

ELECTRICAL SYMBOLS

- ELECTRICAL PANEL
- G

PANEL DESIGNATION, LETTER IDENTIFIES THE PANEL.
- ⊞

DUPLEX RECEPTACLE: 125V., 20 AMP., NEMA 5-20R. +18" U.N.O.
- ⊙

JUNCTION BOX: MOUNTED IN CELING SPACE OR ON CEILING IF NO CEILING SPACE.
- ⊚

JUNCTION BOX: MOUNTED ON WALL.
- ⚡

EMERGENCY LIGHTING FIXTURE: KENALL: #METELHC-40N-2-6.5L-120
- ⊙

CEILING MOUNT LIGHTING OCCUPANCY SENSOR. nLIGHT
- ⊞

WALL MOUNT DIGITAL DIMMING SWITCH.
- ⊞

WALL MOUNT LIGHTING OCCUPANCY SENSOR SWITCH. nLIGHT
- ⊞

WALL MOUNT LIGHTING OCCUPANCY SENSOR.
- ⊞

EXISTING PA SPEAKER
- ⊞

EXISTING WALL MOUNTED PHONE
- CONDUIT: EXPOSED IN UNFINISHED AREAS; CONCEALED ABOVE CEILING OR IN WALL IN FINISHED AREAS.
- CONDUIT: IN OR BELOW FLOOR OR BELOW GRADE.
- EXISTING CONDUIT WITH WIRES.
- A-1,3,5

←

HOMERUN TO PANEL "A", CIRCUITS 1, 3, 5.
- A-1,2,3

←

HOMERUN TO PANEL "A", CIRCUITS A-1, A-2, & A-3.
- 3/4"C, 2#12 THWN-CU & 1#12G.
- 3/4"C, 3#12 THWN-CU & 1#12G.
- 3/4"C, 4#12 THWN-CU & 1#12G.
- 3/4"C, 5#12 THWN-CU & 1#12G.
- 3/4"C, 6#12 THWN-CU & 1#12G.
- 1/2"C WITH LIGHTING DIMMING CABLE, 2#16
- W700 WIREMOLD, 2#12 THWN-CU & 1#12G.
- LV— CONTROL CABLE, CAT-5E DATA CABLE WITH JACK, PLENUM TYPE.
- 1"C,3#6

OTHER CONDUIT AND WIRE SIZE AS NOTED ON DRAWINGS.
- S_{ab}

MULTIPLE SINGLE POLE SWITCHES IN MUTIGANG BOX. NUMBER OF LOWER CASE LETTER INDICATE NUMBER OF SWITCHES.
- S

SINGLE POLE KEY SWITCH. HUBBEL 1201L
- S₂

TWO POLE SWITCH.
- S_M

HORSE POWER RATED SWITCH.
- S_{Kab}

KEYED SWITCH (2) SINGLE POLE.
- ⚡

FUSED DISCONNECT SWITCH H.P. RATED WITH CLASS "R" FUSE CLIPS.
- H.P.

HORSEPOWER.
- C.O.

CONDUIT ONLY WITH #12 PULL WIRE
- N.F.

NON-FUSED.
- W.P.

WEATHERPROOF.
- (E)

EXISTING.
- L

LOCKABLE
- TC

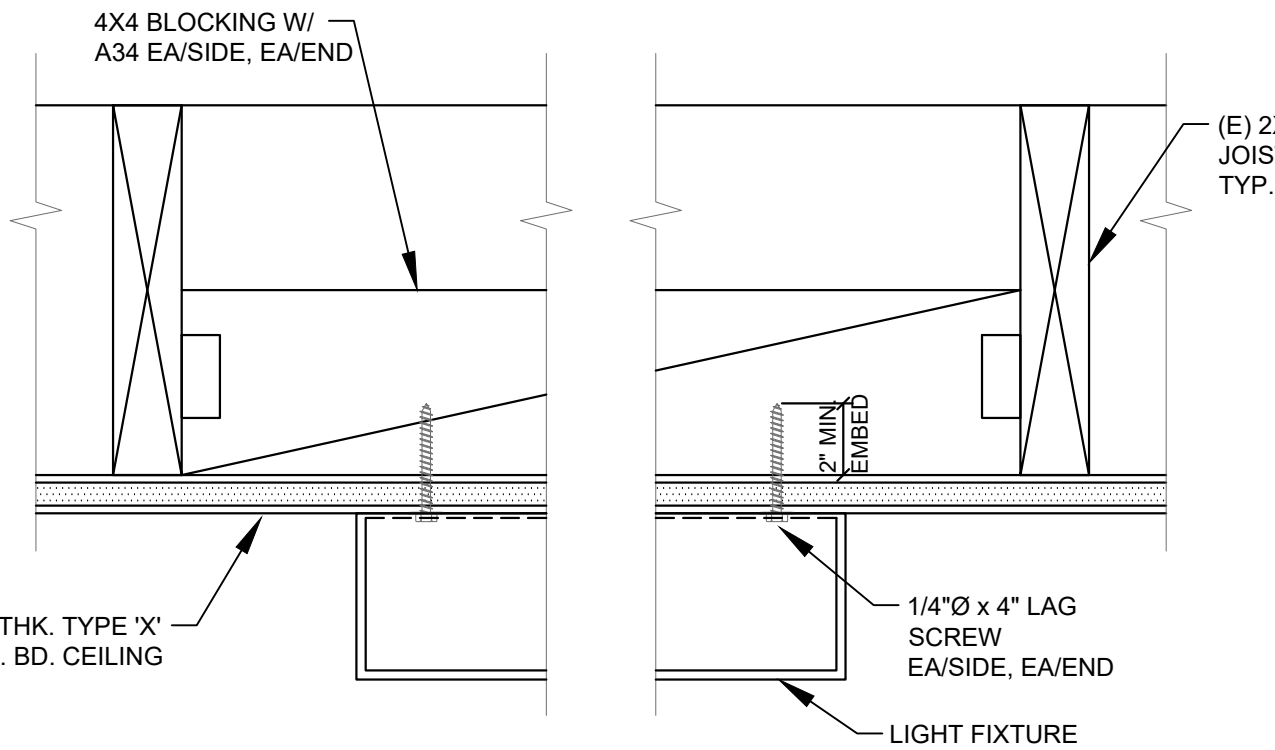
TIME CLOCK.
- (R)

RELOCATE.
- (XR)

DEMOLITION
- (RR)

REMOVE & REINSTALL
- ①

REFERENCE KEYED NOTE.



SURFACE MOUNTED LIGHT FIXTURE
1
E0.01
N.T.S.

LIGHTING FIXTURE SCHEDULE							REMARKS
TYPE	DESCRIPTION	FINISH	LED	DRIVER	WATTAGE	MANUFACTURER & PART NUMBER	
F1	1X4 RECESSED LINEAR LED WITH SATIN LENS	WHITE	1-31.5W LED SK	0-10V DIMMING	28	COLUMBIA - NBT-14-40-036-G-SF-ED1-U-FK14	RECESSED
F1E	1X4 RECESSED LINEAR LED WITH SATIN LENS EM BATTERY	WHITE	1-31.5W LED SK	0-10V DIMMING	28	COLUMBIA - NBT-14-40-036-G-SF-ED1-U-FK14-ELL14	RECESSED
F2	12IN ROUND SURFACE MOUNT DROP	STANDARD FINISHES	1-22.0W LED SK	0-10V DIMMING	22	ENVISION LED - SLDSRR-12-22W-CCT-WT	SURFACE
F2E	12IN ROUND SURFACE MOUNT DROP EM BATTERY	STANDARD FINISHES	1-22.0W LED SK	0-10V DIMMING	22	ENVISION LED - SLDSRR-12-22W-CCT-WT SLDSRR-12-EMB-UNV	SURFACE

GENERAL NOTES

1. THE SPECIFICATIONS AND DRAWINGS ARE INTENDED TO COVER A COMPLETE INSTALLATION OF SYSTEMS. THE OMISSION OF EXPRESSED REFERENCE TO ANY ITEM OF LABOR OR MATERIAL FOR THE PROPER EXECUTION OF THE WORK IN ACCORDANCE WITH PRESENT PRACTICE OF THE TRADE SHALL NOT RELIEVE THE CONTRACTOR FROM PROVIDING SUCH ADDITIONAL LABOR AND MATERIALS.
2. WORK INCLUDES ALL LABOR, MATERIALS, APPLIANCES, TOOLS, EQUIPMENT, FACILITIES, TRANSPORTATION AND SERVICES NECESSARY FOR AND INCIDENTAL TO PERFORMING ALL OPERATIONS IN CONNECTION WITH FURNISHING, DELIVERY AND INSTALLATION OF ELECTRICAL SYSTEM, COMPLETE, AS SHOWN ON THE DRAWINGS AND/OR SPECIFIED HEREIN.
3. CONSTRUCT PROJECT IN ACCORDANCE WITH FOLLOWING CODES: REGULATIONS OF STATE AND LOCAL FIRE MARSHAL; NATIONAL ELECTRIC CODE, NATIONAL FIRE PROTECTION ASSOCIATION, EDITION IN FORCE; LOCAL CODES AND ORDINANCES; TITLE 19, 21 AND 24 CALIFORNIA ADMINISTRATIVE CODE.
4. PERMITS, FEES AND INSPECTIONS: OBTAIN AND PAY FOR ALL NECESSARY PERMITS AND FEES REQUIRED BY ANY CONSTITUTED AUTHORITY HAVING JURISDICTION INCLUDING UTILITIES. ARRANGE AND PAY FOR ALL REQUIRED INSPECTIONS OR EXAMINATIONS AND DELIVER CERTIFICATES OF INSPECTION TO ARCHITECT.
5. RECORD DRAWINGS: ON COMPLETION OF WORK, OBTAIN ONE SET OF XEROX VELLUMS FROM ARCHITECT AT COST OF PRINTING, AND NOTE NEATLY IN SCALE ALL CHANGES ON RECORD SET. DELIVER COMPLETE SET OF VELLUMS TOGETHER WITH ONE SET OF BLUELINE PRINTS TO ARCHITECT TOGETHER WITH CONTRACTOR'S NAME, ADDRESS AND PHONE NUMBER. INCORRECT, NON-LEGIBLE OR NON-REPRODUCIBLE DRAWINGS WILL NOT BE ACCEPTED.
6. SUBMIT A LIST OF MATERIALS AND EQUIPMENT MANUFACTURERS THAT CONTRACTOR INTENDS TO USE. SUBMIT SHOP DRAWINGS FOR: SWITCHBOARDS, PANELBOARDS, LIGHT FIXTURES, TRANSFORMERS AND DISCONNECT SWITCHES.
7. THE TERM "PROVIDE" USED ON DRAWINGS SHALL BE CONSIDERED TO MEAN "FURNISH AND INSTALL".
8. BEFORE PROCEEDING WITH WORK CAREFULLY CHECK AND VERIFY ALL DIMENSIONS AND SIZES AND ASSUME ALL RESPONSIBILITY FOR FITTING OF MATERIALS AND EQUIPMENT TO OTHER PARTS OF EQUIPMENT AND TO STRUCTURE. WHERE APPARATUS AND EQUIPMENT HAVE BEEN INDICATED ON DRAWINGS, DIMENSIONS HAVE BEEN TAKEN FROM TYPICAL EQUIPMENT OF CLASS INDICATED. CAREFULLY CHECK DRAWINGS AND SEE THAT EQUIPMENT WILL FIT INTO SPACES PROVIDED.
9. LOCATIONS OF CONDUITS, OUTLETS, APPARATUS AND EQUIPMENT INDICATED ON DRAWINGS ARE APPROXIMATE ONLY AND SHALL BE CHANGED TO MEET ARCHITECTURAL AND STRUCTURAL CONDITIONS AS REQUIRED.
10. BE CAUTIONED THAT DIAGRAMS SHOWING ELECTRICAL CONNECTIONS ARE DIAGRAMMATIC ONLY AND MUST NOT BE USED FOR OBTAINING LINEAL RUNS OF WIRING OR CONDUIT. WIRING DIAGRAMS DO NOT NECESSARILY SHOW EXACT PHYSICAL ARRANGEMENT OF EQUIPMENT.
11. EXTRA WORK OR COSTS TO THIS CONTRACTOR DUE TO OTHER CONTRACTORS OR TRADES SHALL BE ADJUSTED BETWEEN THIS CONTRACTOR AND OFFENDING CONTRACTOR AT NO EXTRA COST TO OWNER. NOTIFY ARCHITECT BEFORE SUCH EXTRA WORK IS DONE.
12. WHERE EQUIPMENT IS MOUNTED ON VIBRATION ISOLATORS, USE FLEXIBLE CONNECTIONS TO REDUCE TRANSMISSION OF NOISE.
13. WHERE CONDUITS PASS THROUGH SLEEVES IN INTERIOR WALLS, FLOORS, OR CEILINGS, COMPLETELY FILL SPACE BETWEEN EACH CONDUIT AND ITS SLEEVE TO PROVIDE AN AIRTIGHT SEAL.
14. USE GLASS FIBER MATERIAL, "DUXSEAL" COMPOUND, FOR ACOUSTIC SEALS.
15. PROVIDE RECESSED OUTLET BOXES IN FINISHED AREAS, SECURE BOXES TO INTERIOR WALL AND PARTITION STUDS. ACCURATELY POSITION TO ALLOW FOR SURFACE FINISH THICKNESS. USE STAMPED STEEL STUD BRIDGES FOR FLUSH OUTLETS IN HOLLOW STUD WALL, AND ADJUSTABLE STEEL CHANNEL FASTENERS FOR FLUSH CEILING OUTLET BOXES. INSTALL PLASTER RINGS TO INTERFACE WITH EQUIPMENT TO BE MOUNTED THEREON.
16. ALIGN WALL-MOUNTED OUTLET BOXES FOR SWITCHES, THERMOSTATS, AND SIMILAR DEVICES.
17. PROVIDE MALLEABLE (FS TYPE) METAL OUTLET BOXES IN EXTERIOR LOCATIONS AND WET LOCATIONS.
18. WHERE BOXES ARE INSTALLED IN FIRE RATED CEILING OR WALLS, BE RESPONSIBLE FOR PRESERVING INTEGRITY OF FIRE RATING AS REQUIRED.
19. IN FIRE-RATED WALL, USE 4" SQUARE DEEP BOXES. DO NOT AGGREGATE MORE THAN 100 SQUARE INCHES OF BOXES FOR ANY 100 SQUARE FEET OF WALL OR PARTITIONS. SEPARATE OUTLET BOXES ON OPPOSITE SIDES OF WALLS OR PARTITION BY A MINIMUM HORIZONTAL DISTANCE OF 24 INCHES.
20. THE CALIFORNIA ENERGY CODE SECTION 10-103 REQUIRES ACCEPTANCE TESTING ON ALL NEWLY INSTALLED LIGHTING CONTROLS, MECHANICAL SYSTEMS, ENVELOPES, AND PROCESS EQUIPMENT AFTER INSTALLATION AND BEFORE PROJECT COMPLETION. AN ACCEPTANCE TEST IS A FUNCTIONAL PERFORMANCE TEST TO HELP ENSURE THAT NEWLY INSTALLED EQUIPMENT IS OPERATING AND IN COMPLIANCE WITH THE ENERGY CODE.
- LIGHTING CONTROLS ACCEPTANCE TESTS MUST BE PERFORMED BY A CERTIFIED LIGHTING CONTROLS ACCEPTANCE TEST TECHNICIAN (ATT).
- MECHANICAL SYSTEM ACCEPTANCE TESTS MUST BE PERFORMED BY A CERTIFIED MECHANICAL ATT FOR PROJECTS SUBMITTED ON OR AFTER OCTOBER 1, 2021.
- ENVELOPE AND PROCESS EQUIPMENT ACCEPTANCE TESTS SHALL BE PERFORMED BY THE INSTALLING CONTRACTOR, ENGINEER/ARCHITECT OF RECORD OR THE OWNER'S AGENT.
- A LISTING OF CERTIFIED ATT CAN BE FOUND AT:
HTTPS://WWW.ENERGY.CA.GOV/PROGRAMS-AND-TOPICS/PROGRAMS/ACCEPTANCE-TEST-TECHNICIAN-CERTIFICATION-PROVIDER-PROGRAM/ACCEPTANCE.
- THE ACCEPTANCE TESTING PROCEDURES MUST BE REPEATED, AND DEFICIENCIES MUST BE CORRECTED BY THE BUILDER OR INSTALLING CONTRACTOR UNTIL THE CONSTRUCTION/INSTALLATION OF THE SPECIFIED SYSTEMS CONFORM AND PASS THE REQUIRED ACCEPTANCE CRITERIA.
- PROJECT INSPECTORS WILL COLLECT THE FORMS TO CONFIRM THAT THE REQUIRED ACCEPTANCE TESTS HAVE BEEN COMPLETED.

GENERAL NOTES CONT.

21. PROVIDE COPPER CONDUCTORS ONLY.
22. PROVIDE TYPE "THHN" OR "THWN" WIRES ONLY.
23. MOUNT RECEPTACLES, TELEPHONES AND J-BOXES LOCATED IN WALL AT +18" FROM FLOOR LINE TO CENTER LINE OF OUTLET UNLESS OTHERWISE NOTED ON PLAN.
24. MOUNT LIGHT SWITCHES, T-STATS, ETC. AT +48" UNLESS OTHERWISE NOTED.
25. PROVIDE "U.L. APPROVED" OR "U.L. LISTED" ELECTRICAL EQUIPMENT ONLY.
26. PROVIDE APPROVED PADLOCKING DEVICE FOR EACH AND EVERY CIRCUIT BREAKER IN EVERY PANELBOARD. (THESE ARE IN ADDITION TO ANY HANDLE LOCKOFFS INDICATED ON PANEL SCHEDULES.)
27. FURNISH, INSTALL AND CONNECT ALL LAMPS.
28. PROVIDE WHEREVER NECESSARY ALL ADDITIONAL BACKING, BLOCKING AND SUPPORTS FOR LIGHT FIXTURES AND CONDUITS.
29. ALL CONDUCTORS THAT ARE #12 AWG AND SMALLER SHALL BE SOLID, AND ABIDE BY THE SPECIFICATIONS OF LAUSD SECTION 26 0519.

APPLICABLE CODE: 2022 CBC

EQUIPMENT ANCHORAGE NOTES

ALL MECHANICAL, PLUMBING, AND ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE DSA-APPROVED CONSTRUCTION DOCUMENTS. THE FOLLOWING COMPONENTS 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, 16, & 30:

1. ALL PERMANENT EQUIPMENT AND COMPONENTS.
2. TEMPORARY, MOVABLE OR MOBILE EQUIPMENT THAT IS PERMANENTLY ATTACHED (E.G. HARD WIRED) TO THE BUILDING UTILITY SERVICES SUCH AS ELECTRICITY, GAS, OR WATER. "PERMANENTLY ATTACHED" SHALL INCLUDE ALL ELECTRICAL CONNECTIONS EXCEPT PLUGS FOR 110/220 VOLT RECEPTACLES HAVING FLEXIBLE 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 BUT NEED NOT DEMONSTRATE DESIGN COMPLIANCE WITH THE REFERENCES NOTED ABOVE. THESE COMPONENTS SHALL HAVE FLEXIBLE CONNECTIONS PROVIDED BETWEEN THE COMPONENT AND ASSOCIATED DUCTWORK, PIPING, AND CONDUIT. FLEXIBLE CONNECTIONS MUST ALLOW MOVEMENT IN BOTH TRANSVERSE AND LONGITUDINAL DIRECTIONS.

- A. COMPONENTS WEIGHING LESS THAN 400 POUNDS AND HAVING 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 20 POUNDS, OR IN THE CASE OF DISTRIBUTED SYSTEMS, LESS THAN 5 POUNDS PER FOOT, WHICH ARE SUSPENDED FROM A ROOF OR FLOOR OR HUNG FROM A WALL.

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

APPLICABLE CODE: 2022 CBC

PIPING, DUCTWORK, AND ELECT. DISTRIBUTION SYSTEM BRACING NOTE:

PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7-16 SECTION 13.3 AS DEFINED IN ASCE 7-16 SECTIONS 13.6.5, 13.6.6, 13.6.7, 13.6.8; AND 2022 CBC, SECTIONS 1617A.1.24, 1617A.1.25 AND 1617A.1.26.

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

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

MP ☐ MD ☐ OPTION 1: DETAILED ON THE APPROVED DRAWINGS WITH PROJECT SPECIFIC NOTES AND DETAILS
PP ☐ E ☒

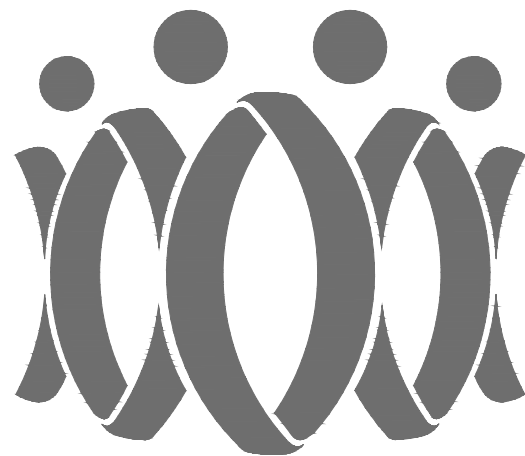
MP ☐ MD ☐ OPTION 2: SHALL COMPLY WITH HCAI PREAPPROVAL (OPM#) # _____.
PP ☐ E ☐

SCOPE OF WORK

ADA RESTROOM COMPLIANCE. PROVIDE POWER TO NEW EQUIPMENT. REUSE EXISTING PANELS. REPLACE (E) LIGHTING WITH LED LIGHTING IN SAME PLACE. 1 TO 1 REPLACEMENT, THEREFORE TITLE 24 EXEMPT. BOYS/GIRL'S RESTROOM TO BE EQUIPPED WITH KEY SWITCH AND CEILING OCCUPANCY SENSORS. STAFF RESTROOMS TO BE EQUIPPED WITH WALL OCCUPANCY SENSORS.

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architecture planning interiors

HEADQUARTERS OFFICE:

99 S. Lake Avenue, Suite 300
Pasadena, CA 91101
Phone: 323.543.8300
E-Mail: fm-pasadena@flewelling-moody.com

ANTELOPE VALLEY OFFICE:

1035 West Lancaster Boulevard
Lancaster, California 93534
Phone: 661.949.0771
E-Mail: fm-lancaster@flewelling-moody.com

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CONSULTANT



PACIFIC ENGINEERS GROUP
Consulting MEPP Engineers
1108 W. Magnolia Blvd., Suite A
Burbank, CA 91506
(818) 859-7081 Y25-033
info@pegcgroup.net

Drawn by: HY

Check by: AF

Revisions

No.	Date	Description

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PASADENA UNIFIED SCHOOL DISTRICT

MARSHALL FUNDAMENTAL SCHOOL
TOILET ROOMS MODERNIZATION & ADA UPGRADES

990 ALLEN AVE PASADENA, CA 91104

Drawing Title

ELECT. SYMBOL LIST,
NOTES, LIGHTING
FIXTURE SCHEDULE &
ABBREVIATIONS

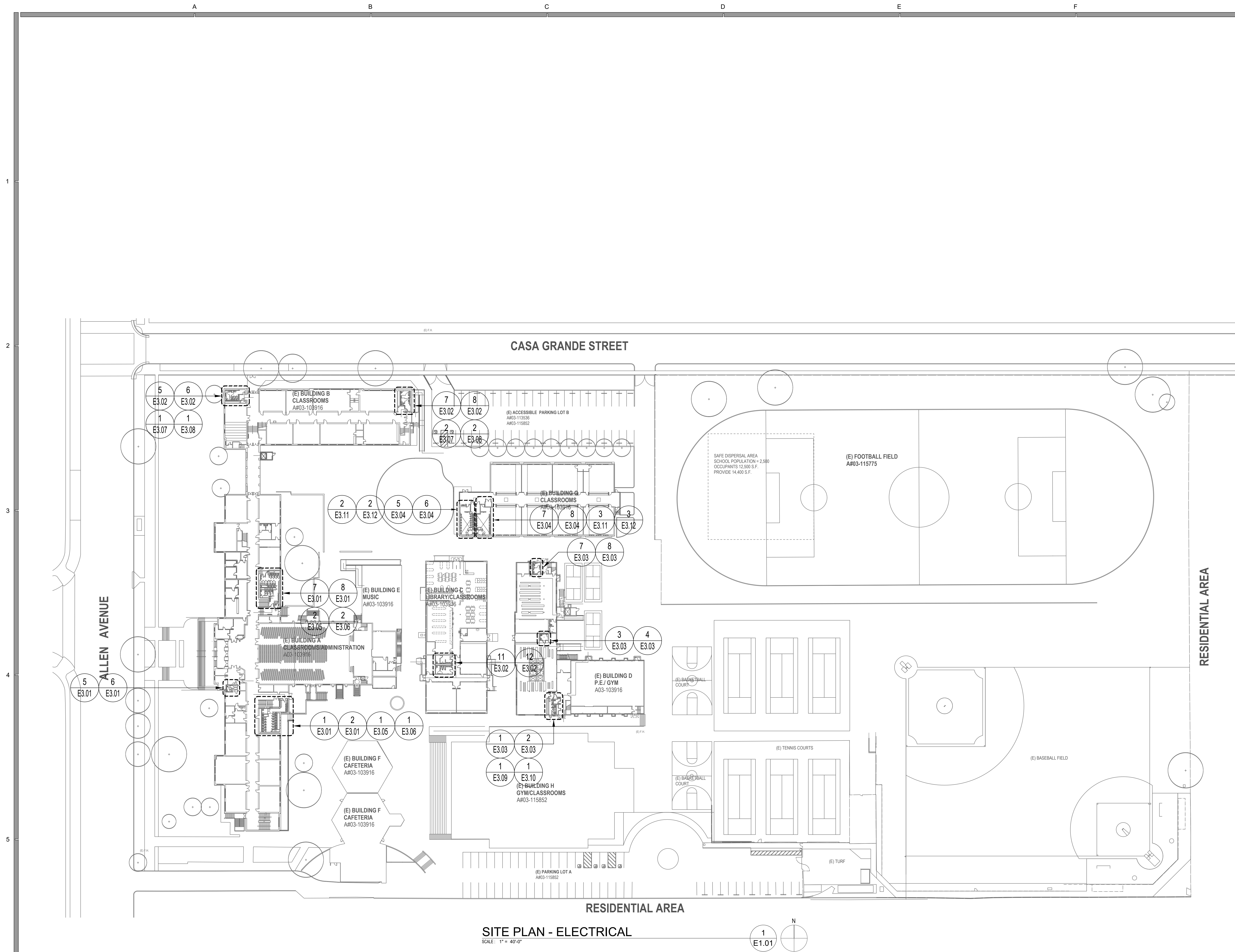
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Sheet No.

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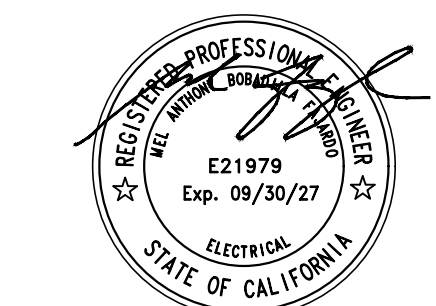
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Pasadena, CA 91101
Phone: 323.543.8300
E-Mail: fm-pasadena@flewwelling-moody.com

ANTELOPE VALLEY OFFICE:
1035 West Lancaster Boulevard
Lancaster, California 93534
Phone: 661.949.0771
E-Mail: fm-lancaster@flewwelling-moody.com

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PACIFIC ENGINEERS GROUP
Consulting MEPF Engineers
1108 W. Magnolia Blvd., Suite A
Burbank, CA 91506
(818) 859-7081 Y25-033
info@pacificeng.net

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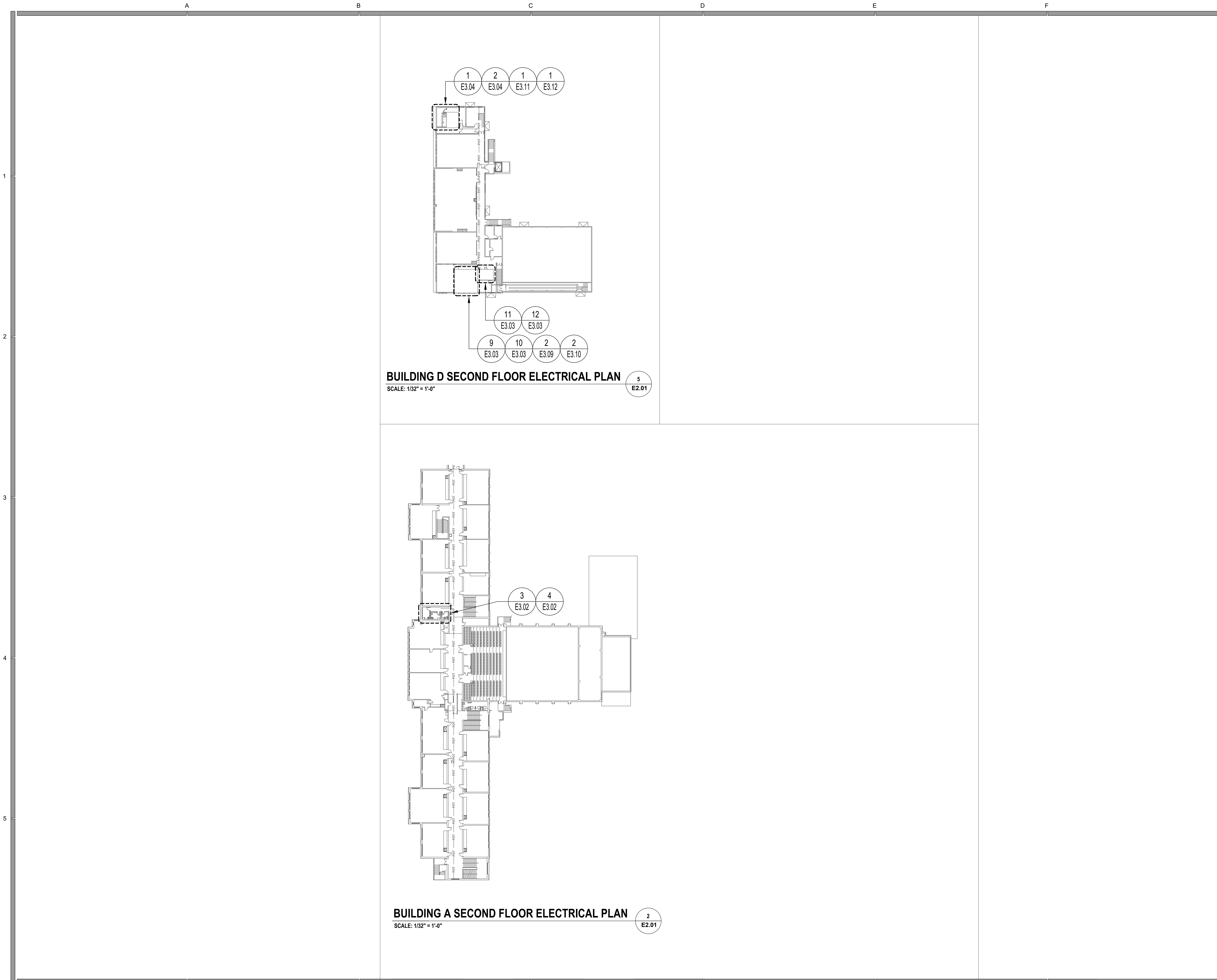
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MARSHALL FUNDAMENTAL SCHOOL
TOILET ROOMS MODERNIZATION & ADA UPGRADES

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Drawing Title

SITE PLAN -
ELECTRICAL

Job No. 3189	Sheet No. E1.01
Date 03/24/2026	



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99 S. Lake Avenue, Suite 300
Pasadena, CA 91101
Phone: 323.543.8300
E-Mail: fm-pasadena@flewellling-moody.com

ANTELOPE VALLEY OFFICE:
1035 West Lancaster Boulevard
Lancaster, California 93534
Phone: 661.949.0771
E-Mail: fm-lancaster@flewellling-moody.com

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PACIFIC ENGINEERS GROUP
Consulting MEPF Engineers
1106 W. Magnolia Blvd., Suite A
Burbank, CA 91506
(818) 859-7081 Y25-033
info@pacificeng.net

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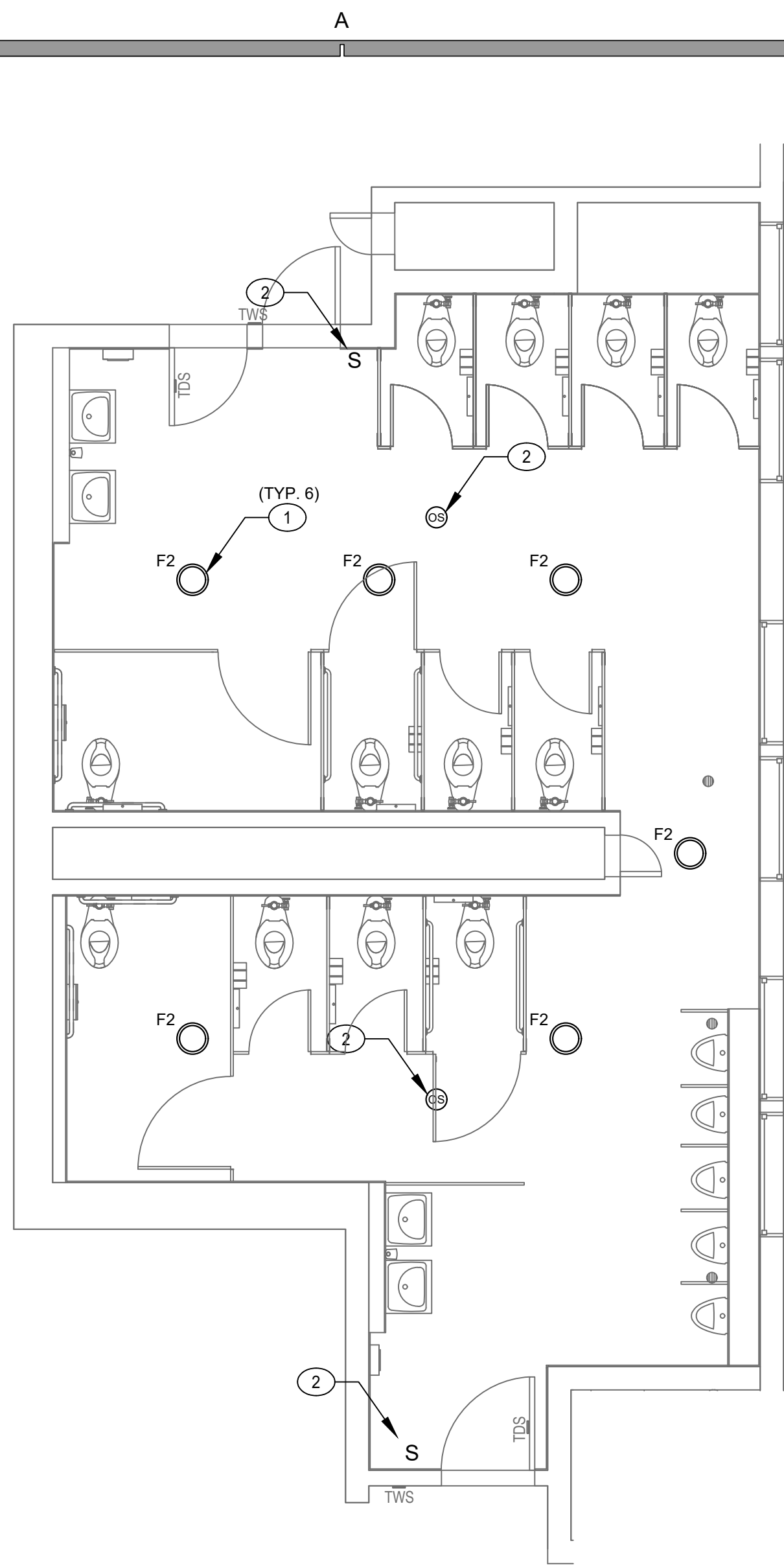
Drawing Title

OVERALL LEVEL 1
ELECTRICAL PLAN

Job No.
3189

Sheet No.
E2.01

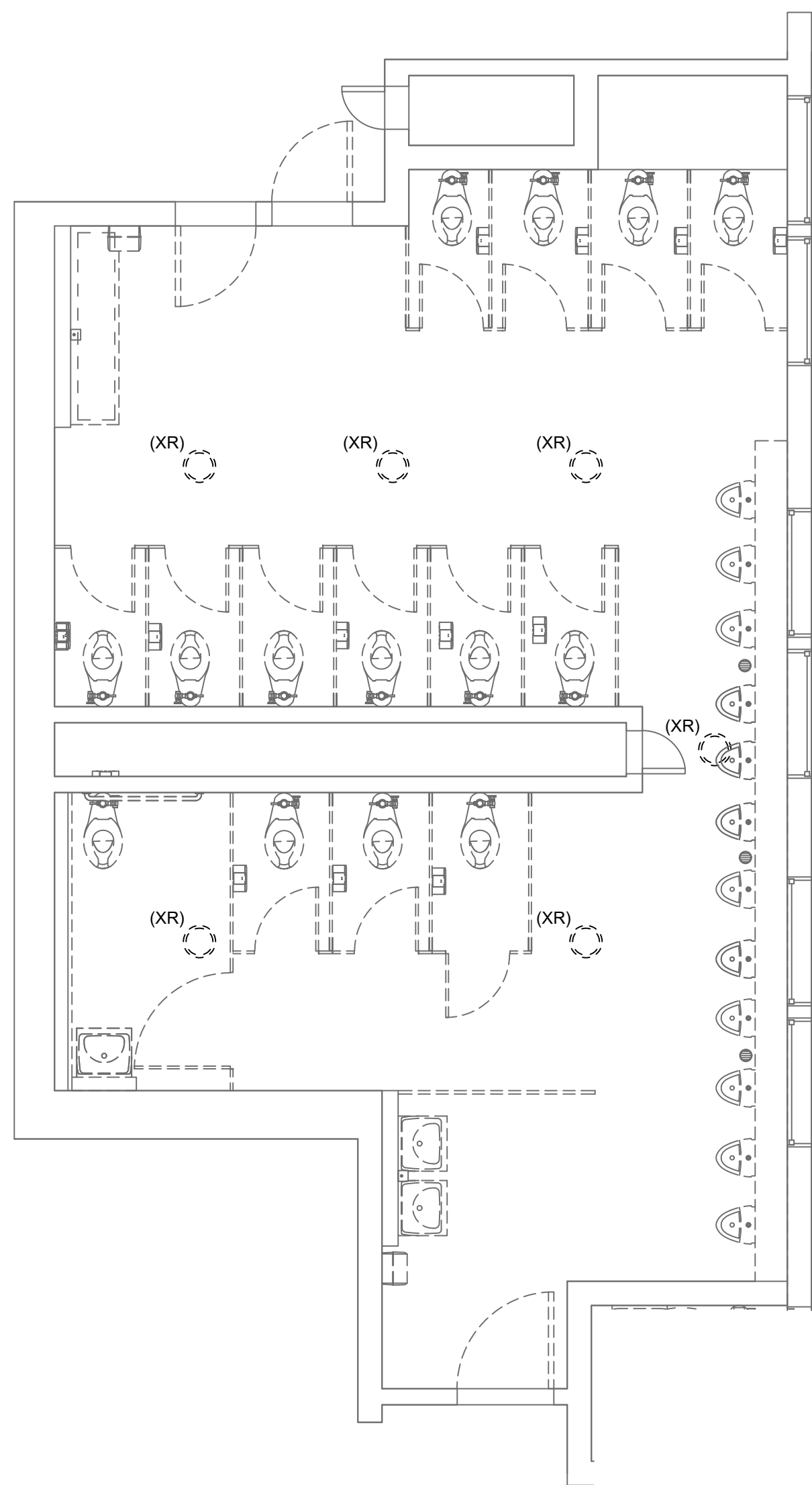
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BLDG A - LEVEL 1 - BOYS RR 122 - ELECTRICAL PLAN

SCALE: 1/4" = 1'-0"

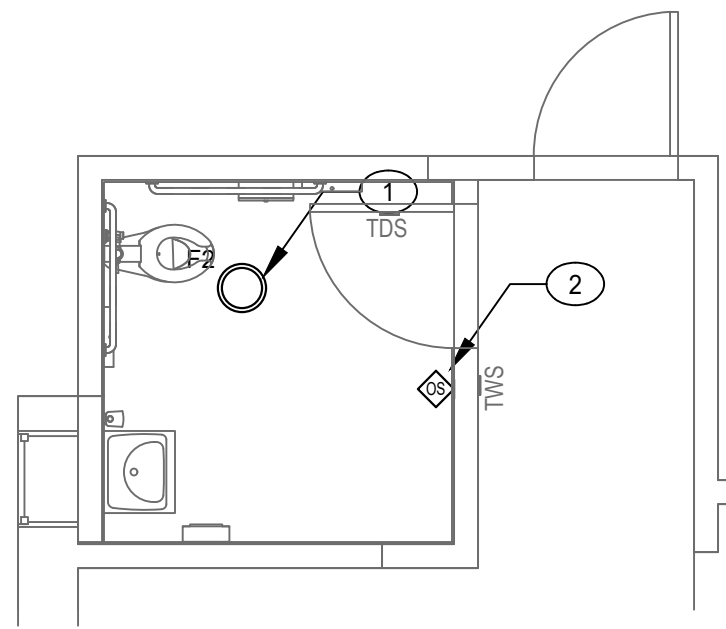
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BLDG A - LEVEL 1 - BOYS RR 122 - DEMOLITION PLAN

SCALE: 1/4" = 1'-0"

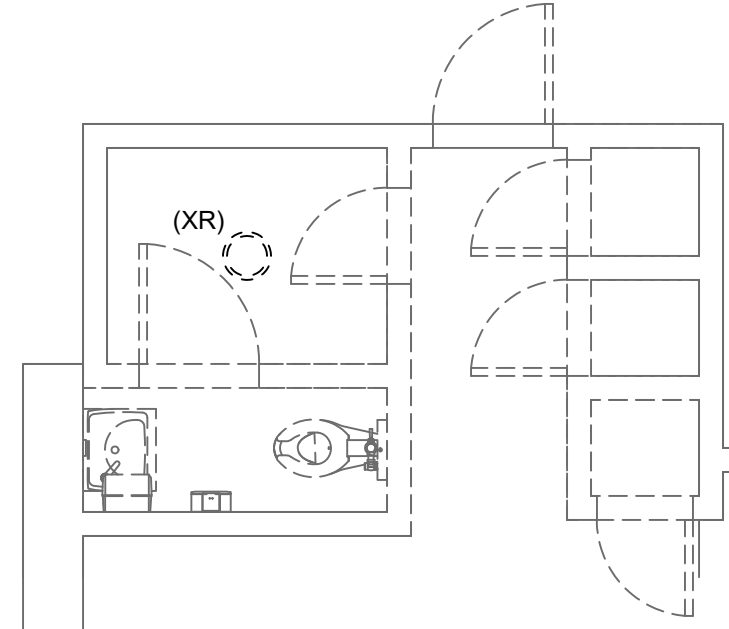
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BLDG A - LEVEL 1 - STAFF 109.2 - ELECTRICAL PLAN

SCALE: 1/4" = 1'-0"

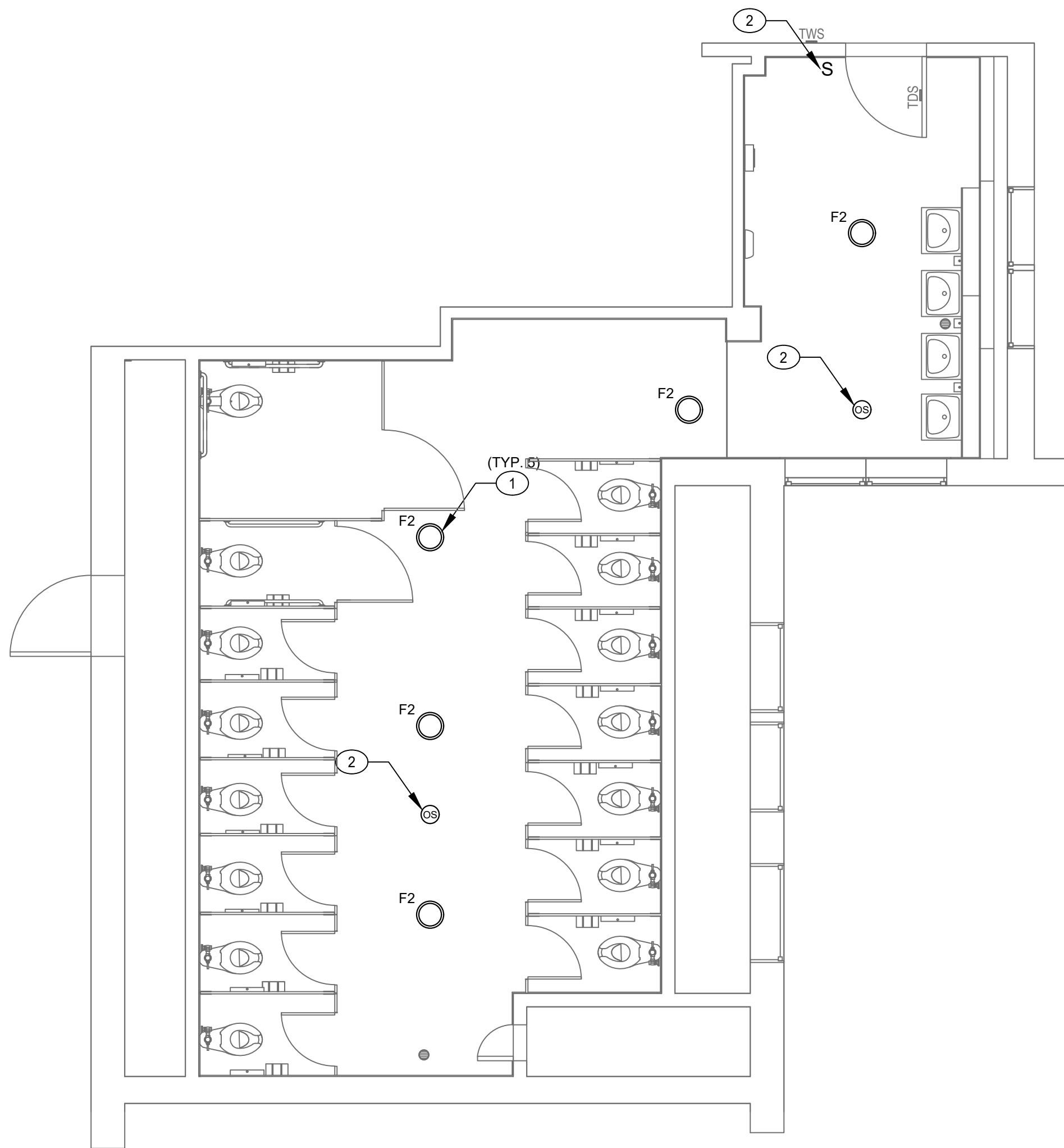
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BLDG A - LEVEL 1 - STAFF 109.2 - DEMOLITION PLAN

SCALE: 1/4" = 1'-0"

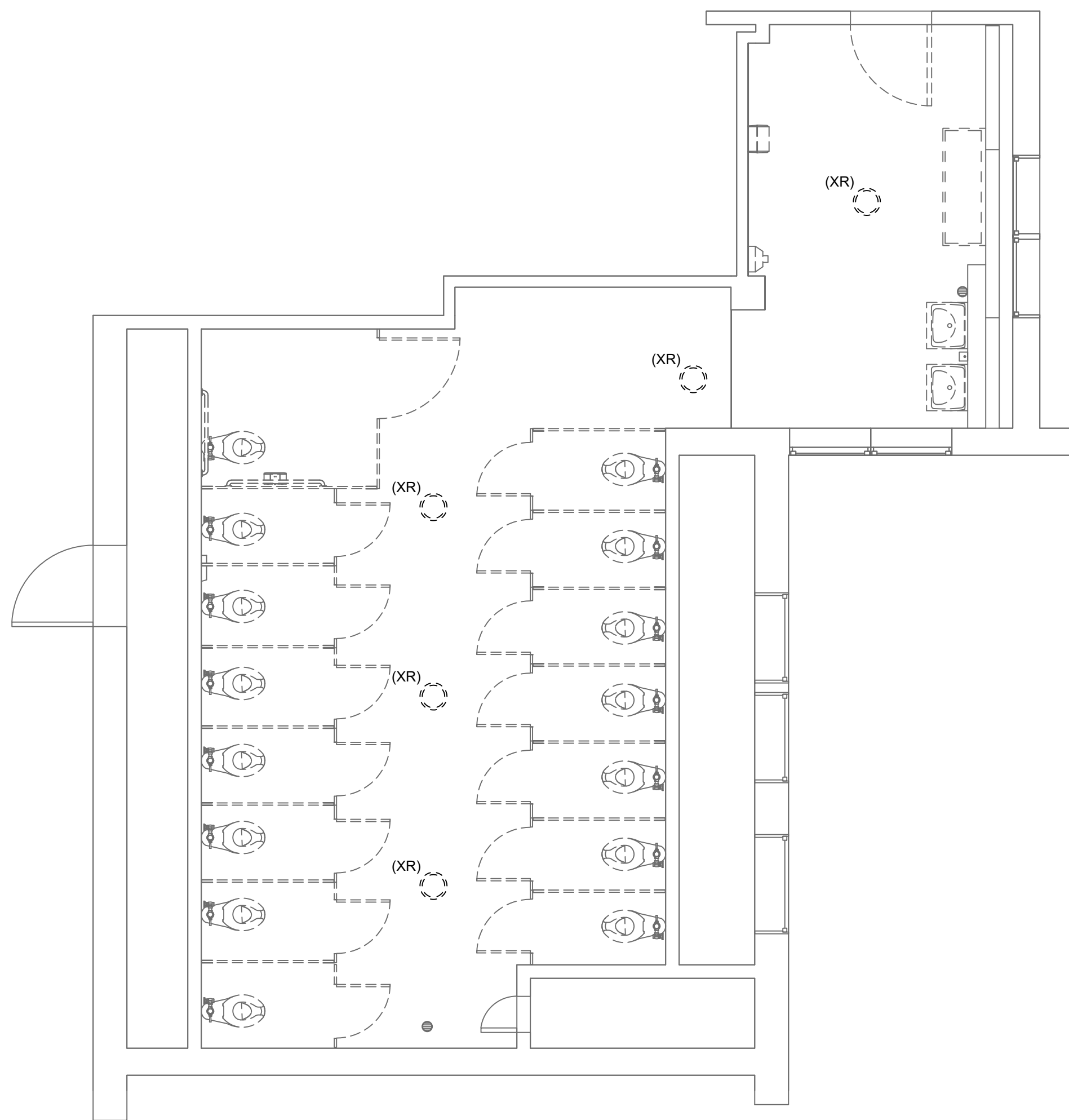
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BLDG A - LEVEL 1 - GIRLS RR 108 - ELECTRICAL PLAN

SCALE: 1/4" = 1'-0"

2
E3.01



BLDG A - LEVEL 1 - GIRLS RR 108 - DEMOLITION PLAN

SCALE: 1/4" = 1'-0"

1
E3.01

GENERAL NOTES:

1. VERIFY EQUIPMENT SPECIFICATIONS, POWER AND INSTALLATION REQUIREMENTS WITH MANUFACTURER TO ENSURE PROPER FIT AND FUNCTION.
2. REFER TO ELECTRICAL LEAD SHEET FOR LEGENDS, ABBREVIATIONS, AND GENERAL NOTES.
3. PROVIDE AND MAINTAIN REQUIRED ACCESS AND WORKING SPACE FOR ALL ELECTRICAL EQUIPMENT. NEC 110.26.
4. COORDINATE EXACT LOCATION AND CONTROL REQUIREMENTS WITH MECHANICAL TRADE PRIOR TO START OF WORK.

KEYED NOTES:

- 1 REPLACE (XR) LIGHT FIXTURE WITH LED FIXTURE IN SAME PLACE. RECONNECT TO EXISTING LIGHTING CIRCUIT.
- 2 CONNECT OCCUPANCY SENSOR/KEY SWITCH TO EXISTING LIGHTING AND NEW EXHAUST FAN. BOTH LIGHTING AND EXHAUST TO BE CONTROLLED BY OCCUPANCY SENSOR.

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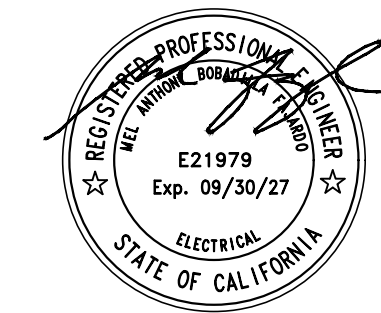
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1035 West Lancaster Boulevard
Lancaster, California 93534
Phone: 661.949.0771
E-Mail: fm-lancaster@flewelling-moody.com

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1108 W. Magnolia Blvd., Suite A
Burbank, CA 91506
(818) 859-7081 Y25-033
info@pacificeng.net

Drawn by: HY

Check by: AF

Revisions

No.	Date	Description

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PASADENA UNIFIED SCHOOL DISTRICT

MARSHALL FUNDAMENTAL SCHOOL
TOILET ROOMS MODERNIZATION & ADA UPGRADES

990 ALLEN AVE PASADENA, CA 91104

Drawing Title

BUILDING A
ENLARGED RESTROOM
ELECTRICAL PLANS

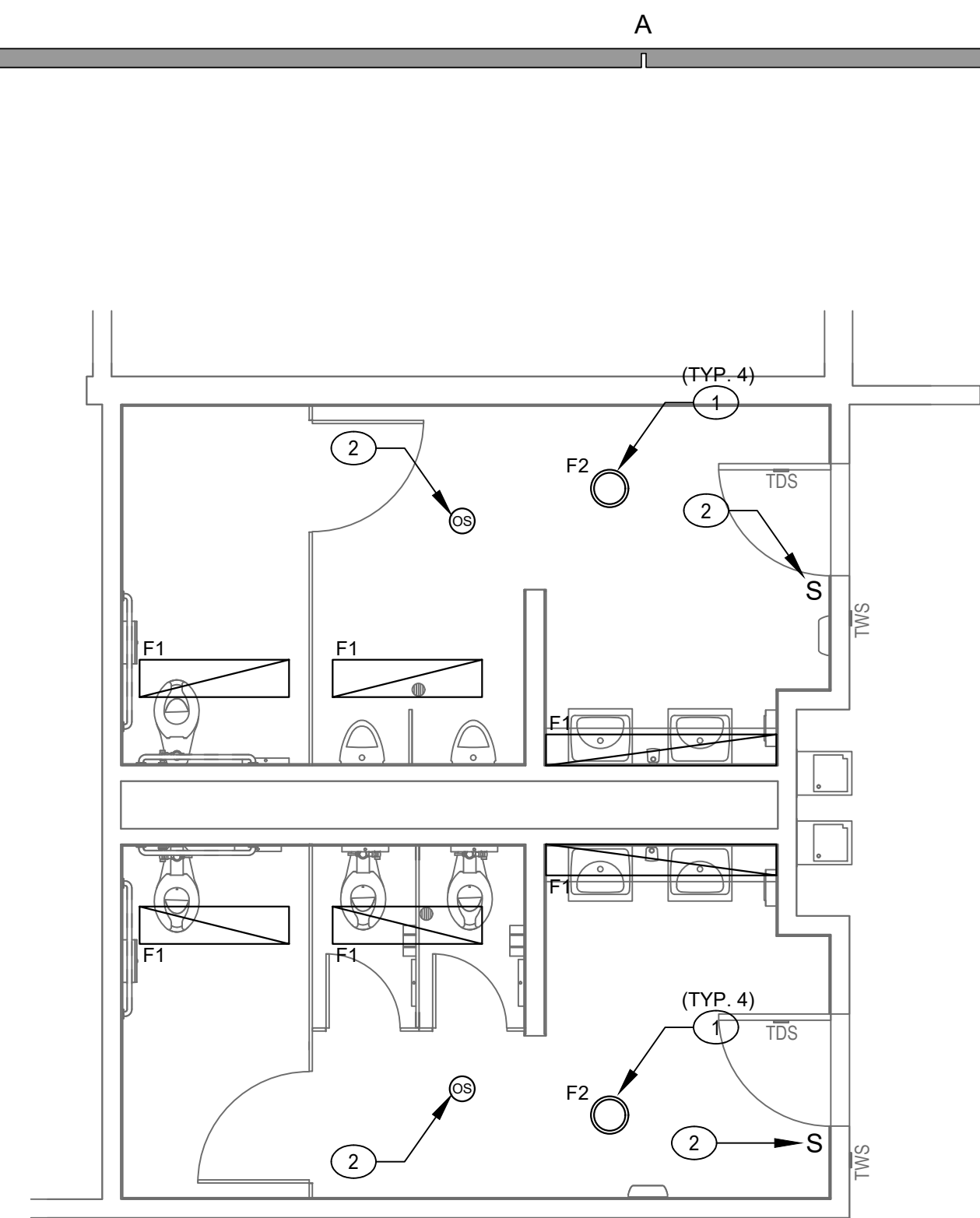
Job No.

3189

Sheet No.

E3.01

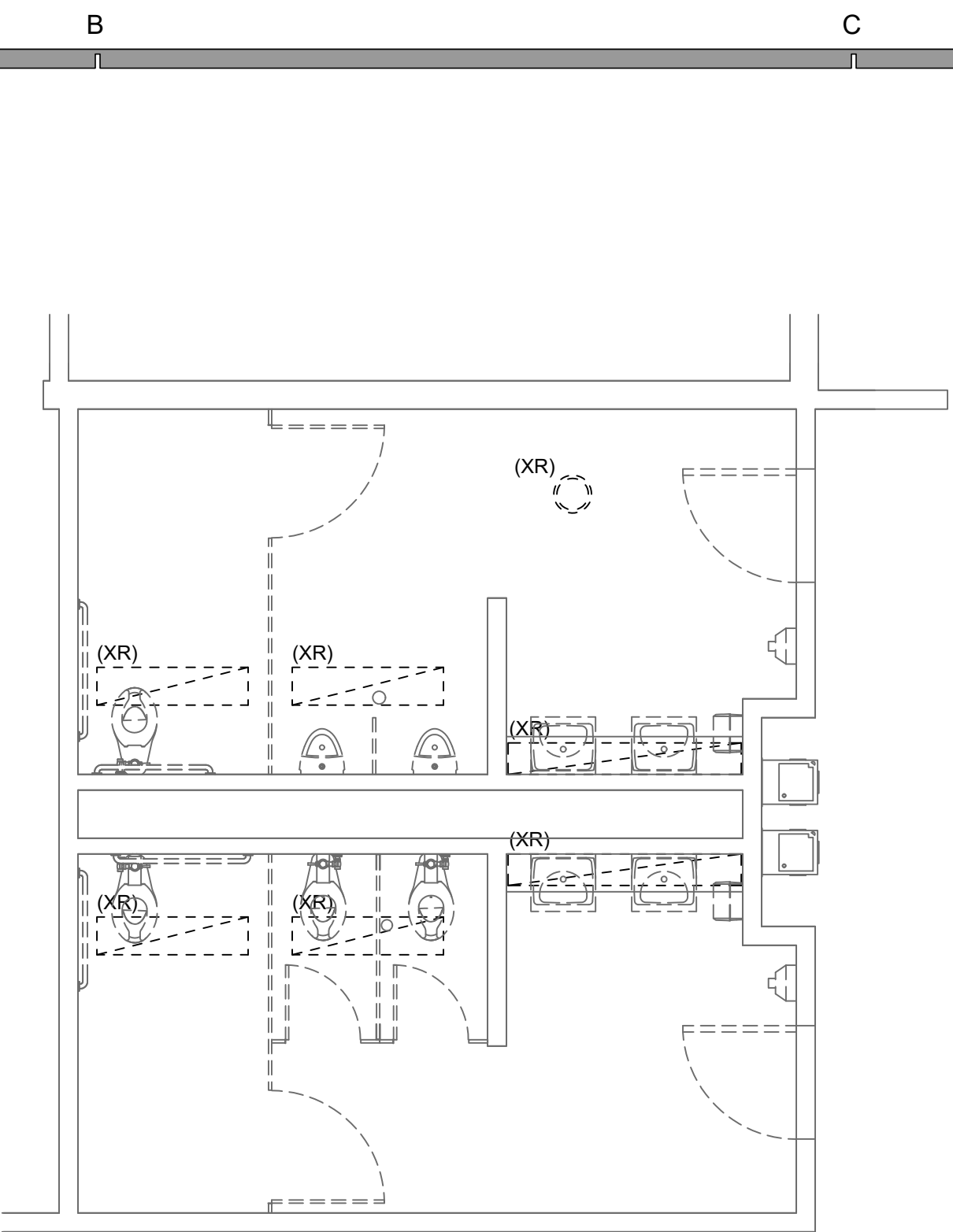
Date
03/24/2026



BLDG C - LEVEL 1 - STAFF RR 155, 157 - ELECTRICAL PLAN

SCALE: 1/4" = 1'-0"

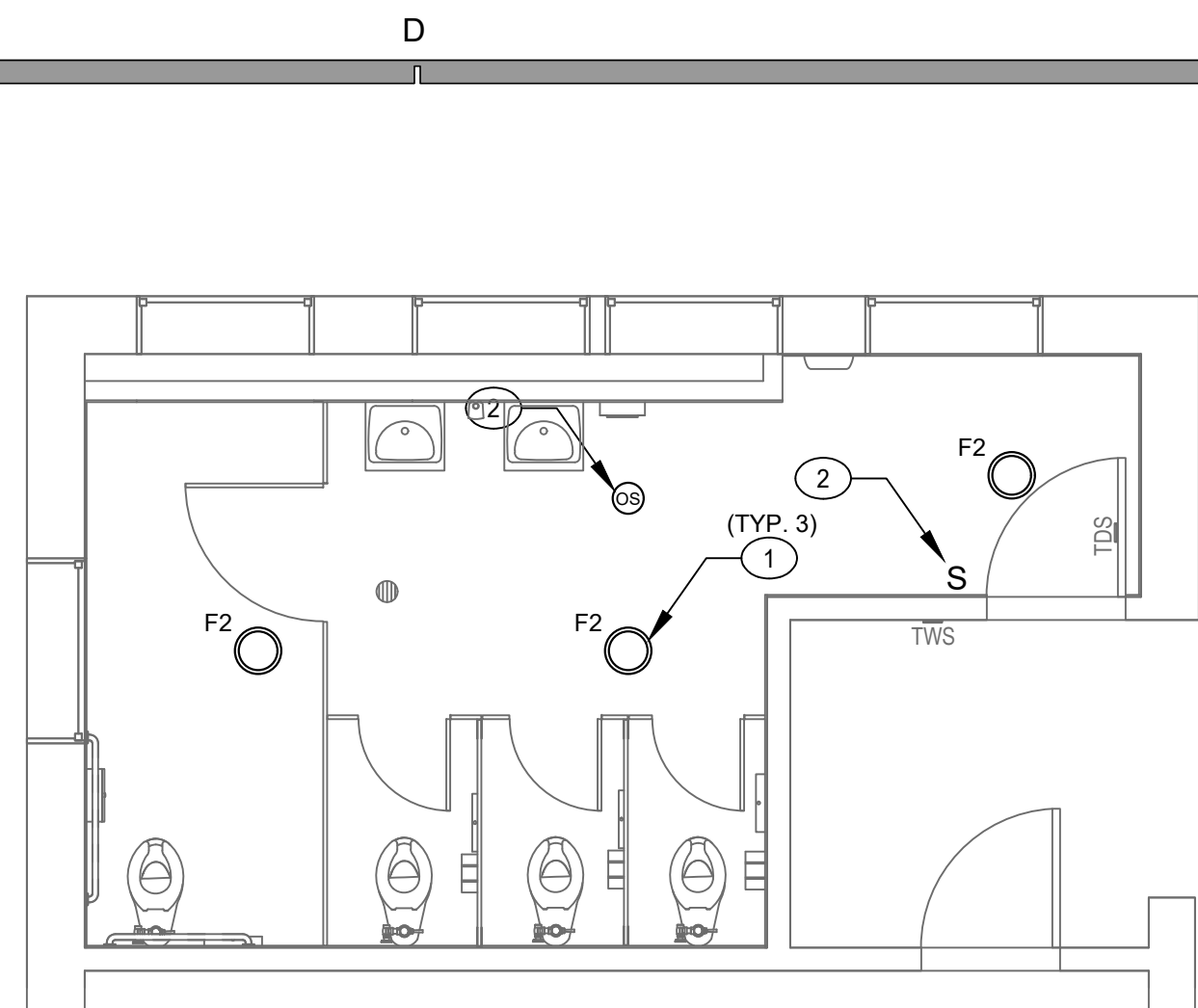
12
E3.02



BLDG C - LEVEL 1 - STAFF RR 155, 157 - DEMOLITION PLAN

SCALE: 1/4" = 1'-0"

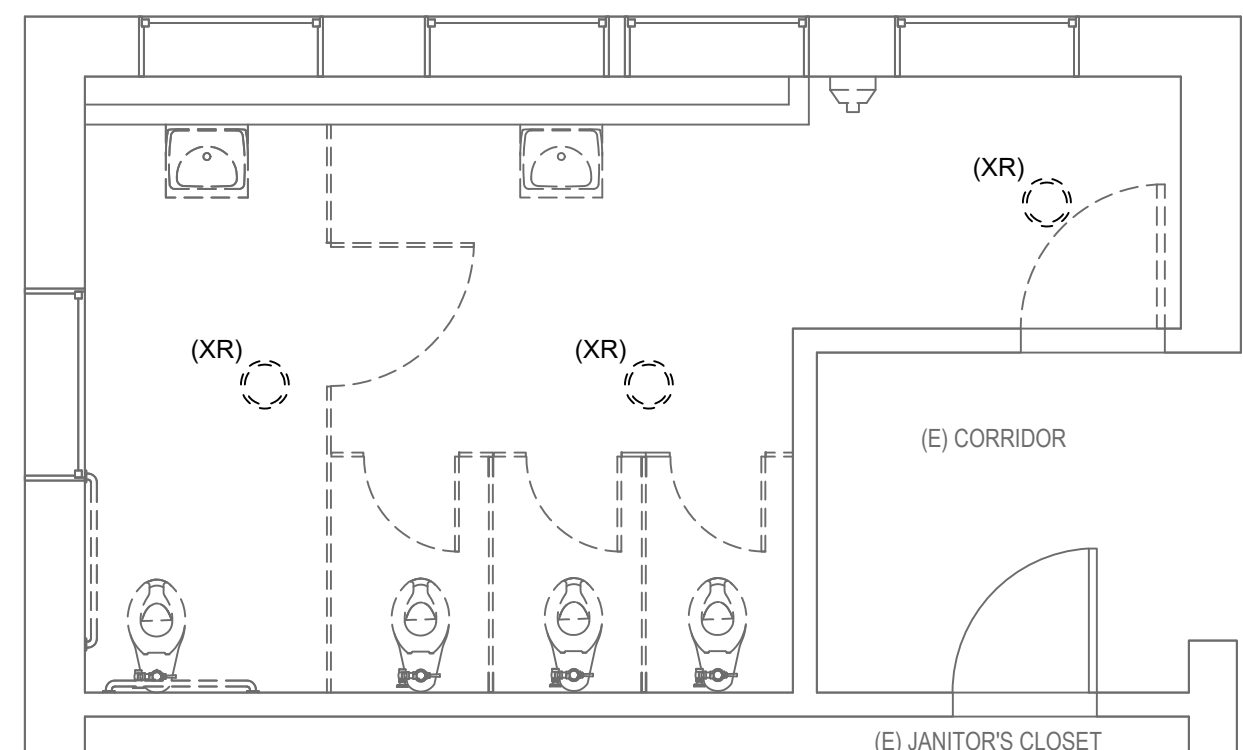
11
E3.02



BLDG B - LEVEL 1 - GIRLS RR 121 - ELECTRICAL PLAN

SCALE: 1/4" = 1'-0"

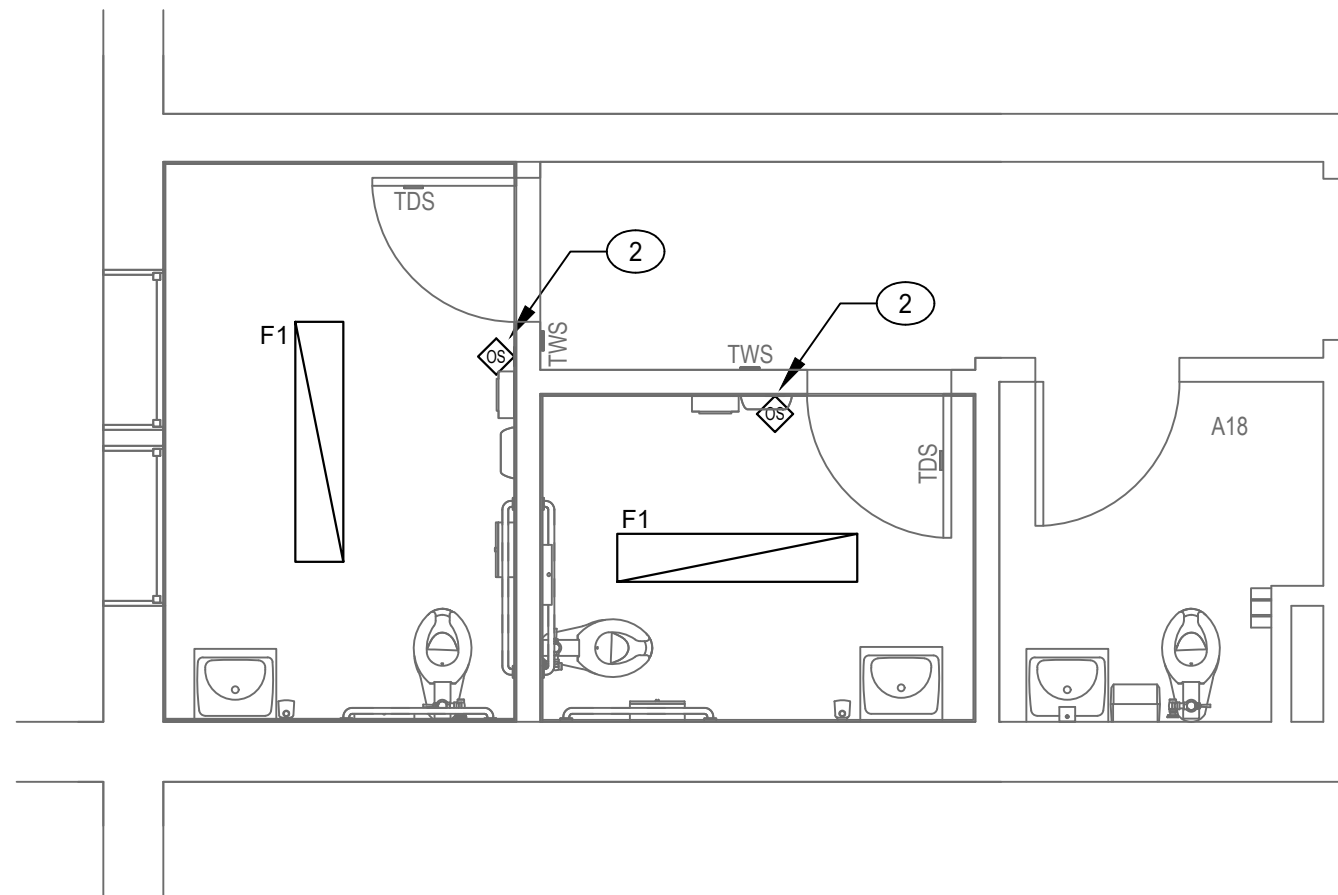
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BLDG B - LEVEL 1 - GIRLS RR 121 - DEMOLITION PLAN

SCALE: 1/4" = 1'-0"

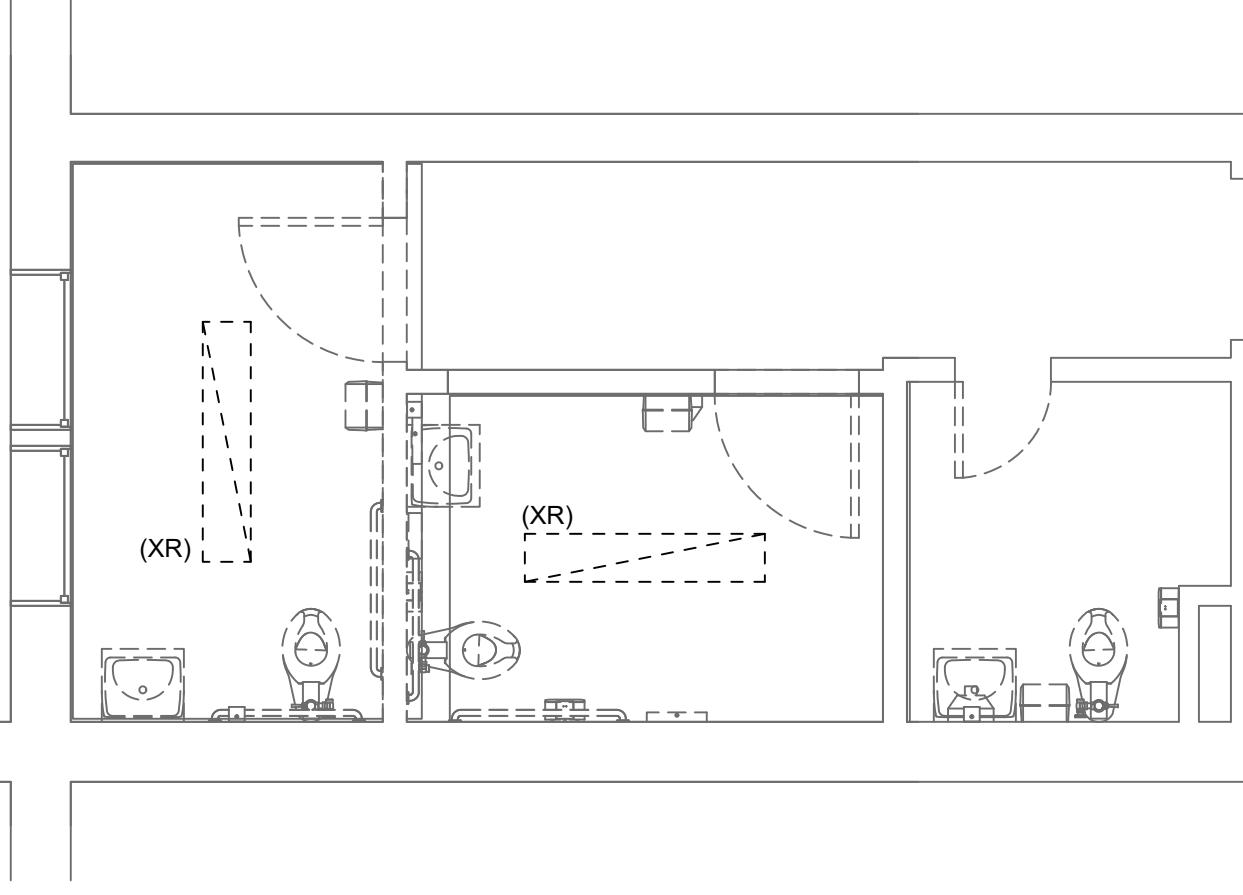
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E3.02



BLDG A - LEVEL 2 - STAFF RR 215.3, 215.4 - ELECTRICAL PLAN

SCALE: 1/4" = 1'-0"

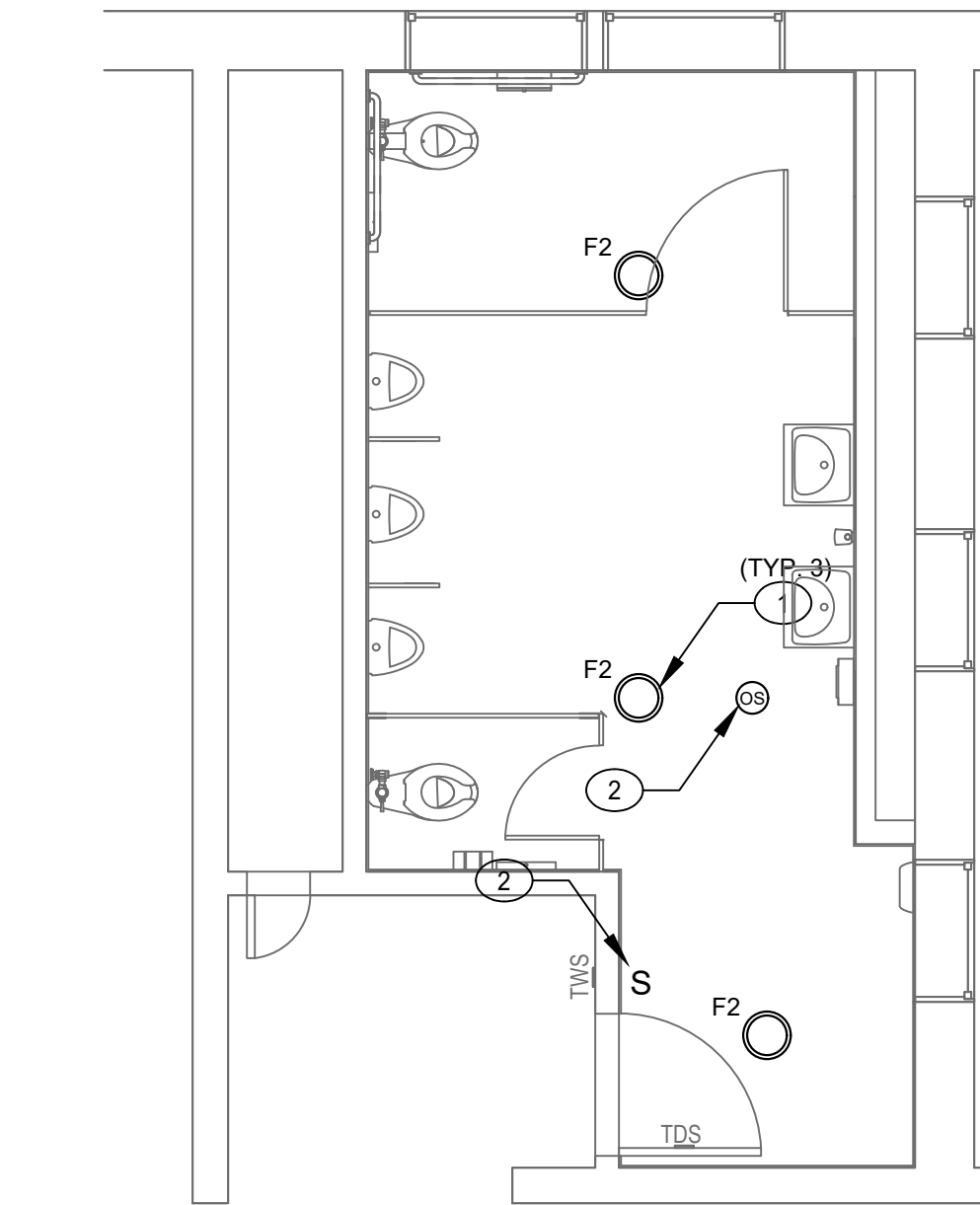
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E3.02



BLDG A - LEVEL 2 - STAFF RR 215.3, 215.4 - DEMOLITION PLAN

SCALE: 1/4" = 1'-0"

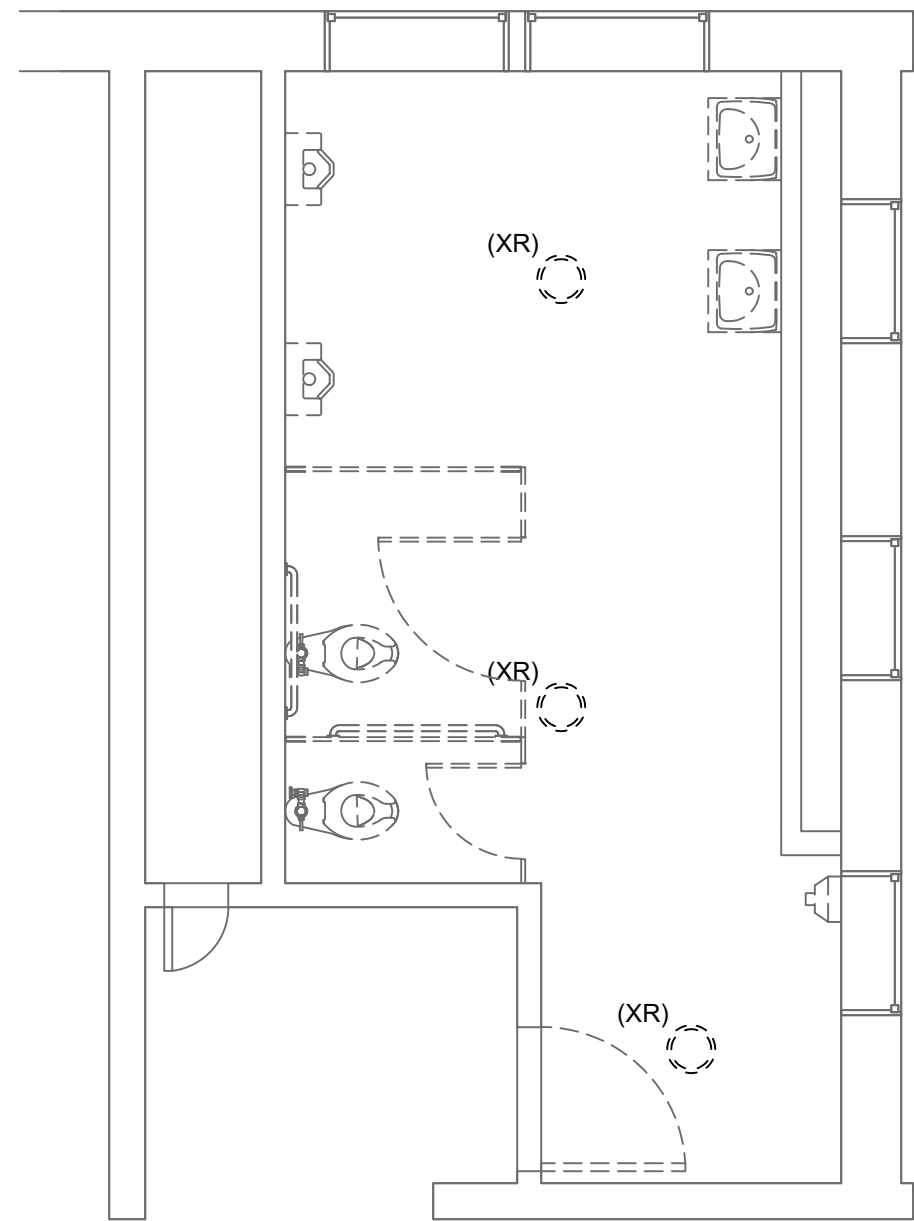
3
E3.02



BLDG B - LEVEL 1 - BOYS RR 133 - ELECTRICAL PLAN

SCALE: 1/4" = 1'-0"

8
E3.02



BLDG B - LEVEL 1 - BOYS RR 133 - DEMOLITION PLAN

SCALE: 1/4" = 1'-0"

7
E3.02

GENERAL NOTES:

1. VERIFY EQUIPMENT SPECIFICATIONS, POWER AND INSTALLATION REQUIREMENTS WITH MANUFACTURER TO ENSURE PROPER FIT AND FUNCTION.
2. REFER TO ELECTRICAL LEAD SHEET FOR LEGENDS, ABBREVIATIONS, AND GENERAL NOTES.
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KEYED NOTES:

- 1 REPLACE (XR) LIGHT FIXTURE WITH LED FIXTURE IN SAME PLACE. RECONNECT TO EXISTING LIGHTING CIRCUIT.
- 2 CONNECT OCCUPANCY SENSOR/KEY SWITCH TO EXISTING LIGHTING AND NEW EXHAUST FAN. BOTH LIGHTING AND EXHAUST TO BE CONTROLLED BY OCCUPANCY SENSOR.

AGENCY

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-125519 INC:
REVIEWED FOR
SS ☒ FLS ☒ ACS ☒
DATE: 06/11/2026



FLEWELLING & MOODY
architecture planning interiors

HEADQUARTERS OFFICE:

99 S. Lake Avenue, Suite 300
Pasadena, CA 91101
Phone: 323.543.8300
E-Mail: fm-pasadena@flewelling-moody.com

ANTELOPE VALLEY OFFICE:

1035 West Lancaster Boulevard
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Phone: 661.949.0771
E-Mail: fm-lancaster@flewelling-moody.com

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PASADENA UNIFIED SCHOOL DISTRICT

MARSHALL FUNDAMENTAL SCHOOL TOILET ROOMS MODERNIZATION & ADA UPGRADES

990 ALLEN AVE PASADENA, CA 91104

Drawing Title

BUILDINGS A, B, & C
ENLARGED RESTROOM
ELECTRICAL PLANS

Job No.

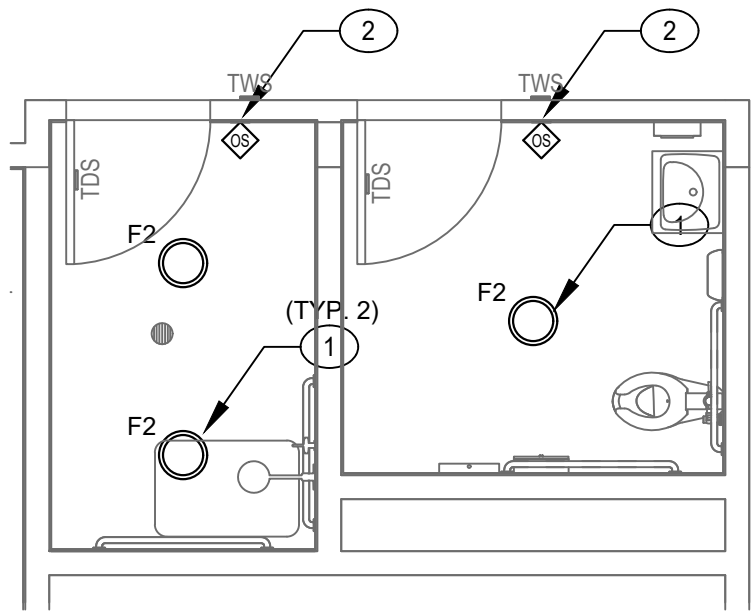
Sheet No.

3189

Date

03/24/2026

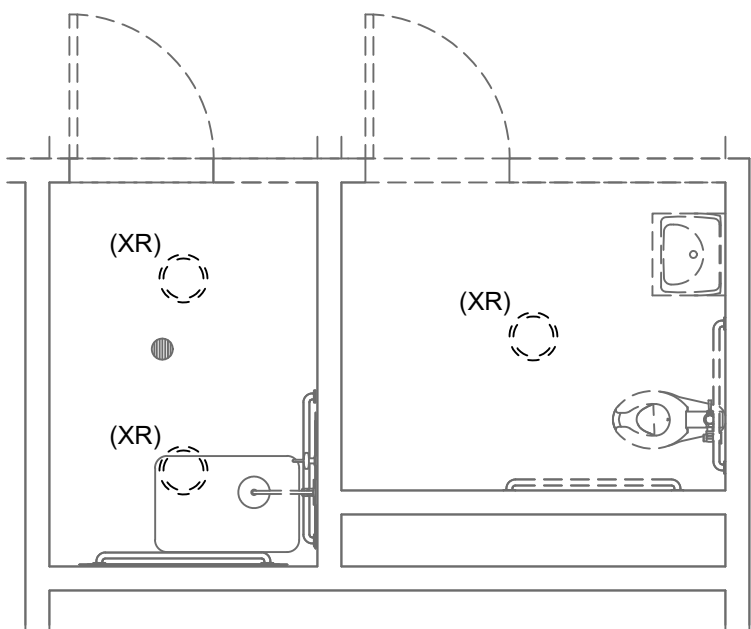
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BLDG D - LEVEL 2 - WOMENS RR, SHOWER 242.1, 242.2 - ELECTRICAL PLAN

SCALE: 1/4" = 1'-0"

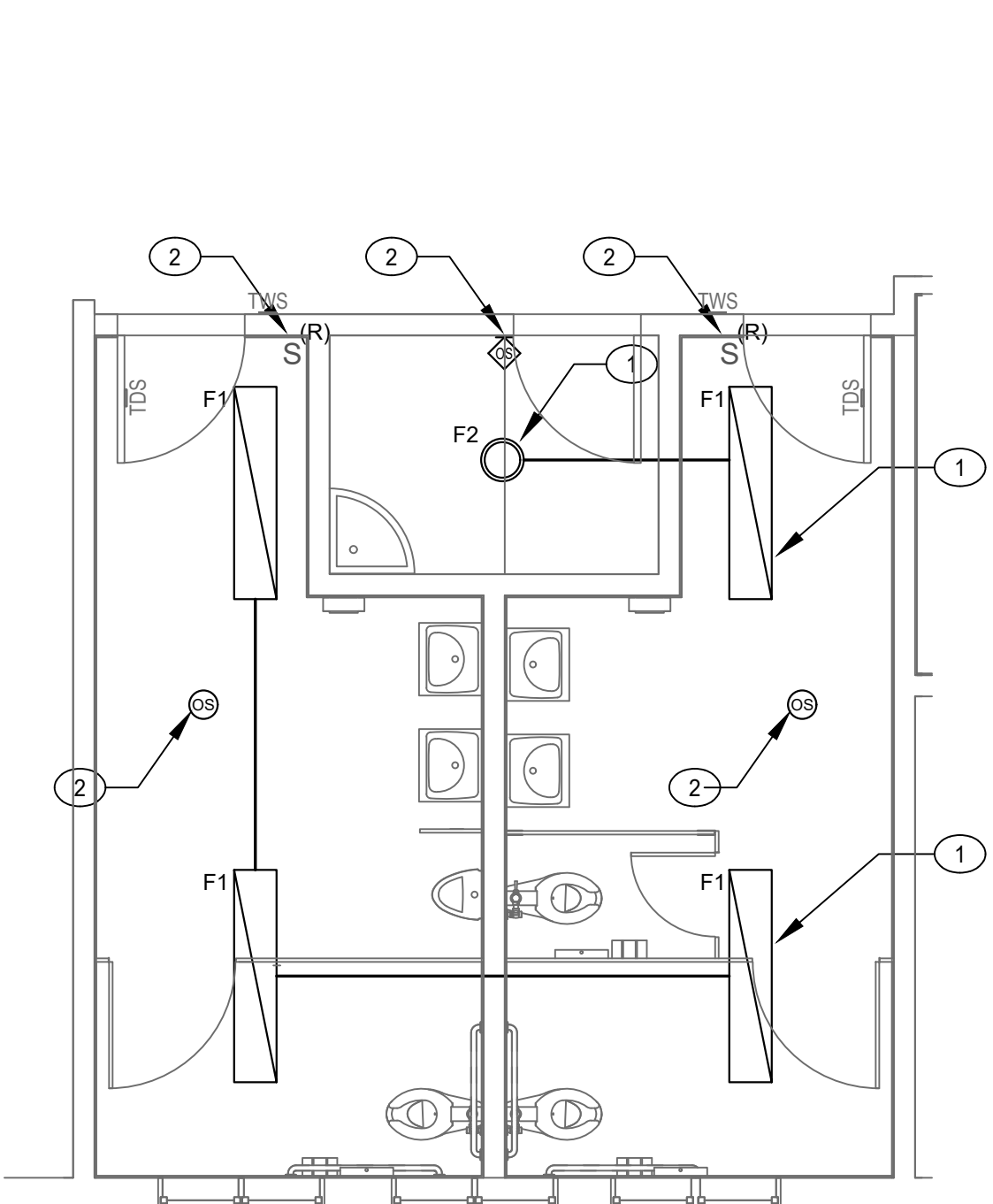
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E3.03



BLDG D - LEVEL 2 - WOMENS RR, SHOWER 242.1, 242.2 - DEMOLITION PLAN

SCALE: 1/4" = 1'-0"

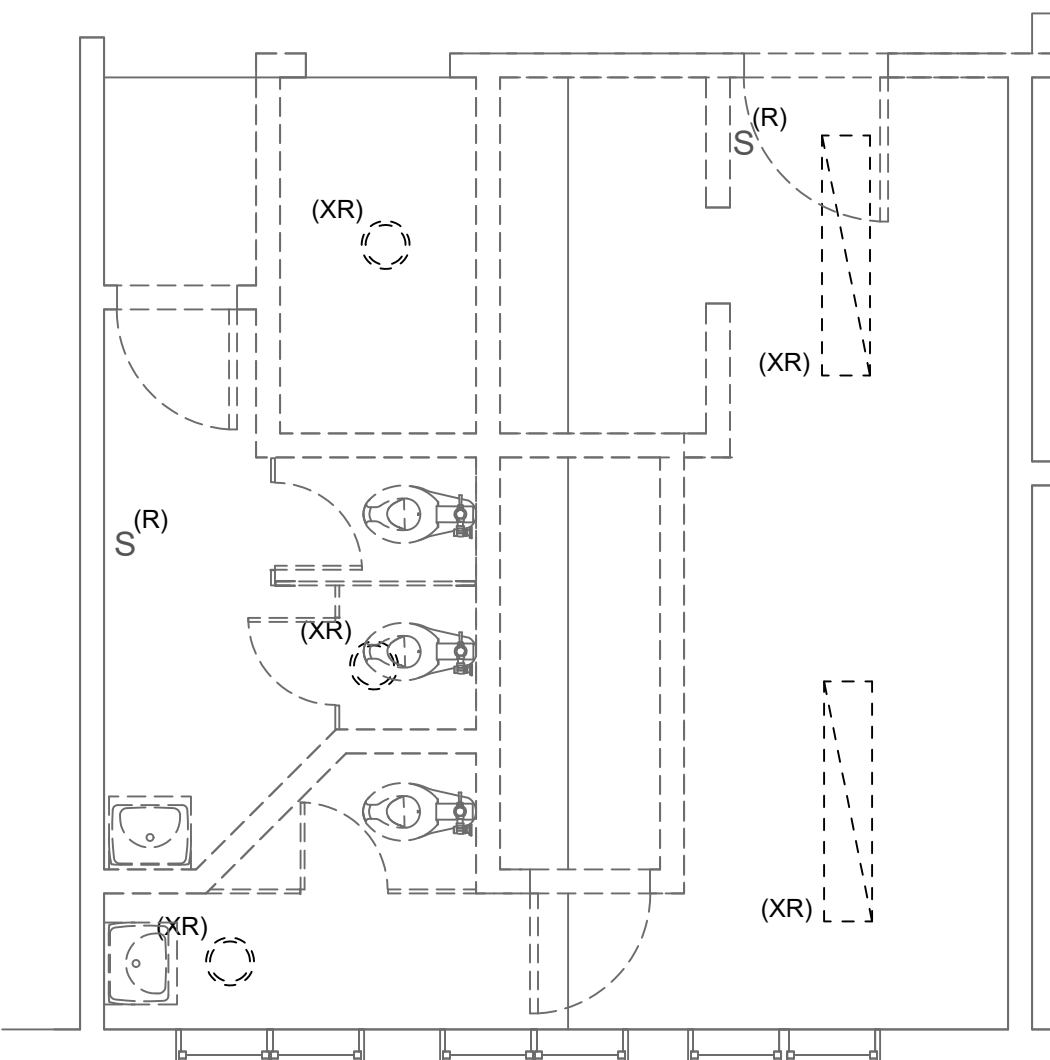
11
E3.03



BLDG D - LEVEL 2 - BOYS RR 241.3, GIRLS RR 241.1 - ELECTRICAL PLAN

SCALE: 1/4" = 1'-0"

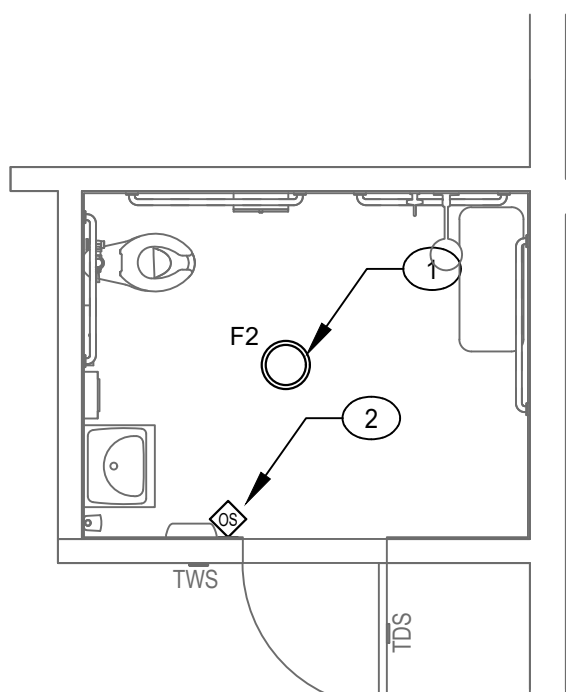
10
E3.03



BLDG D - LEVEL 2 - BOYS RR 241.3, GIRLS RR 241.1 - DEMOLITION PLAN

SCALE: 1/4" = 1'-0"

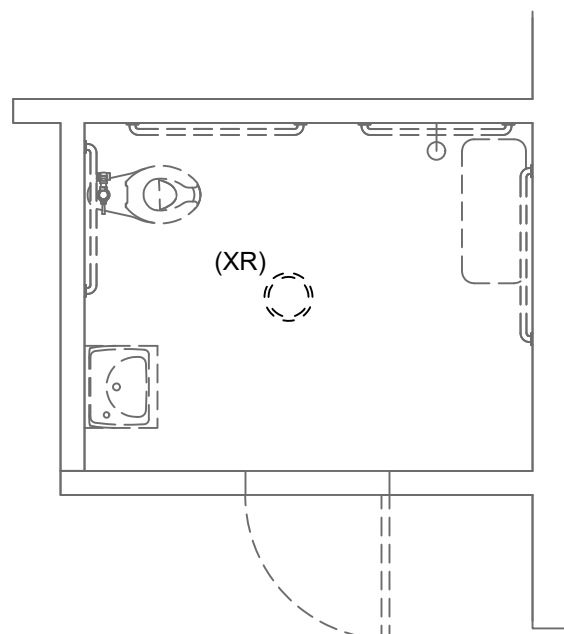
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E3.03



BLDG D - LEVEL 1 - STAFF 92.1 - ELECTRICAL PLAN

SCALE: 1/4" = 1'-0"

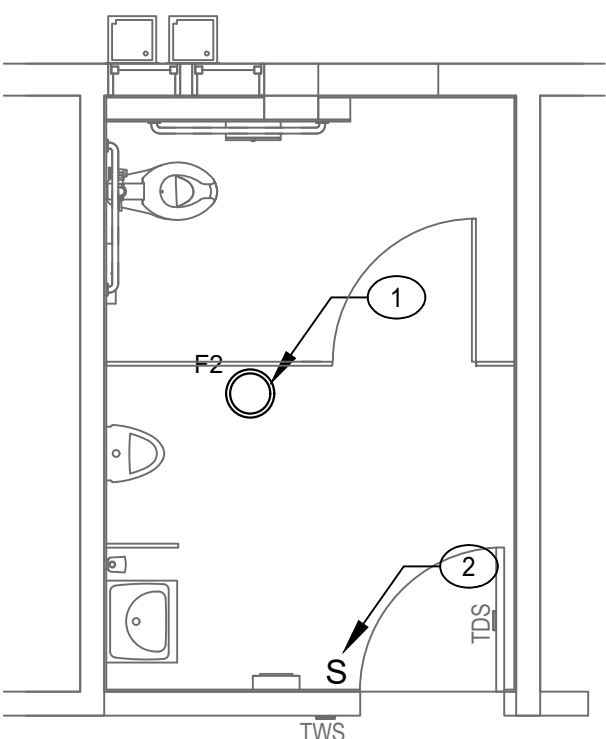
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E3.03



BLDG D - LEVEL 1 - STAFF 92.1 - DEMOLITION PLAN

SCALE: 1/4" = 1'-0"

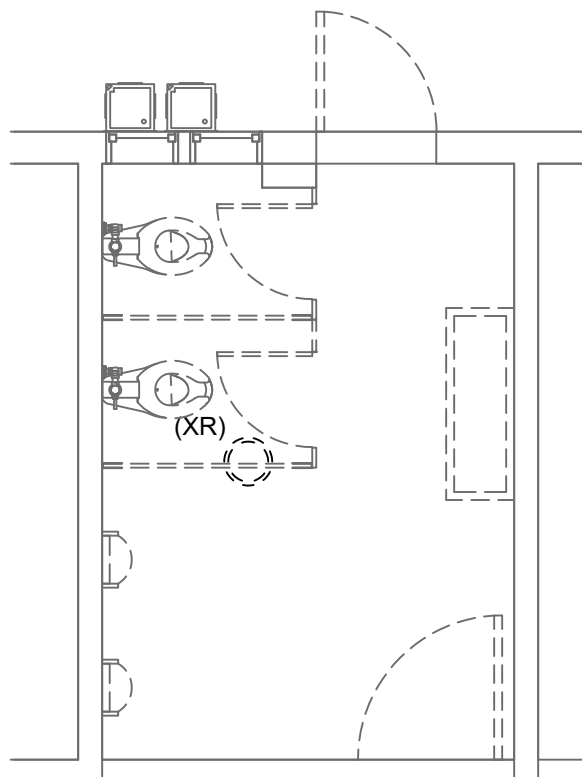
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E3.03



BLDG D - LEVEL 1 - BOYS RR 99 - ELECTRICAL PLAN

SCALE: 1/4" = 1'-0"

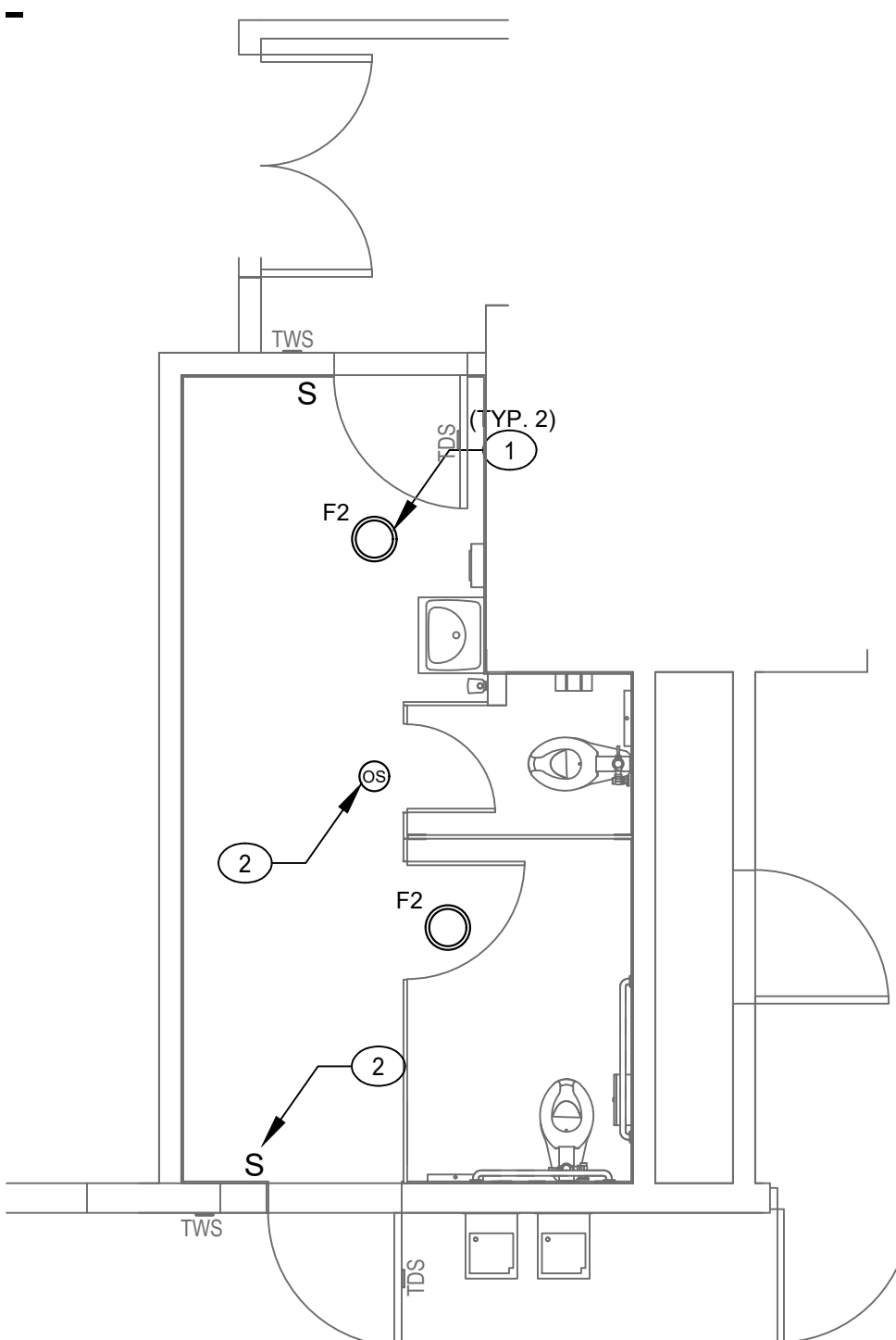
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E3.03



BLDG D - LEVEL 1 - BOYS RR 99 - DEMOLITION PLAN

SCALE: 1/4" = 1'-0"

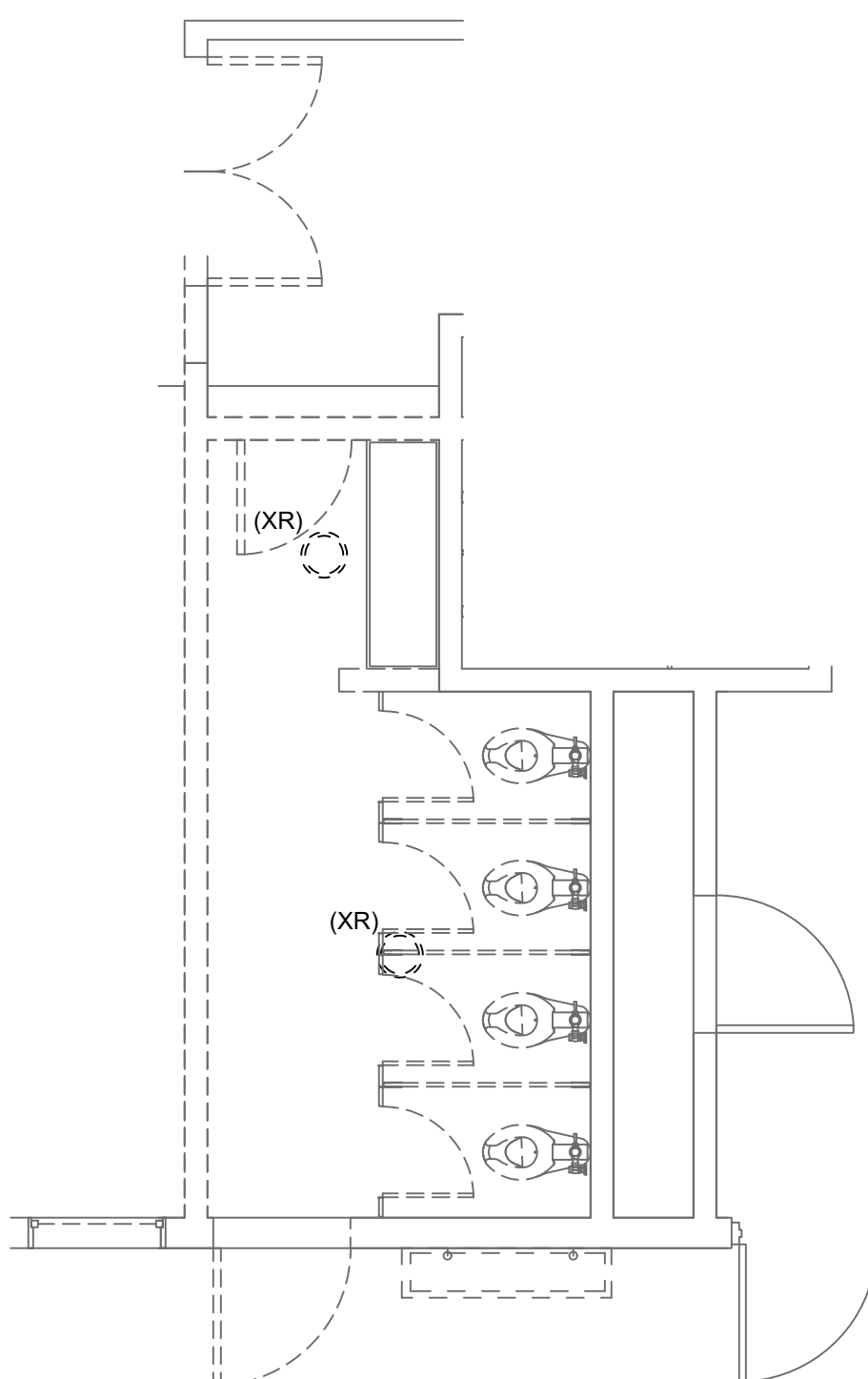
7
E3.03



BLDG D - LEVEL 1 - GIRLS RR 91 - ELECTRICAL PLAN

SCALE: 1/4" = 1'-0"

2
E3.03



BLDG D - LEVEL 1 - GIRLS RR 91 - DEMOLITION PLAN

SCALE: 1/4" = 1'-0"

1
E3.03

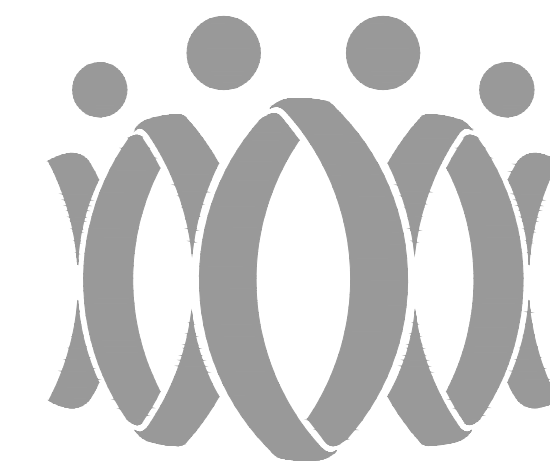
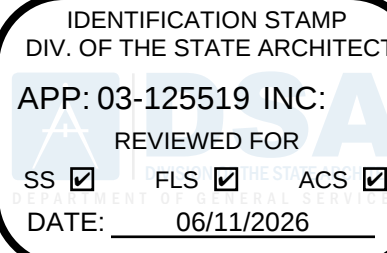
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AGENCY



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architecture planning interiors

HEADQUARTERS OFFICE:

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Pasadena, CA 91101
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E-Mail: fm-pasadena@flewelling-moody.com

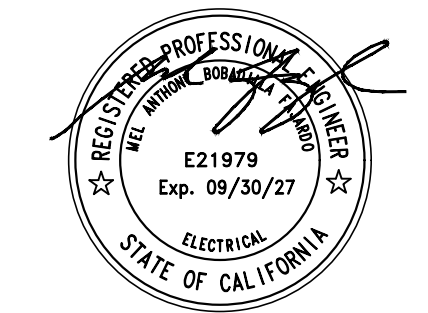
ANTELOPE VALLEY OFFICE:

1035 West Lancaster Boulevard
Lancaster, California 93534
Phone: 661.949.0771
E-Mail: fm-lancaster@flewelling-moody.com

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PASADENA UNIFIED SCHOOL DISTRICT

MARSHALL FUNDAMENTAL SCHOOL
TOILET ROOMS MODERNIZATION &
ADA UPGRADES

990 ALLEN AVE PASADENA, CA 91104

Drawing Title

BUILDING D
ENLARGED RESTROOM
ELECTRICAL PLANS

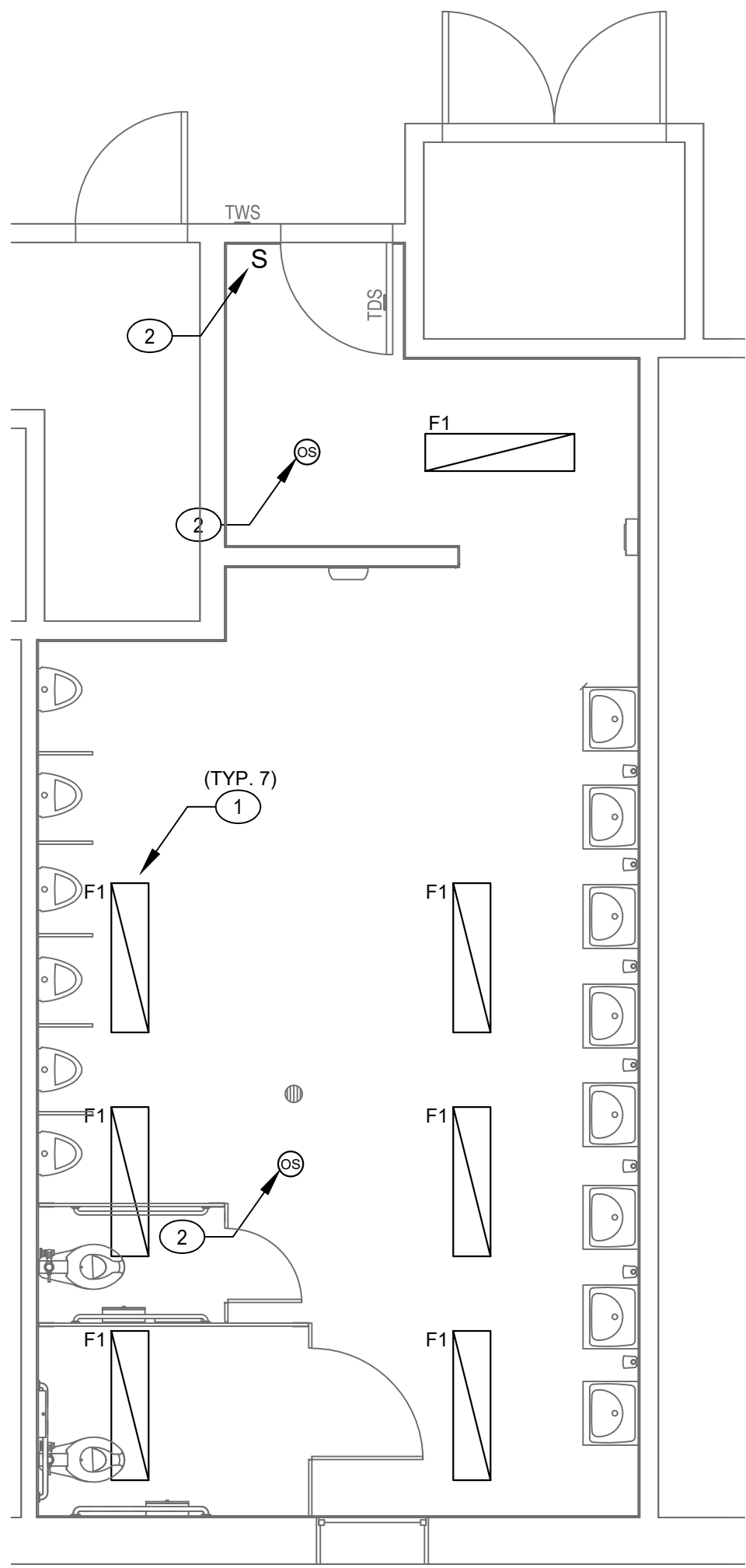
Job No.

3189

Sheet No.

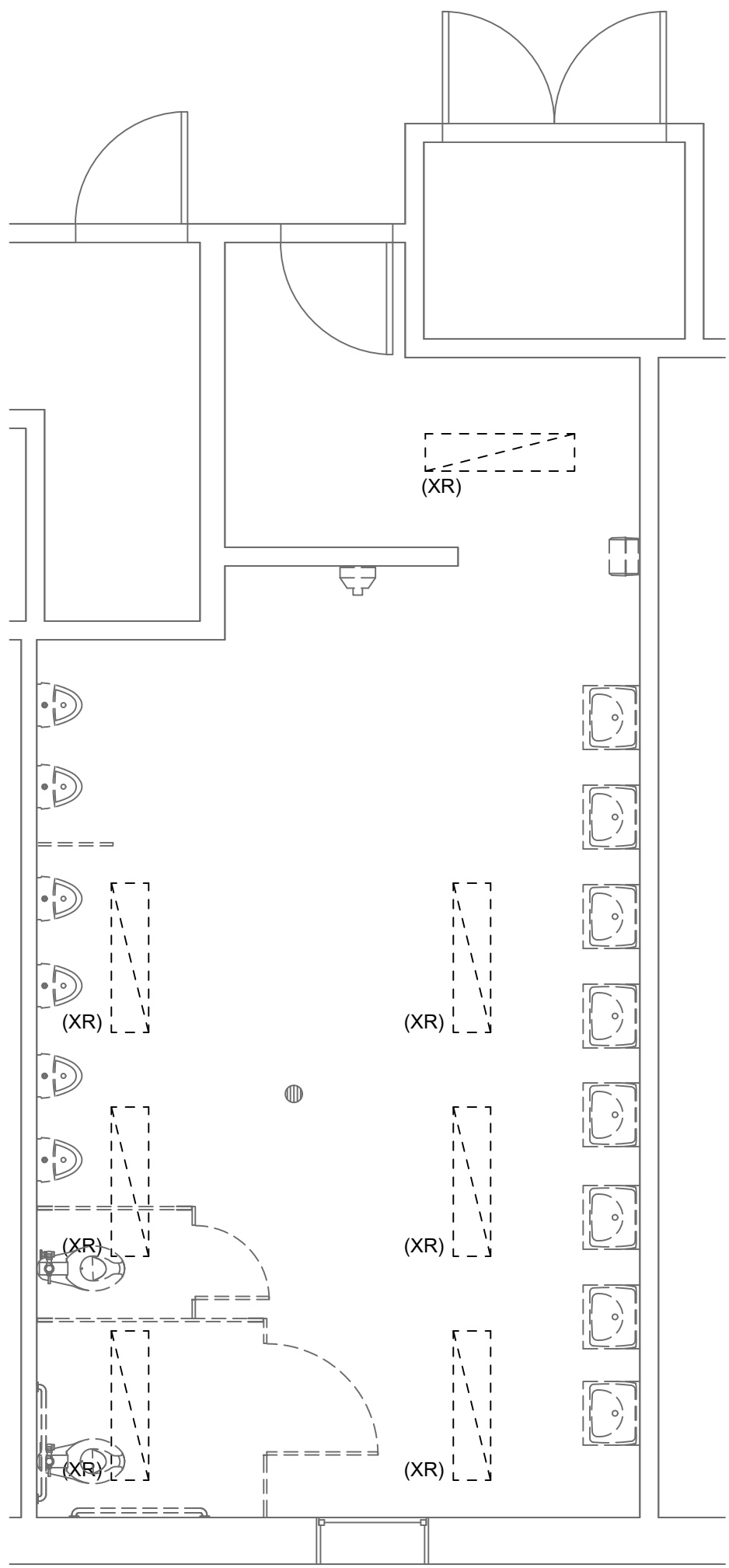
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Date
03/24/2026



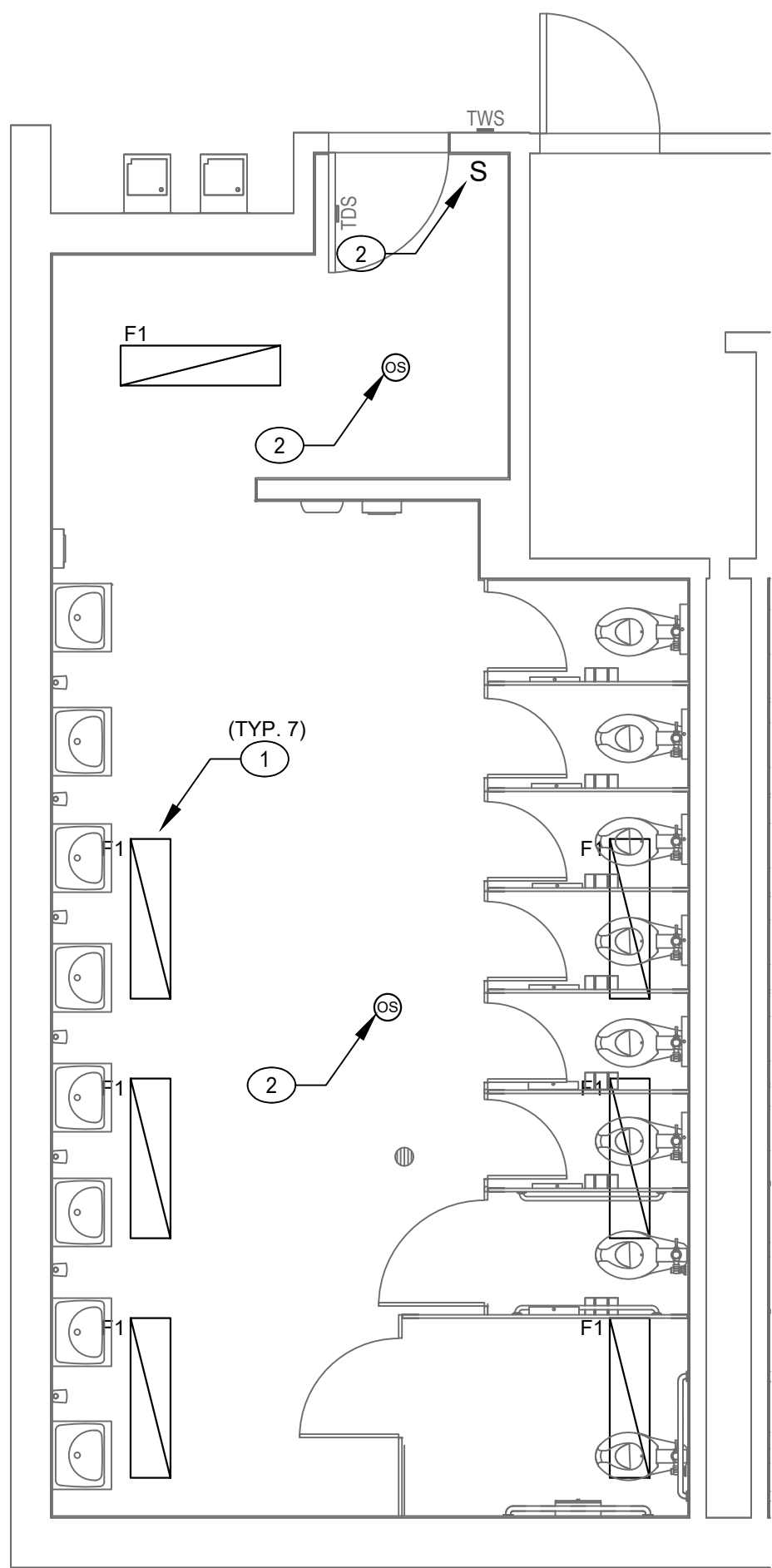
BLDG G - LEVEL 1 - BOYS 168 - ELECTRICAL PLAN

SCALE: 1/4" = 1'-0"



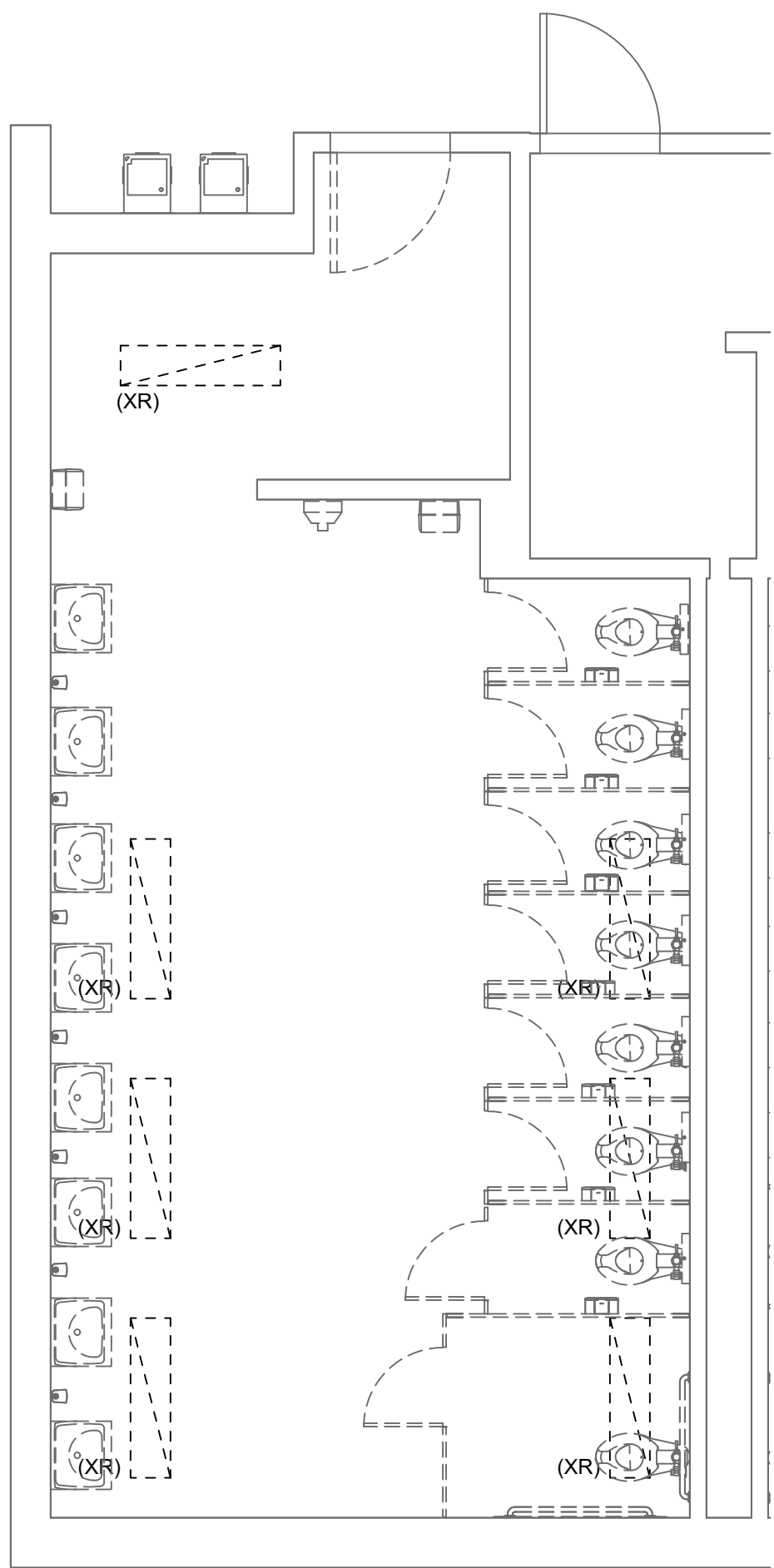
BLDG G - LEVEL 1 - BOYS 168 - DEMOLITION PLAN

SCALE: 1/4" = 1'-0"



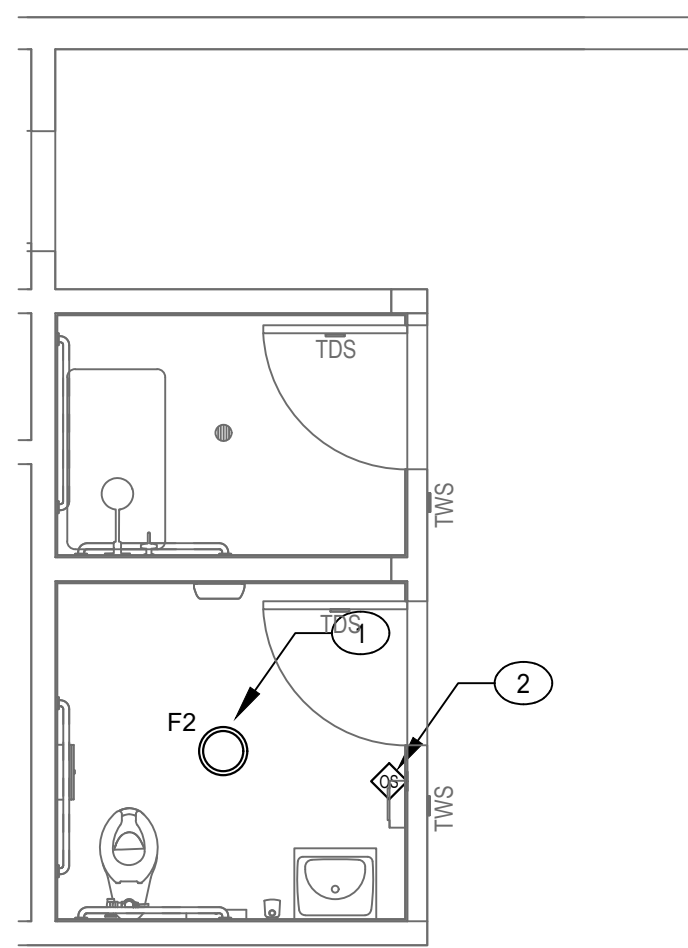
BLDG G - LEVEL 1 - GIRLS RR 171 - ELECTRICAL PLAN

SCALE: 1/4" = 1'-0"



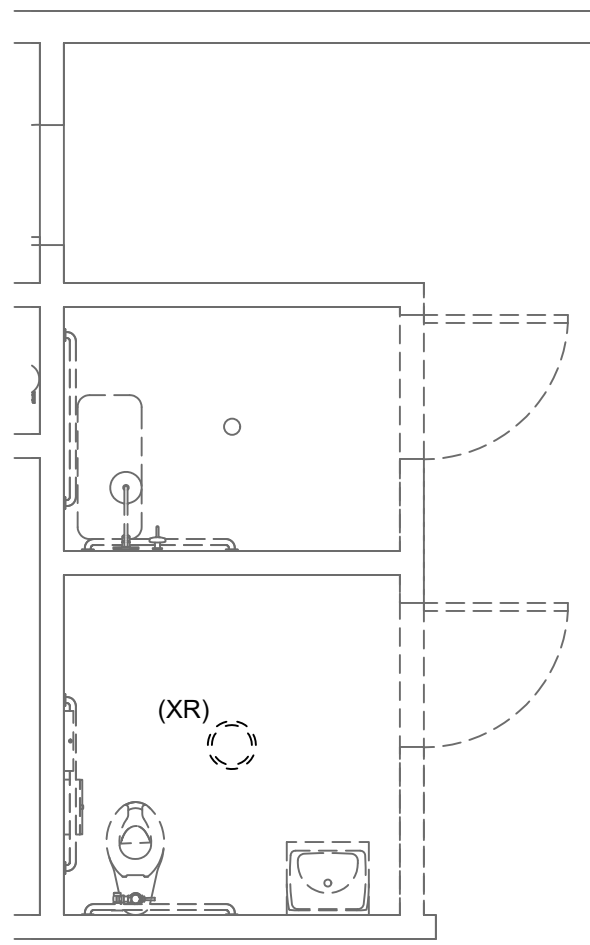
BLDG G - LEVEL 1 - GIRLS RR 171 - DEMOLITION PLAN

SCALE: 1/4" = 1'-0"



BLDG D - LEVEL 2 - MENS RR, SHOWER 235.1, 235.2 - ELECTRICAL PLAN

SCALE: 1/4" = 1'-0"



BLDG D - LEVEL 2 - MENS RR, SHOWER 235.1, 235.2 - DEMOLITION PLAN

SCALE: 1/4" = 1'-0"

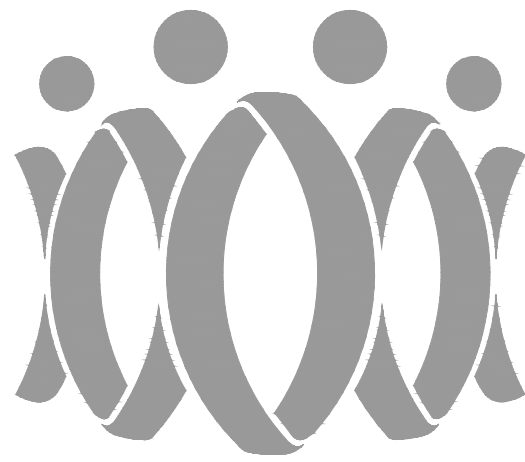
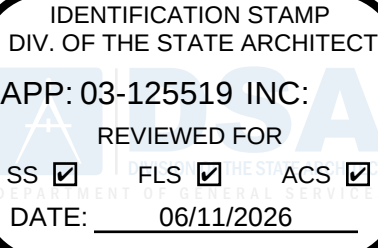
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AGENCY



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architecture planning interiors

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Pasadena, CA 91101
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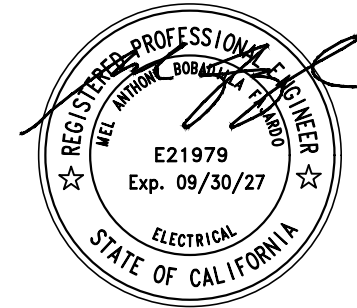
ANTELOPE VALLEY OFFICE:

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Lancaster, California 93534
Phone: 661.949.0771
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Burbank, CA 91506
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PASADENA UNIFIED SCHOOL DISTRICT

MARSHALL FUNDAMENTAL SCHOOL
TOILET ROOMS MODERNIZATION & ADA UPGRADES

990 ALLEN AVE PASADENA, CA 91104

Drawing Title

BUILDINGS D, F, & G
ENLARGED RESTROOM
ELECTRICAL PLANS

Job No.

3189

Sheet No.

E3.04

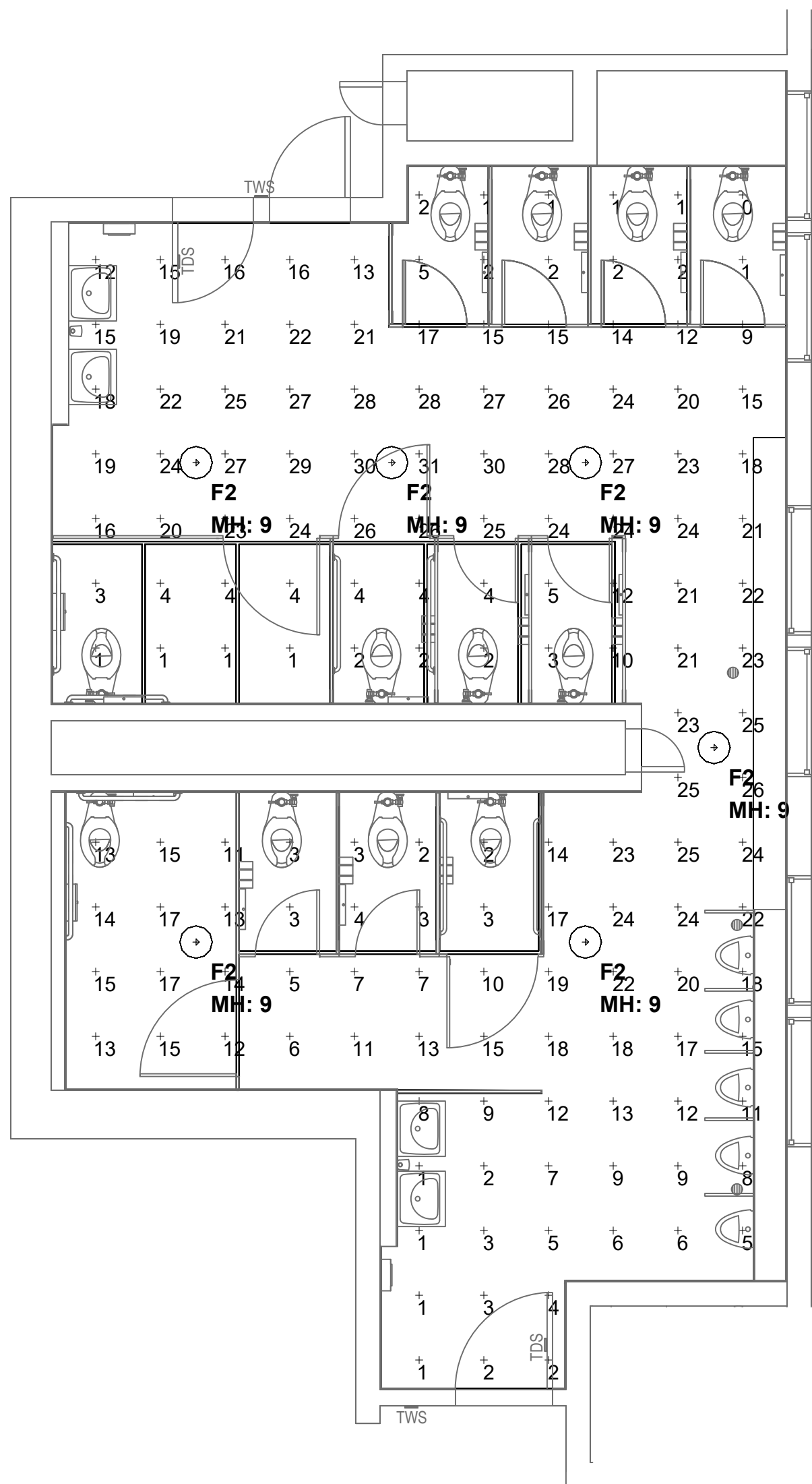
Date
03/24/2026

Jobname: MARSHALL FUNDAMENTAL SCHOOL TOILET ROOMS MODERNIZATION & ADA UPGRADES
Location: Pasadena, CA
Report for: Pacific Engineers Group
c/o: Crissy Cosci
Report by: Ismael Avina-Prieto / Applications Engineer
Mounting Ht.: See Drawing [PLEASE VERIFY CORRECT HEIGHTS]
Reflectance: 80/50/20 [UNLESS OTHERWISE SPECIFIED]
See Luminaire Schedule for Light Loss Factor [UNLESS OTHERWISE SPECIFIED]
Filename: Marshall Fundamental Pasadena (Restroom BLDG A)_2025-08-Rev1.AGI
Date:8/22/2025

-----Disclaimer-----
Luminaire performance data is provided by manufacturer(s) and is based on IESNA testing procedures done in controlled laboratory conditions. Field results may vary from computer modeling due to numerous factors (beyond our control). This photometric modeling is based upon information and criteria provided to us and is solely for design assistance; final lighting design, application, fixture selection and layout is the responsibility of the specifier of record.

Luminaire Schedule						
Symbol	Qty	Label	Arrangement	LLF	Luminaire Lumens	Description
	11	F2	Single	0.850	3655	KIM // PVNTR-17-30-35K8-UNV

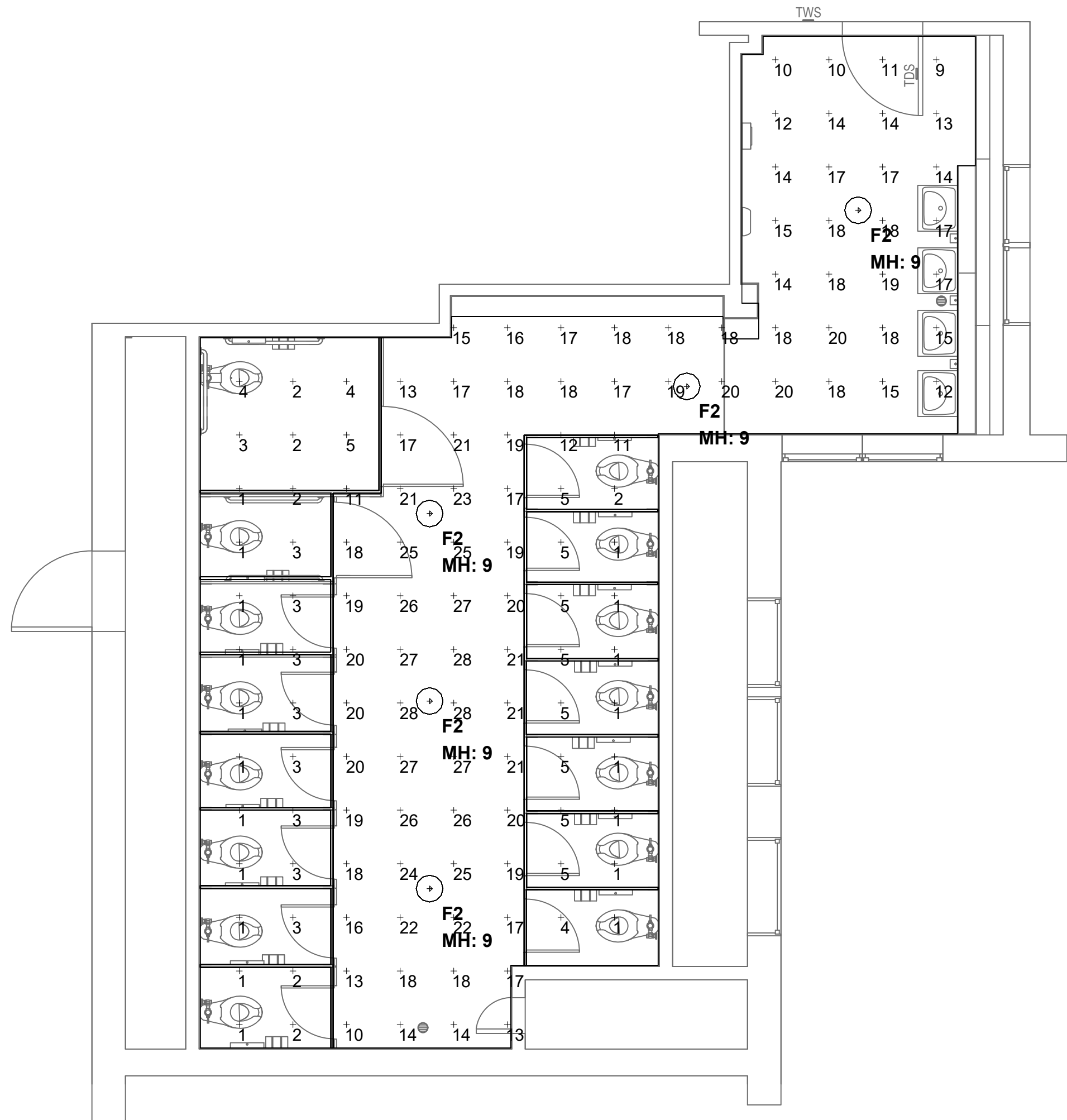
Calculation Summary							
Label	CalcType	Units	Avg	Max	Min	Avg/Min	Max/Min
A12_Floor	Illuminance	Fc	13.23	31	0	N.A.	N.A.
A8_Floor	Illuminance	Fc	12.91	28	1	12.91	28.00



BLDG A - LEVEL 1 - BOYS RR 122 -
PHOTOMETRIC CALCULATIONS - NORMAL

SCALE: 1/4" = 1'-0"

2
E3.05



BLDG A - LEVEL 1 - GIRLS RR 108 -
PHOTOMETRIC CALCULATIONS - NORMAL

SCALE: 1/4" = 1'-0"

1
E3.05

AGENCY

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APP: 03-125519 INC:
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SS ☒ FLS ☒ ACS ☒
DATE: 06/11/2026



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HEADQUARTERS OFFICE:

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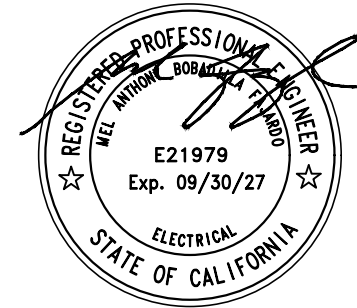
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TOILET ROOMS MODERNIZATION &
ADA UPGRADES

990 ALLEN AVE PASADENA, CA 91104

Drawing Title

BUILDING A
ENLARGED RESTROOM
PHOTOMETRIC
CALCULATIONS -
NORMAL

Job No.

3189

Sheet No.

E3.05

Date

03/24/2026

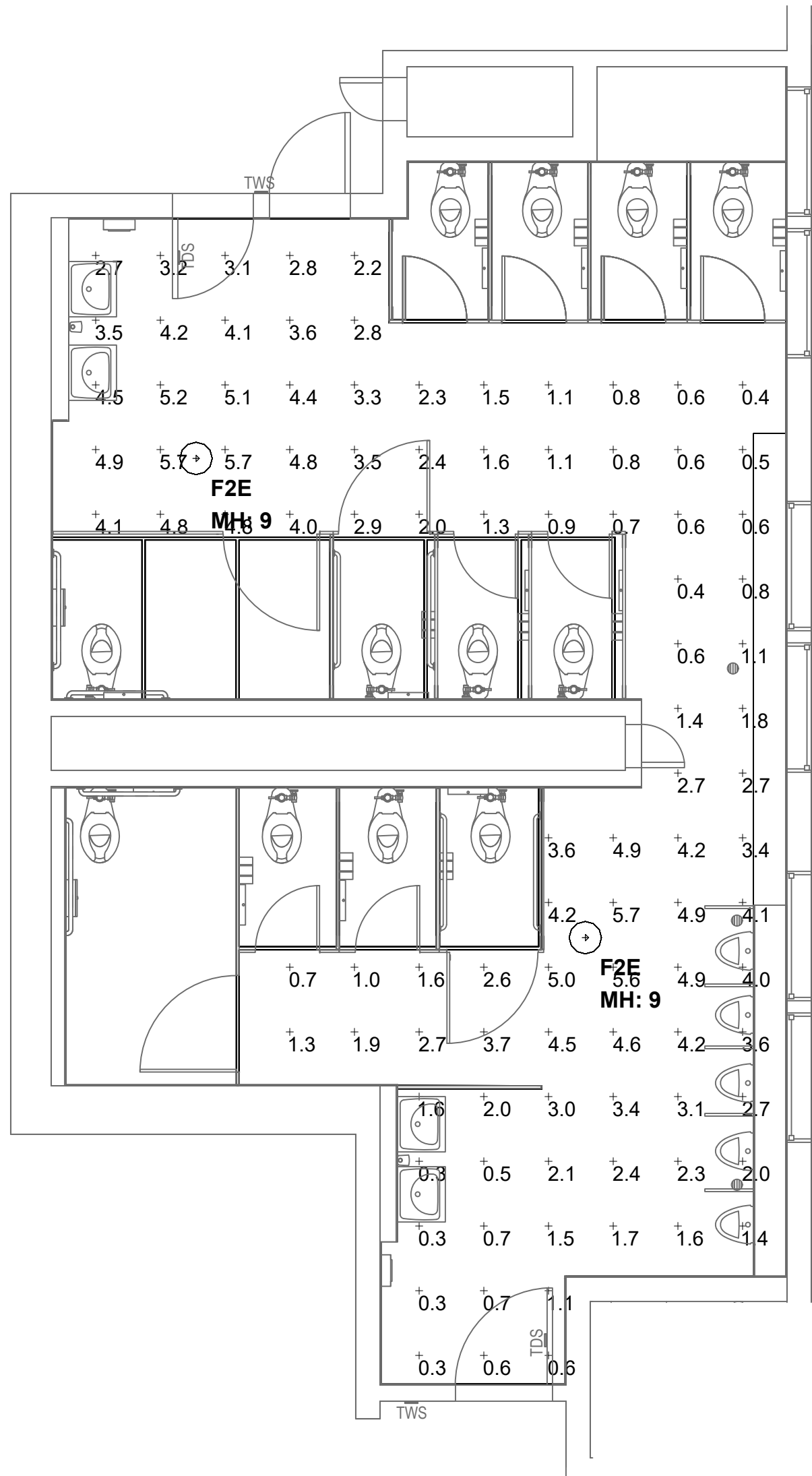
*EGRESS ON BATTERY

Jobname: MARSHALL FUNDAMENTAL SCHOOL TOILET ROOMS MODERNIZATION & ADA UPGRADES
Location: Pasadena, CA
Report for: Pacific Engineers Group
c/o: Crissy Cosci
Report by: Ismael Avina-Prieto / Applications Engineer
Mounting Ht.: See Drawing [PLEASE VERIFY CORRECT HEIGHTS]
Reflectance: 80/50/20 [UNLESS OTHERWISE SPECIFIED]
See Luminaire Schedule for Light Loss Factor [UNLESS OTHERWISE SPECIFIED]
Filename: Marshall Fundamental Pasadena (Restroom BLDG A)___2025-08-Rev1 EGRESS.AGI
Date: 8/22/2025

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Luminaire Schedule						
Symbol	Qty	Label	Arrangement	LLF	Luminaire Lumens	Description
	4	F2E	Single	0.318	3655	KIM // PVNTR-17-30-35K8-UNV-EM (10W battery)

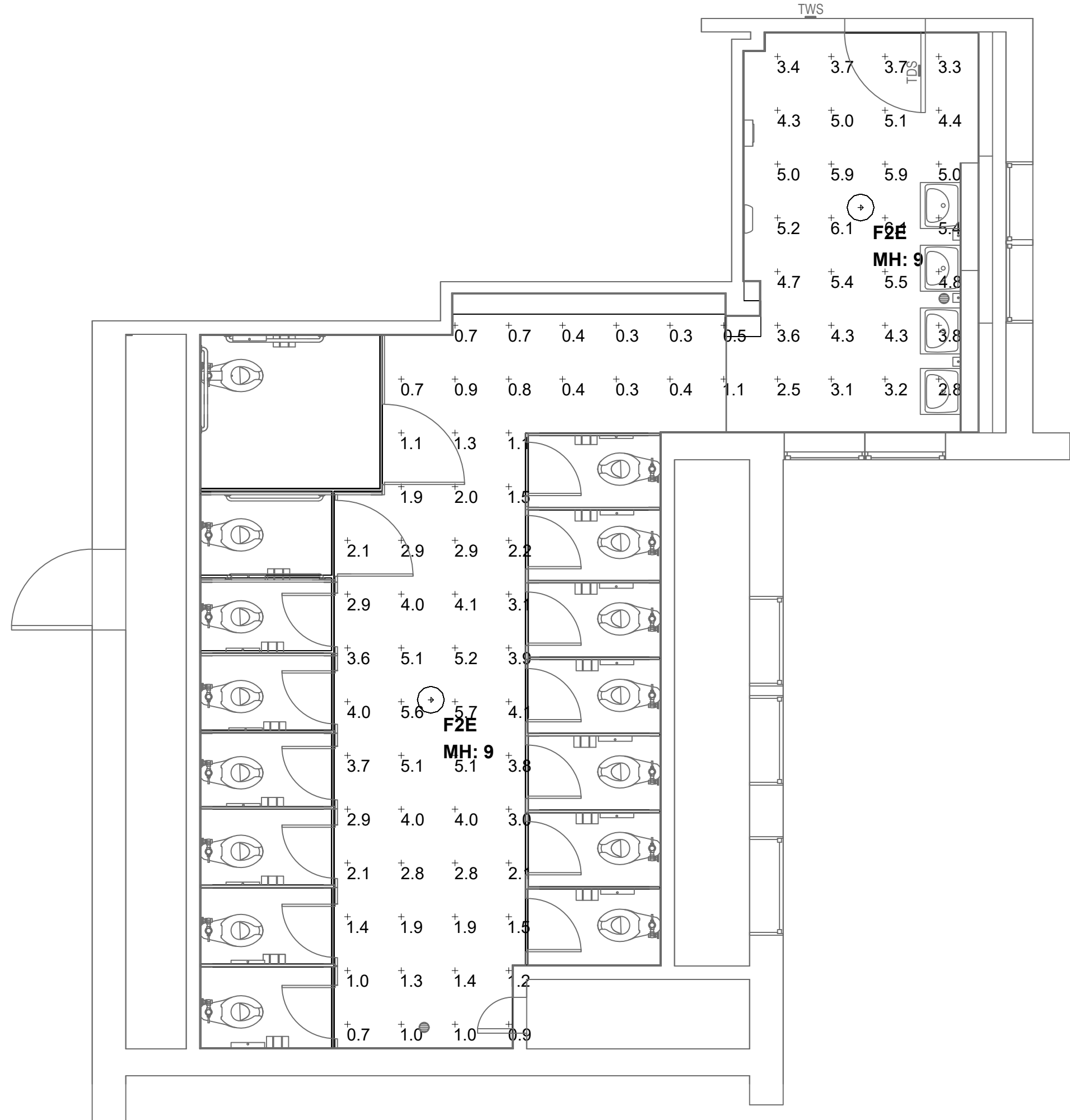
Calculation Summary							
Label	CalcType	Units	Avg	Max	Min	Avg/Min	Max/Min
A12_Floor	Illuminance	Fc	2.57	5.7	0.3	8.57	19.00
A8_Floor	Illuminance	Fc	2.99	6.1	0.3	9.97	20.33



BLDG A - LEVEL 1 - BOYS RR 122 -
PHOTOMETRIC CALCULATIONS - EGRESS

SCALE: 1/4" = 1'-0"

2
E3.06



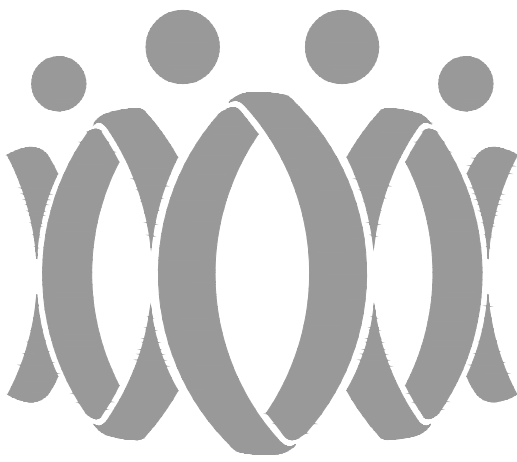
BLDG A - LEVEL 1 - GIRLS RR 108 -
PHOTOMETRIC CALCULATIONS - EGRESS

SCALE: 1/4" = 1'-0"

1
E3.06

AGENCY

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-125519 INC:
REVIEWED FOR
SS ☒ FLS ☒ ACS ☒
DATE: 06/11/2026



FLEWELLING & MOODY
architecture planning interiors

HEADQUARTERS OFFICE:

99 S. Lake Avenue, Suite 300
Pasadena, CA 91101
Phone: 323.543.8300
E-Mail: fm-pasadena@flewelling-moody.com

ANTELOPE VALLEY OFFICE:

1035 West Lancaster Boulevard
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Phone: 661.949.0771
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Consulting MEP Engineers
1108 W. Magnolia Blvd., Suite A
Burbank, CA 91506
(818) 859-7081 Y25-033
info@pacificeng.net

Drawn by: HY

Check by: AF

Revisions

No.	Date	Description

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PASADENA UNIFIED SCHOOL
DISTRICT

MARSHALL FUNDAMENTAL SCHOOL
TOILET ROOMS MODERNIZATION &
ADA UPGRADES

990 ALLEN AVE PASADENA, CA 91104

Drawing Title

BUILDING A
ENLARGED RESTROOM
PHOTOMETRIC
CALCULATIONS -
EGRESS

Job No.

3189

Sheet No.

E3.06

Date

03/24/2026

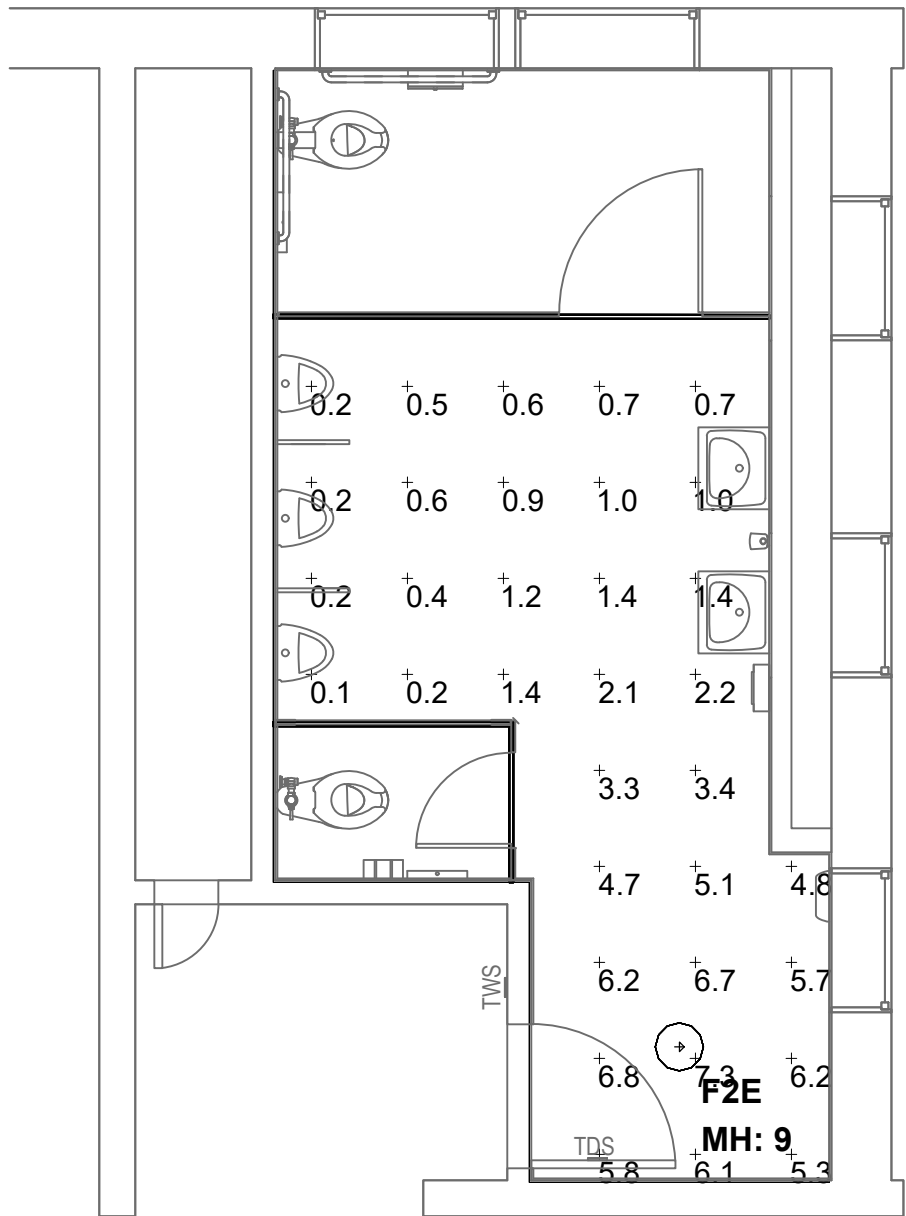
*EGRESS ON BATTERY

Jobname: MARSHALL FUNDAMENTAL SCHOOL TOILET ROOMS MODERNIZATION & ADA UPGRADES
Location: Pasadena, CA
Report for: Pacific Engineers Group
c/o: Crissy Cosci
Report by: Ismael Avina-Prieto / Applications Engineer
Mounting Ht.: See Drawing [PLEASE VERIFY CORRECT HEIGHTS]
Reflectance: 80/50/20 [UNLESS OTHERWISE SPECIFIED]
See Luminaire Schedule for Light Loss Factor [UNLESS OTHERWISE SPECIFIED]
Filename: Marshall Fundamental Pasadena (Restroom BLDG ABC)___2025-08-Rev1 EGRESS.AGI
Date:8/22/2025

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Luminaire Schedule						
Symbol	Qty	Label	Arrangement	LLF	Luminaire Lumens	Description
	2	F2E	Single	0.318	3655	KIM // PVNTR-17-30-35K8-UNV-EM (10W battery)

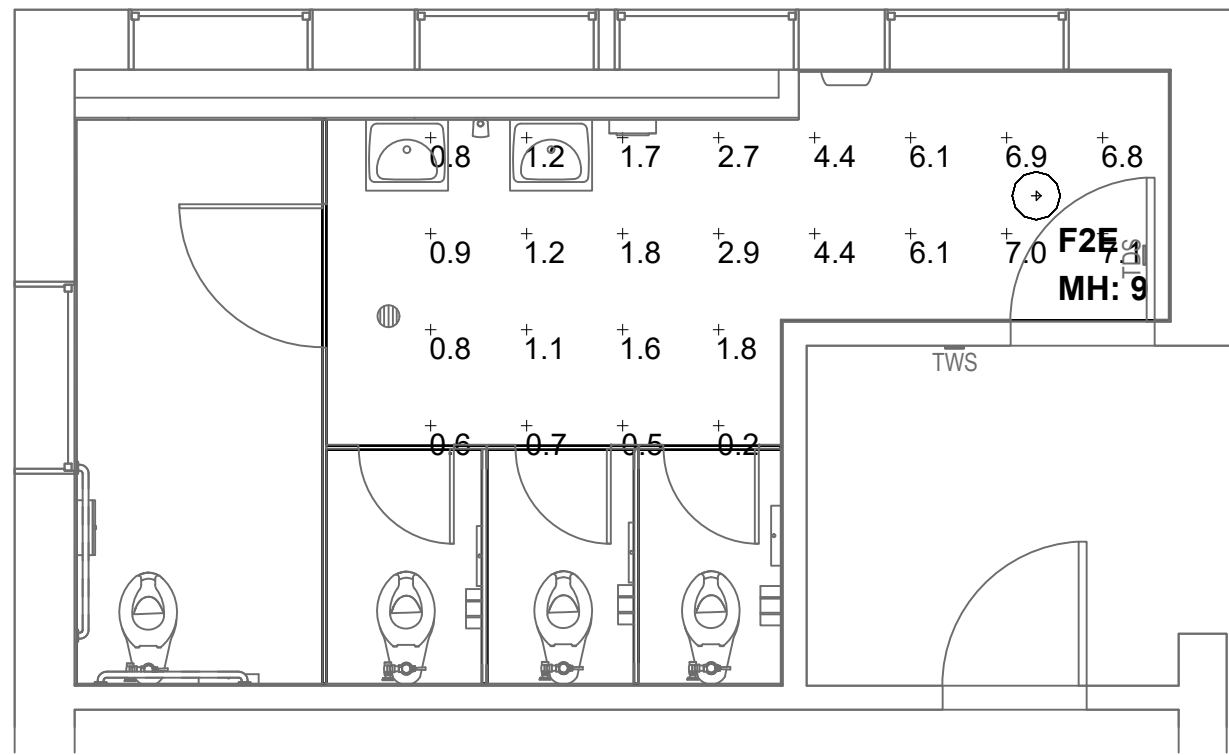
Calculation Summary							
Label	CalcType	Units	Avg	Max	Min	Avg/Min	Max/Min
B1_Floor	Illuminance	Fc	2.89	7.1	0.2	14.45	35.50
B2_Floor	Illuminance	Fc	2.78	7.3	0.1	27.80	73.00



BLDG B - LEVEL 1 - BOYS RR 133 -
PHOTOMETRIC CALCULATIONS - EGRESS

SCALE: 1/4" = 1'-0"

2
E3.08



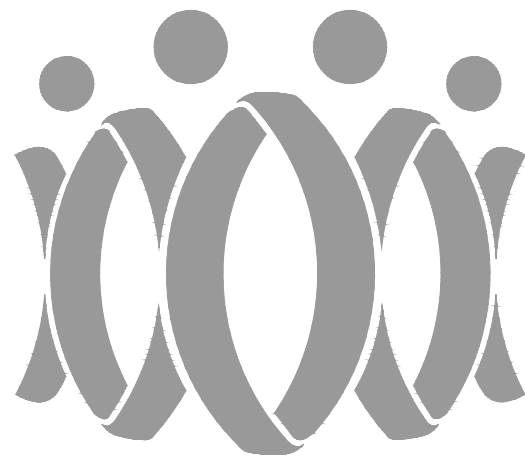
BLDG B - LEVEL 1 - GIRLS RR 121 -
PHOTOMETRIC CALCULATIONS - EGRESS

SCALE: 1/4" = 1'-0"

1
E3.08

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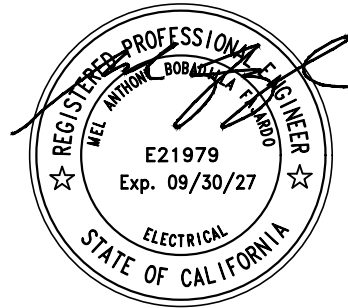
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Lancaster, California 93534
Phone: 661.949.0771
E-Mail: fm-lancaster@flewellling-moody.com

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PACIFIC ENGINEERS GROUP
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1106 W. Magnolia Blvd., Suite A
Burbank, CA 91506
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PASADENA UNIFIED SCHOOL DISTRICT

MARSHALL FUNDAMENTAL SCHOOL
TOILET ROOMS MODERNIZATION &
ADA UPGRADES

990 ALLEN AVE PASADENA, CA 91104

Drawing Title

BUILDING B
ENLARGED RESTROOM
PHOTOMETRIC
CALCULATIONS -
EGRESS

Job No.

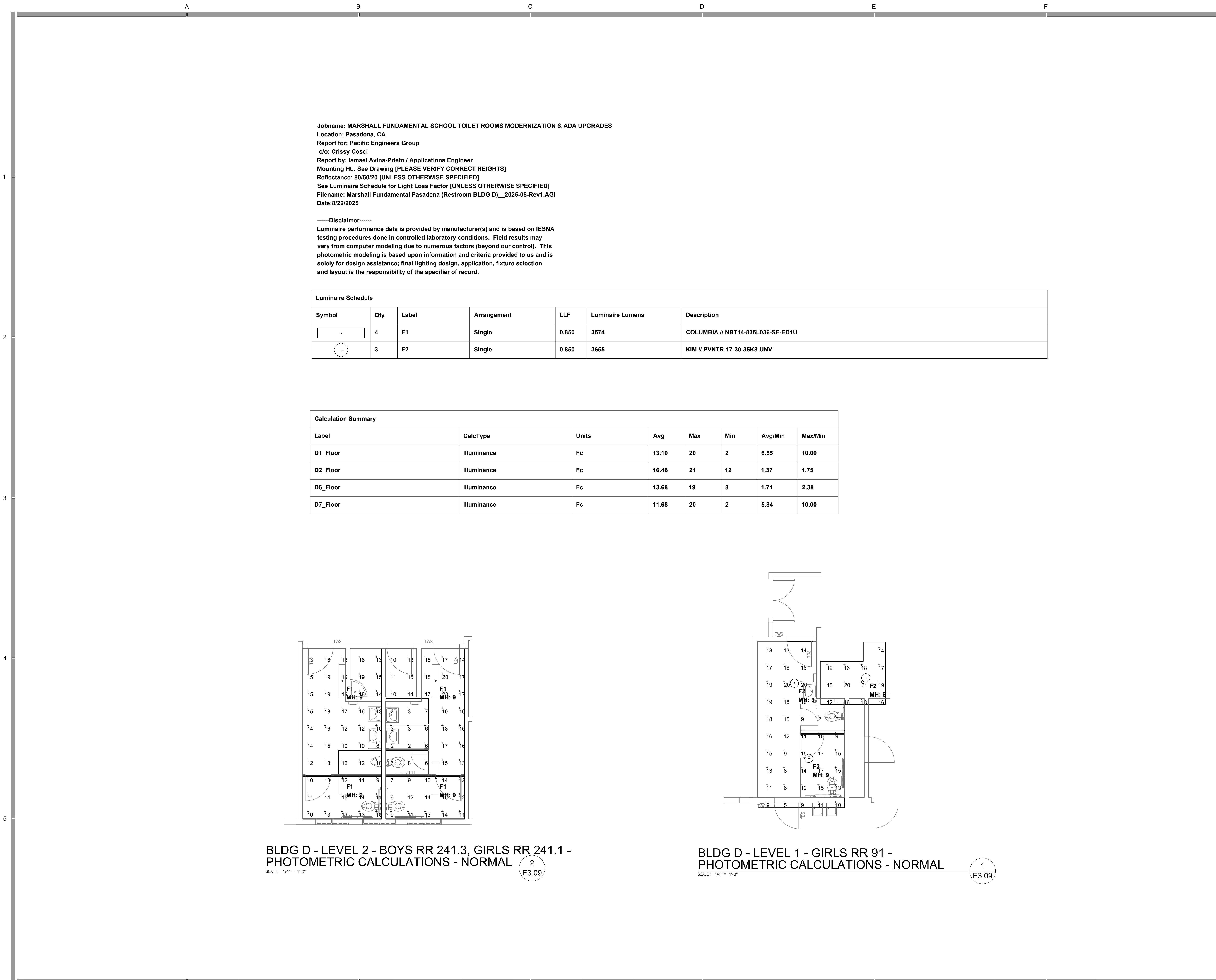
3189

Date

03/24/2026

Sheet No.

E3.08



AGENCY

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MARSHALL FUNDAMENTAL SCHOOL
TOILET ROOMS MODERNIZATION & ADA UPGRADES

990 ALLEN AVE PASADENA, CA 91104

Drawing Title

BUILDING D
ENLARGED RESTROOM
PHOTOMETRIC
CALCULATIONS -
NORMAL

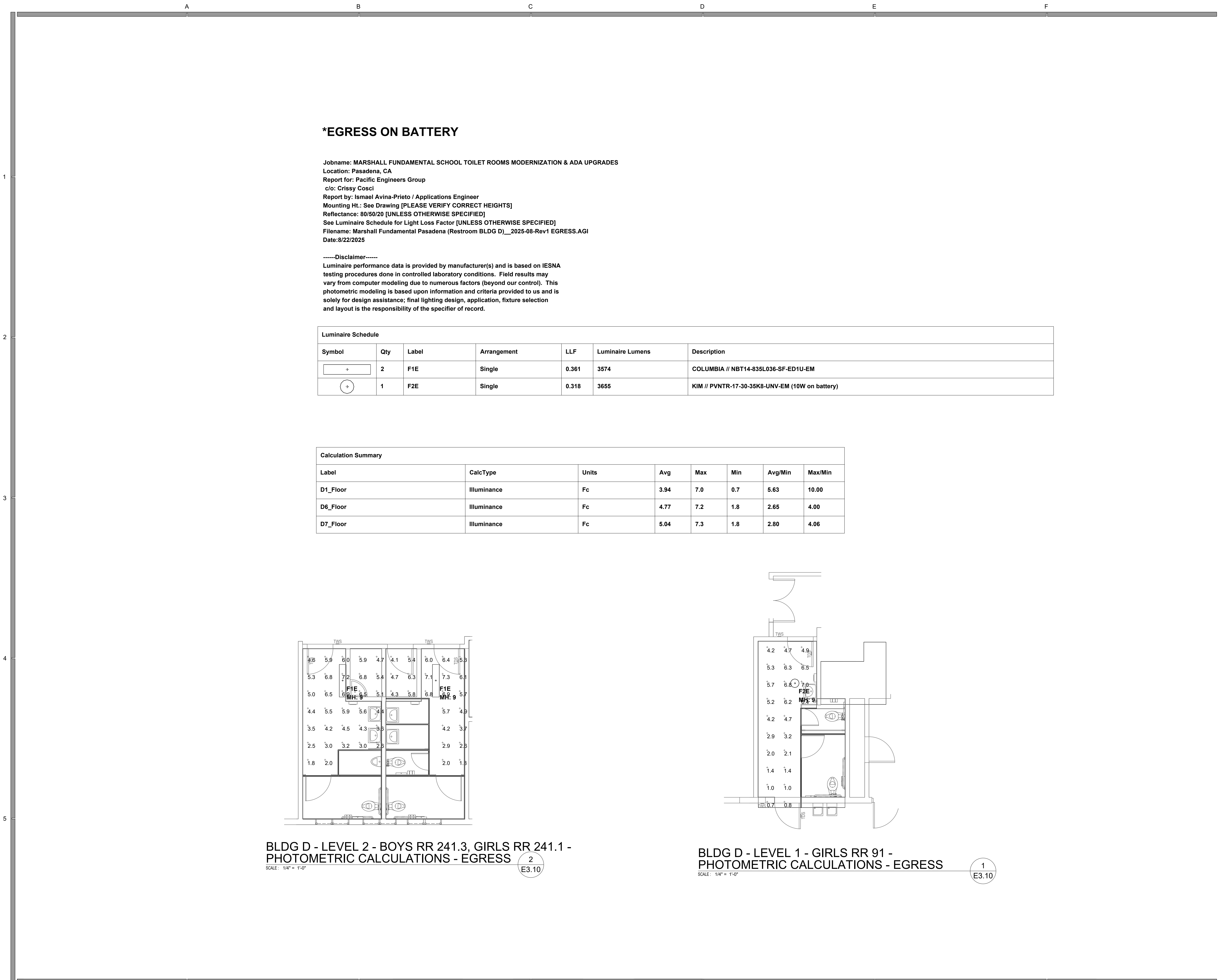
Job No.
3189

Date
03/24/2026

Sheet No.
E3.09

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8/12/2025 4:06:55 PM



BLDG D - LEVEL 2 - BOYS RR 241.3, GIRLS RR 241.1 -
PHOTOMETRIC CALCULATIONS - EGRESS

SCALE: 1/4" = 1'-0"

2
E3.10

BLDG D - LEVEL 1 - GIRLS RR 91 -
PHOTOMETRIC CALCULATIONS - EGRESS

SCALE: 1/4" = 1'-0"

1
E3.10

AGENCY

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MARSHALL FUNDAMENTAL SCHOOL
TOILET ROOMS MODERNIZATION &
ADA UPGRADES

990 ALLEN AVE PASADENA, CA 91104

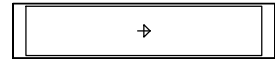
Drawing Title

BUILDING D
ENLARGED RESTROOM
PHOTOMETRIC
CALCULATIONS -
EGRESS

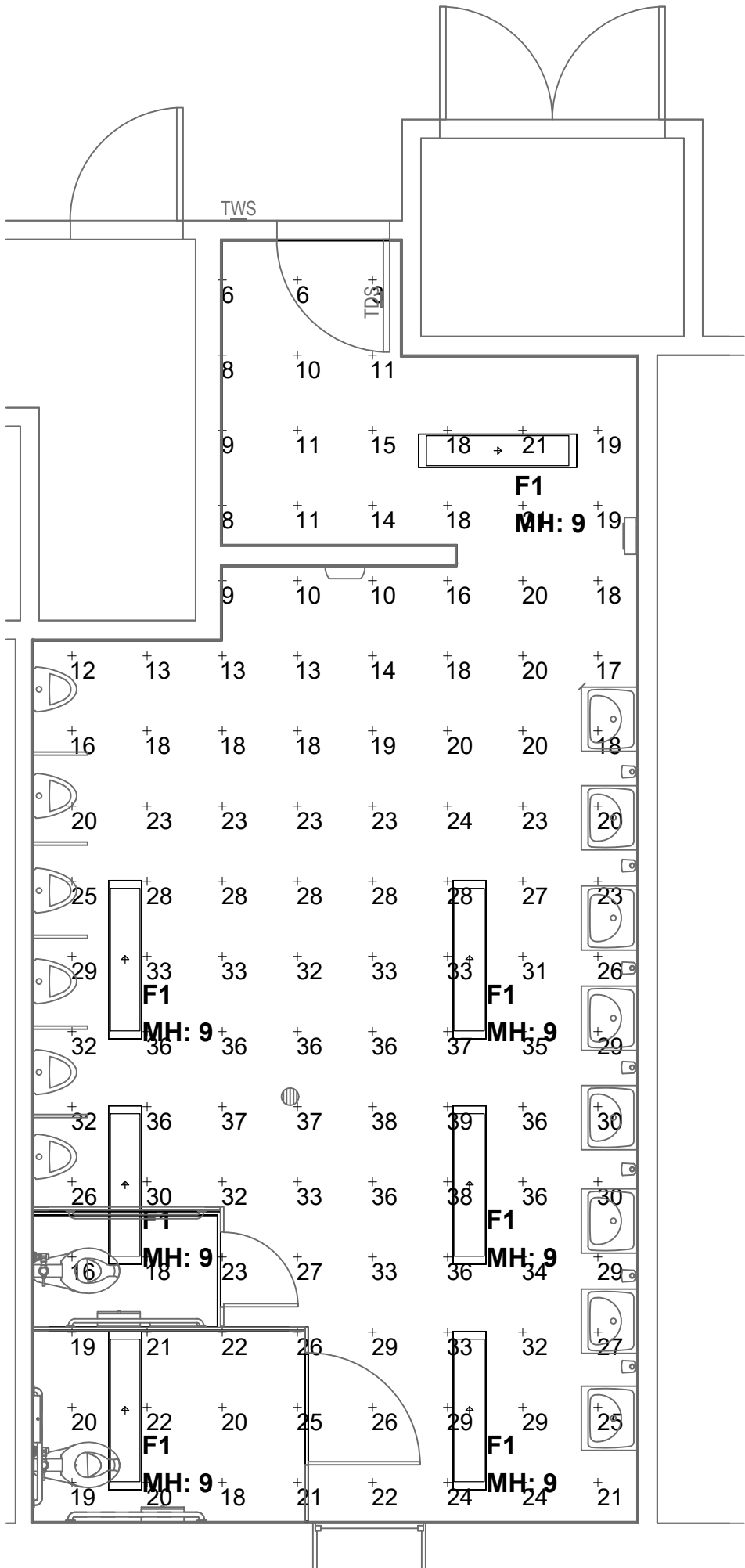
Job No. 3189	Sheet No. E3.10
Date 03/24/2026	

Jobname: MARSHALL FUNDAMENTAL SCHOOL TOILET ROOMS MODERNIZATION & ADA UPGRADES
Location: Pasadena, CA
Report for: Pacific Engineers Group
c/o: Crissy Cosci
Report by: Ismael Avina-Prieto / Applications Engineer
Mounting Ht.: See Drawing [PLEASE VERIFY CORRECT HEIGHTS]
Reflectance: 80/50/20 [UNLESS OTHERWISE SPECIFIED]
See Luminaire Schedule for Light Loss Factor [UNLESS OTHERWISE SPECIFIED]
Filename: Marshall Fundamental Pasadena (Restroom BLDG DFG)_2025-08-Rev1.AGI
Date:8/22/2025

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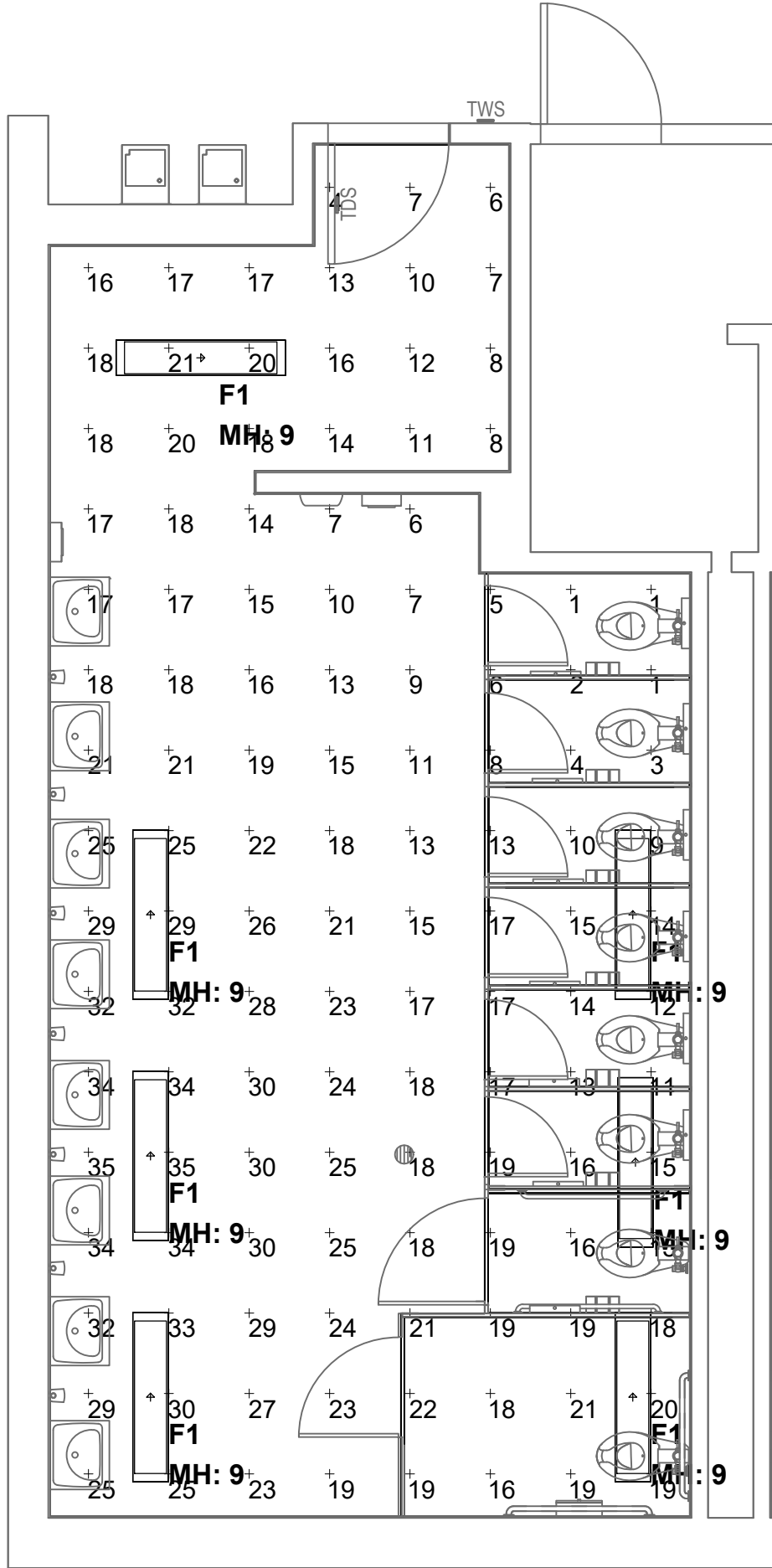
Luminaire Schedule						
Symbol	Qty	Label	Arrangement	LLF	Luminaire Lumens	Description
	14	F1	Single	0.850	3574	COLUMBIA // NBT14-835L036-SF-ED1U
	1	F2	Single	0.850	3655	KIM // PVNTR-17-30-35K8-UNV

Calculation Summary							
Label	CalcType	Units	Avg	Max	Min	Avg/Min	Max/Min
D11_Floor	Illuminance	Fc	16.94	21	14	1.21	1.50
G1_Floor	Illuminance	Fc	17.97	35	1	17.97	35.00
G2_Floor	Illuminance	Fc	23.63	39	3	7.88	13.00



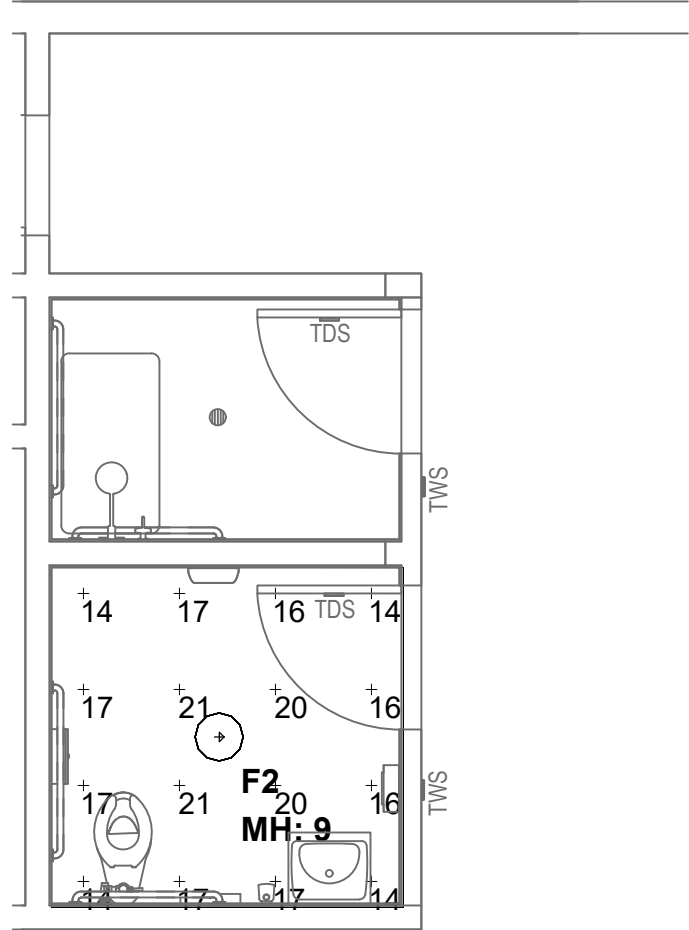
BLDG G - LEVEL 1 - BOYS 168 -
PHOTOMETRIC CALCULATIONS - NORMAL

3
E3.11



BLDG G - LEVEL 1 - GIRLS RR 171 -
PHOTOMETRIC CALCULATIONS - NORMAL

2
E3.11

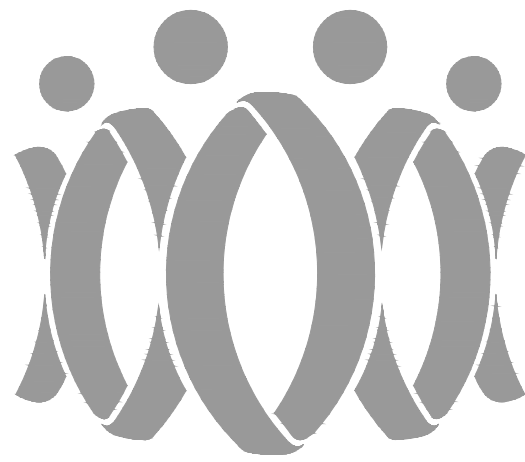


BLDG D - LEVEL 2 - MENS RR, SHOWER 235.1, 235.2 -
PHOTOMETRIC CALCULATIONS - NORMAL

1
E3.11

AGENCY

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DISTRICT

MARSHALL FUNDAMENTAL SCHOOL
TOILET ROOMS MODERNIZATION &
ADA UPGRADES

990 ALLEN AVE PASADENA, CA 91104

Drawing Title

BUILDINGS D & G
ENLARGED RESTROOM
PHOTOMETRIC
CALCULATIONS -
NORMAL

Job No.

3189

Sheet No.

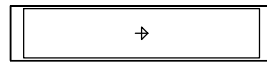
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Date
03/24/2026

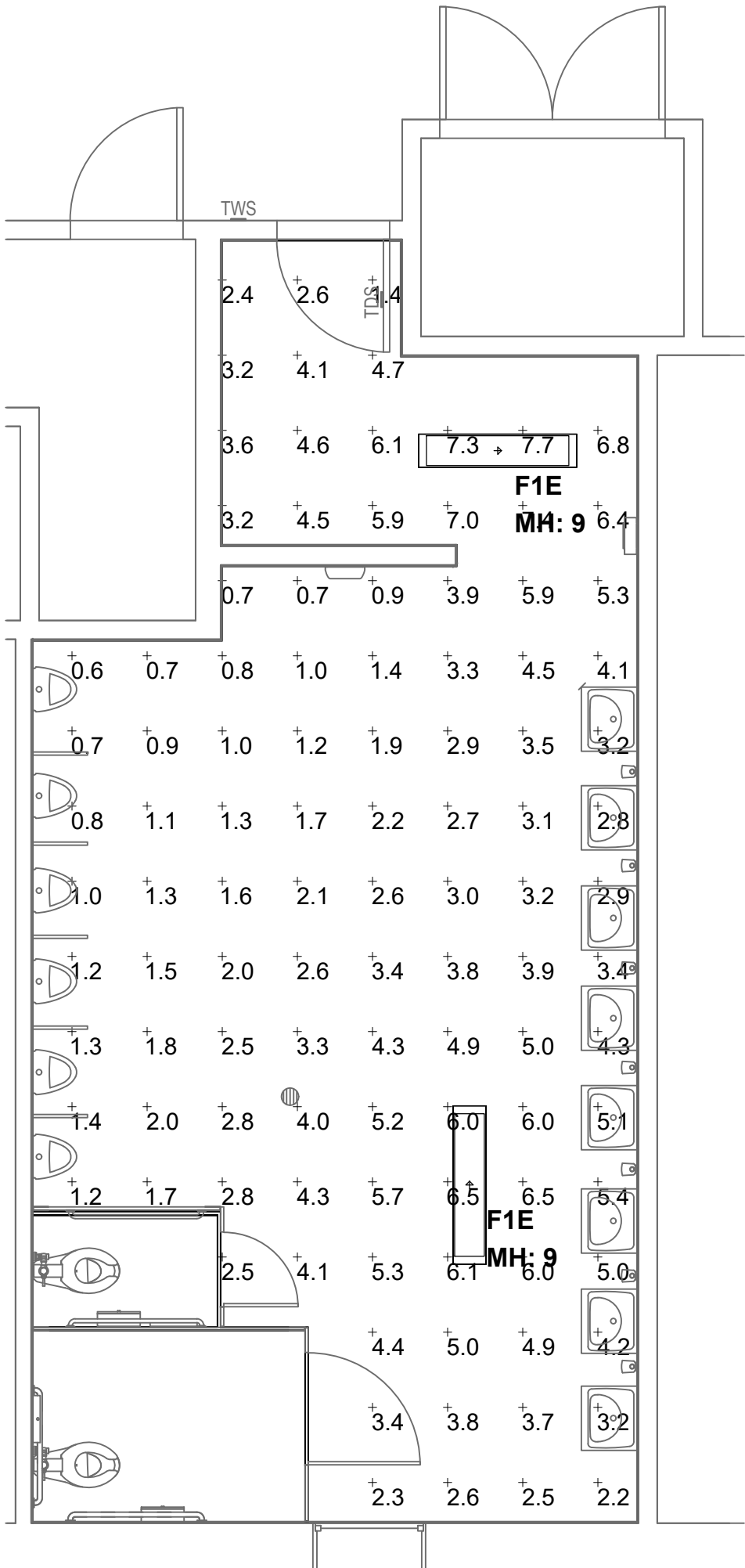
*EGRESS ON BATTERY

Jobname: MARSHALL FUNDAMENTAL SCHOOL TOILET ROOMS MODERNIZATION & ADA UPGRADES
Location: Pasadena, CA
Report for: Pacific Engineers Group
c/o: Crissy Cosci
Report by: Ismael Avina-Prieto / Applications Engineer
Mounting Ht.: See Drawing [PLEASE VERIFY CORRECT HEIGHTS]
Reflectance: 80/50/20 [UNLESS OTHERWISE SPECIFIED]
See Luminaire Schedule for Light Loss Factor [UNLESS OTHERWISE SPECIFIED]
Filename: Marshall Fundamental Pasadena (Restroom BLDG DFG)___2025-08-Rev1 EGRESS.AGI
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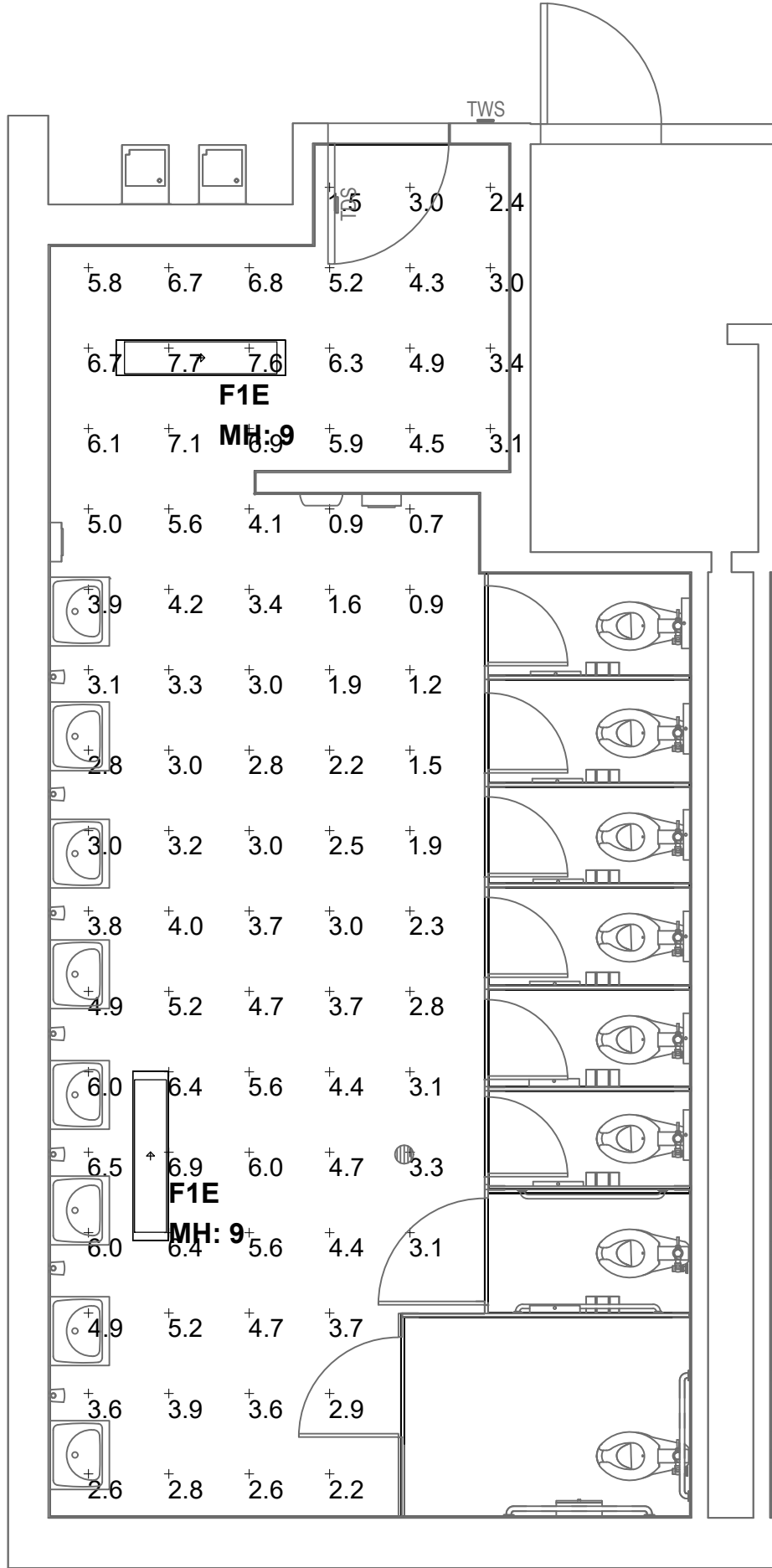
Luminaire Schedule						
Symbol	Qty	Label	Arrangement	LLF	Luminaire Lumens	Description
	4	F1E	Single	0.361	3574	COLUMBIA // NBT14-835L036-SF-ED1U-EM

Calculation Summary							
Label	CalcType	Units	Avg	Max	Min	Avg/Min	Max/Min
G1_Floor	Illuminance	Fc	4.06	7.7	0.7	5.80	11.00
G2_Floor	Illuminance	Fc	3.38	7.7	0.6	5.63	12.83



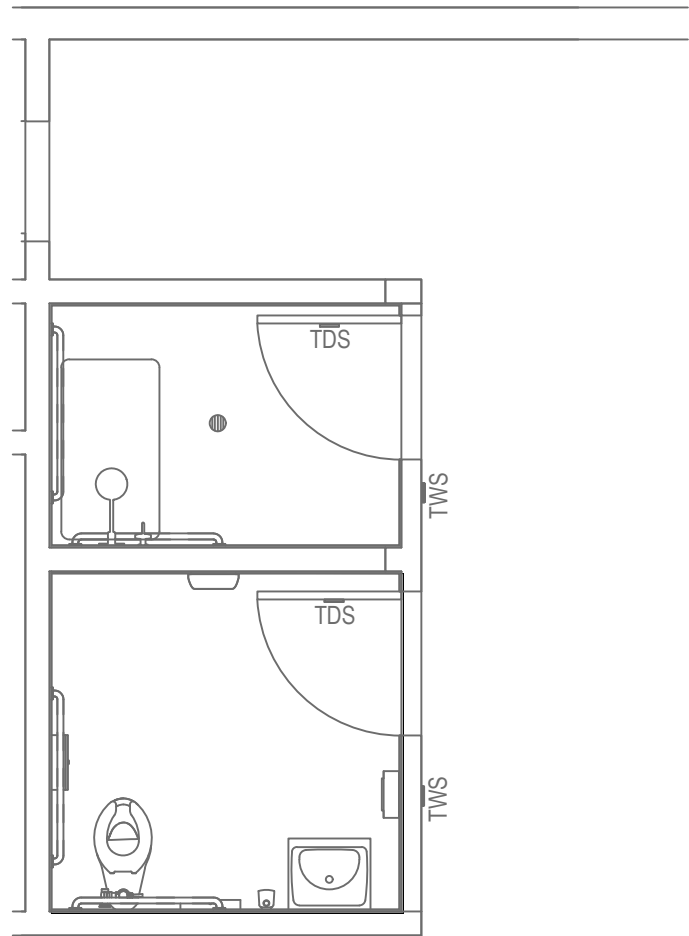
BLDG G - LEVEL 1 - BOYS 168 -
PHOTOMETRIC CALCULATIONS - EGRESS

3
E3.12



BLDG G - LEVEL 1 - GIRLS RR 171 -
PHOTOMETRIC CALCULATIONS - EGRESS

2
E3.12

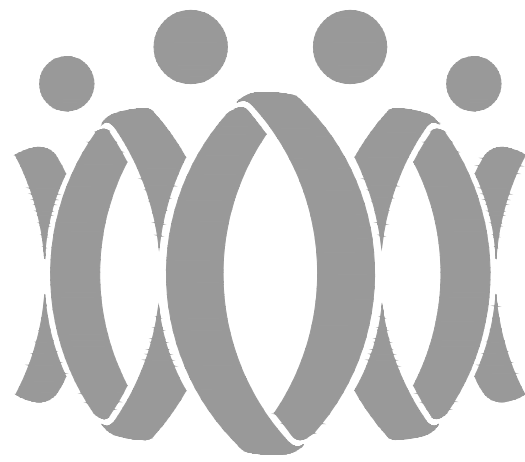


BLDG D - LEVEL 2 - MENS RR, SHOWER 235.1, 235.2 -
PHOTOMETRIC CALCULATIONS - EGRESS

1
E3.12

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Drawing Title

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PHOTOMETRIC
CALCULATIONS -
EGRESS

Job No.

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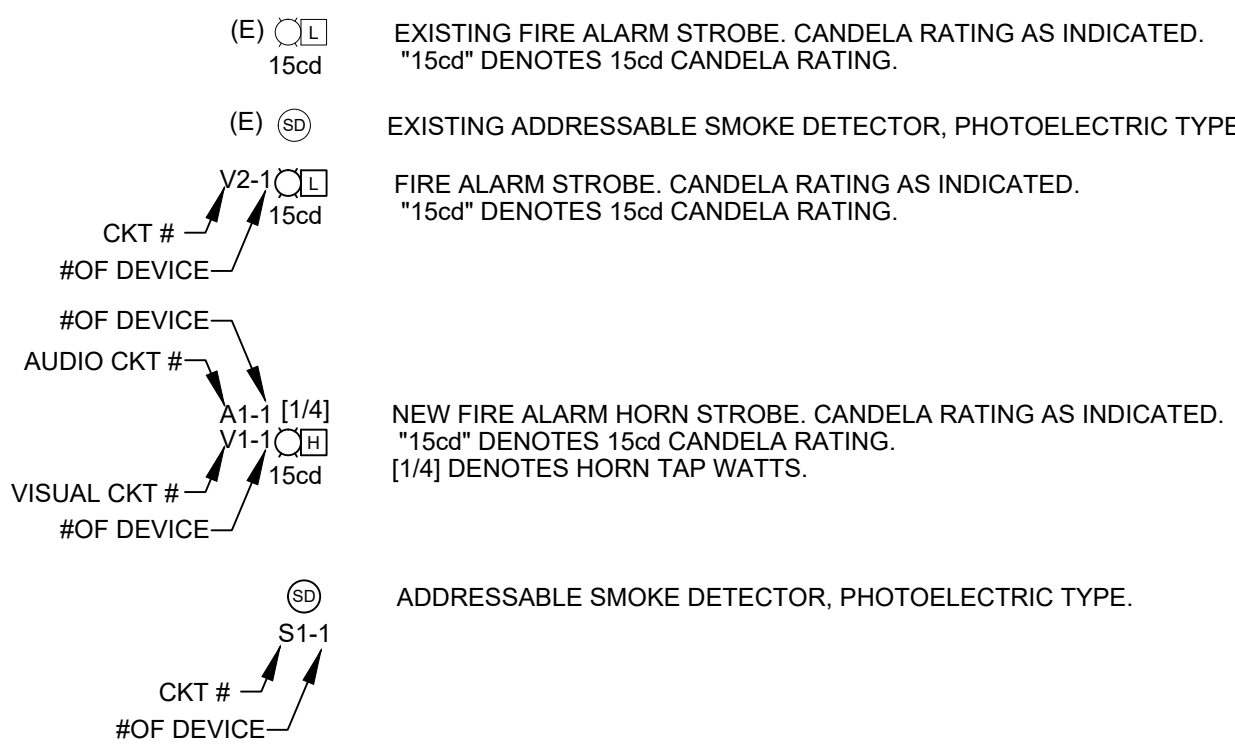
Sheet No.

E3.12

Date
03/24/2026

FIRE ALARM SYMBOL LIST

NOTE: NOT ALL SYMBOLS WILL BE USED ON PLANS



FATC	FIRE ALARM TERMINAL CABINET WITH TERMINAL STRIPS.
MFACP	MAIN FIRE ALARM CONTROL PANEL.
FACP	FIRE ALARM CONTROL PANEL.
FA	FIRE ALARM
FAPS	FIRE ALARM POWER SUPPLY.
VOICE EVAC	VOICE EVACUATION PANEL
MFATC	MAIN FIRE ALARM TERMINAL CABINET WITH TERMINAL STRIPS.
(E)	EXISTING TO REMAIN.
(RR)	REMOVE AND REINSTALL IN SAME PLACE.
(R)	RELOCATE.
W.P.	WEATHERPROOF.
EOL	END OF LINE RESISTOR.
FA ANNUN	FIRE ALARM ANNUNCIATOR PANEL.
PB	PULLBOX, WEATHERPROOF.
SLN	SIGNALLING LINE CIRCUIT.

FIRE ALARM CABLE AND WIRING

"F" CABLE - "WEST PENN" NO. D980, 1 PAIR #18 NON-SHIELDED - FIRE ALARM ADDRESSABLE LOOP.

"FW" CABLE - "WEST PENN" NO. AQC225, 2 PAIR #16 NON-SHIELDED - FIRE ALARM ADDRESSABLE LOOP (UNDERGROUND).

"A" CABLE - #2/14 TWISTED PAIR, AUDIO CABLE.

"AW" CABLE - #2/14 TWISTED PAIR, AUDIO CABLE WET LOCATION (AUDIO).

"V" CABLE - #2/12 AWG-FIRE ALARM VISUAL CIRCUIT CABLE.

—F,A,V— 3/4"C, WITH ONE "F" CABLE, ONE "N" CABLE AND ONE "V" CABLE.

—F— 3/4" CONDUIT WITH ONE "F" CABLE.

—2F— 3/4" CONDUIT WITH TWO "F" CABLES.

—V— 3/4" CONDUIT WITH ONE "V" CABLE.

—2V— 3/4" CONDUIT WITH TWO "V" CABLES.

—A— 3/4" CONDUIT WITH ONE "A" CABLE.

—2A— 3/4" CONDUIT WITH TWO "A" CABLES.

—AW— 3/4" CONDUIT WITH ONE "AW" CABLE.

—2AW— 3/4" CONDUIT WITH TWO "AW" CABLES.

—2F,2A,2V— 1-1/2" CONDUIT WITH TWO "F", TWO "A", TWO "V" CABLES.

—2A,2V— 1" CONDUIT WITH TWO "A", TWO "V" CABLES.

—F,A,2V— 1" CONDUIT WITH ONE "F", ONE "A", TWO "V" CABLES.

—WF— W700 WIREMOLD WITH ONE "F" CABLE.

—WF2— W700 WIREMOLD WITH TWO "F" CABLE.

—WA— W700 WIREMOLD WITH ONE "A" CABLE.

—WV— W700 WIREMOLD WITH ONE "V" CABLE.

SYMBOLS	COMPONENT	MANUFACTURER	CSFM NO.
	(E) MAIN FIRE ALARM CONTROL PANEL	NOTIFIER	EXISTING
	SMOKE DETECTOR, PHOTOELECTRIC TYPE SMOKE DETECTOR BASE	FSP-951 B300-6	7272-0028:0503 7300-1653:0109
	HORN STROBE, WALL MOUNT	SYSTEM SENSOR SRL P2WL/P2RL	7125-1653:0503

ELECTRICAL DEMOLITION WORK

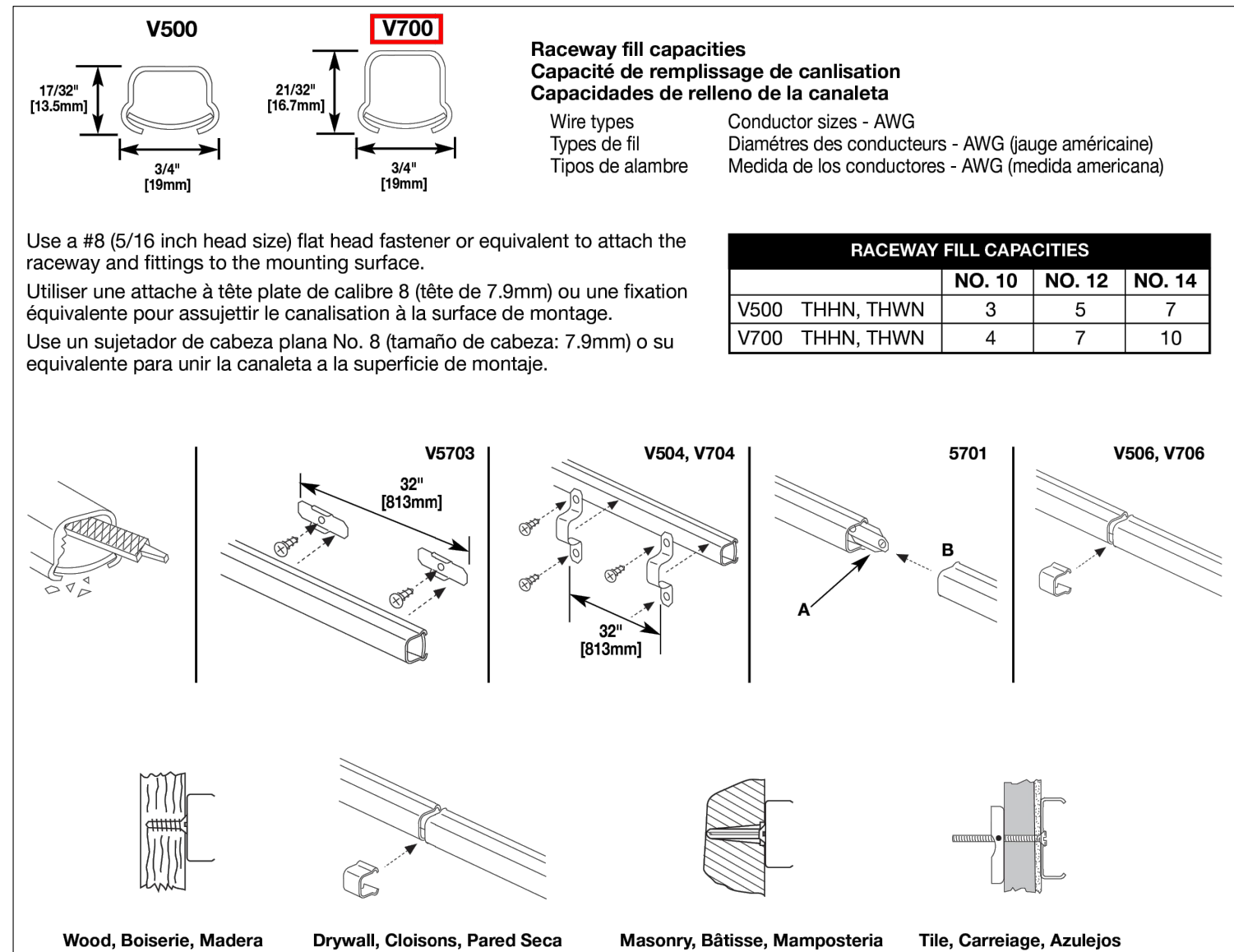
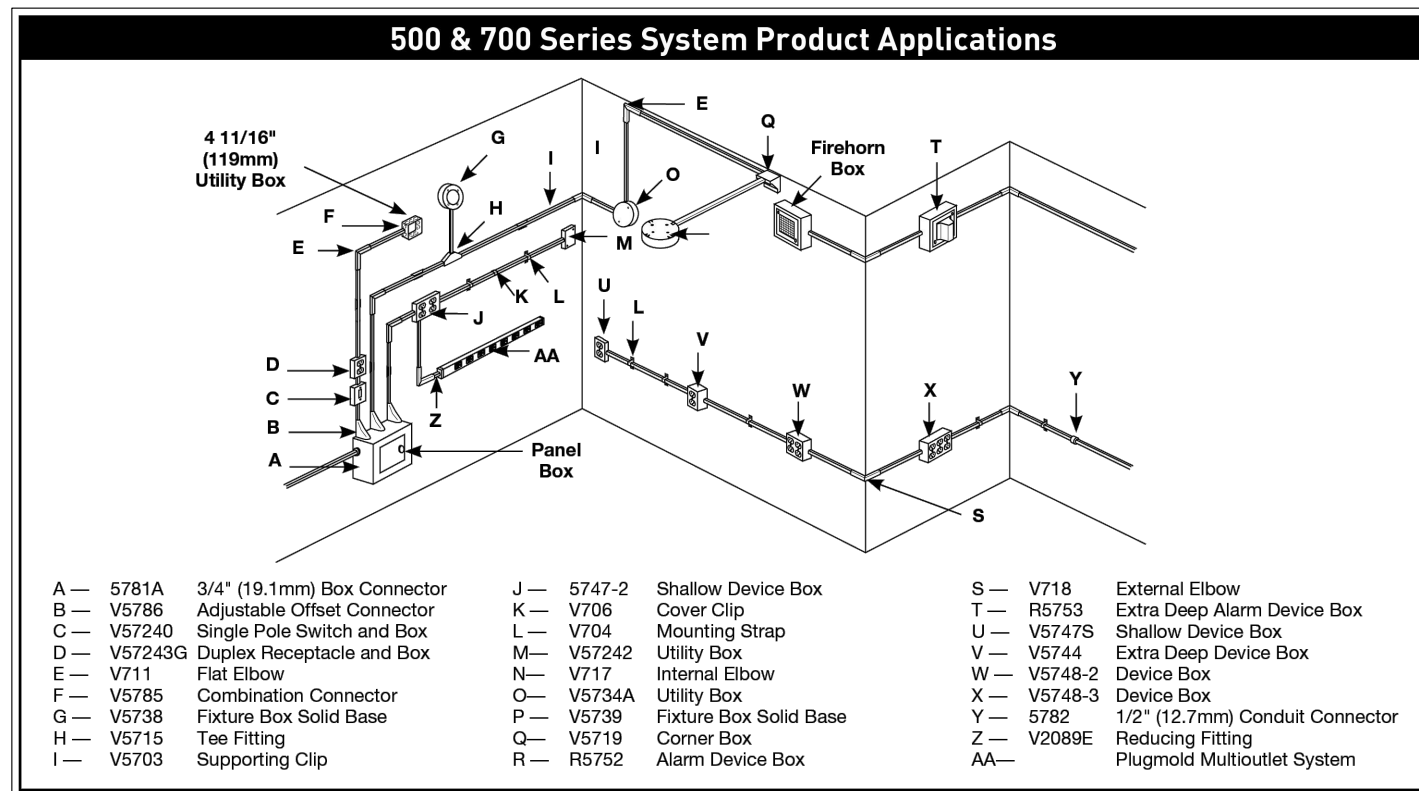
- EXISTING FIRE ALARM SYSTEM SHALL REMAIN OPERATIONAL UNTIL THE NEW SYSTEM IS ACCEPTED BY SCHOOL DISTRICT; OTHERWISE HUMAN 24 HOURS FIRE WATCH SHALL BE PROVIDED BY FIRE ALARM CONTRACTOR.
- REMOVAL AND/OR RELOCATION OF FIRE ALARM DEVICES AND CONDUITS/WIRES AS INDICATED IN THE DRAWINGS.

GENERAL FIRE ALARM NOTES

- THE SYSTEM SHALL CONFORM TO CALIFORNIA CODE OF REGULATIONS (CCR) TITLES 19 & 24 AS APPLICABLE TO THIS PROJECT.
- UPON COMPLETION OF WORK, THE SYSTEM SHALL BE TESTED IN THE PRESENCE OF AND IN A MANNER ACCEPTABLE TO DSA/IO. CONTRACTOR TO SUPPLY NECESSARY TESTING EQUIPMENT INCLUDING A "TICOMETER" TO CHECK ACCEPTABLE NOISE LEVELS OF AUDIBLE DEVICES, PROVIDE TEST RESULTS PER NFPA 72 TO ARCHITECT, DSA, INSPECTOR OF RECORD, OWNER AND TO THE LOCAL FIRE AUTHORITY.
- PENETRATIONS OF ALL FIRE-RATED WALLS SHALL BE PROTECTED IN ACCORDANCE WITH THE CALIFORNIA BUILDING CODE, PART 2.
- RECORD RECEIPT OF ALL SIGNALS TO CENTRALS STATION MONITOR.
- CHANGES TO THE APPROVED DRAWINGS AND SPECIFICATIONS SHALL BE MADE BY AN ADDENDUM OR A CONSTRUCTION CHANGE DOCUMENT (CCD) APPROVED BY THE OFFICE OF THE STATE ARCHITECT, AS REQUIRED BY SECTION 4-338, PART 1, TITLE 24, CCR.
- SPEAKER INTELLIGIBILITY SHALL BE MEASURED AND PART OF ACCEPTANCE TEST.
- LOCATION AND PLACEMENT OF FIRE ALARM DEVICES ARE NOT TO BE CONSIDERED DIAGRAMMATIC IN NATURE. ANY CHANGE IN THE LOCATION OR PLACEMENT OF BOTH DETECTION AND NOTIFICATION DEVICES MUST BE REVIEWED AND APPROVED BY DSA, FLS, FINAL APPROVAL OF DEVICE PLACEMENT IS SUBJECT TO FIELD VERIFICATION OF CODE COMPLIANCE.
- ALL WIRING, INITIATING DEVICES AND ANNUNCIATOR PANEL SHALL BE SUPERVISED TO THE PRINCIPAL POINT OF ANNUNCIATION.
- WIRING SHALL BE LOOPED THROUGH DEVICES. WIRES MUST BE CUT FOR IN AND OUT.
- POINT AND COMMON ANNUNCIATION AND T-TAPPING PROHIBITED.
- ALL TERMINATIONS IN TERMINAL CABINETS SHALL BE ON TERMINAL BLOCKS.
- EXISTING FIRE ALARM SYSTEM SHALL REMAIN OPERATIONAL UNTIL THE NEW SYSTEM IS ACCEPTED BY SCHOOL DISTRICT; OTHERWISE HUMAN 24 HOURS FIRE WATCH SHALL BE PROVIDED BY FIRE ALARM CONTRACTOR.

GENERAL NOTES

- "THE FIRE ALARM SYSTEM SHALL CONFORM TO ARTICLE 760 OF THE CALIFORNIA ELECTRICAL CODE, CURRENT CALIFORNIA TITLE 24 REQUIREMENTS, CALIFORNIA FIRE CODE, NFPA 72 AND 101 STANDARDS, AMERICAN WITH DISABILITY ACT (ADA) REQUIREMENTS."
- "ANY DISCREPANCIES BETWEEN THE DRAWINGS AND THE CODE(S), OR ANY RECOGNIZED STANDARDS SHALL BE BROUGHT TO THE ATTENTION OF LAUSD ARCHITECT/ENGINEER OF RECORD PRIOR TO COMMENCING ANY WORK."
- "SPECIFIC COMPONENTS ON CATALOG CUT SHEETS MUST BE HIGHLIGHTED, OR IDENTIFIED."
- CONSULT WITH THE DISTRICT'S ELECTRICAL INSPECTOR BEFORE STARTING WORK.
- ALL EXPOSED CONDUITS AND BOXES WITH THE EXCEPTION OF THOSE IN UNOCCUPIED AREAS LIKE JANITOR OR UTILITY ROOMS, SHALL BE PAINTED PER SPECIFICATION 09 9013.
- ALL EXISTING MATERIALS REMOVED FROM BUILDINGS SHALL BE REMOVED FROM SITE AS DIRECTED BY THE I.O.R.
- WHERE EXISTING STRUCTURAL WALLS ARE CORED FOR NEW CONDUIT RUNS, SEPARATION BETWEEN CORED HOLES SHALL BE THREE INCHES FROM NEW OR EXISTING HOLES, UNLESS DIRECTED OTHERWISE BY THE ENGINEER.
- THE REPRESENTATION OF PHYSICAL PLACEMENT OF EXISTING CONDUITS HAS BEEN DEVELOPED FROM THE BEST INFORMATION AVAILABLE TO THE DISTRICT AT THE TIME THE DRAWINGS WERE PREPARED. THE DISTRICT PROVIDES THIS ONLY AS A GENERAL GUIDELINE FOR THE CONVENIENCE OF BIDDERS/CONTRACTORS AND DOES NOT GUARANTEE OR WARRANT IN ANY WAY EXPRESSLY OR IMPLIEDLY, THE ACCURACY OF THESE REPRESENTATIONS. NOTHING IN THIS DISCLAIMER AFFECTS IN ANY WAY THE DUTY OF THE CONTRACTOR TO FURNISH ACCURATE "AS BUILT" DRAWINGS AFTER THE COMPLETION OF THE CONTRACT.
- IN EXISTING BUILDINGS, CONTRACTORS SHALL NOT WORK IN AREAS CONTAMINATED BY MATERIALS MADE OF ASBESTOS UNTIL THE ASBESTOS MATERIALS HAVE BEEN REMOVED OR ENCAPSULATED.
- REFER TO THE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS AND EQUIPMENT AND MATERIAL APPROVED FOR USE UNDER THIS CONTRACT.



GENERAL NOTES (CONT.)

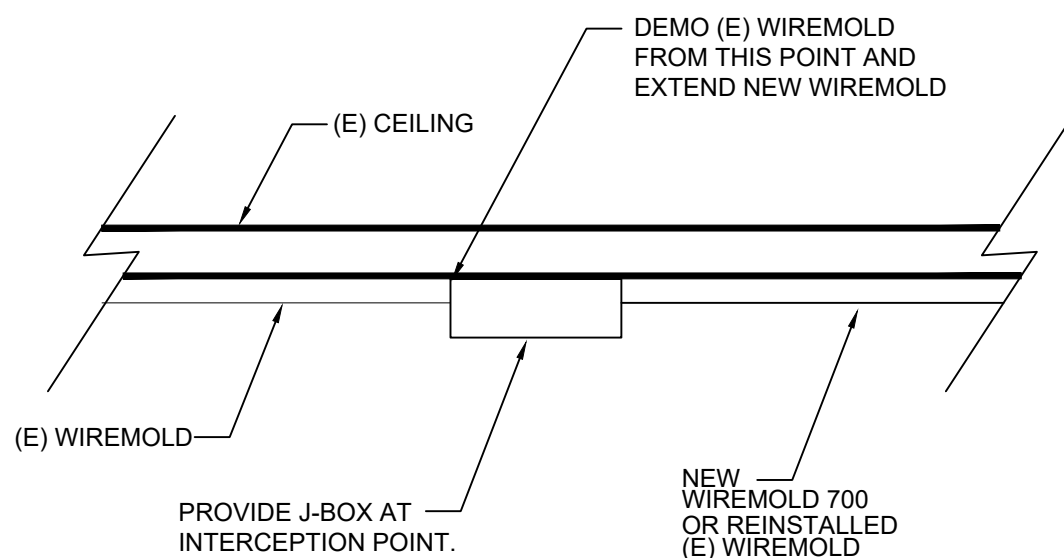
- QUANTITY OF WIRES SHOWN IN ALL CONDUITS IS FOR GENERAL GUIDELINE. SUPPLIER OF FA SYSTEM SHALL PREPARE AND SUBMIT A WIRING SCHEDULE SHOWING SHOWING ALL NECESSARY WIRES AND CABLES AND VERIFY SIZES OF ALL CONDUITS SHOWN.
- DRAWINGS DO NOT SHOW ALL THE NECESSARY J-BOXES AND PULL BOXES WHICH WILL BE REQUIRED THROUGHOUT. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE ALL THESE BOXES AS NECESSARY TO TERMINATE CONDUITS AND RACEWAYS. PAINT BOXES PER REQUIREMENTS IN SPECIFICATION 09 9013.
- ALL JUNCTION BOXES AND DEVICES INDICATED ON BUILDING EXTERIORS SHALL BE WEATHERPROOF TYPE.
- FIRE ALARM WIRES SHALL BE COPPER TYPE THW/THHN.
- ALL SIGNAL WIRING IN UNDERGROUND CONDUITS SHALL BE WET LOCATION TYPE.
- WHEN ALL FIRE ALARM DEVICES ARE INSTALLED AND PROGRAMMING IS COMPLETE, THE FIRE ALARM DEVICE MAP IN THE SCHOOL MAIN OFFICE SHALL BE UPDATED TO INDICATE TO SCHOOL PERSONNEL THE LOCATIONS OF THE NEW DEVICES.
- SPLICING OF FA SYSTEM WIRING IS NOT ALLOWED. JUNCTION BOXES SHALL NOT CONTAIN SPLICES. CONDUCTORS SHALL BE PULLED THROUGH TERMINATIONS SHALL BE PERFORMED, ON DEVICE TERMINALS. TERMINAL BLOCKS IN CABINETS AND EQUIPMENT TERMINALS.
- PRIOR TO RELEASING THE FIRE ALARM CONTRACTOR, A REGULATION 4 TEST REQUIRED BY CITY OF LOS ANGELES FIRE DEPARTMENT SHALL BE PERFORMED AND A PERFORMANCE CERTIFICATE GENERATED.
- "LABEL DESCRIPTIONS" INDICATING DEVICE TYPE AND LOCATION THAT ARE DISPLAYED ON THE FIRE ALARM LCD DISPLAY SHOULD BE CLEAR AND EASILY UNDERSTOOD BY THE OFFICE STAFF. DESCRIPTIONS SHOULD BE BASED ON THE STAFFS UNDERSTANDING OF THE SITE AND NOT ON INFORMATION TAKEN FROM PRINTS.
- PROVIDE 24 HOURS FIRE WATCH DURING CONSTRUCTION. SHOULD EXISTING SYSTEM NEED TO BE INTERRUPTED. INCLUDE ALL COST IN ORIGINAL BID.
- WIREMOLD FILL SHALL BE PER MANUFACTURER'S RECOMMENDATION.
- THE FIRE ALARM SYSTEM SHALL CONTAIN ALL PRINTED CIRCUIT BOARDS, PROGRAMMING, MODULES, CABLES, HARDWARE OR OTHER EQUIPMENT TO SUPPORT THE OPERATION OF A SYSTEM PRINTER. IF A SYSTEM PRINTER IS NOT INDICATED TO BE PART OF THE FIRE ALARM PROJECT THEN THE PRINTER PORT MAY BE PROGRAMMED AS ENABLED BUT NOT SUPERVISED.
- THE COLOR CODE FOR WIRE INSULATION IN THE LOW VOLTAGE SPECIFICATIONS MUST BE FOLLOWED. LAUSD SPECIFICATION 260519.
- IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THE TYPE OF CEILING CONSTRUCTION AND TO PROVIDE THE PROPER TYPE OF BOX MOUNTING AND SUPPORT FOR FIRE ALARM INITIATION DEVICES.
- MAINTAIN EXISTING SYSTEM AS LONG AS POSSIBLE. PROVIDE 24 HOUR FIRE WATCH WHEN EXISTING SYSTEM IS NO LONGER ACTIVE AND UNTIL NEW SYSTEM IS ACCEPTED BY DSA INSPECTOR AND OAR. CONTRACTOR SHALL BE RESPONSIBLE FOR FIRE WATCH OR OTHER MITIGATING MEASURES FOR SYSTEMS THAT ARE MADE INACTIVE OR OTHERWISE COMPROMISED AS A RESULT OF THE WORK PERFORMED BY THAT CONTRACTOR.
- ANY DAMAGE CAUSED BY DEMOLITION OPERATIONS TO ADJACENT FACILITIES SHALL BE PROMPTLY REPAIRED AT NO ADDITIONAL COST TO THE LAUSD. ALL ITEMS MOVED OR TEMPORARILY DISASSEMBLED SHALL BE REASSEMBLED OR REASSEMBLED TO AT LEAST THE CONDITION IN LIKE QUALITY PRIOR TO REMOVAL OR DISASSEMBLY.
- FIRE WATCH IF REQUIRED SHALL CONFORM TO 2022 CALIFORNIA FIRE CODE ARTICLE 87, THE CITY OF LOS ANGELES FIRE CODE DIVISION 13 (FOR LA CITY SITES), AND LAUSD PROCEDURE G-P-2. FIRE WATCH SHOULD BE USED CAREFULLY SINCE THIS IS AN UNOCCUPIED SITE AND THE LOS ANGELES FIRE DEPARTMENT HAS INDICATED THAT THEY WILL NOT APPROVE A FIRE WATCH FOR A PROJECT THAT IS RUNNING BEHIND SCHEDULE AND THE FIRE WATCH IS USED TO MITIGATE THE PROBLEMS WITH THAT SCHEDULE.
- T-TAPPING OF INITIATING LOOP CABLE FOR ADDRESSABLE INITIATING DEVICE ARE NOT ALLOWED. WIRING SHALL BE LOOP IN AND OUT BETWEEN DEVICES.
- FURNISH TO IOR FOR REVIEW AND ACCEPTANCE PRIOR OF START OF ANY WORK COORDINATION PLANS CLEARLY DEPICTING LOCATION OF (N) SURFACE MOUNTED (EXPOSED) RACEWAYS (WIREMOLD), TCS, IBS OR PATHWAYS. EXPOSED/SURFACE MOUNTED PATHWAYS SHALL BE ROUTED IN SUCH A MANNER AS TO AVOID CONFLICTS WITH SURFACE MOUNTED OBJECTS AND TO MINIMIZE INTRUSIVENESS ON DECORATED.

CONSTRUCTION NOTES

- DEMOLISH/PATCH/REPAIR/REPLACE AS REQUIRED, ALL EXISTING CONSTRUCTION, FINISHES, LANDSCAPING, AND SITE CONSTRUCTION AFFECTED BY NEW WORK TO MATCH EXISTING. ADJACENT CONSTRUCTION COMPLETE. PREPARE & PAINT AFFECTED SURFACES AS REQUIRED, ENTIRE SURFACE PLANE, UNLESS NOTED OTHERWISE.
- EXISTING ARCHITECTURAL, STRUCTURAL, MECHANICAL, ELECTRICAL, CIVIL, OR LANDSCAPE COMPONENTS INCLUDING BUT NOT LIMITED TO SITE PAVING, CURBS, CONCRETE WALKWAYS, PLANTERS/PLANTING/TREES, AND UNDERGROUND UTILITIES TO REMAIN UNLESS NOTED OTHERWISE. COMPONENTS TO REMAIN WHICH ARE REMOVED BY CONTRACTOR IN THE PERFORMANCE OF THE SCOPE OF WORK FOR ANY REASON ARE TO BE REPLACED TO MATCH EXISTING AT CONTRACTOR'S EXPENSE.
- REMOVE, STORE, CLEAN AND PROTECT EXISTING FURNISHINGS, EQUIPMENT, CABINETS, ETC. AS REQUIRED TO PERFORM SCOPE OF WORK. PATCH, REPAIR, PAINT, REINSTALL OR REPLACE AS REQUIRED TO MATCH EXISTING.
- VERIFY ALL PAINT COLOR SELECTIONS WITH DISTRICT O.A.R. PRIOR TO APPLICATION. REFER TO ARCHITECTURAL FINISH SCHEDULE, PAINT MATERIALS, SHEEN, AND PROCEDURE PER 09 9000 & 09 2000.
- BIDDER MAY OBTAIN A SET OF AVAILABLE RECORD DRAWINGS FROM LAUSD AS REQUIRED. CONTRACTOR SHALL USE DRAWINGS AS GENERAL GUIDELINE TO GENERALLY LOCATE EXISTING UNDERGROUND UTILITY LINES (ELECTRIC CONDUITS, PIPING, SPRINKLER LINES, SEWER LINES, ETC.). CONTRACTOR SHALL VERIFY EXACT LOCATION OF ALL LINES IN FIELD PRIOR TO TRENCHING. USE ELECTRONIC LOCATING DEVICES. USE DIG ALERT SERVICE, ETC. INCLUDE THIS LOCATING WORK IN BID. BE RESPONSIBLE FOR REPAIRING ANY DAMAGED LINES.
- SEAL AND CAULK AS REQUIRED AT ALL PENETRATIONS. WHEREVER POSSIBLE, CONCEAL NEW CONDUITS AND BOXES IN CEILING, ATTIC, SPACE OR WALLS. FISH CONDUITS INSIDE OF STUD WALLS WHERE POSSIBLE. WHERE EXPOSED RACEWAYS AND BOXES HAVE TO BE USED IN FINISHED AREAS, USE "WIREMOLD" TYPE SURFACE RACEWAYS. FOR ONE SD PER CLASSROOM, RUN THE WIREMOLD FROM WALL, BOX UP TO THE SD ONLY. FOR TWO SD PER CLASSROOM, LOCATE THE TWO SD CLOSER TO WALLS WITH A CENTER-TO-CENTER SPACE BETWEEN SD IN COMPLIANCE WITH NFPA-72 AND USE A SHORT PIECE OF WIREMOLD FROM EACH WALL J-BOX TO EACH SD. DO NOT RUN WIREMOLD ACROSS THE CEILING BUT RUN ALONG WALLS.
- WHEN RUNNING WIREMOLD RACEWAYS, RUN RACEWAYS HIGH ON WALL AT CEILING LINE OR LOW NEAR FLOOR AND SWEEP DOWN OR UP TO DEVICES. TAKE CARE TO MAKE INSTALLATION NEAT AND UNOBJECTIONABLE. DRAWINGS DO NOT SHOW NECESSARY INTERMEDIATE BOXES. INCLUDE ALL NECESSARY FITTINGS, PULL AND J-BOXES IN BID.
- VERIFY CONDUIT STUB UP AREAS OUTSIDE ALL BUILDINGS AND STUB UP AT BEST AREAS TO AVOID EXISTING WINDOWS, VENTS, ETC.
- PERFORM THE NECESSARY DEMOLITION WORK WITH GREAT CARE AND WITH SMALL TOOLS IN ORDER NOT TO JEOPARDIZE EXISTING STRUCTURE AND EQUIPMENT TO REMAIN.
- IF STRUCTURAL MEMBERS NOT INDICATED TO BE REMOVED ARE INTERFERING WITH NEW CONSTRUCTION, OBTAIN WRITTEN AUTHORIZATION FROM ARCHITECT BEFORE REMOVING SUCH MEMBERS. DSA APPROVAL REQUIRED.
- COORDINATE THE DEMOLITION WORK AND NEW CONSTRUCTION TO PERMIT CONTINUED OPERATION OF ALL FACILITIES NECESSARY TO BE KEPT IN OPERATION.
- PROVIDE ALL NECESSARY SHORING WHEREVER NEW CONSTRUCTION WORK CAN JEOPARDIZE EXISTING STRUCTURES. REMOVE EXISTING CONSTRUCTION TO THE BASE OF MATERIALS TO THE EXTENT 14. NECESSARY FOR THE INSTALLATION OF NEW WORK. HEAT DETECTORS INSTALLED ABOVE SUSPENDED CEILING MUST HAVE THEIR LOCATIONS 16. CLEARLY MARKED BELOW THE CEILING AND BE EASILY ACCESSIBLE. LABEL LETTERING SHOULD BE 1/2" HIGH, RED ON WHITE BACKGROUND AND BOLD ENOUGH TO BE EASILY SEEN BY PERSONNEL FROM THE FLOOR.
- FIRE ALARM SYSTEM CONDUIT SHALL NOT BE USED FOR ANY OTHER WIRING. PROVIDE ACCESS PANEL AT EACH NEW HEAT DETECTOR INSTALLED INSIDE ATTIC OR CEILING 17. SPACE EXCEPT IN T-BAR CEILING AREAS. INCLUDE IN BID TO PROVIDE TEMPORARY ACCESS OPENING AT NON-T-BAR CEILING AREAS TO INSTALL CONDUITS AND BOXES FOR FIRE ALARM SYSTEM AND PATCH TO MATCH EXISTING FINISH AFTER INSTALLATION. CUT WALL AND MODIFY CEILING AS REQUIRED DURING CONDUITS/BOXES INSTALLATION AND PATCH TO MATCH EXISTING. SEE ACCESS DOOR DETAIL ON FA-002. REPLACE DAMAGED CEILING TILES AND CEILING TILES WITH HOLES DUE TO REMOVAL. 18. OF EXISTING DEVICES, J-BOX, CONDUITS, WIREMOLD RACEWAYS & ETC.
- NO ATTACHMENT SHALL BE MADE WITHIN PROTECTED ZONES OF LFPS (LATERAL FORCE RESISTING SYSTEM), SUCH AS STEEL MOMENT FRAME BEAM TO COLUMN CONNECTIONS OR STEEL BRACED FRAME BRACES AND GUSSET PLATE CONNECTIONS. COORDINATE THE LOCATIONS OF THE PROTECTED ZONES WITH THE SEOR.
- PIPES OR CONDUITS SHALL NOT BE EMBEDDED IN ANY FLOOR SLAB, WALL OR FOOTING.
- UNLESS SPECIFICALLY APPROVED ON THE DRAWINGS, NO STRUCTURAL MEMBER SHALL BE ALTERED BY CUTTING, BORING, BRAZING, DRILLING, NOTCHING, WELDING AND ETC. WITHOUT THE SEOR AND DSA REVIEW AND WRITTEN APPROVAL BY THE ARCHITECT.

SCOPE OF WORK

- FIRE ALARM CONTROL PANEL IS EXISTING TO REMAIN.
- REMOVE AND REINSTALL EXISTING FIRE ALARM STROBES/SMOKE DETECTORS IN AFFECTED RESTROOMS. RE-ACCEPTANCE TESTING PER NFPA 72. ALL DEVICES ON THE AFFECTED LOOP/CIRCUIT MUST BE TESTED, PLUS 10% OF THE REST OF THE FIRE ALARM SYSTEM DEVICES.



WIREMOLD INTERCEPTION DETAIL

N.T.S.

1
FA001

AGENCY

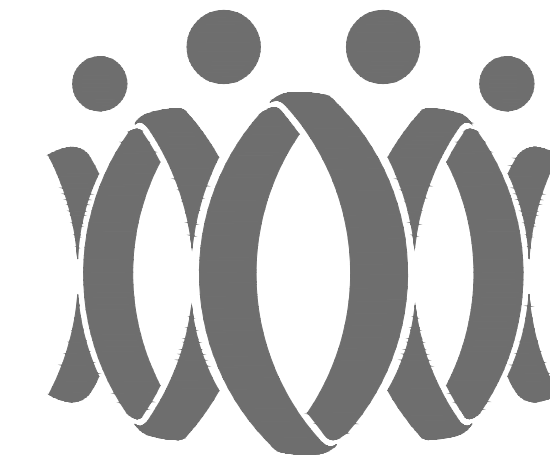
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architecture planning interiors

HEADQUARTERS OFFICE:

99 S. Lake Avenue, Suite 300
Pasadena, CA 91101
Phone: 323.543.8300
E-Mail: fm-pasadena@flewelling-moody.com

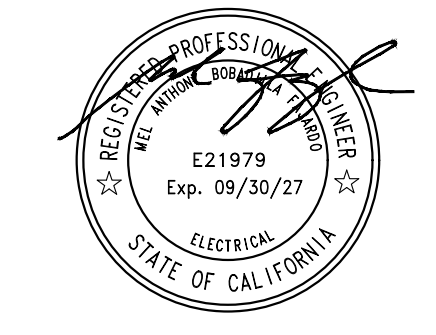
ANTELOPE VALLEY OFFICE:

1035 West Lancaster Boulevard
Lancaster, California 93534
Phone: 661.949.0771
E-Mail: fm-lancaster@flewelling-moody.com

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CONSULTANT



PACIFIC ENGINEERS GROUP
Consulting MEPP Engineers
1108 W. Magnolia Blvd., Suite A
Burbank, CA 91506
(818) 859-7081 Y25-033
info@pegpgroup.net

Drawn by: HY

Check by: AF

Revisions

No.	Date	Description

PASADENA UNIFIED SCHOOL DISTRICT

MARSHALL FUNDAMENTAL SCHOOL
TOILET ROOMS MODERNIZATION &
ADA UPGRADES

990 ALLEN AVE PASADENA, CA 91104

Drawing Title

FIRE ALARM SYMBOL
LIST AND GENERAL
NOTES

Job No.

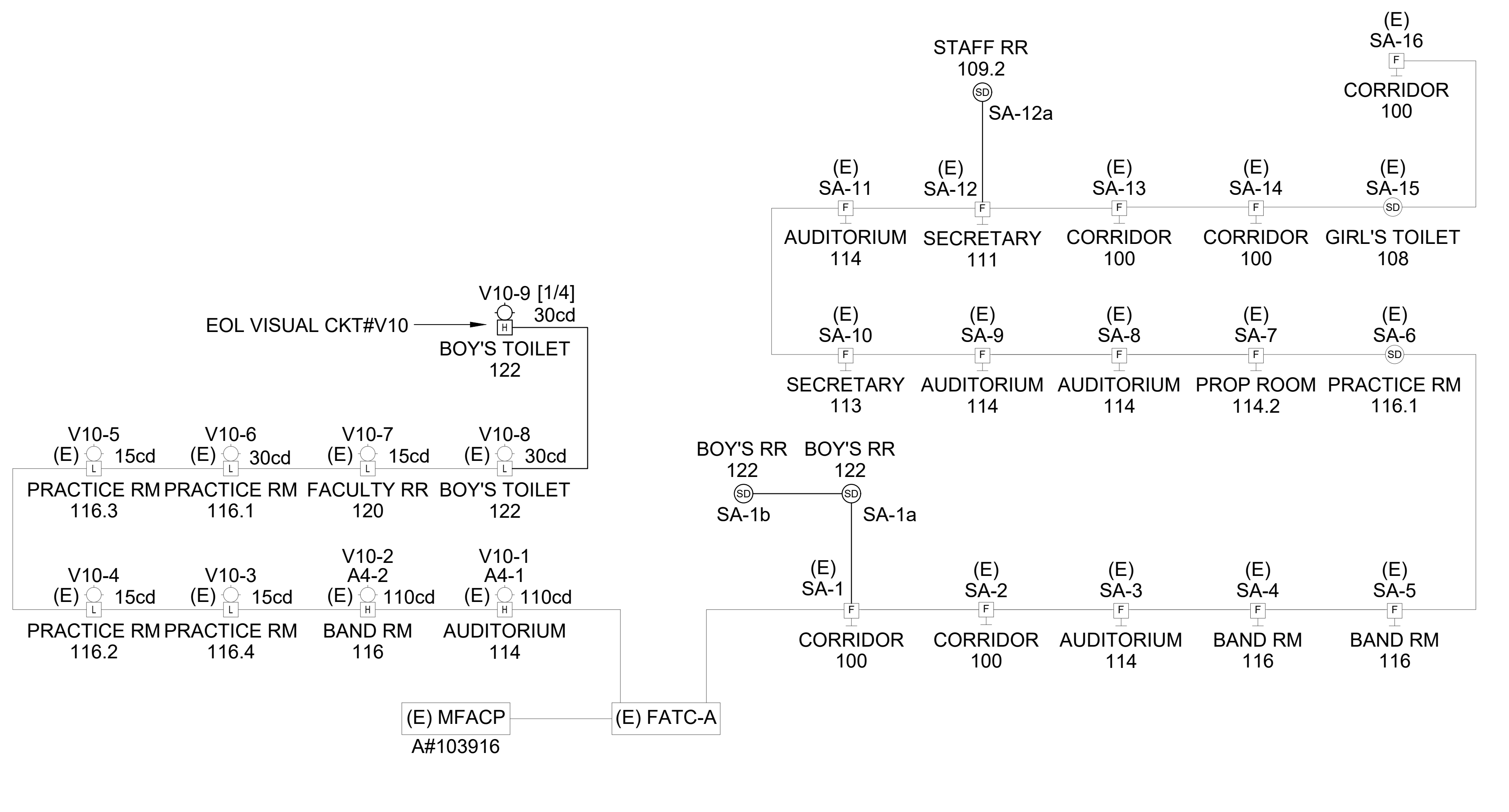
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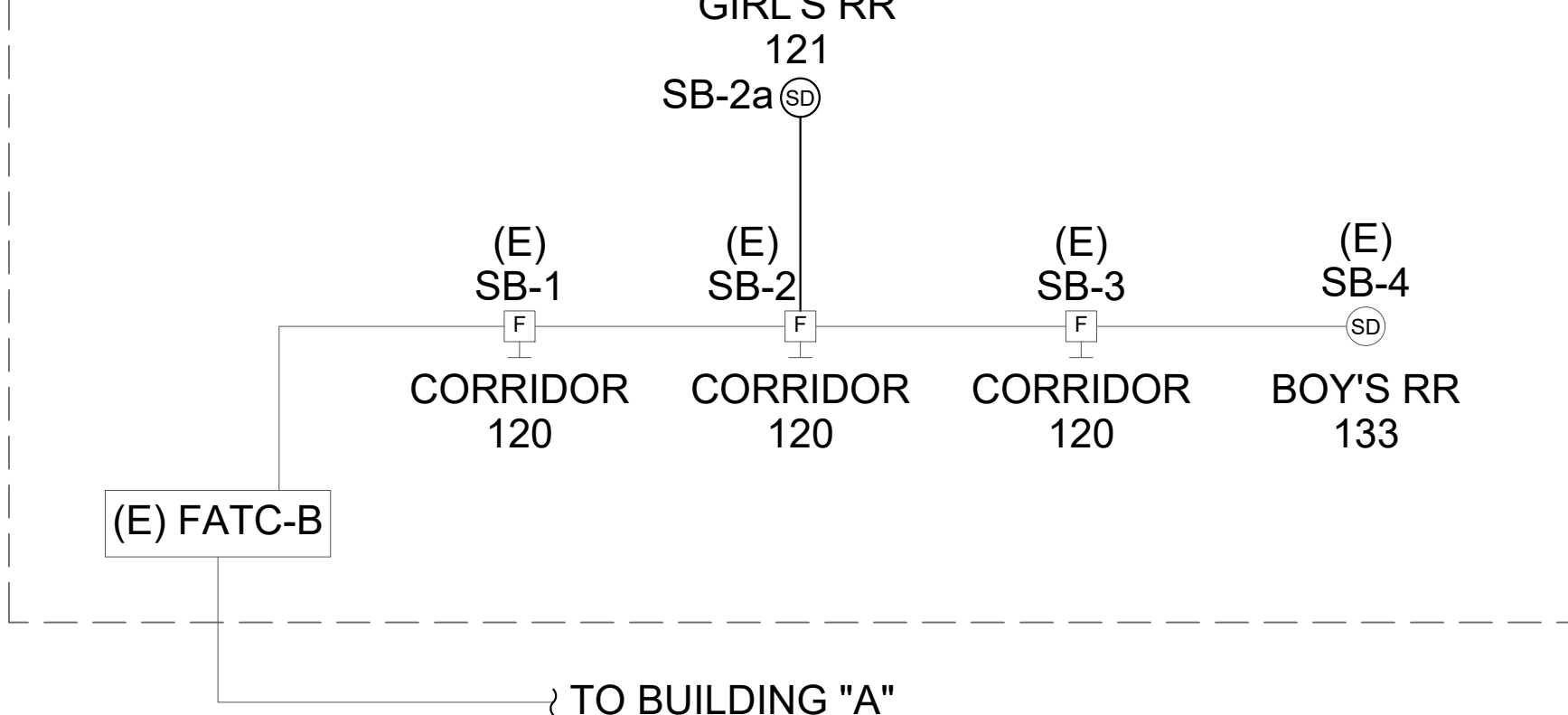
FA0.01

Date
03/24/2026

BUILDING "A"



BUILDING "B"



BATTERY SIZING CALCULATION

(E) MFCAP NFS-3030						
Quantity	Device Type	Standby Current	Total Standby Current	Alarm Current	Total Alarm Current	
1	(E) NFS-3030	0.34	0.34	0.34	0.34	
4	(E) PS-APS-6R	0.025	0.1	0.025	0.1	
1	(E) UDACT	0.04	0.04	0.1	0.1	
1	(E) HEAT-FDX-551	0.0002	0.0002	0.0002	0.0002	
20	(E) SMOKE-SDX-551	0.0002	0.0038	0.002	0.038	
10	(E) WDD-M-MMX-101	0.0003	0.003	0.0003	0.003	
59	(E) MINI-HORN-CX-90-4WR	0.00000	0.00000	0.015	0.885	
77	(E) HORN-SHG-24	0.00000	0.00000	0.017	1.309	
31	(E) HORN-MA-24(WP)	0.00000	0.00000	0.035	1.085	
76	(E) STROBE-15CD	0.00000	0.00000	0.06	4.56	
47	(E) STROBE-30CD	0.00000	0.00000	0.084	3.948	
47	(E) STROBE-75CD	0.00000	0.00000	0.132	6.204	
23	(E) STROBE-110CD	0.00000	0.00000	0.173	3.979	
1	(E) ANNUNCIATOR	0.05	0.05	0.1	0.1	
15	(N) SMOKE DETECTOR	0.0004	0.006	0.0004	0.006	
1	(N) HORN STROBE - 30CD	0.00000	0.00000	0.094	0.094	
		Standby Load	0.543	Alarm Load	22.7512	
		Standby Time: 24 Hours		Alarm Time: 15 Minutes		
		Total Standby Load: 13.032 Amp*Hours		Total Alarm Load: 1.895 Amp*Hours		
		(E) Batteries Provided: (1) 26AH		Available Battery: 20.8 A.H.		
		(E) Battery Size: 26.00 A.H.		Load (ALM + STBY): 14.927 A.H.		
		De-Rated Size(80%): 20.8 A.H.		Spare Capacity: 5.873 A.H.		

FIRE ALARM SEQUENCE OF OPERATION

DEVICE / ACTION	MANUAL PULL STATION	AREA SMOKE DETECTOR	AREA HEAT DETECTOR	POWER FAILURE	NOTES
ANNUNCIATE ALARM AT FACP AND REMOTE ANNUNCIATOR	X	X	X		
ANNUNCIATE SUPERVISORY CONDITION AT FACP AND REMOTE ANNUNCIATOR	X	X	X	X	
ANNUNCIATE TROUBLE AT FACP AND REMOTE ANNUNCIATOR	X	X	X	X	[1]
ACTIVATE AUDIBLE/VISUAL SIGNAL THROUGHOUT SCHOOL (ALARM)	X	X	X		
CONTACT CENTRAL STATION (UDACT)	X	X	X	X	
SHUT DOWN AIR HANDLING EQUIPMENT	X	X	X		[2]

[1] INDICATE TROUBLE ON WIRING FAULT OR DEVICE AS REQUIRED.

[2] SHUT DOWN ONLY AIR HANDLER EQUIPMENT IN THE BUILDING OR AREA WHERE ALARM CONDITION OCCURS.

FIRE ALARM SIGNAL CIRCUIT SCHEDULE

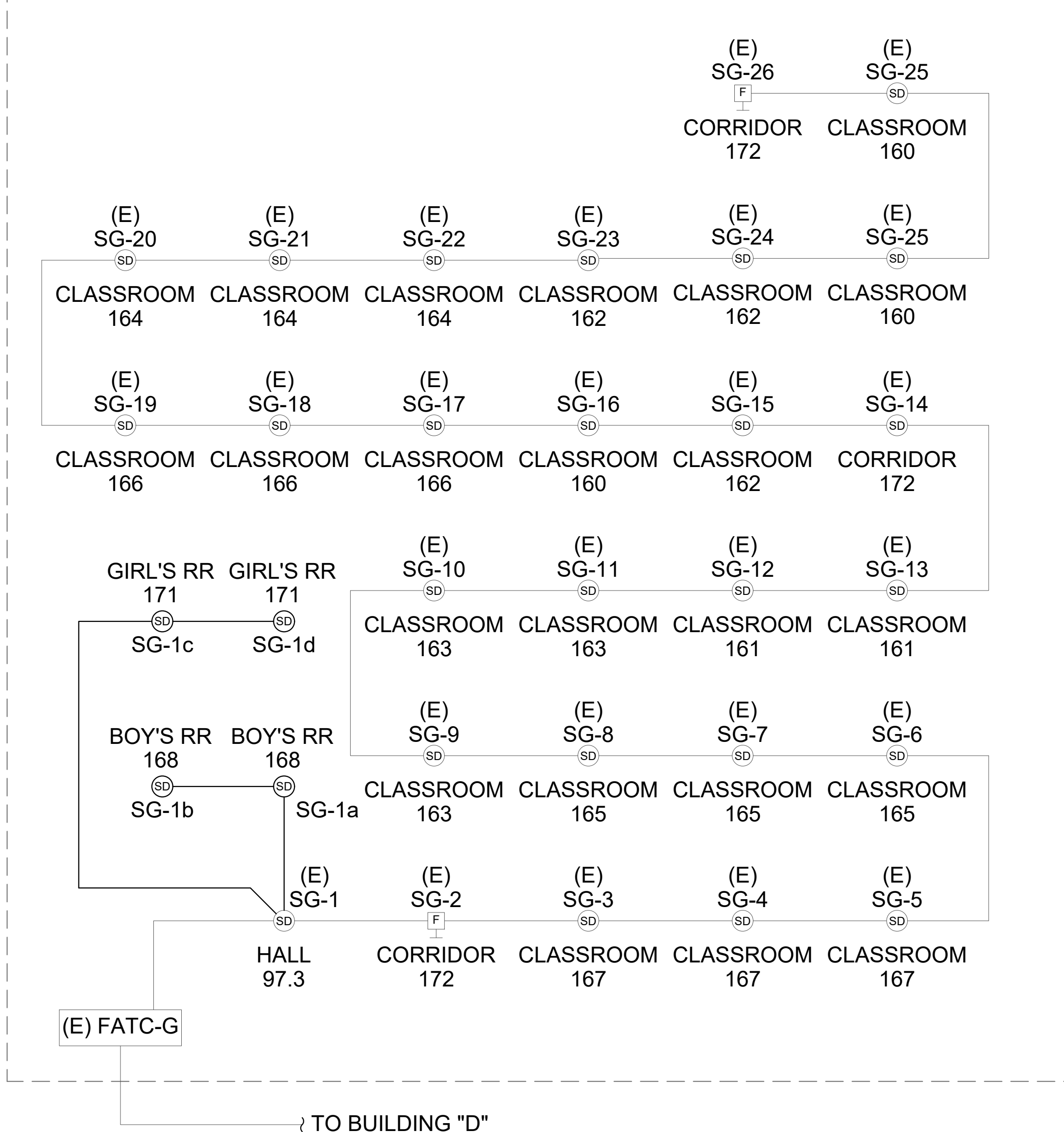
CKT. NO.	(E)QUAN. STROBE 15 cd	(E)QUAN. STROBE 30 cd	(E)QUAN. STROBE 75 cd	(E)QUAN. STROBE 110 cd	QUAN. HORN/STROBE 30 cd	TOTAL AMPS	WIRE SIZE	WIRE RESISTANCE	DISTANCE (IN FEET)	VOLTAGE DROP	VOLTAGE DROP %	OPERATING VOLTAGE
EXISTING V10	4	2	0	2	1	0.848	#12	2.01	600	2.05	8.52	21.95

VOLTAGE DROP FOR A GIVEN LENGTH OF CONDUCTOR
OPERATING VOLTAGE
VOLTAGE DROP %
= (I) X ((L/1000) X (OHM/KFT)) X 2
= SYSTEM VOLTAGE(24) - VOLTS
= VOLTS X 100
24

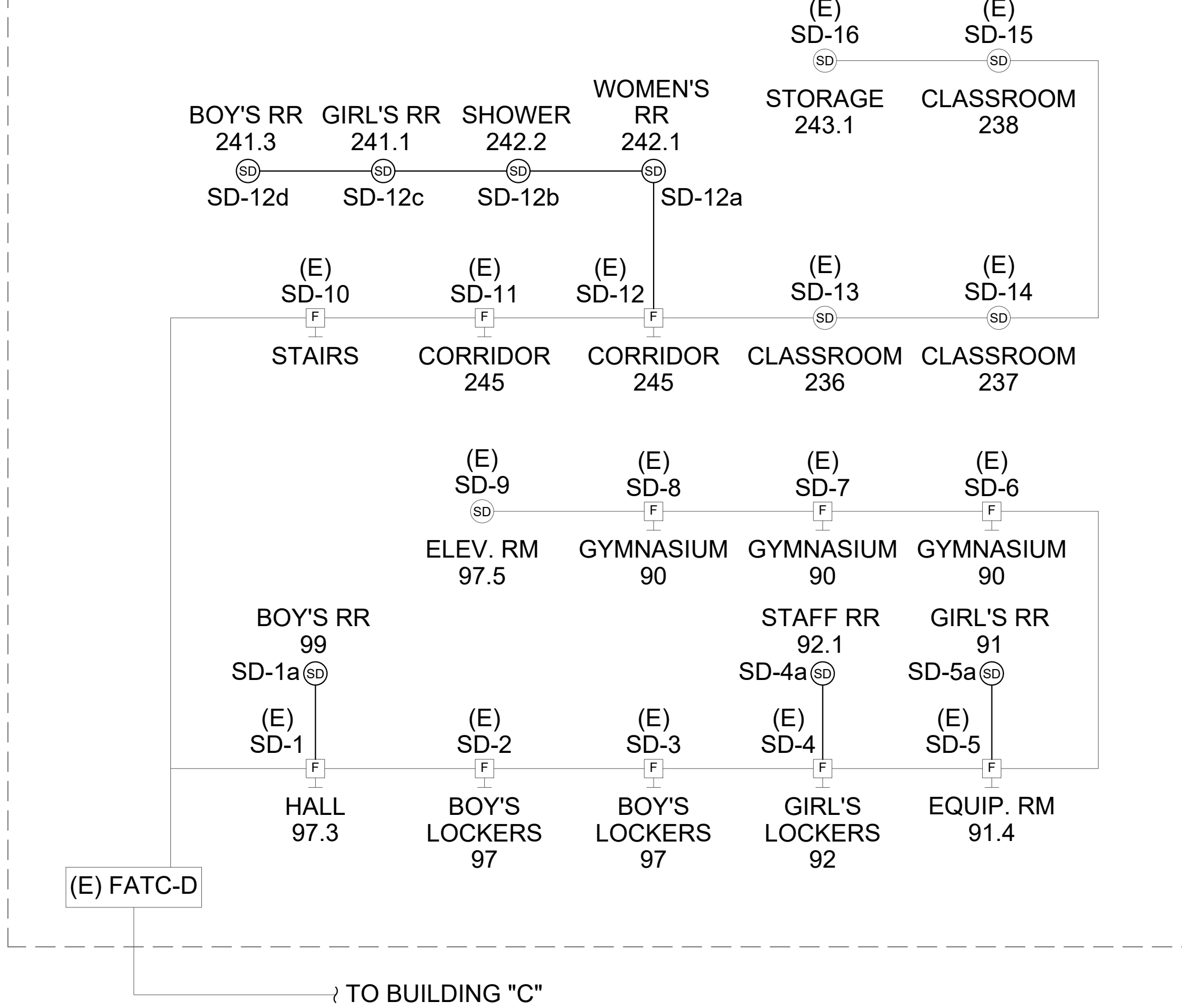
I = TOTAL CURRENT FLOW IN ALARM CONDITION
L = LENGTH OF CIRCUIT FROM SUPPLY TO LAST DEVICE (IN FEET)

WIRE SIZE (AWG)	12	14	16	18
COATED (OHM/KFT)	2.01	3.26	5.08	8.08

BUILDING "G"



BUILDING "D"



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architecture planning interiors

HEADQUARTERS OFFICE:

99 S. Lake Avenue, Suite 300
Pasadena, CA 91101
Phone: 323.543.8300
E-Mail: fm-pasadena@flewelling-moody.com

ANTELOPE VALLEY OFFICE:

1035 West Lancaster Boulevard
Lancaster, California 93534
Phone: 661.949.0771
E-Mail: fm-lancaster@flewelling-moody.com

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CONSULTANT



PACIFIC ENGINEERS GROUP
Consulting MEPP Engineers
1108 W. Magnolia Blvd., Suite A
Burbank, CA 91506
(818) 859-7081 Y25-033
info@pacificeng.net

Drawn by: HY

Check by: AF

Revisions

No.	Date	Description

All dimensions must be checked at the job by the contractor who accepts full responsibility for their accuracy prior to contract. These plans & specifications do not constitute a contract. No work shall be done on any other site in vicinity of the project without the written consent of the architect.

PASADENA UNIFIED SCHOOL DISTRICT

MARSHALL FUNDAMENTAL SCHOOL
TOILET ROOMS MODERNIZATION &
ADA UPGRADES

990 ALLEN AVE PASADENA, CA 91104

Drawing Title

FIRE ALARM RISER
DIAGRAM AND
CALCULATIONS

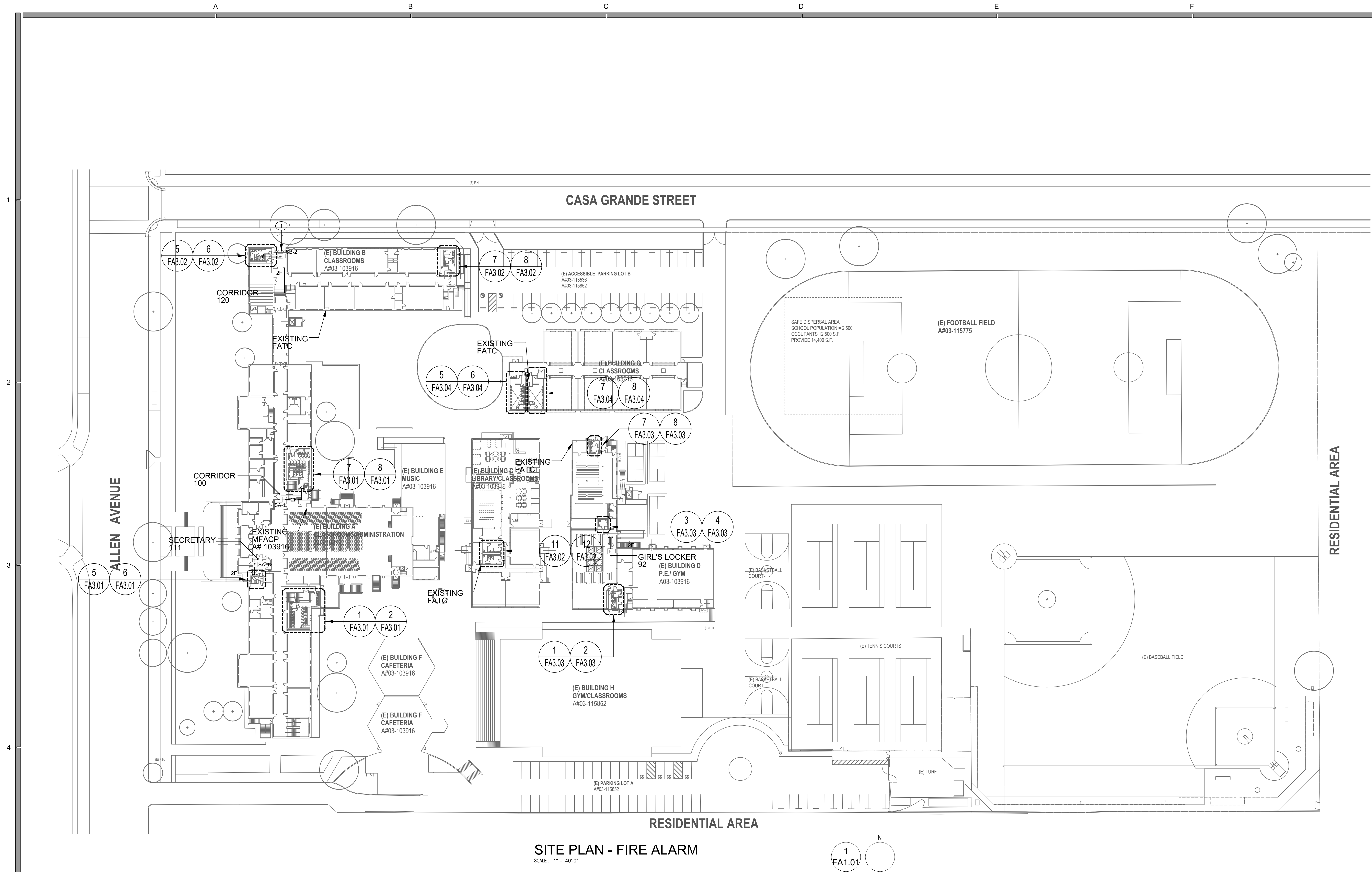
Job No.

3189

Sheet No.

FA0.02

Date
03/24/2026



POWER KEYED NOTES

- ① INTERCEPT EXISTING SLC (2F) CABLE AND EXTEND TO NEW FIRE ALARM DEVICES. SEE ENLARGED FLOOR PLANS.

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architecture planning interiors

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99 S. Lake Avenue, Suite 300
Pasadena, CA 91101
Phone: 323.543.8300
E-Mail: fm-pasadena@flewellling-moody.com

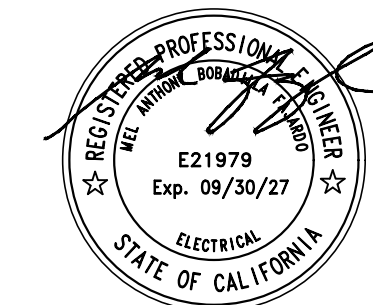
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Lancaster, California 93534
Phone: 661.949.0771
E-Mail: fm-lancaster@flewellling-moody.com

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CONSULTANT



PACIFIC ENGINEERS GROUP
Consulting MEP Engineers
1106 W. Magnolia Blvd., Suite A
Burbank, CA 91506
(818) 859-7081 Y25-033
info@pacificeng.net

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Check by: AF

Revisions

No.	Date	Description

All dimensions must be checked at the job by the contractor who accepts full responsibility for their accuracy prior to construction. These plans & the specifications or contract documents have been prepared for a specific site. Any and all responsibility for their use in whole or in part on any other site is hereby disclaimed by Flewellling & Moody.

PASADENA UNIFIED SCHOOL DISTRICT

MARSHALL FUNDAMENTAL SCHOOL
TOILET ROOMS MODERNIZATION &
ADA UPGRADES

990 ALLEN AVE PASADENA, CA 91104

Drawing Title

SITE PLAN - FIRE
ALARM

Job No.

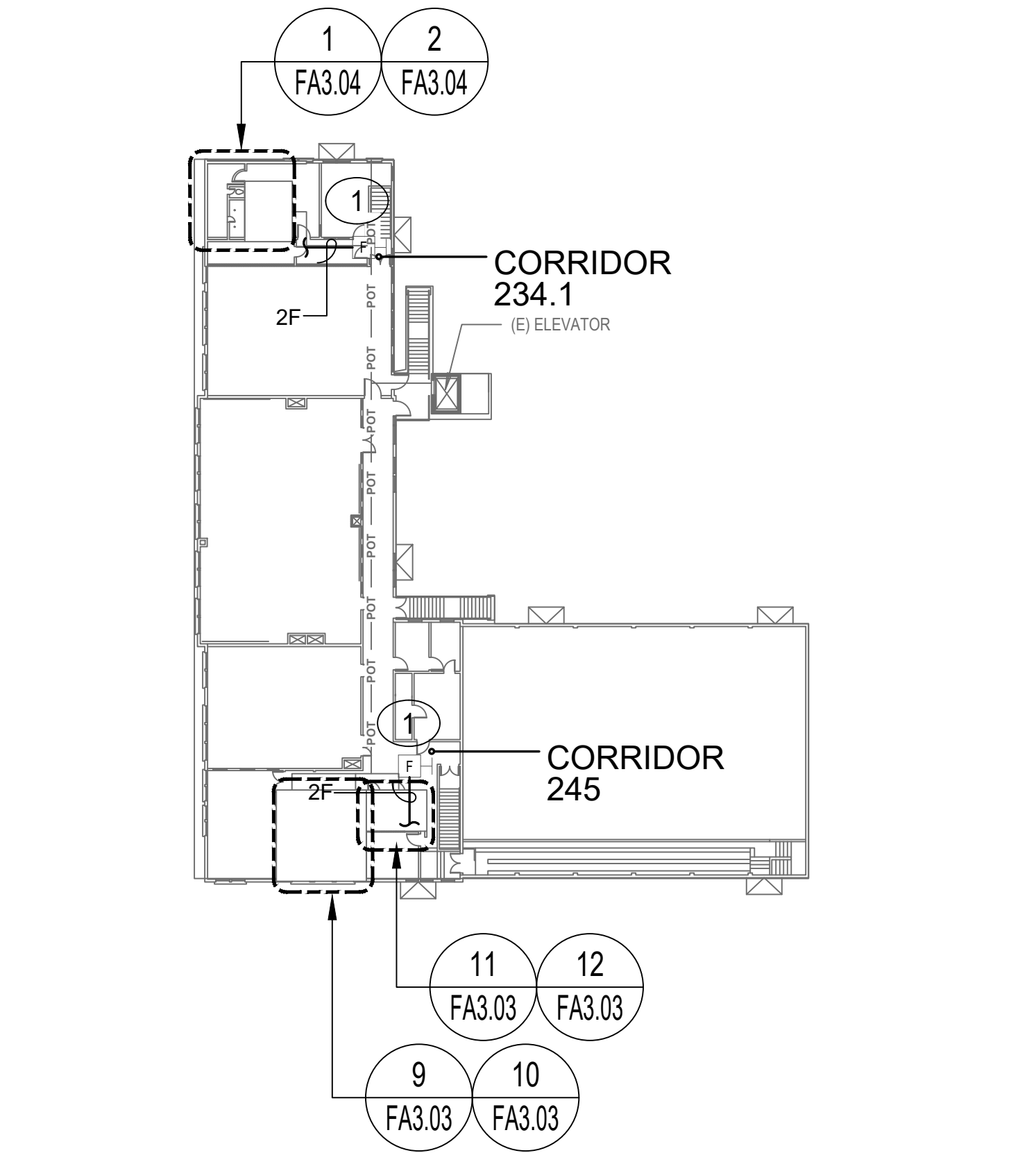
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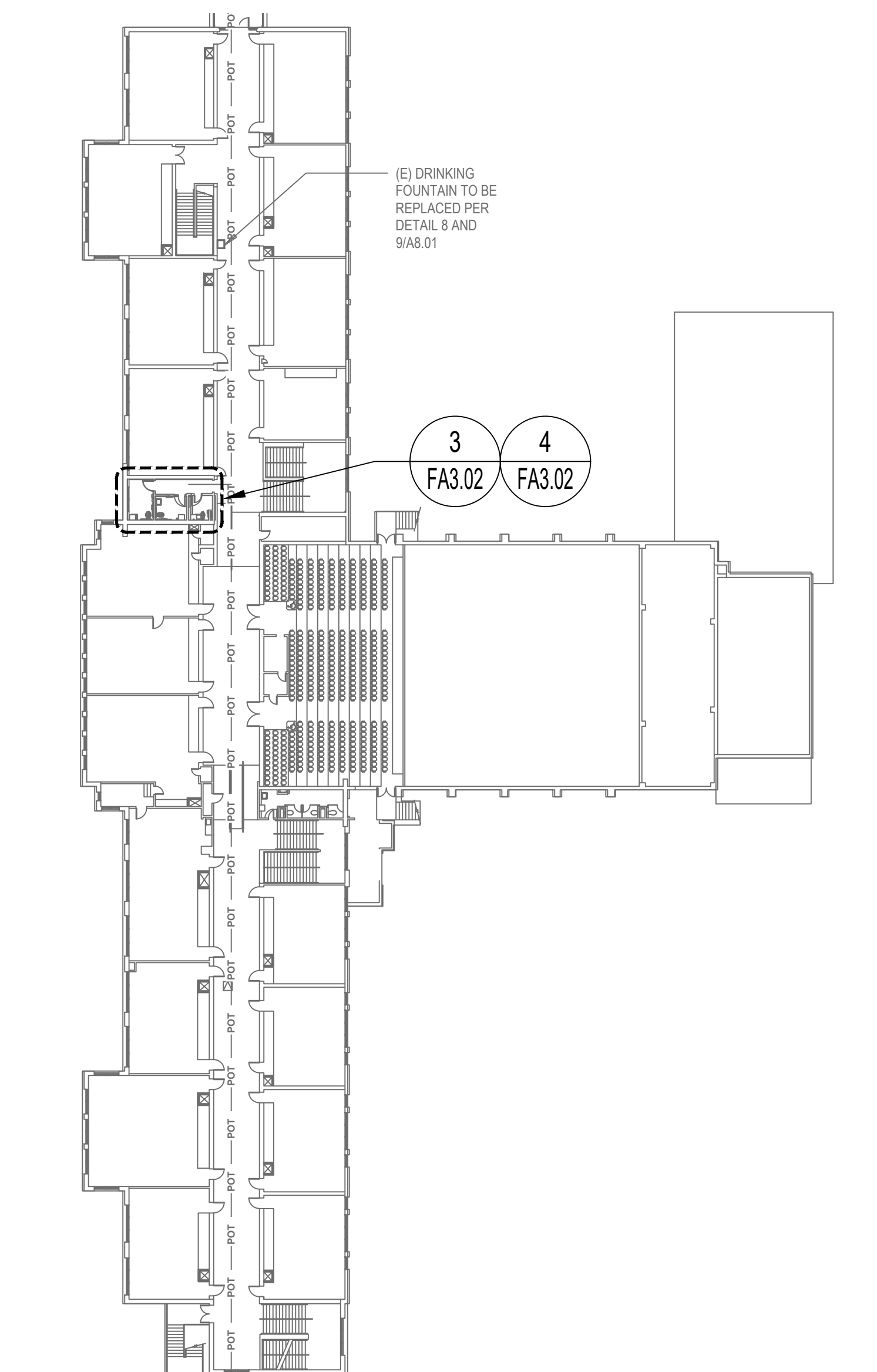
FA1.01

Date

03/24/2026



BUILDING D SECOND FLOOR FIRE ALARM PLAN
SCALE: 1/32" = 1'-0"
5
FA2.01



BUILDING A SECOND FLOOR FIRE ALARM PLAN
SCALE: 1/32" = 1'-0"
2
FA2.01

POWER KEYED NOTES

- 1 INTERCEPT EXISTING SLC (2F) CABLE AND EXTEND TO NEW FIRE ALARM DEVICES. SEE ENLARGED FLOOR PLANS.

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HEADQUARTERS OFFICE:
99 S. Lake Avenue, Suite 300
Pasadena, CA 91101
Phone: 323.543.8300
E-Mail: fm-pasadena@flewelling-moody.com

ANTELOPE VALLEY OFFICE:
1035 West Lancaster Boulevard
Lancaster, California 93534
Phone: 661.949.0771
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PACIFIC ENGINEERS GROUP
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1108 W. Magnolia Blvd., Suite A
Burbank, CA 91506
(818) 859-7081 Y25-033
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Revisions		
No.	Date	Description

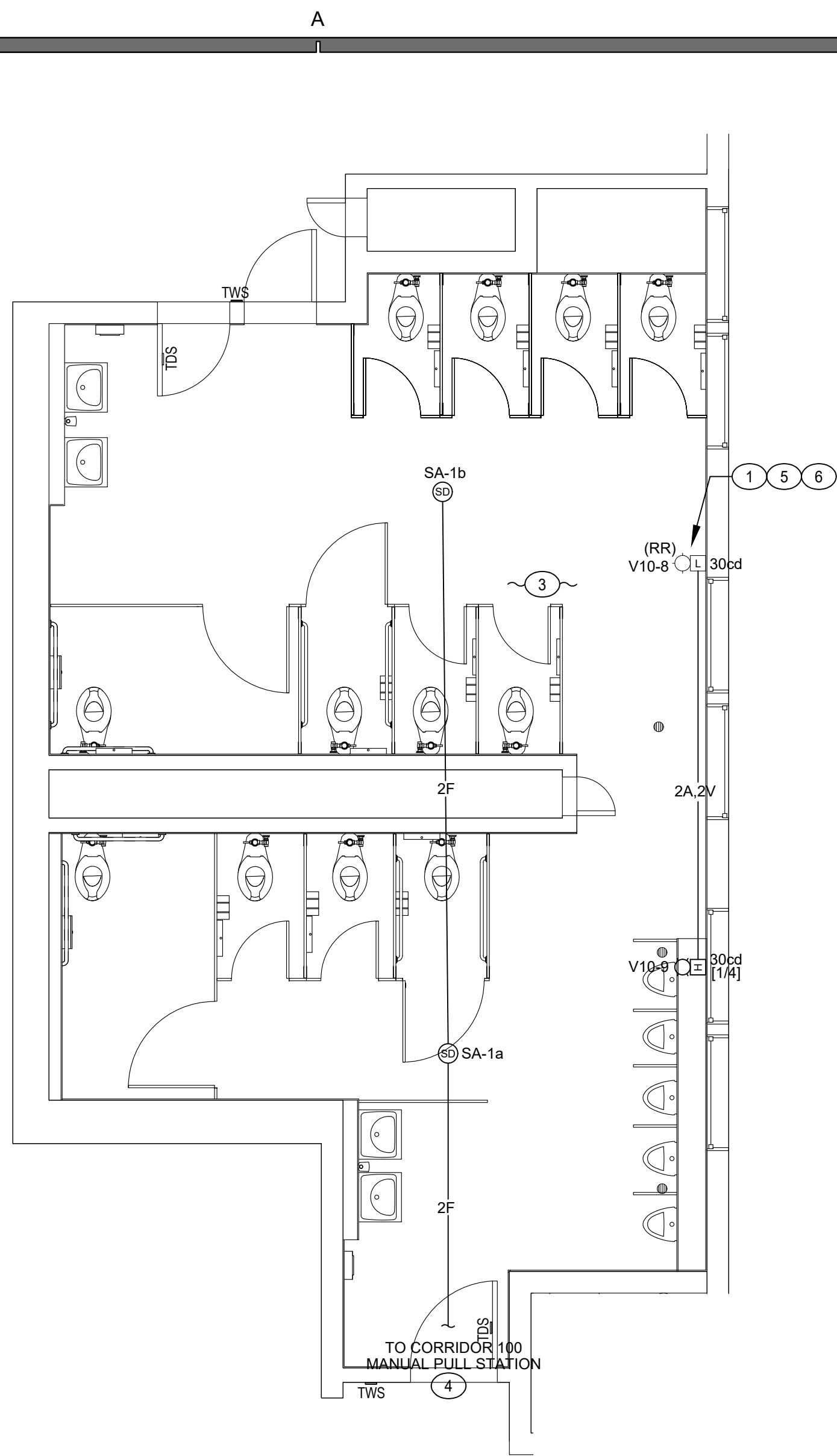
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PASADENA UNIFIED SCHOOL DISTRICT
MARSHALL FUNDAMENTAL SCHOOL
TOILET ROOMS MODERNIZATION & ADA UPGRADES
990 ALLEN AVE PASADENA, CA 91104

Drawing Title

**OVERALL LEVEL 2
FIRE ALARM PLAN**

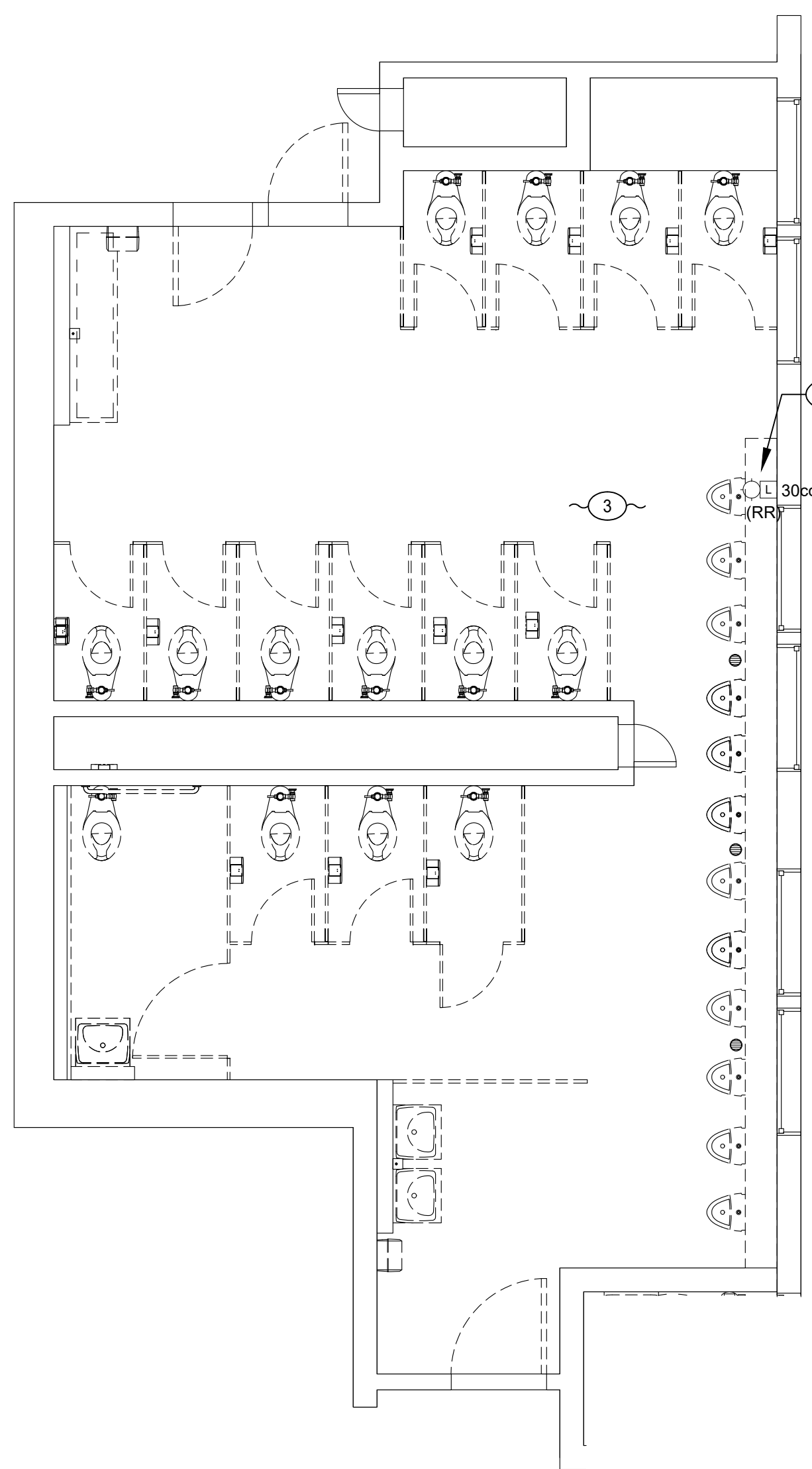
Job No. 3189	Sheet No. FA2.01
Date 03/24/2026	



BLDG A - LEVEL 1 - BOYS RR 122 -
FIRE ALARM PLAN

SCALE: 1/4" = 1'-0"

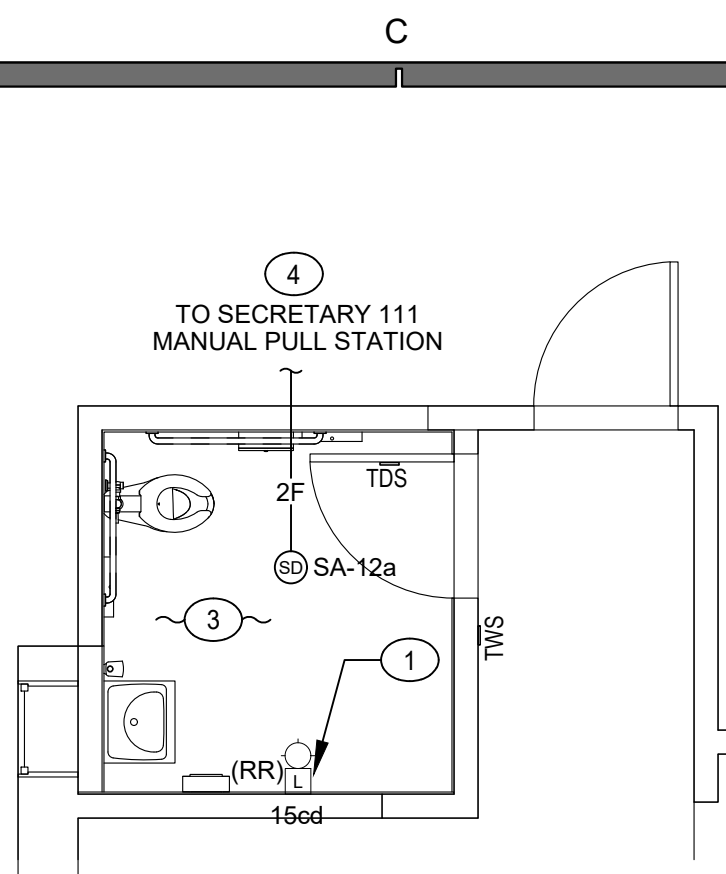
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FA3.01



BLDG A - LEVEL 1 - BOYS RR 122 -
DEMOLITION PLAN

SCALE: 1/4" = 1'-0"

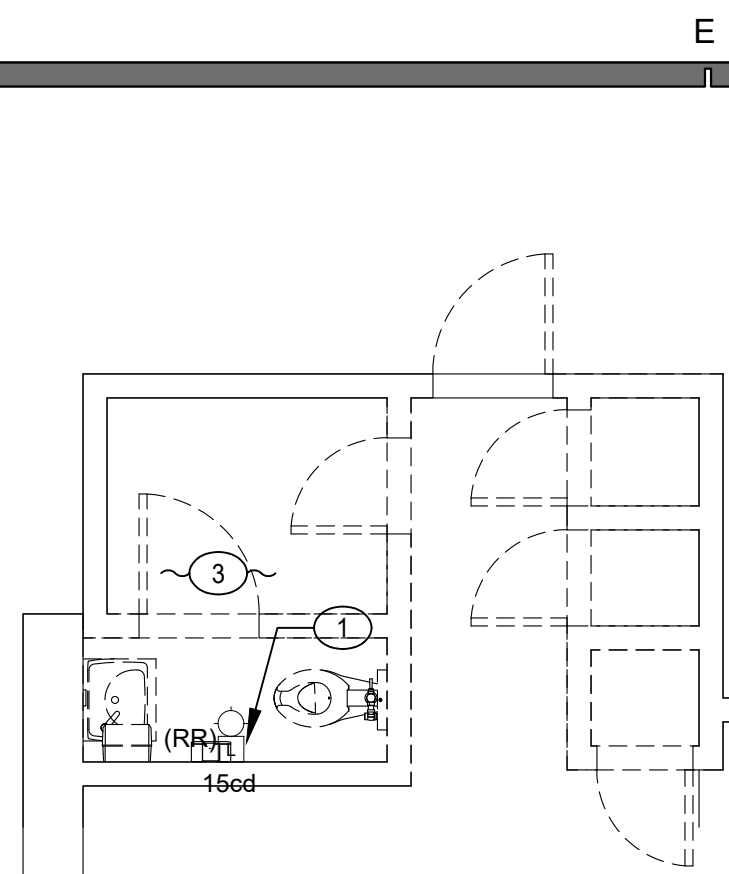
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BLDG A - LEVEL 1 - STAFF 109.2 -
FIRE ALARM PLAN

SCALE: 1/4" = 1'-0"

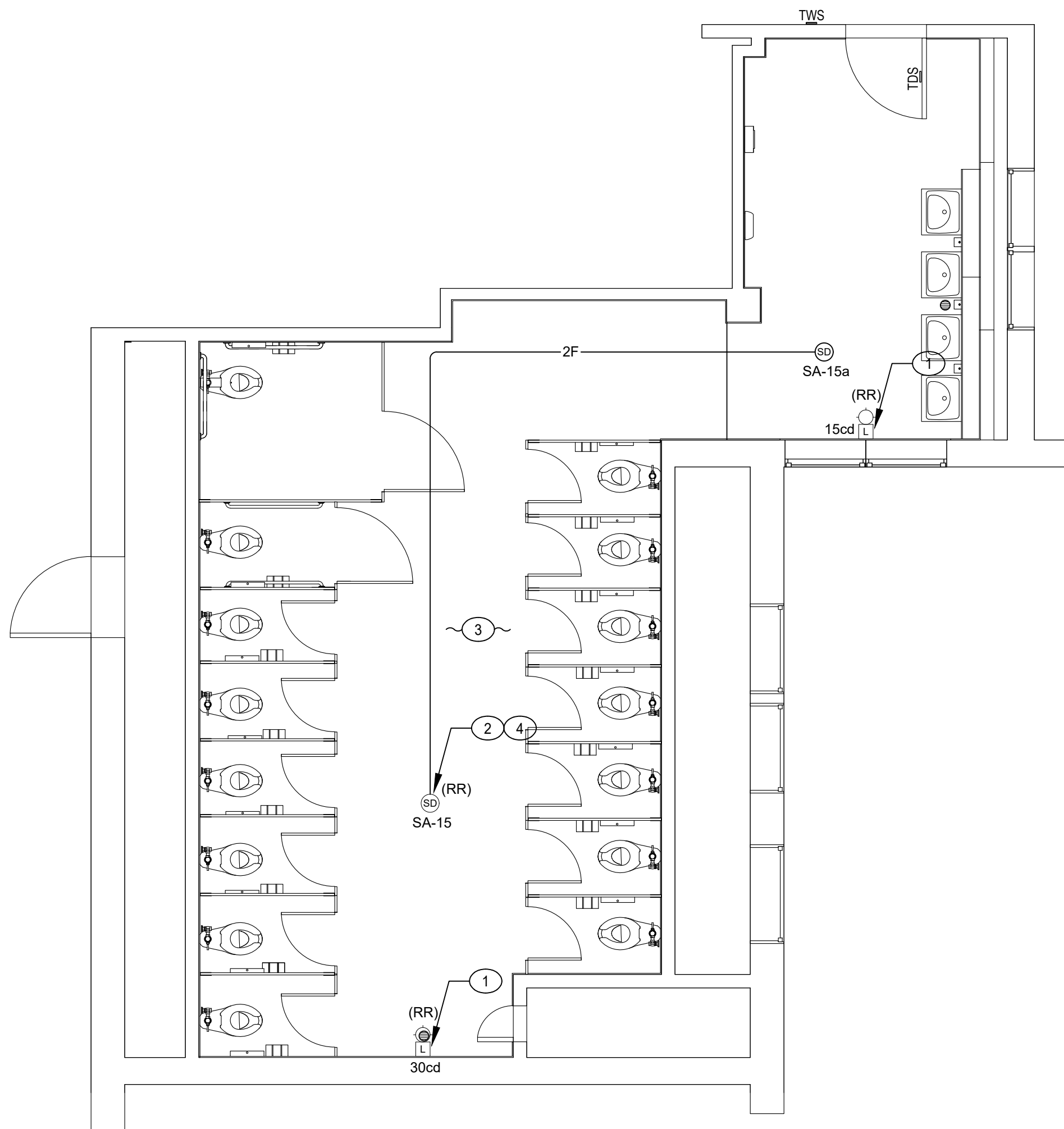
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BLDG A - LEVEL 1 - STAFF 109.2 -
DEMOLITION PLAN

SCALE: 1/4" = 1'-0"

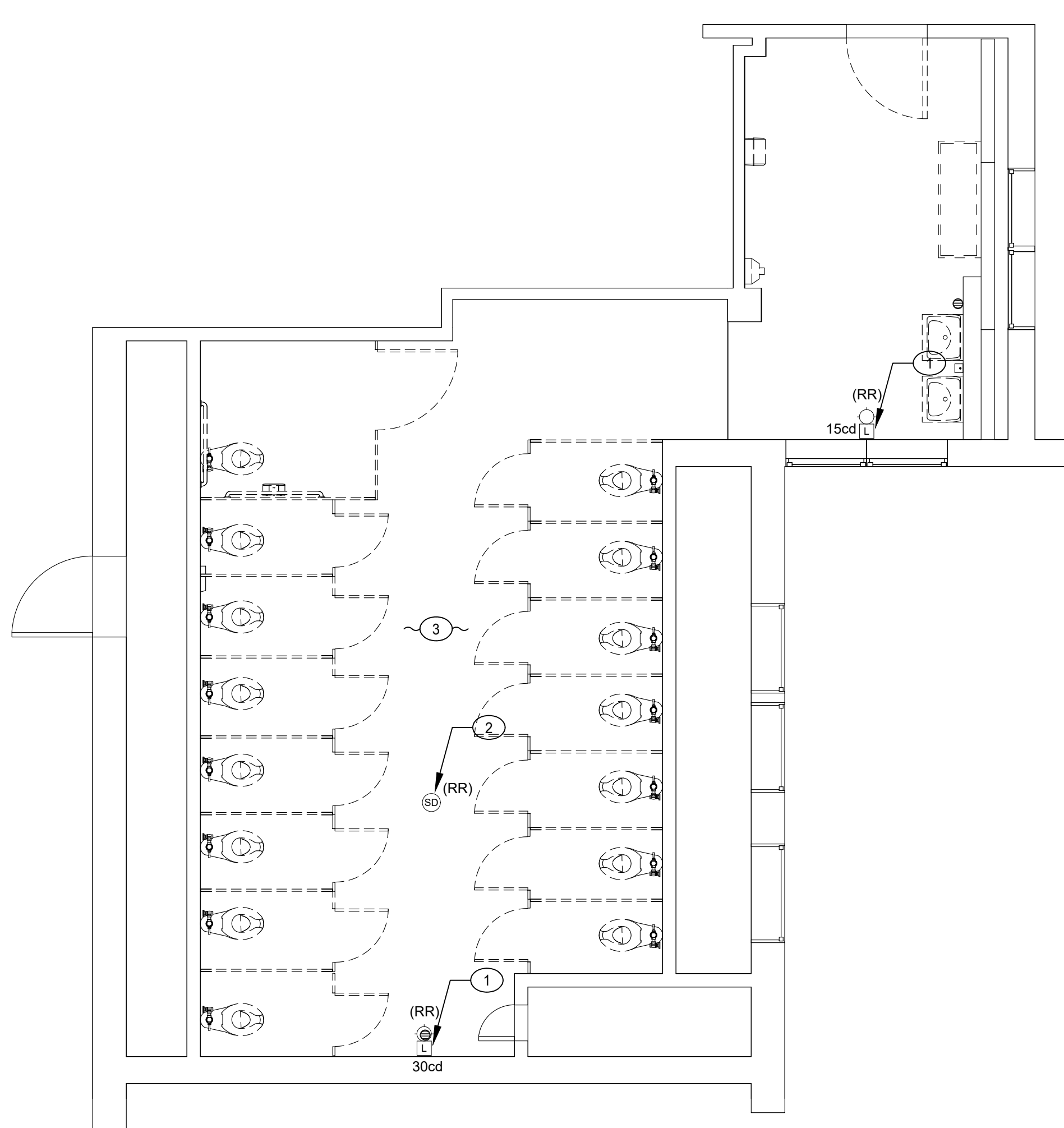
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FA3.01



BLDG A - LEVEL 1 - GIRLS RR 108 -
FIRE ALARM PLAN

SCALE: 1/4" = 1'-0"

2
FA3.01



BLDG A - LEVEL 1 - GIRLS RR 108 -
DEMOLITION PLAN

SCALE: 1/4" = 1'-0"

1
FA3.01

GENERAL NOTES:

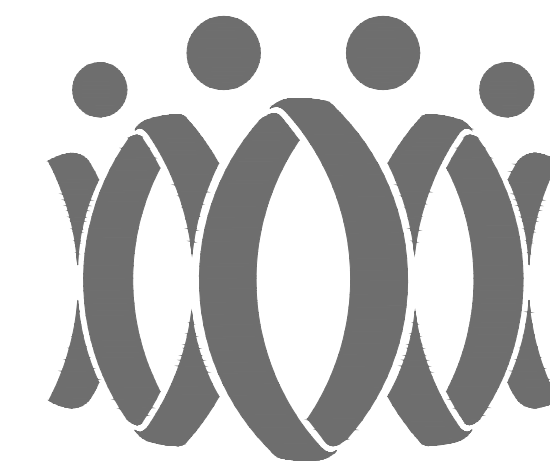
1. REFER TO FIRE ALARM LEAD SHEET FOR LEGENDS, ABBREVIATIONS, AND GENERAL NOTES.
2. ROUTE ALL CONDUIT PER FIELD CONDITION.
3. ALL FIRE ALARM INSTALLATIONS PROVIDE NEW, UNLESS OTHERWISE NOTED.
4. TEST AND REPROGRAM MFACP AFTER REINSTALLATION WORK TO ENSURE A COMPLETE AND OPERABLE SYSTEM.

KEYED NOTES:

- 1 REMOVE AND REINSTALL EXISTING FIRE ALARM STROBE IN SAME PLACE. RECONNECT TO THE SAME CIRCUITS.
- 2 REMOVE AND REINSTALL EXISTING FIRE ALARM SMOKE DETECTOR IN SAME PLACE. RECONNECT TO THE SAME CIRCUITS.
- 3 REMOVE AND REINSTALL (E) SURFACE MOUNT FA RACEWAYS DUE TO WALL/CEILING REMODEL.
- 4 INTERCEPT EXISTING SLC (2F) CABLE AND EXTEND TO NEW FIRE ALARM DEVICES AS SHOWN ON THE PLANS. SEE SITE PLAN.
- 5 INTERCEPT VISUAL CABLE (V) AND EXTEND TO NEW FIRE ALARM DEVICES AS SHOWN ON THE PLANS.
- 6 INTERCEPT AUDIO CABLE (A) AND EXTEND TO NEW FIRE ALARM DEVICES AS SHOWN ON THE PLANS.

AGENCY

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-125519 INC:
REVIEWED FOR
SS ☒ FLS ☒ ACS ☒
DATE: 06/11/2026



FLEWWELLING & MOODY
architecture planning interiors

HEADQUARTERS OFFICE:

99 S. Lake Avenue, Suite 300
Pasadena, CA 91101
Phone: 323.543.8300
E-Mail: fm-pasadena@flewwelling-moody.com

ANTELOPE VALLEY OFFICE:

1035 West Lancaster Boulevard
Lancaster, California 93534
Phone: 661.949.0771
E-Mail: fm-lancaster@flewwelling-moody.com

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CONSULTANT



PACIFIC ENGINEERS GROUP
Consulting MEPF Engineers
1108 W. Magnolia Blvd., Suite A
Burbank, CA 91506
(818) 859-7081 Y25-033
info@pacificeng.net

Drawn by: HY

Check by: AF

Revisions

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Drawing Title

BUILDING A
ENLARGED RESTROOM
ELECTRICAL PLANS

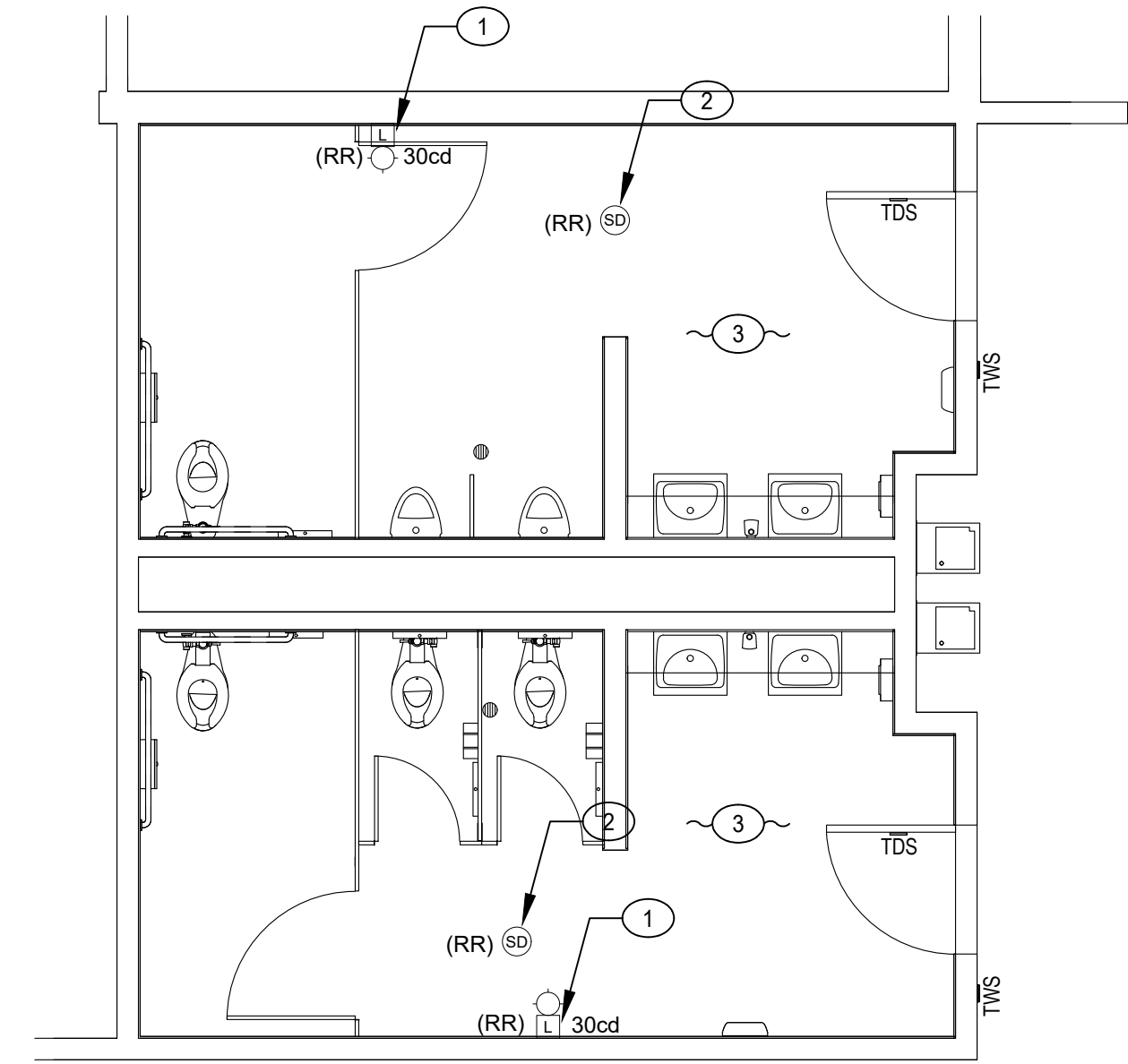
Job No.

3189

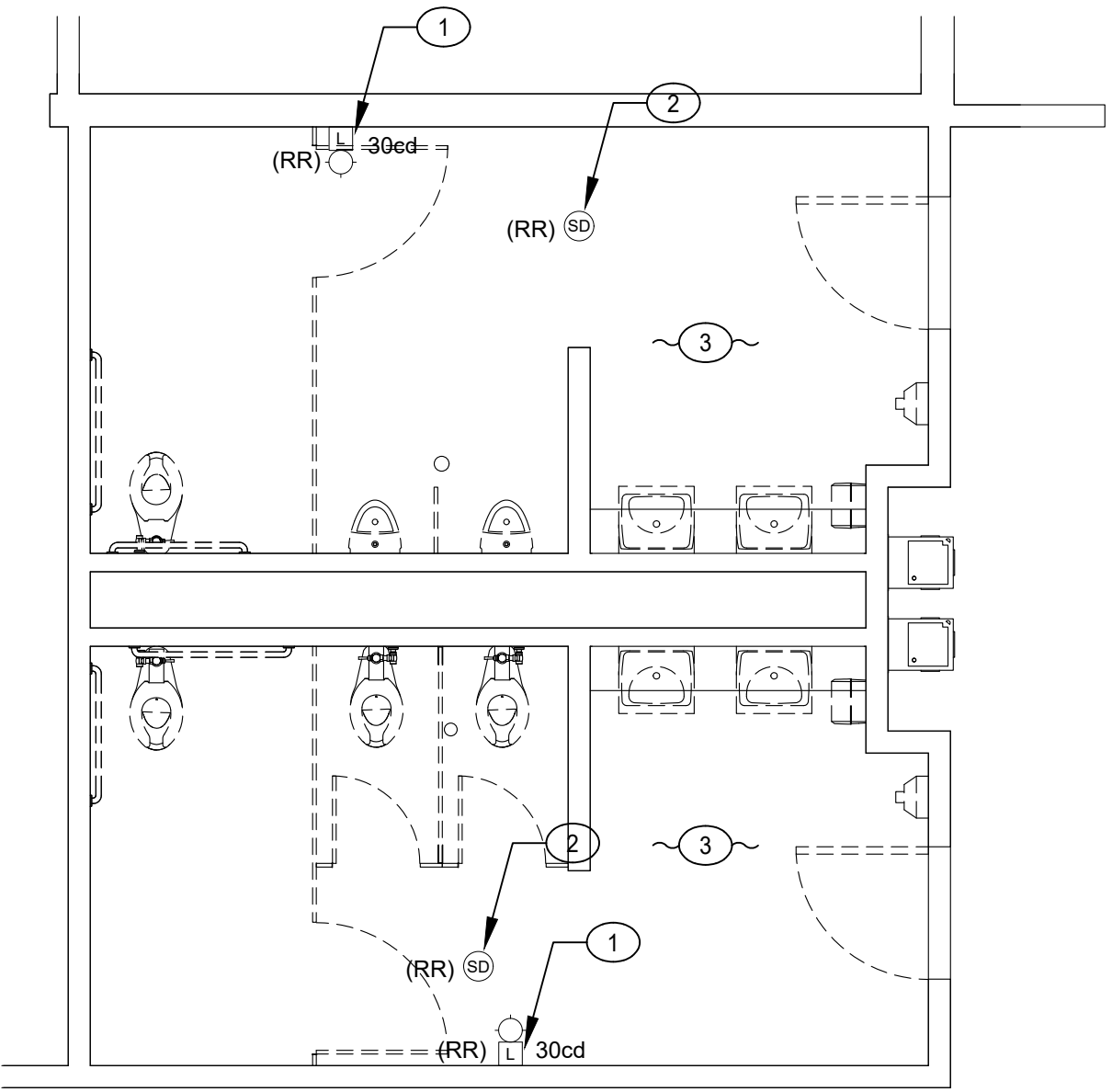
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03/24/2026

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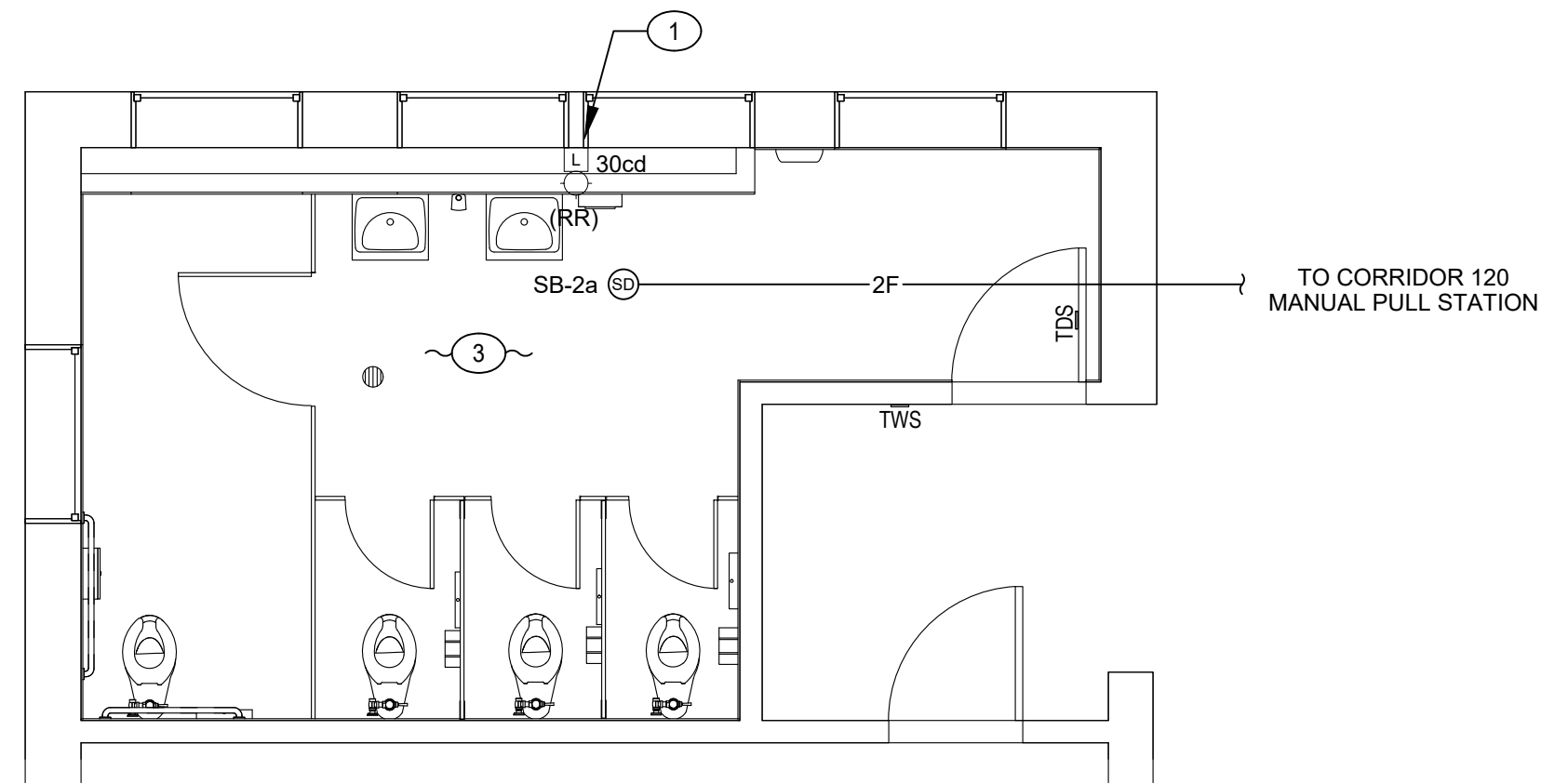
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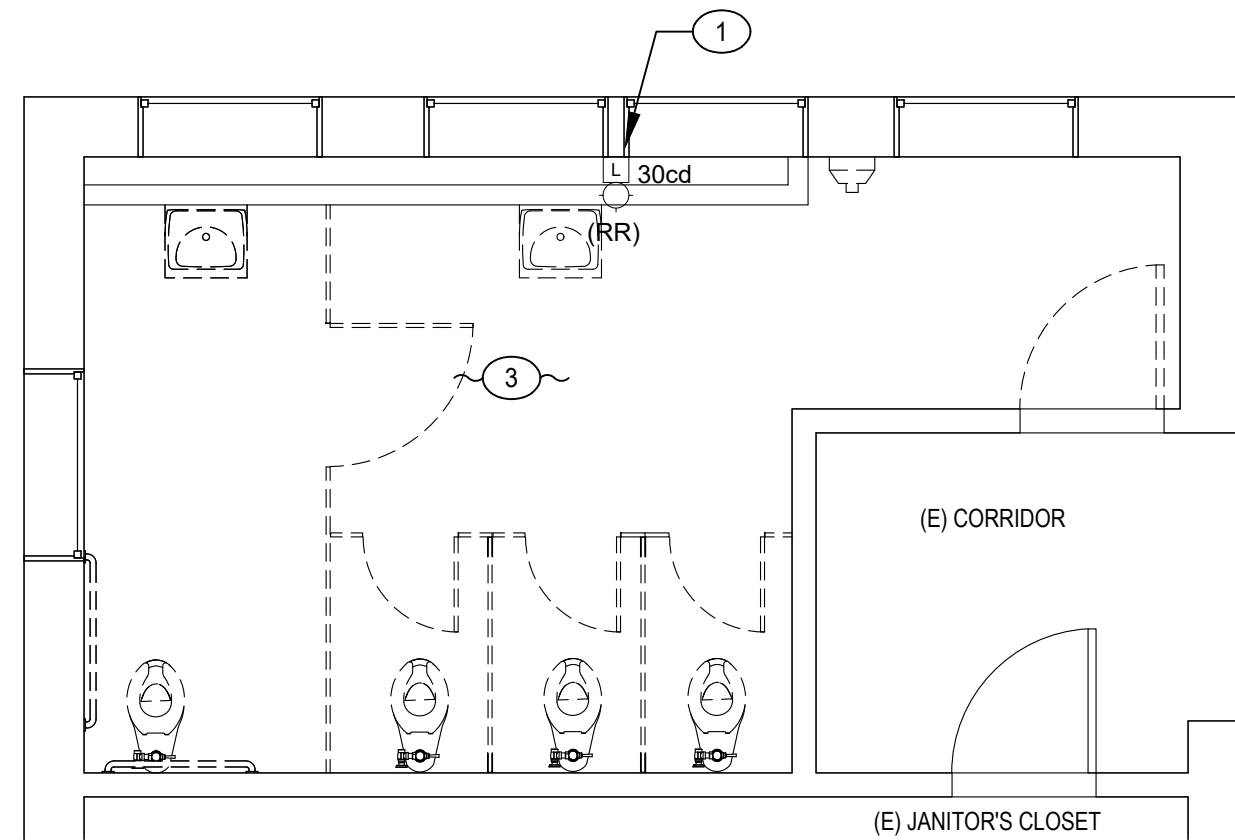
BLDG C - LEVEL 1 - STAFF RR 155, 157 -
FIRE ALARM PLAN



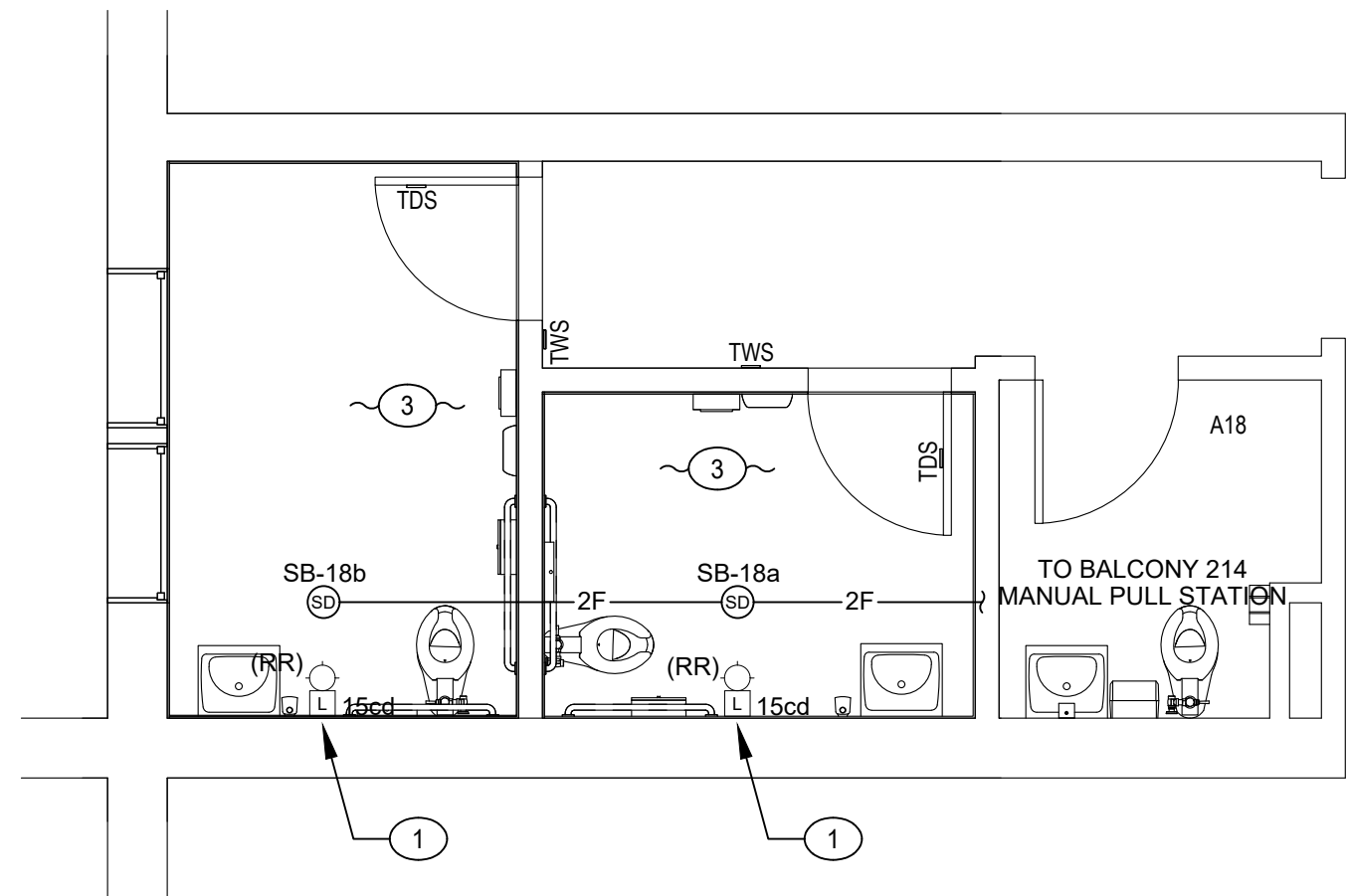
BLDG C - LEVEL 1 - STAFF RR 155, 157 -
DEMOLITION PLAN



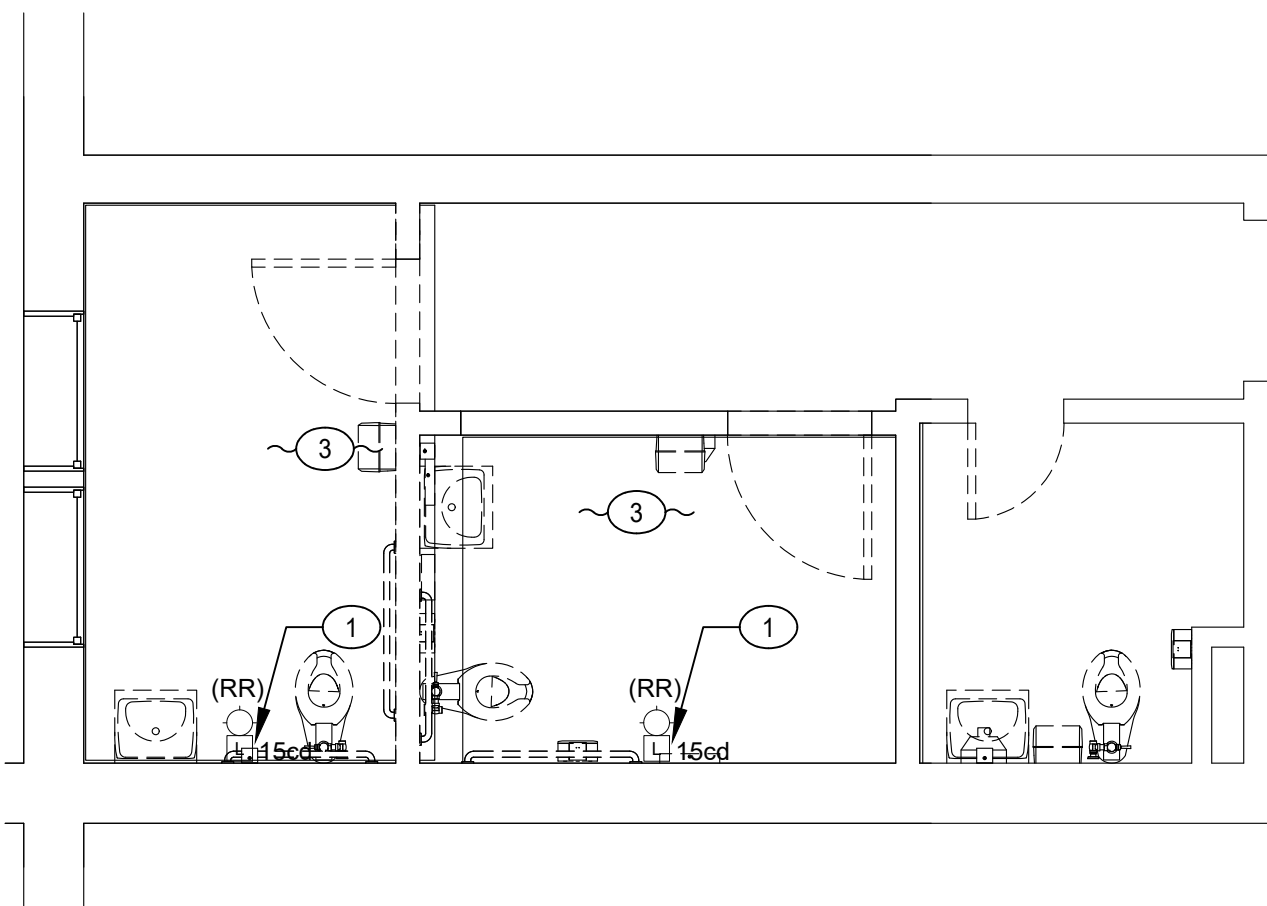
BLDG B - LEVEL 1 - GIRLS RR 121 -
FIRE ALARM PLAN



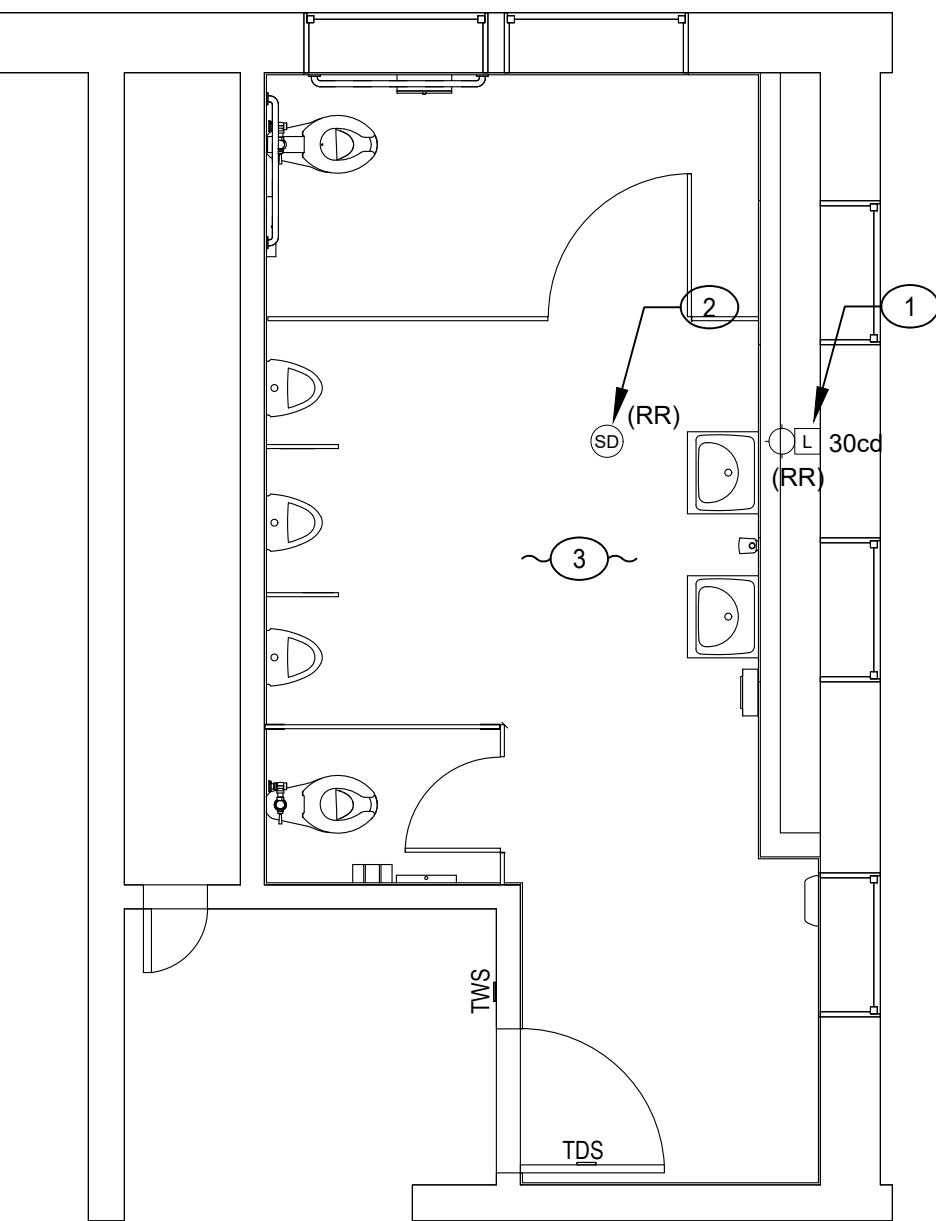
BLDG B - LEVEL 1 - GIRLS RR 121 -
DEMOLITION PLAN



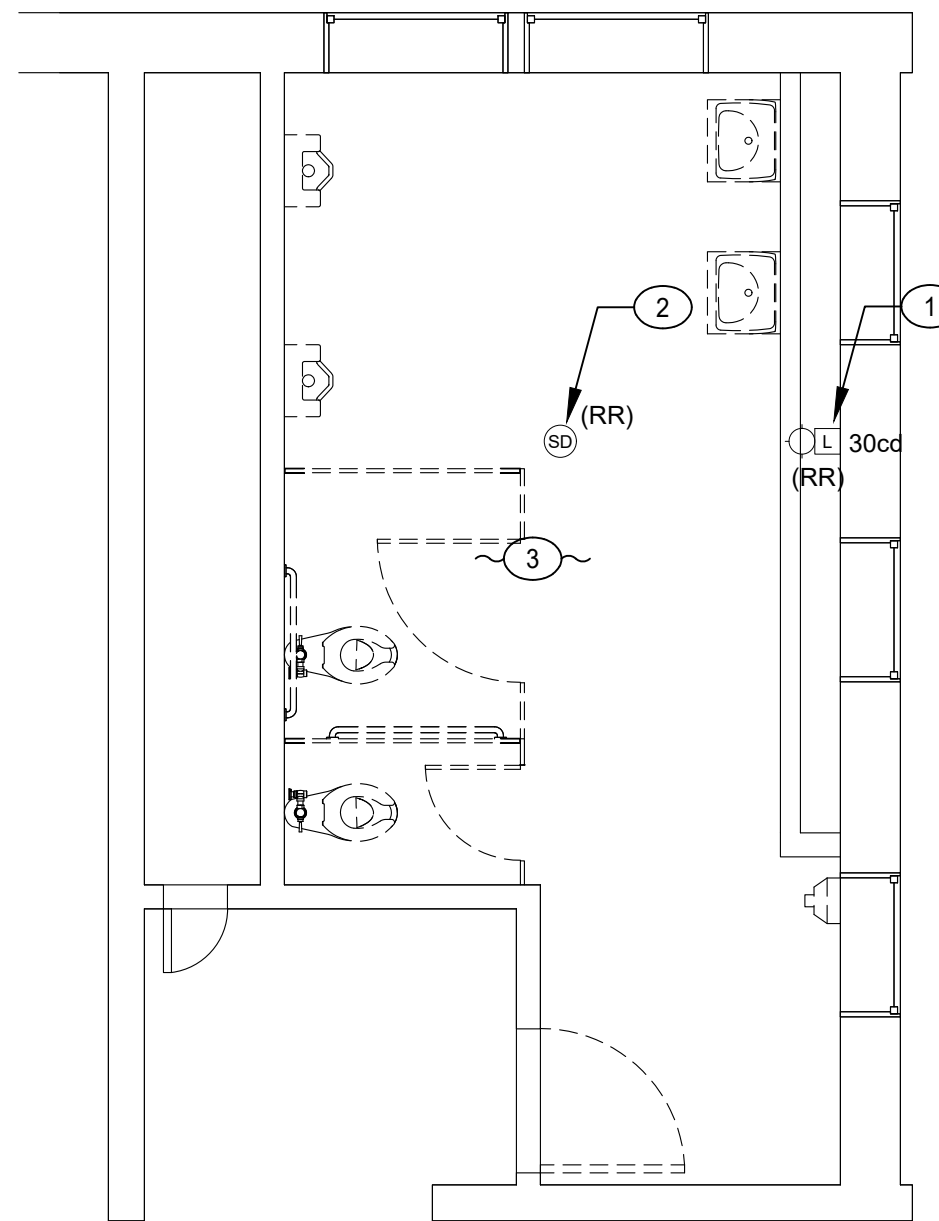
BLDG A - LEVEL 2 - STAFF RR 215.3, 215.4 -
FIRE ALARM PLAN



BLDG A - LEVEL 2 - STAFF RR 215.3, 215.4 -
DEMOLITION PLAN



BLDG B - LEVEL 1 - BOYS RR 133 -
FIRE ALARM PLAN



BLDG B - LEVEL 1 - BOYS RR 133 -
DEMOLITION PLAN

GENERAL NOTES:

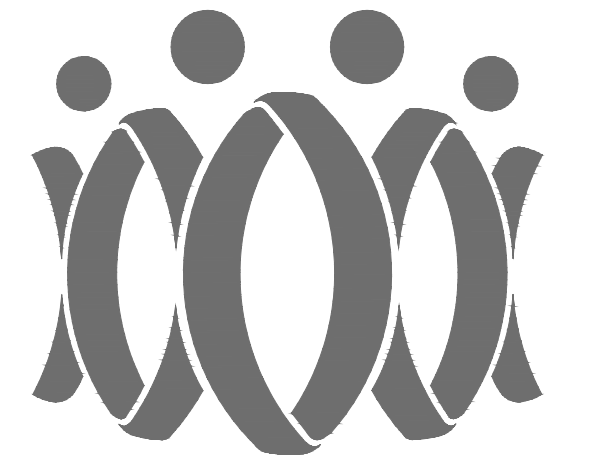
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AGENCY

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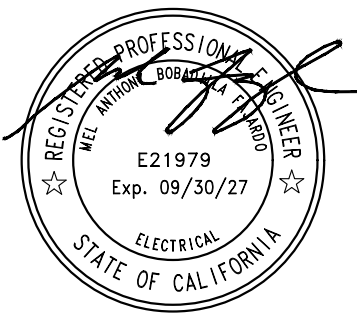
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99 S. Lake Avenue, Suite 300
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1108 W. Magnolia Blvd., Suite A
Burbank, CA 91506
(818) 859-7081 Y25-033
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Drawn by: HY

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MARSHALL FUNDAMENTAL SCHOOL
TOILET ROOMS MODERNIZATION &
ADA UPGRADES

990 ALLEN AVE PASADENA, CA 91104

Drawing Title

BUILDINGS A, B, & C
ENLARGED RESTROOM
ELECTRICAL PLANS

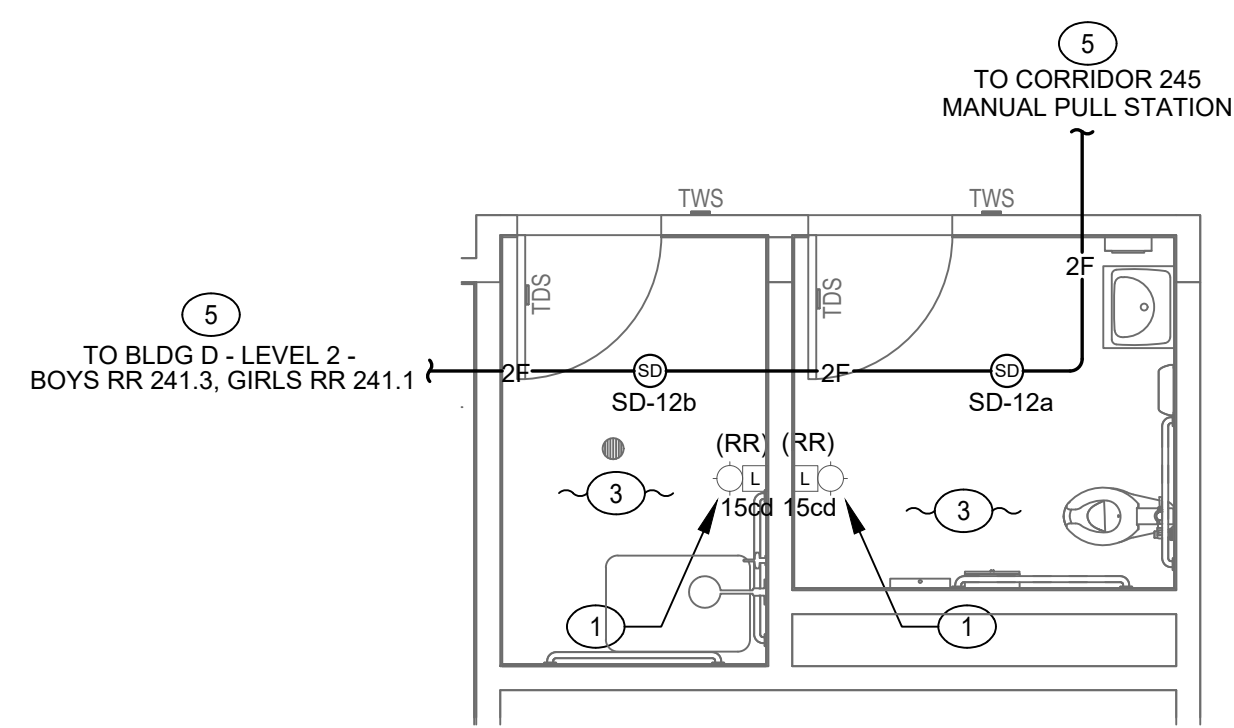
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3189

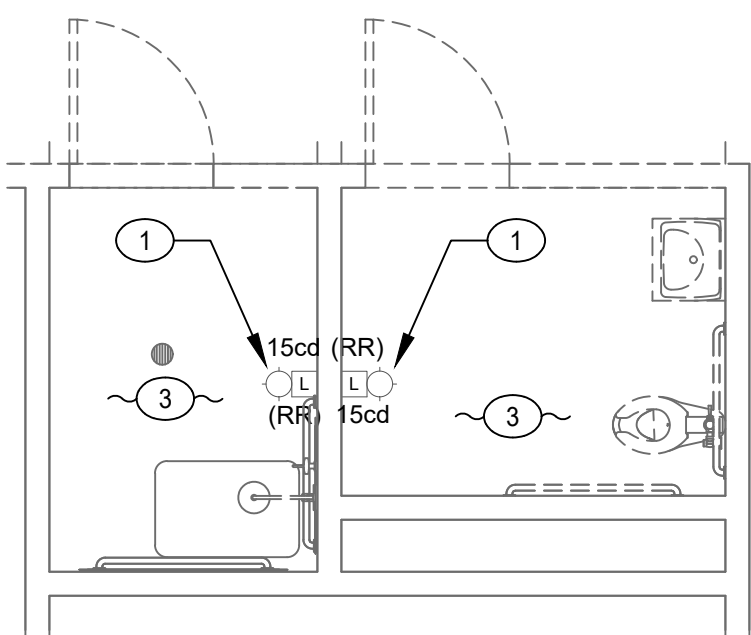
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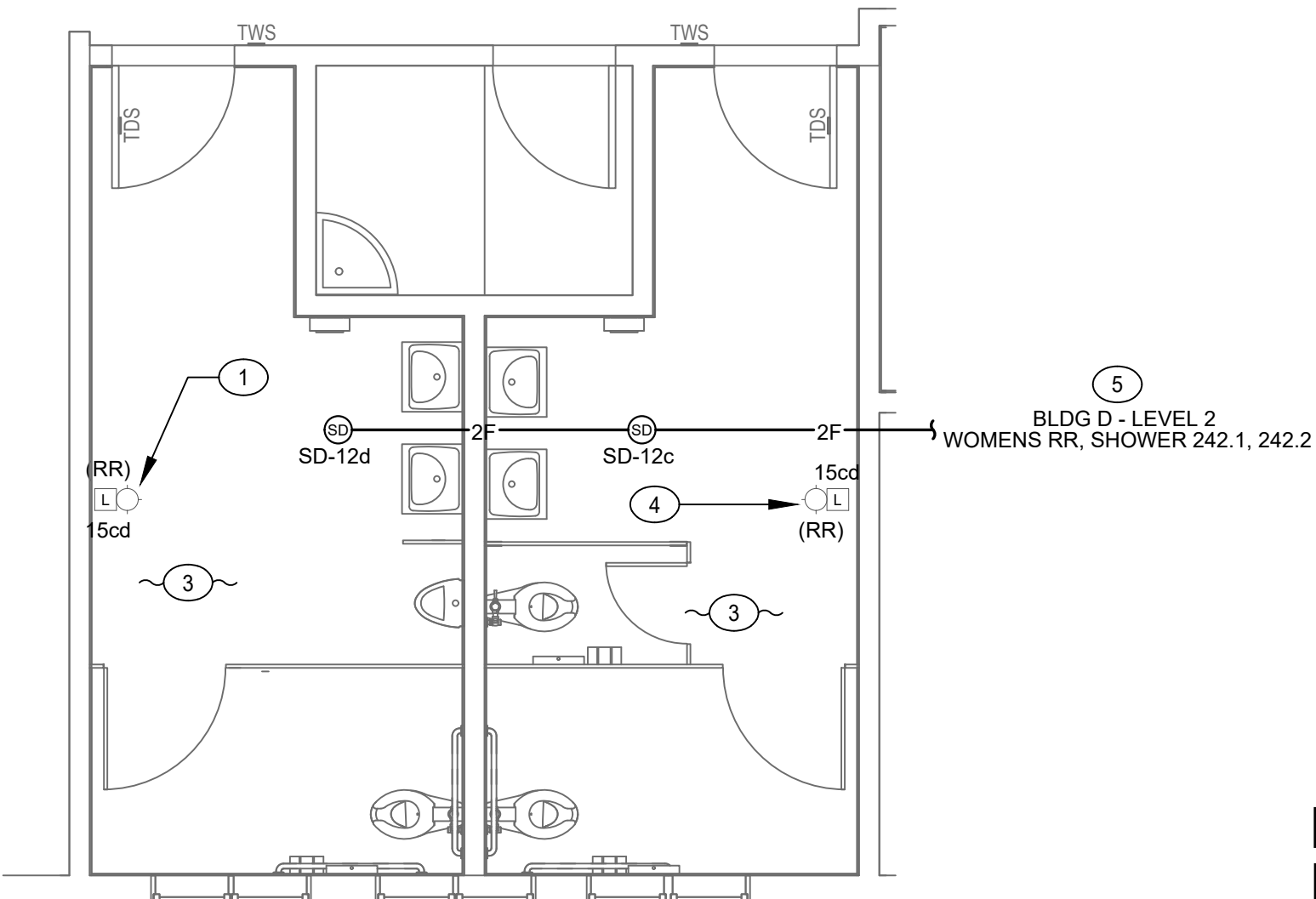
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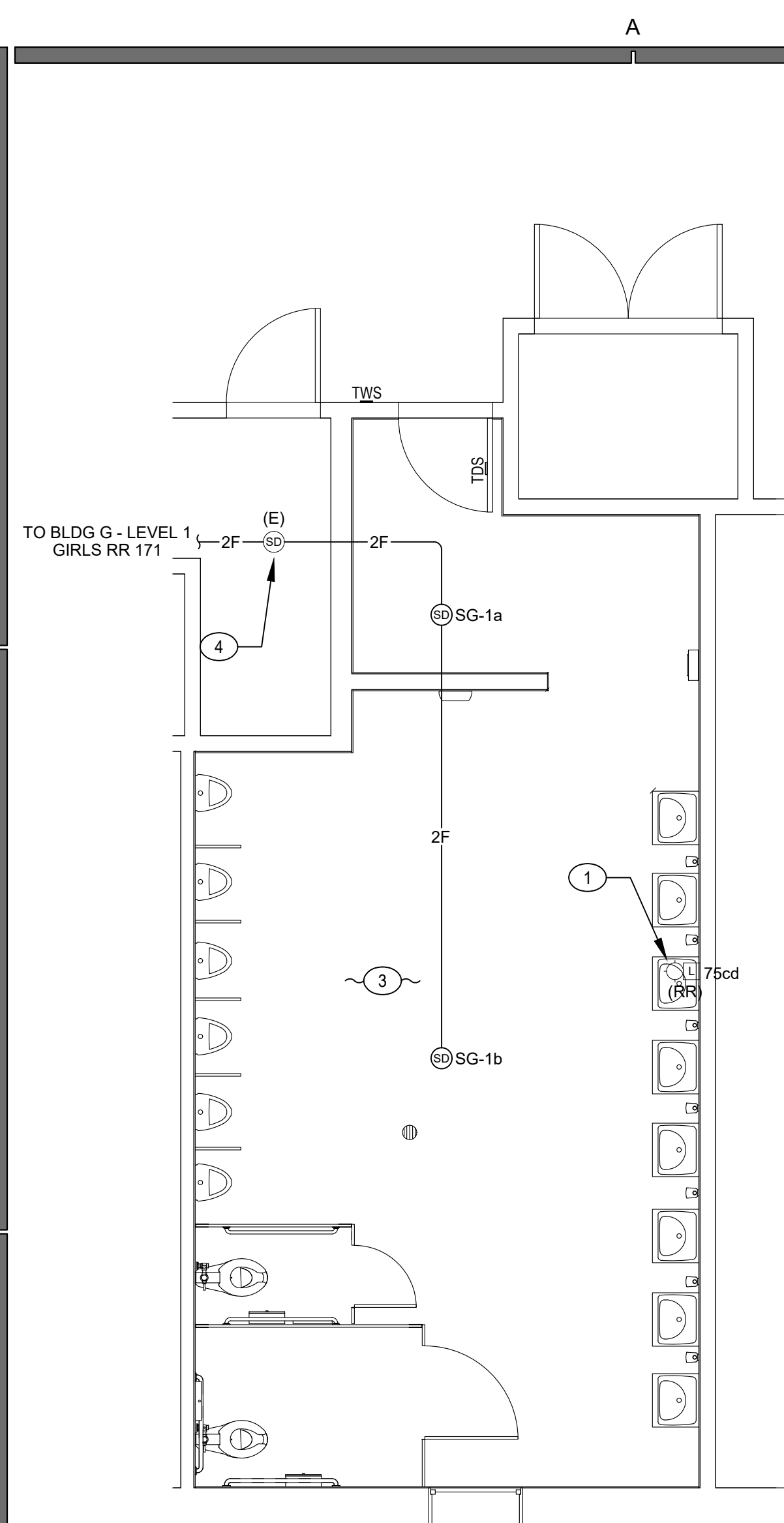


BLDG D - LEVEL 2 - WOMENS RR, SHOWER 242.1, 242.2 - FIRE ALARM PLAN

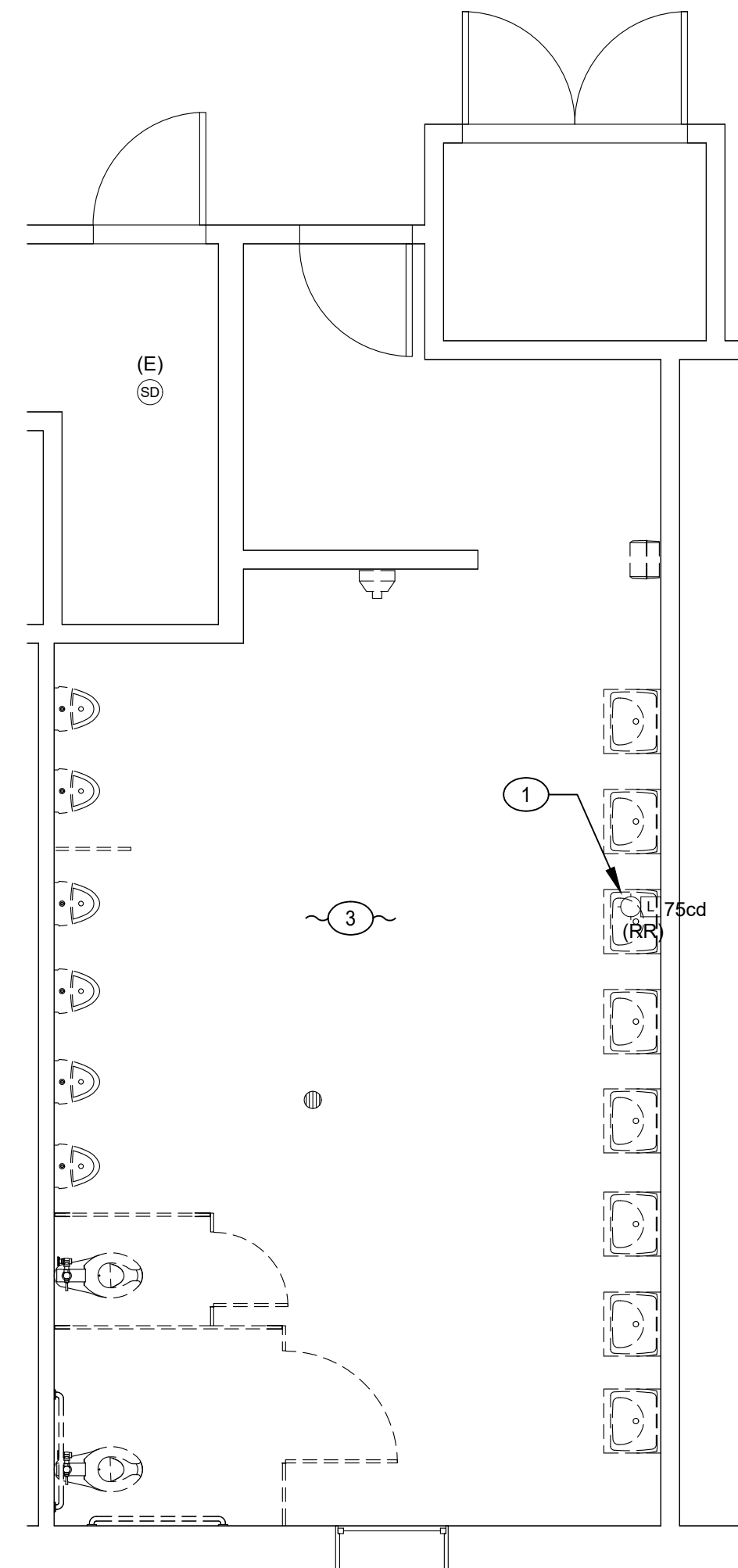


BLDG D - LEVEL 2 - WOMENS RR, SHOWER 242.1, 242.2 - DEMOLITION PLAN

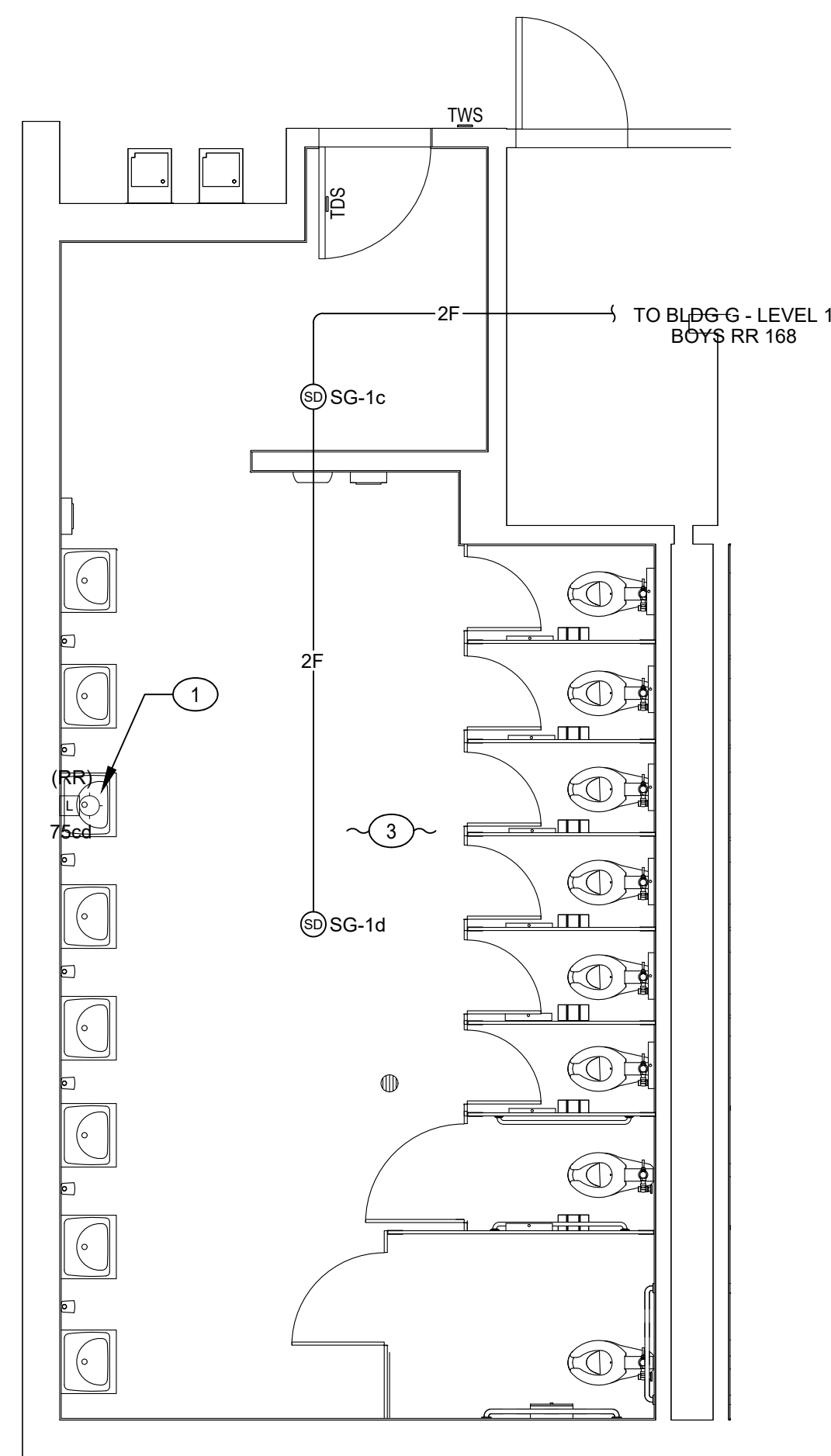




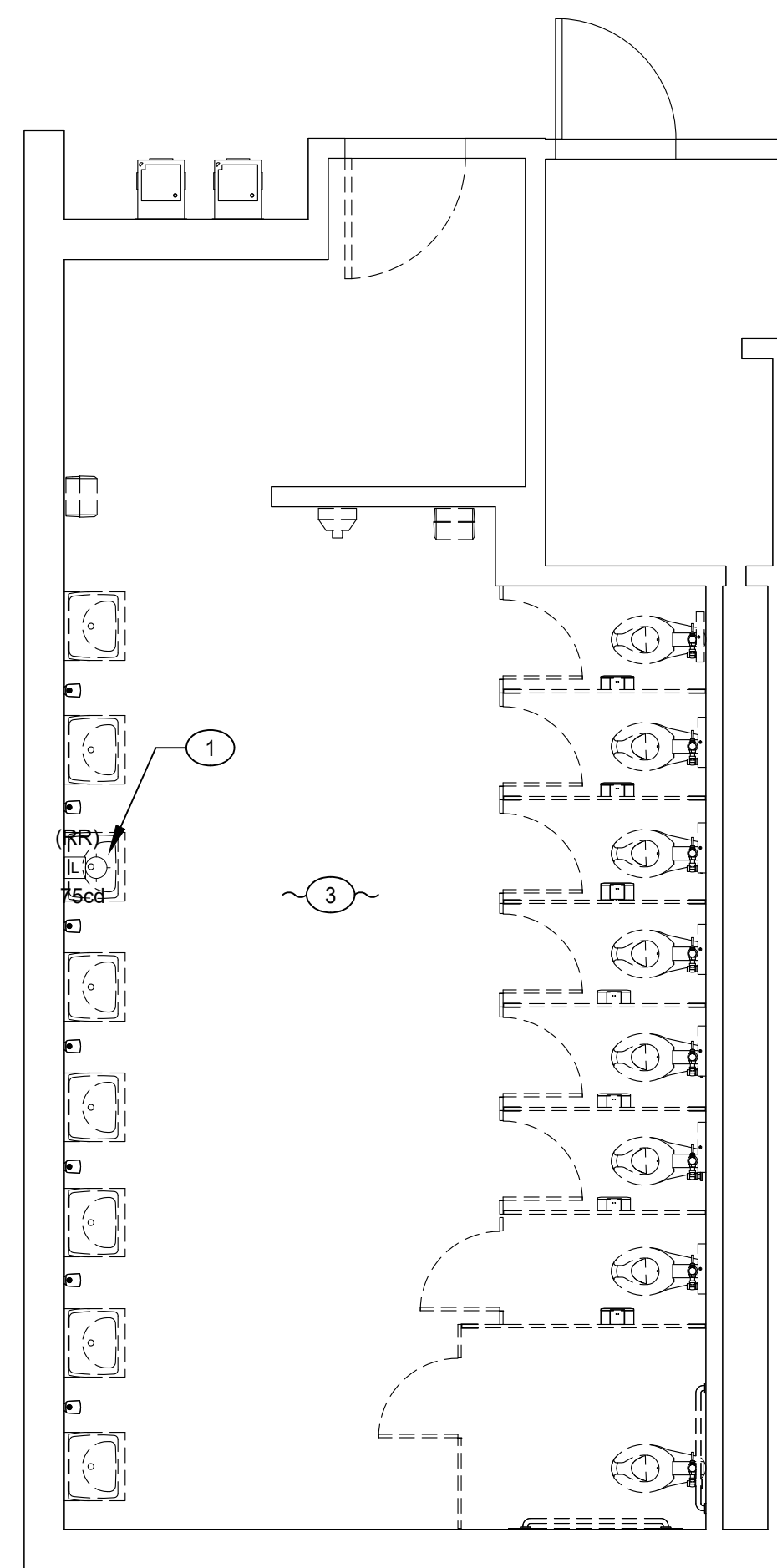
BLDG G - LEVEL 1 - BOYS 168 -
FIRE ALARM PLAN



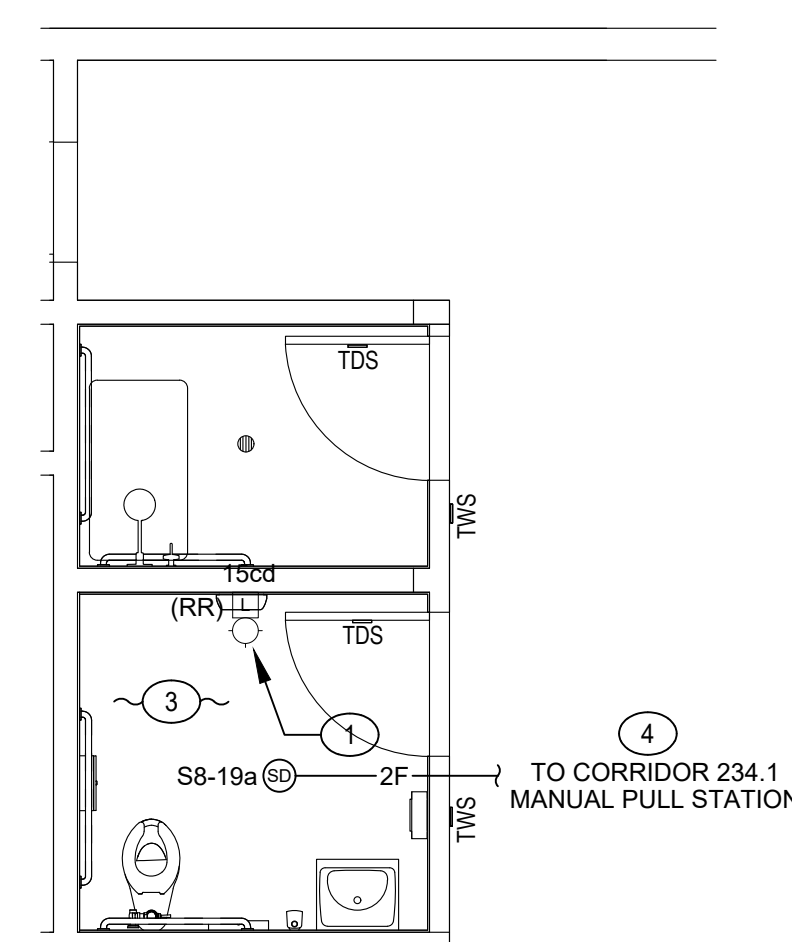
BLDG G - LEVEL 1 - BOYS 168 -
DEMOLITION PLAN



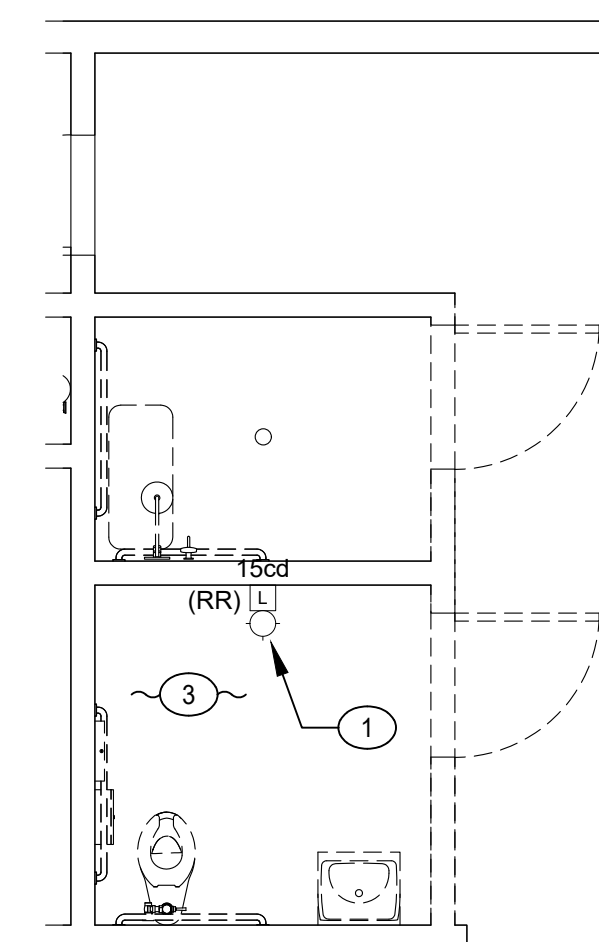
BLDG G - LEVEL 1 - GIRLS RR 171 -
FIRE ALARM PLAN



BLDG G - LEVEL 1 - GIRLS RR 171 -
DEMOLITION PLAN



BLDG D - LEVEL 2 - MENS RR, SHOWER 235.1, 235.2 -
FIRE ALARM PLAN



BLDG D - LEVEL 2 - MENS RR, SHOWER 235.1, 235.2 -
DEMOLITION PLAN

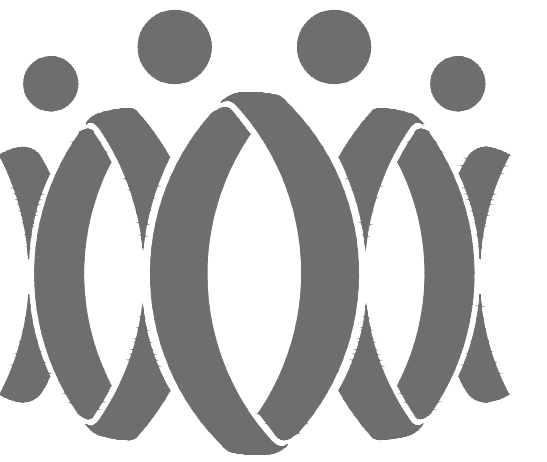
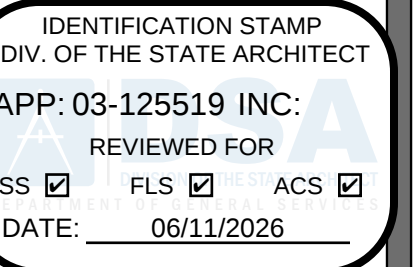
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E-Mail: fm-pasadena@fiewelling-moody.com

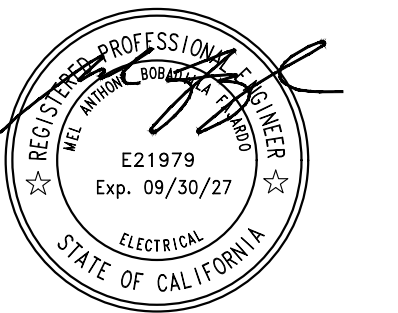
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MARSHALL FUNDAMENTAL SCHOOL TOILET ROOMS MODERNIZATION & ADA UPGRADES

90 ALLEN AVE PASADENA, CA 91104

Drawing Title

BUILDDINGS D, F, & G
ENLARGED RESTROOM
ELECTRICAL PLANS

Job No. _____

Sheet No. _____

3189

FA3.04

03/24/2026