

PERALTA COMMUNITY COLLEGE DISTRICT BERKELEY CITY COLLEGE ENTRANCE DOOR REPLACEMENT

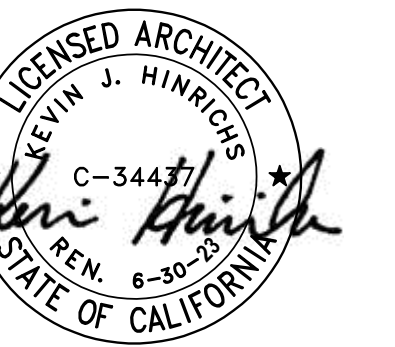
DSA APPLICATION NUMBER: 01-119701

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 01-119701 INC.
REVIEWED FOR:
SS FLS ACS
DATE: 01/19/2022

**TAYLOR
design**

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DESIGN PROFESSIONAL STAMP

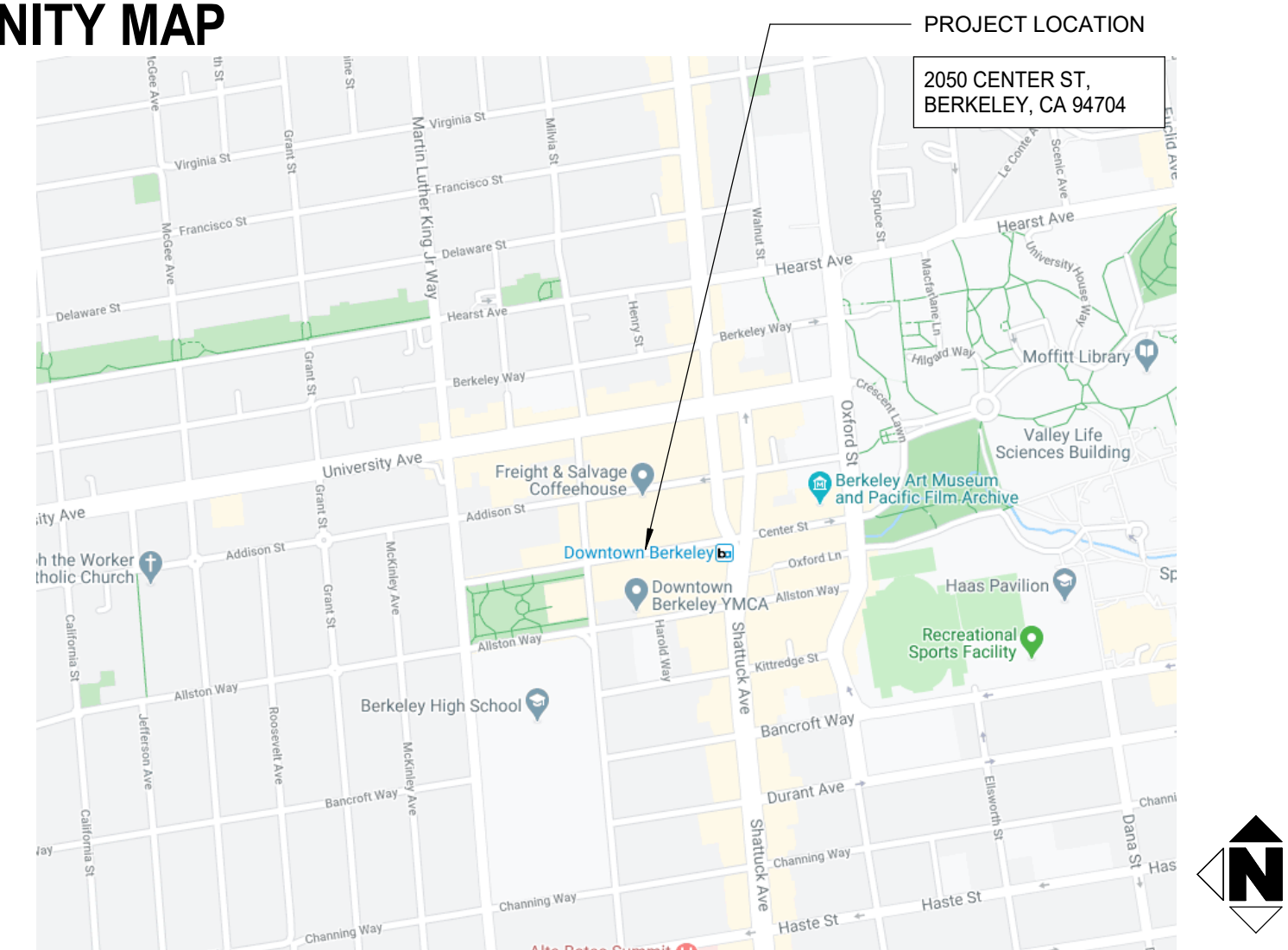


THIS PROJECT COMPLIES WITH CBC §202.4 EXCEPTION 3, ITEM 1. ADDITIONS OR ALTERATIONS TO MEET ACCESSIBILITY REQUIREMENTS CONSISTING OF ONE OR MORE OF THE FOLLOWING ITEMS SHALL BE LIMITED TO THE ACTUAL SCOPE OF WORK OF THE PROJECT AND SHALL NOT BE REQUIRED TO COMPLY WITH §11B-202.4. 1. ALTERING ONE BUILDING ENTRANCE.

ABBREVIATIONS

AB ANCHOR BOLT	HM HOLLOW METAL	P PAINT
AFF ABOVE FINISH FLOOR	HO HOLD-OPEN	PL STEEL PLATE
AL ALUMINIUM	HORZ HORIZONTAL	PLAM PLASTIC LAMINATE
AV AUDIO-VISUAL	HSS HOLLOW STRUCTURAL SECTION	RO ROUGH OPENING
BD BOARD	HT HEIGHT	REV REVISION
CA CLEAR ANODIZED	IBC INTERNATIONAL BUILDING CODE	RM ROOM
CF/CI CONTRACTOR FURNISHED CONTRACTOR INSTALLED	ID INSIDE DIAMETER	SC SOLID CORE
CJ CONTROL JOINT	IN INCH	SM SHEET METAL
CL CENTER LINE	INT INT	SMS SHEET METAL SCREW
CMU CONCRETE MASONRY UNIT	JT JOINT	SIM SIMILAR
COL COLUMN	KNOC KNOCK-DOWN FRAME	SPEC SPECIFICATION
CONC CONCRETE	LD LADDER	SQ SQUARE
CONT CONTINUOUS	LAV LAVATORY	SS STAINLESS STEEL
DE DUAL EGRESS	LB LBS POUNDS	STD STANDARD
DIA DIAMETER	LTWT LIGHT WEIGHT	STL STEEL
DIM DIMENSION	(ME) MATCH EXISTING	TG TEMPERED GLASS
(E) EXISTING	MDF MEDIUM DENSITY FIBERBOARD	TLT TOILET
EA EACH	MFR MANUFACTURER	TYP TYPICAL
EJ EXPANSION JOINT	MHO MAGNETIC HOLD-OPEN	UL UNDERWRITERS LABORATORY
EQ EQUAL	MO MASONRY OPENING	U/S UNDERSIDE
EQPT EQUIPMENT	MAX MAXIMUM	U.N.O. UNLESS NOTED OTHERWISE
FF FINISH FLOOR	MIN MINIMUM	VERT VERTICAL
FG FIRE-RATED GLASS	MISC MISCELLANEOUS	VFWI VENDOR FURNISHED VENDOR INSTALLED
FFG FROSTED FIRE-RATED GLASS	NEW (N) NOT APPLICABLE	VFCI VENDOR FURNISHED CONTRACTOR INSTALLED
FT FEET	N/A NOT TO SCALE	W/ WITH
FTG FROSTED TEMPERED GLASS	NO. NUMBER	W/O WITHOUT
FTDF FIRE TREATED DOUGLAS FIR	OC ON CENTER	WD WOOD
FOF FACE OF FINISH	OD OUTSIDE DIAMETER	WT WEIGHT
FOS FACE OF STUD	OF/CI CONTRACTOR INSTALLED CONTRACTOR INSTALLED	YD YARD
GA GAUGE	OF/OI OWNER FURNISHED OWNER INSTALLED	
GI GALVANIZED IRON	OPP OPPOSITE	
GYP GYPSUM	OH OPPOSITE HAND	

VICINITY MAP



PROJECT INFORMATION

PROJECT INFORMATION
REMOVE EXISTING ENTRY GLASS DOOR ASSEMBLY AND REPLACE WITH NEW DOOR ASSEMBLY. MODIFY THE EXISTING FIRE ALARM SYSTEM MONITORING THE DOORS TO ACCOMMODATE THE REPLACEMENT OF THE EXISTING DOORS. MODIFY THE EXISTING POWER SUPPLY SERVING THE EXISTING AUTOMATIC DOOR OPERATORS TO ACCOMMODATE THE REPLACEMENT OF THE EXISTING DOORS.

AUTHORITIES HAVING JURISDICTION (AHJ)
PLAN REVIEW/DIVISION OF THE STATE ARCHITECT (DSA)

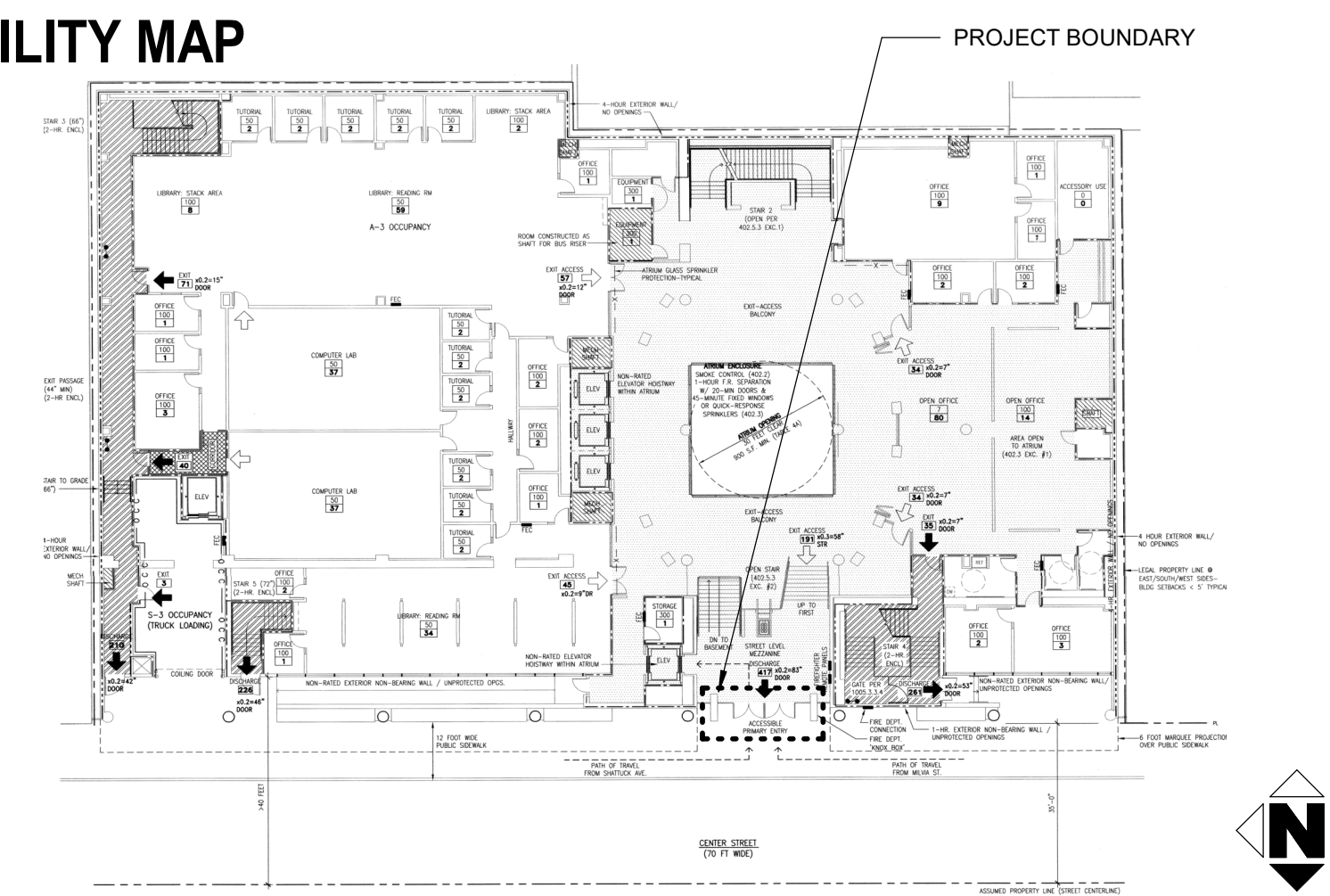
LOCATION AND ZONING
ADDRESS: 2050 CENTER ST, BERKELEY, CA 94704
EXISTING USE: CLASSROOMS, LIBRARY, TEACHING LABORATORIES, ASSEMBLY AREAS, EXHIBIT AREAS, AND OFFICES
PROPOSED USE: NO CHANGE

BUILDING INFORMATION
EXISTING BUILDING OCCUPANCY: BUSINESS GROUP B
PROPOSED BUILDING OCCUPANCY: NO CHANGE
PROPOSED BUILDING HEIGHT: NO CHANGE
EXISTING STORIES ABOVE GRADE PLANE: 6 STORIES
PROPOSED STORIES ABOVE GRADE PLANE: NO CHANGE
EXISTING BUILDING AREA: 160,000 SF
BUILDING AREA (AS DESCRIBED PER CBC SECTION 202): NO CHANGE
TYPE OF CONSTRUCTION: TYPE I
FIRE SPRINKLER COVERAGE: FULL

SHEET INDEX

GENERAL G-001 G-002 G-003	COVERSHEET (E) FIRE LIFE SAFETY AND ACCESSIBILITY PLAN GENERAL NOTES
ARCHITECTURAL A-121 A-601 A-602 A-603 A-604	LEVEL 1 - FLOOR PLANS, ELEVATIONS, AND DETAILS STOREFRONT SPECIFICATIONS DOOR HARDWARE DOOR HARDWARE GLAZING SPECIFICATIONS
FIRE ALARM FA-001 FA-002 FA-101 FA-201 FA-601 FA-701	COVER SHEET SEQUENCE OF OPERATION DEVICE PLACEMENT PLAN - BASEMENT RISER DIAGRAM CALCULATIONS AND SCHEDULES WIRING TYPICALS
ELECTRICAL E-001 E-101 E-201 E-301 E-401	SYMBOLS LIST, ABBREVIATIONS, DETAILS OVERALL GROUND AND FIRST FLOOR PLAN - ELECTRICAL ENLARGED FIRST FLOOR PLAN - DEMOLITION AND NEW ELECTRICAL ONE LINE DIAGRAM, PANEL, SCHEDULES, DETAILS SPECIFICATIONS

FACILITY MAP



PROJECT TEAM

OWNER PCCD 50 FRIDA KAHLO WAY, B204 SAN FRANCISCO, CA 94112 CONTACT: SUMMER NARANJO T: 415.225.0845 EMAIL: SNARANJO@KITCHELL.COM	FIRE ALARM ENGINEER JOHNSON CONTROLS FIRE PROTECTION LP 6952 PRESTON AVENUE SUITE A LIVERMORE, CA 94551 CONTACT: GARY HALE T: 925.273.1233 EMAIL: GARY.HALE@ICI.COM
ARCHITECT TAYLOR DESIGN 550 MONTGOMERY STREET, SUITE 925 SAN FRANCISCO CONTACT: KEVIN HINRICHS T: 415.857.8090 EMAIL: KHINRICHS@WEARETAYLOR.COM	ELECTRICAL ENGINEER EDGE ELECTRICAL CONSULTING 300 27TH STREET, SUITE 201 OAKLAND, CA 94612 CONTACT: MIGUEL CASTELLANOS T: 510.775.3836 EMAIL: MIGUEL@EDGE-ECONSULTING.COM

DEFERRED SUBMITTALS

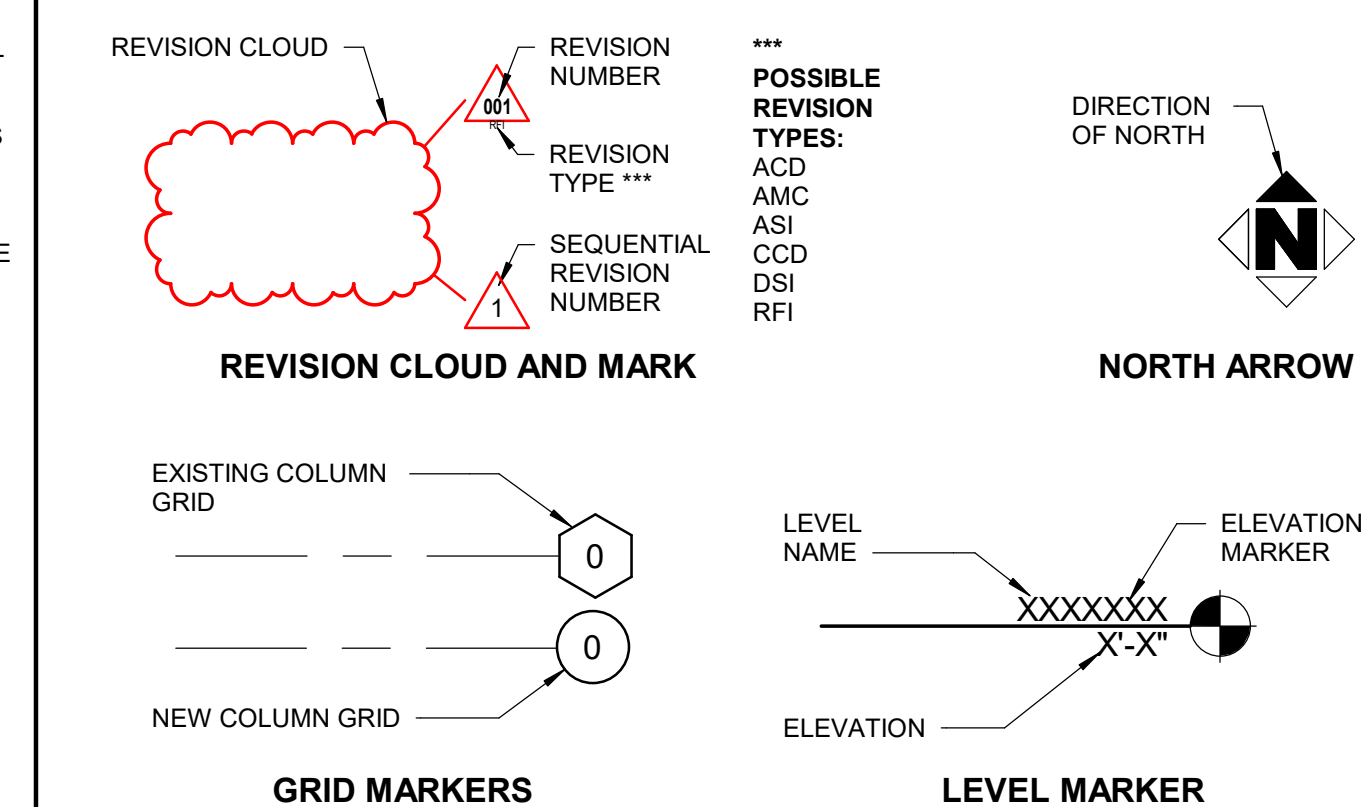
- NO DEFERRED SUBMITTALS

APPLICABLE CODES AND STANDARDS

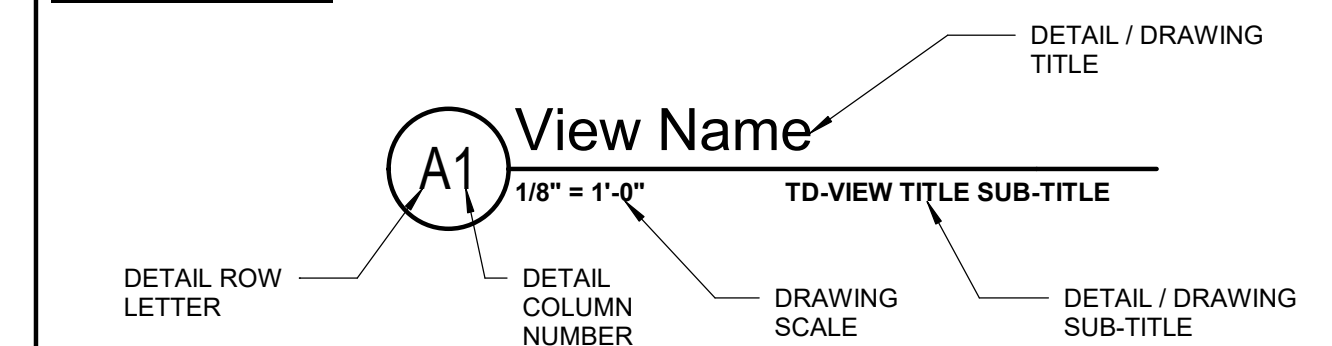
- THE CONTRACTOR SHALL NOTIFY THE DESIGN PROFESSIONAL OF RECORD IN RESPONSIBLE CHARGE WHERE A CONFLICT OR DISCREPANCY OCCURS BETWEEN THE CONSTRUCTION DRAWINGS AND ANY OTHER PORTION OF THE CONSTRUCTION DOCUMENTS, FIELD CONDITIONS, OR WHERE ANY CONDITIONS ARISE NOT COVERED BY THESE DOCUMENTS WHEREIN WORK WILL NOT COMPLY WITH CODE REQUIREMENTS.
- THE INTENT OF THE PLANS AND SPECIFICATIONS ARE TO CONSTRUCT OR ALTER THE BUILDING IN ACCORDANCE WITH TITLE 24, CALIFORNIA CODE OF REGULATIONS. SHOULD ANY CONDITIONS DEVELOP NOT COVERED BY THE APPROVED PLANS AND SPECIFICATIONS WHEREIN THE FINISHED WORK WILL NOT COMPLY WITH TITLE 24, CALIFORNIA CODE OF REGULATIONS, A CHANGE ORDER DETAILING AND SPECIFYING THE REQUIRED WORK SHALL BE SUBMITTED TO AND APPROVED BY THE AUTHORITY HAVING JURISDICTION (AHJ) BEFORE PROCEEDING WITH THE WORK.
- WORK PERFORMED WITHOUT AHJ APPROVAL IS DONE SO AT SOLE RISK TO THE CONTRACTOR WHO SHALL PROVIDE FOR REMOVAL, REPLACEMENT, OR CORRECTION OF WORK AT NO INCREASED COST UNLESS APPROVED TO PROCEED BY THE OWNER.
- ENFORCEABLE CODES: CONSTRUCTION, WORKMANSHIP AND MATERIAL SHALL CONFORM TO THE 2019 CALIFORNIA BUILDING STANDARDS CODE.
 - 2019 CALIFORNIA ADMINISTRATIVE CODE (CAC), PART 1, TITLE 24, CALIFORNIA CODE OF REGULATIONS (CCR)
 - 2019 CALIFORNIA BUILDING CODE (CBC), PART 2, TITLE 24, CCR
 - 2019 CALIFORNIA ELECTRICAL CODE (CEC), PART 3, TITLE 24, CCR
 - 2019 CALIFORNIA MECHANICAL CODE (CMC), PART 4, TITLE 24, CCR
 - 2019 CALIFORNIA PLUMBING CODE (CPC), PART 5, TITLE 24, CCR
 - 2019 CALIFORNIA ENERGY CODE (TILE 24), PART 6, TITLE 24, CCR
 - 2019 CALIFORNIA FIRE CODE (CFC), PART 9, TITLE 24, CCR
 - 2019 CALIFORNIA GREEN BUILDING STANDARDS CODE (CALGREEN), PART 11, TITLE 24, CCR, INCLUDING LOCAL JURISDICTION AMENDMENTS.
 - CURRENT LOCAL JURISDICTION AMENDED CODES, REGULATIONS, AND ORDINANCES.
 - 2010 ADA STANDARDS

DRAWING SYMBOLS

GRAPHIC SYMBOLS



VIEW TITLE



REVISION SCHEDULE		
NO.	REVISION NAME	DATE
1	DSA RESUBMITTAL - BC#2	11/19/2021

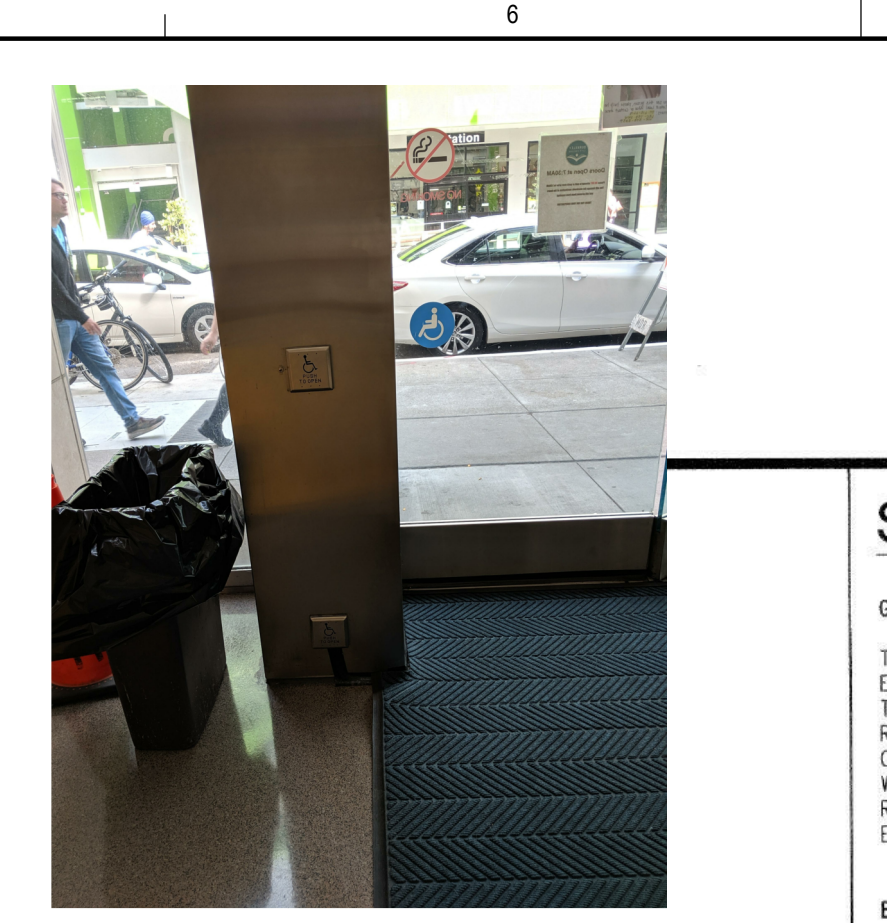
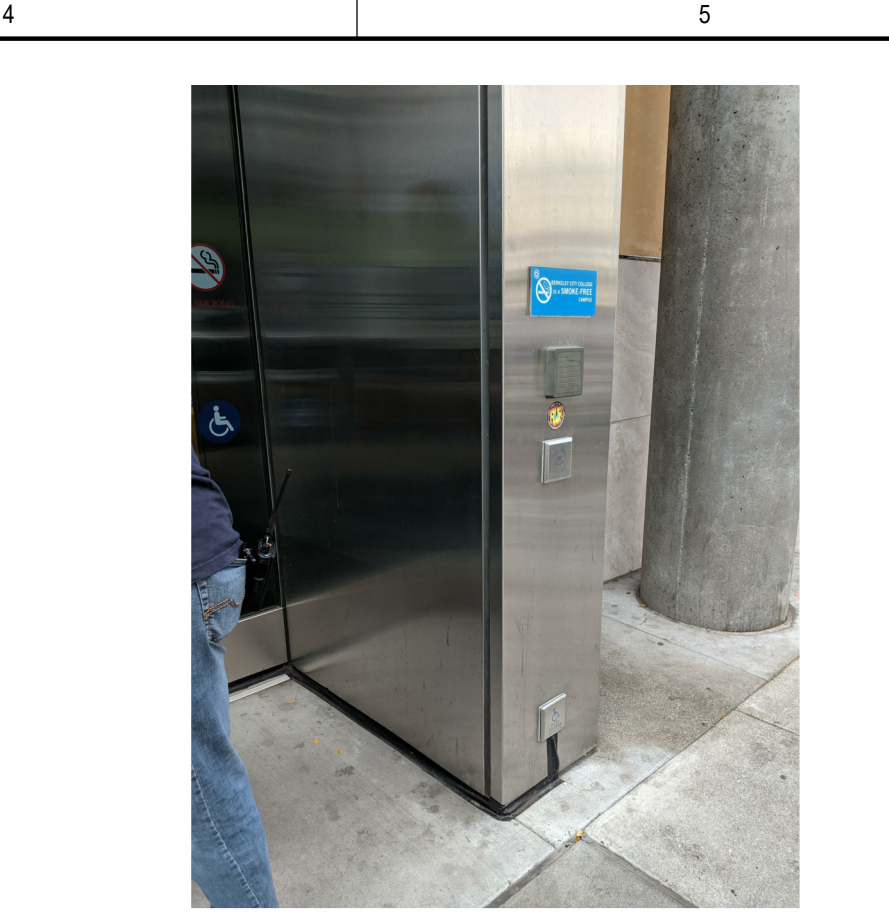
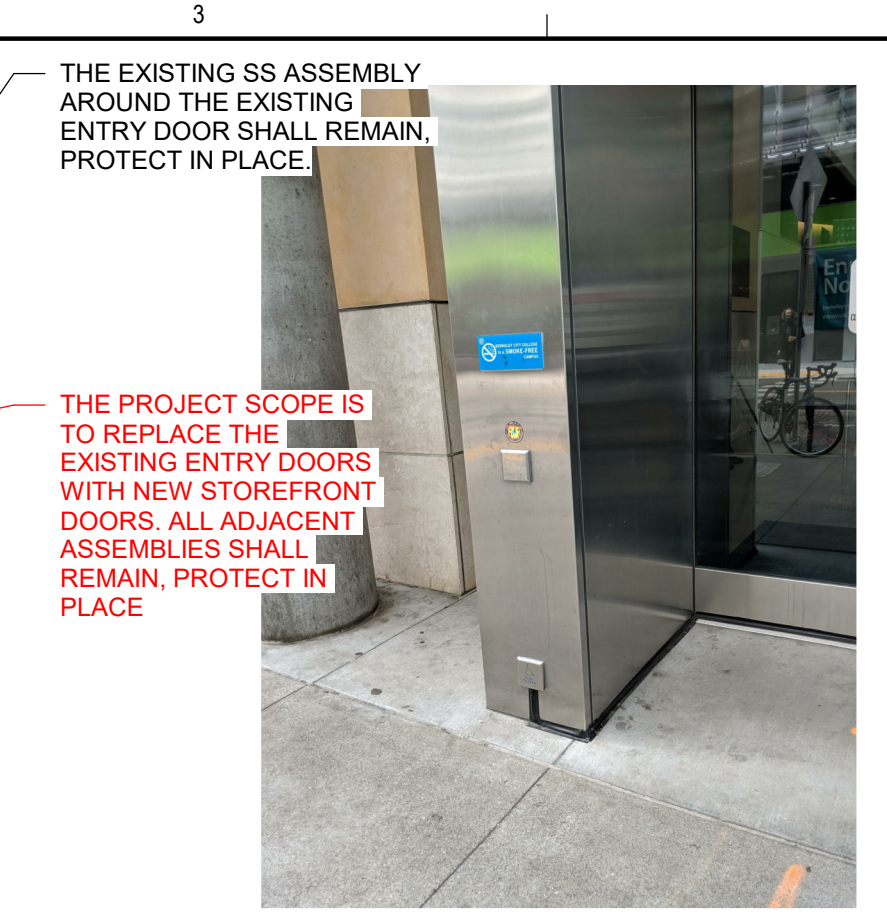
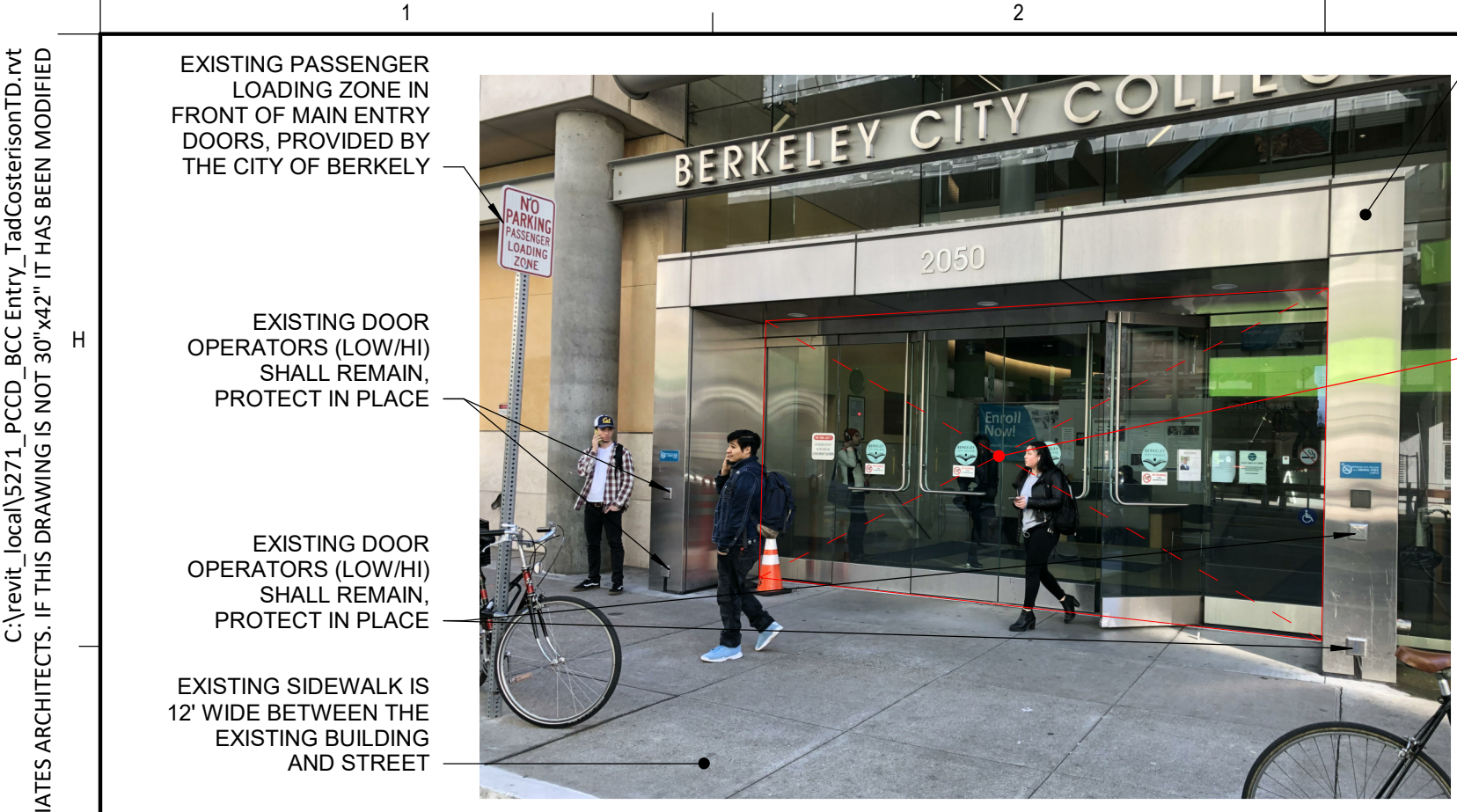
PROJECT INFORMATION
PCCD
BCC ENTRY DOOR REPLACEMENT
FACILITY NAME: BERKELEY CITY COLLEGE
FACILITY ADDRESS: 2050 CENTER ST, BERKELEY, CA 94704
UNIVERSITY PROJECT NUMBER:
AUTHORITY HAVING JURISDICTION: DSA
ARCHITECT PROJECT NO.: 6271.100

SHEET TITLE _____ DATE: 10/21/2021

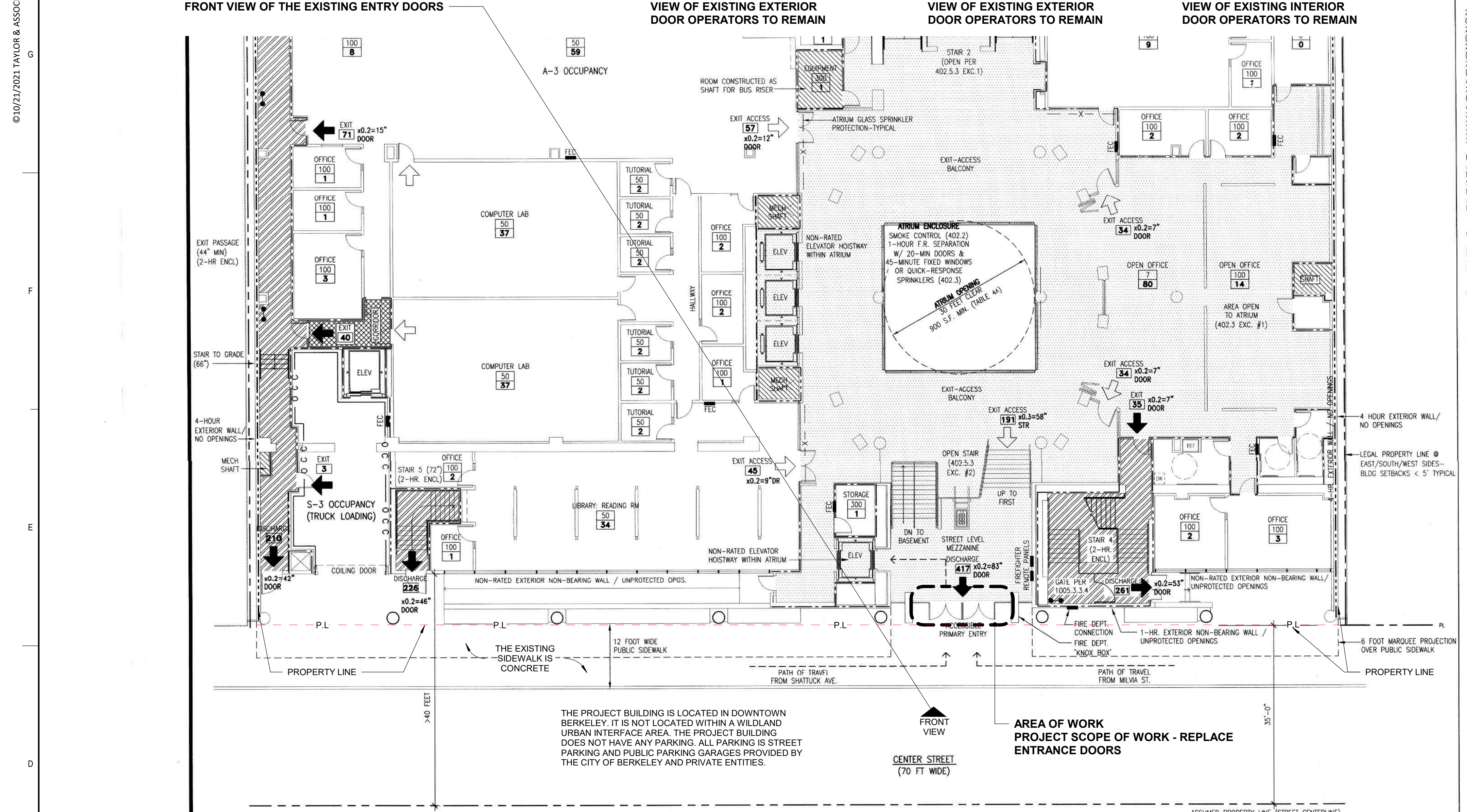
COVERSHEET

SHEET NUMBER
G-001

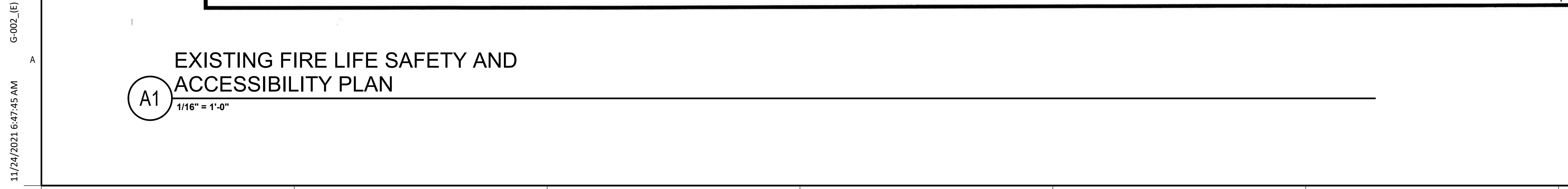
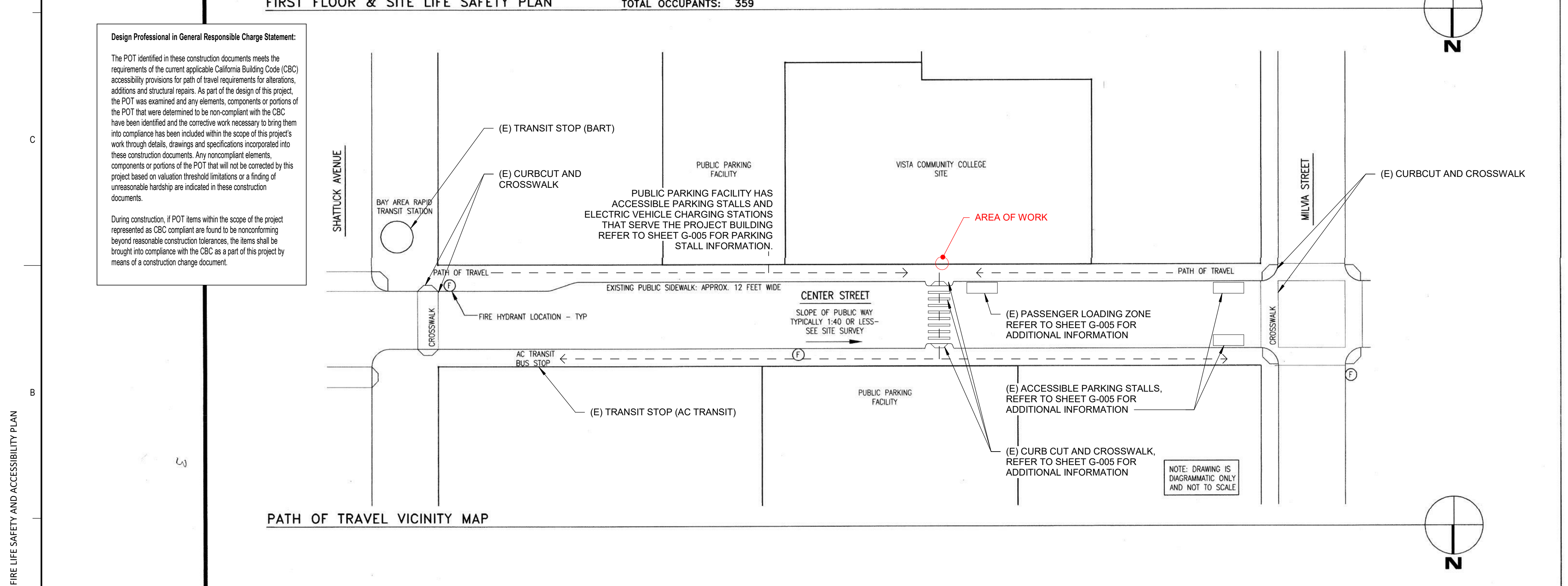
11/24/2021 6:47:42 AM G-001_COVERSHEET © 10/21/2021 TAYLOR & ASSOCIATES ARCHITECTS, INC. ALL RIGHTS RESERVED. THIS DRAWING IS NOT TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, WITHOUT THE WRITTEN PERMISSION OF TAYLOR & ASSOCIATES ARCHITECTS, INC. IT HAS BEEN ADVISED THAT THIS PROJECT COMPLIES WITH CBC §202.4 EXCEPTION 3, ITEM 1. ADDITIONS OR ALTERATIONS TO MEET ACCESSIBILITY REQUIREMENTS CONSISTING OF ONE OR MORE OF THE FOLLOWING ITEMS SHALL BE LIMITED TO THE ACTUAL SCOPE OF WORK OF THE PROJECT AND SHALL NOT BE REQUIRED TO COMPLY WITH §11B-202.4. 1. ALTERING ONE BUILDING ENTRANCE.



THE PROJECT SCOPE IS TO REPLACE THE EXISTING ENTRY DOORS WITH NEW STOREFRONT DOORS. ALL ADJACENT ASSEMBLIES SHALL REMAIN, PROTECT IN PLACE.



FIRST FLOOR & SITE LIFE SAFETY PLAN TOTAL OCCUPANTS: 359



SUMMARY CODE ANALYSIS

GENERAL DESCRIPTION: THE PROPOSED SIX-STORY CLASSROOM AND OFFICE BUILDING IS SURROUNDED BY EXISTING BUILDINGS ON THREE SIDES AND HAS OPPORTUNITY FOR EGRESS ONLY AT THE NORTH SIDE ALONG THE PUBLIC STREET. THE PUBLIC SIDEWALK IS SLOPED, REQUIRING TRANSITION STAIRS TO HOISTWAY AT ALL EXITS. A FULL-HEIGHT CENTRAL ATRIUM REPRESENTS A PORTION OF THE EXIT ACCESS, AND IS PROTECTED WITH FIRE-RESISTIVE SEPARATION, SMOKE CONTROL, AND FIRE SPRINKLERS AS REQUIRED. THERE SHALL BE NO HAZARDOUS MATERIALS STORED OR IN USE IN EXCESS OF EXEMPT QUANTITIES.

BASIS OF ANALYSIS: 2001 CALIFORNIA BUILDING STANDARDS ADMINISTRATIVE CODE (PART 1, TITLE 24, CCR); 2001 CALIFORNIA BUILDING CODE VOLUMES 1, 2 AND 3 (PART 2, TITLE 24, CCR); 1997 EDITION UNIFORM BUILDING CODE WITH 2001 CALIFORNIA AMENDMENTS; 2001 CALIFORNIA ELECTRICAL CODE (PART 3, TITLE 24, CCR); 1989 EDITION NATIONAL ELECTRICAL CODE WITH 2001 CALIFORNIA AMENDMENTS; 2001 CALIFORNIA MECHANICAL CODE (PART 4, TITLE 24, CCR); 2000 EDITION AP/MD UNIFORM PLUMBING CODE WITH 2001 CALIFORNIA AMENDMENTS; 2001 CALIFORNIA PLUMBING CODE (PART 5, TITLE 24, CCR); 2000 EDITION AP/MD UNIFORM PLUMBING CODE WITH 2001 CALIFORNIA AMENDMENTS; 2001 CALIFORNIA ENERGY CODE (PART 6, TITLE 24, CCR); 2001 CALIFORNIA ELEVATOR SAFETY CONSTRUCTION (PART 7, TITLE 24, CCR); 2001 CALIFORNIA FIRE CODE (PART 8, TITLE 24, CCR); 2001 CALIFORNIA RETROFITTED STRUCTURE CODE (PART 12, TITLE 24, CCR); NFPA 13, 1999 EDITION, THE INSTALLATION OF AUTOMATIC SPRINKLER SYSTEMS, AS AMENDED; NFPA 14, 2000 EDITION, INSTALLATION OF STANDPIPE, PRIVATE HYDRANT AND HOSE SYSTEMS; NFPA 24, 1995 EDITION, INSTALLATION OF PRIVATE FIRE SERVICE MAINS AND THEIR APPURTENANCES; NFPA 72, 1999 EDITION, NATIONAL FIRE ALARM CODE, AS AMENDED.

OCCUPANCY CLASSIFICATION: B: OFFICE & EDUCATIONAL; A-3: EDUCATIONAL > 50 PERSONS; S-3: PARKING GARAGE.

CONSTRUCTION TYPE: TYPE I-F-R, FULLY-SPRINKLERED (TABLE 6-4).

ALLOWABLE AREA: UNLIMITED (TABLE 5-8); PENTHOUSES: 1/3 TOTAL ROOF AREA (1511.2).

ACTUAL AREA (CSF): BASEMENT: 28,334 (GROUND FLOOR); FIRST FLOOR: 26,309; SECOND FLOOR: 27,687; THIRD FLOOR: 28,224; FOURTH FLOOR: 27,122; FIFTH FLOOR: 27,122; TOTAL: 164,768; PENTHOUSES: 6,500 (OF 25,766 ROOF = LESS THAN 1/3).

ALLOWABLE HEIGHT: UNLIMITED (TABLE 5-8); PENTHOUSES: FEET ABOVE ROOF (1511.3).

ACTUAL HEIGHT (SEE ALSO DIAGRAM G-005): 6 STORES; PENTHOUSES 13 FEET ABOVE ROOF.

NOTE: THE BUILDING IS NOT CLASSIFIABLE AS A "HIGHRISE" AS THE HIGHEST OCCUPABLE FLOOR IS LESS THAN 75 FEET BELOW FIRE DEPARTMENT VEHICLE ACCESS (85 FEET ACTUAL) (402.1).

EXTERIOR WALL CONSTRUCTION: (TABLE 5-4, NON-BEARING); 4 HOURS < 5 FEET / NO OPENINGS ALLOWED; 2 HOURS < 20 FEET / PROTECTED OPENINGS; 1 HOUR < 40 FEET / UNPROTECTED OPENINGS.

REQUIREMENTS BASED ON CONSTRUCTION TYPE: FIRE RESISTIVE REQUIREMENTS (TABLE 6-4); STRUCTURAL FRAME: 3 HOURS; PERMANENT PARTITIONS: 1 HOUR; SHaft ENCLOSURES: 2 HOURS; FLOORS & FLOOR/Ceilings: 2 HOURS; ROOFS & ROOF/Ceilings: 2 HOURS.

EXCEPTIONS: WHEN CONTAINING MECHANICAL EQUIPMENT ONLY, PENTHOUSE WALLS AND ROOF MAY BE OF ONE-HOUR FIRE CONSTRUCTION WHEN PENTHOUSE WALLS ARE AT LEAST 5 FEET FROM THE PROPERTY LINE, AND NON-RATED WHEN AT LEAST 20 FEET (1511.4); WHERE MORE RESTRICTIVE REQUIREMENTS DO NOT APPLY, PERMANENT PARTITIONS OF ONE-HOUR FIRE-RESISTIVE ASSEMBLY DO NOT REQUIRE OPENING PROTECTION NOR FIRE-RESISTIVE PENETRATION ASSEMBLIES.

SEE SHEETS G-007 THROUGH G-009 FOR FIREPROOFING SCHEDULE AND TYPICAL FIRE-RESISTIVE ASSEMBLIES AND PENETRATIONS FOR TYPES OF BUILDING COMPONENTS LISTED ABOVE.

SPRAY-APPLIED FIREPROOFING MATERIAL SHALL RECEIVE SPECIAL INSPECTION IN ACCORDANCE WITH UBC STANDARD 7-6 (1701.5.10).

REQUIREMENTS BASED ON OCCUPANCY: GROUP 1 DIVISION 3 OCCUPANCIES LOCATED IN A BASEMENT OR ABOVE THE FIRST FLOOR SHALL NOT BE OF LESS THAN ONE-HOUR FIRE-RESISTIVE CONSTRUCTION, AND DIVISION 3 OCCUPANCIES WITH AN OCCUPANT LOAD OF 50 OR MORE WHICH ARE LOCATED OVER USABLE SPACE SHALL BE SEPARATED FROM SUCH SPACE BY NOT LESS THAN ONE-HOUR FIRE-RESISTIVE CONSTRUCTION (303.2.2). NOTE: THESE REQUIREMENTS ARE EQUAL TO OR LESS THAN THOSE OF TABLE 6A (SEE ABOVE).

ASSEMBLY SPACE PLATFORMS NOT CONSIDERED STORAGE OR HABITABLE SPACE SHALL BE FIRE-RESISTED AND BE CONSTRUCTED OF COMBUSTIBLE MATERIALS (303.2.2, 402.7).

SLOPE OF A MAIN ASSEMBLY FLOOR & AISLE SHALL NOT EXCEED 1:12 WHEN REQUIRED TO BE ACCESSIBLE (303.2.2, 1003.3.4).

EXIT AND EXIT-ACCESS DOORS SERVING AN OCCUPANCY SHALL BE PROVIDED WITH PANIC HARDWARE (1007.2.5).

BUILDINGS HOUSING GROUP A OCCUPANCIES SHALL FRONT DIRECTLY ON A PUBLIC STREET NOT LESS THAN 20 FEET IN WIDTH. THE MAIN ENTRANCE TO THE BUILDING SHALL BE LOCATED ON THE PUBLIC STREET (402.3.3).

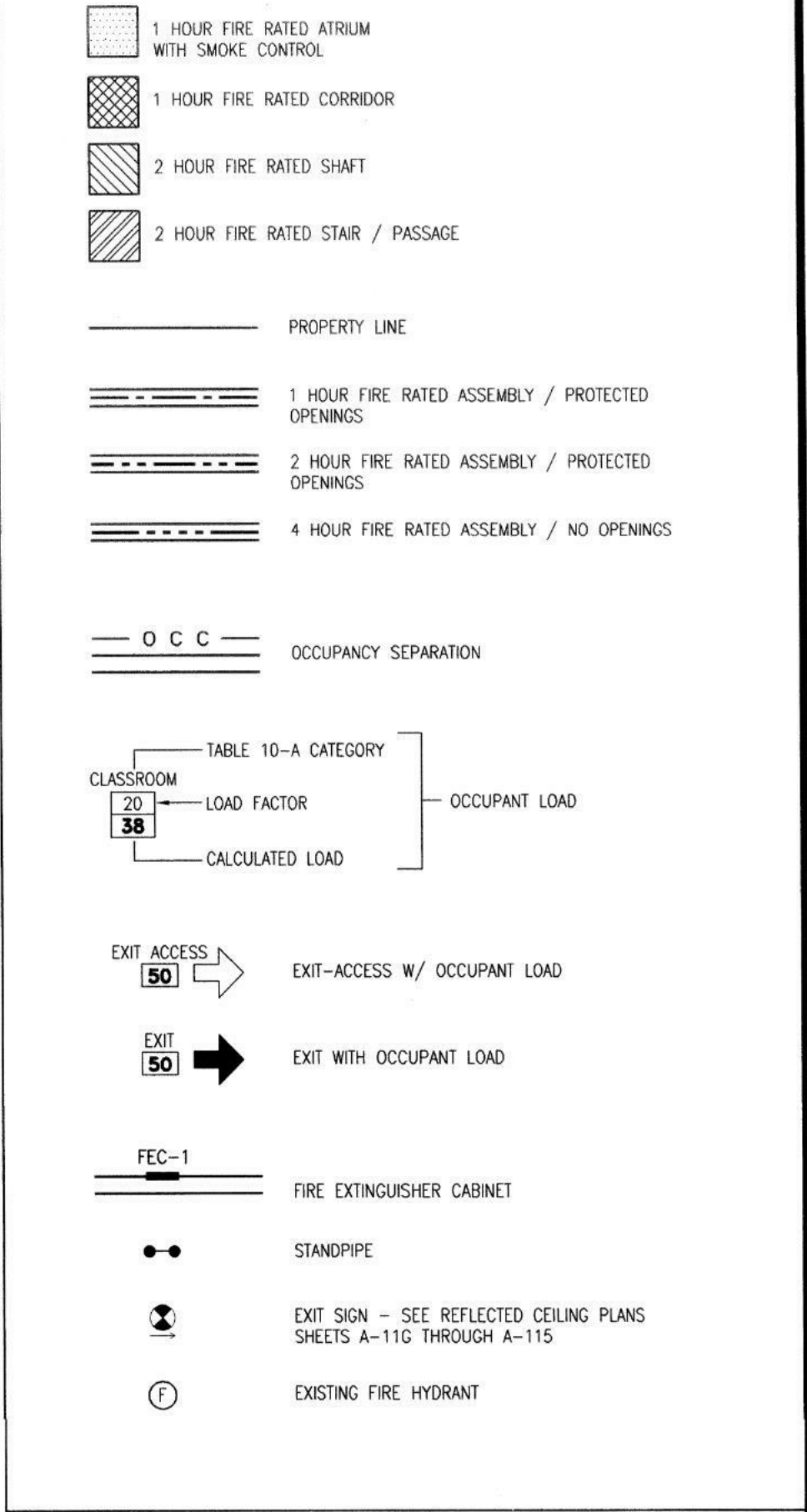
GROUP B EDUCATIONAL LABORATORIES, VOCATIONAL SHOPS, AND SIMILAR SPACES CONTAINING EXEMPT QUANTITIES OF HAZARDOUS MATERIALS SHALL BE SEPARATED FROM EACH OTHER AND THE REST OF THE BUILDING BY ONE-HOUR OCCUPANCY SEPARATION. LANS IN EXCESS OF 200 S.F. SHALL HAVE A MINIMUM TWO MEANS OF EGRESS (304.2.2.1) WITH ONE OF THOSE MEANS DIRECTLY TO A CORRIDOR OR EXIT (1004.3.3.2).

OCCUPANCY SEPARATION REQUIREMENTS (TABLE 3B): B AND A-3: NO REQUIREMENT FOR FIRE-RESISTANCE; B AND S-1: NO REQUIREMENT FOR FIRE-RESISTANCE; B AND S-3: ONE-HOUR OCCUPANCY SEPARATION.

REQUIREMENTS FOR ATRIA: ATRIA (OPENINGS THROUGH TWO OR MORE FLOOR LEVELS) ARE ALLOWED WHEN THE BUILDING IS SPRINKLERED THROUGHOUT, AN AUTOMATIC SMOKE CONTROL SYSTEM DESIGNED IN ACCORDANCE WITH SECTION 902 SHALL BE PROVIDED WITHIN THE ATRIUM (402.1, 402.2). NOTE: SEE ALSO SMOKE CONTROL REPORT, VISTA COMMUNITY COLLEGE (UNDER SEPARATE PUBLICATION FOR FIRE AND SMOKE SUPPRESSION SYSTEM DESIGN GUIDELINES).

ATRIA EXTENDING 5-7 STORES MUST HAVE 30 FOOT CLEAR MINIMUM OPENING DIMENSIONS (TABLE 4A).

LIFE SAFETY LEGEND



ANALYSIS, CONT'D.

ATRIA SHALL BE SEPARATED FROM ADJACENT TENANT SPACES BY ONE-HOUR FIRE-RESISTIVE CONSTRUCTION, EXCEPT THAT THE FIRE-RESISTIVE SEPARATION MAY BE OMITTED ON UP TO THREE FLOORS. FIXED GLAZED OPENINGS SHALL BE LABELED 45-MINUTE AND OTHER OPENINGS 20-MINUTE (402.3). IN LIEU OF LABELED ASSEMBLIES, THESE OPENINGS MAY BE OF NON-RATED TEMPERED GLASS PROTECTED BY A SPRINKLER SYSTEM EQUIPPED WITH QUICK RESPONSE SPRINKLERS THAT SHALL WET ENTIRE SURFACE OF GLASS, BOTH SIDES. ONE SIDE MAY BE OMITTED IF NO WALKING SURFACE EXISTS ON THAT SIDE (EXCEPTION 2).

OPEN EXIT-ACCESS BALCONIES ARE ALLOWED WITHIN THE ATRIUM, NOT MORE THAN 100 FEET OF THE 250 FOOT TOTAL TRAVEL DISTANCE TO AT LEAST ONE EXIT MAY OCCUR ON THE BALCONY (402.3, 1004.2.5).

ELEVATORS LOCATED ENTIRELY WITHIN THE ATRIUM NEED NOT BE ENCLOSED (402.4).

STAIRS & RAMPS NOT REQUIRED FOR EGRESS AND STAIRS AND RAMPS CONNECTING THE LOWEST TWO FLOORS OF THE ATRIUM MAY BE OPEN TO THE ATRIUM (402.3.3).

OCCUPANT LOAD: OCCUPANT LOADS OF INDIVIDUAL SPACES ARE DETERMINED BY DIVIDING THE OCCUPANT LOAD FOR THE APPROPRIATE USE LISTED IN TABLE 10-A INTO THE SQUARE FOOTAGE, APPLICABLE TABLE 10-A LOAD FACTORS FOR THIS PROJECT INCLUDE:

OFFICE: 100
CLASSROOMS: 20
SCHOOL SHOPS & VOCATIONAL ROOMS (INCLUDES TEACHING LABS & COMPUTER LABS): 50
LIBRARY READING AREA: 50
LIBRARY STACK AREA: 100
EQUIPMENT & STORAGE: 300

EXITING: TWO MEANS OF EGRESS REQUIRED WHEN NUMBER OF OCCUPANTS IN INDIVIDUAL SPACES OR CUMULATIVELY EXCEED THE FOLLOWING (TABLE 10-A): CLASSROOMS & LIBRARY READING ROOMS: 50; OFFICES, STORAGE, AND LIBRARY STACK AREAS: 30; MECHANICAL (UTILITY); MINIMUM TWO MEANS OF ACCESS TO EXITS REQUIRED AT EACH FLOOR, & MINIMUM THREE REQUIRED WHEN OCCUPANCY ON THAT FLOOR EXCEEDS 500 (1004.2.3.2, 1004.2.3.4); EXIT-ACCESS TRAVEL DISTANCE TO THE NEAREST EXIT NOT TO EXCEED 250 FEET (1004.2.3); SEE DIAGRAM SHEET G-004 FOR TYPICAL CORRIDOR CONSTRUCTION (1004.3.4.3); STAIRWAY EXIT ENCLOSURES SHALL BE OF TWO-HOUR FIRE-RESISTIVE CONSTRUCTION (1003.3.3); EXIT PASSENGERZONES SHALL BE OF TWO-HOUR FIRE-RESISTIVE CONSTRUCTION (1003.3.4). SEE DIAGRAM SHEET G-004.

ELEVATORS: ELEVATOR LOBBIES SHALL BE OF ONE-HOUR FIRE-RESISTIVE CONSTRUCTION W/ 45-MINUTE FIXED GLAZED OPENINGS AND 20-MINUTE SELF-CLOSING DOOR OPENINGS. FIRE-RESISTIVE SEPARATION IS NOT REQUIRED AT ENTRANCE LEVEL ELEVATOR LOBBIES, AT LOBBIES WITHIN ATRIA, NOR WHERE APPROVED SMOKE & DRAFT CONTROL DOORS ARE PROVIDED AT THE HOISTWAY OPENING (1004.3.4.5); HOISTWAY SHAFTS SHALL BE OF TWO-HOUR FIRE-RESISTIVE CONSTRUCTION WITH 90-MINUTE OPENINGS. ELEVATOR LOBBIES SHALL HAVE AT LEAST ONE MEANS OF EGRESS (EXC. 711.4, TABLE 6A-4).

HOISTWAYS SHALL BE VENTED TO THE OUTSIDE (3004); AT LEAST ONE CAB SHALL HAVE MINIMUM CLEAR DIMENSIONS 80" X 54" (3003.5).

SKYLIGHTS: GLAZING SLOPED IN EXCESS OF 15 DEGREES FROM VERTICAL SHALL BE OF LAMINATED GLASS IF SINGLE-GLAZED. IF DOUBLE-GLAZED, THE BOTTOM LAYER MUST BE LAMINATED OR SCREENS MUST BE PROVIDED (2409.2, 2409.3); FRAMES SHALL BE OF NON-COMBUSTIBLE MATERIALS AND SHALL BE SET ON CURBS (EXC. 711.4, TABLE 6A-4); GLAZING SUBJECT TO FLOOR OR SIDEWALK LOADS MUST MEET THE REQUIREMENTS OF 2409.6.

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J. H. HARRIS
No. C-3447
EXPIRES 6-30-25
STATE OF CALIFORNIA

LICENSED ARCHITECT
OVERSEER BRIDGE
No. C-831
EXPIRES 6-30-25
STATE OF CALIFORNIA

BID SET
16 APRIL 2004

FILE NO: 01-105617
DATE: APR 22 2004

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP. NO. 01-105617
AC. LE. FLS. ACS. [initials]
DATE: APR 22 2004

Vista Community College
Permanent Campus
2050 Center Street
Berkeley, CA 94707

REVISION SCHEDULE
NO. REVISION NAME DATE
1 DSA SUBMITTAL - BC#2 11/19/2021

PROJECT INFORMATION
PCCD
BCC ENTRY DOOR REPLACEMENT

FACILITY NAME: BERKELEY CITY COLLEGE
FACILITY ADDRESS: 2050 CENTER ST, BERKELEY, CA 94704
UNIVERSITY PROJECT NUMBER:
AUTHORITY HAVING JURISDICTION: DSA
ARCHITECT PROJECT NO.: 6271.100

DRAWING TITLE
CODE ANALYSIS
LIFE SAFETY PLAN:
FIRST FLOOR & SITE

SCALE: 3/32" = 1'-0" DRAWN BY: MOM
PROJECT NO: 20046.00 CHECKED BY: -

SHEET NO: **G-003**

EXISTING LIFE SAFETY PLAN - DSA 01-105617
NO CHANGE TO THE ORIGINAL LIFE SAFETY OR ACCESSIBILITY DESIGN FOR THE BUILDING

(E) FIRE LIFE SAFETY AND ACCESSIBILITY PLAN

SHEET NUMBER **G-002** SCALE: 1/16" = 1'-0"

CFC CHAPTER 33 2019

- 1. DURING CONSTRUCTION, ALTERATION AND DEMOLITION OPERATIONS, COMPLY WITH NFPA 241 2004 EDITION. (CFC 3301.1)
2. TEMPORARY HEATING EQUIPMENT SHALL BE IN ACCORDANCE WITH SECTION 3303 OF THE 2019 CALIFORNIA FIRE CODE.
3. PRECAUTIONS AGAINST FIRE SHALL BE IN ACCORDANCE WITH SECTION 3304 OF THE 2019 CALIFORNIA FIRE CODE.
4. CUTTING AND WELDING OPERATIONS SHALL BE IN ACCORDANCE WITH CHAPTER 35 OF THE 2019 CALIFORNIA FIRE CODE. (2019 CFC 3304.6)
5. STORAGE, USE AND HANDLING OF FLAMMABLE AND COMBUSTIBLE LIQUIDS SHALL BE IN ACCORDANCE WITH SECTION 5704 OF THE 2019 CALIFORNIA FIRE CODE. (2019 CFC 3305)
6. FLAMMABLE AND COMBUSTIBLE LIQUID STORAGE AREAS SHALL BE MAINTAINED CLEAR OF COMBUSTIBLE VEGETATION, WASTE MATERIALS AND STORAGE OF COMBUSTIBLE MATERIALS. (2019 CFC 3305.3)
7. SMOKING SHALL BE PROHIBITED EXCEPT IN APPROVED AREAS. IN APPROVED AREAS WHERE SMOKING IS PERMITTED, SIGNS SHALL BE POSTED AND APPROVED ASHTRAYS SHALL BE PROVIDED IN ACCORDANCE WITH SECTION 310. (2019 CFC 3304.1, 3305.4)
8. CLASS I AND II LIQUIDS SHALL BE KEPT IN APPROVED SAFETY CONTAINERS. (2019 CFC 3305.5)
9. LEAKING SAFETY CONTAINERS SHALL BE IMMEDIATELY REPAIRED OR TAKEN OUT OF SERVICE. SPILLS SHALL BE IMMEDIATELY CLEANED UP AND PROPERLY DISPOSED. (2019 CFC 3305.6)
10. STORAGE, USE AND HANDLING OF FLAMMABLE GASES SHALL BE IN ACCORDANCE WITH CHAPTER 58 OF THE 2019 CALIFORNIA FIRE CODE. (2019 CFC 3306)
11. STORAGE, USE AND HANDLING OF EXPLOSIVE MATERIALS SHALL BE IN ACCORDANCE WITH CHAPTER 56 OF THE 2019 CALIFORNIA FIRE CODE. (2019 CFC 3307)
12. OWNERS SHALL DESIGNATE A PERSON TO BE THE FIRE PREVENTION PROGRAM SUPERINTENDENT. (2019 CFC 3308.1)
13. FIRE PREVENTION PROGRAM SUPERINTENDENT SHALL DEVELOP AND MAINTAIN AN APPROVED PRE-FIRE PLAN IN COOPERATION WITH THE FIRE CHIEF. FIRE CHIEF, FIRE CODE OFFICIAL SHALL BE IMMEDIATELY NOTIFIED OF ANY CHANGES AFFECTING THE UTILIZATION OF THE PRE-FIRE PLAN. (2019 CFC 3308.2)
14. FIRE PREVENTION PROGRAM SUPERINTENDENT SHALL BE RESPONSIBLE FOR TRAINING OF RESPONSIBLE PERSONNEL IN THE USE OF FIRE PROTECTION EQUIPMENT. (2019 CFC 3308.3)
15. FIRE PREVENTION PROGRAM SUPERINTENDENT SHALL BE RESPONSIBLE FOR THE SERVICE AND MAINTENANCE FOR PROTECTION EQUIPMENT. (2019 CFC 3308.4)
16. FIRE PREVENTION PROGRAM SUPERINTENDENT SHALL BE RESPONSIBLE FOR SUPERVISING THE PERMIT SYSTEM FOR HOT WORK OPERATIONS IN ACCORDANCE WITH 2019 CALIFORNIA FIRE CODE CHAPTER 35 (2019 CFC 3308.5)
17. IMPAIRMENT TO ANY FIRE PROTECTION SYSTEM SHALL BE IN ACCORDANCE WITH 2019 CALIFORNIA FIRE CODE SECTION 901. (2019 CFC 3308.6)
18. AN EMERGENCY TELEPHONE SHALL BE READILY ACCESSIBLE IN AN APPROVED LOCATION. THE EMERGENCY FIRE DEPARTMENT NUMBER AND THE CONSTRUCTION SITE ADDRESS SHALL BE POSTED ADJACENT TO THE TELEPHONE. (2019 CFC 3309)
19. APPROVED VEHICLE ACCESS FOR FIRE FIGHTING SHALL BE PROVIDED TO ALL CONSTRUCTION OR DEMOLITION SITES. VEHICLE ACCESS SHALL BE PROVIDED TO WITHIN 100 FEET OF TEMPORARY OR PERMANENT FIRE DEPARTMENT CONNECTIONS. VEHICLE ACCESS SHALL BE PROVIDED BY EITHER TEMPORARY OR PERMANENT ROADS, CAPABLE OF SUPPORTING VEHICLE LOADING UNDER ALL WEATHER CONDITIONS. VEHICLE ACCESS SHALL BE MAINTAINED UNTIL PERMANENT FIRE APPARATUS ACCESS ROADS ARE AVAILABLE. (2019 CFC 3310.1)
20. PROVIDE KEY BOX IN ACCORDANCE WITH 2019 CALIFORNIA FIRE CODE CHAPTER 5. (2019 CFC 3310.2)
21. DURING CONSTRUCTION, ALTERATION, REMODELING, AND DEMOLITION, REQUIRED MEANS OF EGRESS SHALL BE MAINTAINED. (2019 CFC 3311.2)
22. PROVIDE APPROVED FIRE PROTECTION WATER SUPPLY PRIOR TO ARRIVAL OF COMBUSTIBLE MATERIALS ON SITE. (2019 CFC 3312)
23. IN BUILDINGS REQUIRED TO HAVE STAND PIPES BY 905.3.1 NOT LESS THAN ONE STANDPIPE SHALL BE PROVIDED FOR USE DURING CONSTRUCTION. SUCH STANDPIPES SHALL BE INSTALLED PRIOR TO BUILDING EXCEEDING 40 FEET ABOVE THE LOWEST LEVEL OF FIRE DEPARTMENT VEHICLE ACCESS. SUCH STANDPIPE SHALL PROVIDE FIRE DEPARTMENT ACCESSIBLE HOSE CONNECTIONS ADJACENT TO USABLE STAIRS. MAINTAIN STAND PIPE WITHIN ONE FLOOR OF HIGHEST POINT OF CONSTRUCTION HAVING SECURED DECKING OR FLOORING. (2019 CFC 3313.1)
24. EXISTING BUILDING BEING DEMOLISHED SHALL MAINTAIN STAND PIPE IN OPERATIONAL CONDITION NOT MORE THAN ONE FLOOR BELOW FLOOR BEING DEMOLISHED. (2019 CFC 3313.2) IN BUILDINGS WHERE AN AUTOMATIC SPRINKLER SYSTEM IS REQUIRED BY THIS CODE OR THE CALIFORNIA BUILDING CODE, NO PORTION OF THE BUILDING OR STRUCTURE SHALL BE OCCUPIED PRIOR TO TESTING AND APPROVAL OF THE AUTOMATIC FIRE SPRINKLER SYSTEM. (2019 CFC 3314.1)
25. DURING CONSTRUCTION, ALTERATION AND DEMOLITION PROVIDE MINIMUM ONE APPROVED PORTABLE FIRE EXTINGUISHER IN ACCORDANCE WITH SECTION 906 AT EACH STAIRWAY ON ALL FLOORS WHERE COMBUSTIBLE MATERIALS HAVE ACCUMULATED, IN EVERY STORAGE AND CONSTRUCTION SHED, AND WHERE SPECIAL HAZARDS EXIST. (2019 CFC 3315)
26. INTERNAL-COMBUSTION-POWERED CONSTRUCTION EQUIPMENT SHALL BE USED SO THAT EXHAUST DOES NOT DISCHARGE AGAINST COMBUSTIBLE MATERIAL. EXHAUST IS PIPED TO THE OUTSIDE OF THE BUILDING, NO REFUELING TAKES PLACE WHILE IN OPERATION, AND SO THAT EQUIPMENT FUEL IS STORED IN AN APPROVED LOCATION OUTSIDE OF THE BUILDING. (2019 CFC 3316.1)
27. HOT WORK ROOFING OPERATIONS SHALL BE CONDUCTED IN ACCORDANCE WITH SECTIONS 3317.2 AND 3317.3 AND CHAPTER 35. (2019 CFC 3317.1)
28. ROOFING OPERATIONS UTILIZING ASPHALT AND TAR KETTLES SHALL BE CONDUCTED IN ACCORDANCE WITH 2019 CALIFORNIA FIRE CODE SECTION 303. (2019 CFC 3317.2)
29. HOT WORK ROOFING OPERATION SHALL BE PROVIDED WITH MINIMUM ONE MULTIPURPOSE PORTABLE FIRE EXTINGUISHER. FIRE EXTINGUISHER SHALL HAVE MINIMUM 3-A 40-B-C RATING. (2019 CFC 1417.3)

GENERAL ACCESSIBILITY NOTES

- 1. COMPLY WITH THE (ADA) AMERICAN WITH DISABILITY ACT AND THE TITLE 24 ACCESSIBILITY REQUIREMENTS OF THE C.B.C. CHAPTER 11B.
A. CONSTRUCTION SUPPORT FACILITIES
a. CONTRACTOR SHALL APPLY REQUIREMENTS TO TEMPORARY OR PERMANENT CONSTRUCTION SUPPORT FACILITIES FOR USES AND ACTIVITIES NOT DIRECTLY ASSOCIATED WITH THE ACTUAL PROCESSES OF CONSTRUCTION, INCLUDING BUT NOT LIMITED TO OFFICES, MEETING ROOMS, PLAN ROOMS, OTHER ADMINISTRATIVE OR SUPPORT FUNCTIONS, WHEN PROVIDED. TOILET AND BATHING FACILITIES SERVING CONSTRUCTION SUPPORT FACILITIES SHALL COMPLY WITH SECTION 11B-213. WHEN TOILET AND BATHING FACILITIES SERVING CONSTRUCTION SUPPORT FACILITIES ARE PROVIDED BY PORTABLE UNITS, AT LEAST ONE OF EACH TYPE SHALL BE ACCESSIBLE AND CONNECTED TO THE CONSTRUCTION SUPPORT FACILITIES IT SERVES BY AN ACCESSIBLE ROUTE. CBC 11B-201.4
2. WHERE CBC CHAPTER 11B AND THE ADA ARE AT VARIANCE WITH EACH OTHER IN THEIR REQUIREMENTS, COMPLY WITH THE MORE RESTRICTIVE REQUIREMENT THAT SATISFIES BOTH CODES. THE DIVISION OF THE STATE ARCHITECT HAS ISSUED INTERPRETATIONS FOR SOME SPECIFIC CONFLICTS AS FOLLOWS:
A. REFER TO DSAR 11B-4 FOR ALTERNATIVE DESIGNS OF DETECTABLE WARNING SURFACES;
B. REFER TO DSAR 11B-5 FOR TECHNICAL CRITERIA TO OPERATE EXTERIOR DOORS.
3. ACCESSIBLE ROUTE OF TRAVEL (PATH OF TRAVEL):
A. PROVIDE AN ACCESSIBLE ROUTE OF TRAVEL COMPLYING WITH CBC 11B-402.1;
B. AT LEAST ONE ACCESSIBLE ROUTE WITHIN THE BOUNDARY OF THE SITE SHALL BE PROVIDED FROM PUBLIC TRANSPORTATION STOPS, ACCESSIBLE PARKING AND ACCESSIBLE PASSENGER LOADING ZONES AND PUBLIC STREETS OR SIDEWALKS TO THE ACCESSIBLE BUILDING ENTRANCE THEY SERVE. (CBC 11B-206.2.1);
C. AT LEAST ONE ACCESSIBLE ROUTE SHALL CONNECT ACCESSIBLE BUILDINGS, FACILITIES, ELEMENTS AND SPACES THAT ARE ON THE SAME SITE. (CBC 11B-206.2.2);
D. AT LEAST ONE ACCESSIBLE ROUTE SHALL CONNECT ACCESSIBLE BUILDING OR FACILITY ENTRANCES WITH ALL ACCESSIBLE SPACES AND ELEMENTS WITHIN THE BUILDING OR FACILITY (CBC 11B-206.2.4);
E. ALL ENTRANCES AND EXTERIOR GROUND-FLOOR EXITS TO BUILDINGS AND FACILITIES SHALL COMPLY WITH SECTION 11B-404 (CBC 11B-206.4.1);
F. IN EXISTING FACILITIES AND FACILITIES WHERE NOT ALL ENTRANCES COMPLY WITH SECTION 11B-404, ENTRANCES COMPLYING WITH SECTION 11B-404 SHALL BE IDENTIFIED BY THE INTERNATIONAL SYMBOL OF ACCESSIBILITY COMPLYING WITH SECTION 11B-703.7.2.1. DIRECTIONAL SIGNS COMPLYING WITH 11B-703.5 THAT INDICATE THE LOCATION OF THE NEAREST ENTRANCE COMPLYING WITH SECTION 11B-404 SHALL BE PROVIDED AT ENTRANCES THAT DO NOT COMPLY WITH SECTION 11B-404. DIRECTIONAL SIGNS COMPLYING WITH SECTION 11B-703.5, INCLUDING THE INTERNATIONAL SYMBOL OF ACCESSIBILITY COMPLYING WITH SECTION 11B-703.7.2.1 INDICATING THE ACCESSIBLE ROUTE TO THE NEAREST ACCESSIBLE ENTRANCE SHALL BE PROVIDED AT JUNCTIONS WHEN THE ACCESSIBLE ROUTE DIVERGES FROM THE REGULAR CIRCULATION PATH. (CBC 11B-216.6);
G. CURB RAMPS, BLENDED TRANSITIONS AND ISLANDS ON ACCESSIBLE ROUTES SHALL COMPLY WITH SECTION 11B-406. CURB RAMPS MAY BE PERPENDICULAR, PARALLEL, OR A COMBINATION OF PERPENDICULAR AND PARALLEL. (CBC 11B-406.1);
H. WHERE PROVIDED, PASSENGER DROP-OFF AND LOADING ZONES SHALL COMPLY WITH CBC 11B-503. PASSENGER DROP-OFF AND LOADING ZONES SHALL PROVIDE ACCESS AISLES COMPLYING WITH SECTION 503 ADJACENT AND PARALLEL TO THE VEHICLE FULL-UP SPACE. ACCESS AISLES SHALL ADJOIN AN ACCESSIBLE ROUTE AND SHALL NOT OVERLAP THE VEHICULAR WAY;
I. RAMPS USED AS EXITS (MATERIAL DELETED) SHALL COMPLY WITH CBC 1022.1 AND CBC 1026.1. RAMPS ON ACCESSIBLE ROUTES SHALL COMPLY WITH SECTION 11B-405;
J. ACCESSIBLE WALKING SURFACES SHALL COMPLY WITH CBC 11B-403.1;
K. CHANGES IN LEVEL MAY BE VERTICAL WITHOUT EDGE TREATMENT UP TO 1/4". CHANGES IN LEVEL BETWEEN 1/4" AND 1/2" SHALL BE BEVELED AND WITH A SLOPE NO GREATER THAN 1:2. CHANGES IN LEVEL GREATER THAN 1/2" SHALL BE ACCOMMODATED BY MEANS OF A COMPLYING CURB RAMP, RAMP, ELEVATOR OR PLATFORM LIFT. (CBC 11B-303);
L. CROSS-SLOPE OF WALKING SURFACES SHALL NOT BE STEEPER THAN 1:48 (CBC 11B-403.3). CROSS SLOPE OF RAMP RUNS SHALL NOT BE STEEPER THAN 1:48. CHANGES IN LEVEL OTHER THAN THE RUNNING SLOPE AND CROSS SLOPE ARE NOT PERMITTED ON RAMP RUNS. (CBC 11B-405.4);
M. IN NEW CONSTRUCTION OF BUILDINGS WHERE ELEVATORS ARE REQUIRED BY SECTION 11B-206.2.3 AND WHICH EXCEED 10,000 SQUARE FEET ON ANY FLOOR, AN ACCESSIBLE MEANS OF VERTICAL ACCESS VIA RAMP, ELEVATOR OR LIFT SHALL BE PROVIDED WITHIN 200 FEET OF TRAVEL OF EACH STAIR AND EACH ESCALATOR. IN EXISTING BUILDINGS THAT EXCEED 10,000 SQUARE FEET ON ANY FLOOR AND IN WHICH ELEVATORS ARE REQUIRED BY SECTION 11B-206.2.3 WHENEVER A NEWLY CONSTRUCTED MEANS OF VERTICAL ACCESS IS PROVIDED VIA STAIRS OR AN ESCALATOR, AN ACCESSIBLE MEANS OF VERTICAL ACCESS VIA RAMP, ELEVATOR OR LIFT SHALL BE PROVIDED WITHIN 200 FEET OF TRAVEL OF EACH NEW STAIR OR ESCALATOR;
N. FLOOR OR GROUND SURFACES SHALL BE FREE OF OPENINGS WHENEVER POSSIBLE. OPENINGS SHALL NOT ALLOW PASSAGE OF A SPHERE MORE THAN 1/2" DIAMETER EXCEPT AS ALLOWED IN SECTIONS 11B-407.4.3, 11B-409.4.3, 11B-410.4, 11B-810.5.3, AND 11B-810.10. ELONGATED OPENINGS SHALL BE PLACED SO THAT THE LONG DIMENSION IS PERPENDICULAR TO THE DOMINANT DIRECTION OF TRAVEL. (CBC 11B-302.3)
O. ACCESSIBLE ROUTES SHALL CONSIST OF ONE OR MORE OF THE FOLLOWING COMPONENTS: WALKING SURFACES WITH RUNNING SLOPE NOT STEEPER THAN 1:20 DOORWAYS, RAMPS, CURB RAMPS EXCLUDING THE FLARED SIDES, ELEVATORS AND PLATFORM LIFTS. ALL COMPONENTS OF AN ACCESSIBLE ROUTE WITH THE APPLICABLE REQUIREMENTS OF DIVISION 4, CBC. 11-B-402.2
P. THE CLEAR WIDTH FOR SIDEWALKS AND WALKS SHALL BE 48 INCHES MINIMUM. CBC 403.5.1
Q. TOP OF GRIPPING SURFACES OF HANDRAILS SHALL BE 34 INCHES MINIMUM AND 38 INCHES MAXIMUM VERTICALLY ABOVE WALKING SURFACES, STAIR NOSINGS, AND RAMP SURFACES. HANDRAILS SHALL BE AT A CONSISTENT HEIGHT ABOVE WALKING SURFACES, STAIR NOSINGS, AND RAMP SURFACES.

GENERAL ACCESSIBILITY NOTES (CONTINUED)

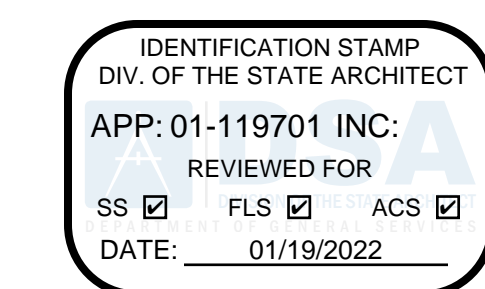
- 4. ACCESSIBLE EGRESS:
A. PROVIDE ACCESSIBLE EGRESS IN PORTIONS OF BUILDING REQUIRED TO BE ACCESSIBLE IN COMPLIANCE WITH CBC 1007 AND CBC 11B AS APPLICABLE.
B. FIRE ALARM SYSTEMS SHALL HAVE PERMANENTLY INSTALLED AUDIBLE AND VISIBLE ALARMS COMPLYING WITH NFPA 72 AND CFC 907.5.2.1 AND 907.5.2.3
5. ACCESSIBLE DOORS:
A. AUTOMATIC AND POWER ASSISTED DOORS SHALL COMPLY WITH CBC 11B-404.3;
B. THERE SHALL BE A FLOOR OR LANDING ON EACH SIDE OF A DOOR. SUCH FLOOR OR LANDING SHALL BE AT THE SAME ELEVATION ON EACH SIDE OF THE DOOR. LANDINGS SHALL BE LEVEL EXCEPT FOR EXTERIOR LANDINGS, WHICH ARE PERMITTED TO HAVE A SLOPE NOT TO EXCEED 2 PERCENT SLOPE. (CBC 1010.1.5);
C. THE FORCE FOR PUSHING, PULLING, OR DELATCHING INTERIOR SWINGING EGRESS DOORS, SHALL NOT EXCEED 5 POUNDS. (CBC 11B-309.4 AND 11B-404.2.9);
D. SWINGING DOOR AND GATE SURFACES WITHIN 10 INCHES OF THE FINISH FLOOR OR GROUND MEASURED VERTICALLY SHALL HAVE A SMOOTH SURFACE ON THE PUSH SIDE EXTENDING THE FULL WIDTH OF THE DOOR OR GATE. (CBC 11B-404.2.10);
E. PROVIDE MANEUVERING CLEARANCE AT DOORS TO COMPLY WITH CBC 11B-404.2.4
6. HAZARDS:
A. OBJECTS WITH LEADING EDGES MORE THAN 27 INCHES AND NOT MORE THAN 80 INCHES ABOVE THE FINISH FLOOR OR GROUND SHALL PROTRUDE 4 INCHES MAXIMUM HORIZONTALLY INTO THE CIRCULATION PATH. (CBC 11B-307.2);
B. PROVIDE DETECTABLE WARNINGS AS REQUIRED BY CBC 11B-247.1.2. DETECTABLE WARNINGS SHALL COMPLY WITH CBC 11B-705.1.
7. BATHING AND TOILET FACILITIES:
A. ACCESSIBLE TOILET FACILITIES ON AN ACCESSIBLE PATH OF TRAVEL TO COMPLY WITH CBC 11B-601;
B. WHERE TOILET COMPARTMENTS ARE PROVIDED, AT LEAST ONE TOILET COMPARTMENT SHALL COMPLY WITH SECTION 11B-604.8.1. (CBC 11B-213.3.1);
C. PROVIDE AT LEAST ONE AMBULATORY TOILET COMPARTMENT IN EACH MULTIPLE ACCOMMODATION TOILET ROOM WHEN THE TOILET AND URINAL FIXTURE COUNT TOGETHER TOTALS 6 OR MORE FIXTURES. WHERE URINALS ARE PROVIDED, AT LEAST 10 PERCENT, BUT NO FEWER THAN ONE, SHALL COMPLY WITH ACCESSIBLE REQUIREMENTS OF CBC 11B-605. (CBC 11B-213.3.3);
D. ACCESSIBLE LAVATORIES SHALL COMPLY WITH CBC 11B-606;
E. WHERE DRINKING FOUNTAINS ARE PROVIDED ON AN EXTERIOR SITE, ON A FLOOR, OR WITHIN A SECURED AREA THEY SHALL BE PROVIDED IN ACCORDANCE TO CBC 11B-211. NO FEWER THAN TWO DRINKING FOUNTAINS SHALL BE PROVIDED. ONE DRINKING FOUNTAIN SHALL COMPLY WITH SECTIONS 11B-602.1 THROUGH 602.6 AND ONE DRINKING FOUNTAIN SHALL COMPLY WITH SECTION 11B-602.7 (CBC 11B-211.2), UNLESS A SINGLE DRINKING FOUNTAIN COMPLIES WITH SECTIONS 11B-602.1 THROUGH AAB-602.6 AND 11B-602.7 (11B-211.2 EXCEPTION)
1. WHERE MORE THAN THE MINIMUM NUMBER OF DRINKING FOUNTAINS SPECIFIED IN SECTION 11B-211.2 ARE PROVIDED, 50 PERCENT OF THE TOTAL NUMBER OF DRINKING FOUNTAINS SHALL COMPLY WITH SECTIONS 11B-602.1 THROUGH 602.6, AND 50% OF THE TOTAL NUMBER OF DRINKING FOUNTAINS PROVIDED SHALL COMPLY WITH SECTION 11B-602.7 (11B-213.3);
F. WHERE 50% OF THE DRINKING FOUNTAINS YIELDS A FRACTION, 50% SHALL BE PERMITTED TO BE ROUNDED UP OR DOWN PROVIDED THAT THE TOTAL NUMBER OF DRINKING FOUNTAINS COMPLYING WITH SECTION 11B-211 EQUALS 100 PERCENT OF DRINKING FOUNTAINS. (CBC 11B-211.3 EXCEPTION 1)
8. KNEE AND TOE CLEARANCE:
A. FOR ELEMENTS REQUIRED TO PROVIDE TOE CLEARANCE OTHER THAN LAVATORIES AND BUILT-IN DINING AND WORK SURFACES, TOE CLEARANCE SHALL BE PROVIDED THAT IS 30 INCHES IN WIDTH AND 9 INCHES IN HEIGHT ABOVE THE FINISH FLOOR OR GROUND FOR A DEPTH OF 17 INCHES MINIMUM UNDER ELEMENTS REQUIRED TO BE ACCESSIBLE. (CBC 11B-306.2.3)
9. CONTROLS AND MECHANISMS:
A. OPERABLE PARTS ON ACCESSIBLE ELEMENTS, ACCESSIBLE ROUTES, AND IN ACCESSIBLE ROOMS AND SPACES SHALL COMPLY WITH CBC 11B-309. (CBC 11B-205);
B. PROVIDE CLEAR FLOOR OR GROUND SPACE COMPLYING WITH CBC 11B-305 (CBC 11B-309.2);
C. PLACE OPERABLE PARTS WITHIN ONE OR MORE OF THE REACH RANGES COMPLYING WITH CBC 11B-308 (CBC 11B-309.3);
D. INSTALL ELECTRICAL SWITCHES AND RECEPTACLES WITH IN ALLOWABLE REACH RANGES. LOW REACH SHALL BE MEASURED TO THE BOTTOM OF THE OUTLET BOX AND HIGH REACH SHALL BE MEASURED TO THE TOP OF THE OUTLET BOX IN COMPLIANCE WITH CBC 11B-308.1.1 AND 11B-308.1.2
E. HIGH FORWARD REACH THAT IS UNOBSTRUCTED SHALL BE 48 INCHES MAXIMUM AND THE LOW FORWARD REACH SHALL BE 15 INCHES MINIMUM ABOVE FINISH FLOOR OR GROUND. CBC 11B-308.2.1, FIGURE 11B-308.2.1
F. REACH RANGES:
1. OBSTRUCTED FORWARD REACH RANGE SHALL BE AS PER FIGURE 11B-308.2.2
2. SIDE REACH SHALL BE LIMITED AS SHOWN IN FIGURE 11B-308.3.1 FOR UNOBSTRUCTED SIDE REACH, OR PER FIGURE 11B-308.3.2 FOR OBSTRUCTED SIDE REACH
G. OPERABLE PARTS SHALL BE OPERABLE WITH ONE HAND AND SHALL NOT REQUIRE TIGHT GRASPING, PINCHING, OR TWISTING OF THE WRIST. FORCE REQUIRED TO ACTIVATE OPERABLE PARTS SHALL BE 5 POUNDS MAXIMUM. CBC 11B-308.4
1. EXCEPTION: THESE FORCES DO NOT APPLY TO THE FORCE REQUIRED TO RETRACT LATCH BOLTS OR DISengage OTHER DEVICES THAT HOLD THE DOOR OR GATE IN A CLOSED POSITION (11B-404.2.9)

GENERAL ACCESSIBILITY NOTES (CONTINUED)

- 10. SIGNS AND IDENTIFICATION:
A. NEW OR ALTERED SIGNS AND IDENTIFICATION DEVICES SHALL COMPLY WITH CBC 11B-703;
B. CHARACTERS AND THEIR BACKGROUND SHALL HAVE A NON-GLARE FINISH. (CBC 11B-703.5.1) CHARACTERS SHALL CONTRAST WITH THEIR BACKGROUNDS. (CBC 11B-703.5.1);
C. CONFORM WITH CHARACTER SIZES AND TYPES IN CBC 11B-703.5.2, 11B-703.5.3, 11B-705-5.4, AND 11B-705.5.5
11. EXIT SIGNS AND MEANS OF EGRESS ILLUMINATION:
A. WHERE REQUIRED, EXITS AND EXIT ACCESS DOORS SHALL BE MARKED BY AN APPROVED EXIT SIGN READILY VISIBLE FROM ANY DIRECTION OF EGRESS TRAVEL. THE PATH OF EGRESS TRAVEL TO EXITS AND WITHIN EXITS SHALL BE MARKED BY READILY VISIBLE EXIT SIGNS TO CLEARLY INDICATE THE DIRECTION OF EGRESS TRAVEL IN CASES WHERE THE EXIT OR THE PATH OF EGRESS TRAVEL IS NOT IMMEDIATELY VISIBLE TO THE OCCUPANTS. INTERVENING MEANS OF EGRESS DOORS WITHIN EXITS SHALL BE MARKED BY EXIT SIGNS. EXIT SIGN PLACEMENT SHALL BE SUCH THAT NO POINT IN AN EXIT ACCESS CORRIDOR OR EXIT PASSAGEWAY IS MORE THAN 100 FEET (30.480M) OR THE LISTED VIEWING DISTANCE FOR THE SIGN, WHICHEVER IS LESS, FROM THE NEAREST VISIBLE SIGN. CBC 1013.
B. EXIT SIGN SHALL BE INTERNALLY ILLUMINATED OR EXTERNALLY ILLUMINATED.
A. INTERNALLY ILLUMINATED EXIT SIGNS SHALL BE LISTED AND LABELED IN ACCORDANCE WITH UL 924 AND SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS AND CHAPTER 270.
B. EXTERNALLY ILLUMINATED EXIT SIGNS SHALL COMPLY WITH THE GRAPHICS AND POWER SUPPLY REQUIREMENTS IN SECTION 1013.6.1 AND 1013.6.3 RESPECTIVELY. WHEN THE FACE OF AN EXIT SIGN IS ILLUMINATED FROM AN EXTERNAL SOURCE, IT SHALL HAVE AN INTENSITY OF NOT LESS THAN 5-FOOT-CANDELES (54 LUX). CBC 1013.3.
C. WHERE ILLUMINATED EXIT SIGNS ARE PROVIDED, TACTILE EXIT SIGNAGE ADJACENT TO EXIT DOORS WITH RAISED CHARACTER AND BRAILLE SHALL BE PROVIDED PER CBC 1013.4 AND 11B-2019.4.1
D. POWER SOURCE, EXIT SIGNS SHALL BE ILLUMINATED AT ALL TIMES. TO ENSURE CONTINUED ILLUMINATION FOR A DURATION OF NOT LESS THAN 90 MINUTES IN CASE OF PRIMARY POWER LOSS, THE SIGN ILLUMINATION MEANS SHALL BE CONNECTED TO A SOURCE OF EMERGENCY POWER, INCLUDING EMERGENCY CIRCUITS AND BUILT-IN BATTERY PACKS. THE INSTALLATION OF THE EMERGENCY POWER SYSTEM SHALL BE IN ACCORDANCE WITH CHAPTER 27.
1. IN ACCORDANCE PER CBC 1013.6.3
a. CORRIDOR, INTERIOR EXIT STAIRWAYS, RAMPS AND EXIT PASSAGeways IN A BUILDING REQUIRED TO HAVE TWO OR MORE EXITS.
b. INTERIOR EXIT DISCHARGE ELEMENTS, AS PERMITTED IN SECTION 1028.1, IN BUILDINGS REQUIRED TO HAVE TWO OR MORE EXITS.
c. EXTERIOR LANDINGS, AS REQUIRED BY SECTION 1010.1.6 FOR EXIT DISCHARGE DOORWAYS IN BUILDINGS REQUIRE TO HAVE TWO OR MORE EXITS.
E. ILLUMINATION LEVEL UNDER EMERGENCY POWER. EMERGENCY LIGHTING FACILITIES SHALL BE ARRANGED TO PROVIDE INITIAL ILLUMINATION THAT IS AT LEAST AN AVERAGE OF 1 FOOTCANDLE (11 LUX) AND A MINIMUM AT ANY POINT OF 0.1 FOOTCANDLE (1.1 LUX) MEASURED ALONG THE PATH OF EGRESS AT FLOOR LEVEL. ILLUMINATION LEVELS SHALL BE PERMITTED TO DECLINE TO 0.6 FOOTCANDLE (6 LUX) AT THE END OF THE EMERGENCY LIGHTING TIME DURATION. A MAXIMUM-TO-MINIMUM ILLUMINATION UNIFORMITY RATIO OF 40 TO 1 SHALL NOT BE EXCEEDED.
12. MECHANICAL ACCESS: ACCESS TO MECHANICAL APPLIANCES IN UNDER-FLOOR AREAS, IN ATTIC SPACES, AND ON ROOFS OR ELEVATED STRUCTURES SHALL BE IN ACCORDANCE WITH THE MECHANICAL CODE.
13. MEDICAL CARE AND LONG-TERM CARE FACILITIES
A. PROFESSIONAL OFFICES OF HEALTH CARE PROVIDERS SHALL COMPLY WITH 11B-805 MEDICAL CARE AND LONGTERM CARE FACILITIES.
B. WHERE SEATING IS PROVIDED IN WAITING ROOMS, AT LEAST 5 PERCENT OF THE SEATING SHALL BE WHEELCHAIR SPACES COMPLYING WITH 11B-802.1 WHEELCHAIR SPACES OR 10 PERCENT IN WAITING ROOMS SERVING FACILITIES SPECIALIZING IN TREATING CONDITIONS THAT AFFECT MOBILITY.
C. AREAS WHERE PATIENTS CHANGE OR ARE PREPARED FOR A PROCEDURE SHALL COMPLY WITH THE REQUIREMENTS OF 11B-222 DRESSING, FITTING, AND LOCKER ROOMS.
D. ALL HAND WASHING FIXTURES, LAVATORIES AND SINKS SHALL COMPLY WITH 11B-606 LAVATORIES AND SINKS.
E. BUILT-IN CABINETS, COUNTERS AND WORK SURFACES SHALL BE ACCESSIBLE, INCLUDING: PATIENT WARDROBES, NURSE'S STATIONS, ADMINISTRATIVE CENTERS, RECEPTION DESKS, MEDICINE PREPARATION AREAS, LABORATORY WORK STATIONS, EQUIPMENT CONSOLES, CLEAN AND SOILED UTILITY CABINETS, AND STORAGE AREAS; AND SHALL COMPLY WITH 11B-225 STORAGE AND 11B-902 DINING SURFACES AND WORK SURFACES.
14. DIMENSIONS FOR ACCESSIBILITY REQUIREMENTS SHOWN WITH A MINIMUM AND/OR MAXIMUM DIMENSION ARE NOT SUBJECT TO CONVENTIONAL INDUSTRY BUILDING TOLERANCES.

GENERAL CONSTRUCTION NOTES

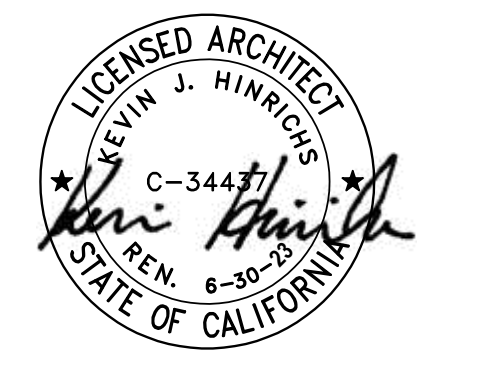
- 1. SCOPE OF DOCUMENTS: THESE DRAWINGS INDICATE THE GENERAL SCOPE OF THE PROJECT IN TERMS OF ARCHITECTURAL DESIGN CONCEPT, THE FACILITIES, THE BUILDINGS, THE EXCAVATIONS, ARCHITECTURAL ELEMENTS AND THE TYPE OF STRUCTURAL, MECHANICAL AND ELECTRICAL SYSTEMS. ON THE BASIS OF THE GENERAL SCOPE INDICATED OR DESCRIBED, FURNISH ALL ITEMS REQUIRED FOR THE EXECUTION AND COMPLETION OF THE WORK.
2. THE CONTRACTOR SHALL KEEP AN UP TO DATE SET OF CONTRACT DOCUMENT PERMIT SET INCLUDING APPROVED CHANGE ORDERS AT THE JOB SITE IN A LOCATION CONVENIENT FOR REFERENCE.
3. THE CONTRACTOR SHALL COORDINATE ALL NECESSARY UTILITY RELOCATIONS WITH THE APPROPRIATE UTILITY COMPANIES.
4. ALL CONSTRUCTION AND MATERIALS SHALL BE SPECIFIED AS REQUIRED BY THE CALIFORNIA BUILDING CODE, LOCAL GOVERNING CODES AND AUTHORITIES.
5. VERIFY ALL DIMENSIONS AND SITE CONDITIONS BEFORE STARTING WORK. SHOULD A DISCREPANCY APPEAR IN THE SPECIFICATIONS OR DRAWINGS, OR IN THE WORK DONE BY OTHERS FROM THE CONTRACT DOCUMENTS THAT AFFECT ANY WORK, NOTIFY THE ARCHITECT AT ONCE FOR INSTRUCTION ON HOW TO PROCEED. IF THE CONTRACT DOCUMENTS, THE JOB SITE IS TO BE MAINTAINED WITHOUT INSTRUCTIONS FROM THE ARCHITECT, THE CONTRACTOR SHALL MAKE GOOD ANY RESULTING DAMAGE OR DEFECT.
6. CONFINE ALL OPERATIONS ON THE SITE TO AREAS PERMITTED BY THE OWNER. THE WORK SHALL BE DONE IN ACCORDANCE WITH ALL APPLICABLE LAWS, LOCAL ORDINANCES, PERMITS AND THE CONTRACT DOCUMENTS. THE JOB SITE IS TO BE MAINTAINED IN A CLEAN, ORDERLY CONDITION FREE OF DEBRIS AND LITTER AND SHALL NOT BE UNREASONABLE ENCUMBERED WITH ANY MATERIAL OR EQUIPMENT. EACH SUBCONTRACTOR UPON COMPLETION OF EACH PHASE OF HIS WORK SHALL IMMEDIATELY REMOVE ALL TRASH AND DEBRIS AS A RESULT OF HIS OPERATION.
7. ALL MATERIAL STORED ON THE SITE SHALL BE STACKED AND PROTECTED TO PREVENT DAMAGE AND DETERIORATION UNTIL USE. FAILURE TO PROTECT MATERIALS MAY BE CAUSE FOR REJECTION OF WORK.
8. ALL CUTTING, FITTING OR PATCHING THAT MAY BE REQUIRED TO MAKE SEVERAL PARTS FIT TOGETHER PROPERLY SHALL BE DONE SO AS NOT TO ENDANGER ANY OTHER WORK OR EXCAVATING OR OTHERWISE ALTERING THE TOTAL WORK OR ANY PART OF IT. ALL PATCHING, REPAIRING AND REPLACING OF MATERIALS AND SURFACES, CUT OR DAMAGED IN EXECUTION OF WORK SHALL BE DONE WITH APPLICABLE MATERIAL SO THAT SURFACES REPLACED WILL, UPON COMPLETION, MATCH SURROUNDING SIMILAR SURFACES.
9. NO PORTION OF THE WORK REQUIRING SHOP DRAWINGS OR A SAMPLE SUBMISSION SHALL BE COMMENCED UNTIL THE SUBMISSION HAS BEEN REVIEWED BY THE ARCHITECT. ALL SUCH PORTIONS OF THE WORK SHALL BE IN ACCORDANCE WITH THE REVIEWED SHOP DRAWINGS AND SAMPLES.
10. DIMENSIONS:
A. DIMENSIONS HAVE PRIORITY OVER SCALE
B. ALL DIMENSIONS ARE TO FACE OF STUD UNLESS NOTED OTHERWISE.
C. CEILING HEIGHT DIMENSIONS ARE FROM FINISH FLOOR SLAB TO FINISH FACE OF CEILING UNLESS NOTED OTHERWISE.
D. ACCESSIBILITY DIMENSIONS ARE FROM FACE OF FINISH (FOF) TO FACE OF FINISH (FOF) OR MINIMUM CLEARANCE DIMENSIONS AS NOTED ON THE DRAWINGS.
11. PROVIDE NECESSARY BACKING AND FRAMING FOR CASEWORK, GRAB BARS, FIRE EXTINGUISHER CABINETS, TOILET ACCESSORIES, LIGHT FIXTURES, ELECTRICAL UNITS AND ALL OTHER REQUIRED ITEMS.
12. WHERE LARGER STUDS OR FURRING ARE REQUIRED TO COVER DUCTS, PIPING AND CONDUITS, ETC., THE LARGER STUD SIZE OR FURRING SHALL EXTEND THE FULL SURFACE OF THE WALL WIDTH AND LENGTH WHERE THE FURRING OCCURS, UNLESS NOTED OTHERWISE.
13. EXIT SIGNS: PROVIDE ALL ILLUMINATED AND NON-ILLUMINATED EXIT SIGNS AS INDICATED ON THE DRAWINGS AND AS REQUIRED BY THE LOCAL GOVERNING AUTHORITIES AND THE CALIFORNIA BUILDING CODE 1011.
14. PROVIDE ACCESS PANELS TO ALL CONCEALED SPACES (I.E. ATTICS, VOID SPACES, ETC.) AS REQUIRED BY THE CALIFORNIA BUILDING CODE AND LOCAL GOVERNING AUTHORITIES.
15. PROVIDE FIRE RESISTIVE ELEMENTS THROUGHOUT THE ENTIRE BUILDING PER THE CALIFORNIA BUILDING CODE, TABLE 601.
16. ALL ELECTRICAL PANELS, LIGHTS, FIRE EXTINGUISHER CABINETS, TOILET ACCESSORIES, ETC., LOCATED IN RATED PARTITIONS OR CEILINGS SHALL BE BACKED WITH GYPSUM BOARD AS REQUIRED TO MAINTAIN RATING.
17. COMPLY WITH THE DISABLED ACCESSIBILITY REQUIREMENTS OF THE CALIFORNIA BUILDING CODE CHAPTER 11 AND THE AMERICANS WITH DISABILITIES ACT (ADA).
18. THE CONTRACTORS AND SUB-CONTRACTORS PERFORMING WORK ON THIS PROJECT SHALL BE RESPONSIBLE FOR INITIATING MAINTAINING AND SUPERVISING A REASONABLE AND PRUDENT SAFETY PROGRAM INCLUDING, BUT NOT LIMITED TO, THE ISOLATION OF WORK AREAS AND THE PROMPT REMOVAL OF ANY DEBRIS OR TOOLS WHICH MIGHT ENDANGER VISITORS, OR PERSONNEL. ALL ROADS AND WALKWAYS SHALL REMAIN CLEAR AND UNOBSTRUCTED. WHEN NECESSARY, ALTERNATE ROUTES OR TRAFFIC CONTROL MUST BE MAINTAINED, SHOULD UNSAFE CONDITIONS OCCUR.
19. ANY TIME A BUILDING OR A PORTION OF A BUILDING IS OCCUPIED, THE MEANS OF EGRESS SERVING THE OCCUPIED PORTION SHALL BE ILLUMINATED AT AN INTENSITY OF NOT LESS THAN 1-FOOT-CANDLE (11 LUX) AT THE WALKING SURFACE LEVEL. CBC 1006



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AGENCY APPROVAL

Table with 3 columns: NO., REVISION NAME, DATE. Header: REVISION SCHEDULE

PROJECT INFORMATION: PCCD BCC ENTRY DOOR REPLACEMENT

FACILITY NAME: BERKELEY CITY COLLEGE
FACILITY ADDRESS: 2050 CENTER ST, BERKELEY, CA 94704
UNIVERSITY PROJECT NUMBER:
AUTHORITY HAVING JURISDICTION: DSA
ARCHITECT PROJECT NO.: 6271.100

SHEET TITLE: DATE: 10/21/2021

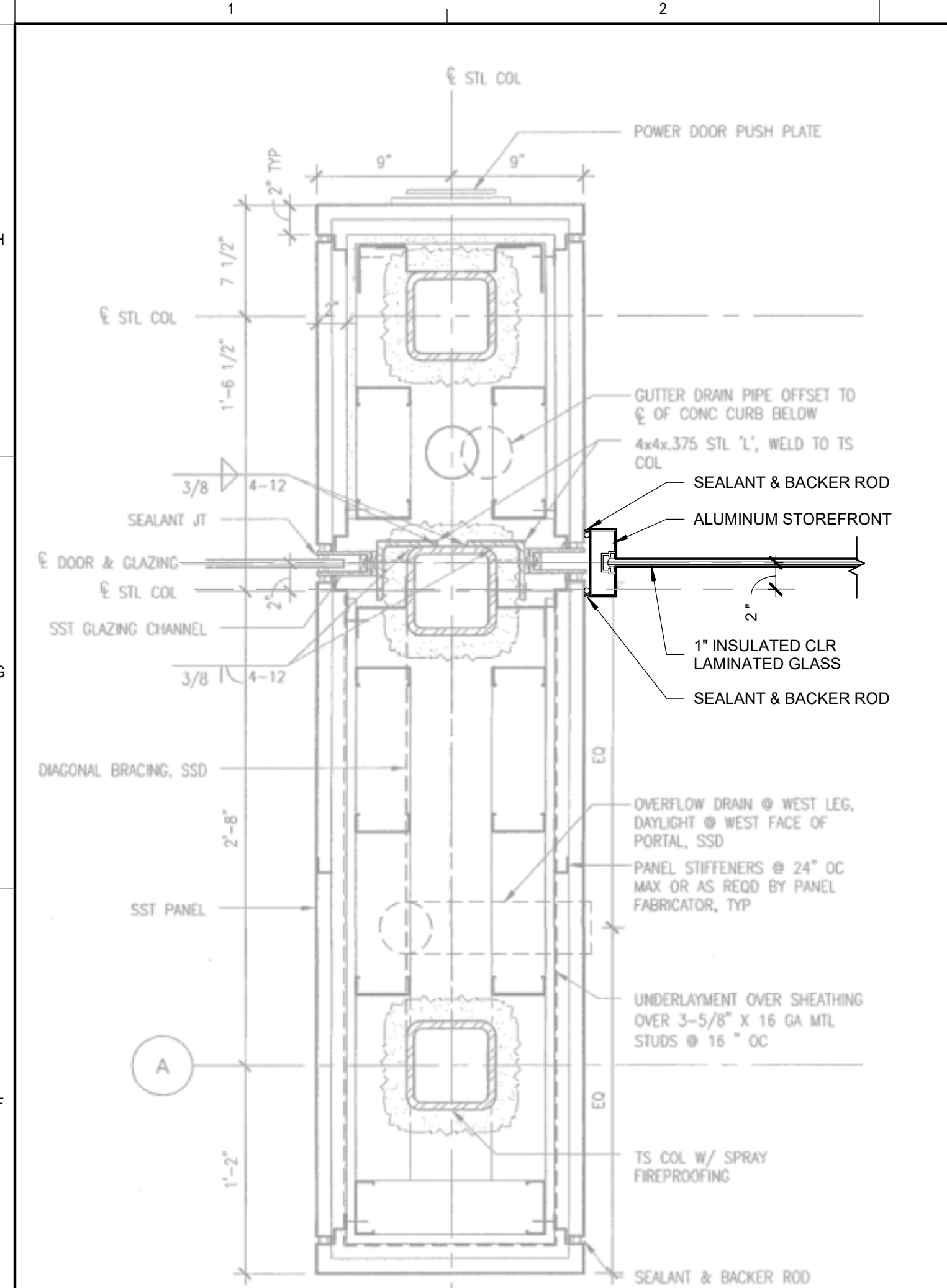
GENERAL NOTES

SHEET NUMBER: SCALE: 1" = 1'-0"

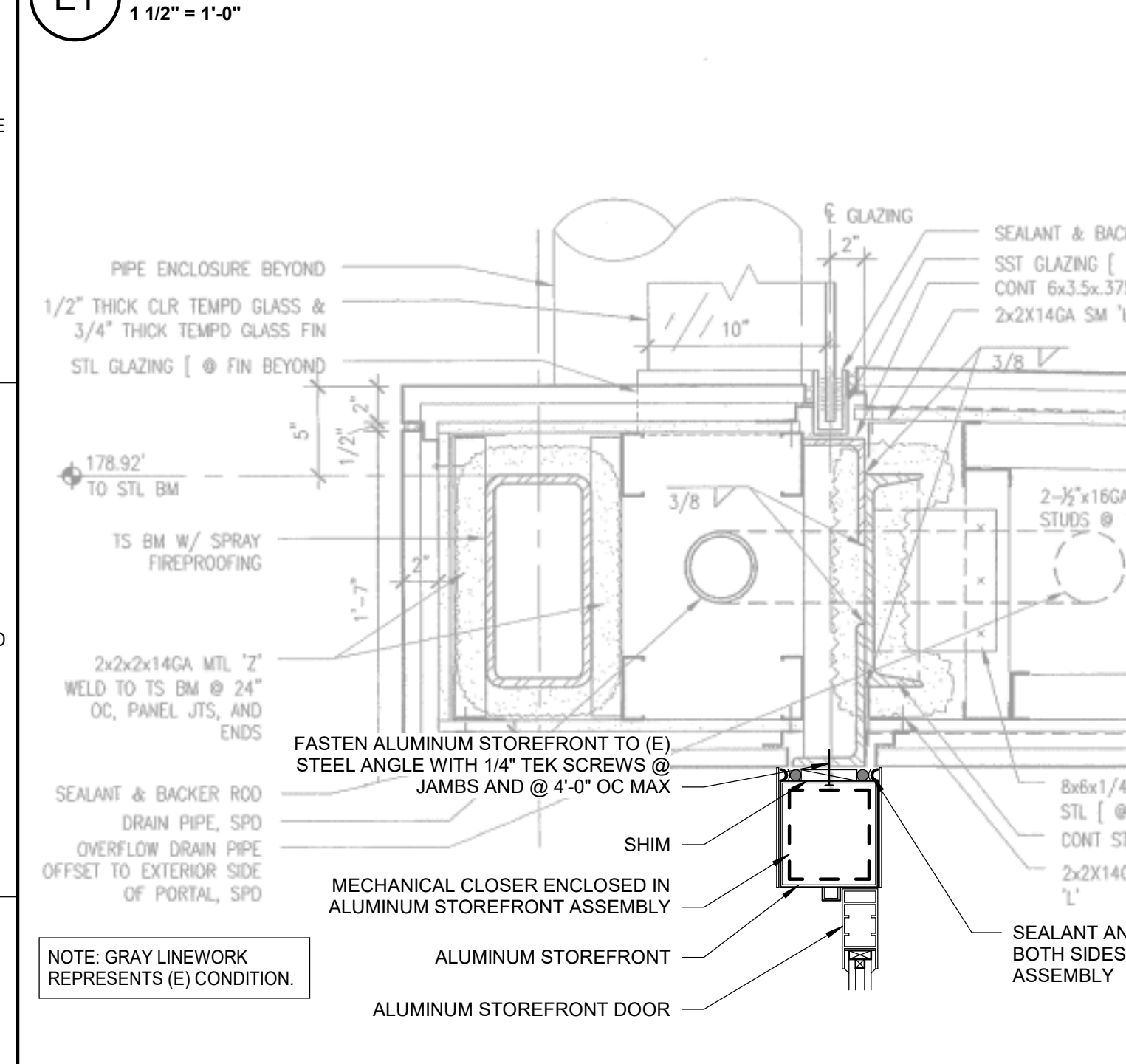
G-003

Vertical text on the left margin: 11/24/2021 6:47:45 AM, G-003, GENERAL NOTES

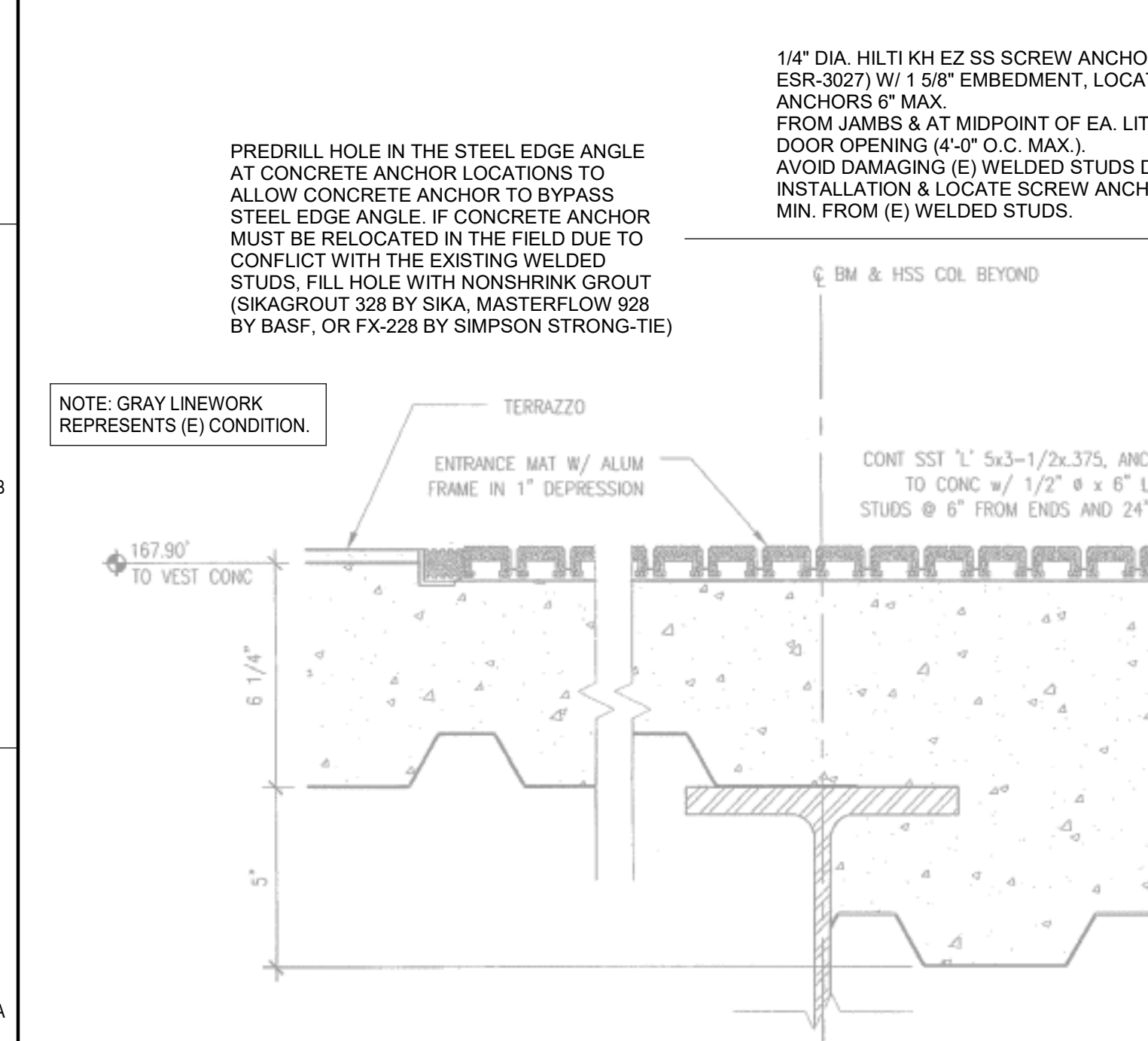
11/24/2021 6:47:37 AM
 A-121, LEVEL 1 - FLOOR PLANS, ELEVATIONS, AND DETAILS
 11/24/2021 6:47:37 AM



E1 PLAN @ ENTRY PORTAL
1/12" = 1'-0"



C1 SECTION @ ENTRY PORTAL
1/12" = 1'-0"



A1 THRESHOLD @ ENTRY DOOR
3" = 1'-0"

FINISH LIST

CODE	SPECIFICATION	DESCRIPTION
GL-1	08800	1" INSULATED CLEAR LAMINATED SAFETY GLASS. FIELD MATCH FOR COLOR.

DOOR SCHEDULE

MARK	SIZE			MATL	FIN	ELV	GLZ	NOTES
	W	HT	GLZ					
100-1	5'-10"	9'-3"	ALM	LS	A	GL-1		SMOKE EVAC. 105 DEGREE OPENING
100-2	5'-10"	9'-3"	ALM	LS	A	GL-1		SMOKE EVAC. 105 DEGREE OPENING

DOOR ABBREVIATIONS

ALM	ALUMINUM
CLR	CLEAR
LAM	LAMINATED
LS	LIGHT SATIN ALUMINUM FINISH
GL-1	LAMINATED SAFETY GLASS

DOOR ELEVATION

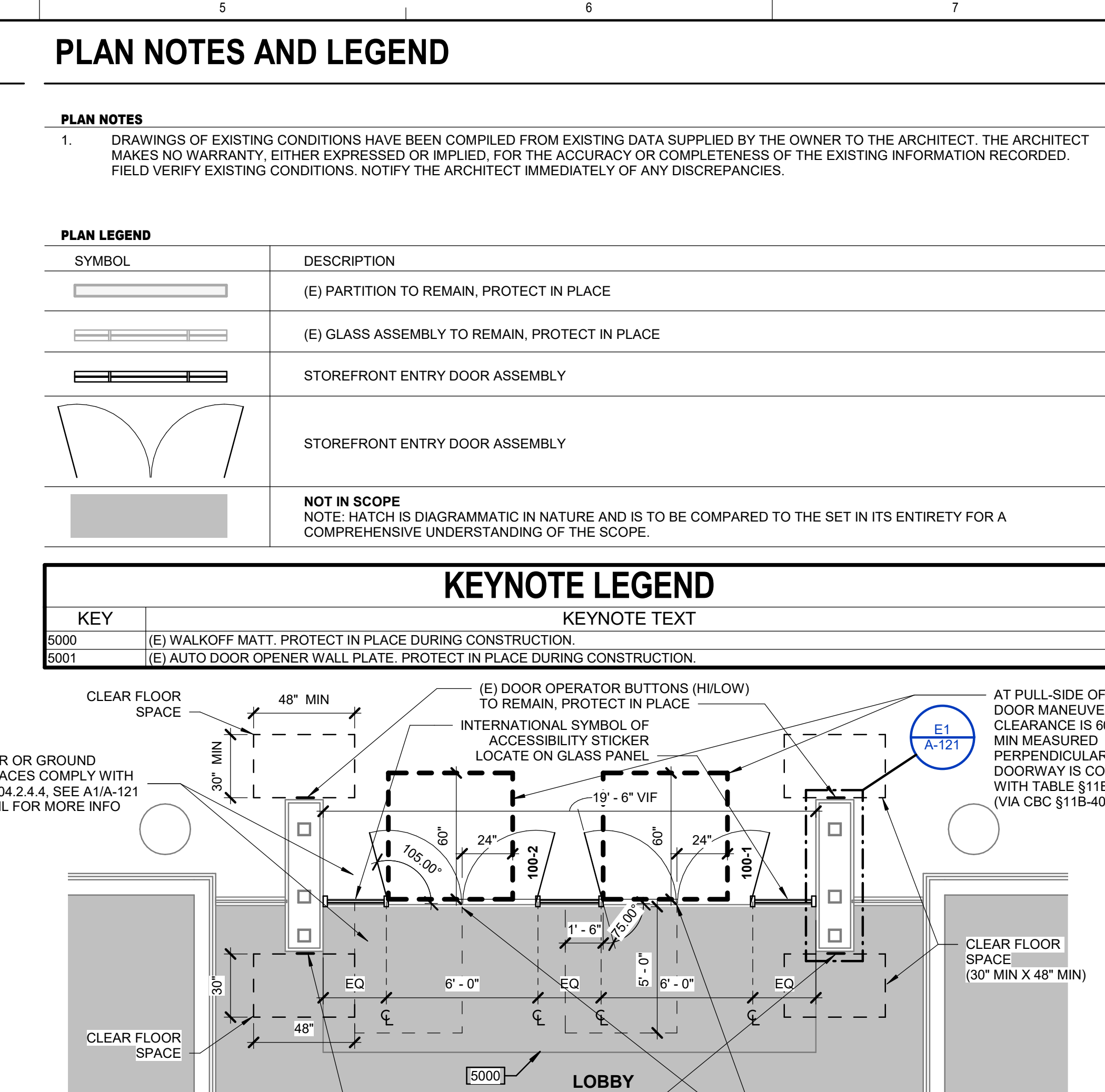
APPLICABLE SPECIFICATIONS

MANUFACTURER:	ASSA ABLDY SW2001 OHC
08 43 13	ALUMINUM-FRAMED STOREFRONT
08 71 00	DOOR HARDWARE
08 80 00	GLAZING

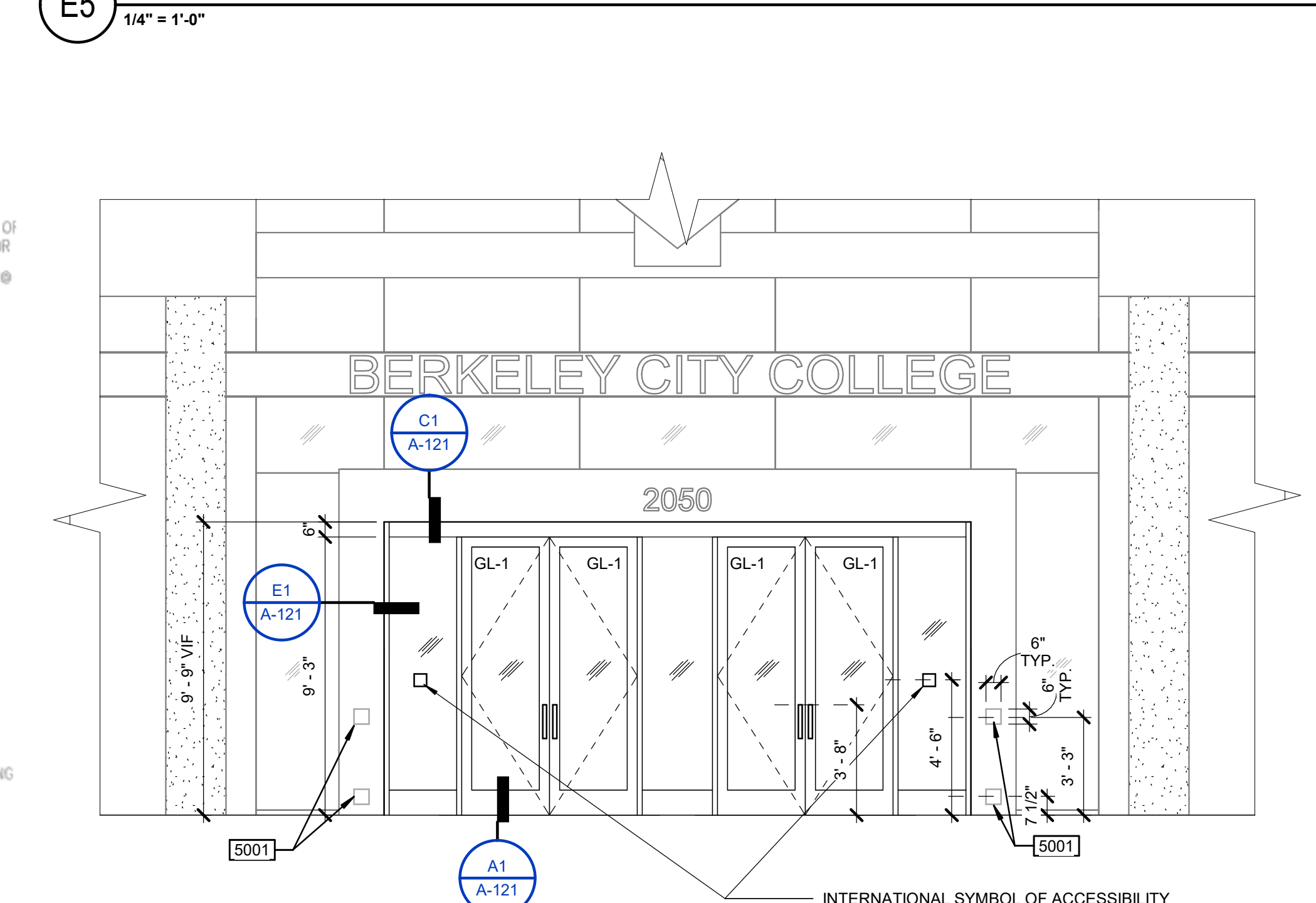
ISA COMPLIES WITH FIGURE 118-703.7.2.1. THE SYMBOL SHALL CONSIST OF A WHITE FIGURE ON A BLUE BACKGROUND. THE COLOR BLUE SHALL APPROXIMATE FS 15980 IN FEDERAL STANDARD 595C. A BORDER MAY BE PROVIDED INSIDE OR OUTSIDE OF THE MINIMUM REQUIRED INTERNATIONAL SYMBOL OF ACCESSIBILITY DIMENSION.



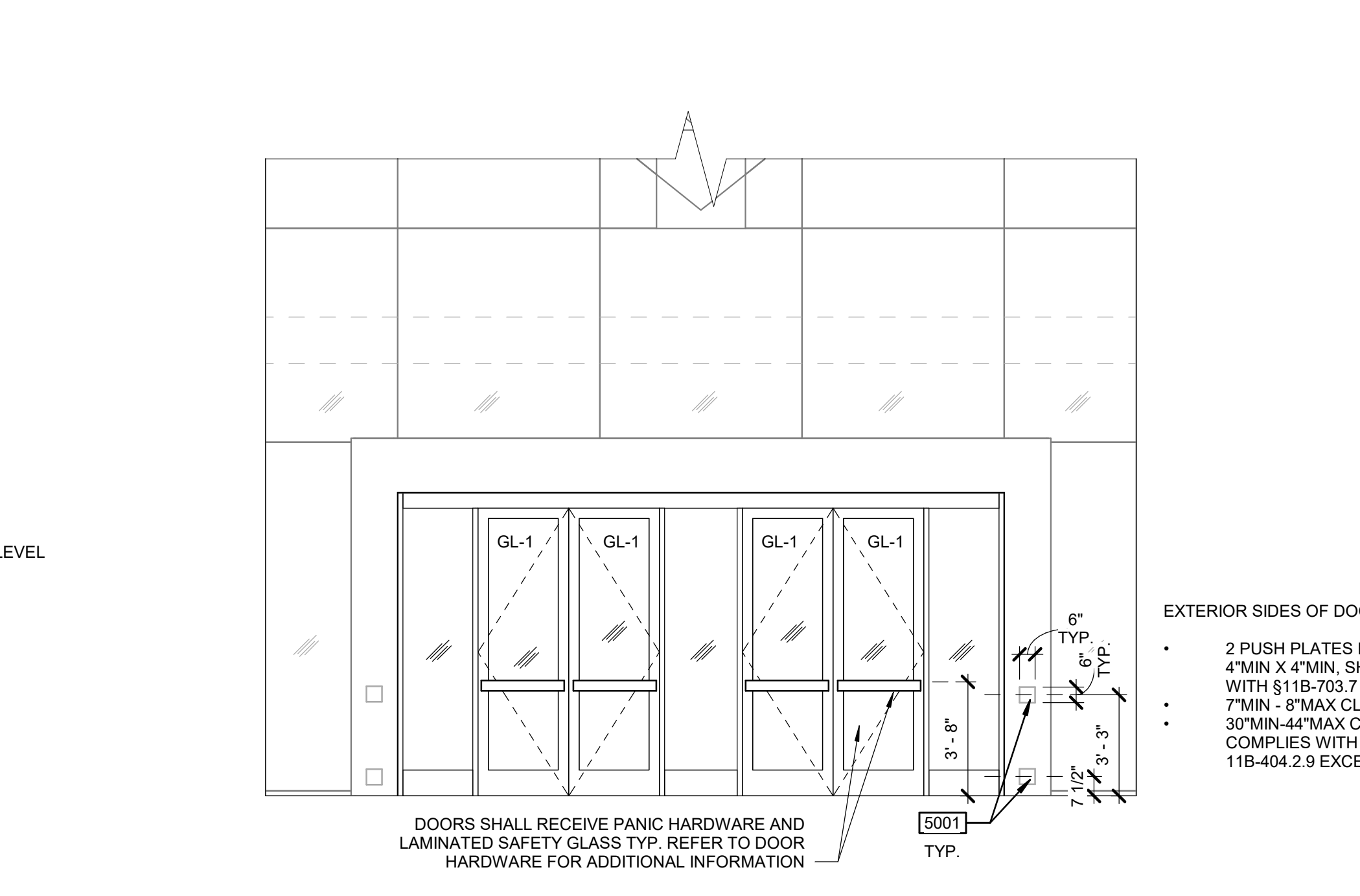
PICTURE OF EXISTING ISA SIGNAGE



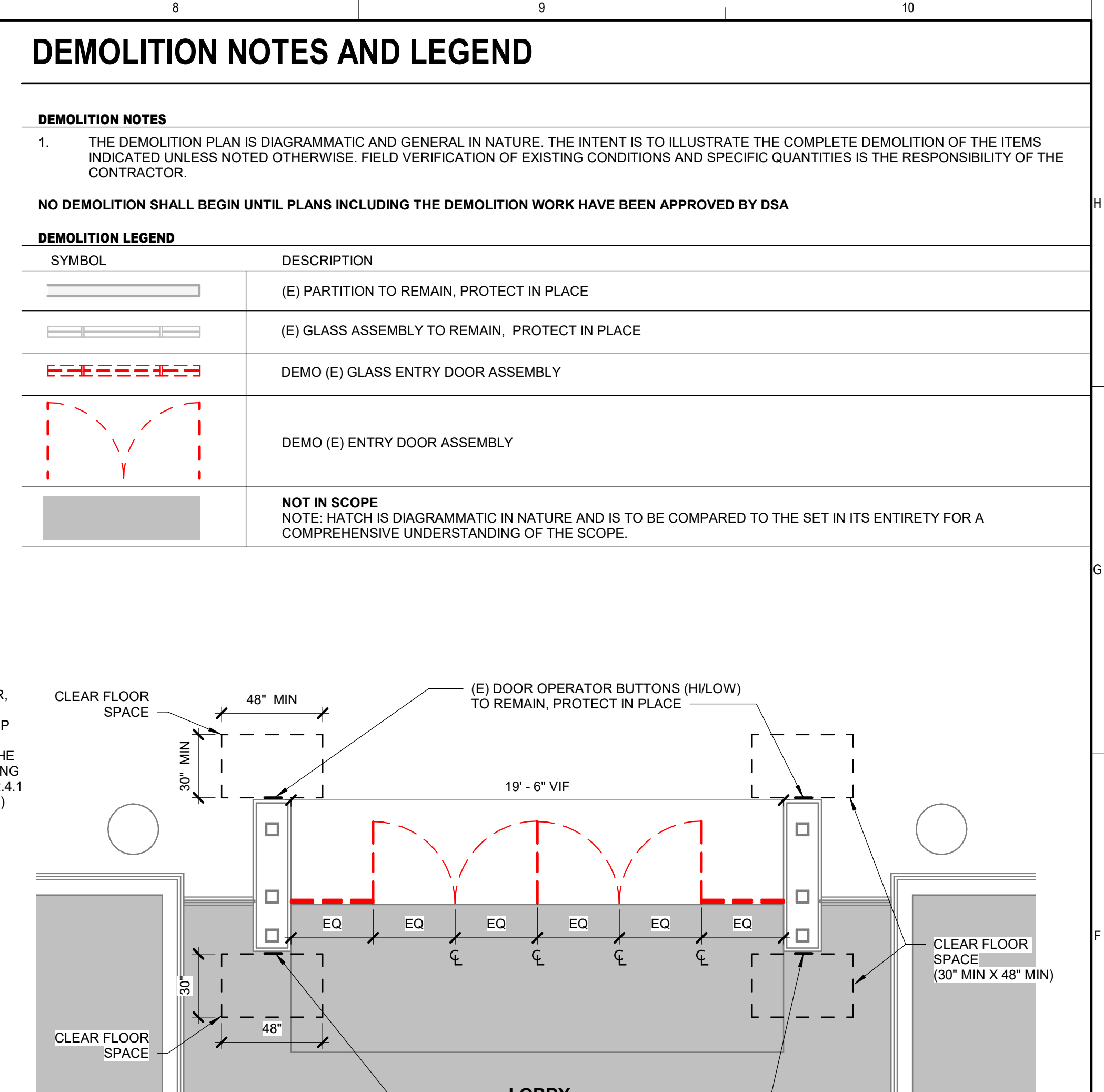
E5 LEVEL 1 - PROPOSED FLOOR PLAN
1/4" = 1'-0"



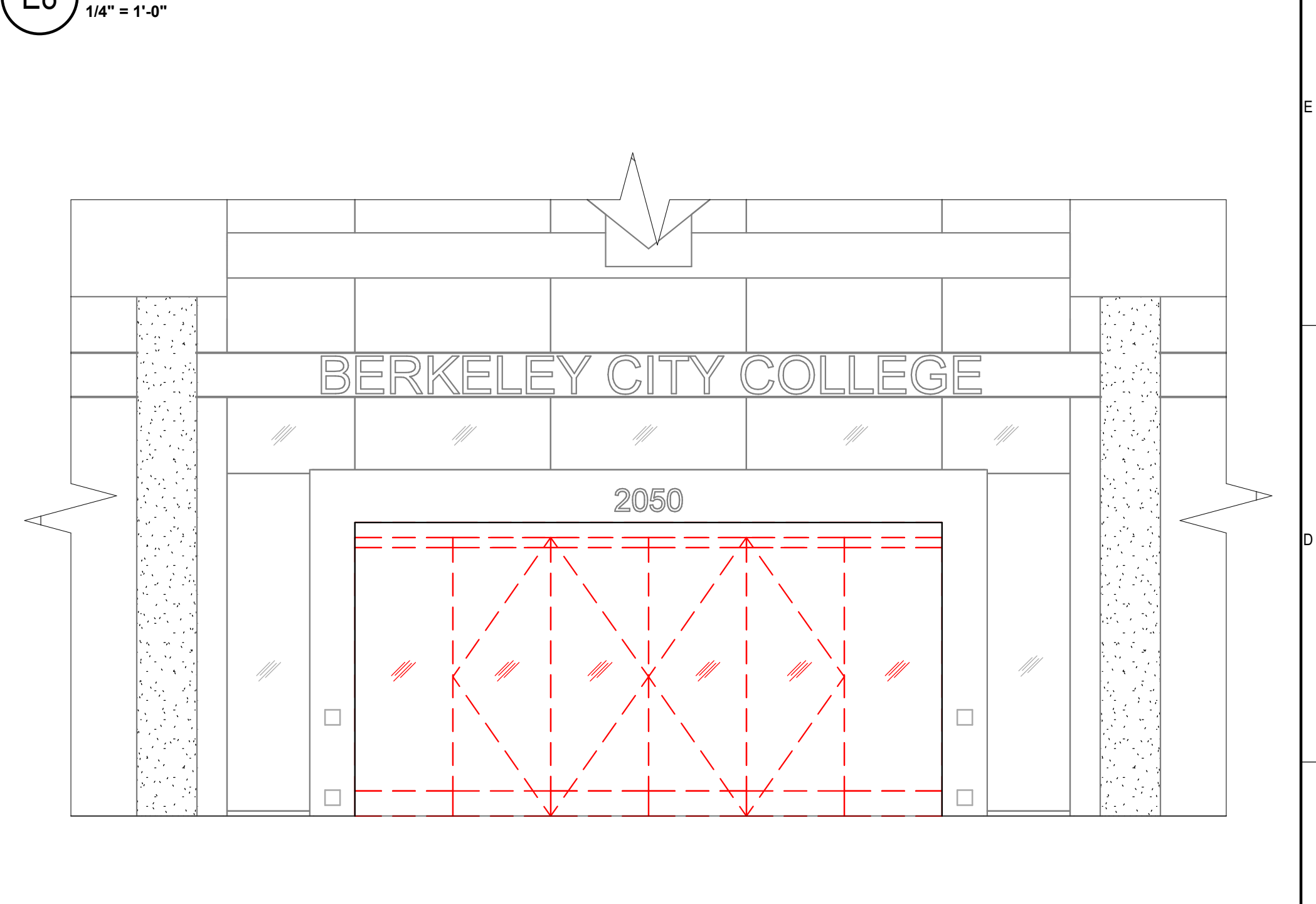
C5 ENTRY DOOR - EXTERIOR ELEVATION
1/4" = 1'-0"



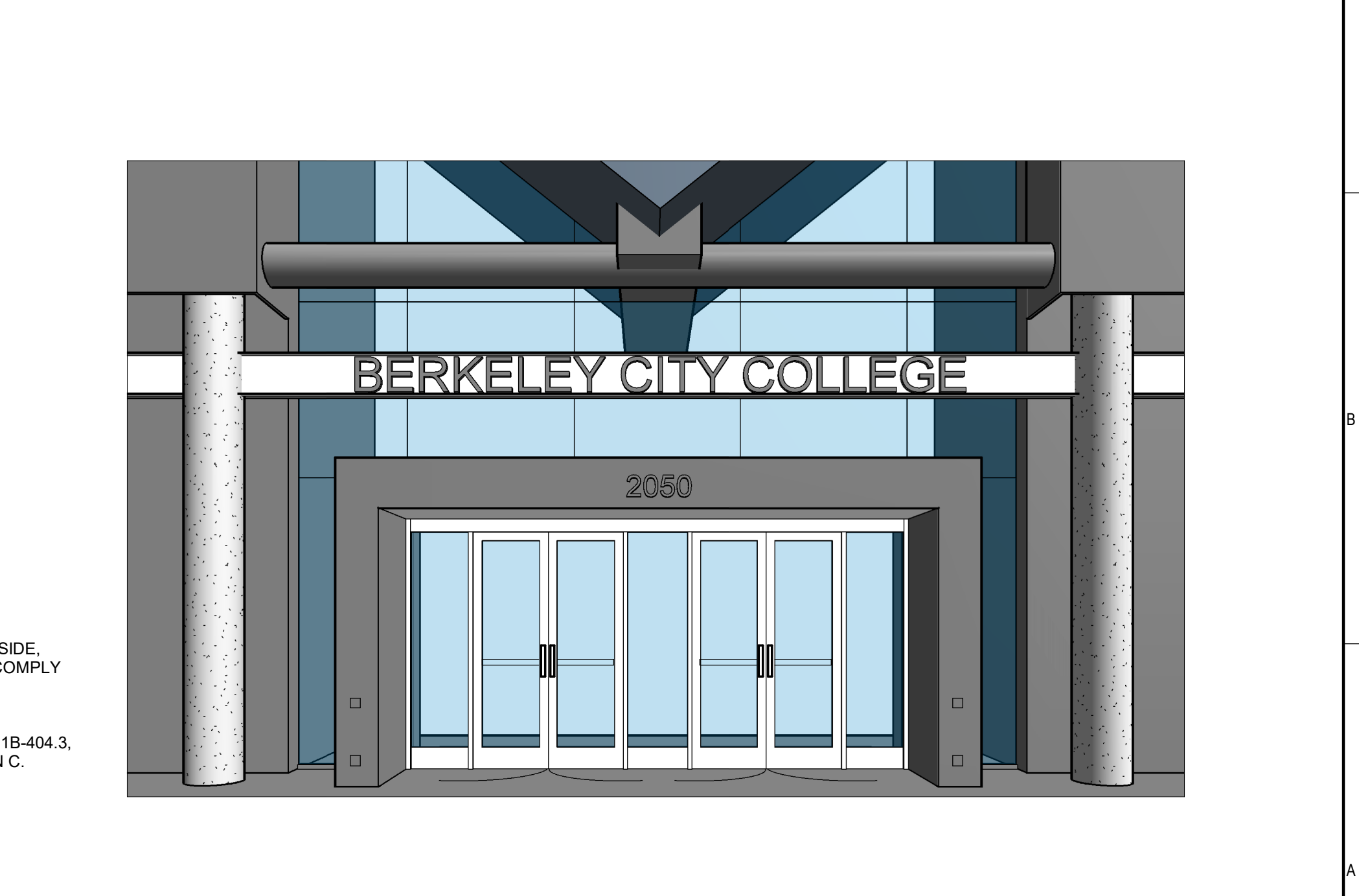
A5 ENTRY DOOR - INTERIOR ELEVATION
1/4" = 1'-0"



E8 LEVEL 1 - DEMO FLOOR PLAN
1/4" = 1'-0"



C8 ENTRY DOOR - DEMO EXTERIOR ELEVATION
1/4" = 1'-0"



A8 ENTRY DOOR - EXTERIOR PERSPECTIVE

EXTERIOR SIDES OF DOORS:
 • 2 PUSH PLATES EACH SIDE.
 • 4" MIN X 4" MIN. SHALL COMPLY WITH 118-703.7
 • 7" MIN - 8" MAX CL AFF
 • 30" MIN - 44" MAX CL AFF
 • COMPLIES WITH CBC 11B-404.3, 11B-404.2.9 EXCEPTION C.

IDENTIFICATION STAMP
 DIV. OF THE STATE ARCHITECT
 APP: 01-119701 INC.
 REVIEWED FOR
 SS FLS ACS
 DATE: 01/19/2022

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AGENCY APPROVAL

REVISION SCHEDULE

NO.	REVISION NAME	DATE
1	DSA SUBMITTAL - BC#2	11/19/2021

PROJECT INFORMATION
PCCD
BCC ENTRY DOOR REPLACEMENT

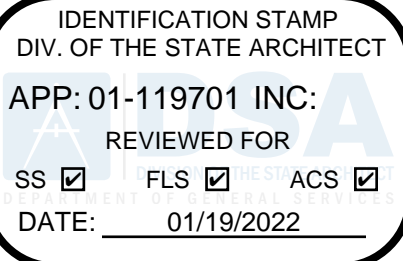
FACILITY NAME: BERKELEY CITY COLLEGE
 FACILITY ADDRESS: 2050 CENTER ST, BERKELEY, CA 94704
 UNIVERSITY PROJECT NUMBER:
 AUTHORITY HAVING JURISDICTION: DSA
 ARCHITECT PROJECT NO.: 6271.100

SHEET TITLE: LEVEL 1 - FLOOR PLANS, ELEVATIONS, AND DETAILS

SHEET NUMBER: A-121

SCALE: As indicated

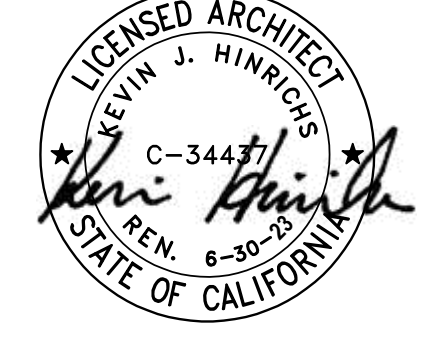
DATE: 10/21/2021



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SECTION 08 43 13 ALUMINUM-FRAMED STOREFRONTS

PART 1 GENERAL
1.01 SECTION INCLUDES
A. Aluminum-framed storefront, with vision glass.
1.02 RELATED REQUIREMENTS
A. Section 08 71 00 - Door Hardware: Hardware items other than specified in this section.
1.03 REFERENCE STANDARDS
A. AAMA CW-10 - Care and Handling of Architectural Aluminum From Shop to Site; 2015.
1.04 ADMINISTRATIVE REQUIREMENTS
A. Coordinate with installation of other components that comprise the exterior enclosure.

1.06 QUALITY ASSURANCE
A. Manufacturer Qualifications: Company specializing in performing work of type specified and with at least three years of documented experience.
1.07 DELIVERY, STORAGE, AND HANDLING
A. Handle products of this section in accordance with AAMA CW-10.
1.08 FIELD CONDITIONS
A. Do not install sealants when ambient temperature is less than 40 degrees F.
1.09 WARRANTY
A. Provide five year manufacturer warranty against failure of glass seal on insulating glass units.
PART 2 PRODUCTS
2.01 MANUFACTURERS
A. Basis of Design: Kawneer North America; www.kawneer.com.
2.02 BASIS OF DESIGN -- FRAMING FOR INSULATING GLAZING
A. Center-Set Style, Thermally-Broken:
1. Basis of Design: Kawneer North America; Series 451T, 2 by 4-1/2 inch Storefront Center-Set Style, Thermally Broken: www.kawneer.com.

2.04 STOREFRONT
A. Aluminum-Framed Storefront: Factory fabricated, factory finished aluminum framing members with infill, and related flashings, anchorage and attachment devices.
1. Utilized, shop assembly.
2. Glazing Rabbet: For 1 inch insulating glazing.
3. Finish: Class I color anodized.
B. Performance Requirements:
1. Wind Loads: Design and size components to withstand the specified load requirements without damage or permanent set.
2. Water Penetration Resistance on Manufactured Assembly: No uncontrolled water on interior face, when tested in accordance with ASTM E331 at pressure differential of 8 psf.

9. System Internal Drainage: Drain to the exterior by means of a weep drainage network any water entering joints, condensation occurring in glazing channel, and migrating moisture occurring within system.
10. Expansion/Contraction: Provide for expansion and contraction within system components caused by cycling temperature range of 170 degrees F over a 12 hour period without causing detrimental effect to system components, anchorages, and other building elements.
2.05 COMPONENTS
A. Aluminum Framing Members: Tubular aluminum sections, thermally broken with interior section insulated from exterior, drainage holes and internal weep drainage system.
2.06 MATERIALS
A. Extruded Aluminum: ASTM B221 (ASTM B221M).
B. Fasteners: Stainless steel.
C. Exposed Flashings: Aluminum sheet, 20 gage, 0.032 inch minimum thickness; finish to match framing members.
2.07 FINISHES
A. Class I Light Satin Anodized Finish: AAMA 611 AA-M12C22A41 Clear anodic coating not less than 0.0001 inch thick.

ALUMINUM-FRAMED STOREFRONTS 08 43 13 - 01

ALUMINUM-FRAMED STOREFRONTS 08 43 13 - 02

ALUMINUM-FRAMED STOREFRONTS 08 43 13 - 03

ALUMINUM-FRAMED STOREFRONTS 08 43 13 - 04

B. Verify that wall openings and adjoining air and vapor seal materials are ready to receive work of this section.
3.02 INSTALLATION
A. Install wall system in accordance with manufacturer's instructions.
B. Attach to structure to permit sufficient adjustment to accommodate construction tolerances and other irregularities.
3.03 TOLERANCES
A. Maximum Variation from Plumb: 0.06 inch per 3 feet non-cumulative or 0.06 inch per 10 feet, whichever is less.
3.04 FIELD QUALITY CONTROL
A. Provide services of storefront manufacturer's field representative to observe for proper installation of system and submit report.
3.05 ADJUSTING
A. Adjust operating hardware for smooth operation.
3.06 CLEANING
A. Remove protective material from pre-finished aluminum surfaces.
3.07 PROTECTION
A. Protect installed products from damage until Date of Substantial Completion.

ALUMINUM-FRAMED STOREFRONTS 08 43 13 - 05

AGENCY APPROVAL

REVISION SCHEDULE
NO. REVISION NAME DATE

PROJECT INFORMATION
PCCD
BCC ENTRY DOOR REPLACEMENT
FACILITY NAME: BERKELEY CITY COLLEGE
FACILITY ADDRESS: 2650 CENTER ST, BERKELEY, CA 94704

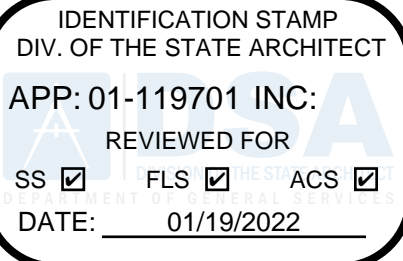
SHEET TITLE DATE: 10/21/2021

STOREFRONT SPECIFICATIONS

SHEET NUMBER SCALE: 1/2" = 1'-0"

A-601

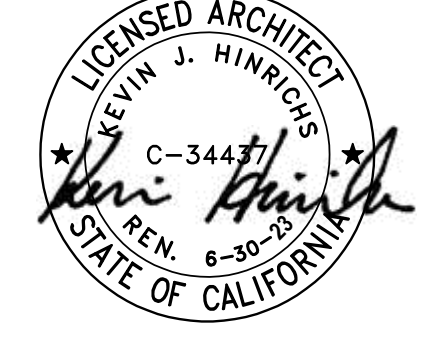
11/24/2021 6:47:39 AM A-601_STOREFRONT SPECIFICATIONS



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BERKELEY CITY COLLEGE ENTRY DOOR REPLACEMENT BERKELEY, CA 5271.00
SECTION 087100 - DOOR HARDWARE
PART 1 - GENERAL
1.1 RELATED DOCUMENTS
A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 1 Specification Sections, apply to this Section.
1.2 SUMMARY
A. This Section includes commercial door hardware for the following:
1. Swinging doors.
2. Other doors to the extent indicated.
B. Door hardware includes, but is not necessarily limited to, the following:
1. Mechanical door hardware.
2. Automatic operators.
3. Cylinders specified for doors in other sections.
C. Related Sections:
1. Division 08 Section "Aluminum-Framed Entrances and Storefronts".
2. Division 08 Section "Automatic Door Operators".
D. Codes and References: Comply with the version year adopted by the Authority Having Jurisdiction.
1. ANSI A117.1 - Accessible and Usable Buildings and Facilities.
2. ICC/IBC - International Building Code.
3. NFPA 70 - National Electrical Code.
4. NFPA 80 - Fire Doors and Windows.
5. NFPA 101 - Life Safety Code.
6. NFPA 105 - Installation of Smoke Door Assemblies.
7. UL/ULC and CSA C22.2 - Standards for Automatic Door Operators Used on Fire and Smoke Barrier Doors and Systems of Doors.
8. State Building Codes, Local Amendments.
E. Standards: All hardware specified herein shall comply with the following industry standards:
1. ANSIBHMA Certified Product Standards - A156 Series
2. UL10C - Positive Pressure Fire Tests of Door Assemblies

DOOR HARDWARE 087100 - 1

BERKELEY CITY COLLEGE ENTRY DOOR REPLACEMENT BERKELEY, CA 5271.00
1.3 SUBMITTALS
A. Product Data: Manufacturer's product data sheets including installation details, material descriptions, dimensions of individual components and profiles, operational descriptions and finishes.
B. Door Hardware Schedule: Prepared by or under the supervision of supplier, detailing fabrication and assembly of door hardware, as well as procedures and diagrams. Coordinate the final Door Hardware Schedule with doors, frames, and related work to ensure proper size, thickness, hand, function, and finish of door hardware.
1. Format: Comply with scheduling sequence and vertical format in DHI's "Sequence and Format for the Hardware Schedule."
2. Organization: Organize the Door Hardware Schedule into door hardware sets indicating complete designations of every item required for each door or opening. Organize door hardware sets in same order as in the Door Hardware Sets at the end of Part 3. Submittals that do not follow the same format and order as the Door Hardware Sets will be rejected and subject to resubmission.
3. Content: Include the following information:
a. Type, style, function, size, label, hand, and finish of each door hardware item.
b. Manufacturer of each item.
c. Fastenings and other pertinent information.
d. Location of door hardware set, cross-referenced to Drawings, both on floor plans and in door and frame schedule.
e. Explanation of abbreviations, symbols, and codes contained in schedule.
f. Mounting locations for door hardware.
g. Door and frame sizes and materials.
h. Warranty information for each product.
4. Submittal Sequence: Submit the final Door Hardware Schedule at earliest possible date, particularly where approval of the Door Hardware Schedule must precede fabrication of other work that is critical in the Project construction schedule. Include Product Data, Samples, Shop Drawings of other work affected by door hardware, and other information essential to the coordinated review of the Door Hardware Schedule.
C. Keying Schedule: After a keying meeting with the owner has taken place prepare a separate keying schedule detailing final instructions. Submit the keying schedule in electronic format. Include keying system explanation, door numbers, key set symbols, hardware set numbers and special instructions. Owner must approve submitted keying schedule prior to the ordering of permanent cylinders/cores.
D. Proof of Compliance: (California located Projects): Provide a list of product(s) containing chemicals known to cause cancer or reproductive toxicity as defined by the Office of Environmental Health Hazard Assessment (OEHHA) under Proposition 65 (CA Code of Regulations, Title 27, Section 27001). The list includes the specific chemical(s), if the chemical will be exposed to consumers, the means of warning, and an illustration of the label.

DOOR HARDWARE 087100 - 2

BERKELEY CITY COLLEGE ENTRY DOOR REPLACEMENT BERKELEY, CA 5271.00
E. Informational Submittals:
1. Product Test Reports: Indicating compliance with cycle testing requirements, based on evaluation of comprehensive tests performed by manufacturer and witnessed by a qualified independent testing agency.
F. Operating and Maintenance Manuals: Provide manufacturers operating and maintenance manuals for each item comprising the complete door hardware installation in quantity as required in Division 01, Closeout Procedures.
1.4 QUALITY ASSURANCE
A. Manufacturers Qualifications: Engage qualified manufacturers with a minimum 5 years of documented experience in producing hardware and equipment similar to that indicated for this Project and that have a proven record of successful in-service performance.
B. Installer Qualifications: A minimum 3 years documented experience installing both standard and electrified door hardware similar in material, design, and extent to that indicated for this Project and whose work has resulted in construction with a record of successful in-service performance.
C. Door Hardware Supplier Qualifications: Experienced commercial door hardware distributors with a minimum 5 years documented experience supplying both mechanical and electromechanical hardware installations comparable in material, design, and extent to that indicated for this Project. Supplier recognized as a factory direct distributor by the manufacturers of the primary materials with a warehousing facility in Project's vicinity. Supplier to have on staff a certified Architectural Hardware Consultant (AHC) available during the course of the Work to consult with Contractor, Architect, and Owner concerning both standard and electromechanical door hardware and keying.
D. Source Limitations: Obtain each type and variety of door hardware specified in this section from a single source unless otherwise indicated.
1. Electrified modifications or enhancements made to a source manufacturer's product line by a secondary or third party source will not be accepted.
E. California Building Code: Provide hardware that complies with CBC Section 11B.
1. All openings as a part of an accessible route shall comply with CBC Section 11B-404.
2. The clear opening width for a door shall be 32" minimum. For a swinging door it shall be measured between the face of the door and the stop, with the door open 90 degrees. There shall be no projections into it below 34" and 4" maximum projections into it between 34" and 80" above the finish floor or ground. Door closers and stops shall be permitted to be 78" minimum above the finish floor or ground. CBC Section 11B-404.2.3.
3. Operable hardware on accessible doors shall comply with CBC Section 11B-309.4 and shall be operable with one hand and shall not require tight grasping, pinching, or twisting of the wrist. Operable parts of such hardware shall be 34" minimum and 44" maximum

DOOR HARDWARE 087100 - 3

BERKELEY CITY COLLEGE ENTRY DOOR REPLACEMENT BERKELEY, CA 5271.00
above finish floor or ground. Where sliding doors are in the fully open position, operating hardware shall be exposed and usable from both sides.
4. Hardware (including panic hardware) shall not be provided with "nightlatch" function for any accessible doors or gates unless the following conditions are met:
a. Such hardware has a "dogging" feature and is dogged during the time the facility is open.
b. All "dogging" operation is performed only by employees as their job function (non-public use).
5. The force for pushing or pulling open a door shall be in accordance with CBC Section 11B-404.2.9.
a. Interior hinged doors, sliding or folding doors, and exterior hinged doors: 5 pounds (22.2 N) maximum. Required fire doors: the minimum opening force allowable by the DSA authority, not to exceed 15 pounds (66.7N). These forces do not apply to the force required to retract latch bolts or disengage other devices that hold the door in a closed position.
b. The force required for activating any operable parts, such as lever hardware, or disengaging other devices shall be 5 pounds (22.2N) maximum to comply with CBC Section 11B-309.4.
6. Door closing speed shall comply with CBC Section 11B-404.2.8. Closers shall be adjusted so that the required time to move a door from an open position of 90 degrees to a position of 12 degrees from the latch is 5 seconds minimum. Spring hinges shall be adjusted so that the required time to move a door from an open position of 70 degrees to the closed position is 1.5 seconds minimum.
7. Floor stops shall not be located in the path of travel and 4" maximum from walls.
8. Thresholds shall comply with CBC Section 11B-404.2.5.
F. Each unit to bear third party permanent label demonstrating compliance with the referenced standards.
G. Keying Conference: Conduct conference to comply with requirements in Division 01 Section "Project Meetings." Keying conference to incorporate the following criteria into the final keying schedule document:
1. Function of building, purpose of each area and degree of security required.
2. Plans for existing and future key system expansion.
3. Requirements for key control storage and software.
4. Installation of permanent keys, cylinder cores and software.
5. Address and requirements for delivery of keys.
H. Pre-Submittal Conference: Conduct coordination conference in compliance with requirements in Division 01 Section "Project Meetings" with attendance by representatives of Supplier(s), Installer(s), and Contractor(s) to review proper methods and the procedures for receiving, handling, and installing door hardware.

DOOR HARDWARE 087100 - 4

BERKELEY CITY COLLEGE ENTRY DOOR REPLACEMENT BERKELEY, CA 5271.00
1. Prior to installation of door hardware, conduct a project specific training meeting to instruct the installing contractors' personnel on the proper installation and adjustment of their respective products. Product training to be attended by installers of door hardware (including electromechanical hardware) for aluminum, hollow metal and wood doors. Training will include the use of installation manuals, hardware schedules, templates and physical product samples as required.
2. Inspect and discuss electrical roughing-in, power supply connections, and other preparatory work performed by other trades.
3. Review sequence of operation narratives for each unique access controlled opening.
4. Review and finalize construction schedule and verify availability of materials.
5. Review the required inspecting, testing, commissioning, and demonstration procedures
I. At completion of installation, provide written documentation that components were applied to manufacturer's instructions and recommendations and according to approved schedule.
1.5 DELIVERY, STORAGE, AND HANDLING
A. Inventory door hardware on receipt and provide secure lock-up and shelving for door hardware delivered to Project site. Do not store electronic access control hardware, software or accessories at Project site without prior authorization.
B. Tag each item or package separately with identification related to the final Door Hardware Schedule, and include basic installation instructions with each item or package.
C. Deliver, as applicable, permanent keys, cylinders, cores, access control credentials, software and related accessories directly to Owner via registered mail or overnight package service. Instructions for delivery to the Owner shall be established at the "Keying Conference".
1.6 COORDINATION
A. Templates: Obtain and distribute to the parties involved templates for doors, frames, and other work specified to be factory prepared for installing standard and electrified hardware. Check Shop Drawings of other work to confirm that adequate provisions are made for locating and installing hardware to comply with indicated requirements.
B. Door and Frame Preparation: Doors and corresponding frames are to be prepared, reinforced and pre-wired (if applicable) to receive the installation of the specified electrified, monitoring, signaling and access control system hardware without additional in-field modifications.
1.7 WARRANTY
A. General Warranty: Reference Division 01, General Requirements. Special warranties specified in this Article shall not deprive Owner of other rights Owner may have under other provisions of the Contract Documents and shall be in addition to, and run concurrent with, other warranties made by Contractor under requirements of the Contract Documents.

DOOR HARDWARE 087100 - 5

BERKELEY CITY COLLEGE ENTRY DOOR REPLACEMENT BERKELEY, CA 5271.00
B. Warranty Period: Written warranty, executed by manufacturer(s), agreeing to repair or replace components of standard and electrified door hardware that fails in materials or workmanship within specified warranty period after final acceptance by the Owner. Failures include, but are not limited to, the following:
1. Structural failures including excessive deflection, cracking, or breakage.
2. Faulty operation of the hardware.
3. Deterioration of metals, metal finishes, and other materials beyond normal weathering.
4. Electrical component defects and failures within the systems operation.
C. Standard Warranty Period: One year from date of Substantial Completion, unless otherwise indicated.
D. Special Warranty Periods:
1.8 MAINTENANCE SERVICE
A. Maintenance Tools and Instructions: Furnish a complete set of specialized tools and maintenance instructions as needed for Owner's continued adjustment, maintenance, and removal and replacement of door hardware.
PART 2 - PRODUCTS
2.1 SCHEDULED DOOR HARDWARE
A. General: Provide door hardware for each door to comply with requirements in Door Hardware Sets and each referenced section that products are to be supplied under.
B. Designations: Requirements for quantity, item, size, finish or color, grade, function, and other distinctive qualities of each type of door hardware are indicated in the Door Hardware Sets at the end of Part 3. Products are identified by using door hardware designations, as follows:
1. Named Manufacturer's Products: Product designation and manufacturer are listed for each door hardware type required for the purpose of establishing requirements. Manufacturers' names are abbreviated in the Door Hardware Schedule.
C. Substitutions: Requests for substitution and product approval for inclusive mechanical and electromechanical door hardware in compliance with the specifications must be submitted in writing and in accordance with the procedures and time frames outlined in Division 01, Substitution Procedures. Approval of requests is at the discretion of the architect, owner, and their designated consultants.

DOOR HARDWARE 087100 - 6

BERKELEY CITY COLLEGE ENTRY DOOR REPLACEMENT BERKELEY, CA 5271.00
2.2 HANGING DEVICES
A. Pivots: ANSIBHMA A156.4, Grade 1, certified. Space intermediate pivots equally not less than 25 inches on center apart or not more than 35 inches on center for doors over 121 inches high. Pivots to be UL listed for windstorm where applicable.
1. Manufacturers:
a. Ives (IV).
b. Rixson Door Controls (RF).
2.3 CYLINDERS AND KEYING
A. General: Cylinder manufacturer to have minimum (10) years experience designing secured master key systems and have on record a published security keying system policy.
B. Source Limitations: Obtain each type of keyed cylinder and keys from the same source manufacturer as locksets and exit devices, unless otherwise indicated.
C. Cylinders: Original manufacturer cylinders complying with the following:
1. Mortise Type: Threaded cylinders with rings and cams to suit hardware application.
2. Rim Type: Cylinders with back plate, flat-type vertical or horizontal tailpiece, and raised trim ring.
3. Bored-Lock Type: Cylinders with tailpieces to suit locks.
4. Mortise and rim cylinder collars to be solid and recessed to allow the cylinder face to be flush and be free spinning with matching finishes.
5. Keyway: Match Facility Standard.
D. Keying System: Each type of lock and cylinders to be factory keyed.
1. Conduct specified "Keying Conference" to define and document keying system instructions and requirements.
2. Furnish factory cut, nickel-silver large bow permanently inscribed with a visual key control number as directed by Owner.
3. Existing System: Field verify and key locks to match Owner's existing system.
E. Key Quantity: Provide the following minimum number of keys:
1. Change Keys per Cylinder: Two (2)
2. Master Keys (per Master Key Level/Group): Five (5).
3. Construction Keys (where required): Ten (10).
F. Construction Keying: Provide construction master keyed cylinders.
G. Key Registration List (Bitting List):
1. Provide keying transcript list to Owner's representative in the proper format for importing into key control software.

DOOR HARDWARE 087100 - 7

BERKELEY CITY COLLEGE ENTRY DOOR REPLACEMENT BERKELEY, CA 5271.00
2. Provide transcript list in writing or electronic file as directed by the Owner.
2.4 LOCK AND LATCH STRIKES
A. Strikes: Provide manufacturer's standard strike with strike box for each latch or lock bolt, with curved lip extended to protect frame, finished to match door hardware set, unless otherwise indicated, and as follows:
1. Flat-Lip Strikes: For locks with three-piece antifriction latchbolts, as recommended by manufacturer.
2. Extra-Long-Lip Strikes: For locks used on frames with applied wood casing trim.
3. Aluminum-Frame Strike Box: Provide manufacturer's special strike box fabricated for aluminum framing.
4. Double-lipped strikes: For locks at double acting doors. Furnish with retractable stop for rescue hardware applications.
B. Standards: Comply with the following:
1. Strikes for Mortise Locks and Latches: BHMA A156.13.
2. Strikes for Bored Locks and Latches: BHMA A156.2.
3. Strikes for Auxiliary Deadlocks: BHMA A156.36.
4. Dustproof Strikes: BHMA A156.16.
2.5 CONVENTIONAL EXIT DEVICES
A. General Requirements: All exit devices specified herein shall meet or exceed the following criteria:
1. At doors not requiring a fire rating, provide devices complying with NFPA 101 and listed and labeled for "Panic Hardware" according to UL305. Provide proper fasteners as required by manufacturer including sex nuts and bolts at openings specified in the Hardware Sets.
2. Where exit devices are required on fire rated doors, provide devices complying with NFPA 80 and with UL labeling indicating "Fire Exit Hardware". Provide devices with the proper fasteners for installation as tested and listed by UL. Consult manufacturer's catalog and template book for specific requirements.
3. Except on fire rated doors, provide exit devices with hex key dogging device to hold the pushbar and latch in a retracted position. Provide optional keyed cylinder dogging on devices where specified in Hardware Sets.
4. Devices must fit flat against the door face with no gap that permits unauthorized dogging of the push bar. The addition of filler strips is required in any case where the door light extends behind the device as in a full glass configuration.
5. Lever Operating Trim: Where exit devices require lever trim, furnish manufacturer's heavy duty escutcheon trim with threaded studs for thru-bolts.

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AGENCY APPROVAL

Table with 3 columns: NO., REVISION NAME, DATE.

PROJECT INFORMATION PCCD BCC ENTRY DOOR REPLACEMENT

FACILITY NAME: BERKELEY CITY COLLEGE
FACILITY ADDRESS: 2050 CENTER ST, BERKELEY, CA 94704
UNIVERSITY PROJECT NUMBER:
AUTHORITY HAVING JURISDICTION: DSA
ARCHITECT PROJECT NO.: 5271.100

SHEET TITLE DATE: 10/21/2021

DOOR HARDWARE

SHEET NUMBER SCALE: 1/2" = 1'-0"

A-602

11/24/2021 6:47:40 AM A-602_DOOR HARDWARE © 10/21/2021 TAYLOR & ASSOCIATES ARCHITECTS LLP. ALL RIGHTS RESERVED. THIS DRAWING IS NOT TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, WITHOUT PERMISSION IN WRITING FROM TAYLOR & ASSOCIATES ARCHITECTS LLP.

11/24/2021 6:47:42 AM A-604 - GLAZING SPECIFICATIONS

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SECTION 08 80 00
GLAZING

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Insulating glass units.

1.02 REFERENCE STANDARDS

A. 16 CFR 1201 - Safety Standard for Architectural Glazing Materials; current edition.

B. ANSI Z97.1 - American National Standard for Safety Glazing Materials Used in Buildings - Safety Performance Specifications and Methods of Test; 2015.

C. ASCE 7 - Minimum Design Loads and Associated Criteria for Buildings and Other Structures; Most Recent Edition Cited by Referring Code or Reference Standard.

D. ASTM C864 - Standard Specification for Dense Elastomeric Compression Seal Gaskets, Setting Blocks, and Spacers; 2005 (Reapproved 2015).

E. ASTM C920 - Standard Specification for Elastomeric Joint Sealants; 2018.

F. ASTM C1036 - Standard Specification for Flat Glass; 2016.

G. ASTM C1172 - Standard Specification for Laminated Architectural Flat Glass; 2014.

H. ASTM C1193 - Standard Guide for Use of Joint Sealants; 2016.

I. ASTM C1376 - Standard Specification for Pyrolytic and Vacuum Deposition Coatings on Flat Glass; 2015.

J. ASTM E1300 - Standard Practice for Determining Load Resistance of Glass in Buildings; 2016.

K. ASTM E2190 - Standard Specification for Insulating Glass Unit Performance and Evaluation; 2010.

L. GANA (SM) - GANA Sealant Manual; 2008.

M. NFRC 100 - Procedure for Determining Fenestration Product U-factors; 2017.

N. NFRC 200 - Procedure for Determining Fenestration Product Solar Heat Gain Coefficient and Visible Transmittance at Normal Incidence; 2014, with Errata (2017).

O. NFRC 300 - Test Method for Determining the Solar Optical Properties of Glazing Materials and Systems; 2017.

1.03 ADMINISTRATIVE REQUIREMENTS

A. Preinstallation Meeting: Convene a preinstallation meeting one week before starting work of this section; require attendance by each of the affected installers.

1.04 SUBMITTALS

A. Product Data on Insulating Glass Unit Glazing Types: Provide structural, physical and environmental characteristics, size limitations, special handling and installation requirements.

B. Product Data on Glazing Compounds and Accessories: Provide chemical, functional, and environmental characteristics, limitations, special application requirements, and identify available colors.

C. Samples: Submit two samples 12 by 12 inch in size of glass units.

D. Warranty Documentation: Submit manufacturer warranty and ensure that forms have been completed in Owner's name and registered with manufacturer.

1.05 QUALITY ASSURANCE

A. Manufacturer Qualifications: Company specializing in manufacturing the products specified in this section with minimum three years of documented experience.

GLAZING 08 80 00 - 01

1. Provide certified glass products through ANSI accredited certifications that include plant audits and independent laboratory performance testing.

a. Insulating Glass Certification Council (IGCC).

b. Safety Glazing Certification Council (SGCC).

1.06 FIELD CONDITIONS

A. Do not install glazing when ambient temperature is less than 40 degrees F.

B. Maintain minimum ambient temperature before, during and 24 hours after installation of glazing compounds.

1.07 WARRANTY

A. Insulating Glass Units: Provide a five (5) year manufacturer warranty to include coverage for seal failure, interpane dusting or misting, including providing products to replace failed units.

B. Laminated Glass: Provide a five (5) year manufacturer warranty to include coverage for delamination, including providing products to replace failed units.

PART 2 PRODUCTS

2.01 MANUFACTURERS

A. Glass Fabricators:

- GGI - General Glass International: www.generalglass.com.
- Trulite Glass & Aluminum Solutions, LLC: www.trulite.com.
- Viracon, Inc: www.viracon.com.
- Old Castle Building Envelope, Architectural Glass: www.obc.com.

B. Laminated Glass Manufacturers:

- Cardinal Glass Industries: www.cardinalcorp.com.
- Goldray Industries, Inc: www.goldrayglass.com.
- Viracon, Architectural Glass segment of Apogee Enterprises, Inc: www.viracon.com.
- Old Castle Building Envelope, Architectural Glass: www.obc.com.

2.02 PERFORMANCE REQUIREMENTS - EXTERIOR GLAZING ASSEMBLIES

A. Provide type and thickness of exterior glazing assemblies to support assembly dead loads, and to withstand live loads caused by positive and negative wind pressure acting normal to plane of glass:

- Comply with ASTM E1300 for design load resistance of glass type, thickness, dimensions, and maximum lateral deflection of supported glass.
- Seismic Loads: Design and size glazing components to withstand seismic loads and sway displacement in accordance with the requirements of ASCE 7.
- Provide glass edge support system sufficiently stiff to limit the lateral deflection of supported glass edges to less than 1/175 of their lengths under specified design load.
- Glass thicknesses listed are minimum.

B. Vapor Retarder and Air Barrier Seals: Provide completed assemblies that maintain continuity of building enclosure vapor retarder and air barrier.

- In conjunction with vapor retarder and joint sealer materials described in other sections.

C. Thermal and Optical Performance: Provide exterior glazing products with performance properties as indicated. Performance properties are in accordance with manufacturer's published data as determined with the following procedures and/or test methods:

- Center of Glass U-Value: Comply with NFRC 100 using Lawrence Berkeley National Laboratory (LBNL) WINDOW 6.3 computer program.
- Center of Glass Solar Heat Gain Coefficient (SHGC): Comply with NFRC 200 using Lawrence Berkeley National Laboratory (LBNL) WINDOW 6.3 computer program.
- Solar Optical Properties: Comply with NFRC 300 test method.

2.03 GLASS MATERIALS

GLAZING 08 80 00 - 02

A. Laminated Glass: Float glass laminated in accordance with ASTM C1172.

- Laminated Safety Glass: Complies with ANSI Z97.1 - Class B or 16 CFR 1201 - Category I impact test requirements.

2.04 INSULATING GLASS UNITS

A. Manufacturers:

- Fabricator certified by glass manufacturer for type of glass, coating, and treatment involved and capable of providing specified warranty.
- AGC Glass North America, Inc: www.agcglass.com.
- Guardian Glass, LLC: www.guardianglass.com.
- Pilkington North America Inc: www.pilkington.com/na.
- Viracon, Apogee Enterprises, Inc: www.viracon.com.
- Old Castle Building Envelope, Architectural Glass: www.obc.com.

B. Insulating Glass Units: Types as indicated.

- Durability: Certified by an independent testing agency to comply with ASTM E2190.
- Coated Glass: Comply with requirements of ASTM C1376 for pyrolytic (hard-coat) or magnetic sputter vapor deposition (soft-coat) type coatings on flat glass; coated vision glass, Kind CV; coated overhead glass, Kind CO; or coated spandrel glass, Kind CS.
- Metal Edge Spacers: Aluminum, bent and soldered corners.
- Spacer Color: Black.
- Edge Seal:
 - Dual-Sealed System: Provide polyisobutylene sealant as primary seal applied between spacer and glass panes, and silicone, polysulfide, or polyurethane sealant as secondary seal applied around perimeter.
 - Color: Black.
- Purge interpane space with dry air, hermetically sealed.
- Type GL-1 - Insulating Glass Units: Vision glass, double glazed. Match existing glass units, verify in the field.
 - Applications: Exterior glazing unless otherwise indicated.
 - Space between lites filled with air.
 - Outboard Lite: Laminated, 1/4 inch thick, minimum.
 - Tint: Clear. To match existing glass color and tint.
 - Coating: Low-E (solar control type), on #2 surface. To match existing coating.
 - Inboard Lite: Laminated, 1/4 inch thick, minimum.
 - Tint: Clear. To match existing glass color and tint.
 - Total Thickness: 1 inch.

2.05 GLAZING COMPOUNDS

A. Silicone Sealant: Single component; neutral curing; capable of water immersion without loss of properties; non-bleeding, non-staining; ASTM C920, Type S, Grade NS, Class 25, Uses M, A, and G; with cured Shore A hardness range of 15 to 25; black color.

2.06 ACCESSORIES

A. Setting Blocks: Silicone, with 80 to 90 Shore A durometer hardness; ASTM C864 Option II. Length of 0.1 inch for each square foot of glazing or minimum 4 inch by width of glazing rabbit space minus 1/16 inch by height to suit glazing method and pane weight and area.

B. Spacer Shims: Neoprene, 50 to 60 Shore A durometer hardness; ASTM C864 Option II. Minimum 3 inch long by one half the height of the glazing stop by thickness to suit application, self adhesive on one face.

C. Glazing Tape, Back Bedding Mastic Type: Preformed, butyl-based, 100 percent solids compound with integral resilient spacer rod applicable to application indicated; 5 to 30 cured Shore A durometer hardness; coiled on release paper; black color.

GLAZING 08 80 00 - 02

- Width: As required for application.
- Thickness: As required for application.
- Spacer Rod Diameter: As required for application.

D. Glazing Spines: Resilient silicone extruded shape to suit glazing channel retaining slot; ASTM C864 Option II; color black.

PART 3 EXECUTION

3.01 VERIFICATION OF CONDITIONS

A. Verify that openings for glazing are correctly sized and within tolerances, including those for size, squareness, and offsets at corners.

B. Verify that the minimum required face and edge clearances are being provided.

C. Verify that surfaces of glazing channels or recesses are clean, free of obstructions that may impede moisture movement, weeps are clear, and support framing is ready to receive glazing system.

D. Verify that sealing between joints of glass framing members has been completed effectively.

E. Proceed with glazing system installation only after unsatisfactory conditions have been corrected.

3.02 PREPARATION

A. Clean contact surfaces with appropriate solvent and wipe dry within maximum of 24 hours before glazing. Remove coatings that are not tightly bonded to substrates.

B. Seal porous glazing channels or recesses with substrate compatible primer or sealer.

C. Prime surfaces scheduled to receive sealant where required for proper sealant adhesion.

3.03 INSTALLATION, GENERAL

A. Install glazing sealants in accordance with ASTM C1193, GANA (SM), and manufacturer's instructions.

B. Do not exceed edge pressures around perimeter of glass lites as stipulated by glass manufacturer.

C. Set glass lites of system with uniform pattern, draw, bow, and similar characteristics.

D. Set glass lites in proper orientation so that coatings face exterior or interior as indicated.

3.04 CLEANING

A. Remove excess glazing materials from finish surfaces immediately after application using solvents or cleaners recommended by manufacturers.

B. Remove non-permanent labels immediately after glazing installation is complete.

C. Clean glass and adjacent surfaces after sealants are fully cured.

D. Clean glass on both exposed surfaces not more than 4 days prior to Date of Substantial Completion in accordance with glass manufacturer's written recommendations.

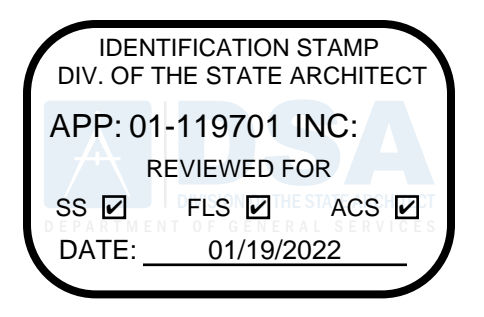
3.05 PROTECTION

A. After installation, mark pane with an 'X' by using removable plastic tape or paste; do not mark heat absorbing or reflective glass units.

B. Remove and replace glass that is damaged during construction period prior to Date of Substantial Completion.

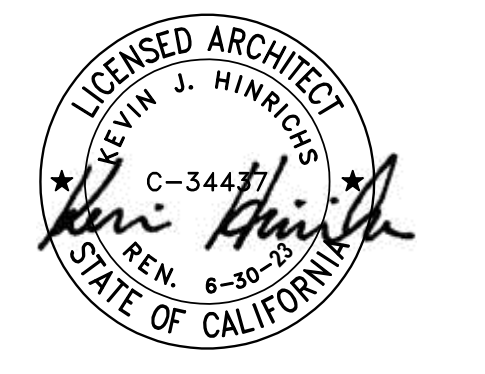
END OF SECTION

GLAZING 08 80 00 - 04



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DESIGN PROFESSIONAL STAMP



AGENCY APPROVAL

REVISION SCHEDULE		
NO.	REVISION NAME	DATE

PROJECT INFORMATION

PCCD
BCC ENTRY DOOR REPLACEMENT

FACILITY NAME: BERKELEY CITY COLLEGE
 FACILITY ADDRESS: 2650 CENTER ST, BERKELEY, CA 94704
 UNIVERSITY PROJECT NUMBER:
 AUTHORITY HAVING JURISDICTION: BSA
 ARCHITECT PROJECT NO.: 6271.100

SHEET TITLE DATE: 10/21/2021

GLAZING SPECIFICATIONS

SHEET NUMBER SCALE: 1/2" = 1'-0"

A-604

SYSTEM SEQUENCE OF OPERATIONS

FILE PATH: C:\Users\jgibson\Documents\Projects\Johnson Controls\BCCD Door Replacement\Working Drawings\FA-002.dwg

LAST SAVED BY: jgibson

LAST PRINTED: 1/26/2021 10:52:47 AM

30" x 42" - Arch E Size

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ID	DEVICE	DESCRIPTION	ARMOR DOME DETECT PYES	ALARM AT FAEP	ALARM AT ANNUNCIATOR	ACTIVATE AUDIBLES	ACTIVATE VISUALS	TROUBLE AT FAEP	TROUBLE AT ANNUNCIATOR	SUPERVISORY AT FAEP	SUPERVISORY AT ANNUNCIATOR	RELEASE ELEVATOR MAGNETIC DOOR HOLDERS	MAIN FLOOR ELEVATOR RECALL	ALTERNATE FLOOR ELEVATOR RECALL	ELEVATOR SHUNT TRIP	ACTIVATE ATRIUM RELIEF FANS (RT - IN)	ACTIVATE ATRIUM RELIEF FANS (RT - DFT)	ACTIVATE EAST SUPPLY FANS (AC-1A/B/C) - DN	ACTIVATE WEST SUPPLY FANS (AC-2A/B) - DFT	ACTIVATE ATRIUM SUPPLY SMOKE DAMPERS (CS-AH) - OPEN	ACTIVATE ATRIUM BOUNDARY SMOKE DAMPERS (CS-AH) - CLOSED	ACTIVATE ATRIUM ENTRY DOORS - OPEN	ACTIVATE ASSOCIATED SMOKE DAMPER	SHUTDOWN ASSOCIATED NON-LAB HVAC UNIT
ME-1-0	NLD	BASMENT ELEV MACH ROOM 012	IBI-1	X	X	X	X																	
ME-2-0	P/S	BASMENT CORR 041 BY STAIR 4	IBI-2	X	X	X	X																	
ME-3-0	P/S	BASMENT STAIR 5 ENTRANCE	IBI-3	X	X	X	X																	
ME-4-0	S.D.	BASMENT MAIN ELECTRICAL 045	IBI-4	X	X	X	X																	
ME-5-0	S.D.	BASMENT CORR 030 ATRIUM REOR	IBI-5	X	X	X	X																	
ME-6-0	S.D.	BASMENT SERVICE ELEV 5 LOBBY 024	IBI-6	X	X	X	X																	
ME-7-0	S.D.	BASMENT ELEV 2 LOBBY IN ATRIUM	IBI-7	X	X	X	X																	
ME-8-0	S.D.	BASMENT ELEV 3 LOBBY IN ATRIUM	IBI-8	X	X	X	X																	
ME-9-0	S.D.	BASMENT ELEV 4 LOBBY IN ATRIUM	IBI-9	X	X	X	X																	
ME-10-0	S.D.	BASMENT CORR 060 ATRIUM REOR	IBI-10	X	X	X	X																	
ME-11-0	S.D.	BASMENT CORR 040 ATRIUM REOR	IBI-11	X	X	X	X																	
ME-12-0	S.D.	BASMENT FIRE PUMP ROOM 042	IBI-12	X	X	X	X																	
ME-13-0	S.D.	BASMENT ELEV MACH ROOM 012	IBI-13	X	X	X	X																	
ME-14-0	S.D.	BASMENT CORR 010 ATRIUM REOR	IBI-14	X	X	X	X																	
ME-15-0	S.D.	BASMENT JULIO'S CLOSET 019	IBI-15	X	X	X	X																	
ME-16-0	S.D./H/LB	BASMENT GEN FUEL 018	IBI-16	X	X	X	X																	
ME-17-0	S.D.	BASMENT ELEV MACH ROOM 025	IBI-17	X	X	X	X																	
ME-18-0	S.D.	BASMENT MEF RM 006	IBI-18	X	X	X	X																	
ME-19-0	S.D.	BASMENT FSD 088	IBI-19	X	X	X	X																	
ME-20-0	S.D.	BASMENT FSD 063	IBI-20	X	X	X	X																	
ME-21-0	S.D.	BASMENT FSD 015	IBI-21	X	X	X	X																	
ME-22-0	S.D.	BASMENT FSD 017	IBI-22	X	X	X	X																	
ME-24-0	S.D.	BASMENT FSD 018	IBI-24	X	X	X	X																	
ME-25-0	IN DUCT S.D.	BASMENT FSD 016	IBI-25	X	X	X	X																	
ME-26-0	IN DUCT S.D.	BASMENT FSD 021	IBI-26	X	X	X	X																	
ME-27-0	IN DUCT S.D.	BASMENT FSD 027	IBI-27	X	X	X	X																	
ME-28-0	S.D.	BASMENT FSD 066	IBI-28	X	X	X	X																	
ME-29-0	S.D.	BASMENT FSD 088	IBI-29	X	X	X	X																	
ME-30-0	IN DUCT S.D.	BASMENT FSD 014	IBI-30	X	X	X	X																	
ME-31-0	IN DUCT S.D.	BASMENT FSD 010	IBI-31	X	X	X	X																	
ME-32-0	T/S	GROUND FLOOR TAMPER STAIR 4	IBI-32					X	X															
ME-33-0	T/S	BASE FLOOR STAIRWELL 4	IBI-33					X	X															
ME-34-0	T/S	GROUND FLR TAMPER ROOM 037	IBI-34					X	X															
ME-36-0	NLD	BASMENT ELEV MACH 025	IBI-36	X	X	X	X																	
ME-37-0	IN DUCT S.D.	BASMENT FSD 063	IBI-37 EXHAUST	X	X	X	X																	
ME-38-0	S.D.	BASMENT FSD 066	IBI-38	X	X	X	X																	
ME-41-0	P/S	BASMENT ATRIUM	IBI-41	X	X	X	X																	
ME-42-0	P/S	BASMENT AUDITORIUM NE EXIT	IBI-42	X	X	X	X																	
ME-43-0	P/S	BASMENT AUDITORIUM SW EXIT	IBI-43	X	X	X	X																	
ME-44-0	P/S	BASMENT AUDITORIUM SV EXIT	IBI-44	X	X	X	X																	
ME-45-0	P/S	BASMENT AUDITORIUM NW EXIT	IBI-45	X	X	X	X																	
ME-48-0	JAM	BASMENT FIRE PUMP RUN	IBI-48					X	X															
ME-49-0	JAM	BASMENT FIRE PUMP POWER LOSS	IBI-49					X	X															
ME-50-0	JAM	BASMENT FIRE PUMP POWER REVERSION	IBI-50-0					X	X															
ME-52-0	S.D.	BASMENT FSD 099	IBI-52	X	X	X	X																	
ME-56-0	IN DUCT S.D.	BASMENT FSD 011	IBI-56	X	X	X	X																	
ME-67-0	JAM	JFL 50A DAMPER POWER MONITOR	IBI-67					X	X															
ME-68-0	S.D.	BASE CORRIDOR 041 (PANEL SMOKE)	IBI-68	X	X	X	X																	
ME-70-0	S.D.	BASMENT FSD 021	IBI-70	X	X	X	X																	
ME-71-0	IN DUCT S.D.	BASMENT FSD 062	IBI-71 EXHAUST	X	X	X	X																	
ME-73-0	S.D.	BASMENT FSD 099	IBI-73	X	X	X	X																	
ME-74-0	S.D.	BASMENT FSD 013	IBI-74	X	X	X	X																	
ME-76-0	S.D.	BASMENT FSD 015	IBI-76	X	X	X	X																	
ME-77-0	S.D.	BASMENT FSD 015	IBI-77	X	X	X	X																	
ME-78-0	S.D.	BASMENT FSD 017	IBI-78	X	X	X	X																	
ME-79-0	S.D.	BASMENT FSD 017	IBI-79	X	X	X	X																	
ME-80-0	JAM	JFL MAIN ENTRY BR POWER MONIT	IBI-80					X	X															
ME-85-0	P/S	JFL CORRIDOR 117 EXIT	IBI-85	X	X	X	X																	
ME-86-0	P/S	JFL MAIN LOBBY EXIT	IBI-86	X	X	X	X																	
ME-87-0	P/S	JFL LIBRARY 131 EXIT	IBI-87	X	X	X	X																	
ME-88-0	S.D.	JFL SECURITY CONTROL RM 006	IBI-88	X	X	X	X																	
ME-89-0	S.D.	JFL ELEV 4	IBI-89	X	X	X	X																	
ME-90-0	S.D.	JFL ELEV 3	IBI-90	X	X	X	X																	
ME-91-0	S.D.	JFL ELEV 2	IBI-91	X	X	X	X																	
ME-92-0	S.D.	JFL ELEV 1	IBI-92	X	X	X	X																	
ME-93-0	S.D.	JFL ELEC ROOM 105	IBI-93	X	X	X	X																	
ME-99-0	S.D.	JFL FSD 125	IBI-99	X	X	X	X																	
ME-96-0	S.D.	JFL FSD 101	IBI-96	X	X	X	X																	
ME-98-0	S.D.	JFL FSD 115	IBI-98	X	X	X	X																	
ME-99-0	S.D.	JFL FSD 114	IBI-99	X	X	X	X																	
ME-100-0	IN DUCT S.D.	JFL FSD 120	IBI-100	X	X	X	X																	
ME-101-0	IN DUCT S.D.	JFL FSD 108	IBI-101	X	X	X	X																	
ME-103-0	IN DUCT S.D.	JFL FSD 112	IBI-103	X	X	X	X																	
ME-104-0	S.D.	JFL FSD 106	IBI-104	X	X	X	X																	
ME-105-0	S.D.	JFL FSD 110	IBI-105	X	X	X	X																	
ME-106-0	IN DUCT S.D.	JFL FSD 109	IBI-106	X	X	X	X																	
ME-108-0	T/S	1ST FLOOR STAIRWELL 4	IBI-108					X	X															
ME-109-0	T/S	1ST FLOOR STAIRWELL 4	IBI-109					X	X															
ME-110-0	T/S	1ST FLOOR STAIRWELL 3	IBI-110					X	X															
ME-111-0	T/S	1ST FLOOR STAIRWELL 3	IBI-111	X	X	X	X																	
ME-112-0	P/S	1ST STAIRWELL 4 EXIT	IBI-112	X	X	X	X																	
ME-113-0	P/S	1ST LOADING DOCK EXIT	IBI-113	X	X	X	X																	
ME-114-0	P/S	1ST ATRIUM	IBI-114	X	X	X	X																	
ME-115-0	IN-DUCT	JFL FSD 101-115		X	X	X	X																	
ME-117-0	S.D.	1ST SERVICE ELEV. LOADING DOCK	IBI-117	X	X	X	X																	
ME-118-0	IN-DUCT	JFL FSD 101-118		X	X	X	X																	
ME-120-0	IN-DUCT	JFL FSD 101-120		X	X	X	X																	
ME-123-0	IN DUCT S.D.	JFL FSD 102	IBI-123	X	X	X	X																	
ME-132-0	S.D.	JFL FLOOR FSD 101	IBI-132	X	X	X	X																	
ME-133-0	S.D.	FSD 106	IBI-133																					

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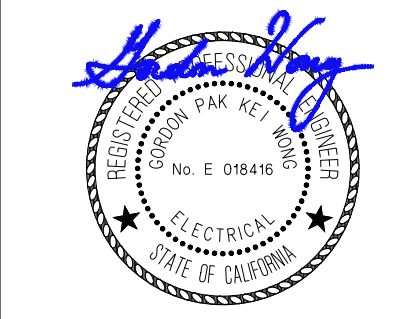
30" x 42" - inch E Size

- GENERAL NOTES:**
1. ALL CEILINGS ARE ASSUMED TO BE 10' A.F.F., SMOOTH CONSTRUCTION UNLESS NOTED OTHERWISE.
 2. DO NOT CHANGE DEFAULT APPLIANCE CONFIGURATION SWITCH SETTINGS. ADDRESSABLE AV DEVICES (CP10), REFER TO DEVICE DETAILS AND INSTALLATION INSTRUCTIONS FOR MORE INFORMATION.
 3. THE DEVICE ADDRESSES INDICATED ON THESE DRAWINGS ARE AN ALPHANUMERIC DESCRIPTION OF WHICH CIRCUIT THE DEVICE IS LOCATED ON. DEVICES MAY BE ASSIGNED A DIFFERENT NUMBER WITHIN THE PANEL PROGRAM. CONSULT WITH A JOHNSON CONTROLS TECHNICIAN BEFORE APPLYING A PHYSICAL LABEL TO ANY DEVICES.

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT

APP: 01-119701 INC.
REVIEWED FOR: SS FLS ACS
DATE: 01/19/2022

Johnson Controls
BOSTON OFFICE
800 BOSTON AVENUE, SUITE A
LIVERMORE, CA 94551-6946
PHONE: 925-293-9100
FAX: 925-293-9901



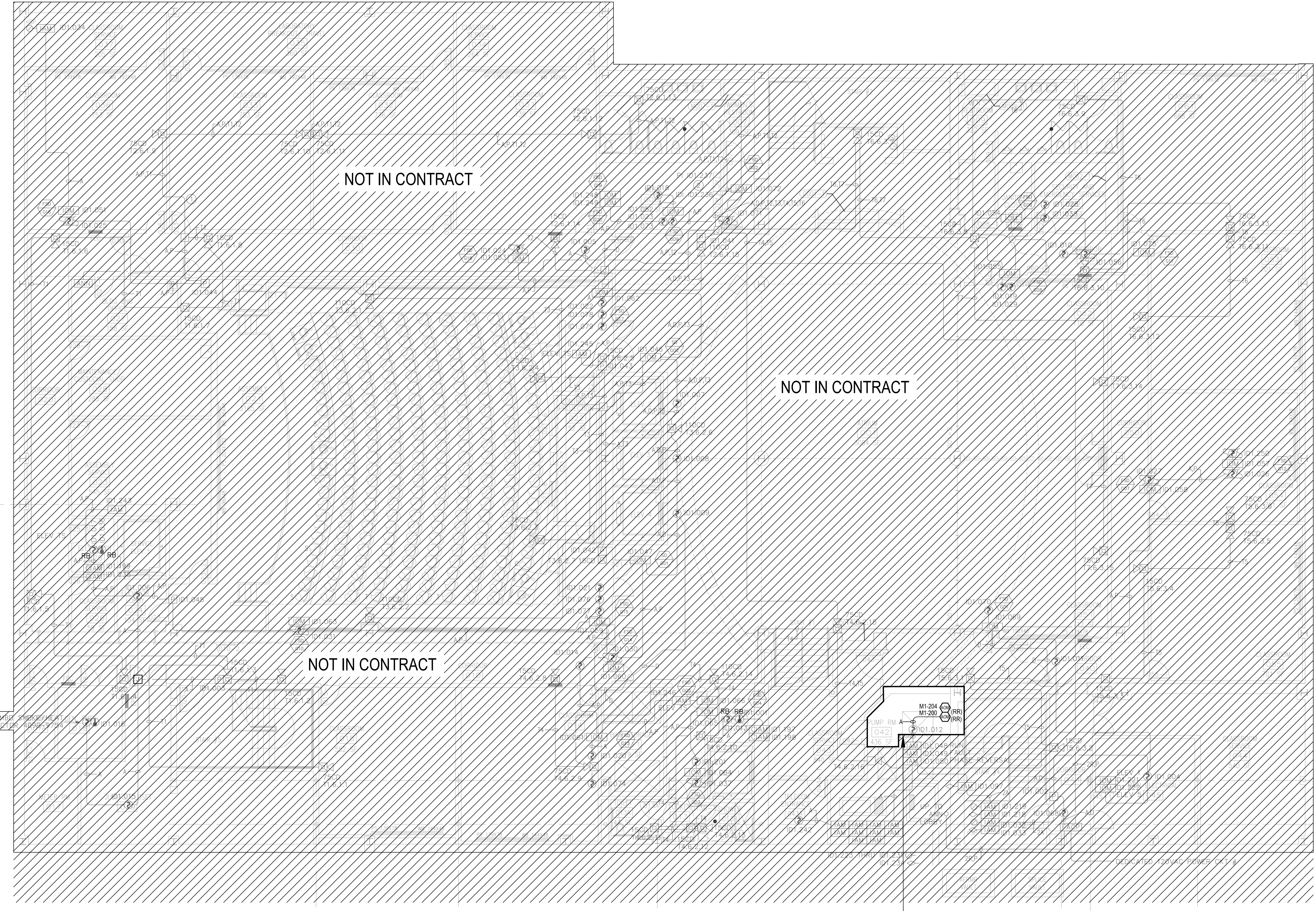
PCCD BCC DOOR REPLACEMENT

PCCD BCC DOOR REPLACEMENT
2050 CENTER ST
BERKELEY, CA, 94704

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					ISSUE SUBMITTAL - EDC2
		11/19/2021			

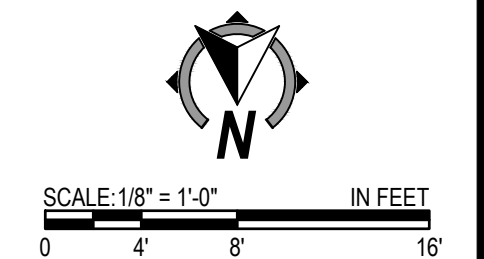
DRAWN BY:	KM
CHECKED BY:	DR
ISSUE DATE:	3/16/20
JOB #:	417434169
PROJECT #:	41751452801
SYSTEM:	JOHNSON CONTROLS E 2021
SHEET:	FIRE ALARM SYSTEM
DEVICE PLACEMENT PLAN - BASEMENT	

FA-101



DEVICE PLACEMENT PLAN - BASEMENT

SCALE: 1/8" = 1'-0"



FILE PATH: C:\Users\jgibson\Documents\ControlPanel\Johnson Controls\Projects\Electronics - 417-Safe Fire Alarm\Batteries\2050_Center_Sheet\11/19/2021_PCCD BCC Door Replacement\Working Drawings\FA-601.dwg

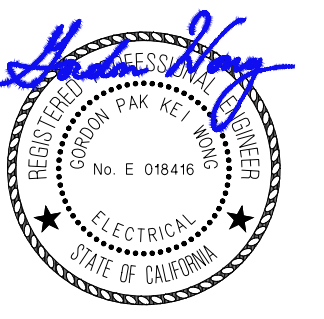
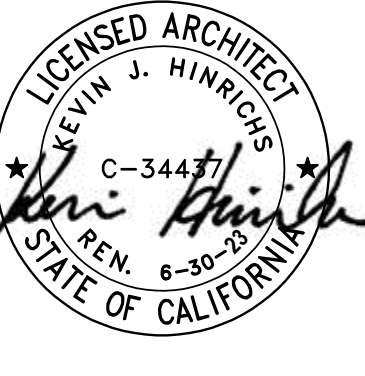
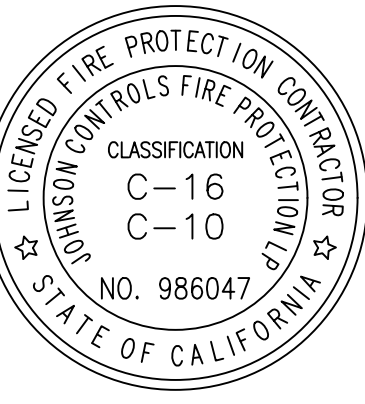
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30" x 42" - Arch E Size

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DATE: 01/19/2022

Johnson Controls
805 BOSTON AVENUE, SUITE A
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PCCD BCC DOOR REPLACEMENT

PCCD BCC DOOR REPLACEMENT
2050 CENTER ST
BERKELEY, CA, 94704

ISSUE NO.	MARK	DATE	CAD	CHK	DESCRIPTION	DATE
					ISSUESUBMITTAL - BCC2	11/19/2021

DRAWN BY: KM
CHECKED BY: DR
ISSUE DATE: 3/16/20
JOB #: 417434169
PROJECT #: 417517452001
PROJECT NAME: JOHNSON CONTROLS @ 2021

SYSTEM:
FIRE ALARM SYSTEM

SHEET:
CALCULATIONS AND SCHEDULES

FA-601

(E) 4100U FACP						
Module	Qty	Description	Standby Current	Total Standby	Alarm Current	Total Alarm
Panel Equipment						
4100-9111	1	4100U CONFIG. DOMESTIC 120V	0.373000	0.373000	0.470	0.470
4100-3101	2	IDNET MODULE, UP TO 250 POINTS	0.075000	0.150000	0.115	0.230
4100-3202	1	4 RELAYS, 10 AMP CONTACTS	0.015000	0.015000	0.175	0.175
4100-6014	1	NETWORK I/F CARD, WIRED	0.046000	0.046000	0.046	0.046
4100-6037	1	PHYSICAL BRIDGE, STYLE 7	0.300000	0.300000	0.300	0.300
4100-6052	1	EVENT REPORTING DACT	0.030000	0.030000	0.040	0.040
4100-6056	2	NETWORK MEDIA CARD WIRED	0.055000	0.110000	0.055	0.110
4100-6060	1	SAFELINC FP INTERNET INTERFACE	0.115000	0.115000	0.115	0.115
Total Panel Stby			1.139000	1.139000	Total Panel Alarm	1.486
Peripheral Devices						
4098-9792	122	TRUEALARM SENSOR BASE	0.000000	0.000000	0.000	0.000
4098-9791	4	TRUEALARM SENSOR BASE W/ RELAY DRIVER	0.000270	0.001080	0.004	0.016
2098-9737	2	RELAY DPDT 3 AMP	0.000000	0.000000	0.024	0.048
4098-9750	33	TRUEALARM PHOTO IN DUCT SMOKE SENSOR W/O RELAY	0.000000	0.000000	0.000	0.000
4098-9756	6	TRUEALARM DUCT SMOKE SENSOR W/ RELAY OUTPUT	0.000000	0.018000	0.015	0.090
4099-9001	26	IDNET SINGLE ACTION PULL STATION	0.000000	0.000000	0.000	0.000
4099-9001	30	IDNET SUPERVISED IAM	0.000000	0.000000	0.000	0.000
4099-9002	4	IDNET RELAY IAM	0.000000	0.000000	0.000	0.000
4099-9118	119	RELAY IDNET 2 IAM W/IT SENSE	0.000000	0.000000	0.000	0.000
4099-9120	11	4 POINT IDNET 2 I/O	0.030000	0.330000	0.030	0.330
4063-9101	2	SERIAL LCD ANNUNCIATOR	0.030000	0.060000	0.170	0.340
Total Periph Stby			0.4091	0.4091	Total Periph Alarm	0.824
Total Standby Amps			1.548	1.548	Total Alarm Amps	2.310

2 (N) AND 117 (E)

* Additional Current Draw Included With Device Addresses Used (See additional current draws)
1. 2-wire detector alarm current is included in the alarm current of the Initiating Device Circuit.

Battery Set #1 (Cabinet/Charger #1)	Qty	Standby Current	Alarm Current
Cabinet #1 Card Power		1.139	Backup Amplifier
Current Draw For 100 Watt Or 95 Watt Amplifiers	0	0.000	0
Current Draw For Flex 35 and 50 Watt Amplifiers	0	0.000	0.000
Power For External Peripheral Devices		0.40908	0.82400
Additional Current Draws		1.548	<- Sub Totals ->
RUI Connected Peripheral Devices	2	0.007	0.007
MAPNET/IDNet Device Addresses ordered / used	355 / 355.0	0.284	0.355
Spare addressable point capacity included for battery calc	0%	0.000	0.000
Additional Battery Capacity Required		1.839	<-Grand Totals ->
Standby Time =	24 Hrs	44.138	Standby Ah
Alarm Time =	5 Mins	0.223	Alarm Ah
Standby + Alarm =		44.361	
Minimum Battery Required per NFPA 72 2010	PW-PS1250U 55AH	53.233	20% Safety Margin Included
Battery Supplied	PW-PS1250U 55AH		

FOR DEVICE ADDRESS REFER FA-002 SEQUENCE OF OPERATION.

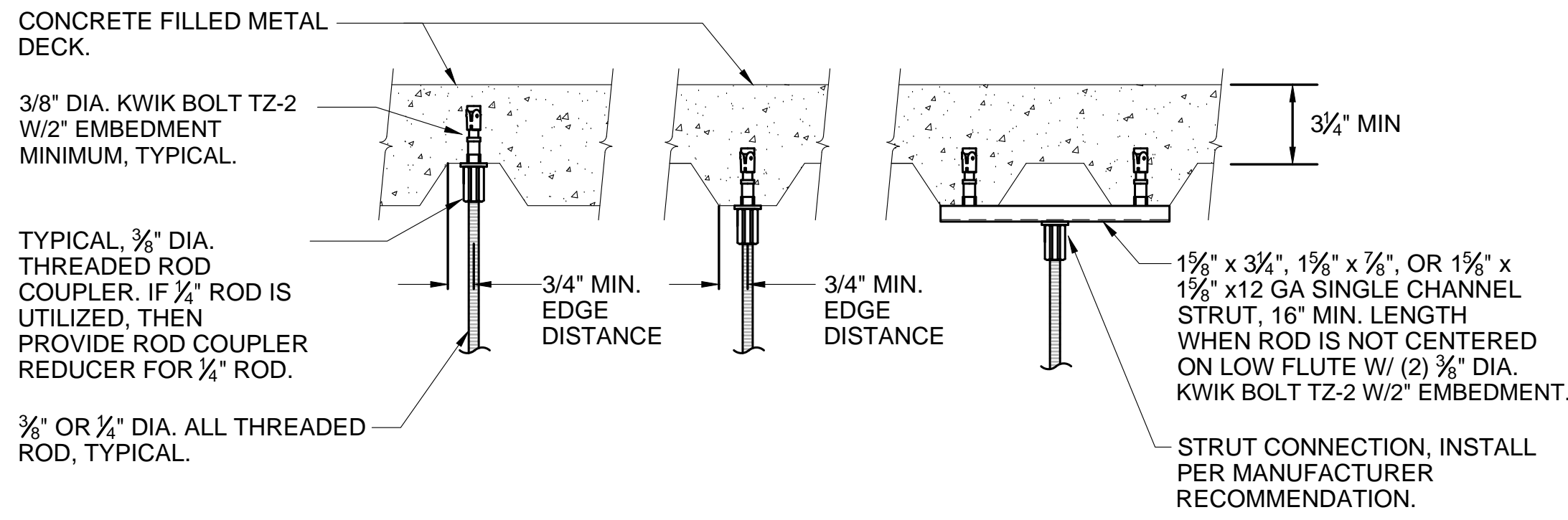
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STANDARD ELECTRICAL SYMBOLS

SYMBOL	DESCRIPTION
Ⓢ	1-POLE 1-PHASE MOTOR DISCONNECT SWITCH.
☒	CONTROL AND/OR EQUIPMENT, PROVIDED UNDER ANOTHER DIVISION, PROVIDE POWER CONNECTION AS INDICATED.
Ⓜ	MOTOR, PROVIDED UNDER ANOTHER DIVISION, PROVIDE POWER CONNECTION AS INDICATED.
ⓍⓍ	NUMBERED NOTE.
— x —	EXISTING CONDUIT RUN TO BE ABANDONED. CONDUIT ABOVE THE FLOOR AND BELOW THE STRUCTURE ABOVE SHALL BE REMOVED. CONDUCTORS SHALL BE REMOVED.
⌒	BRANCH CIRCUIT WITHOUT FURTHER DESIGNATION INDICATES A 2 #12 AWG CIRCUIT WITH 1 #12 AWG GROUND.
⌒ #10	BRANCH CIRCUIT RACEWAY WITH WIRE OTHER THAN #12 AWG. NUMBER ADJACENT TO STRAIGHT OR CURVED CROSS-LINES INDICATES WIRE SIZE. UNGROUNDED AND NEUTRAL CONDUCTORS SHALL BE THE SAME SIZE UNLESS OTHERWISE NOTED.
⌒ #10	BRANCH CIRCUIT WITH GROUNDING WIRE LARGER THAN #12 AWG. NUMBER ADJACENT TO CURVED CROSS-LINE INDICATES WIRE SIZE.
⬇	INDICATES RACEWAY TURNING DOWN.

ABBREVIATIONS

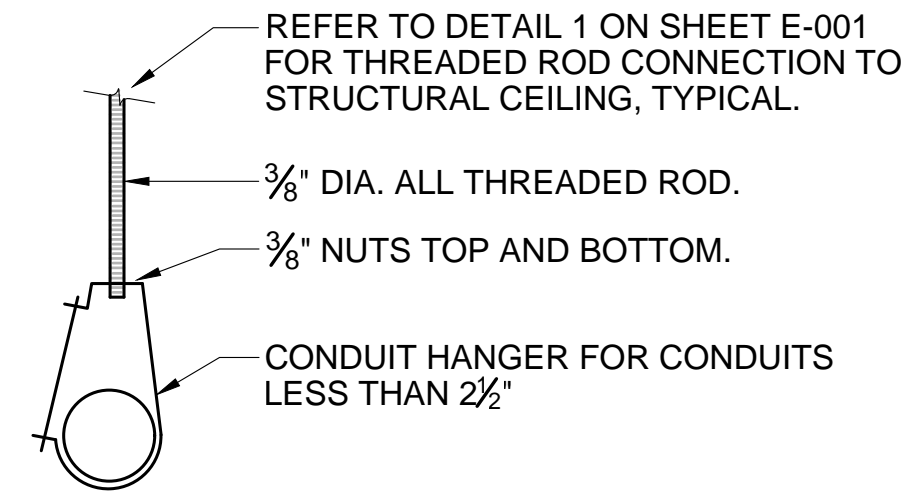
1PH, 3PH 1P, 2P, 3P 3W, 4W (D) (E) (ER) (N) (R)	1 PHASE, 3 PHASE 1 POLE, 2 POLE, 3 POLE 3 WIRE, 4 WIRE DEMO, DEMOLISH EXISTING EXISTING RELOCATED NEW RELOCATE	MCA MCB MCC MLO MOCB MT	-M- MINIMUM CIRCUIT AMPACITY MAIN CIRCUIT BREAKER MOTOR CONTROL CENTER MAIN LUGS ONLY MAXIMUM OVER-CURRENT PROTECTION EMPTY CONDUIT W/ PULL-LINE
A, AMPS AC AF AFF AIC	-A- AMPERES ALTERNATING CURRENT FRAME RATING IN AMPERES ABOVE FINISHED FLOOR AMPERES INTERRUPTING CAPACITY ALUMINUM AUTO TRANSFER SWITCH TRIP RATING IN AMPERES AMERICAN WIRE GAUGE	NC NCTC NEC NEMA NIES	-N- NORMALLY CLOSED NURSE CALL TERMINAL CABINET NATIONAL ELECTRIC CODE NATIONAL ELECTRICAL MANUFACTURER ASSOCIATION NOT INCLUDED IN ELECTRICAL SCOPE
AL, ALUM ATS AT AWG	ALUMINUM AUTO TRANSFER SWITCH TRIP RATING IN AMPERES AMERICAN WIRE GAUGE	NL NO NTS	NIGHT LIGHT NORMALLY OPEN NOT TO SCALE
BTR	-B- BUILDING TELECOM ROOM	OCP OFCI OFOI	-O- OVER-CURRENT PROTECTION OWNER FURNISHED CONTRACTOR INSTALLED OWNER FURNISHED OWNER INSTALLED
C CB,C/B CEC CT CU	CONDUIT CIRCUIT BREAKER CALIFORNIA ELECTRICAL CODE CURRENT TRANSFORMER COPPER	PT PVC	-P- POTENTIAL TRANSFORMER POLYVINYL CHLORIDE CONDUIT
DC	-D- DIRECT CURRENT	RLA RSC	-R- RUNNING LOAD AMP RIGID STEEL CONDUIT
EA ELEC EMT	-E- EACH ELECTRICAL ELECTRICAL METALLIC TUBING	SPD SPDT SPST SST	-S- SURGE PROTECTION DEVICE SINGLE POLE DOUBLE THROW SINGLE POLE SINGLE THROW SOLID STATE TRIP
FA FACP FATC FLA FT	FIRE ALARM FIRE ALARM CONTROL PANEL FIRE ALARM TERMINAL CABINET FULL LOAD AMPS FOOT OR FEET	TER TR TM TTB	-T- TELECOM EQUIPMENT ROOM TELECOM ROOM THERMAL MAGNETIC TERMINAL BACKBOARD
G, GND GA GFCI	-G- GROUND GAUGE GROUND FAULT CIRCUIT INTERRUPTER GROUND FAULT INTERRUPTER	UG UL UON UPS	-U- UNDERGROUND UNDERWRITERS LAB. UNLESS OTHERWISE NOTED UNINTERRUPTIBLE POWER SUPPLY
HOA HP	-H- HAND-OFF-AUTO HORSE POWER	V VA VAC	-V- VOLTS VOLT-AMPS VOLTS ALTERNATE CURRENT
J-BOX	-J- JUNCTION BOX	W WP	-W- WATTS WEATHERPROOF
KVA KW	-K- ONE THOUSAND VOLT-AMPS ONE THOUSAND WATTS	XFMR XFER	-X- TRANSFORMER TRANSFER SWITCH
LCP LTG	-L- LIGHTING CONTROL PANEL LIGHTING		



- NOTES:
- VERIFY THAT CONCRETE OVER METAL DECK MUST COMPLY WITH ICC-ES ESR-4266.
 - UPON INSTALLATION OF FASTENER INTO CONCRETE FILLED METAL DECK, CONTRACTOR TO PATCH/REPAIR DAMAGE TO EXISTING. SPRAY APPLIED FIREPROOFING, AS REQUIRED, TO RESTORE ORIGINAL FIREPROOFING THICKNESS AND FIRE RATING.
 - ANCHOR MAY BE PLACED AT HIGH OR LOW FLUTE, CENTER ANCHOR IN FLUTE.
 - TORQUE TEST 50% OF EXPANSION ANCHORS TO 25FT-LBS.

1 THREADED ROD TO CONC FILLED METAL DECK DETAIL 1

NO SCALE

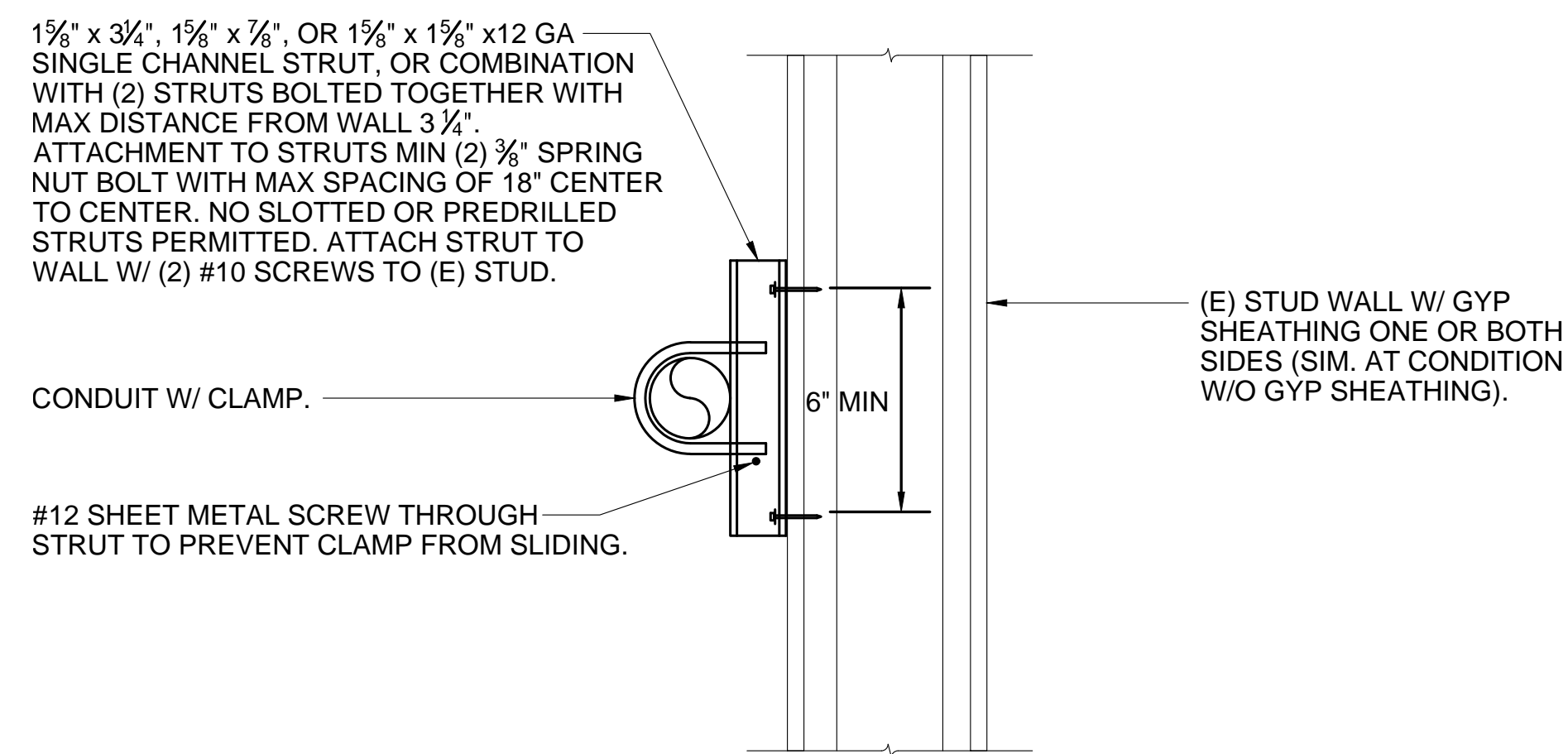


ELECTRICAL METALLIC TUBING (EMT)	
TRADE SIZE	COMBINED WEIGHT (LBS/LINEAL FOOT)
1/2"	0.45
3/4"	0.72
1"	1.09
1 1/4"	1.73
1 1/2"	2.14
2"	3.09

- NOTES:
- SPACING BETWEEN HANGERS SHALL BE PER CEC REQUIREMENTS, NOT EXCEEDING 3 FEET OF EACH RACEWAY TERMINATION, MAXIMUM OF 10 FEET BETWEEN SUPPORTS.

2 CONDUIT SUPPORT DETAIL

NO SCALE



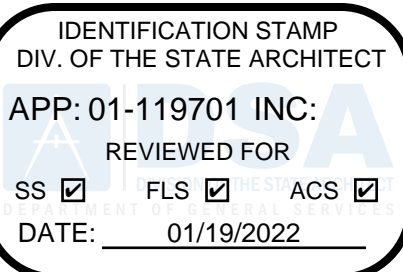
- NOTES:
- FOR 3/4" TO 2" CONDUIT, SUPPORTS @ 10'-0" OC MAX, MAX WEIGHT PER CONNECTION IS 20LBS.
 - FOR 3' CONDUIT, SUPPORTS @ 6'-0" OC MAX, MAX WEIGHT PER CONNECTION IS 50LBS.
 - FOR 4" CONDUIT, SUPPORTS @ 4'-0" OC MAX, MAX WEIGHT PER CONNECTION IS 55LBS.

3 CONDUIT TO WALL DETAIL

NO SCALE

SHEET INDEX

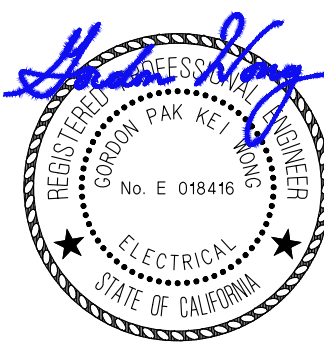
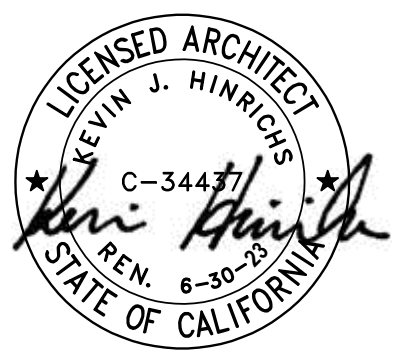
SHEET	DESCRIPTION
E-001	SYMBOLS LIST, ABBREVIATIONS, DETAIL
E-101	OVERALL GROUND AND FIRST FLOOR PLAN - ELECTRICAL
E-201	ENLARGED FIRST FLOOR PLAN - DEMOLITION AND NEW ELECTRICAL
E-301	ONE LINE DIAGRAM, PANEL SCHEDULES, DETAILS
E-401	SPECIFICATIONS



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300 27th Street #201
Oakland, CA 94612
510.775.3636

Project Number G219 Contact Miguel

KEYPLAN

AGENCY APPROVAL

REVISION SCHEDULE
NO. REVISION NAME DATE

PROJECT INFORMATION
PCCD
BCC ENTRY DOOR REPLACEMENT

FACILITY NAME: BERKELEY CITY COLLEGE
FACILITY ADDRESS: 2050 CENTER ST, BERKELEY, CA 94704
UNIVERSITY PROJECT NUMBER:
AUTHORITY HAVING JURISDICTION: DSA
ARCHITECT PROJECT NO.: 6271.100

SHEET TITLE DATE: 10/21/2021

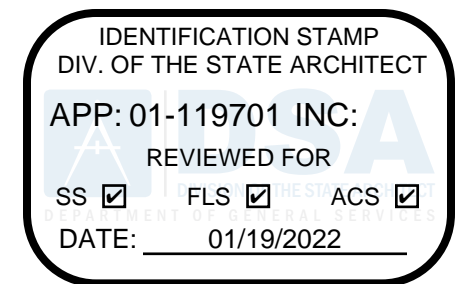
**SYMBOLS LIST,
ABBREVIATIONS,
DETAILS**

SHEET NUMBER SCALE: As indicated

E-001

GENERAL NOTES

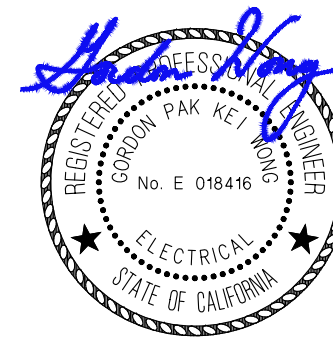
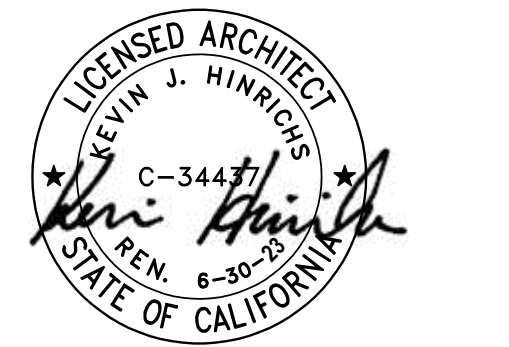
- SEE SHEET E-201 FOR ADDITIONAL WORK.
- CONTRACTOR SHALL USE THIS CONDUIT ROUTING AS A GUIDELINE ONLY. VERIFY CONDITIONS PRIOR TO INSTALLATION.
- WHERE CONDUIT IS NOT CONCEALED ABOVE CEILING, CONTRACTOR SHALL PAINT CONDUIT TO MATCH (E) SURFACE.



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KEY PLAN

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REVISION SCHEDULE
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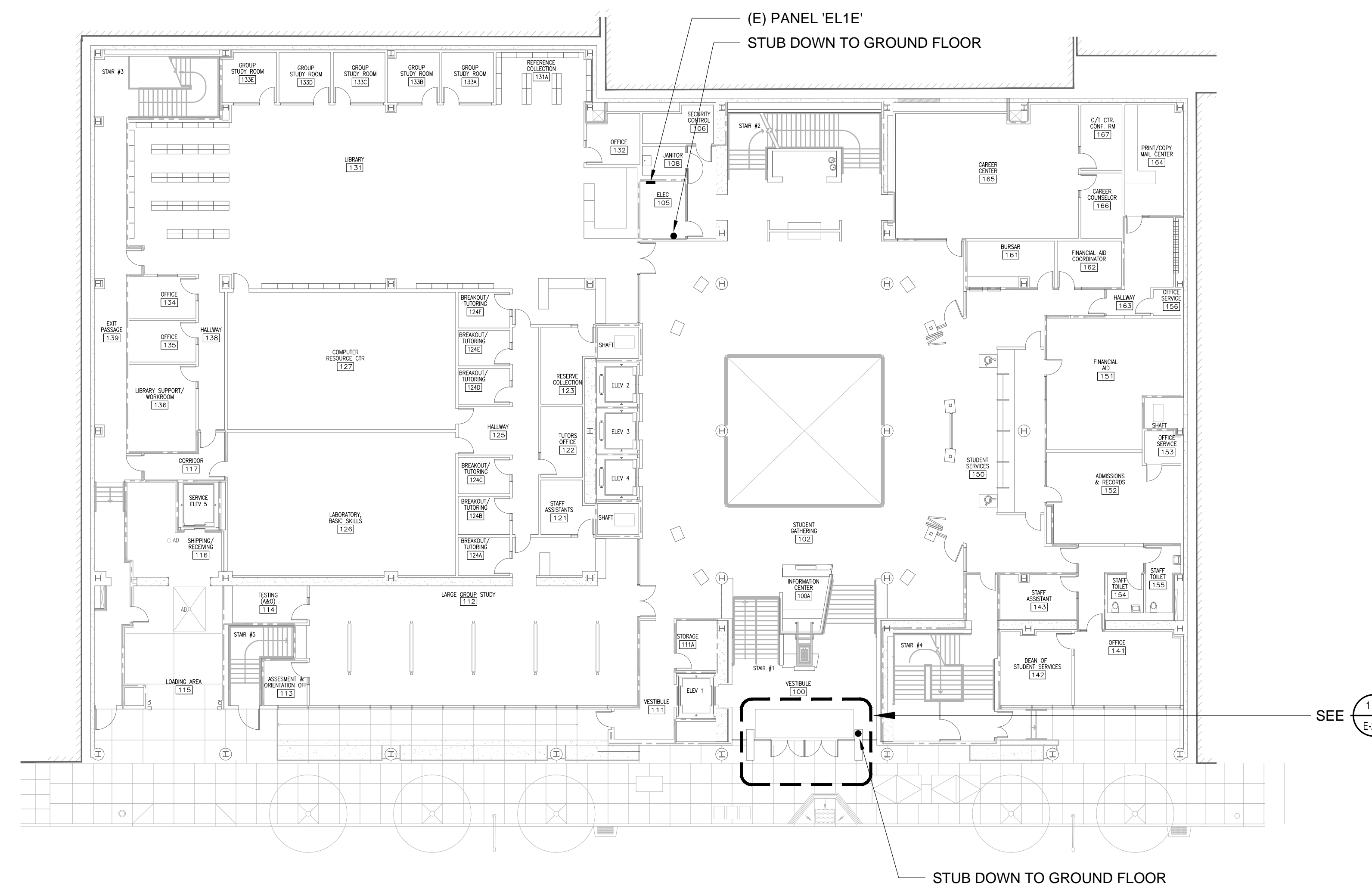
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UNIVERSITY PROJECT NUMBER:
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ARCHITECT PROJECT NO.: 6271.100

SHEET TITLE DATE: 10/21/2021

OVERALL GROUND AND FIRST FLOOR PLAN - ELECTRICAL

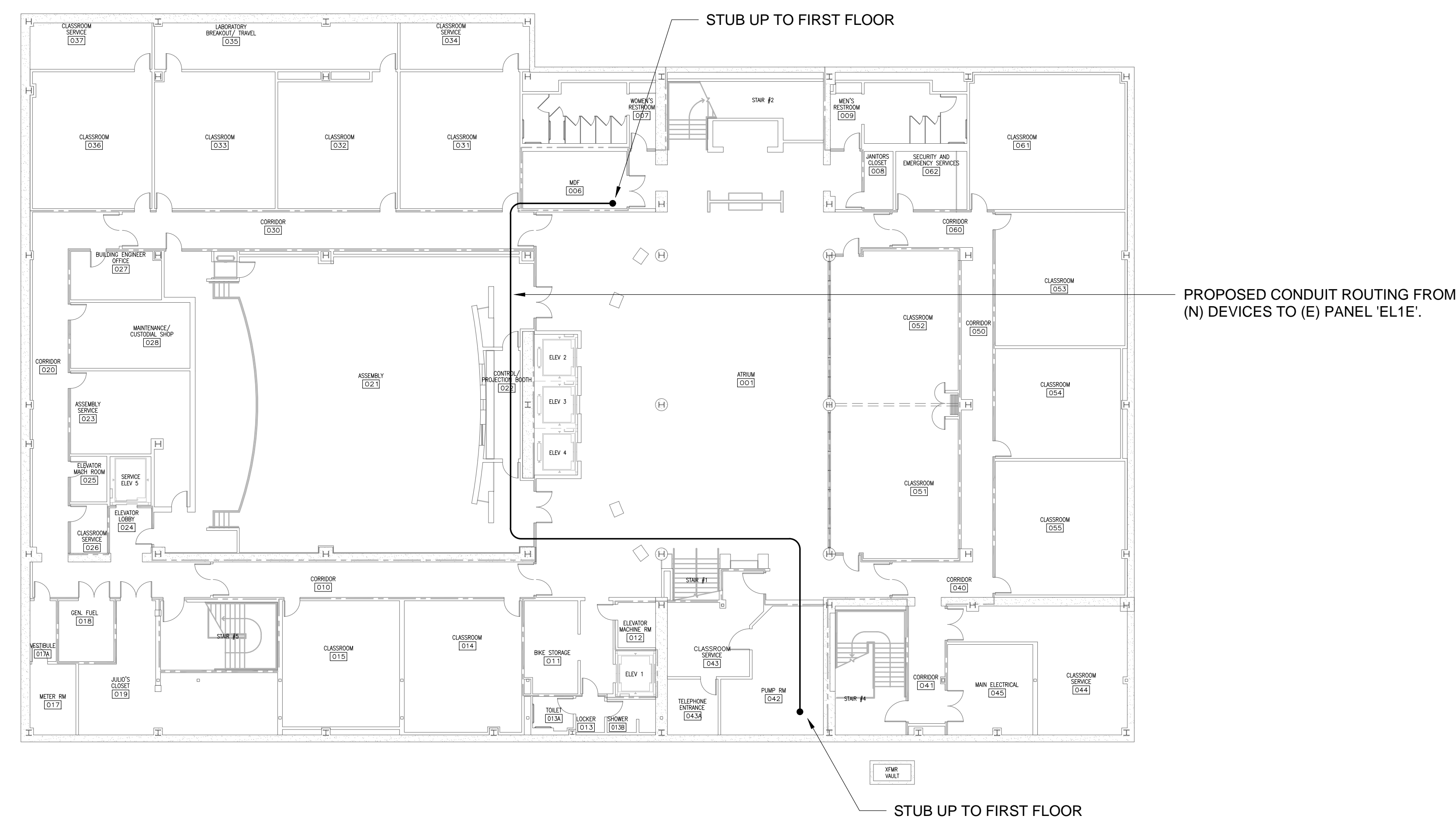
SHEET NUMBER SCALE: As indicated

E-101



1 OVERALL FIRST FLOOR PLAN - ELECTRICAL

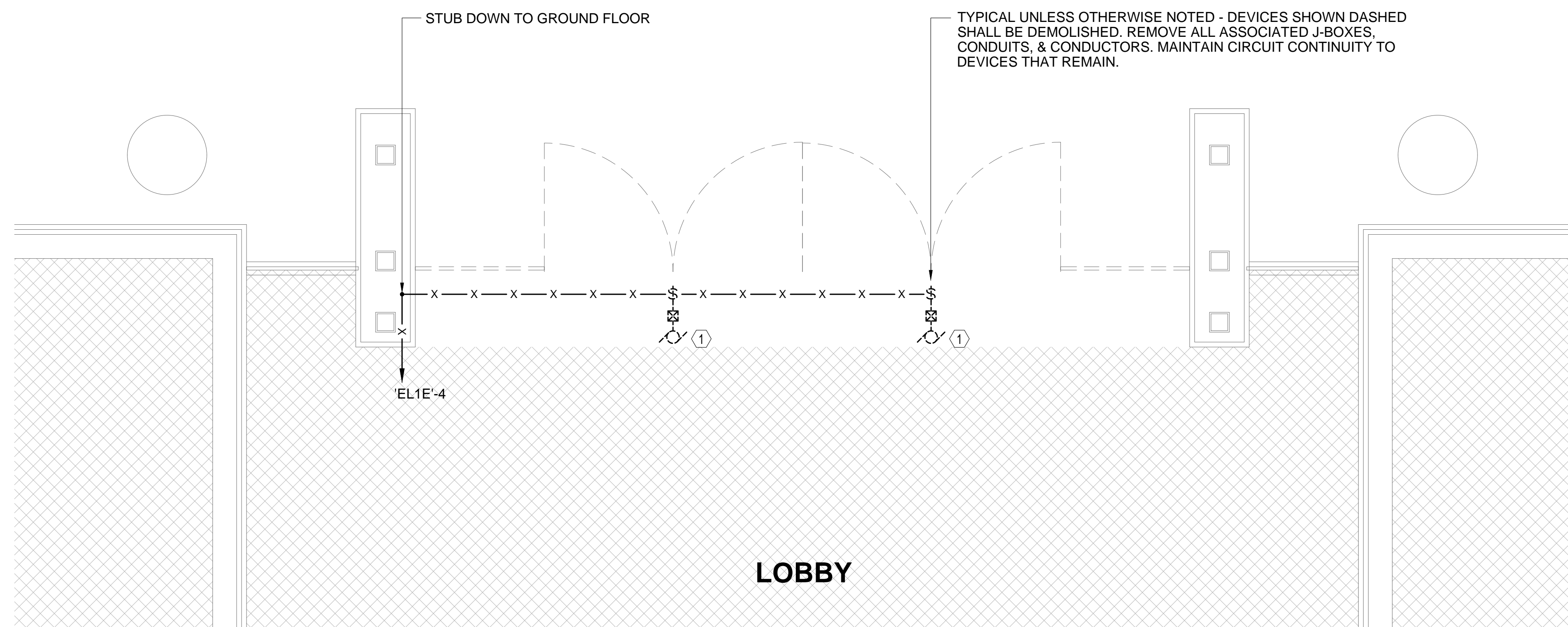
SCALE: 1/16" = 1'-0"



2 OVERALL GROUND FLOOR PLAN - ELECTRICAL

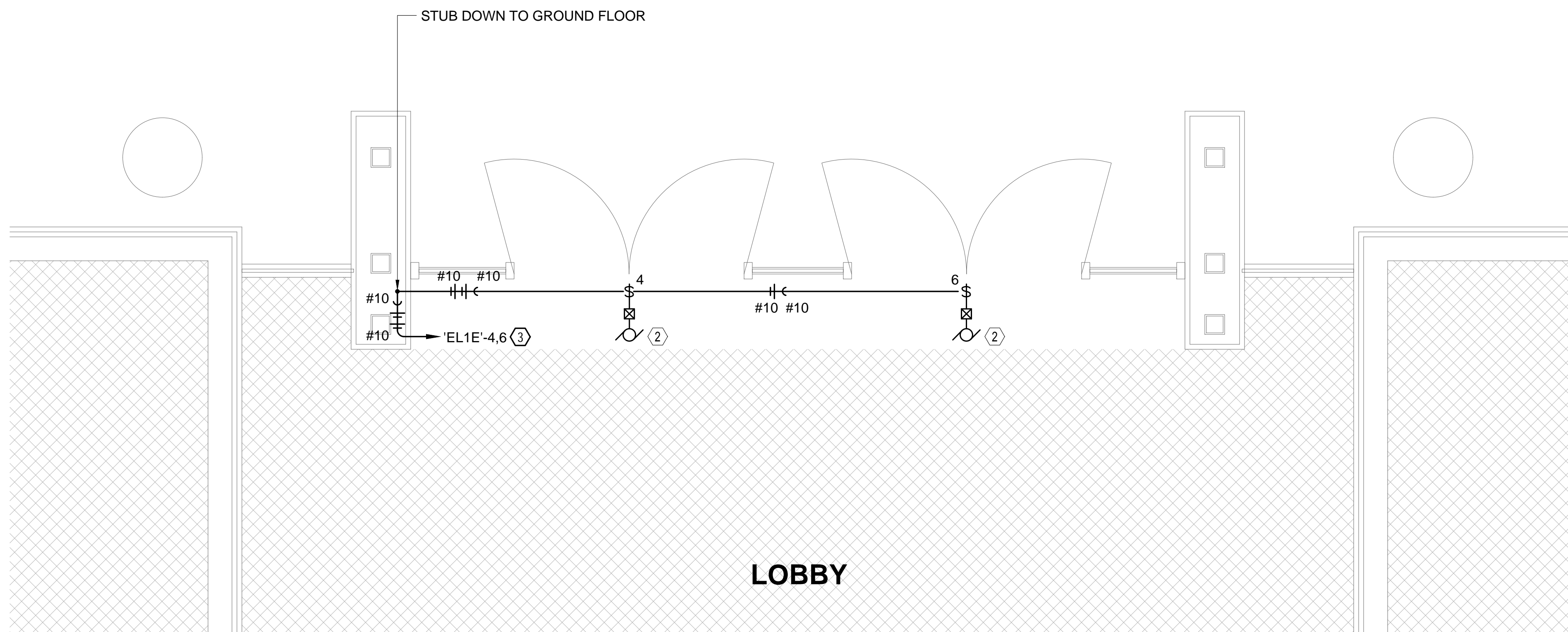
SCALE: 1/16" = 1'-0"

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1 ENLARGED FIRST FLOOR - DEMOLITION ELECTRICAL

SCALE: 1/2" = 1'-0"



2 ENLARGED FIRST FLOOR - NEW ELECTRICAL

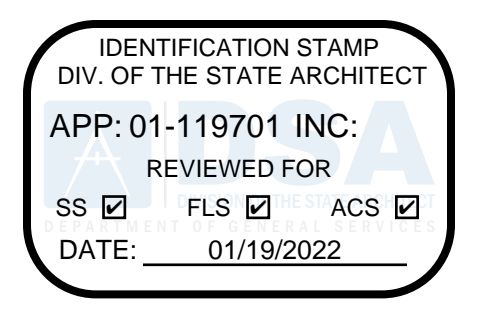
SCALE: 1/2" = 1'-0"

GENERAL NOTES

- UNLESS OTHERWISE NOTED, ALL DEVICES ARE NEW.
- CIRCUITING OF DEVICES HAS THE PANEL PREPARED TO DISAGGREGATE LOADS AS REQUIRED BY 2016 TITLE 24 PART 6, SECTION 130.5(b). CONTRACTOR SHALL NOT DEVIATE FROM INSTALLING DEVICES ON CIRCUITS SHOWN WITHOUT NOTIFICATION TO ENGINEER HOW COMPLIANCE WILL BE ACHIEVED.
- CIRCUITING OF DEVICES TAKES INTO ACCOUNT VOLTAGE DROP. ALL CIRCUITING SHOWN HAS A MAXIMUM 3% VOLTAGE DROP PER 2016 TITLE 24 PART 6, SECTION 130.5(c).
- SEE SHEET E-101 FOR ADDITIONAL WORK.

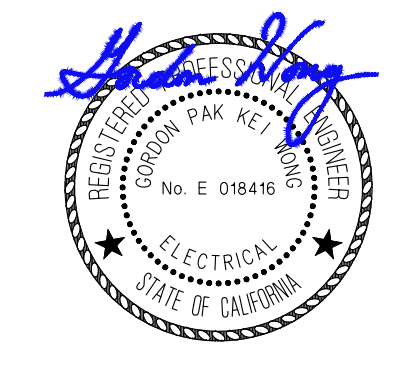
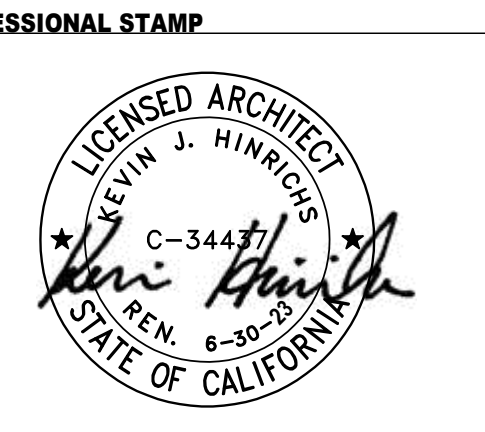
NUMBERED NOTES

- (D) AUTODOOR OPENER, 0.50 KVA, 120V, 1PH.
- (N) AUTODOOR OPENER, 0.70 KVA, 120V, 1PH.
- CONNECT TO (E) SPARE 20A/1P CIRCUIT BREAKER.



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FACILITY ADDRESS: 2050 CENTER ST, BERKELEY, CA 94704
UNIVERSITY PROJECT NUMBER:
AUTHORITY HAVING JURISDICTION: DSA
ARCHITECT PROJECT NO.: 6271.100

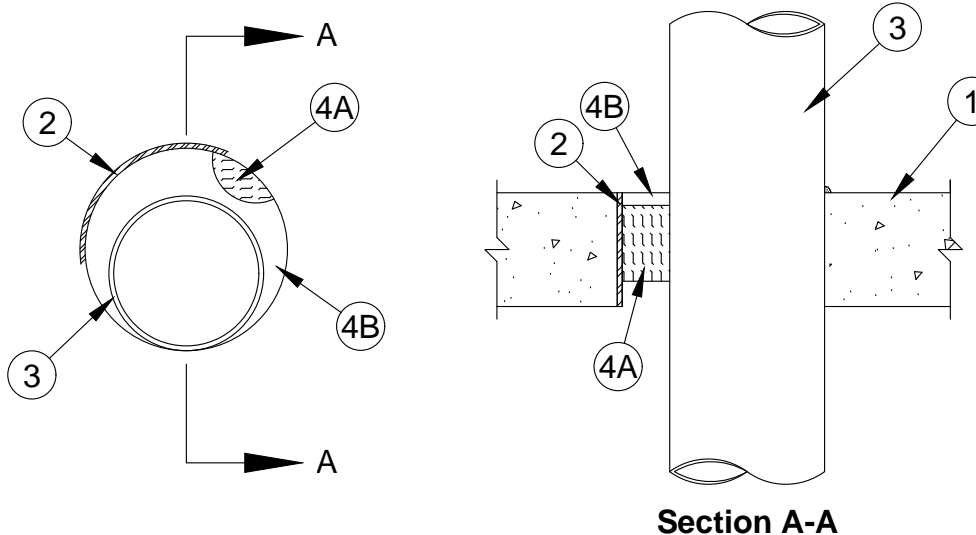
SHEET TITLE DATE: 10/21/2021

**ENLARGED FIRST FLOOR
PLAN - DEMOLITION AND
NEW ELECTRICAL**

SHEET NUMBER SCALE: As indicated

E-201

System No. C-AJ-1353	
ANSI/UL1479 (ASTM E814)	CAN/ULC S115
F Rating - 3 Hr	F Rating - 3 Hr
T Rating - 0 Hr	FT Rating - 0 Hr
L Rating At Ambient - Less Than 1 CFM/sq ft	FH Rating - 3 Hr
L Rating At 400 F - Less Than 1 CFM/sq ft	FTH Rating - 0 Hr
	L Rating At Ambient - Less Than 1 CFM/sq ft
	L Rating At 400 F - Less Than 1 CFM/sq ft



- Floor or Wall Assembly** - Lightweight or normal weight (100-150 pcf or 1600-2400 kg/m³) concrete floor or wall. Min thickness of concrete is shown in table in Item 4B. Floor may also be constructed of any min 6 in. (152 mm) thick hollow-core precast concrete units. Wall may also be constructed of any UL Classified Concrete Blocks*. Max diam of opening is 14 in. (356 mm). Max diam of opening in floors constructed of hollow-core is 7 in. (178 mm). See Concrete Blocks (CAZT) or Precast Concrete Units (CFTV) categories in the Fire Resistance Directory for names of manufacturers.
- Steel Sleeve** - (Optional) - Nom 14 in. (356 mm) diam (or smaller) Schedule 10 (or heavier) steel pipe or No. 26 ga (0.022 in. or 0.56 mm thick) sheet steel sleeve with square anchor flange spot welded to the sleeve at approx mid-height. Sleeve cast or grouted in place flush with floor or wall surfaces. Steel pipe sleeve may project a max of 2 in. (51 mm) beyond the floor or wall surfaces.
- Through Penetrant** - One metallic pipe, conduit or tube to be installed concentrically or eccentrically within the firestop system. The annular space between the pipe, conduit or tube and the periphery of the opening shall be min 0 in. (point contact). The max annular space is 1 in. or 2 in. (25 or 51 mm) as shown in the table in Item 4B. Pipe, conduit or tube to be rigidly supported on both sides of the floor or wall assembly. The following types and sizes of metallic pipes, conduits and tubes may be used:
 - Steel Pipe** - Nom 12 in. (305 mm) diam (or smaller) Schedule 5 (or heavier) steel pipe.
 - Iron Pipe** - Nom 12 in. (305 mm) diam (or smaller) cast or ductile iron pipe.
 - Conduit** - Nom 6 in. (152 mm) diam (or smaller) rigid steel conduit, nom 4 in. (102 mm) diam (or smaller) steel electrical metallic tubing (EMT) or nom 4 in. (102 mm) diam (or smaller) flexible steel conduit.
 - Copper Pipe** - Nom 4 in. (102 mm) diam (or smaller) Regular (or heavier) copper pipe.
 - Copper Tube** - Nom 4 in. (102 mm) diam (or smaller) Regular L (or heavier) copper tube.

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3A. **Through Penetrating Product - Flexible Metal Piping** - An alternate to Item 3, one nom 2 in. (51 mm) diam (or smaller) flexible steel pipe (with or without plastic jacketing) to be installed either concentrically or eccentrically within the firestop system. The annular space between the pipe, conduit or tube and the periphery of the opening shall be min 0 in. (0 mm or point contact). The max annular space is 1 or 2 in. (25 or 51 mm) as shown in the table in Item 4B. Pipe to be rigidly supported on both sides of the floor or wall assembly.

OMEGA FLEX INC
GASTITE, DIV OF TITFLEX
WARD MFG L L C

4. **Firestop System** - The firestop system shall consist of the following:

- Packing Material** - When required as shown in the table in Item 4B, min 4 pcf (64 kg/m³) mineral wool batt insulation compressed and tightly packed to min 2-1/4 in. (57 mm) thickness. Packing material recessed from top surface of floor or both surfaces of wall as required to accommodate fill material (Item 4B). When packing material is shown as being optional, mineral wool or glass fiber insulation or polyethylene foam backer rod may be used as a permanent form to facilitate installation of the fill material. In floors constructed of hollow-core precast concrete units, packing material to be recessed from both top and bottom surfaces of floor, as required to accommodate fill material (Item 4B). When steel sleeve projects from top of floor or from both sides of wall, the thickness of mineral wool batt packing material should be increased by an amount equal to the distance that the sleeve extends past the floor or wall surface.
- Fill, Void or Cavity Material - Sealant** - Fill material applied within annulus, flush with top surface of floor assembly or top edge of steel sleeve. In walls and in floors constructed from hollow core precast concrete units, fill material applied symmetrically on both sides of assembly flush with wall/floor surfaces or both ends of steel sleeve. At point contact location, apply min 1/4 in. (6 mm) diam bead of fill material at pipe/concrete interface or pipe/steel sleeve interface on top surface of floor or both surfaces of wall or precast concrete units. The fill material thickness shall be as specified in the following table:

Min Concrete Thickness in. (mm)	Steel Sleeve	Max Annular Space, in. (mm)	Packing Material	Min Fill Material Thickness in. (mm)	F Rating
2-1/2 (64)	Optional	2 (51)	Required	1/4 (6)	3 hr
4-1/2 (114)	Optional	1 (25)	Optional	1/2 (13)	2 hr

SPECIFIED TECHNOLOGIES INC - SpecSeal LCI Sealant
 * Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.

FIRE RATED FLOOR PENETRATION SYSTEM C-AJ-1353

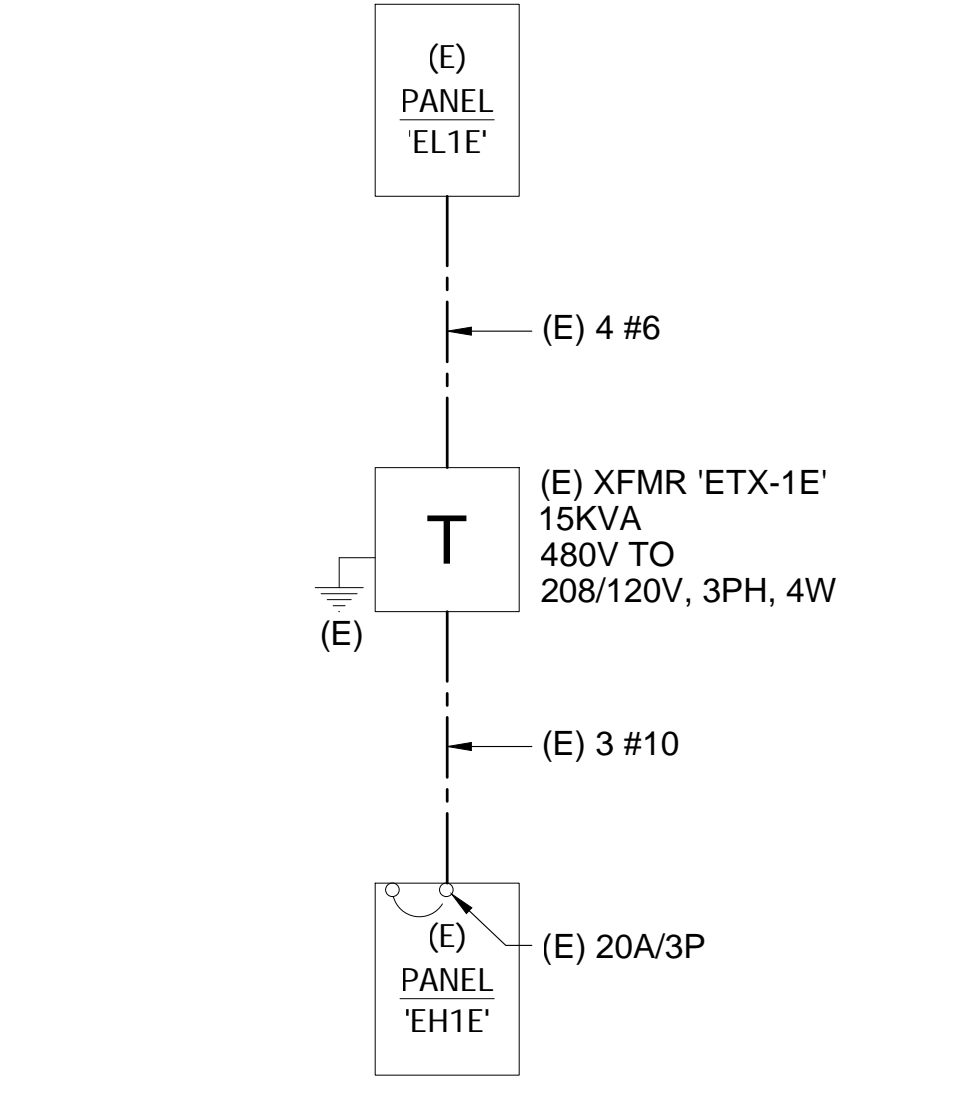
NO SCALE

(E) PANEL 'EL1E'	SECTION 1 OF 1		SERVING		EMERGENCY		BUS RATING: 125 AMP		THREE PHASE		VOLTAGE					
	LOCATION:	ELECT RM	MOUNTING:	FLUSH	X	FLUSH	X	MAIN BREAKER:	4-WIRE	208/120Y						
PANEL A.I.C.	10,000		X	SURFACE				MAIN LUGS ONLY								
								FED-THRU LUGS								
LOAD DESCRIPTION	CONT.	RECP.	MOTOR	NON	AMP	POLE	PKT #	PH	PKT #	C. B. POLE	AMP	CONT.	RECP.	MOTOR	NON	LOAD DESCRIPTION
(E) FIRE ALARM					0.40	20	1	1	A	2	1	20	1.00			(E) LTG-ASSEMBLY
(E) FIRE ALARM					0.40	20	1	3	B	4	1	20				(E) FRONT DOOR
(E) EMCS-1					0.20	20	1	5	C	6	1	20				(E) FRONT DOOR
(E) EMCS-2					0.20	20	1	7	A	8	1	20			0.80	(E) FSDS
(E) FIRE ALARM					0.40	20	1	9	B	10	1	20			0.80	(E) FSDS
(E) EMOS-3					0.20	20	1	11	C	12	1	20			0.80	(E) FSDS
(E) EMCS-G1					0.20	20	1	13	A	14	1	20			0.10	(E) FUEL OFF PANEL
(E) FIRE ALARM					0.40	20	1	15	B	16	1	20			1.50	(E) FUEL TRANSFER STATION
(E) SPARE						20	1	17	C	18	1	20			0.20	(E) DIESEL PUMP ROOM
(E) SPARE						20	1	19	A	20	1	20				(E) SPARE
(E) SPARE						20	1	21	B	22	1	20			0.10	(E) MAIN POWER CLOCK
(E) SPARE						20	1	23	C	24	1	20				(E) SPARE
(E) SPARE						20	1	25	A	26	1	20				(E) SPARE
(E) SPARE						20	1	27	B	28	1	20				(E) SPARE
(E) SPARE						20	1	29	C	30	1	20				(E) SPARE
(E) SPARE						20	1	31	A	32	1	20				(E) SPARE
(E) SPARE						20	1	33	B	34	1	20				(E) SPARE
(E) SPARE						20	1	35	C	36	1	20				(E) SPARE
(E) SPARE						20	1	37	A	38	1	20				(E) SPARE
(E) SPARE						20	1	39	B	40	1	20				(E) SPARE
(E) SPARE						20	1	41	C	42	1	20				(E) SPARE
TOTALS	0.00	0.00	0.00	2.40								1.00	0.00	1.40	4.30	TOTALS
TOTAL CONTINUOUS LOAD @ 125%:										1.25 KVA						
TOTAL RECEPTACLE LOAD, 100% FOR FIRST 10KVA, & 50% FOR REMAINDER:										0.00 KVA						
TOTAL NONCONTINUOUS LOAD:										6.70 KVA						
TOTAL MOTOR LOAD:										1.40 KVA						
LARGEST MOTOR @ 25%:										0.18 KVA						
TOTAL DEMAND LOA	9.53 KVA	CONNECTED KVA TOTAL/PHASE		A	B	C	MIN. FEEDER CAPACITY		9.53 KVA	26.44 AMP						
				2.70	4.30	2.10										

(E) PANEL 'EH1E'	SECTION 1 OF 1		SERVING		EMERGENCY		BUS RATING: 225 AMP		THREE PHASE		VOLTAGE					
	LOCATION:	ELECT ROOM	MOUNTING:	FLUSH	X	FLUSH	X	225-AMP MAIN BREAKER	4-WIRE	480/277Y						
PANEL A.I.C.	14,000		X	SURFACE				MAIN LUGS ONLY								
								FED-THRU LUGS								
LOAD DESCRIPTION	CONT.	RECP.	MOTOR	NON	AMP	POLE	PKT #	PH	PKT #	C. B. POLE	AMP	CONT.	RECP.	MOTOR	NON	LOAD DESCRIPTION
(E) LTG. GROUND FLR					3.20	20	1	1	A	2	1	20				(E) SPARE
(E) LTG. 102 CONV					2.80	20	1	3	B	4	1	20				(E) SPARE
(E) LTG. STAIR #4					1.79	20	1	5	C	6	1	20				(E) SPARE
(E) LTG. STAIR #2,3					2.21	20	1	7	A	8	1	20				(E) SPARE
(E) LTG. FIRST FLR					3.00	20	1	9	B	10	1	20				(E) SPARE
(E) LTG. SECOND FLR					3.00	20	1	11	C	12	1	20				(E) SPARE
(E) SPARE						20	1	13	A	14	1	20				(E) SPARE
(E) SPARE						20	1	15	B	16	1	20				(E) SPARE
(E) SPARE						20	1	17	C	18	1	20				(E) SPARE
(E) SPARE						20	1	19	A	20	1	20				(E) SPARE
(E) SPARE						20	1	21	B	22	1	20				(E) SPARE
(E) SPARE						20	1	23	C	24	1	20				(E) SPARE
(E) SPARE						20	1	25	A	26	1	20				(E) SPARE
(E) SPARE						20	1	27	B	28	1	20				(E) SPARE
(E) SPARE						20	1	29	C	30	1	20				(E) SPARE
(E) SPARE						20	1	31	A	32	1	20				(E) SPARE
(E) SPARE						20	1	33	B	34	1	20				(E) SPARE
(E) SPARE						20	1	35	C	36	1	20				(E) SPARE
(E) SPARE						20	1	37	A	38	1	20				(E) SPARE
(E) SPARE						20	1	39	B	40	1	20				(E) SPARE
(E) SPARE						20	1	41	C	42	1	20				(E) SPARE
TOTALS	17.00	0.00	0.00	1.70								0.00	0.00	0.00	0.00	TOTALS
TOTAL CONTINUOUS LOAD @ 125%:										21.25 KVA						
TOTAL RECEPTACLE LOAD, 100% FOR FIRST 10KVA, & 50% FOR REMAINDER:										0.00 KVA						
TOTAL NONCONTINUOUS LOAD:										6.70 KVA						
TOTAL MOTOR LOAD:										1.40 KVA						
LARGEST MOTOR @ 25%:										0.00 KVA						
TOTAL DEMAND LOAD:	29.35 KVA	CONNECTED KVA TOTAL/PHASE		A	B	C	MINIMUM FEEDER CAPACITY:		29.35 KVA	35.30 AMP						
				8.11	10.10	6.89										

PANEL SCHEDULE NOTES

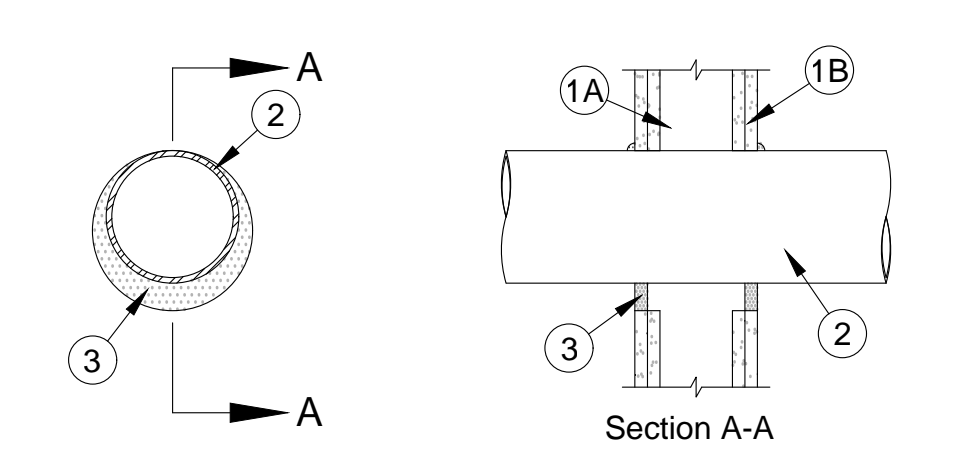
- ALL CIRCUITS INDICATED "LIGHT" ON PANEL SCHEDULES ARE EXISTING TO REMAIN AND HAVE NOT BEEN MODIFIED AS PART OF THIS PROJECT.
- ALL CIRCUITS INDICATED "BOLD" ON PANEL SCHEDULES HAVE BEEN MODIFIED, ALTERED, OR ADDED AS PART OF THIS PROJECT.
- PROVIDE UPDATED 'TYPEWRITTEN' PANEL INDEX.
- PROVIDE BLANK COVER PLATES OVER ANY EXPOSED CIRCUIT BREAKER SPACE THAT IS EXPOSED.
- UPON OPENING EXISTING PANELS, TURN ANY CIRCUIT BREAKERS WITH NO CONDUCTORS OR NOT CONNECTED TO A LOAD INTO THE "OFF" POSITION AND UPDATE PANEL SCHEDULE.



ONE-LINE DIAGRAM

SCALE: NONE

System No. W-L-1049	
ANSI/UL1479 (ASTM E814)	CAN/ULC S115
F Ratings - 1 and 2 Hr (See Item 1)	F Rating - 1 and 2 Hr (See Item 1)
T Rating - 0 Hr	FT Rating - 0 Hr
L Rating At Ambient - Less Than 1 CFM/sq ft	FH Rating - 1 and 2 Hr (See Item 1)
L Rating At 400 F - Less Than 1 CFM/sq ft	FTH Rating - 0 Hr
	L Rating At Ambient - Less Than 1 CFM/sq ft
	L Rating At 400 F - Less Than 1 CFM/sq ft



- Wall Assembly** - The 1 or 2 hr fire-rated gypsum wallboard/stud wall assembly shall be constructed of the materials and in the manner described in the individual U300 or U400 Series Wall or Partition Design in the UL Fire Resistance Directory and shall include the following construction features:
 - Studs** - Wall framing may consist of either wood studs or steel channel studs. Wood studs to consist of nom 2 by 4 in. (51 by 102 mm) lumber spaced 16 in. (406 mm) OC. Steel studs to be min 3-5/8 x 1-1/2 in. (93 mm) wide and spaced max 24 in. (610 mm) OC. When steel studs are used and the diam of opening exceeds the width of stud cavity, the opening shall be framed on all sides using lengths of steel stud installed between the vertical studs and screw-attached to the steel studs at each end. The framed opening in the wall shall be 4 to 6 in. (102 to 152 mm) wider and 4 to 6 in. (102 to 152 mm) higher than the diam of the penetrating item such that, when the penetrating item is installed in the opening, a 2 to 3 in. (51 to 76 mm) clearance is present between the penetrating item and the framing on all four sides.
 - Gypsum Board** - 5/8 in. (16 mm) thick, 4 ft (1.22 m) wide with square or tapered edges. The gypsum board type, thickness, number of layers, fastener type and sheet orientation shall be as specified in the individual U300 or U400 Series Design in the UL Fire Resistance Directory. Max diam of opening is 26 in. (660 mm) for steel stud walls. Max diam of opening is 14-1/2 in. (368 mm) for wood stud walls. The hourly F and FH Ratings of the firestop system are equal to the hourly fire rating of the wall assembly in which it is installed.
- Metallic Sleeve** - (Optional, Not Shown) - Cylindrical sleeve fabricated from min 0.016 in. (0.41 mm) to max 0.105 in. (2.7 mm) thick sheet steel. Length of steel sleeve to be equal to the thickness of wall. Longitudinal seam of sleeve welded or overlapped min 1 in. (25 mm). The ends of the steel sleeve shall be flush or recessed max 1/4 in. (6 mm) from wall surfaces.

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2. **Through Penetrant** - One metallic pipe, conduit or tubing to be installed either concentrically or eccentrically within the firestop system. The annular space between the pipe, conduit or tubing and periphery of opening shall be min 0 in. (0 mm, point contact) to max 2 in. (51 mm). For maximum 16 in. (406 mm) diam (or smaller) pipes, annular space shall be min 0 in. (0 mm, point contact) to max 2 in. (51 mm). Pipe, conduit or tubing to be rigidly supported on both sides of wall assembly. The following types and sizes of metallic pipes, conduits or tubing may be used:

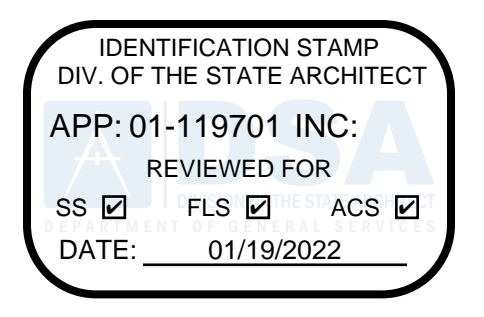
- Steel Pipe** - Nom 36 in. (914 mm) diam (or smaller) Schedule 10 (or heavier) steel pipe.
- Iron Pipe** - Nom 36 in. (914 mm) diam (or smaller) cast or ductile iron pipe.
- Conduit** - Nom 4 in. (102 mm) diam (or smaller) steel electrical metallic tubing, nom 6 in. (152 mm) diam (or smaller) steel conduit or nom 1 in. (25 mm) diam (or smaller) flexible steel conduit.
- Copper Tubing** - Nom 6 in. (152 mm) diam (or smaller) Type L (or heavier) copper tubing.

SPECIFIED TECHNOLOGIES INC - SpecSeal Series SSS Sealant or SpecSeal LCI Sealant
 * Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.

FIRE RATED WALL PENETRATION SYSTEM W-L-1049

NO SCALE

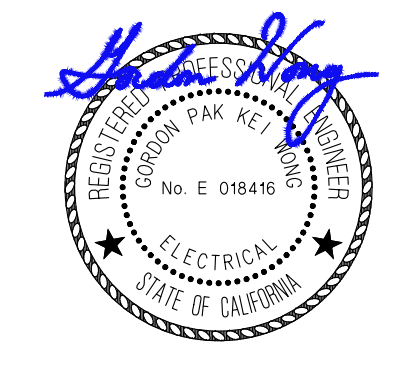
SECTION 26 00 00 - ELECTRICAL WORK				
PART 1 GENERAL				
1.01 CONDITIONS:	A. The Requirements of General Conditions and Special Conditions apply to Work of this Section as if fully repeated herein.	2.05 ELECTRICAL METALLIC TUBING:	3.09 DEMOLITION:	3.12 INSTALLATION - RACEWAY:
1.02 WORK INCLUDED:	A. Provide all labor, materials, tools, and equipment necessary for the complete in-place installation of all electrical and low voltage items complete as shown on drawings and as specified. B. Provide a complete working installation of all electrical and low voltage systems as shown of drawings or as specified. C. Complete new power distribution throughout project including circuit breaker, conduit, wire, pull boxes, junction boxes and miscellaneous materials. D. Electrical connections to equipment furnished and installed under other sections. E. Make electrical connections for equipment furnished as part of Work of other Sections. F. Include sealing and fireproofing of conduits, cable trays, cables etc. G. Electrical products are anchored and fastened to building elements and finishes as follows: 1. Concrete Structural Elements: Provide expansion anchors and powder actuated anchors. 2. Steel Structural Elements: Provide beam clamps and spring steel clips. 3. Sheet Metal: Provide sheet metal screws. 4. Wood Elements: Provide wood screws. J. Electrical components are identified as follows: 1. Nameplate for each electrical equipment enclosure. 2. Label for identification of receptacles, light switches, and control device stations. 3. Wire marker for each conductor at panel boards' gutters, pull boxes, outlet and junction boxes, and each load connection. 4. Permanent ink felt tip marker on cover indicating panel and circuit for junction boxes located above suspended ceilings and below ceilings in non-public areas.	A. Product Description: ANSI C80.3; galvanized tubing. B. Fittings and Conduit Bodies: NEMA FB 1; steel couplings and connectors. Box connectors shall have with insulated throat. Set screw type couplings.	A. Demolition Drawings are based on casual field observation and/or existing record documents. Report discrepancies to Owner and Architect/Engineer before disturbing existing installation. B. Remove, relocate, and extend existing installations as necessary, to accommodate new construction and to meet all requirements of these specifications. Extend existing installations using materials and methods compatible with existing electrical installations, or as specified. C. Remove abandoned wiring to source of supply. D. Remove exposed abandoned conduit and abandoned conduit above accessible ceiling finishes, unless noted otherwise on drawings. Cut conduit flush with walls and floors, and patch surfaces. If certain conduits and boxes are abandoned but not scheduled for removal, they shall be shown on the "As Built Drawings". E. Disconnect abandoned outlets and remove devices. Remove abandoned outlets if conduit and wiring servicing them is abandoned and removed. Provide blank cover for abandoned outlets which are not removed. F. Disconnect and remove electrical devices and equipment serving utilization equipment that has been removed. G. Disconnect and remove abandoned luminaires. Remove brackets, stems, hangers, and other accessories. H. Provide revised type circuit directory in panelboards that have circuits removed. I. Repair adjacent construction and finishes damaged during demolition and extension work. J. Maintain access to existing electrical installations which remain active. Modify installation or provide access panel as appropriate. K. Verify supplemental support for conduits that are routed through demolition area, and are to remain. Supplemental support shall be added so that the conduit meets the support requirements. L. Remove conduit, wire, boxes, and fastening devices to avoid any interference with new installation. M. Disconnect electrical systems in walls, floors, and ceilings scheduled for removal. N. Remaining Circuits and Equipment: Reinstall existing electrical installations disturbed. Certain existing electrical installations may be located in walls, ceilings or floors that are to be removed and are essential for the operation of other remaining installations. Where this condition occurs provide a new extension of original circuits, raceways, equipment and outlets to retain service continuity. Installations shall be concealed in finished areas. O. Reconnect equipment being disturbed by renovation work and required for continue service to be done in orderly, workmanlike manner and present neat appearing installation when completed. P. Disconnect or shut off service to areas where electrical work is to be removed. Remove electrical fixtures, equipment, and related switches, outlets, conduit and wiring which are not part of final project. Q. Install temporary wiring and connections to maintain existing systems in service during construction. R. Remove, relocate, and extend existing installations to accommodate new construction. S. Repair adjacent construction and finishes damaged during demolition and extension work. T. Remove exposed abandoned grounding and bonding components, fasteners and supports, and electrical identification components, including abandoned components above accessible ceiling finishes. Cut embedded support elements flush with walls and floors. U. Clean and repair existing equipment to remain and/or to be reinstalled. V. Protect and retain power to existing active equipment remaining. W. Cap abandoned empty conduit at both ends.	A. Raceway routing is shown in approximate locations unless dimensioned. Route to complete wiring system. B. Do not install PVC conduit above ground. C. Conduits installed on top of roof or covered walk structure (on top or below) shall be rigid steel or IMC. D. All Conduits Shall Be Rigid Steel or IMC, except EMT may be used at the following locations: 1. In dry locations in furred spaces. 2. In partitions other than concrete or solid masonry. 3. In exposed (above eight feet (8') excluding top of roof or covered walk structure (on top or below)) interior/ exterior locations and in electrical/mechanical/ communications rooms made up with watertight compression type connectors and couplings. Connectors to outlets shall be insulated throat type with integral non-removable plastic insulator lining. E. Arrange raceway supports to prevent misalignment during wiring installation. F. Support raceway using coated steel or malleable iron straps, lay-in adjustable hangers, clevis hangers, and split hangers. G. Group related raceway; support using conduit rack. Construct rack using steel channel; provide space on each for 25 percent additional raceways. H. Do not support raceway with wire or perforated pipe straps. Remove wire used for temporary supports. I. Do not attach raceway to ceiling support wires or other piping systems. J. Construct wireway supports from steel channel. K. Route exposed raceway parallel and perpendicular to walls. L. Route raceway installed above accessible ceilings parallel and perpendicular to walls. M. Maintain clearance between raceway and piping for maintenance purposes. N. Maintain 12-inch clearance between raceway and surfaces with temperatures exceeding 104 degrees F. O. Cut conduit square using saw or pipe cutter; de-burr cut ends. P. Bring conduit to shoulder of fittings; fasten securely. Q. Install conduit hubs to fasten conduit to sheet metal boxes in damp and wet locations and to cast boxes. R. Install no more than equivalent of three 90-degree bends between boxes. Install conduit bodies to make sharp changes in direction, as around beams. Install factory elbows for bends in metal conduit larger than 2-inch size. S. Avoid moisture traps; install junction box with drain fitting at low points in conduit system. T. Install fittings to accommodate expansion and deflection where raceway crosses seismic and expansion joints. U. Install suitable pull string or cord in each empty raceway except sleeves and nipples. V. Install suitable caps to protect installed conduit against entrance of dirt and moisture. W. Surface Raceway: Install flat-head screws, clips, and straps to fasten raceway channel to surfaces; mount plumb and level. Install insulating bushings and inserts at connectors to outlets and corner fittings. X. Close ends and unused openings in wireway.
1.03 SYSTEM DESCRIPTION:	A. Raceway and boxes located as indicated on Drawings, and at other locations required for splices, taps, wire pulling, equipment connections, and compliance with regulatory requirements. Raceway and boxes are shown in approximate locations unless dimensioned. Provide raceway to complete wiring system. B. Conductor sizes are based on copper unless indicated as aluminum or "AL". C. When aluminum conductor is substituted for copper conductor, size to match circuit requirements, terminations, conductor ampacity and voltage drop. Contractor shall be responsible for verifying maximum number of aluminum conductors for substituted copper conductors in specified conduit. D. Product requirements: Provide products as follows: 1. Solid conductor for feeders and branch circuits 10 AWG and smaller. 2. Stranded conductors for control circuits. 3. Conductor not smaller than 12 AWG for power and lighting circuits. 4. Conductor not smaller than 16 AWG for control circuits. 5. Increase wire size in branch circuits to limit voltage drop to a maximum of 3 percent. 6. 10 AWG conductors for 20 ampere or larger as designated on plans for 120 volt branch circuit home runs longer than 75 feet. 7. 10 AWG conductors for 20 ampere or larger as designated on plans for 277 volt branch circuit home runs longer than 200 feet. E. Wiring Methods: Provide the following wiring methods: 1. Concealed/Dry Interior Locations: Use only building wire, Type THHN/THWN-2 insulation, in raceway. 2. Exposed Dry Interior Locations: Use only building wire, Type THHN/THWN-2 insulation, in raceway. 3. Above Accessible Ceilings: Use only building wire, Type THHN/THWN-2 insulation, in raceway.	2.06 OUTLET BOXES: A. Sheet Metal Outlet Boxes: NEMA OS 1, galvanized steel. 1. Luminaire and Equipment Supporting Boxes: Rated for weight of equipment supported; furnish 0.50-inch male fixture studs where required. 2. Boxes for shall be 1.5-inch deep by 4-inch square minimum. 3. Boxes for telecommunications outlets shall be 2-1/8-inch deep by 4-11/16-inch square minimum. Provide 1-gang device ring. 2.07 FLASH PROTECTION: A. Electrical equipment including switchboards, panelboards, disconnect switches, etc. which are likely to require examination, adjustment or servicing while energized shall be field marked to warn of potential electric arch flash hazards per CEC Article 110.16. Marking shall be a pre-printed label which references NFPA 70E. 2.08 NAMEPLATES: B. Product Description: Laminated three-layer plastic with engraved letters on contrasting background color. C. Letter Size: 1. 0.125-inch high letters for identifying individual equipment and loads. 2. 0.50-inch high letters for identifying grouped equipment and loads. D. Minimum nameplate thickness: 0.125-inch. 2.09 LABELS: A. Labels: Thermal transfer laminated adhesive tape with 0.125-inch black letters on clear tape cartridge.	PART 3 EXECUTION 3.01 GENERAL: A. Manufacturer's Directions: Follow manufacturer's directions where manufacturers of articles used furnish directions covering points not specified or shown. B. All Work shall be done in orderly, workmanlike manner and present neat appearing installation when completed. 3.02 DRAWINGS AND COORDINATION: A. Examine Drawings and Site; be familiar with types of construction where electrical installation is involved. 1. Work shall be neatly installed in a workmanlike manner in accordance with NECA Standard of Installation. Work shall be coordinated with other trades to avoid conflicts. Clarifications will be made by Engineer and minor adjustments shall be made without additional cost to Owner. B. Layouts of equipment, accessories and wiring systems are diagrammatic (not pictorial), but shall be followed as closely as possible. Drawings and Specifications are for assistance and guidance, and exact locations, distances, levels, etc., will be governed by Site. 3.03 EQUIPMENT INSTALLATION: A. Provide metal backing plates, anchor plates, and similar items that are required for anchorage for the Work of this Section; securely weld or bolt to metal framing. Wood blocking or backing will not be permitted in combination with metal framing. B. Equipment: Accurately set and level, neatly place support and anchor properly. Anchorage shall conform to the requirements of California Building Code. No allowance will be made for negligence to foresee means of placing, installing or supporting equipment in position.	3.10 INSTALLATION - CONDUCTORS: A. Route wire and cable to meet Project conditions. B. Neatly train and lace wiring inside boxes, equipment, and panelboards. C. Identify and color code wire and cable under wire color section. Identify each conductor with its circuit number or other designation indicated. D. Special Techniques - Building Wire in Raceway: 1. Pull conductors into raceway at same time. 2. Install building wire 4 AWG and larger with pulling equipment. E. Special Techniques - Wiring Connections: 1. Clean conductor surfaces before installing lugs and connectors. 2. Make splices, taps, and terminations to carry full ampacity of conductors with no perceptible temperature rise. 3. Tape uninsulated conductors and connectors with electrical tape to 150 percent of insulation rating of conductor. 4. Clean conductor surfaces before installing lugs and connectors. 5. Make splices, taps, and terminations to carry full ampacity of conductors with no perceptible temperature rise. 6. Tape uninsulated conductors and connectors with electrical tape to 150 percent of insulation rating of conductor. 7. Install split bolt connectors for copper conductor splices and taps, 6 AWG and larger. 8. Install solderless pressure connectors with insulating covers for copper conductor splices and taps, 8 AWG and smaller. 9. Install insulated spring wire connectors with plastic caps for copper conductor splices and taps, 10 AWG and smaller. F. Install stranded conductors for branch circuits. Install crimp on fork terminals for device terminations. Do not place bare stranded conductors directly under screws. G. Install terminal lugs on ends of 600-volt wires unless lugs are furnished on connected device, such as circuit breakers. H. Size lugs in accordance with manufacturer's recommendations terminating wire sizes. Install 2-hole type lugs to connect wires 4 AWG and larger to copper bus bars. I. For terminal lugs fastened together such as on motors, transformers, and other apparatus, or when space between studs is small enough that lugs can turn and touch each other, insulate for dielectric strength of 2-1/2 times normal potential of circuit. 3.11 WIRE COLOR: A. General: 1. For wire sizes 10 AWG and smaller, install wire colors in accordance with the following: a. Black, red, and blue for circuits at 120/208 volts single or three phase. 2. For wire sizes 8 AWG and larger, identify wire with colored tape at terminals, splices and boxes. Colors are as follows: a. Black, red, and blue for circuits at 120/208 volts single or three phase. B. Neutral Conductors: White. When two or more neutrals are located in one conduit, individually identify each with proper circuit number. C. Branch Circuit Conductors: Install three or four wire home runs with each phase uniquely color coded. D. Feeder Circuit Conductors: Uniquely color code each phase. E. Ground Conductors: 1. For 6 AWG and smaller: Green. 2. For 4 AWG and larger: Identify with green tape at both ends and visible points including junction boxes.
1.04 DEMOLITION:	A. Removal of existing electrical equipment, wiring, and conduit in areas to be remodeled; removal of designated construction; dismantling, cutting and alterations for completion of the Work. 1. Protect items to remain. 2. Relocate existing equipment to accommodate construction. 3. Conduct demolition to minimize interference with adjacent and occupied building areas. 4. Coordinate demolition work with other disciplines. 5. Coordinate and sequence demolition so as not to cause shutdown of operation of surrounding areas. 6. Shut-down Periods: a. Arrange timing of shut-down periods of in service panels with Owner. Do not shut down any utility without prior written approval. b. Keep shut-down period to minimum or use intermittent period as directed by Owner. c. Maintain life-safety systems in full operation in facilities, or provide notice minimum 72 hours in advance or as directed by Owner.	2.06 PROJECT RECORD DOCUMENTS: A. Upon completion of Work, furnish Architect with complete sets of reproducible plans upon which shall be shown all Work installed under Contract which are not in accordance with Drawings. B. All symbols and designations used in preparing Record Drawings shall match those used in Contract Drawings. C. Maintain an up to date set of electrical drawings while construction. 2.09 SITE EXAMINATION AND CONDITIONS: A. Examine site; verify dimensions and locations against drawings and become informed of all conditions under which work is to be done before submitting proposal. No allowance will be made for extra expenses because of omission on Contractor's part to include cost of work under prevailing conditions. B. Information shown relative to services is based upon available records and data shall be regarded as approximate only. Minor deviations found necessary to conform with actual locations and conditions shall be made without extra cost. 2.10 INSPECTIONS: A. Arrange for required inspections and secure approvals from authorities having jurisdiction. B. During its progress, work shall be subject to inspection by the Inspector of Record. 2.11 GUARANTEE: A. Provide one-year guarantee. Repair or replace as may be necessary any defective work, material or part with no increase in Contract Sum including repair or replacement of other Work, furnishing, equipment or premises caused by such repair or replacement of defective work.	3.04 WORKING SPACE: A. Provide adequate working space around electrical equipment in compliance with Article 4 of Electrical Safety Orders. In general, provide 36-inches minimum clear work space in front of panelboards and controls for 120/208-volt systems and 48-inches minimum clear work space in front of panelboards and controls for 277/480-volt systems. 3.05 PROTECTION: A. In performance of work, protect work from damage. Protect electrical equipment, stored and installed, from dust, water or other damage. 3.06 INSTALLATION OF BRANCH CIRCUITS: A. Single pole circuit breakers serving a multi-wire branch circuit shall be provided with an identified handle tie. B. Emergency power circuits shall have dedicated neutrals. C. Dedicated branch circuits shall have dedicated neutrals. D. Accomplish grounding of electrical system by using insulated grounding conductor installed with feeders and branch circuit conductors in conduits. Install from grounding bus of serving panel to ground bus of served panel, grounding screw of receptacles, lighting fixture housing, light switch outlet boxes or metal enclosures of service equipment. Ground conduits by means of grounding bushings on terminations at panelboards with installed number 12 AWG copper conductor to grounding bus. 3.07 EQUIPMENT IDENTIFICATION: A. Provide screwed-on engraved nameplates of black lamicoide with 0.75-inch high white lettering for main switchboards (including each breaker and switch), all panelboards, transformers, all relays, timers, terminal cabinets (including each section) and all special panels and consoles. B. Provide identifying numbers for each breaker in all panelboards in a permanently attached (not pasted on) directory with plexiglass cover with typewritten identification of each circuit. C. Provide screwed-on engraved nameplates of black lamicoide with white 0.5-inch high lettering, identifying function, for all disconnect switches and starters. D. Provide labels at each end of each pull cord for all empty conduits/raceways. E. Indicate type of equipment, equipment designation and origination, ex. "PANEL-XXX fed from SWITCHBOARD-XXX", "PANEL-XXX fed from TRANSFORMER-XXX", etc. 3.11 WIRE COLOR: A. General: 1. For wire sizes 10 AWG and smaller, install wire colors in accordance with the following: a. Black, red, and blue for circuits at 120/208 volts single or three phase. 2. For wire sizes 8 AWG and larger, identify wire with colored tape at terminals, splices and boxes. Colors are as follows: a. Black, red, and blue for circuits at 120/208 volts single or three phase. B. Neutral Conductors: White. When two or more neutrals are located in one conduit, individually identify each with proper circuit number. C. Branch Circuit Conductors: Install three or four wire home runs with each phase uniquely color coded. D. Feeder Circuit Conductors: Uniquely color code each phase. E. Ground Conductors: 1. For 6 AWG and smaller: Green. 2. For 4 AWG and larger: Identify with green tape at both ends and visible points including junction boxes.	3.12 INSTALLATION - CIRCUIT BREAKERS IN EXISTING SWITCHBOARD / MOTOR CONTROL CENTER / PANELBOARDS: A. Modifications to existing panelboards, switchboards, and control centers shall be as indicated on the Drawings. New equipment shall match existing where possible and in all cases be compatible with existing. Where new breakers are installed in existing equipment, provide all hardware and trim pieces as required for a complete closed installation. Provide new nameplates at equipment where existing breakers are identified by nameplates and provide new breaker identification in directory where existing breakers are identified in a directory. B. Where new breakers are indicated to be installed in existing switchboard or panel, but insufficient space exists, provide enclosed circuit breakers externally and tap existing bussing. Tap conduit and wire sizes shall be same as breaker line side conduit and wire. 3.15 TESTING AND ADJUSTING: A. Furnish all labor and test equipment required for the Work of this Division. Testing work is defined as that work necessary to establish that equipment has been properly assembled, connected, and checked to verify that intent and purpose of Drawings, manufacturer's instruction manuals, and directions of Architect have been accomplished in satisfactory manner. B. Test each individual circuit at panel with equipment connected for proper operation.
1.05 QUALITY ASSURANCE:	A. Requirements of Regulatory Agencies: 1. Nothing in the Contract Documents shall be construed to permit Work not conforming to applicable codes, laws, ordinances, rules or regulations. 2. All installed or connected equipment shall be labeled or certified for its use by a nationally recognized testing laboratory. 3. All materials and equipment shall be installed in accordance with manufacturer's recommendations and in accordance with the National Electrical Contractors Association (NECA) Standard of Installation.	2.02 BUILDING WIRE: A. Product Description: Single conductor insulated wire. B. Conductor: Copper. C. Insulation Voltage Rating: 600 volts. D. Insulation Temperature Rating: 90 degrees C. E. Insulation Material: Thermoplastic. 2.03 WIRING CONNECTORS: A. Bolted pressure connectors: Cast bronze compression bolts designed for parallel taps, tees, crosses or end-to-end connections. B. Insulated spring wire connectors: Multi-part construction incorporating a steel spring enclosed with a color coded outer thermoplastic shell.	3.07 EQUIPMENT IDENTIFICATION: A. Provide screwed-on engraved nameplates of black lamicoide with 0.75-inch high white lettering for main switchboards (including each breaker and switch), all panelboards, transformers, all relays, timers, terminal cabinets (including each section) and all special panels and consoles. B. Provide identifying numbers for each breaker in all panelboards in a permanently attached (not pasted on) directory with plexiglass cover with typewritten identification of each circuit. C. Provide screwed-on engraved nameplates of black lamicoide with white 0.5-inch high lettering, identifying function, for all disconnect switches and starters. D. Provide labels at each end of each pull cord for all empty conduits/raceways. E. Indicate type of equipment, equipment designation and origination, ex. "PANEL-XXX fed from SWITCHBOARD-XXX", "PANEL-XXX fed from TRANSFORMER-XXX", etc. 3.11 WIRE COLOR: A. General: 1. For wire sizes 10 AWG and smaller, install wire colors in accordance with the following: a. Black, red, and blue for circuits at 120/208 volts single or three phase. 2. For wire sizes 8 AWG and larger, identify wire with colored tape at terminals, splices and boxes. Colors are as follows: a. Black, red, and blue for circuits at 120/208 volts single or three phase. B. Neutral Conductors: White. When two or more neutrals are located in one conduit, individually identify each with proper circuit number. C. Branch Circuit Conductors: Install three or four wire home runs with each phase uniquely color coded. D. Feeder Circuit Conductors: Uniquely color code each phase. E. Ground Conductors: 1. For 6 AWG and smaller: Green. 2. For 4 AWG and larger: Identify with green tape at both ends and visible points including junction boxes.	3.12 INSTALLATION - CIRCUIT BREAKERS IN EXISTING SWITCHBOARD / MOTOR CONTROL CENTER / PANELBOARDS: A. Modifications to existing panelboards, switchboards, and control centers shall be as indicated on the Drawings. New equipment shall match existing where possible and in all cases be compatible with existing. Where new breakers are installed in existing equipment, provide all hardware and trim pieces as required for a complete closed installation. Provide new nameplates at equipment where existing breakers are identified by nameplates and provide new breaker identification in directory where existing breakers are identified in a directory. B. Where new breakers are indicated to be installed in existing switchboard or panel, but insufficient space exists, provide enclosed circuit breakers externally and tap existing bussing. Tap conduit and wire sizes shall be same as breaker line side conduit and wire. 3.15 TESTING AND ADJUSTING: A. Furnish all labor and test equipment required for the Work of this Division. Testing work is defined as that work necessary to establish that equipment has been properly assembled, connected, and checked to verify that intent and purpose of Drawings, manufacturer's instruction manuals, and directions of Architect have been accomplished in satisfactory manner. B. Test each individual circuit at panel with equipment connected for proper operation.
1.06 SUBMITTALS:	A. Submit product data, shop drawings, manufacturer's installation instructions for all electrical equipment and materials in accordance with General Conditions. B. All submittals shall be reviewed by the Contractor and stamped with his approval prior to submitting to the Architect. Contractor shall indicate in writing any deviation in submittals from requirement of Contract Documents. C. Forward all submittals to the Architect, together, at one time. Individual or incomplete submittals will not be acceptable. Only one request for substitution will be considered on each item of materials or equipment.	2.04 FLEXIBLE METAL CONDUIT: A. Product Description: Interlocked steel construction. B. Fittings: NEMA FB 1.	3.07 EQUIPMENT IDENTIFICATION: A. Provide screwed-on engraved nameplates of black lamicoide with 0.75-inch high white lettering for main switchboards (including each breaker and switch), all panelboards, transformers, all relays, timers, terminal cabinets (including each section) and all special panels and consoles. B. Provide identifying numbers for each breaker in all panelboards in a permanently attached (not pasted on) directory with plexiglass cover with typewritten identification of each circuit. C. Provide screwed-on engraved nameplates of black lamicoide with white 0.5-inch high lettering, identifying function, for all disconnect switches and starters. D. Provide labels at each end of each pull cord for all empty conduits/raceways. E. Indicate type of equipment, equipment designation and origination, ex. "PANEL-XXX fed from SWITCHBOARD-XXX", "PANEL-XXX fed from TRANSFORMER-XXX", etc. 3.11 WIRE COLOR: A. General: 1. For wire sizes 10 AWG and smaller, install wire colors in accordance with the following: a. Black, red, and blue for circuits at 120/208 volts single or three phase. 2. For wire sizes 8 AWG and larger, identify wire with colored tape at terminals, splices and boxes. Colors are as follows: a. Black, red, and blue for circuits at 120/208 volts single or three phase. B. Neutral Conductors: White. When two or more neutrals are located in one conduit, individually identify each with proper circuit number. C. Branch Circuit Conductors: Install three or four wire home runs with each phase uniquely color coded. D. Feeder Circuit Conductors: Uniquely color code each phase. E. Ground Conductors: 1. For 6 AWG and smaller: Green. 2. For 4 AWG and larger: Identify with green tape at both ends and visible points including junction boxes.	3.12 INSTALLATION - CIRCUIT BREAKERS IN EXISTING SWITCHBOARD / MOTOR CONTROL CENTER / PANELBOARDS: A. Modifications to existing panelboards, switchboards, and control centers shall be as indicated on the Drawings. New equipment shall match existing where possible and in all cases be compatible with existing. Where new breakers are installed in existing equipment, provide all hardware and trim pieces as required for a complete closed installation. Provide new nameplates at equipment where existing breakers are identified by nameplates and provide new breaker identification in directory where existing breakers are identified in a directory. B. Where new breakers are indicated to be installed in existing switchboard or panel, but insufficient space exists, provide enclosed circuit breakers externally and tap existing bussing. Tap conduit and wire sizes shall be same as breaker line side conduit and wire. 3.15 TESTING AND ADJUSTING: A. Furnish all labor and test equipment required for the Work of this Division. Testing work is defined as that work necessary to establish that equipment has been properly assembled, connected, and checked to verify that intent and purpose of Drawings, manufacturer's instruction manuals, and directions of Architect have been accomplished in satisfactory manner. B. Test each individual circuit at panel with equipment connected for proper operation.
1.07 DRAWINGS AND COORDINATION WITH OTHER WORK:	A. Drawings 1. For purposes of clarity and legibility, Drawings are essentially diagrammatic to the extent that many offsets, bends, special fittings, and the exact locations of items are not shown, unless specifically dimensioned.	2.04 FLEXIBLE METAL CONDUIT: A. Product Description: Interlocked steel construction. B. Fittings: NEMA FB 1.	3.07 EQUIPMENT IDENTIFICATION: A. Provide screwed-on engraved nameplates of black lamicoide with 0.75-inch high white lettering for main switchboards (including each breaker and switch), all panelboards, transformers, all relays, timers, terminal cabinets (including each section) and all special panels and consoles. B. Provide identifying numbers for each breaker in all panelboards in a permanently attached (not pasted on) directory with plexiglass cover with typewritten identification of each circuit. C. Provide screwed-on engraved nameplates of black lamicoide with white 0.5-inch high lettering, identifying function, for all disconnect switches and starters. D. Provide labels at each end of each pull cord for all empty conduits/raceways. E. Indicate type of equipment, equipment designation and origination, ex. "PANEL-XXX fed from SWITCHBOARD-XXX", "PANEL-XXX fed from TRANSFORMER-XXX", etc. 3.11 WIRE COLOR: A. General: 1. For wire sizes 10 AWG and smaller, install wire colors in accordance with the following: a. Black, red, and blue for circuits at 120/208 volts single or three phase. 2. For wire sizes 8 AWG and larger, identify wire with colored tape at terminals, splices and boxes. Colors are as follows: a. Black, red, and blue for circuits at 120/208 volts single or three phase. B. Neutral Conductors: White. When two or more neutrals are located in one conduit, individually identify each with proper circuit number. C. Branch Circuit Conductors: Install three or four wire home runs with each phase uniquely color coded. D. Feeder Circuit Conductors: Uniquely color code each phase. E. Ground Conductors: 1. For 6 AWG and smaller: Green. 2. For 4 AWG and larger: Identify with green tape at both ends and visible points including junction boxes.	3.12 INSTALLATION - CIRCUIT BREAKERS IN EXISTING SWITCHBOARD / MOTOR CONTROL CENTER / PANELBOARDS: A. Modifications to existing panelboards, switchboards, and control centers shall be as indicated on the Drawings. New equipment shall match existing where possible and in all cases be compatible with existing. Where new breakers are installed in existing equipment, provide all hardware and trim pieces as required for a complete closed installation. Provide new nameplates at equipment where existing breakers are identified by nameplates and provide new breaker identification in directory where existing breakers are identified in a directory. B. Where new breakers are indicated to be installed in existing switchboard or panel, but insufficient space exists, provide enclosed circuit breakers externally and tap existing bussing. Tap conduit and wire sizes shall be same as breaker line side conduit and wire. 3.15 TESTING AND ADJUSTING: A. Furnish all labor and test equipment required for the Work of this Division. Testing work is defined as that work necessary to establish that equipment has been properly assembled, connected, and checked to verify that intent and purpose of Drawings, manufacturer's instruction manuals, and directions of Architect have been accomplished in satisfactory manner. B. Test each individual circuit at panel with equipment connected for proper operation.



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Project Number: G219 Contact: Miguel

KEY PLAN



AGENCY APPROVAL

REVISION SCHEDULE
NO. REVISION NAME DATE

PROJECT INFORMATION
PCCD
BCC ENTRY DOOR REPLACEMENT

FACILITY NAME: BERKELEY CITY COLLEGE
FACILITY ADDRESS: 2650 CENTER ST, BERKELEY, CA 94704
UNIVERSITY PROJECT NUMBER:
AUTHORITY HAVING JURISDICTION: DBA
ARCHITECT PROJECT NO.: 6271.100

SHEET TITLE DATE: 10/21/2021

SPECIFICATIONS

SHEET NUMBER SCALE: As indicated

E-401