METERS APPROVED FOR SUCH USE. REFERENCE NFPA 72 CHAPTER 24. AN STI SCORE OF 7.0 IS A MINIMUM REQUIREMENT. CONTRACTOR SHALL IDENTIFY ALL ACOUSTICALLY DISTINGUISHABLE SPACES (ADS) ON CONTRACTOR SHOP DRAWINGS.
- THE CONTRACTOR SHALL ADJUST/INSTALL ALL DEVICES TO MAXIMIZE PERFORMANCE AND TO MINIMIZE FALSE ALARMS.
- PROVIDE FIRE ALARM AUDIBLE SOUND LEVEL AT LEAST 15 DBA ABOVE THE AVERAGE AMBIENT SOUND LEVEL IN ALL OCCUPIED AREA, BUT NOT LESS THAN 75 DBA AT 10 FEET OR MORE THAN 120 DBA IN TOTAL, THROUGHOUT. SYNCHRONIZED TEMPORAL CODE 3 SOUND. (2022 NFPA 72, 18.4.2.1)
- WALL MOUNTED VISIBLE NOTIFICATION DEVICES SHALL HAVE THEIR BOTTOMS MOUNTED AT 80" MINIMUM AND 96" MAXIMUM FROM FINISHED FLOOR.
- WALL MOUNTED AUDIBLE NOTIFICATION DEVICES SHALL HAVE THEIR TOPS MOUNTED AT 90" MINIMUM FROM FINISHED FLOOR AND NO CLOSER THEN 6" TO A HORIZONTAL STRUCTURE.
- A FLASHING VISUAL WARNING DEVICE HAVING A FREQUENCY OF NOT MORE THAN 60 FLASHES PER MINUTE [TWO (2) FLASHES OR LESS THAN ONE (1) FLASH PER SECOND] SHALL BE INSTALLED TO WARN THE HEARING-IMPAIRED AS SHOWN ON THE DRAWINGS. FLASHING VISUAL WARNING DEVICES VIEWABLE WITHIN THE SAME INTERIOR SPACE SHALL BE SYNCHRONIZED. (2022 NFPA 72, 18.5.3.1, 18.5.3.6 AND 18.5.5.7)
- SMOKE DETECTORS SHALL NOT BE ANY CLOSER THAN 1" FROM FIRE SPRINKLERS OR 3' FROM ANY SUPPLY DIFFUSER. IN AREA OF CONSTRUCTION OR POSSIBLE DAMAGE/CONTAMINATION ON NEWLY INSTALLED FIRE ALARM DEVICES SHALL BE COVERED UNTIL THAT AREA IS READY TO BE TURNED OVER TO THE OWNER.
- LOCATE SMOKE AND HEAT DETECTORS AT LEAST ONE FOOT AWAY FROM FLUORESCENT LIGHT FIXTURES.
- CONTRACTOR SHALL AFFIX TO EACH FIELD DEVICE A DEVICE LABEL. DEVICE LABEL SHALL BE ARRANGED FOLLOWING DETAIL "FIRE ALARM CIRCUIT IDENTIFIERS". INITIATION DEVICES CONNECTED TO EQUIPMENT BY OTHERS SHALL HAVE A LABEL AFFIXED TO MODULE INDICATING THE EQUIPMENT CONNECTED.
- ALL PENETRATIONS THROUGH RATED ASSEMBLIES REQUIRING OPENING PROTECTION SHALL BE PROVIDED WITH A PENETRATION FIRE STOP SYSTEM AS IDENTIFIED IN CBC CHAPTER 7, UL OR OTHER APPROVED LAB TESTING CRITERIA. APPROVED TYPES OF MATERIALS SHALL BE IDENTIFIED WITHIN THE PROJECT SPECIFICATIONS WITHIN THE FIRE ALARM SECTION.
- UNDERGROUND AND EXTERIOR CONDUITS TO HAVE WATER TIGHT FITTINGS AND WIRE TO BE APPROVED FOR WET LOCATIONS.
- PER CEC STANDARDS, ALL WIRING IS TO BE PULLED THROUGH EACH JUNCTION BOX AND CONNECTED DIRECTLY TO EACH FIRE DEVICE. DO NOT SPLICE THE WIRE. ALL BOXES TO BE SIZED PER CEC.
- ALL FIRE ALARM CIRCUITS SHALL BE IN CONDUIT OR RACEWAY WHEN PASSING THROUGH A FLOOR OR WALL TO A HEIGHT OF 7 FEET ABOVE THE FLOOR. FIRE ALARM WIRING ABOVE CEILING SHALL BE SUPPORTED BY THE BUILDING STRUCTURE SO AS NOT TO DAMAGE THE CABLE.
- NO SPLICES SHALL BE ALLOWED FOR FIRE ALARM SYSTEM UNDERGROUND CABLES.
- NEW FIRE ALARM WIRING SHALL NOT BE INSTALLED IN ANY RACEWAY WITH WIRING IN EXCESS OF 24 VOLT.
- FIRE ALARM PANEL, REMOTES, AND COMPONENTS SHALL BE SECURED TO MOUNTING SURFACES PER MANUFACTURERS SPECIFICATIONS. NO SINGLE DEVICE SHALL EXCEED 20 LBS. WITHOUT SPECIAL MOUNTING DETAILS.
- ALL FIRE ALARM EQUIPMENT BRANCH CIRCUITS SHALL BE DEDICATED AS PER 2022 NFPA 72, 10.6.5.1.2 AND ITS LOCATION BE CLEARLY LABELED AT THE FIRE ALARM CONTROL PANEL.
- ALL FIRE ALARM EQUIPMENT POWER SOURCE CIRCUITS SHALL BE IDENTIFIED AT THE POWER SOURCE PER 2022 NFPA 72, 10.6.5.2. USING A RED CLEARLY MARKED DISCONNECT WITH LOCK-ON CAPABILITY. COORDINATE WITH ELECTRICAL.
- MICROPHONES ASSOCIATED WITH EMERGENCY VOICE ALARM COMMUNICATION SYSTEMS (EVAC) SHALL BE ACCESSIBLE FOR USE, INSTALLED IN COMPLIANCE WITH CBC SECTIONS 11B-305 AND 11B-308.
- WHERE ACCESSIBILITY IS NOT AVAILABLE TO THE NEW FIRE ALARM DEVICES LOCATED ABOVE THE CEILING/ATTIC SPACES, PROVIDE ACCESS PANELS TO THESE DEVICES, COORDINATE PRIOR TO THE EXECUTION OF WORK.
- THE CONTRACTOR SHALL PROVIDE AS-BUILT SHOP DRAWINGS INDICATING CIRCUITING OF ALL DETECTOR AS AND OTHER DEVICES IN ALL THE BUILDINGS OF THIS PROJECT. AS-BUILT DRAWINGS SHALL BE STORED IN FIRE ALARM DOCUMENT CABINET INSTALLED ADJACENT TO FIRE ALARM CONTROL PANEL OR LOCATION APPROVED BY AUTHORITY HAVING JURISDICTION.
- PROVIDE DOCUMENTATION CABINET TO BE INSTALLED PROXIMAL TO FACP (2022 NFPA 72, 7.7.2.1). ALL RECORD DOCUMENTATION SHALL BE STORED IN THE DOCUMENTATION CABINET (2022 NFPA 72 7.7.2.3). THE DOCUMENTATION CABINET TO BE PROMINENTLY LABELED "SYSTEM RECORD DOCUMENTS" (2022 NFPA 72 7.7.2.5).

FIRE ALARM MONITORING NOTE

AUTOMATIC FIRE ALARM SYSTEMS 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. SUPERVISION OF SYSTEM AND LEASED TELEPHONE LINES SHALL BE ARRANGED BY DISTRICT.

FIRE ALARM SHEET INDEX

SHEET NO.	SHEET TITLE
FA0.1	FIRE ALARM NOTES, LEGENDS, AND SPECIFICATIONS
FA1.1	OVERALL SITE PLAN
FA2.1	FIRE ALARM FLOOR PLANS BLDG A
FA2.2	FIRE ALARM FLOOR PLANS BLDG B, C, D & E
FA2.3	FIRE ALARM FLOOR PLANS BLDGS F, G, & H
FA2.4	FIRE ALARM FLOOR PLANS PORTABLES
FA3.1	FIRE ALARM RISER DIAGRAM - BLDGS A & C
FA3.2	FIRE ALARM RISER DIAGRAM - BLDGS: B, D, E, F, G, & H
FA3.3	FIRE ALARM RISER DIAGRAM - PORTABLES
FA3.4	FIRE ALARM BATTERY CALCULATIONS
FA3.5	FIRE ALARM BATTERY CALCULATIONS

7 FIRE ALARM SEQUENCE OF OPERATION

The diagrams illustrate the fire alarm system components and their interconnections. Key elements include:

- SMOKE DETECTOR POINT TO POINT DIAGRAM:** Shows a smoke detector connected to a control panel via a 24 VDC line. It includes a drain wire to be capped and taped at each device.
- HEAT DETECTOR POINT TO POINT DIAGRAM:** Similar to the smoke detector diagram, showing a heat detector connected to the control panel.
- TYPICAL CONDUIT PENETRATION THROUGH OUTSIDE WALL:** Details the installation of a pull station through an exterior wall, showing the conduit, pull station, and connection to the control panel.
- MANUAL PULL STATION POINT TO POINT DIAGRAM:** Shows a manual pull station connected to the control panel via a 24 VDC line.
- TYPICAL FIRE ALARM DEVICE & NOTIFICATION APPLIANCES ELEVATION DETAIL:** Provides a detailed view of the fire alarm devices (smoke and heat detectors) and notification appliances (strobe lights and speakers) mounted on a wall. It includes mounting heights and clearances.
- ABOVEGROUND CONDUIT TRANSITION BETWEEN PORTABLE BUILDINGS:** Shows the transition of fire alarm wiring between two portable buildings, highlighting the use of liquid-tight flexible conduit.

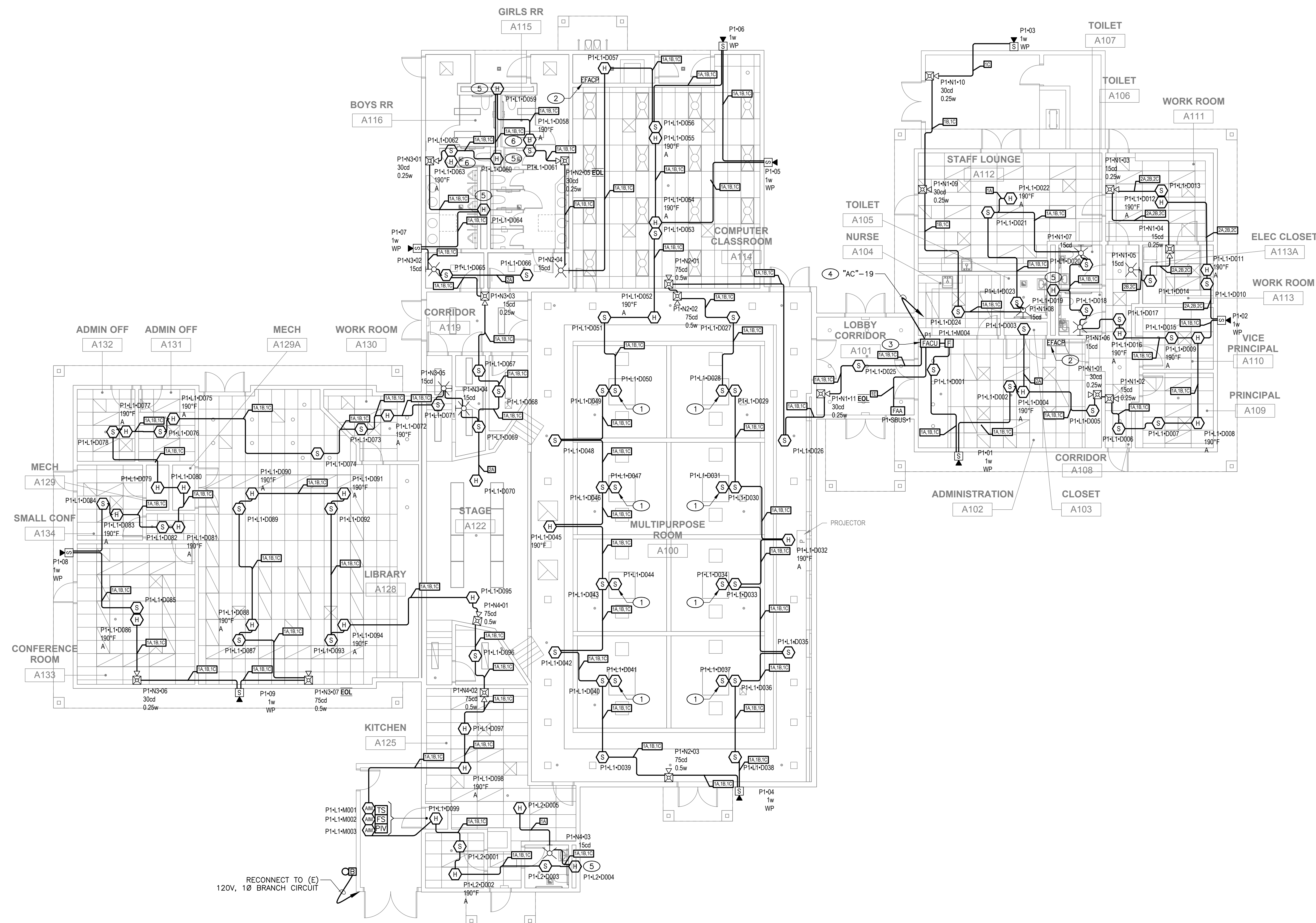






1. FOR ALL FIRE ALARM PANELS, PROVIDE NEW DEDICATED 20A, 120V CIRCUIT. PROVIDE 20/1 BREAKER AS REQUIRED. ALL FIRE ALARM DEDICATED CIRCUITS SHALL BE IDENTIFIED WITH A RED MARKING. DISCONNECT WITH LOCK-ON CAPABILITY NFPA 72, 10.6.5.2. FIELD VERIFY SPARE CIRCUITS, USE CLOSEST SPARE CIRCUIT.
2. FIELD VERIFY EXISTING CONDITIONS PRIOR TO PERFORMING WORK AND NOTIFY ARCHITECT/ENGINEER OF ANY CONFLICTS/DISCREPANCIES.


- ① INSTALL DETECTORS ON SIDE WALL OF SKYLIGHTS.
- ② EXISTING FIRE ALARM CONTROL PANEL TO BE DEMOLISHED UNLESS NEW FIRE ALARM SYSTEM IS FULLY FUNCTIONAL AND TESTED BY THE IOR.
- ③ NEW FIRE ALARM CONTROL PANEL WITH 50 WATT SPEAKER AMPLIFIER FOR VOICE EVACUATION.
- ④ (N) 1/2" C. WITH (2) #12 AND (1) #10 GND. SEE GENERAL NOTE 3 FOR ADDITIONAL REQUIREMENTS.
- ⑤ PROVIDE ACCESS DOOR TO SERVICE HEAT DETECTOR LOCATED IN CHASE.
- ⑥ IF NO SPACE ABOVE CEILING EXISTS, REMOVE ABOVE CEILING HEAT DETECTORS AND CREDIT TO OWNER.



**1 FIRE ALARM FLOOR PLAN- BLDG. A**  
1/8" = 1'-0"

IDENTIFICATION STAMP  
DIV. OF THE STATE ARCHITECT  
APP: 02-121265 INC:  
REVIEWED FOR  
SS ☐ FLS ☒ ACS ☒  
DATE: 05/24/2023

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## OAK HILL ES HARDSHIP MODERNIZATION

CJUSD  
3909 NORTH LOOP BLVD  
ANTELOPE, CA 95843

**FIRE ALARM  
FLOOR PLANS  
BLDG A**

## FA2.1

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① SEE FA1.1 FOR CONDUIT PATHWAYS AND WIRE.

② (N) 1/2" C WITH (2) #12 AND (1) #10 GND. SEE GENERAL NOTE 3 FOR ADDITIONAL REQUIREMENTS.

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**Abstract**

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(E) FIRE  
TERMINAL CABINET

- ① SEE FA1.1 FOR CONDUIT PATHWAYS AND WIRE.
- ② (N) 1/2" C WITH (2) #12 AND (1) #10 GND. SEE GENERAL NOTE 3 FOR ADDITIONAL REQUIREMENTS.
- ③ PROVIDE ACCESS DOOR TO SERVICE HEAT DETECTOR LOCATED IN CHASE.

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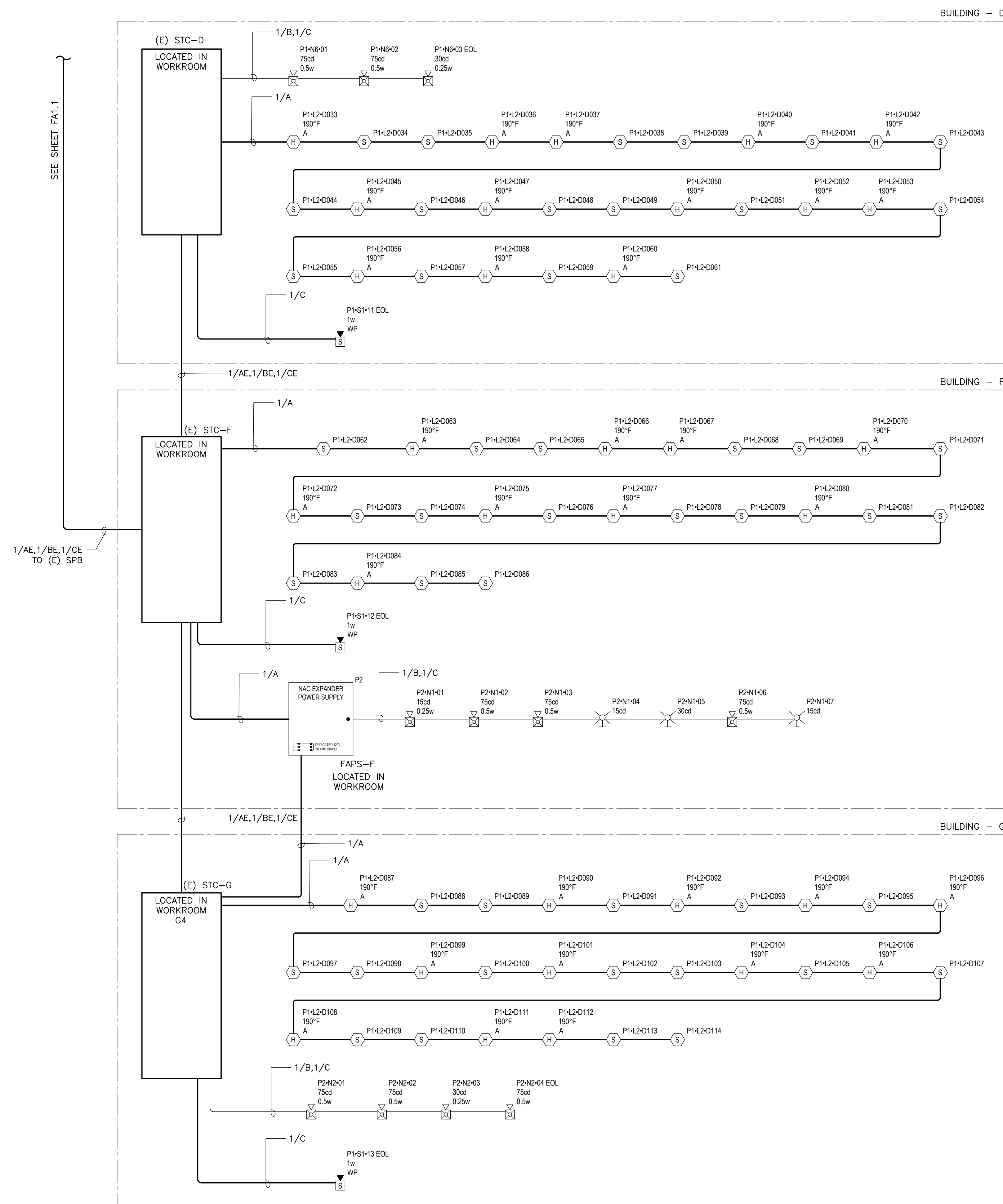
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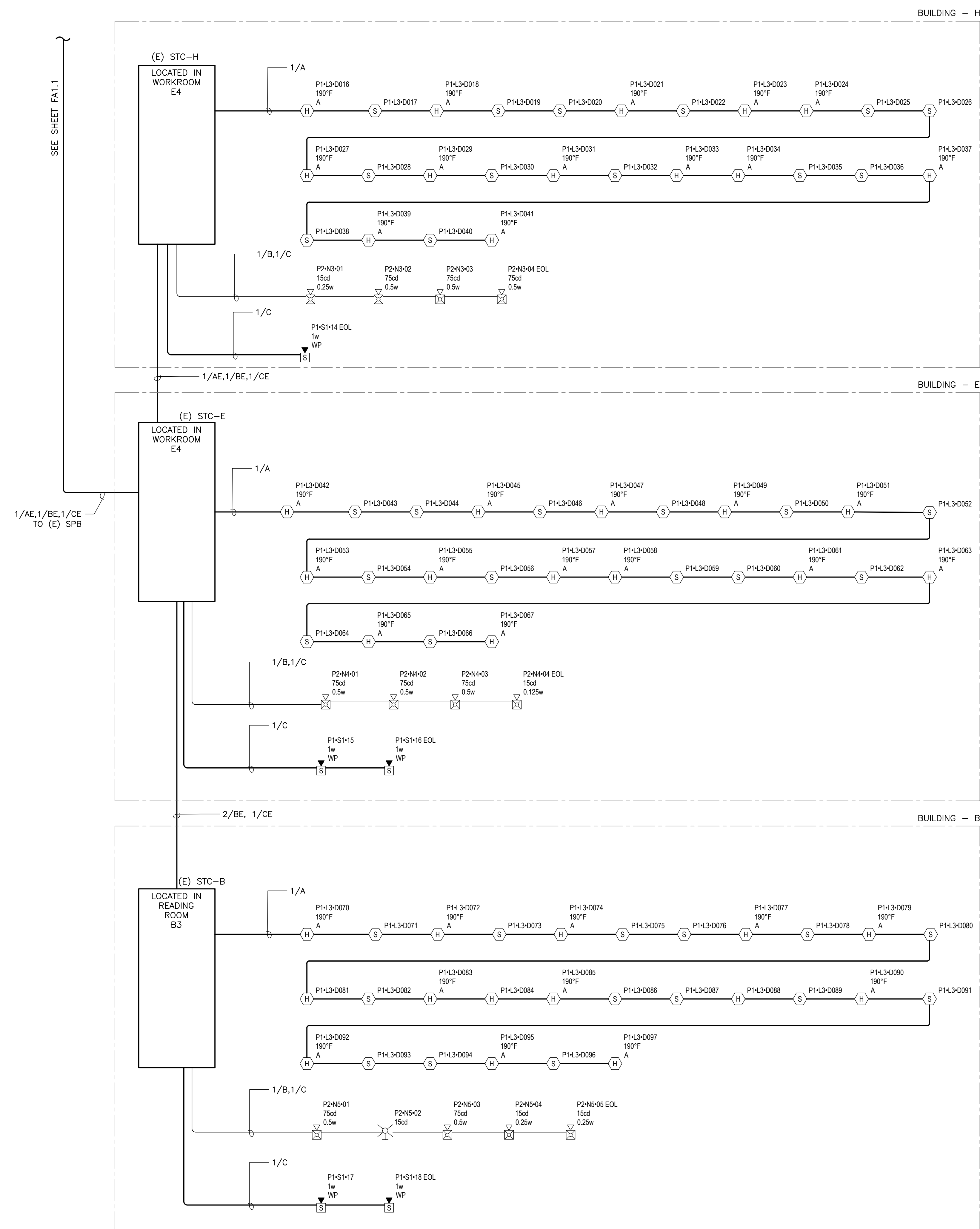








## 2 FIRE ALARM RISER DIAGRAM - BUILDINGS: D,F,G



**1 FIRE ALARM RISER DIAGRAM - BUILDINGS: B,E,H**

## GENERAL NOTES

1. FOR ALL FIRE ALARM PANELS, PROVIDE NEW DEDICATED 20A, 120V CIRCUIT. PROVIDE 20/1 BREAKER AS NECESSARY. FIRE ALARM DEDICATED CIRCUITS SHALL BE IDENTIFIED WITH A RED MARKING. DISCONNECT WITH LOW VOLT CAPABILITY NFPA 72, 10.6.5.2 COORDINATE WITH ELECTRICAL.
2. FIELD VERIFY EXISTING CONDITIONS PRIOR TO PERFORMING WORK AND NOTIFY ARCHITECT/ENGINEER OF ANY CONFLICTS/DISCREPANCIES.



1. FOR ALL FIRE ALARM PANELS, PROVIDE NEW DEDICATED 20A, 120V CIRCUIT. PROVIDE 20/1 BREAKER AS REQUIRED. ALL FIRE ALARM DEDICATED CIRCUITS SHALL BE IDENTIFIED WITH A RED MARKING. DISCONNECT WITH LOCK--ON CAPABILITY NFPA 72, 10.6.5.2 COORDINATE WITH ELECTRICAL.
2. FIELD VERIFY EXISTING CONDITIONS PRIOR TO PERFORMING WORK AND NOTIFY ARCHITECT/ENGINEER OF ANY CONFLICTS/DISCREPANCIES.



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# FIRE ALARM RISER DGM & CALCS- PORTABLES

### FA3.3

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PANEL P1 (SEAL-ELVS (SK)) BATTERY CALCULATION							
				STANDBY CURRENT (AMPS)		SECONDARY ALARM CURRENT (AMPS)	
				CURRENT DRAW (A)	TOTAL (A)	CURRENT DRAW (A)	TOTAL (A)
PANEL COMPONENTS	QTY	PART NO.	DESCRIPTION				
	1	S8150L SK PROTOCOL	Supervisory Low Voltage Expander, 150 pin (SK)	0.035	0.105	0.12	0.36
	1	S820M-ELVS MAIN BOARD	FIRE ALARM CONTROL PANEL MAIN BOARD SK	0.275	0.275	0.44	0.44
	1	EVS-SOW MAIN BOARD	PANEL COMPONENT INTELLIGENT SW WATT AMP-LITE	0.35	0.35	1.2	1.2
P1-K1	11	SK-HEAT	ADDRESSABLE HEAT DETECTOR, FIXED TEMP	0.0003	0.0033	0.0003	0.0033
	25	SK-HEAT-HT-W	ADDRESSABLE HEAT DETECTOR, FIXED TEMP	0.0002	0.005	0.0045	0.1125
	3	SK-MONITOR	ADDRESSABLE MONITOR MODULE	0.000375	0.001125	0.000375	0.001125
P1-K2	63	SK-PHOTO	PHOTOELECTRIC SMOKE DETECTOR	0.0003	0.0189	0.0003	0.0189
	1	SK-PULL-DA	ADDRESSABLE MANUAL PULL STATION, DOUBLE-ACTION	0.000375	0.000375	0.000375	0.000375
	2	SK-HEAT	ADDRESSABLE HEAT DETECTOR, FIXED TEMP	0.0003	0.0006	0.0003	0.0006
P1-K3	41	SK-HEAT-HT-W	ADDRESSABLE HEAT DETECTOR, FIXED TEMP	0.0002	0.0082	0.0045	0.1845
	56	SK-PHOTO	PHOTOELECTRIC SMOKE DETECTOR	0.0003	0.0168	0.0003	0.0168
	3	SK-HEAT	ADDRESSABLE HEAT DETECTOR, FIXED TEMP	0.0003	0.0009	0.0003	0.0009
P1-K4	40	SK-HEAT-HT-W	ADDRESSABLE HEAT DETECTOR, FIXED TEMP	0.0002	0.0088	0.0045	0.198
	54	SK-PHOTO	PHOTOELECTRIC SMOKE DETECTOR	0.0003	0.015	0.0003	0.015
	2	SK-HEAT	ADDRESSABLE HEAT DETECTOR, FIXED TEMP	0.0003	0.0066	0.0003	0.0066
P1-K5	34	SK-HEAT-HT-W	ADDRESSABLE HEAT DETECTOR, FIXED TEMP	0.0002	0.0068	0.0045	0.153
	36	SK-PHOTO	PHOTOELECTRIC SMOKE DETECTOR	0.0003	0.0108	0.0003	0.0108
P1-K6	4	ELSTW	WALL STROBE, WHITE, FIRE 15cd	0	0	0.022	0.088
	3	ET90-24MCC-FW	Speaker/Shrine, 24 VDC, Multi-Candela, 2570 Vrms, white 75cd	0	0	0.11	0.33
	4	ET90-24MCC-FW	Speaker/Shrine, 24 VDC, Multi-Candela, 2570 Vrms, white 75cd	0	0	0.17	0.68
P1-K7	1	ELSTW	WALL STROBE, WHITE, FIRE 15cd	0	0	0.022	0.022
	1	ET90-24MCC-FW	Speaker/Shrine, 24 VDC, Multi-Candela, 2570 Vrms, white 75cd	0	0	0.17	0.17
P1-K8	3	ET90-24MCC-FW	Speaker/Shrine, 24 VDC, Multi-Candela, 2570 Vrms, white 75cd	0	0	0.28	0.84
	3	ELSTW	WALL STROBE, WHITE, FIRE 15cd	0	0	0.022	0.066
P1-K9	1	ET90-24MCC-FW	Speaker/Shrine, 24 VDC, Multi-Candela, 2570 Vrms, white 75cd	0	0	0.11	0.11
	2	ET90-24MCC-FW	Speaker/Shrine, 24 VDC, Multi-Candela, 2570 Vrms, white 75cd	0	0	0.17	0.34
	1	ET90-24MCC-FW	Speaker/Shrine, 24 VDC, Multi-Candela, 2570 Vrms, white 75cd	0	0	0.28	0.28
P1-K10	1	ELSTW	WALL STROBE, WHITE, FIRE 15cd	0	0	0.022	0.022
	1	ET90-24MCC-FW	Speaker/Shrine, 24 VDC, Multi-Candela, 2570 Vrms, white 75cd	0	0	0.17	0.17
	2	ET90-24MCC-FW	Speaker/Shrine, 24 VDC, Multi-Candela, 2570 Vrms, white 75cd	0	0	0.28	0.56
P1-K11	3	ET90-24MCC-FW	Speaker/Shrine, 24 VDC, Multi-Candela, 2570 Vrms, white 75cd	0	0	0.28	0.84
	1	ET90-24MCC-FW	Speaker/Shrine, 24 VDC, Multi-Candela, 2570 Vrms, white 75cd	0	0	0.17	0.17
	2	ET90-24MCC-FW	Speaker/Shrine, 24 VDC, Multi-Candela, 2570 Vrms, white 75cd	0	0	0.28	0.56
P1-K12	19	ET-1010-R-w/WBS-R	Speaker, 25 or 70 V Vrms, 18 to 8 watts w/Backbox w/9" tie	0	0	0	0
	3	ET-1010-R-w/WBS-R	Speaker, 25 or 70 V Vrms, 18 to 8 watts w/Backbox w/9" tie	0	0	0	0
	1	SK-5235	REMOTE ANNUNCIATOR	0.03	0.03	0.05	0.05
TOTAL STANDBY (A)				0.8572	0.8572	0.05	0.05
TOTAL ALARM (A)				0.8572	0.8572	0.05	0.05
SECONDARY STANDBY LOAD (A)				0.8572	0.8572	0.05	0.05
SECONDARY ALARM LOAD (A)				0.8572	0.8572	0.05	0.05
STANDBY AND ALARM SUBTOTAL (AMP HOURS)				24	24	2	2
DEBATING FACTOR				1.2	1.2	1.2	1.2
SECONDARY LOAD REQUIREMENTS (AMP HOURS)				27.09	27.09	2.4	2.4
RECOMMENDED BATTERY SIZES NOT SPECIFIED. REFER TO MANUFACTURER DOCUMENTATION.							
BATTERY BOX SIZE CAPACITY NOT SPECIFIED. REFER TO MANUFACTURER DOCUMENTATION.							

P1 S1 SPEAKER SCHEDULE							
Circuit Wiring Properties: "S" 16Z FPLP/R (SPEAKER) 16 AWG, 2 Cond. Solid Copper FPLP/R Analog Speaker							
Distance measured using drawn segment lengths with 10.00 % additional length calculated.							
Device Label	Part No.	Description	Device Watts	Watts To Amps Conversion	Remaining Watts	Dist. From Previous (ft)	Resistance From Previous (Ω)
P1-01	ET-1010-R w/WBS-R	Speaker, 25 or 70 V Vrms, 18 to 8 watts w/Backbox w/9" tie	1	0.014144	19	22	0.218251
P1-02	ET-1010-R w/WBS-R	Speaker, 25 or 70 V Vrms, 18 to 8 watts w/Backbox w/9" tie	1	0.014144	18	65	0.639168
P1-03	ET-1010-R w/WBS-R	Speaker, 25 or 70 V Vrms, 18 to 8 watts w/Backbox w/9" tie	1	0.014144	17	79	0.774617
P1-04	ET-1010-R w/WBS-R	Speaker, 25 or 70 V Vrms, 18 to 8 watts w/Backbox w/9" tie	1	0.014144	16	169	1.655316
P1-05	ET-1010-R w/WBS-R	Speaker, 25 or 70 V Vrms, 18 to 8 watts w/Backbox w/9" tie	1	0.014144	15	109	1.063325
P1-06	ET-1010-R w/WBS-R	Speaker, 25 or 70 V Vrms, 18 to 8 watts w/Backbox w/9" tie	1	0.014144	14	26	0.250788
P1-07	ET-1010-R w/WBS-R	Speaker, 25 or 70 V Vrms, 18 to 8 watts w/Backbox w/9" tie	1	0.014144	13	84	0.818248
P1-08	ET-1010-R w/WBS-R	Speaker, 25 or 70 V Vrms, 18 to 8 watts w/Backbox w/9" tie	1	0.014144	12	109	1.068596
P1-09	ET-1010-R w/WBS-R	Speaker, 25 or 70 V Vrms, 18 to 8 watts w/Backbox w/9" tie	1	0.014144	11	51	0.494563
P1-S1-10	ET-1010-R w/WBS-R	Speaker, 25 or 70 V Vrms, 18 to 8 watts w/Backbox w/9" tie	1	0.014144	10	247	2.472891
P1-S1-11	ET-1010-R w/WBS-R	Speaker, 25 or 70 V Vrms, 18 to 8 watts w/Backbox w/9" tie	1	0.014144	9	91	0.882717
P1-S1-12	ET-1010-R w/WBS-R	Speaker, 25 or 70 V Vrms, 18 to 8 watts w/Backbox w/9" tie	1	0.014144	8	216	2.112116
P1-S1-13	ET-1010-R w/WBS-R	Speaker, 25 or 70 V Vrms, 18 to 8 watts w/Backbox w/9" tie	1	0.014144	7	131	1.280167
P1-S1-14	ET-1010-R w/WBS-R	Speaker, 25 or 70 V Vrms, 18 to 8 watts w/Backbox w/9" tie	1	0.014144	6	131	1.281885
P1-S1-15	ET-1010-R w/WBS-R	Speaker, 25 or 70 V Vrms, 18 to 8 watts w/Backbox w/9" tie	1	0.014144	5	166	1.620137
P1-S1-16	ET-1010-R w/WBS-R	Speaker, 25 or 70 V Vrms, 18 to 8 watts w/Backbox w/9" tie	1	0.014144	4	54	0.529044
P1-S1-17	ET-1010-R w/WBS-R	Speaker, 25 or 70 V Vrms, 18 to 8 watts w/Backbox w/9" tie	1	0.014144	3	121	1.175443
P1-S1-18	ET-1010-R w/WBS-R	Speaker, 25 or 70 V Vrms, 18 to 8 watts w/Backbox w/9" tie	1	0.014144	2	82	0.804017
P1-S1-19 EOL	ET-1010-R w/WBS-R	Speaker, 25 or 70 V Vrms, 18 to 8 watts w/Backbox w/9" tie	1	0.014144	1	478	4.873379




P1 S2 SPEAKER SCHEDULE							
Circuit Wiring Properties: "S" 16Z FPLP/R (SPEAKER) 16 AWG, 2 Cond. Solid Copper FPLP/R Analog Speaker							
Distance measured using drawn segment lengths with 10.00 % additional length calculated.							
Device Label	Part No.	Description	Device Watts	Watts To Amps Conversion	Remaining Watts	Dist. From Previous (ft)	Resistance From Previous (Ω)
P1-S2-01	ET-1010-R w/WBS-R	Speaker, 25 or 70 V Vrms, 18 to 8 watts w/Backbox w/9" tie	1	0.014144	3	547	5.351572
P1-S2-02	ET-1010-R w/WBS-R	Speaker, 25 or 70 V Vrms, 18 to 8 watts w/Backbox w/9" tie	1	0.014144	2	269	2.630463
P1-S2-03 EOL	ET-1010-R w/WBS-R	Speaker, 25 or 70 V Vrms, 18 to 8 watts w/Backbox w/9" tie	1	0.014144	1	107	1.047627

P1 S1 SPEAKER SCHEDULE							
Circuit Wiring Properties: "S" 16Z FPLP/R (SPEAKER) 16 AWG, 2 Cond. Solid Copper FPLP/R Analog Speaker							
Distance measured using drawn segment lengths with 10.00 % additional length calculated.							
Device Label	Part No.	Description	Device Watts	Watts To Amps Conversion	Remaining Watts	Dist. From Previous (ft)	Resistance From Previous (Ω)
P1-S2-01	ET-1010-R w/WBS-R	Speaker, 25 or 70 V Vrms, 18 to 8 watts w/Backbox w/9" tie	1	0.014144	3	547	5.351572
P1-S2-02	ET-1010-R w/WBS-R	Speaker, 25 or 70 V Vrms, 18 to 8 watts w/Backbox w/9" tie	1	0.014144	2	269	2.630463
P1-S2-03 EOL	ET-1010-R w/WBS-R	Speaker, 25 or 70 V Vrms, 18 to 8 watts w/Backbox w/9" tie	1	0.014144	1	107	1.047627

PANEL P2 (SK-PS16) BATTERY CALCULATION							
				STANDBY CURRENT (AMPS)		SECONDARY ALARM CURRENT (AMPS)	
				CURRENT DRAW (A)	TOTAL (A)	CURRENT DRAW (A)	TOTAL (A)
PANEL COMPONENTS	QTY	PART NO.	DESCRIPTION				
P2-K1	1	SK-PS16 MAIN BOARD	Fire Alarm Power Supply Main Board	0.156	0.156	0.165	0.165
	2	ELSTW	WALL STROBE, WHITE, FIRE 15cd	0	0	0.022	0.044
	1	ET90-24MCC-FW	Speaker/Shrine, 24 VDC, Multi-Candela, 2570 Vrms, white 75cd	0	0	0.11	0.11
P2-K2	4	ET90-24MCC-FW	Speaker/Shrine, 24 VDC, Multi-Candela, 2570 Vrms, white 75cd	0	0	0.28	1.12
	1	ET90-24MCC-FW	Speaker/Shrine, 24 VDC, Multi-Candela, 2570 Vrms, white 75cd	0	0	0.17	0.17
	3	ET90-24MCC-FW	Speaker/Shrine, 24 VDC, Multi-Candela, 2570 Vrms, white 75cd	0	0	0.28	0.84
P2-K3	1	ET90-24MCC-FW	Speaker/Shrine, 24 VDC, Multi-Candela, 2570 Vrms, white 75cd	0	0	0.11	0.11
	3	ET90-24MCC-FW	Speaker/Shrine, 24 VDC, Multi-Candela, 2570 Vrms, white 75cd	0	0	0.28	0.84
	1	ET90-24MCC-FW	Speaker/Shrine, 24 VDC, Multi-Candela, 2570 Vrms, white 75cd	0	0	0.11	0.11
P2-K4	3	ET90-24MCC-FW	Speaker/Shrine, 24 VDC, Multi-Candela, 2570 Vrms, white 75cd	0	0	0.28	0.84
	1	ELSTW	WALL STROBE, WHITE, FIRE 15cd	0	0	0.022	0.022
	2	ET90-24MCC-FW	Speaker/Shrine, 24 VDC, Multi-Candela, 2570 Vrms, white 75cd	0	0	0.11	0.22
P2-K5	2	ET90-24MCC-FW	Speaker/Shrine, 24 VDC, Multi-Candela, 2570 Vrms, white 75cd	0	0	0.28	0.56
TOTAL STANDBY (A)				0.156	0.156	0.165	0.165
TOTAL ALARM (A)				0.156	0.156	0.165	0.165
SECONDARY STANDBY LOAD (A)				0.156	0.156	0.165	0.165
SECONDARY ALARM LOAD (A)				0.156	0.156	0.165	0.165
STANDBY AND ALARM SUBTOTAL (AMP HOURS)				24	24	2	2
DEBATING FACTOR				1.2	1.2	1.2	1.2
SECONDARY LOAD REQUIREMENTS (AMP HOURS)				27.09	27.09	2.4	2.4
RECOMMENDED BATTERY SIZES NOT SPECIFIED. REFER TO MANUFACTURER DOCUMENTATION.							
BATTERY BOX SIZE CAPACITY NOT SPECIFIED. REFER TO MANUFACTURER DOCUMENTATION.							




PANEL P3 (SK-PS16) BATTERY CALCULATION							
				STANDBY CURRENT (AMPS)		SECONDARY ALARM CURRENT (AMPS)	
				CURRENT DRAW (A)	TOTAL (A)	CURRENT DRAW (A)	TOTAL (A)
PANEL COMPONENTS	QTY	PART NO.	DESCRIPTION				
P3-K1	1	SK-PS16 MAIN BOARD	Fire Alarm Power Supply Main Board	0.156	0.156	0.165	0.165
	2	ELSTW	WALL STROBE, WHITE, FIRE 15cd	0	0	0.022	0.044
	1	ET90-24MCC-FW	Speaker/Shrine, 24 VDC, Multi-Candela, 2570 Vrms, white 75cd	0	0	0.11	0.11
P3-K2	4	ET90-24MCC-FW	Speaker/Shrine, 24 VDC, Multi-Candela, 2570 Vrms, white 75cd	0	0	0.28	1.12
	1	ET90-24MCC-FW	Speaker/Shrine, 24 VDC, Multi-Candela, 2570 Vrms, white 75cd	0	0	0.17	0.17
	3	ET90-24MCC-FW	Speaker/Shrine, 24 VDC, Multi-Candela, 2570 Vrms, white 75cd	0	0	0.28	0.84
P3-K3	1	ET90-24MCC-FW	Speaker/Shrine, 24 VDC, Multi-Candela, 2570 Vrms, white 75cd	0	0	0.11	0.11
	3	ET90-24MCC-FW	Speaker/Shrine, 24 VDC, Multi-Candela, 2570 Vrms, white 75cd	0	0	0.28	0.84
	1	ET90-24MCC-FW	Speaker/Shrine, 24 VDC, Multi-Candela, 2570 Vrms, white 75cd	0	0	0.11	0.11
P3-K4	3	ET90-24MCC-FW	Speaker/Shrine, 24 VDC, Multi-Candela, 2570 Vrms, white 75cd	0	0	0.28	0.84






P1 N1 LUMP SUM REPORT				CIRCUIT SETTINGS		TOTALS	
Starting Calculation Voltage: 20.4				Max. Voltage Drop:		1.96	
Min. Operational Voltage: 16				End Of Line Voltage:		18.44	
Max. Circuit Current (A): 3				Voltage Drop Percent:		9.62 %	
Wire Resistance (DMPF): 3.07				Total Circuit Current (A):		1.968	
Total Circuit Length (Ft): 297				Spare Current (A) Percent:		1.962	
Distance measured using drawn segment lengths with 10.00 % additional length calculated				Total Circuit Resistance (Ω): 1.788366		Spare Current (A) Percent:	
				Qty:		Device Current (A)	
DEVICE TOTALS	Symbol	Part No.	Description	Qty.	Device Current (A)	Total Current (A)	
		ELSTW	WALL STRIKE, WHITE, FBE 15c	4	0.022	0.088	
		ET90-24MCC-FW	Speaker/Shrobe, 24 VDC, Multi-Candela, 25/70 Vrms, white 30cd	3	0.11	0.33	
		ET90-24MCC-FW	Speaker/Shrobe, 24 VDC, Multi-Candela, 25/70 Vrms, white 30cd	4	0.17	0.68	
Calculation Methods:							
Total Resistance (Ω) = Wire Resistance (DMPF) x 2 + Total Circuit Length (Ft)							
Total Voltage Drop = Total Resistance (Ω) x Total Circuit Current (A)							

P1 N2 LUMP SUM REPORT				CIRCUIT SETTINGS		TOTALS		
Circuit Wiring Properties: 14 AWG 2-COND Solid Copper 100% Infrared Annotated Distance measured using drawn segment lengths with 10.00 % additional length calculated				Starting Calculation Voltage		Max. Voltage Drop		1.65
				Min. Operational Voltage		End Of Line Voltage		18.75
				Max. Circuit Current (A)		Voltage Drop Percent		8.07 %
				Wire Resistance (DMPF)		Total Circuit Current (A)		1.632
				Total Circuit Length (Ft)		Spare Current (A) Percent		1.568
				Distance measured using drawn segment lengths with 10.00 % additional length calculated		Total Circuit Resistance (Ω)		1.196535
Symbol	Part No.	Description	Qty.	Device Current (A)	Total Current (A)			
DEVICE TOTALS	⌵	ELSTW	WALL STRIKE, WHITE, FBE 15c	1	0.022	0.022		
	⌵	ET90-24MCC-FW	Multi-Candela, 25/70 Vrms, white 30cd	1	0.17	0.17		
	⌵	ET90-24MCC-FW	Speaker/Shrobe, 24 VDC, Multi-Candela, 25/70 Vrms, white 30cd	3	0.28	0.84		
	Calculation Methods:							
Total Resistance (Ω) = Wire Resistance (DMPF) x 2 + Total Circuit Length (Ft)								
Total Voltage Drop = Total Resistance (Ω) x Total Circuit Current (A)								

P1 N3 LUMP SUM REPORT				CIRCUIT SETTINGS		TOTALS	
Starting Calculation Voltage:				20.4	Max. Voltage Drop:		1.5
Min. Operational Voltage:				16	End Of Line Voltage:		18.9
Max. Circuit Current (A):				3	Voltage Drop Percent:		7.25 %
Wire Resistance (DMPF):				3.07	Total Circuit Current (A):		1.796
Total Circuit Length (Ft):				307	Spare Current (A) Percent:		2.204
Distance measured using drawn segment lengths with 10.00 % additional length calculated				Total Circuit Resistance (Ω):		Spare Current (A) Percent:	
				Qty:		Device Current (A)	
DEVICE TOTALS	Symbol	Part No.	Description	Qty.	Device Current (A)	Total Current (A)	
	⌵	ELSTW	WALL STRIKE, WHITE, FBE 15c	3	0.022	0.066	
	⌵	ET90-24MCC-FW	Multi-Candela, 25/70 Vrms, white 15cd	1	0.11	0.11	
	⌵	ET90-24MCC-FW	Speaker/Shrobe, 24 VDC, Multi-Candela, 25/70 Vrms, white 15cd	2	0.17	0.34	
	⌵	ET90-24MCC-FW	Speaker/Shrobe, 24 VDC, Multi-Candela, 25/70 Vrms, white 15cd	1	0.28	0.28	
Calculation Methods:							
Total Resistance (Ω) = Wire Resistance (DMPF) x 2 + Total Circuit Length (Ft)							
Total Voltage Drop = Total Resistance (Ω) x Total Circuit Current (A)							

P1 N4 LUMP SUM REPORT				CIRCUIT SETTINGS		TOTALS	
Circuit Wiring Parameters: 143 FPLPWR (N4) 2 Cond. Solid Core FPLPWR (N4) Unshielded Distance measured using drawn segment lengths with 10.00 % additional length calculated				Starting Calculation Voltage	20.4	Max. Voltage Drop	1.88
				Min. Operational Voltage	16	End Of Line Voltage	18.52
				Max. Circuit Current (A)	3	Voltage Drop Percent	9.21 %
				Wire Resistance (DMPF)	3.07	Total Circuit Current (A)	0.752
				Total Circuit Length (Ft)	429	Spare Current (A) Percent	74.82 %
				Total Circuit Resistance (Ω)	2.03588	Spare Current (A) Percent	2.628
				Qty:	Device Current (A)	Total Current (A)	
DEVICE TOTALS		ELSTW	WALL STRIKE, WHITE, FBE 15c	1	0.022	0.022	
		ET90-24MCC-FW	Speaker/Shrobe, 24 VDC, Multi-Candela, 25/70 Vrms, white 30cd	1	0.17	0.17	
		ET90-24MCC-FW	Speaker/Shrobe, 24 VDC, Multi-Candela, 25/70 Vrms, white 30cd	2	0.28	0.56	
	Calculation Methods:						
Total Resistance (Ω) = Wire Resistance (DMPF) x 2 + Total Circuit Length (Ft)							
Total Voltage Drop = Total Resistance (Ω) x Total Circuit Current (A)							

P1 NO LUMP SUM REPORT				CIRCUIT SETTINGS		TOTALS	
Starting Calculation Voltage:				20.4	Max. Voltage Drop:	1.57	
Min. Operational Voltage:				16	End Of Line Voltage:	19.83	
Max. Circuit Current (A):				3	Voltage Drop Percent:	7.68 %	
Wire Resistance (DMPF):				3.07	Total Circuit Current (A):	0.84	
Total Circuit Length (Ft):				304	Spare Current (A) Percent:	2.16	
Distance measured using drawn segment lengths with 10.00 % additional length calculated					Total Circuit Resistance (Ω):	1.86441	
				Qty:	Device Current (A)	Total Current (A)	
Symbol				Part No.	Description		
⌵				ET90-24MCC-FW	Super-Slim, 24 VDC, Multi-Candela, 25/70 Vrms, white 15cd	0.84	
Calculation Methods:							
Total Resistance (Ω) = Wire Resistance (DMPF) x 2 + Total Circuit Length (Ft)							
Total Voltage Drop = Total Resistance (Ω) x Total Circuit Current (A)							

P1 N6 LUMP SUM REPORT				CIRCUIT SETTINGS		TOTALS	
Circuit Wiring Properties: #142 P2PWR (P1) to A1WC, 2 Cond. Solid Copper P2PWR (P1) Ansys Unlimited Distance measured using drawn segment lengths with 10.0 % additional length calculated				Starting Calculation Voltage:	20.4	Max. Voltage Drop:	1.72
				Min. Operational Voltage:	16	End Of Line Voltage:	19.68
				Max. Circuit Current (A):	3	Voltage Drop Percent:	8.43 %
				Wire Resistance (DMPF):	3.07	Total Circuit Current (A):	0.73
				Total Circuit Length (Ft):	384	Spare Current (A) Percent:	75.87 %
Symbol				Total Circuit Resistance (Ω):	2.24732	Spare Current (A) Percent:	75.87 %
				Qty:	Device Current (A)		
DEVICE TOTALS		ET90-24MCC-FW	Speaker/Shrobe, 24 VDC, Multi-Candela, 25/70 Vrms, white 30cd	1	0.17	0.17	
		ET90-24MCC-FW	Speaker/Shrobe, 24 VDC, Multi-Candela, 25/70 Vrms, white 30cd	2	0.28	0.56	
		ET90-24MCC-FW	Speaker/Shrobe, 24 VDC, Multi-Candela, 25/70 Vrms, white 30cd	2	0.28	0.56	
Calculation Methods:							
Total Resistance (Ω) = Wire Resistance (DMPF) x 2 + Total Circuit Length (Ft)							
Total Voltage Drop = Total Resistance (Ω) x Total Circuit Current (A)							

P3 N1 LUMP SUM REPORT				CIRCUIT SETTINGS		TOTALS		
Circuit Voltage (V) 240 Distance measured using drawn segment lengths with 10.00 % additional length calculated				Starting Calculation Voltage		20.4	1.92	
				Min. Operational Voltage		16	18.48	
				Max. Circuit Current (A)		3	9.41 %	
				Wire Resistance (DMPF)		3.07	1.208	
				Total Circuit Length (Ft)		299	1.192	
				Total Circuit Resistance (Ω)		1.993194	Spare Current (A) Percent	
				Qty.		Device Current (A)	Total Current (A)	
Symbol				Part No.	Description	Qty.	Device Current (A)	Total Current (A)
⌵				ELSTW	WALL STRIKE, WHITE, FBE 15c	4	0.022	0.088
⌵				ET90-24MCC-FW	Multi-Candela, 25/70 Vrms, white 30cd	4	0.28	1.12
⌵				ET90-24MCC-FW	Speaker/Shrobe, 24 VDC, Multi-Candela, 25/70 Vrms, white 30cd	4	0.28	1.12
DEVICES TOTALS								
Calculation Methods:								
Total Resistance (Ω) = Wire Resistance (DMPF) x 2 + Total Circuit Length (Ft)								
Total Voltage Drop = Total Resistance (Ω) x Total Circuit Current (A)								

				CIRCUIT SETTINGS		TOTALS	
P3 N2 LUMP SUM REPORT				Starting Calculation Voltage	20.4	Max. Voltage Drop	1.81
				Min. Operational Voltage	16	End Of Line Voltage	18.59
				Max. Circuit Current (A)	3	Voltage Drop Percent	8.89 %
				Wire Resistance (DMPF)	3.07	Total Circuit Current (A)	1.6
				Total Circuit Length (Ft)	211	Spare Current (A) Percent	51.93 %
Circuit Wiring Properties: 1/402 P3/P2/N2 AWG 2 Cond. Solid Copper P3/P2/N2 Unshielded				Total Circuit Resistance (Ω)		1.26352	
Distance measured using drawn segment lengths with 10.00 % additional length calculated				Qty.	Device Current (A)	Total Current (A)	
DEVICES TOTALS		Symbol	Part No.	Description	Qty.	0.28	1.4
		⌵	ET90-24MCC-FW	Multi-Candela, 25/70 Vrms, white 15cd	5		
Calculation Methods:							
Total Resistance (Ω) = Wire Resistance (DMPF) x 2 + Total Circuit Length (Ft)							
Total Voltage Drop = Total Resistance (Ω) x Total Circuit Current (A)							

P2 N3 LUMP SUM REPORT				CIRCUIT SETTINGS	
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