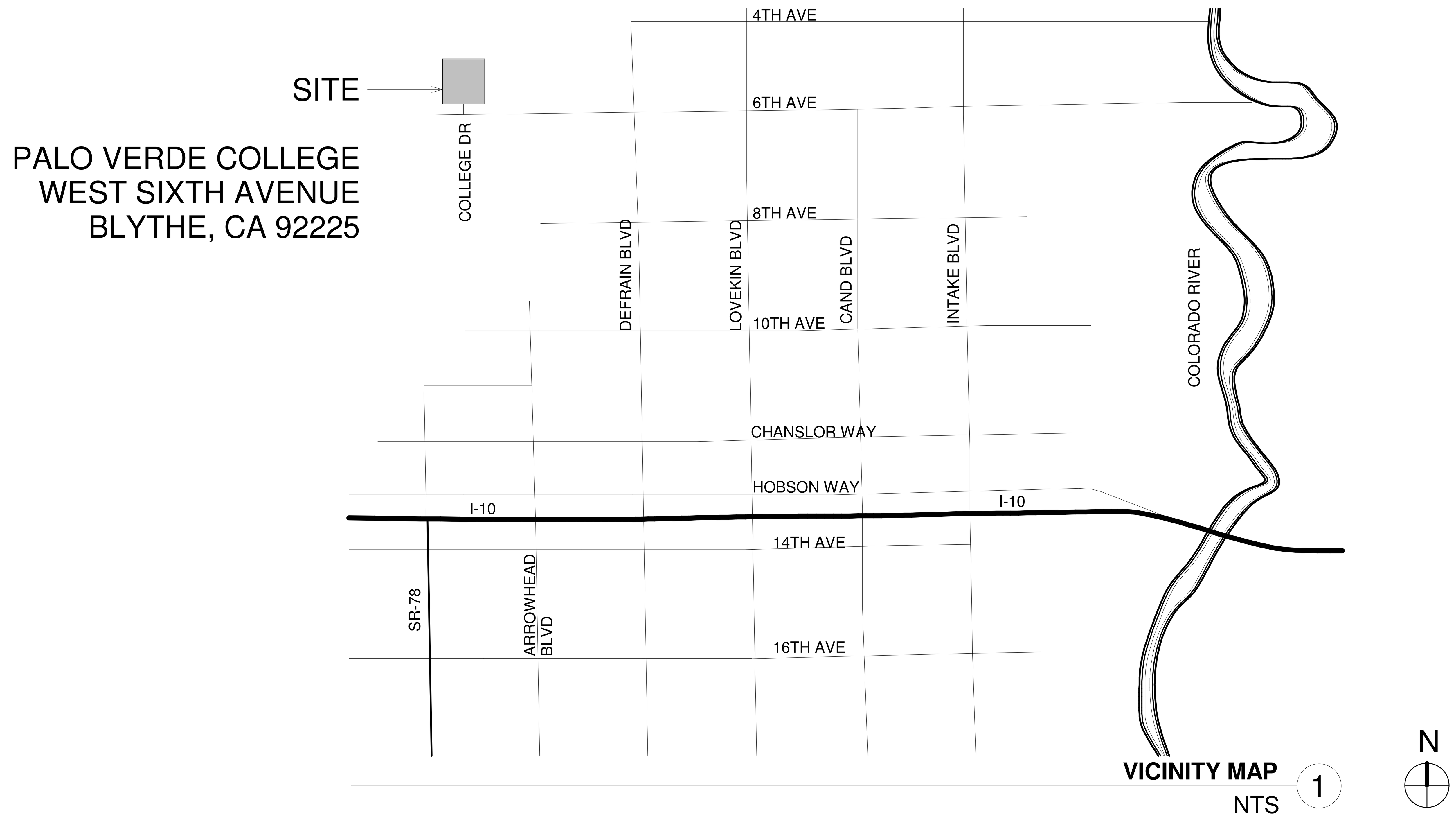
PALO VERDE COMMUNITY COLLEGE

CONSTRUCTION DOCUMENTS

COLLEGE SERVICES BUILDING - (GENERAL ALTERATIONS)
BLYTHE, CALIFORNIA

VICINITY MAP



VICINITY MAP (1)
NTS

BUILDING DATA / CODE ANALYSIS

TOTAL AREA OF WORK:	2,654 SF
APN:	821-200-020
CONSTRUCTION TYPE:	(E) TYPE-IIB
OCCUPANCY GROUPS:	B, A-3
FULLY SPRINKLERED:	YES
BUILDING HEIGHT:	42'-0" (NO CHANGES TO HT.)
NUMBER OF STORIES	2-STORY
INSPECTOR CLASSIFICATION	**CLASS 3 INSPECTOR**

SCOPE OF WORK

SCOPE OF WORK:
THE PROJECT CONSISTS OF MINOR TENANT IMPROVEMENTS TO THE FIRST FLOOR OF THE COLLEGE SERVICES BUILDING. THE IMPROVEMENTS SHALL CONSIST OF THE INSTALLATION (3) THREE DOORS FROM ROOMS CS127, CS127A, AND CS126 INTO THE ASB STUDENT LOUGE ROOM 125, THE REMOVAL AND REINSTALLATION OF THE DOOR AND PARTITION WALL FROM THE HALLWAY INTO BUSINESS SERVICES ROOM CS120 ON THE EAST SIDE OF THE HALLWAY TO THE WEST SIDE/END OF THE HALLWAY AT THE WORK ROOM CS115, THE JOINING OF ROOMS CS117 & CS118 INTO ONE ROOM, THE INSTALLATION OF (4) FOUR 100 SQUARE FEET OFFICES INT HE BUSINESS SERVICES ROOM CS120, MINOR UPGRADES TO THE MEN'S AND WOMEN'S RESTROOMS TO INCLUDE THE CONVERSION OF ONE STALL IN THE MEN'S RESTROOM TO AN ACCESSIBLE AMBULATORY STALL BY REPLACNG THE PATITION OF THE CORRECT LENGTH AND THE REMOVAL OF THE CHANGING STATIONS AND THE REMOVAL AND RELOCATION OF THE SEAT DISPENSORS IN THE ACCESSIBLE STALLS IN BOTH RESTROOMS ALONG WITH PATCHING/REPAIRING (RE-TILING) AND PAINTING TO MATCH EIXSTING CONDITIONS.

PARTIAL LIST OF APPLICABLE CODES AND STANDARDS

PARTIAL LIST OF APPLICABLE CODES AS OF January 1, 2020*

2019 California Administrative Code (CAC), Part 1, Title 24 CCR*
2019 California Building Code (CBC), Part 2, Title 24 CCR
(2018 International Building Code, Vol. 1 & 2, and 2019 California amendments)
2019 California Electrical Code (CEC), Part 3, Title 24 CCR
(2017 National Electrical Code and 2019 California Amendments)
2019 California Mechanical Code (CMC), Part 4, Title 24 CCR
(2018 IAPMO Uniform Mechanical Code and 2019 California amendments)
2019 California Plumbing Code (CPC), Part 5, Title 24 CCR
(2018 IAPMO Uniform Plumbing Code and 2019 California amendments)
2019 California Energy Code (CEC), Part 6, Title 24 CCR
2019 California Fire Code (CFC), Part 9, Title 24 CCR
(2018 International Fire Code and 2019 California Amendments)
2019 California Existing Building Code (CEBC), Part 10, Title 24 CCR
(2018 International Existing Building Code and 2019 California Amendments)
2019 California Green Building Standards Code (CALGreen), Part 11, Title 24 CCR
2019 California Referenced Standards Code, Part 12, Title 24 CCR
Title 19 CCR, Public Safety, State Fire Marshal Regulations
2016 ASME A17.1/CSA B44-13 Safety Code for Elevators and Escalators (per 2019 CBC Part 2 Ch 35)
Note: Cal/OSHA Elevator Unit enforces CCR Title 8 and uses the 2004 ASME A17.1 by adoption

PARTIAL LIST OF APPLICABLE STANDARDS

NFPA 13 - Standard for the Installation of Sprinkler Systems (CA amended).....................2016 Edition
NFPA 14 - Standard for the Installation of Standpipe and Hose Systems (CA amended)....2016 Edition
NFPA 17 - Standard for Dry Chemical Extinguishing Systems..2017 Edition
NFPA 17A - Standard for Wet Chemical Extinguishing Systems.......................................2017 Edition
NFPA 20 - Standard for the Installation of Stationary Pumps for Fire Protection.................2016 Edition
NFPA 22 - Standard for Water Tanks for Private Fire Protection.......................................2013 Edition
NFPA 24 - Standard for the Installation of Private Fire Service Mains and
Their Appurtenances (CA amended)...2016 Edition
NFPA 72 - National Fire Alarm and Signaling Code (CA amended)...................................2016 Edition
NFPA 80 - Standard for Fire Doors and Other Opening Protectives..................................2016 Edition
NFPA 2001 - Standard on Clean Agent Fire Extinguishing Systems (CA amended)...........2015 Edition
UL 300 - Standard for Fire Testing of Fire Extinguishing Systems for
Protection of Commercial Cooking Equipment...2005 (R2010)
UL 464 - Audible Signaling Devices for Fire Alarm and Signaling Systems,
Including Accessories..2003 Edition
UL 521 - Standard for Heat Detectors for Fire Protective Signaling Systems......................1999 Edition
UL 1971 - Standard for Signaling Devices for the Hearing Impaired..................................2002 (R2010)
ICC 300 - Standard for Bleachers, Folding and Telescopic Seating, and Grandstands........2017 Edition

For a complete list of applicable NFPA standards refer to 2019 CBC (SFM) Chapter 35 and California Fire Code Chapter 80.

See California Building Code Chapter 35 for State of California amendments to the NFPA Standards.

*All parts of the 2019 California Building Code become effective January 1, 2020 except the effective date for the use of the 2019 Building Energy Efficiency Standards (Title 24, Part 1, Chapter 10) is January 8, 2019 and the effective date for the use of the California Administrative Code (Title 24, Part 1, Chapter 4) is January 8, 2019.

SHEET INDEX

PROJECT DIRECTORY

OWNER
PALO VERDE COMMUNITY COLLEGE DISTRICT
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CONTACT : MAUREEN DAVIS
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ELECTRICAL DESIGN
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J&R ENGINEERING & CONSULTANTS INC.
16885 WEST BERNARDO DRIVE, SUITE 118
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PROTECTION DESIGN AND CONSULTING
2851 CAMINO DEL RIO SOUTH, SUITE 210
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EMAIL: BRENT@PROTECTIONDESIGN.COM

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STATEMENT OF GENERAL CONFORMANCE

STATEMENT OF GENERAL CONFORMANCE - DRAWINGS BY OTHERS
THE DRAWINGS ON THE DRAWING INDEX INDICATED BY A BULLET (•) HAVE BEEN PREPARED BY OTHER DESIGN PROFESSIONALS OR CONSULTANTS WHO ARE LICENSED AND/OR AUTHORIZED TO PREPARE SUCH DRAWINGS IN THIS STATE. IT HAS BEEN EXAMINED BY ME FOR:
DESIGN INTENT AND APPEARS TO MEET THE APPROPRIATE REQUIREMENTS OF THE TITLE 24, CALIFORNIA CODE OF REGULATIONS AND THE PROJECT SPECIFICATIONS PREPARED BY ME,
AND
1. COORDINATION WITH MY PLANS AND SPECIFICATIONS AND IS ACCEPTABLE FOR INCORPORATION INTO THE CONSTRUCTION OF THE PROJECT.

MARK BAKER, SILLMAN ARCHITECTS,
C-18627

LICENSED ARCHITECT · MARK B. LEWIS BAKER · C-18627 · 06/30/21 · STATE OF CALIFORNIA

NOTES

- ALL WORK SHALL CONFORM TO 2019 EDITION TITLE 24, CALIFORNIA CODE OF REGULATIONS (CCR).
- FABRICATION AND INSTALLATION OF DEFERRED SUBMITTAL ITEMS SHALL NOT BE STARTED UNTIL CONTRACTOR'S DRAWINGS, SPECIFICATIONS, AND ENGINEERING CALCULATIONS FOR THE ACTUAL SYSTEMS TO BE INSTALLED HAVE BEEN ACCEPTED AND SIGNED BY THE ARCHITECT OR STRUCTURAL ENGINEER AND APPROVED BY THE DSA.
- CHANGE TO THE APPROVED DRAWINGS AND SPECIFICATIONS SHALL BE MADE BY ADDENDA OR CONSTRUCTION CHANGE DOCUMENT (CCD) APPROVED BY DSA, AS REQUIRED BY SECTION 4-338, PART 1, TITLE 24, CCR.
- A "DSA CERTIFIED" PROJECT INSPECTOR EMPLOYED BY THE DISTRICT (OWNER) AND APPROVED BY DSA SHALL PROVIDE CONTINUOUS INSPECTION OF THE WORK. THE DUTIES OF THE INSPECTOR ARE DEFINED IN SECITON 4-342, PART 1, TITLE 24, CCR.
- A DSA ACCEPTED TESTING LABORATORY DIRECTLY EMPLOYED BY THE DRISTRICT (OWNER) SHALL CONDUCT ALL THE REQUIRED TESTS AND INSPECTIONS FOR THE PROJECT.
- THE INTENT OF THESE DRAWINGS AND SPECIFICATIONS IS THAT THE WORK OF THE ALTERATION, REHABILITATION OR RECONSTRUCTION IS TO BE IN ACCORDANCE WITH TITLE 24, CCR. SHOULD ANY EXISTING CONDITIONS SUCH AS DETERIORATION OR NON-COMPLYING CONSTRUCTION BE DISCOVERED WHICH IS NOT COVERED BY THE CONTRACT DOCUMENTS WHEREIN THE FINISHED WORK WILL NOT COMPLY WITH TITLE 24, CCR, A CONSTRUCION CHANGE DOCUMENT (CCD), OR A SEPARATE SET OF PLANS AND SPECIFICATIONS, DETAILING AND SPECIFYING THE REQUIRED WORK SHALL BE SUBMITTED TO AND APPROVED BY DSA BEFORE PROCEEDING WITH THE WORK. (SECTION 4-317(C), PART 1, TITLE 24, CCR).
- THE PORJECT SHALL COMPLY WITH CHAPTER 33 OF THE 2019 CALIFORNIA FIRE CODE (C.F.C.)

REVIEWED BY: DISTRICT ARCHITECT — DATE; ASSISTANT DISTRICT ARCHITECT — DATE; OTHER — DATE; OTHER — DATE; OTHER — DATE; OTHER — DATE; DSA

CONSULTANT

ARCHITECT/CONSULTANT

PALO VERDE COLLEGE
WHERE KNOWLEDGE TAKES ROOT AND OPPORTUNITY GROWS

Palo Verde Community College District
1 College Drive
Blythe, CA 92225

PREPARED FOR THE
BOARD OF EDUCATION
PALO VERDE COMMUNITY COLLEGE DISTRICT
BLYTHE, CALIFORNIA

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www.sillmanwright.com

TITLE SHEET

COLLEGE SERVICES BUILDING
PALO VERDE COMMUNITY COLLEGE DISTRICT
West Sixth Avenue, Blythe, CA 92225

PROJECT NO.	2016 A.P.
	20016 Palo Verde College
DATE	03/22/2021
DRAWN	AH
CHECKED	MS
REVISIONS	
SHEET NO.	G-001

1 OF 38 SHEETS

File Path: BIM 360://Palo Verde College - College Services TI/20016 Palo Verde College.rvt

1. ALL CONTRACTORS SHALL BE EXPERIENCED AND THOROUGHLY KNOWLEDGEABLE IN THEIR RESPECTIVE AREAS OF THE CONSTRUCTION INDUSTRY AND SHALL PERFORM IN A RESPONSIBLE MANNER IN ESTABLISHED CONSTRUCTION SEQUENCE. IN REVIEWING THE DRAWINGS AND DETAILS, THE CONTRACTOR SHALL INFORM THE ARCHITECT OF POTENTIAL PROBLEMS WHEN DRAWINGS ARE UNCLEAR OR INCONSISTENT.

2. ALL REFERENCES MADE IN THE PLANS, SPECIFICATIONS AND CONTRACT DOCUMENTS TO THE CONTRACTOR SHALL ALSO APPLY TO THE SUBCONTRACTOR. THE CONTRACTOR SHALL ALSO BE RESPONSIBLE TO NOTIFY THE ARCHITECT OF DISCREPANCIES OR CONFLICTS IN THE DRAWINGS FOUND DURING BIDDING AND/OR CONSTRUCTION PRIOR TO PERFORMING THE WORK. THE ARCHITECT SHALL RESOLVE SUCH DISCREPANCIES EXPEDITIOUSLY AND NOTIFY THE CONTRACTOR EITHER VERBALLY OR IN WRITING AS APPLICABLE TO THE CONDITION. IF CONFLICTS ARE NOT BROUGHT TO THE ATTENTION OF THE ARCHITECT DURING THE BID PROCESS IT IS ASSUMED THAT THE CONTRACTOR WILL BE RESOLVING THE CONFLICT IN THE MOST INEXPENSIVE WAY.

3. UTILITIES ARE DIAGRAMMATICALLY LOCATED ON THE DRAWING SOLEY FOR THE CONVENIENCE OF THE CONTRACTOR. THE CONTRACTOR IS EXPRESSLY WARNED THAT SUCH INDICATIONS ARE ONLY APPROXIMATE AS TO ACTUAL LOCATION. IT IS THE CONTRACTOR'S RESPONSIBILITY TO RELOCATE ANY AND ALL UTILITIES REQUIRED TO COMPLETE THE SCOPE OF WORK.

4. ALL WORKMANSHIP AND MATERIALS SHALL CONFORM TO THE REQUIREMENTS OF THE LATEST EDITION OF THE C.B.C. AND TITLE 24 AS ADOPTED AND AMENDED BY LOCAL GOVERNING AGENCIES.

5. WHERE NO CONSTRUCTION DETAILS OR NOTES ARE SHOWN FOR ANY PART OF THE WORK, IT IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO PERFORM THE WORK TO CONFORM TO SIMILAR STANDARD DETAILS AS REGULATED BY LOCAL GOVERNING AGENCIES.

6. IF NOT SPECIFICALLY DEFINED IN THESE DRAWINGS, MATERIALS AND/OR EQUIPMENT SHALL BE IDENTIFIED BY THE CONTRACTOR TO THE ARCHITECT WITHIN A REASONABLE AMOUNT OF TIME TO ALLOW SELECTION, PURCHASE AND DELIVERY SO AS TO PREVENT DELAY IN THE JOB SCHEDULE.

7. MATERIAL SUBSTITUTION SHALL BE APPROVED BY THE ARCHITECT AND OWNER PRIOR TO THE PURCHASE AND INSTALLATION.

8. ALL MATERIAL SHALL BE HANDLED AND INSTALLED PER MANUFACTURERS SPECIFICATIONS AND RECOMMENDATIONS.

9. ALL COLORS AND / OR COLOR SAMPLES SHALL BE SUBMITTED TO THE ARCHITECT AND OWNER FOR REVIEW AND APPROVAL PRIOR TO INSTALLATION OR APPLICATION.

10. TOILET ROOMS SHALL HAVE AN AIR CHANGE OF FOUR (4) COMPLETE VOLUMETRIC AIR CHANGES PER HOUR.

11. NEITHER THE OWNER OR ARCHITECT ARE RESPONSIBLE FOR ENFORCING SAFETY MEASURES OR REGULATIONS. THE CONTRACTOR SHALL DESIGN, CONSTRUCT AND MAINTAIN ALL SAFETY DEVICES, INCLUDING SHORING AND BRACING AND BE SOLELY RESPONSIBLE FOR CONFORMING TO ALL LOCAL, STATE AND FEDERAL SAFETY AND HEALTH STANDARDS, LAWS AND REGULATIONS.

12. ATTIC SEPARATIONS AS REQUIRED BY GOVERNING AGENCIES SHALL BE PROVIDED, WHETHER INDICATED ON THESE PLANS OR NOT.

13. THE CONTRACTOR IS REQUIRED TO VISIT THE SITE AND BECOME AWARE OF ALL VISIBLE EXISTING CONDITIONS, ASCERTAIN THE LIMITS OF WORK, (AS RELATED TO EXISTING CONDITIONS AND IMPROVEMENTS) LIMITS OF SITE ACCESS FOR EQUIPMENT, MATERIAL DELIVERY AND STORAGE AND CONSTRUCTION FORCES.

14. THE CONTRACTOR SHALL CHECK AND VERIFY ALL FIELD MEASUREMENTS AND SHALL SUBMIT FOR REVIEW, WITH SUCH PROMPTNESS AS TO CAUSE NO DELAY IN HIS OWN WORK OR THAT OF ANY SUBCONTRACTOR, ALL SHOP OR SETTING DRAWINGS AND SCHEDULES REQUIRED FOR THE WORK OF THE VARIOUS TRADES.

15. SUBMITTAL DOCUMENTS FOR DEFERRED SUBMITTAL ITEMS SHALL BE SUBMITTED TO THE ARCHITECT OR ENGINEER OF RECORD, WHO SHALL REVIEW THEM AND FORWARD THEM TO THE BUILDING OFFICIAL WITH A NOTATION INDICATING THAT THEY HAVE BEEN REVIEWED AND THAT THEY HAVE BEEN FOUND TO BE IN GENERAL CONFORMANCE WITH THE DESIGN OF THE BUILDING. THE DEFERRED SUBMITTAL ITEMS SHALL NOT BE INSTALLED UNTIL THEIR DESIGN AND SUBMITTAL DOCUMENTS HAVE BEEN APPROVED BY THE BUILDING OFFICIAL. THE DEFERRED SUBMITTAL ITEMS ARE: NONE AT THIS TIME

16. VERIFY WITH ARCHITECT WHETHER THESE NOTES OR SPECIFIC NOTES ON DRAWINGS SHALL TAKE PRECEDENCE IN CASE OF CONFLICT.

17. WRITTEN DIMENSIONS ON THESE DRAWINGS SHALL GOVERN. DO NOT SCALE DRAWINGS UNLESS DIRECTED BY ARCHITECT.

18. VERIFY EXACT LOCATIONS AND SIZES OF HOLES IN FLOOR, WALLS, AND ROOF FOR PLUMBING, HVAC, AND ELECTRICAL WITH RESPECTIVE CONTRACTORS AND SUB CONTRACTORS.

19. OWNER OR HIS AUTHORIZED AGENT SHALL BE RESPONSIBLE FOR ALL SCHEDULING AND COORDINATION. ALL DRAWINGS HAVE BEEN DRAWN TO SCALE AS INDICATED UNLESS OTHERWISE SHOWN; HOWEVER, MECHANICAL, FIRE PROTECTION AND ELECTRICAL SYSTEMS MAY BE OF SCHEMATIC LAYOUT. CONTRACTOR SHALL BE RESPONSIBLE FOR SCHEDULING AND COORDINATION OF ALL ROUGH-IN AND FINISH INSTALLATIONS OF AND VERIFICATION OF NON-INTERFERENCE BETWEEN ALL SYSTEMS.

20. WALLS: SEE DRAWINGS FOR LEGEND, STUD SIZES AND SPACING. FRAMING MEMBERS INDICATED ARE SCHEMATIC, ADDITIONAL MEMBERS MAY BE REQUIRED TO PROPERLY MAINTAIN RIGIDITY, BACKING, ELECTRICAL BRACING, ETC. FOR A COMPLETE INSTALLATION. ALL INSTALLATIONS SHALL CONFORM TO THE MANUFACTURER'S ICBO APPROVED SYSTEM.

21. IF SMOKE AND FIRE DAMPERS ARE REQUIRED, CONTRACTOR SHALL SUPPLY AND INSTALL AS REQUIRED BY LOCAL CODE.

22. DRILLED-IN OR SHOT-IN CONCRETE ANCHORS USED FOR HANGER WIRES MUST BE FIELD TESTED. ONE OUT OF TEN MUST BE TESTED FOR 200 POUNDS OF TENSION. DRILLED IN CONCRETE ANCHORS USED FOR BRACING WIRES MUST BE FIELD TESTED. ONE OUT OF TWO MUST BE TESTED FOR 440 POUNDS OF TENSION. IF ANY TEST FAILS, ALL ADJACENT WIRES MUST BE TESTED.

23. ICBO REPORT NUMBERS WHERE SHOWN ON DRAWINGS AND IN THE SPECIFICATIONS ARE SHOWN ONLY TO INDICATE THE REQUIREMENTS BY THE LOCAL BUILDING DEPARTMENT. OTHER PRODUCTS WITH APPROVED ICBO REPORT NUMBER MAY BE USED IF SUBMITTED TO THE ARCHITECT PRIOR TO INSTALLATION.

24. ALL FURRED CEILINGS SHALL COMPLY WITH C.B.C

25. PLUMBING AND ELECTRICAL PENETRATIONS THROUGH WALLS FOR SEPARATION OF OCCUPANCY AND AREA, CORRIDOR, OR OTHER FIRE SEPARATIONS SHALL COMPLY WITH SEC. 713-C.B.C.

26. ADDITIONALLY, STEEL OUTLET BOXES AT OCCUPANCY SEPARATION WALLS SHALL NOT EXCEED SIXTEEN SQUARE INCHES, SHALL NOT EXCEED ONE HUNDRED SQUARE INCHES PER ONE HUNDRED SQUARE FEET OF WALL, AND SHALL BE SEPARATED BY A HORIZONTAL DISTANCE OF TWENTY-FOUR INCHES WHEN ON OPPOSITE SIDES OF A WALL PER 713 C.B.C. DUCTS PENETRATING OCCUPANCY SEPARATIONS MUST HAVE SMOKE AND FIRE DAMPERS PER 713 C.B.C.

27. BRACING AND TEMPORARY SUPPORT SHALL BE PROVIDED AS REQUIRED TO HOLD THE WORK SECURELY IN PLACE AND TO SUSTAIN ALL LOADS THAT MAY DURING ERECTION AND UNTIL SUBSEQUENT CONSTRUCTION IS ADEQUATE TO REPLACE TEMPORARY BRACING.

28. ALL FIXED GLASS PANELS ADJACENT TO DOORS AND GLAZING ADJACENT TO WALKING SURFACE MUST BE OF SAFETY GLAZING MATERIAL.

29. ALL SHOT PINS SHALL BE HILTI DS (0.177" DIA) LOW VELOCITY FASTENER (ICC-ESR-1663), 32" O.C.

30. WHEN SPECIAL INSPECTION IS REQUIRED, THE ARCHITECT OR ENGINEER OF RECORD SHALL SUBMIT THE NAME AND INFORMATION OF THE SPECIAL INSPECTION TEAM TO THE CITY FOR REVIEW AND APPROVAL.

31. MATERIAL SUBSTITUTION SHALL BE APPROVED BY THE ARCHITECT AND OWNER PRIOR TO THE PURCHASE AND INSTALLATION.

32. ALL MATERIAL SHALL BE HANDLED AND INSTALLED PER MANUFACTURERS SPECIFICATIONS AND RECOMMENDATIONS.

33. ALL COLORS AND / OR COLOR SAMPLES SHALL BE SUBMITTED TO THE ARCHITECT AND OWNER FOR REVIEW AND APPROVAL PRIOR TO INSTALLATION OR APPLICATION.

BACK CHECK READINESS REQUIREMENTS

BACK CHECK IS THE FINAL STEP IN THE DSA CBC COMPLIANCE REVIEW. THE BACK CHECK PROCESS IS FOR VERIFICATION THAT ALL REDLINE COMMENTS FROM DSA'S PLAN REVIEW HAVE BEEN RESPONDED TO AND THAT THE CORRESPONDING CORRECTIONS TO THE CONSTRUCTION DOCUMENTS HAVE BEEN COMPLETED AND THAT THE PROJECT UNDER THE DESIGNATED APPLICATION HAS MET ALL THE DSA REQUIREMENTS NECESSARY TO RECEIVE DSA APPROVAL AND IS READY FOR CONSTRUCTION USE.

THE FOLLOWING IS PROVIDED AS A MINIMUM LIST OF REQUIREMENTS NECESSARY TO SECURE A COMPLETE BACK CHECK APPOINTMENT. FAILURE TO MEET OR SUPPLY ONE OR MORE OF THESE REQUIREMENTS MAY RESULT IN A CANCELLED BACK CHECK APPOINTMENT.

1. GENERAL

A. THE MOST KNOWLEDGEABLE DESIGN PROFESSIONALS DIRECTLY RESPONSIBLE FOR THIS PROJECT AND REPRESENTING EACH PERTINENT DISCIPLINE OR AREA OF RESPONSIBILITY ARE PRESENT OR ARE IMMEDIATELY AVAILABLE FOR THIS BACK CHECK.

2. CONSTRUCTION DOCUMENTS

A. RESPONSE TO PLAN REVIEW COMMENTS AND THE CORRECTIONS FOR ALL DISCIPLINES HAVE BEEN MADE AND ARE FULLY INCORPORATED INTO THE CONSTRUCTION DOCUMENTS.

B. QUESTIONS OR DISAGREEMENTS ABOUT DSA PLAN REVIEW COMMENTS HAVE BEEN RESOLVED PRIOR TO THIS BACK CHECK APPOINTMENT.

C. NO NEW UN-REVIEWED SCOPE HAS BEEN ADDED TO THE PROJECT SCOPE WITHOUT PRIOR APPROVAL TO BE ADDED AND HAS BEEN REVIEWED AND COMMENTED ON PRIOR TO THIS BACK CHECK.

D. EPR BACK CHECKS DOCUMENTS ARE TO BE FORMATTED IN COMPLIANCE WITH PROCEDURES IN DSA PR 18-04.

3. SUPPORTING DOCUMENTS

A. ALL SUPPORTING INFORMATION PERTINENT TO THE APPROVAL OF THIS APPLICATION HAVE BEEN SECURED AND ARE PROVIDED AS NECESSARY FOR THIS BACK CHECK.

B. ALL REQUIRED DSA FORMS FOR THE SCOPE AND COMPLEXITY OF THIS APPLICATION ARE FULLY EXECUTED, SIGNED AND PROVIDED FOR AT THIS BACK CHECK, INCLUDING THE FINAL SIGNED DSA-103, THE FINAL SHEET INDEX AND DSA 145 FOR FINAL SCANNING IF A PAPER SUBMITTAL.

DOCUMENT PREPARATION REQUIREMENT

PRIOR TO THE START OF BACK-CHECK, THE DESIGN PROFESSIONAL SHALL PREPARE THE BACK-CHECK SUBMITTALS PER PR 18-04. IF THE DOCUMENTS ARE NOT PREPARED PROPERLY THE DESIGN PROFESSIONAL WILL BE REQUIRED TO REFORMAT THE DOCUMENTS, PRIOR TO THE START OF THE BACK-CHECK. PLEASE NOTE, THAT THE PREPARATION REQUIREMENTS FOR THE BACK-CHECK SUBMITTALS (V2 AND GREATER) IS THE SAME PREPARATION THAT WAS PERFORMED ON THE V1 SUBMITTALS. IF YOU HAVE ANY QUESTIONS ON HOW TO PREPARE THESE SUBMITTALS, PLEASE CONTACT THE DSA SAN DIEGO REGIONAL OFFICE'S EPR ADMINISTRATOR VIA EMAIL AT LEAST THREE BUSINESS DAYS PRIOR TO THE SCHEDULED BACK CHECK APPOINTMENT AT SDEPR@DGS.CA.GOV.

NOTICE TO DESIGN PROFESSIONAL

PRIOR TO THE START OF BACK-CHECK, ALL PLAN REVIEW COMMENTS (RED MARKS) MUST BE INCORPORATED (TURNED TO GREEN) BY THE DESIGN PROFESSIONAL PER PR 18-04. ANY QUESTIONS AND/OR POINTS OF DISAGREEMENT WITH PLAN REVIEW COMMENTS MUST BE RESOLVED WITH THE PLAN REVIEWER PRIOR TO BACK-CHECK. THE PERSON OR PERSONS REPRESENTING THE DESIGN FIRM AT THE BACK-CHECK MUST BE THOROUGHLY FAMILIAR WITH THE PROJECT AND THE PLAN REVIEW COMMENTS/CORRECTIONS. THE BACK-CHECK MAY BE TERMINATED AND RESCHEDULED IF IT IS DETERMINED BY THE PLAN REVIEWER, WITH CONCURRENCE OF THE SUPERVISOR/MANAGER, THE PLAN REVIEW ITEMS HAVE NOT BEEN ADDRESSED IN FULL, OR SIGNIFICANT NEW ITEMS HAVE BEEN ADDED THAT REQUIRE ADDITIONAL UNSCHEDULED REVIEW TIME OR THAT THE REPRESENTATIVE OF THE DESIGN FIRM IS NOT SUFFICIENTLY FAMILIAR WITH THE PROJECT.

VOIDANCE OF APPLICATION

IN ACCORDANCE WITH CALIFORNIA ADMINISTRATIVE CODE (TITLE 24, PART 1) AND IR A-17, DSA WILL USE THE FOLLOWING CRITERIA TO VOID PROJECTS DURING THE PLAN REVIEW PHASE:
1. THE CORRECTED PLANS MUST BE FILLED FOR BACKCHECK WITHIN 6 MONTHS AFTER THE DATE OF THE RETURN OF THE CHECKED PLANS TO THE ARCHITECT OR ENGINEER.
   1.1 DSA MAY, UPON REQUEST, GRANT AN EXTENSION. THE EXTENSION WOULD TYPICALLY NOT EXCEED SIX MONTHS.
   1.2 THE BACKCHECK MUST BE COMPLETED WITHIN TWO MONTHS AFTER BEING INITIATED
2. FOR INCREMENTAL PROJECTS, SUBSEQUENT INCREMENTAL PLANS AND SPECIFICATIONS MUST BE SUBMITTED TO DSA FOR CHECKING WITHIN SIX MONTHS AFTER THE APPROVAL OF PREVIOUS INCREMENT.
ANY PROJECT APPLICATION OR APPROVAL THAT HAS BEEN VOIDED BY DSA CAN BE RE-SUBMITTED AS A NEW PROJECT BY FILING A NEW APPLICATION AND NEW FEE.

GENERAL NOTES

&	AND
L	ANGLE
@	AT
C.L.	CENTERLINE
	DIAMETER
#	POUND OR NUMBER
(E)	EXISTING
A.A.	ALL AROUND
ACOUS	ACCOUSTICAL
AD	AREA DRAIN
ADJ	ADJUSTABLE
AGGR	AGGREGATE
AL	ALUMINUM
APPROX	APPROXIMATE
ARCH	ARCHITECTURAL
ASPH	ASPHALT
AC	ASPHALT CONCRETE
ACC	ACCESS COMPO
AP	ACCESS PANEL
ACP	ASPHALT CONCRETE PAVING
ADD	ADDENDUM
ADH	ADHESIVE
ADJ	ADJACENT
AFF	ABOUV FINISH FLOOR
A/C	AIR CONDITIONING
ALT	ALTERNATE
AB	ANCHOR BOLT
ANOD	ANODIZED
AT	ASHALT TILE
AUTO	AUTOMATIC
AV	AUDIO VISUAL
BD	BOARD
BITMUN	BITMUMIOUS
BLDG	BUILDING
BLK	BLOCK
BLKG	BLOCKING
BM	BEAM
BTM	BOTTOM
BMK	BENCHMARK
BET	BETWEEN
BRZ	BRONZE
CAB	CABINET
CB	CATCH BASIN
CEM	CEMENT
CER	CERAMIC
CI	CAST IRON
CIP	CAST IN PLACE
CIR	CIRCLE
CLG	CEILING
CLKG	CAULKING
CLO	CLOSET
CLR.	CLEAR
CO	CLEAN OUT
COL	COLUMN
CONC	CONCRETE
CONN.	CONNECTION
CONST	CONSTRUCTION
CONTIN	CONTINUOUS
CORR	CORRIDOR
CSK	COUNTERSINK
CTR	COUNTER
CPT	CARPET
CT	CERAMIC TILE
COMPO	COMPOSITION/COMPOSITE
CMU	CONCRETE MASONRY UNIT
CONF	CONFERENCE
CMP	CORRIGATED METAL PIPE
CONTR	CONTRACTOR
CP	CEMENT PLASTER
CJ	CONTROL JOINT
DBL	DOUBLE
DEPT	DEPARTMENT
DF	DRINKING FOUNTAIN
DET	DETAIL
DG	DUAL GLASS
DIA	DIAMETER
DIM	DIMENSION
DISP	DISPENSER
DN	DOWN
DO	DOOR OPENING
DWR	DRAWER
DS	DOWN SPOUT
DSP	DRY STAND PIPE
DWG	DRAWING
DP	DAMPROOFING
DEMO	DEMOLITION
DEP	DEPRESSION/DEPRESSED
DIAG	DIAGONAL
DIV	DIVISION
DR	DOOR
D	DRAIN
DW	DISHWASHER
E	EAST
EA	EACH
EF	EACH FACE
EJ	EXPANSION JOINT
ELEV	ELEVATION
ELEC	ELECTRICAL
EMER	EMERGANCY
ENCL	ENCLOSURE
EP	ELECTRICAL PANEL
EQ	EQUAL
EQUIP	EQUIPMENT
EST	ESTIMATE
EXP	EXPOSED
EXP	EXPANSION
EXT	EXTERIOR
EPDM	ETHYLENE PROPYLENE DIENE MONOMER
EXH	EXHAUST
EL	ELEVATOR
EIF	EXTERIOR INSULATING FINISH SYSTEM
FA	FIRE ALARM
FAS	FASTENER
FD	FLOOR DRAIN
FDN	FOUNDATION
FE	FIRE EXTINGUISHER
FEC	FIRE EXTINGUISHER
FHC	CABINET
FIN	FIRE HOSE CABINET
FL	FINISH
FLASH	FLOOR
FLOUR	FLASHING
FOC	FLUORESCENT
FOF	FACE OF CONCRETE
FOS	FACE OF FINISH
FOM	FACE OF STUD
FRP	FACE OF MASONRY
FT	FIBER REINFORCED PANEL
FTG	FOOT/FEET
FURR	FOOTING
FUT	FURRING
FFE	FUTURE
FF	FINISH FLOOR
FG	FINISH GRADE
FP	FIRE PROOF
FHMS	FLAT HEAD MACHINE SCREW
FHWS	FLAT HEAD WOOD SCREW
FL	FLOW LINE
FS	FLOOR SINK
FIX	FIXTURE
FPL	FIREPLACE
FBO	FURNISHED BY OTHERS
GA	GAUGE
GALV	GALVANIZED
GEN	GENERAL
GB	GRAB BAR
GL	GLASS, GLAZING
GC	GENERAL CONTRACTOR
GND	GROUND
GR	GRADE
GYP. BD.	GYPSUM BOARD
GI	GALVANIZED IRON
GPL	GYPSUM LATH
HB	HOSE BIBB
HC	HOLLOW CORE
HWD	HARDWOOD
HDW	HARDWARE
HM	HOLLOW METAL
HORIZ	HORIZONTAL
HR	HOUR
HGT	HEIGHT
HBD	HARDBOARD
HDR	HEADER
HVAC	HEATING, VENTING/ & AIR CONDITIONING
HD	HEAVY DUTY
HOR	HORIZONTAL
HWH	HOT WATER HEATER
HW	HOT WATER
HEX	HEXAGONAL
ID	INSIDE DIAMETER
INSUL	INSULATION
INT	INTERIOR
INCL	INCLUDED
INTEG	INTEGRATED
INSTR	INSTRUCTIONS
JAN	JANITOR
JT	JOINT
JST	JOIST
JF	JOINT FILLER
KJ	KEYED COLD JOINT
KIT	KITCHEN
KO	KNOCKOUT
KPL	KICK PLATE
LAB	LABORATORY
LAM	LAMINATE
LAV	LAVATORY
LKR	LOCKER
LT	LIGHT
LAD	LADDER
LB	LAG BOLT
LH	LEFT HAND
L	LENGTH/LONG
LW	LIGHTWEIGHT
LL	LIVE LOAD
LVR	LOUVER
LIN	LINTEL
MAX	MAXIMUM
MC	MEDICINE CABINET
MECH	MECHANICAL
MEMB	MEMBRANE
MTL	METAL
MFR	MANUFACTURER
MH	MANHOLE
MIN	MINIMUM
MIR	MIRROR
MISC	MISCELLANEOUS
MO	MASONRY OPENING
MTD	MOUNTED
MUL	MULLION
MB	MACHINE BOLT
MAS	MASONRY
MED	MEDIUM
MDO	MEDIUM DENSITY OVERLAY
MOD	MODIFIED
MOV	MOVABLE
MLD	MOLDING
MAT	MATERIAL
MRB	MARBLE
MRD	METAL ROOF DECK
N	NORTH
NIC	NOT IN CONTRACT
NOM	NOMINAL
NTS	NOT TO SCALE
OA	OVERALL
OBS	OBSCURE
O.C.	ON CENTER
OD	OUTSIDE DIAMETER
OFF	OFFICE
OPF	OPENING
OPP	OPPOSITE
OCC	OCCUPANT
OPH	OPPOSITE HAND
OHMS	OVAL HEAD MACHINE SCREW
OHWS	OVAL HEAD WOOD SCREW
OH	OVERHEAD
OV/	OVER
PAN	PANEL
PCC	PRE-CAST CONCRETE
PL	LATE
PLAM	PLASTIC LAMINATE
PLAS	PLASTER
PLYWD.	PLYWOOD
PR	PAIR
PT	POINT
PTD	PAPER TOWEL DISPENSER
PAR	PARALLEL
PTN	PARTITION
PB	PANIC BAR
PL	PROPERTY LINE
PERF	PERFORATED
QT	QUARRY TILE
R	RISER
R	RADIUS
RD	ROOF DRAIN
REF	REFERENCE
REFR	REFRIGERATOR
RGTR	REGISTER
REINF	REINFORCEMENT
REQ	REQUIRED
RESIL	RESILIENT
RM	ROOM
RO	ROUGH OPENING
RWD	REDWOOD
REV	REVISION
RFEC	RECESSED FIRE EXTINGUISHER CABINET
RET	RETURN
RH	RIGHT HAND
RF	ROOF
RS	RESAWN
S	SOUTH
SF	SQUARE FEET
SC	SOLID CORE
SCH	SCHEDULE
SD	SOAP DISPENSER
SEC	SECTION
SLV	SHELF/SHELVING
SHR	SHOWER
SHT	SHEET
SIM	SIMILAR
SLD	SLIDING
SD	STORM DRAIN
SPEC	SPECIFICATION
SQ	SQUARE
SS	STAINLESS STEEL
SSK	SERVICE SINK
STF	STORE FRONT
STA	STATION
STD	STANDARD
STL	STEEL
STO	STORAGE
STR	STRUCTURAL
SUSP	SUSPENDED
SYM	SYMMETRICAL
SA	SUPPLY AIR
SD	SMOKE DETECTOR
SKL	SKYLIGHT
SPK	SPEAKER
SYS	SYSTEM
SHTG	SHEATHING
T	TREAD
TB	TOWEL BAR
TC	TOP OF CURB
TEL	TELEPHONE
TZ	TERAZZO
T&G	TONGUE AND GROOVE
THK	THICK
TP	TOP OF PAVEMENT
TPH	TOILET PAPER HOLDER
TV	TELEVISION
TW	TOP OF WALL
TYP	TYPICAL
THRES	THRESHOLD
TR	TRANSOM
TOS	TOP OF SLAB
TG	TEMPERED GLASS
TS	TOP OF STEEL
TKBD	TACK BOARD
UNF	UNFINISHED
UNO	UNLESS NOTED OTHERWISE
UR	URINAL
UL	UNDERWRITER'S LABORATORY
W	WEST
W/	WITH
WC	WATER CLOSET
WD	WOOD
W/O	WITHOUT
WP	WATERPROOF
WSCT	WAINSCOT
WT	WEIGHT
WH	WALL HUNG
WWF	WELDED WIRE FABRIC
W	WIDE/WIDTH
WIN	WINDOW
WB	WOOD BASE

ABBREVIATIONS

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

ACCESSIBLE PATH OF TRAVEL AS INDICATED ON PLAN IS A BARRIER-FREE ACCESS ROUTE WITHOUT ANY ABRUPT LEVEL CHANGES EXCEEDING ½" IF BEVELED AT 1:2 MAX SLOPE, OR VERTICAL LEVEL CHANGES NOT EXCEEDING ¼"MAX, AND AT LEAST 48" IN WIDTH. SURFACE IS STABLE, FIRM, AND SLIP RESISTANT. CROSS SLOPE DOES NOT EXCEED 2.1% AND SLOPE IN THE DIRECTION OF TRAVEL IS LESS THAN 5%, UNLESS OTHERWISE INDICATED. ACCESSIBLE PATH OF TRAVEL SHALL BE MAINTAINED FREE OF OVERHANGING OBSTRUCTIONS TO 80" MINIMUM, AND PROTRUDING OBJECTS GREATER THAN 4" PROJECTION FROM WALL AND ABOVE 27" AND LESS THAN 80".

WALKS AND SIDEWALKS: ALL WALKS AND SIDEWALKS THAT ARE INDICATED AS PATH OF TRAVEL SHALL BE BARRIER-FREE ACCESS ROUTE WITHOUT ANY ABRUPT VERTICAL CHANGES EXCEEDING 1/4" (CBC 11B-403.3)

DRINKING FOUNTAINS: ALL DRINKING FOUNTAINS SHALL CONFORM TO CBC.

GRATINGS: FOR GRATINGS LOCATED IN THE SURFACE OF ANY PEDESTRIAN WAY IN THE PATH OF TRAVEL, GRID/OPENING IN THE GRATINGS SHALL NOT ALLOW PASSAGE OF A SPHERE MORE THAN ½" DIAMETER. IF SUCH CONDITION OCCURS, PROVIDE MANUFACTURERS CUT SHEETS FOR REVIEW.

ACCESSIBILITY NOTES

REVIEWED BY

	DATE
DSA	
DISTRICT ARCHITECT	DATE
ASSISTANT DISTRICT ARCHITECT	DATE
OTHER	DATE
OTHER	DATE
OTHER	DATE
OTHER	DATE

CONSULTANT

ARCHITECT/CONSULTANT

LICENSED ARCHITECT — MATTHEW J. SILLMAN — C-18627 — 06/30/21 — STATE OF CALIFORNIA

PALO VERDE COLLEGE
WHERE KNOWLEDGE TAKES ROOT AND OPPORTUNITY GROWS

Palo Verde Community College District
1 College Drive
Blythe, CA 92225

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BLYTHE, CALIFORNIA

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SILLMAN WRIGHT ARCHITECTS

7515 Metropolitan Dr.
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T 619.294.7515
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GENERAL NOTES, ABBREVIATIONS, AND ACCESSIBILITY NOTES

COLLEGE SERVICES BUILDING
PALO VERDE COMMUNITY COLLEGE DISTRICT
West Sixth Avenue, Blythe, CA 92225

PROJECT NO. 20016 A.P.
20016 Palo Verde College
DATE 03/22/2021 DRAWN AH CHECKED MS
REVISIONS
SHEET NO. G-002
2 OF 38 SHEETS

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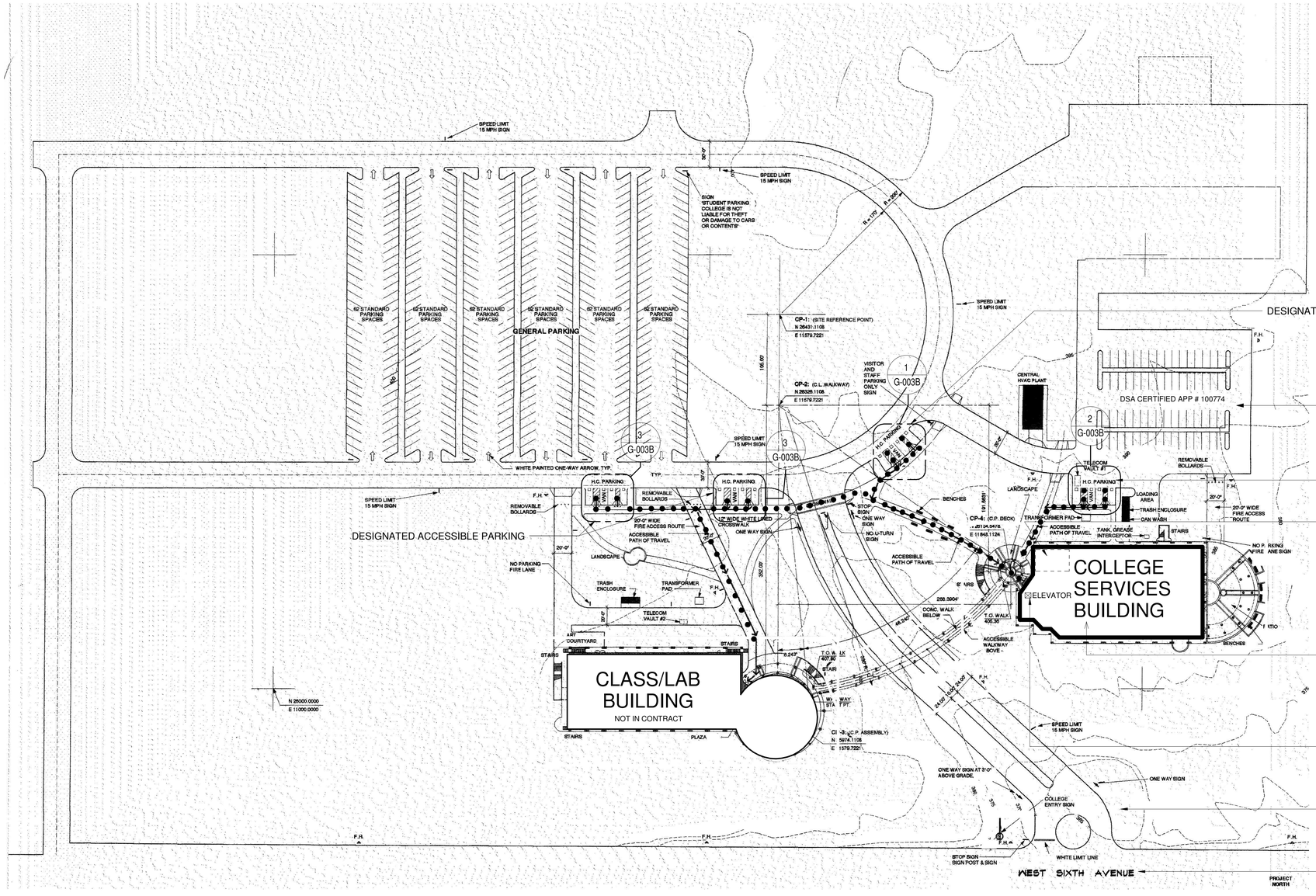

PARKING RATIO PER SECTION 11B.208.2

FACULTY PARKING SPACES	=	64 SPACES
REQ'D. ACCESSIBLE SPACES	=	3 SPACES
PROV'D. ACCESSIBLE SPACES	=	4 SPACES
PROV'D. ACCESSIBLE VAN SPACES	=	1 SPACES

OVERALL SITE PLAN
3/8" = 1'-0"

NOTE:

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ACCESSIBILITY LEGEND

●●●●●● INDICATES (E) PREVIOUSLY CERTIFIED PATH OF TRAVEL (P.O.T.) PER DSA 04-100774 & 04-116526

ACCESSIBLE PATH OF TRAVEL AS DEFINED BELOW:

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REVIEWED BY

	DISTRICT ARCHITECT	ASSISTANT DISTRICT ARCHITECT	OTHER	OTHER	OTHER	OTHER
DATE						

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CONSULTANT

ARCHITECT/CONSULTANT

LICENSED ARCHITECT — C-18627 — 06/30/21 — STATE OF CALIFORNIA

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www.sillmanwright.com

OVERALL SITE PLAN

COLLEGE SERVICES BUILDING
PALO VERDE COMMUNITY COLLEGE DISTRICT
West Sixth Avenue, Blythe, CA 92225

PROJECT NO. 20016 A.P.
20016 Palo Verde College
DATE 03/22/2021
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SHEET NO. G-003A
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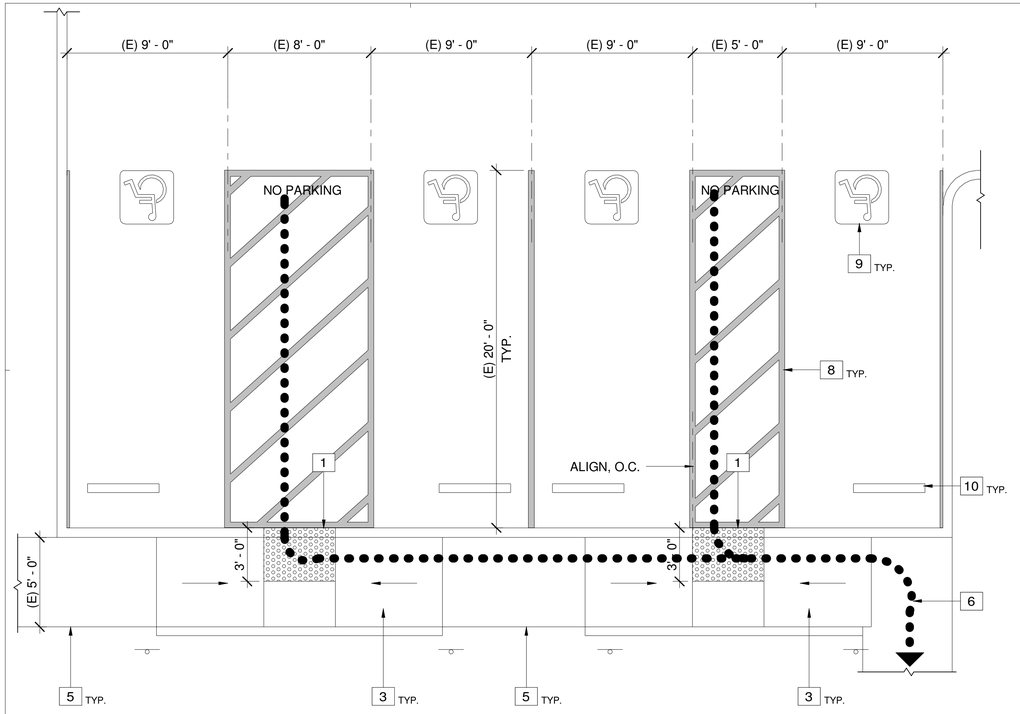
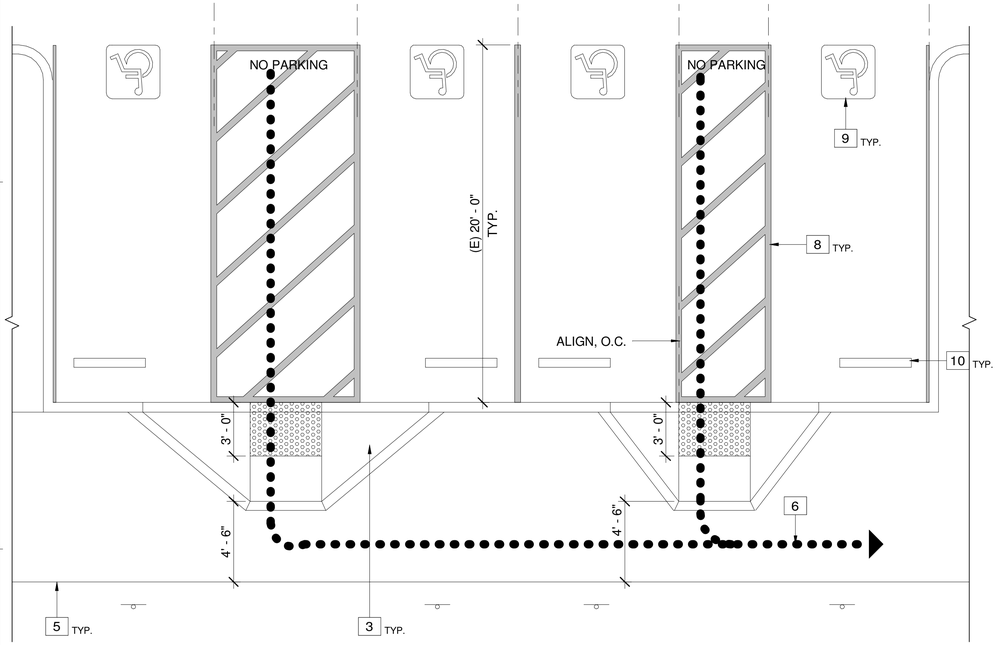


COLLEGE SERVICES BUILDING ACCESSIBLE PARKING ENLARGED PLAN 3

3

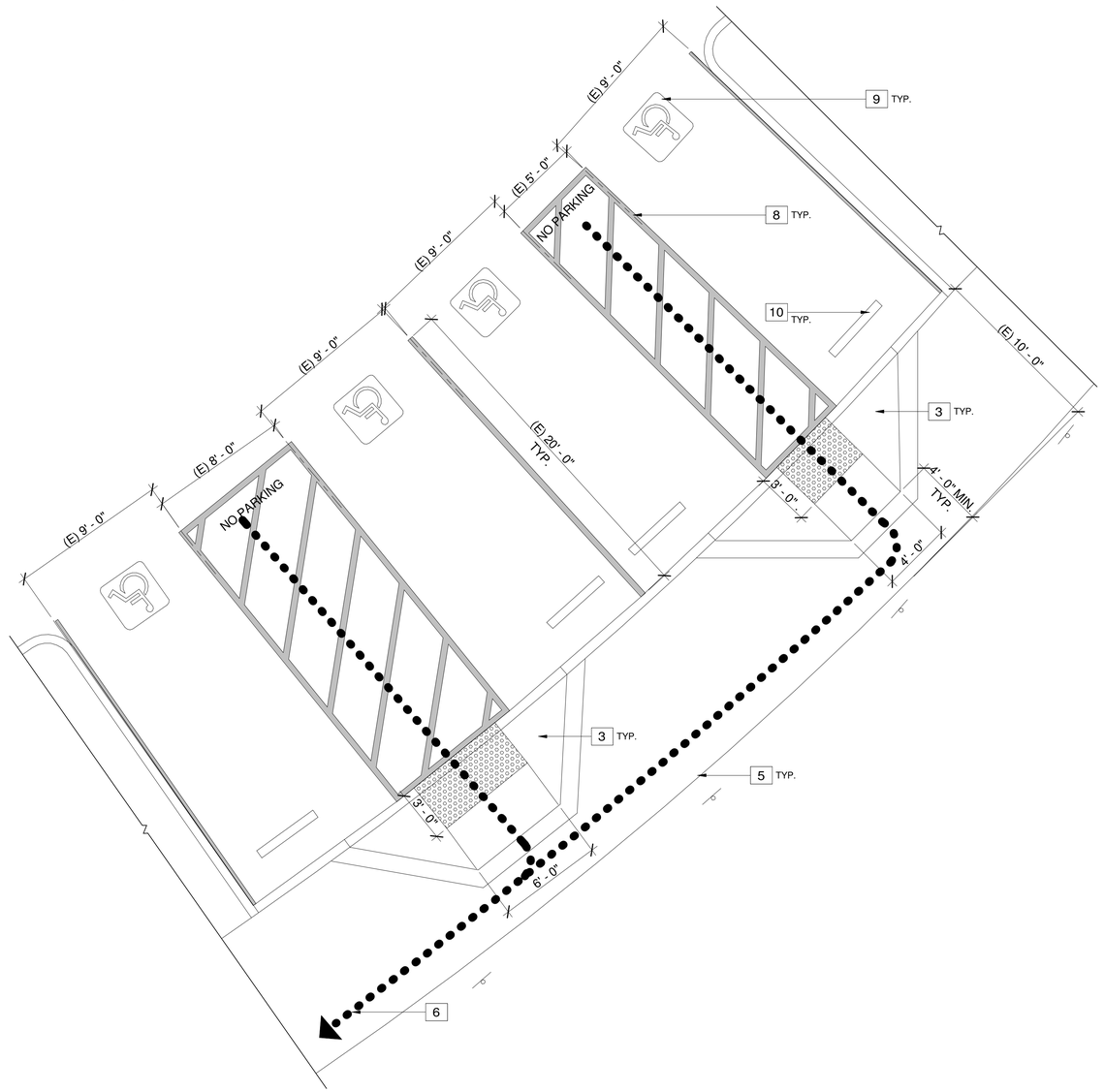
1/4" = 1'-0"



COLLEGE SERVICES BUILDING ACCESSIBLE PARKING ENLARGED PLAN 2

2

1/4" = 1'-0"



COLLEGE SERVICES BUILDING ACCESSIBLE PARKING ENLARGED PLAN 1

1

1/4" = 1'-0"

"FOR DSA ACCESSIBILTIY PURPOSES ONLY"

KEYNOTES

1	EXISTING P.O.T. PAVING FLUSH WITH RAMP
2	EXISTING ACCESSIBLE CURB CUT
3	EXISTING CONCRETE ACCESSIBLE CURB RAMP
4	EXISTING ACCESSIBLE STALL SIGNAGE LOCATION SEE DETAIL FOR 7/A801 FOR ADDITIONAL INFORMATION
5	EXISTING WALKWAY TO REMAIN, N.I.C.
6	P.O.T. TO COLLEGE SERVICES BUILDING, SEE G-003
7	NOT USED
8	EXISTING BLUE STRIPING TO REMAIN, N.I.C.
9	EXISTING DISABLED PARKING SIGNAGE, N.I.C.
10	EXISTING WHEEL STOP 10 TO REMAIN, N.I.C.

LEGEND

EXISTING ACCESSIBLE PATH OF TRAVEL

ACCESSIBLE PATH OF TRAVEL AS DEFINED BELOW:

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REVIEWED BY

	DATE
DISTRICT ARCHITECT	DATE
ASSISTANT DISTRICT ARCHITECT	DATE
OTHER	DATE
OTHER	DATE
OTHER	DATE
OTHER	DATE

DSA

CONSULTANT

ARCHITECT/CONSULTANT

LICENSED ARCHITECT MATTHEW T. S. WRIGHT C-18627 06/30/21 STATE OF CALIFORNIA

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C.S. BUILDING ACCESSIBLE PARKING ENLARGED PLANS

COLLEGE SERVICES BUILDING
PALO VERDE COMMUNITY COLLEGE DISTRICT
West Sixth Avenue, Blythe, CA 92225

PROJECT NO. 20016 A.P.

20016 Palo Verde College

DATE 03/22/2021 DRAWN Author CHECKED Checker

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SHEET NO. G-003B

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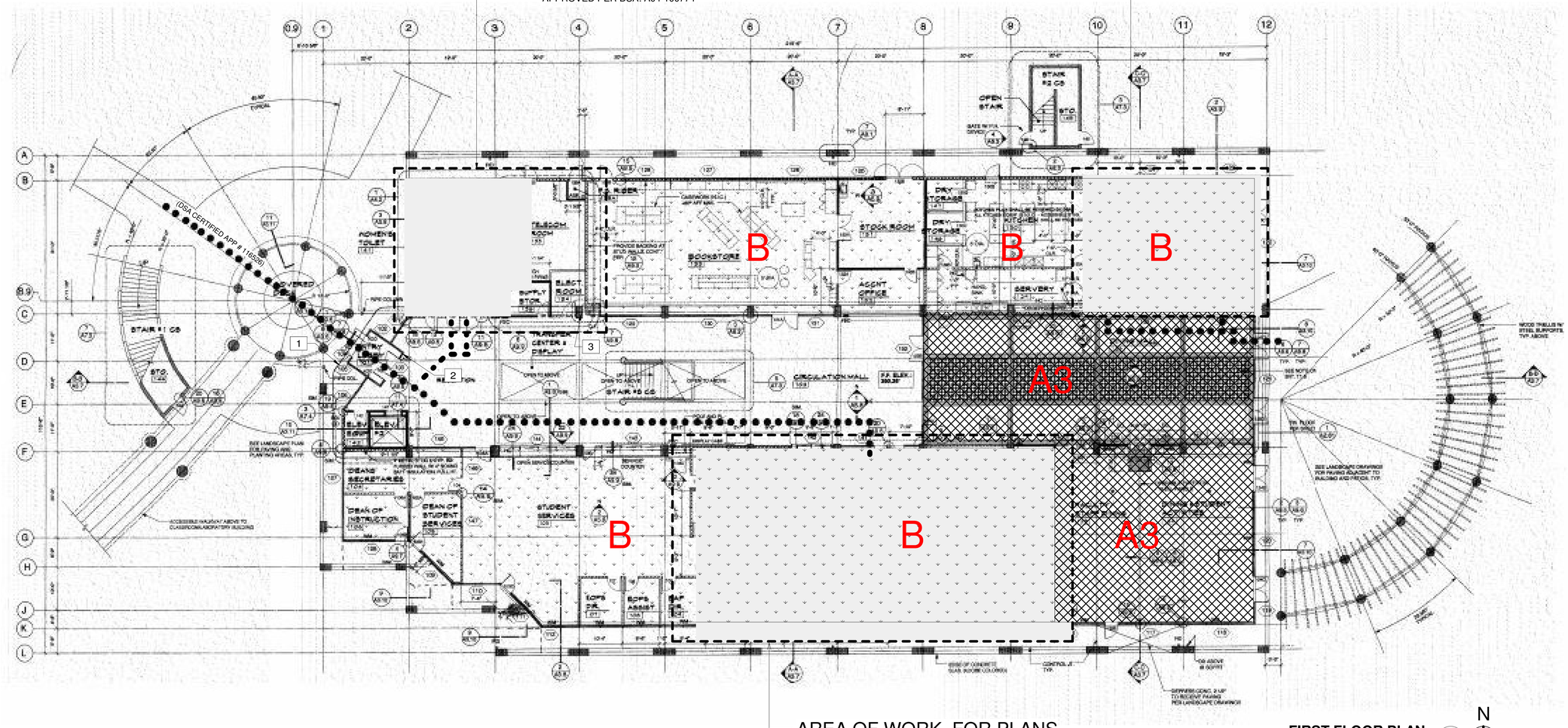
MEN'S AND WOMEN'S ACCESSIBLE RESTROOMS &
ACCESSIBLE DRINKING FOUNTAIN,
SEE SHEET G-005 FOR INFORMATION
APPROVED PER DSA: A04-100774

AREA OF WORK, FOR PLANS
SEE A-200 THRU A-203



AREA OF WORK, FOR PLANS
SEE A-200 THRU A-203

FIRST FLOOR PLAN 1
3/8" = 1'-0"

N

KEYNOTES

1 ASSISTIVE -LISTENING SIGNAGE, SEE DETAIL 4/A-801 FOR INFORMATION

2 EXISTING EXIT SIGNAGE, FOR ADDITIONAL INFORMATION SEE **1/A-801**

3 EXISTING CERTFIED ACCESSIBLE DRINKING FOUNTAIN

●●●●●● INDICATES (E) PREVIOUSLY CERTIFIED PATH OF TRAVEL (P.O.T.) PER DSA 04-100774 & 04-116526

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REVIEWED BY — DSA

	DISTRICT ARCHITECT	ASSISTANT DISTRICT ARCHITECT	OTHER	OTHER	OTHER	OTHER
DATE						

CONSULTANT

LICENSED ARCHITECT — C-18627 — 06/30/21 — STATE OF CALIFORNIA

ARCHITECT/CONSULTANT

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OVERALL BUILDING FIRST FLOOR PLAN

COLLEGE SERVICES BUILDING
PALO VERDE COMMUNITY COLLEGE DISTRICT
West Sixth Avenue, Blythe, CA 92225

PROJECT NO. 20016 A.P.
20016 Palo Verde College
DATE 03/22/2021
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SHEET NO. G-004
5 OF 38 SHEETS

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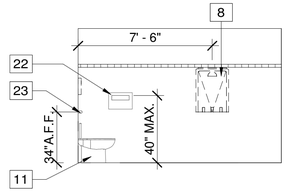
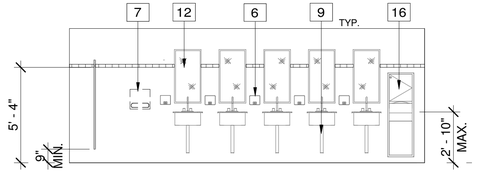


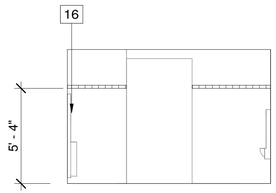
EXISTING MEN'S RESTROOM ELEVATIONS 2

1/4" = 1'-0"



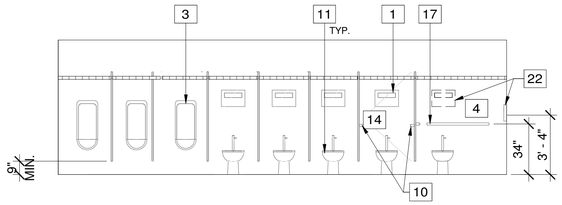
EXISTING MEN'S RESTROOM ELEVATIONS 3

1/4" = 1'-0"



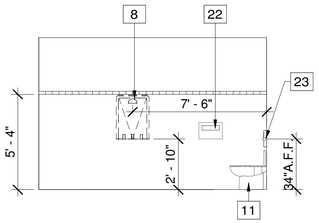
EXISTING MEN'S RESTROOM ELEVATIONS 4

1/4" = 1'-0"



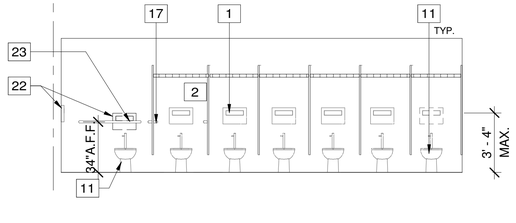
EXISTING MEN'S RESTROOM ELEVATIONS 5

1/4" = 1'-0"



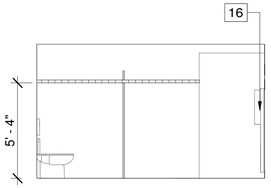
EXISTING WOMEN'S RESTROOM ELEVATIONS 6

1/4" = 1'-0"



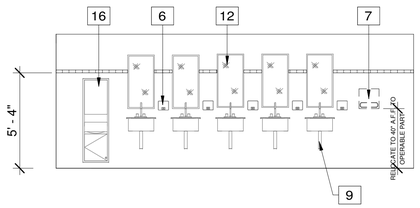
EXISTING WOMEN'S RESTROOM ELEVATIONS 7

1/4" = 1'-0"



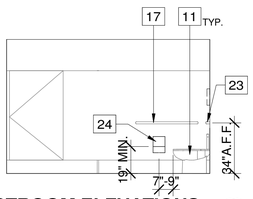
EXISTING WOMEN'S RESTROOM ELEVATIONS 8

1/4" = 1'-0"



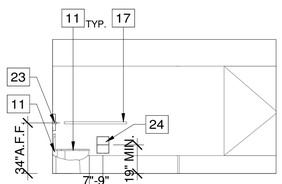
EXISTING WOMEN'S RESTROOM ELEVATIONS 9

1/4" = 1'-0"



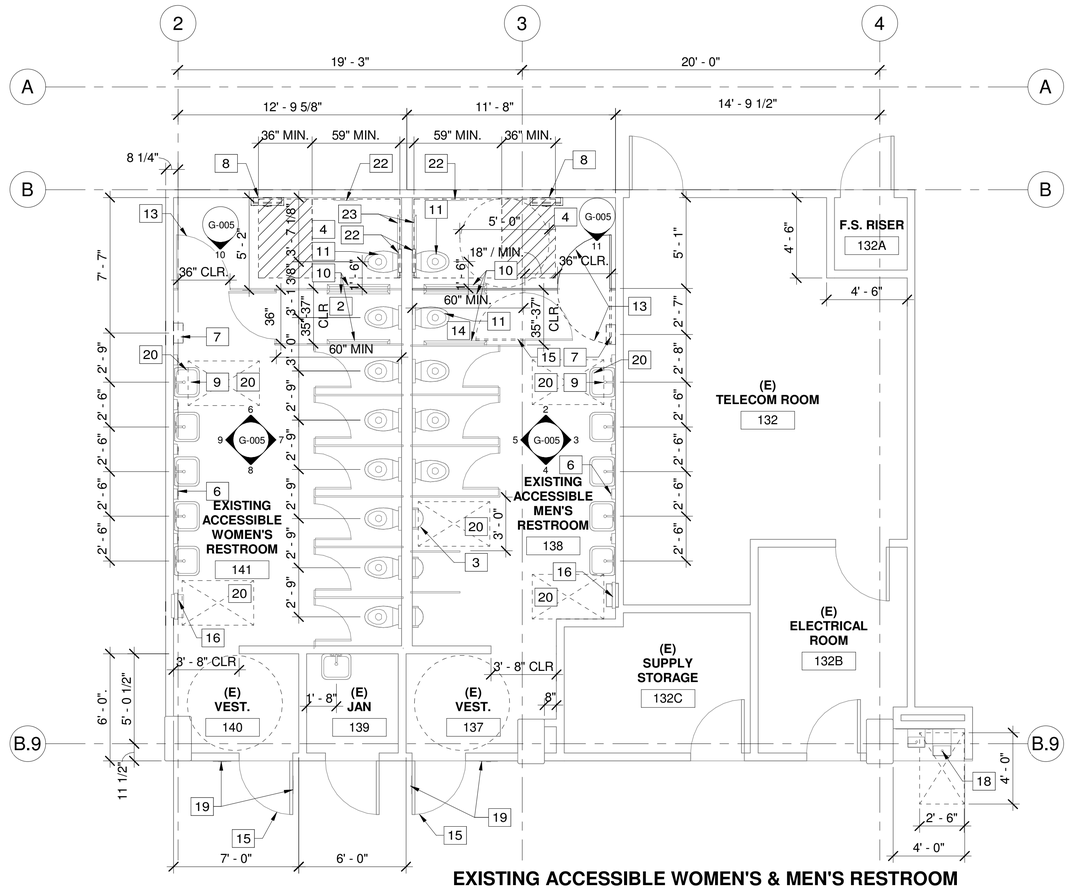
EXISTING MEN'S RESTROOM ELEVATIONS 11

1/4" = 1'-0"



EXISTING WOMEN'S RESTROOM ELEVATIONS 10

1/4" = 1'-0"



EXISTING ACCESSIBLE WOMEN'S & MEN'S RESTROOM PLANS 1

1/4" = 1'-0"

(APPROVED PER DSA: A-04-100774)

KEYNOTES

1	RELOCATE EXISTING SEAT COVER DISPENSER
2	EXISTING AMBULATORY STALL TO REMAIN
3	EXISTING ACCESSIBLE URINAL
4	EXISTING ACCESSIBLE STALL, CLEARANCES PER **4/A-800**
5	REPLACE EXISTING PAPER TOWEL DISPENSER WITH NEW 4" DEEP MAX. PAPER TOWER DISPENSER BY BOBRICK MODEL: B-262. REPAIR/PATCH WALL TO MATCH EXISTING AS NEEDED
6	RELOCATE EXISTING SOAP DISPENSER. REPAIR/PATCH WALL TO MATCH EXISTING AS NEEDED
7	REMOVE EXISTING TOWEL DISPENSER AND REPAIR/PATCH AND PAINT/TILE WALL TO MATCH EXISTING WALL
8	REMOVE EXISTING DIAPER CHANGING STATION, REPAIR/PATCH AND PAINT/TILE WALL TO MATCH EXISTING WALL
9	ALL WATER PIPES AND DRAIN PIPES SHALL BE INSULATED, WITH NO SHARP EDGES
10	EXISTING 42" GRAB BAR, EA SIDE, SEE **4/A-800**
11	EXISTING ACCESSIBLE WATER CLOSET TO REMAIN
12	EXISTING MIRROR TO REMAIN
13	NEW TOILET PARTITION DOOR PER SPECS.
14	CONVERT EXISTING STALL TO AMBULATORY STALL
15	ADJUST DOOR CLOSER SO THAT FORCE REQUIRED TO OPEN DOOR IS <5 LBS
16	REPLACE EXISTING TOWEL DISPENSER WITH NEW 4" DEEP MAX. PAPER TOWEL DISPENSER/WASTE RECEPTACLE BOBRICK #B-3942
17	EXISTING GRAB BAR
18	EXISTING DRINKING FOUNTAIN CONFORMS WITH ALL ACCESSIBLE CLEARANCE REQUIREMENTS AS SHOWN IN DETAIL 3/A-800
19	EXISTING RESTROOM SIGNAGE, PER DETAIL 5&6/A801
20	EXISTING ACCESSIBLE 30"x48" CLEAR AREA
21	EXISTING ACCESSIBLE LAVATORY TO REMAIN
22	RELOCATED EXISTING SEAT DISPENSER TO ADJACENT WALL SEE 4/A-800 FOR MOUNTING HEIGHT
23	EXISTING 36" LONG GRAB BAR @ 34" A.F.F., SEE DETAIL 4/A-800
24	EXISTING SURFACE MOUNTED TOILET TISSUE DISPENSER TO REMAIN

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EXISTING ACCESSIBLE RESTROOM PLAN

COLLEGE SERVICES BUILDING
PALO VERDE COMMUNITY
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West Sixth Avenue, Blythe, CA 92225

PROJECT NO. 20016 A.P.
20016 Palo Verde College
DATE 03/22/2021
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6 OF 38 SHEETS

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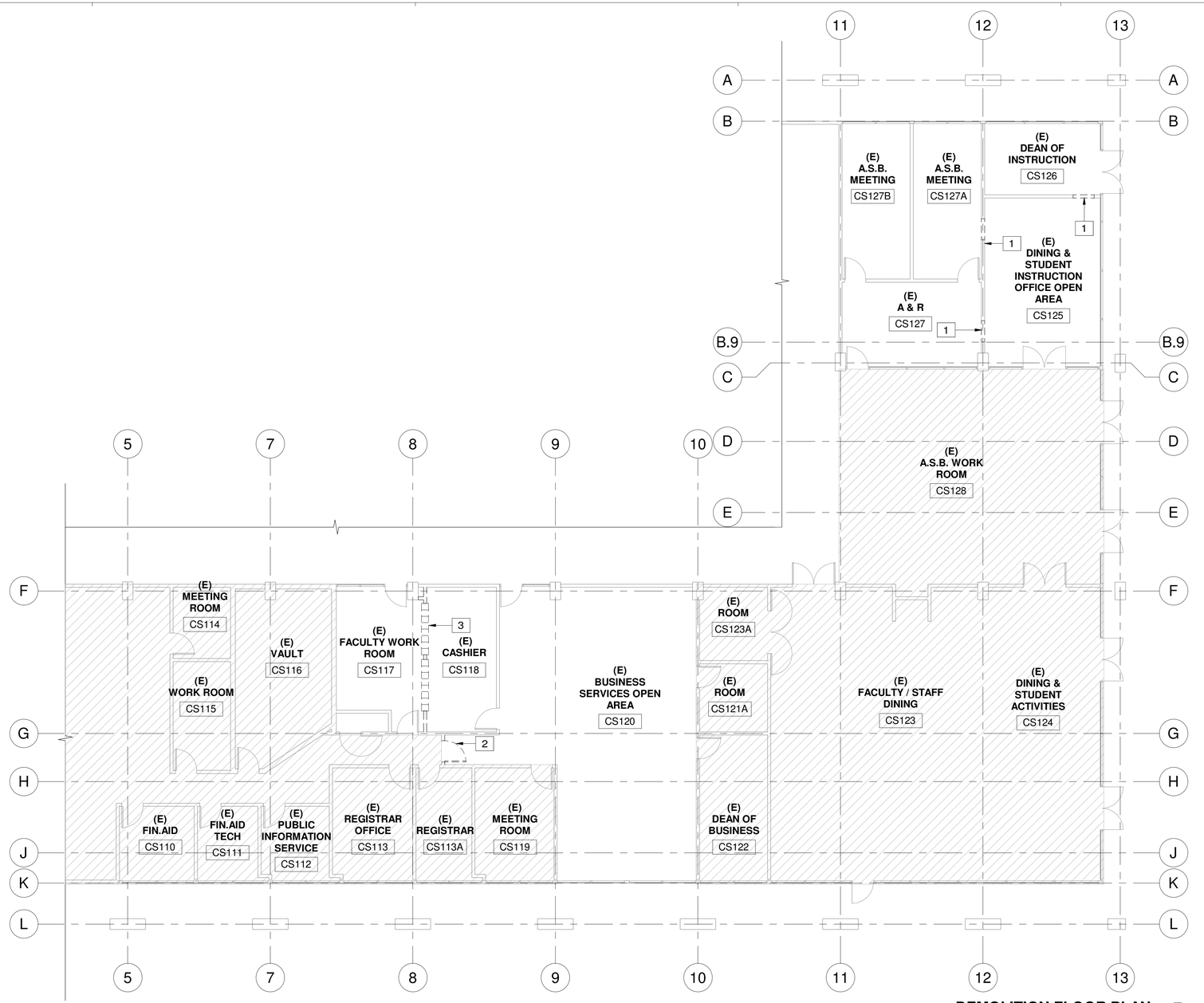

DEMOLITION FLOOR PLAN 1

1/8" = 1'-0"

KEYNOTES

1 PORTION OF EXISTING WALL TO BE REMOVED FOR NEW DOOR

2 REMOVE EXISTING WALL AND DOOR

3 REMOVE EXISTING CASEWORK

LEGEND

EXISTING WALL TO REMAIN

EXISTING WALL TO BE DEMOLISHED

NOT IN SCOPE AREA

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DEMOLITION FLOOR PLAN

COLLEGE SERVICES BUILDING

PALO VERDE COMMUNITY COLLEGE DISTRICT
West Sixth Avenue, Blythe, CA 92225

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20016 Palo Verde College
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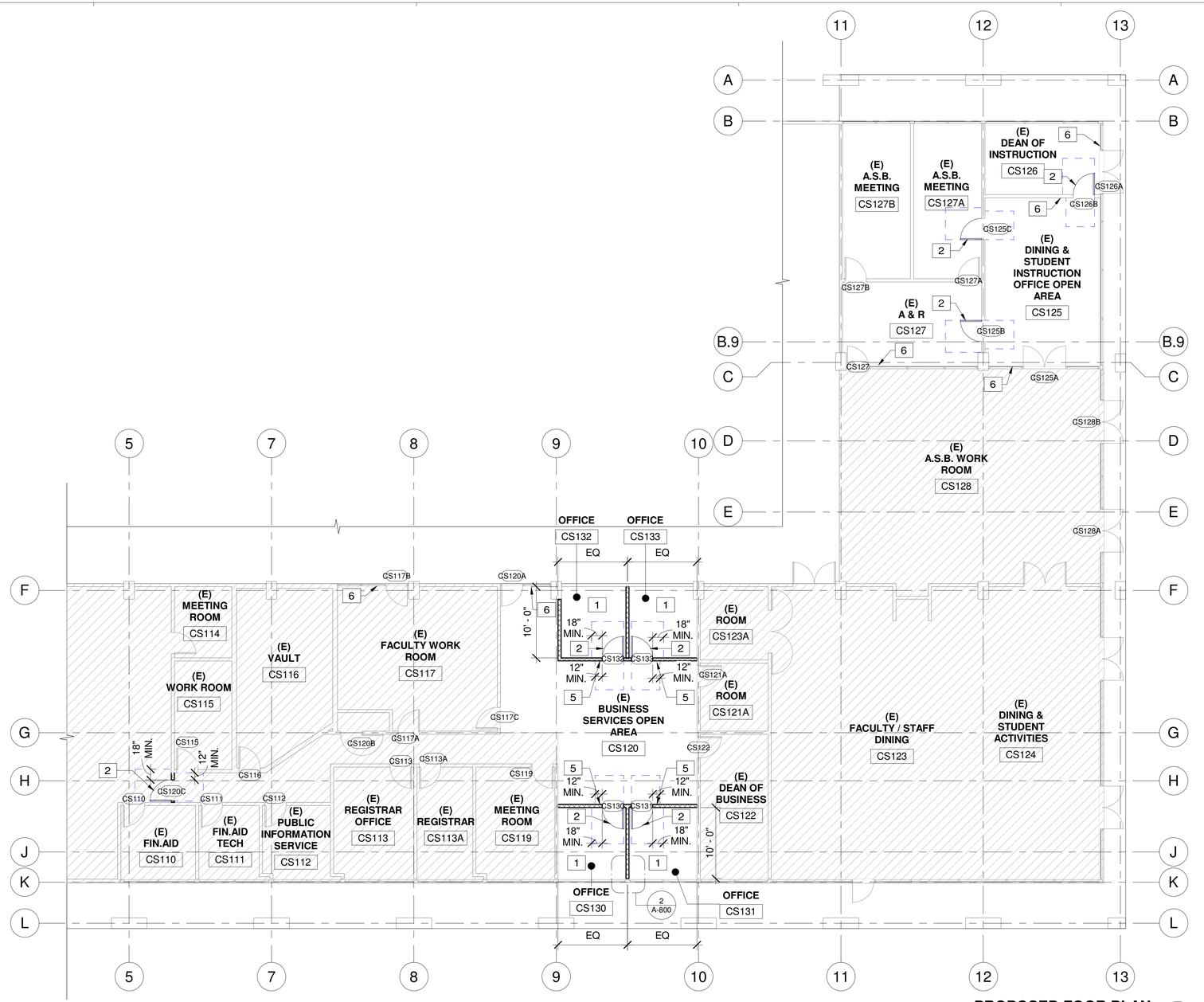

PROPOSED FOOR PLAN 1

1/8" = 1'-0"

KEYNOTES

1 NEW VINYL SHEET FLOORING, PER SPECIFICATION **SECTION 09 65 16** (RESILIENT FLOORING SHALL BE STABLE, FIRM AND SLIP RESISTANT PER CBC SECTION 11B-302.1)

2 NEW DOOR PER SCHEDULE

5 NEW TACTILE ROOM I.D. SIGN, SEE **2/A-801**

6 NEW EXIT ROUTE EXIT SIGNAGE, SEE **1/A-801**

LEGEND

EXISTING WALL TO REMAIN

NEW METAL STUD WALL WITH 5/8" GYP BD BOTH SIDES, SEE DETAIL 1/A-800

NOT IN SCOPE AREA

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PROPOSED FLOOR PLAN

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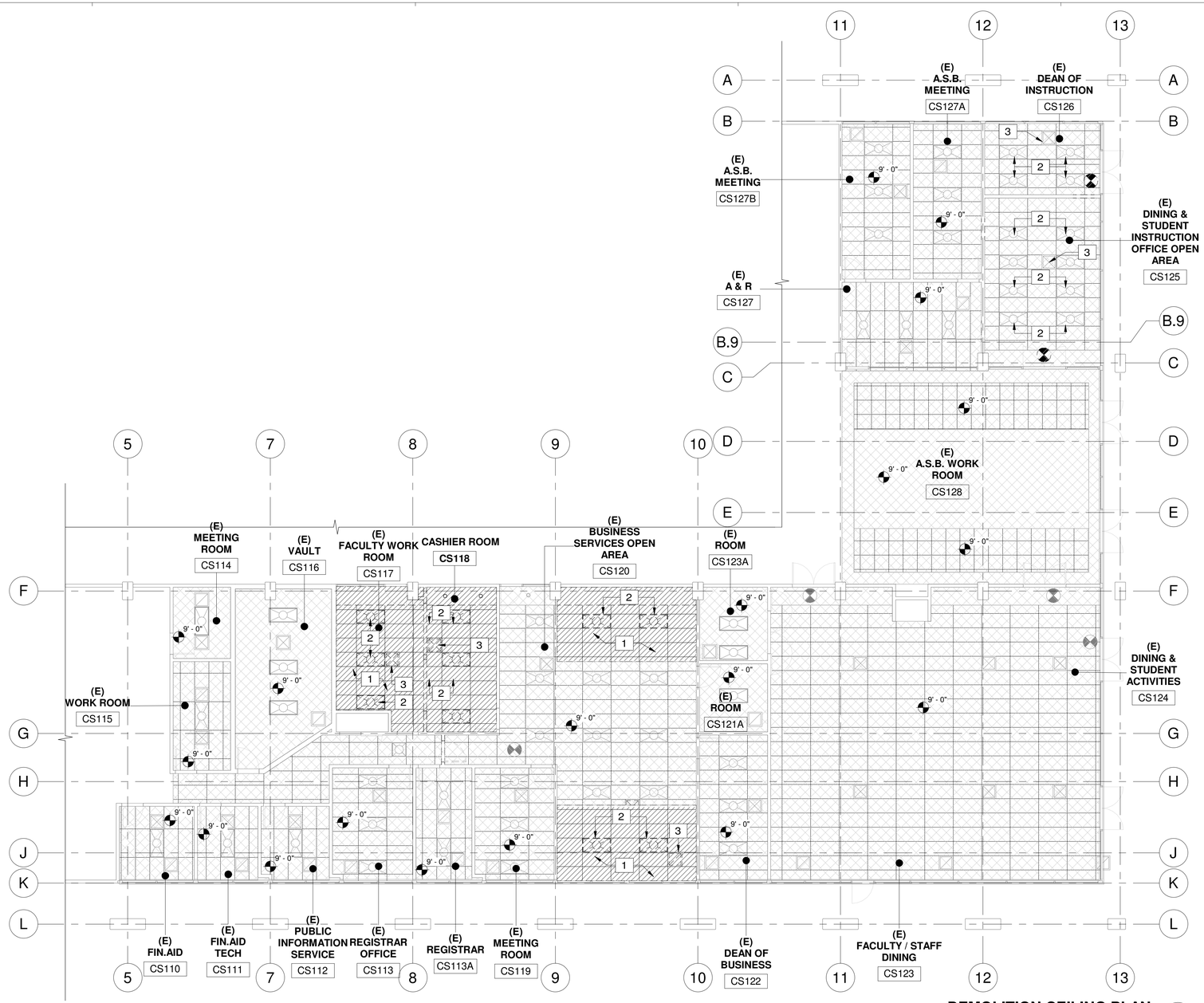

DEMOLITION CEILING PLAN 1

1/8" = 1'-0"

KEYNOTES

1. EXISTING PORTION OF CEILING TO BE REMOVED.
2. EXISTING LIGHT TO BE REMOVED. REFER TO PROPOSED CEILING PLAN FOR NEW LOCATION IF APPLICABLE -RELINQUISH EXCESS TO PVCC
3. EXISTING MECHANICAL REGISTER TO BE REMOVED. REFER TO MECHANICAL PLANS FOR NEW LOCATIONS

LEGEND

- EXISTING WALL TO REMAIN
- EXISTING WALL TO BE DEMOLISHED
- EXISTING PORTION OF CEILING TO BE REMOVED.
- EXISTING CEILING TO REMAIN
- EXISTING TO REMAIN 2X4 LIGHT FIXTURE
- EXISTING TO REMAIN 2X2 LIGHT FIXTURE

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DEMOLITION CEILING PLAN

COLLEGE SERVICES BUILDING
PALO VERDE COMMUNITY COLLEGE DISTRICT
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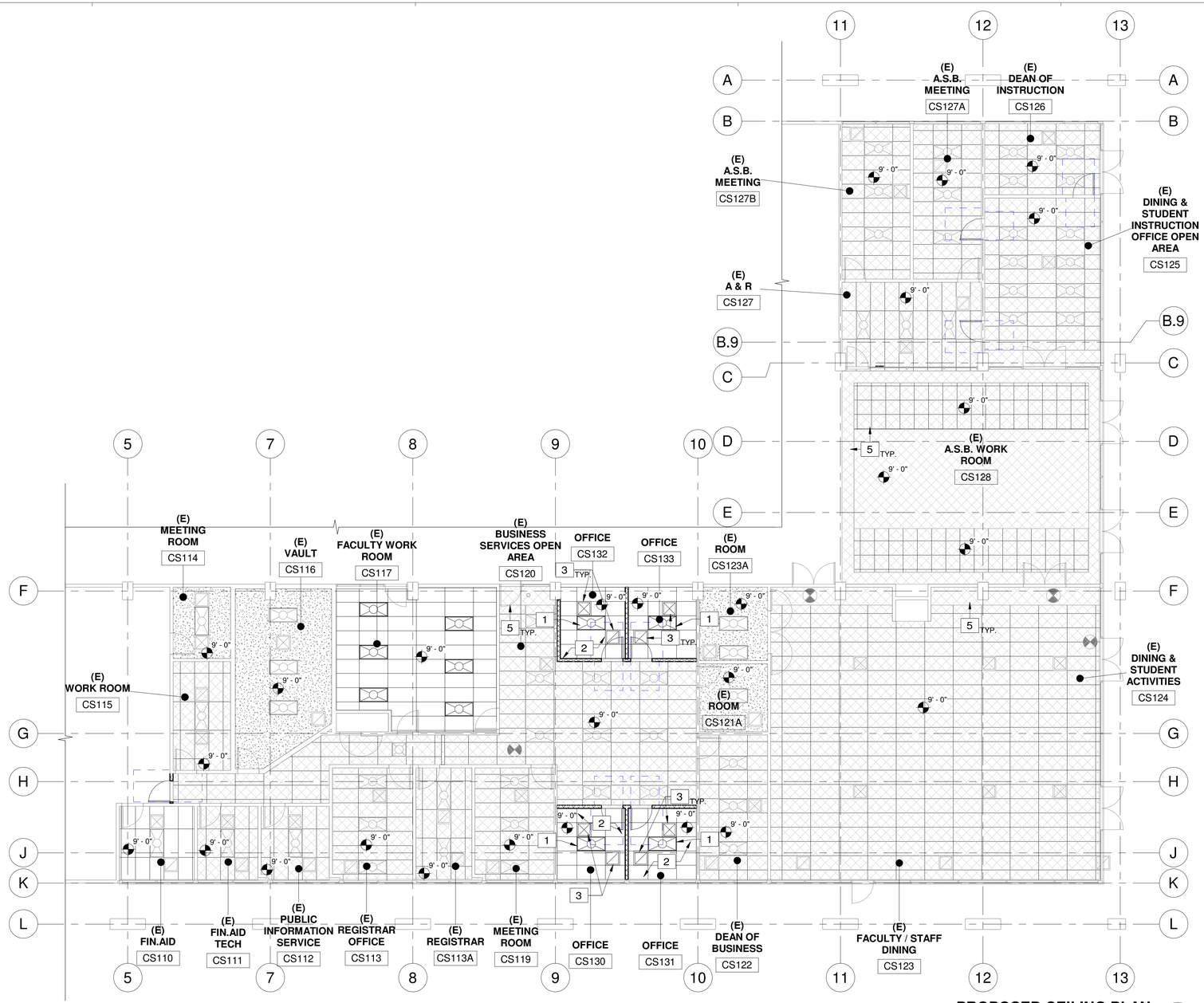

PROPOSED CEILING PLAN 1

1/8" = 1'-0"

KEYNOTES

1. NEW LIGHT FIXTURE -SEE ELECTRICAL DRAWINGS - REUSE EXISTING LIGHT FIXTURE IF APPLICABLE
2. NEW ACOUSTIC CEILING TILES PER DETAILS **2 & 3/A-802** SEE ACOUSTIC CEILING NOTES PER **1 & 4/A-802**
3. MECHANICAL REGISTER PER MECHANICAL DRAWINGS
5. EXISTING GYP BD SOFFIT TO REMAIN

LEGEND

- EXISTING WALL TO REMAIN
- NEW METAL STUD WALL WITH 5/8" GYP BD BOTH SIDES, SEE DETAIL **1/A-800** & STRUCTURAL PLANS
- NEW T-BAR CEILING WITH ACOUSTIC TILE TO MATCH EXISTING. SEE **2 & 3/A-802**
- EXISTING CEILING TO REMAIN SHOW HATCH AREA ON PLAN
- EXISTING GYP. CEILING TO REMAIN
- 2X4 LIGHT FIXTURE
- 2X2 LIGHT FIXTURE
- 6" RECESSED CAN LIGHT
- MECHANICAL RETURN REGISTER SEE MECHANICAL PLANS - REFER TO **7&8/A-802 & 1/A-803** FOR DUCT ANCHORAGE AND FOR VAV BOX ANCHORAGE
- MECHANICAL SUPPLY REGISTER, SEE MECHANICAL PLANS - REFER TO **7&8/A-802 & 1/A-803** FOR DUCT ANCHORAGE AND FOR VAV BOX ANCHORAGE

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PROPOSED CEILING PLAN

COLLEGE SERVICES BUILDING

PALO VERDE COMMUNITY COLLEGE DISTRICT
West Sixth Avenue, Blythe, CA 92225

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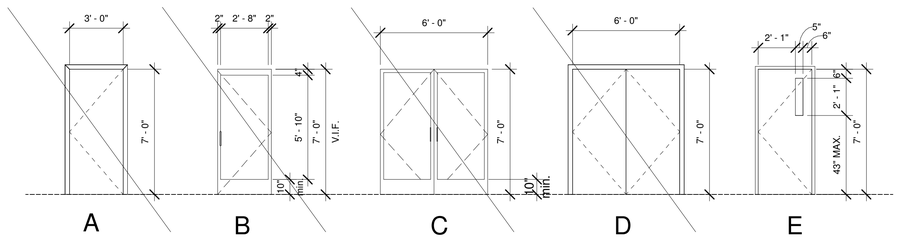
DOOR SCHEDULE

Mark	Phase Created	Width	Height	DOOR MATERIAL	FRAME MATERIAL	Elevation	H.W. Group	Reference Head	Reference Jamb	Reference Sill	REMARKS (U.N.O. ALL EXISTING DOORS & HARDWARE PER A04-10074)
126K	Existing	0' - 0"	0' - 0"	GLASS	ALUMN						
126N	Existing	0' - 0"	0' - 0"	GLASS	ALUMN						
126O	Existing	0' - 0"	0' - 0"	GLASS	ALUMN						
126P	Existing	0' - 0"	0' - 0"	GLASS	ALUMN						
126Q	Existing	0' - 0"	0' - 0"	GLASS	ALUMN						
126R	Existing	0' - 0"	0' - 0"	GLASS	ALUMN						
CS110	Existing	3' - 0"	7' - 0"	SC WOOD	H.M.	A	E1	(E)	(E)	(E)	EXISTING TO REMAIN, SCHLAGE NEPTUNE LEVER HARDWARE
CS111	Existing	3' - 0"	7' - 0"	SC WOOD	H.M.	A	E1	(E)	(E)	(E)	EXISTING TO REMAIN, SCHLAGE NEPTUNE LEVER HARDWARE
CS112	Existing	3' - 0"	7' - 0"	SC WOOD	H.M.	A	E1	(E)	(E)	(E)	EXISTING TO REMAIN, SCHLAGE NEPTUNE LEVER HARDWARE
CS113	Existing	3' - 0"	7' - 0"	SC WOOD	H.M.	A	E1	(E)	(E)	(E)	EXISTING TO REMAIN, SCHLAGE NEPTUNE LEVER HARDWARE
CS113A	Existing	3' - 0"	7' - 0"	SC WOOD	H.M.	A	E1	(E)	(E)	(E)	EXISTING TO REMAIN, SCHLAGE NEPTUNE LEVER HARDWARE
CS114	Existing	3' - 0"	7' - 0"	SC WOOD	H.M.	A	E1	(E)	(E)	(E)	EXISTING TO REMAIN, SCHLAGE NEPTUNE LEVER HARDWARE
CS115	Existing	3' - 0"	7' - 0"	SC WOOD	H.M.	A	E1	(E)	(E)	(E)	EXISTING TO REMAIN, SCHLAGE NEPTUNE LEVER HARDWARE
CS116	Existing	3' - 0"	7' - 0"	SC WOOD	H.M.	A	E1	(E)	(E)	(E)	EXISTING TO REMAIN, SCHLAGE NEPTUNE LEVER HARDWARE
CS117A	Existing	3' - 0"	7' - 0"	SC WOOD	H.M.	A	E1	(E)	(E)	(E)	EXISTING TO REMAIN, SCHLAGE NEPTUNE LEVER HARDWARE
CS117B	Existing	3' - 0"	7' - 0"	GLASS	ALUMN	B	E1	(E)	(E)	(E)	EXISTING TO REMAIN
CS117C	Existing	3' - 0"	7' - 0"	SC WOOD	H.M.	A	E1	(E)	(E)	(E)	EXISTING TO REMAIN, SCHLAGE NEPTUNE LEVER HARDWARE
CS119	Existing	3' - 0"	7' - 0"	SC WOOD	H.M.	A	E1	(E)	(E)	(E)	EXISTING TO REMAIN, SCHLAGE NEPTUNE LEVER HARDWARE
CS120A	Existing	3' - 0"	7' - 0"	GLASS	ALUMN	B	E1	(E)	(E)	(E)	EXISTING TO REMAIN
CS120B	Existing	3' - 0"	7' - 0"	SC WOOD	H.M.	A	E1	(E)	(E)	(E)	EXISTING TO REMAIN, SCHLAGE NEPTUNE LEVER HARDWARE
CS120C	New Construction	3' - 0"	7' - 0"	SC WOOD	H.M.	E	01	6/A-800	6/A-800	9/A-800	EXISTING TO REMAIN
CS121A	Existing	3' - 0"	7' - 0"	SC WOOD	H.M.	A	E1	(E)	(E)	(E)	EXISTING TO REMAIN, SCHLAGE NEPTUNE LEVER HARDWARE
CS122	Existing	3' - 0"	7' - 0"	SC WOOD	H.M.	A	E1	(E)	(E)	(E)	EXISTING TO REMAIN, SCHLAGE NEPTUNE LEVER HARDWARE
CS123A	Existing	6' - 0"	7' - 0"	SC WOOD	H.M.	D	E2	(E)	(E)	(E)	EXISTING TO REMAIN, SCHLAGE NEPTUNE LEVER HARDWARE
CS123B	Existing	6' - 0"	7' - 0"	SC WOOD	H.M.	D	E2	(E)	(E)	(E)	EXISTING TO REMAIN, SCHLAGE NEPTUNE LEVER HARDWARE
CS123C	Existing	3' - 0"	7' - 0"	GLASS	ALUMN	B	E1	(E)	(E)	(E)	EXISTING TO REMAIN
CS124A	Existing	6' - 0"	7' - 0"	GLASS	ALUMN	C	E2	(E)	(E)	(E)	EXISTING TO REMAIN
CS124B	Existing	6' - 0"	7' - 0"	GLASS	ALUMN	C	E2	(E)	(E)	(E)	EXISTING TO REMAIN
CS124C	Existing	6' - 0"	7' - 0"	SC WOOD	H.M.	D	E2	(E)	(E)	(E)	EXISTING TO REMAIN, SCHLAGE NEPTUNE LEVER HARDWARE
CS125A	Existing	6' - 0"	7' - 0"	GLASS	ALUMN	C	E2	(E)	(E)	(E)	EXISTING TO REMAIN
CS125B	New Construction	3' - 0"	7' - 0"	SC WOOD	H.M.	E	02	6/A-800	6/A-800	6/A-800	
CS125C	New Construction	3' - 0"	7' - 0"	SC WOOD	H.M.	E	02	6/A-800	6/A-800	6/A-800	
CS126A	Existing	6' - 0"	7' - 0"	GLASS	ALUMN	C	E2	(E)	(E)	(E)	EXISTING TO REMAIN
CS126B	New Construction	3' - 0"	7' - 0"	SC WOOD	H.M.	E	03	6/A-800	6/A-800	6/A-800	
CS127	Existing	3' - 0"	7' - 0"	GLASS	ALUMN	B	E1	(E)	(E)	(E)	EXISTING TO REMAIN
CS127A	Existing	3' - 0"	7' - 0"	SC WOOD	H.M.	A	E1	(E)	(E)	(E)	EXISTING TO REMAIN, SCHLAGE NEPTUNE LEVER HARDWARE
CS127B	Existing	3' - 0"	7' - 0"	SC WOOD	H.M.	A	E1	(E)	(E)	(E)	EXISTING TO REMAIN, SCHLAGE NEPTUNE LEVER HARDWARE
CS128A	Existing	6' - 0"	7' - 0"	GLASS	ALUMN	C	E2	(E)	(E)	(E)	EXISTING TO REMAIN
CS128B	Existing	6' - 0"	7' - 0"	GLASS	ALUMN	C	E2	(E)	(E)	(E)	EXISTING TO REMAIN
CS130	New Construction	3' - 0"	7' - 0"	SC WOOD	H.M.	E	02	6/A-800	6/A-800	6/A-800	
CS131	New Construction	3' - 0"	7' - 0"	SC WOOD	H.M.	E	02	6/A-800	6/A-800	6/A-800	
CS132	New Construction	3' - 0"	7' - 0"	SC WOOD	H.M.	E	02	6/A-800	6/A-800	6/A-800	
CS133	New Construction	3' - 0"	7' - 0"	SC WOOD	H.M.	E	02	6/A-800	6/A-800	6/A-800	

DOOR SCHEDULE 1

1/4" = 1'-0"



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DOOR SCHEDULE

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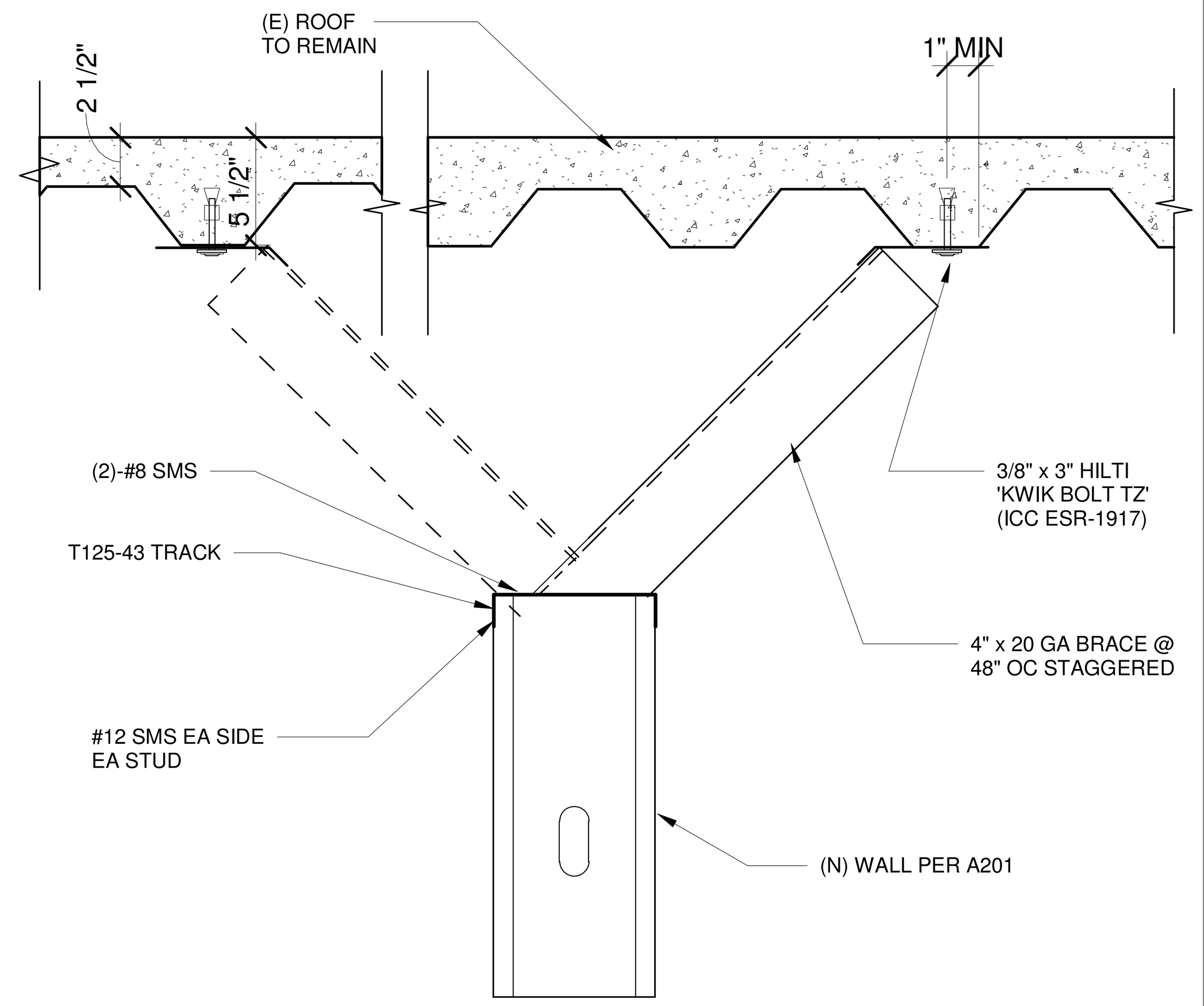
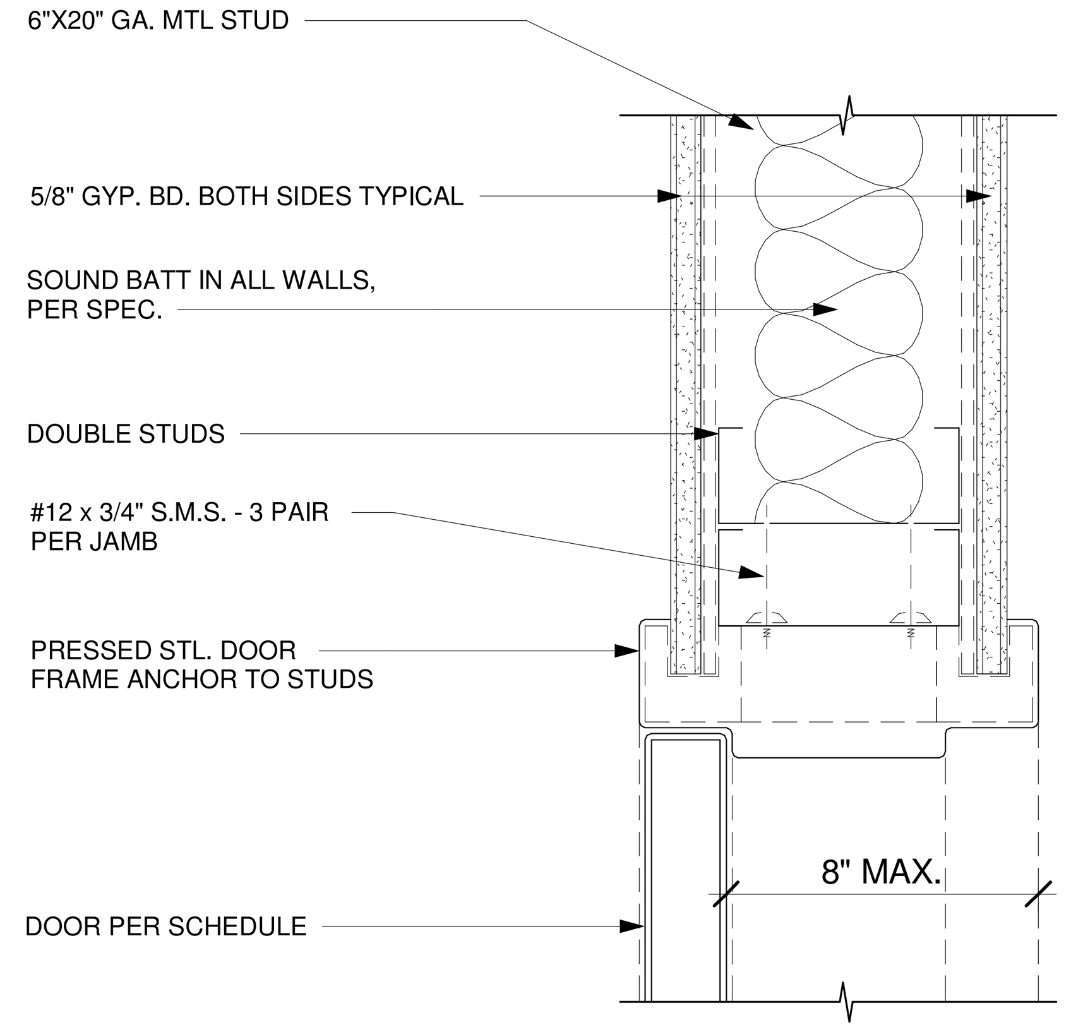


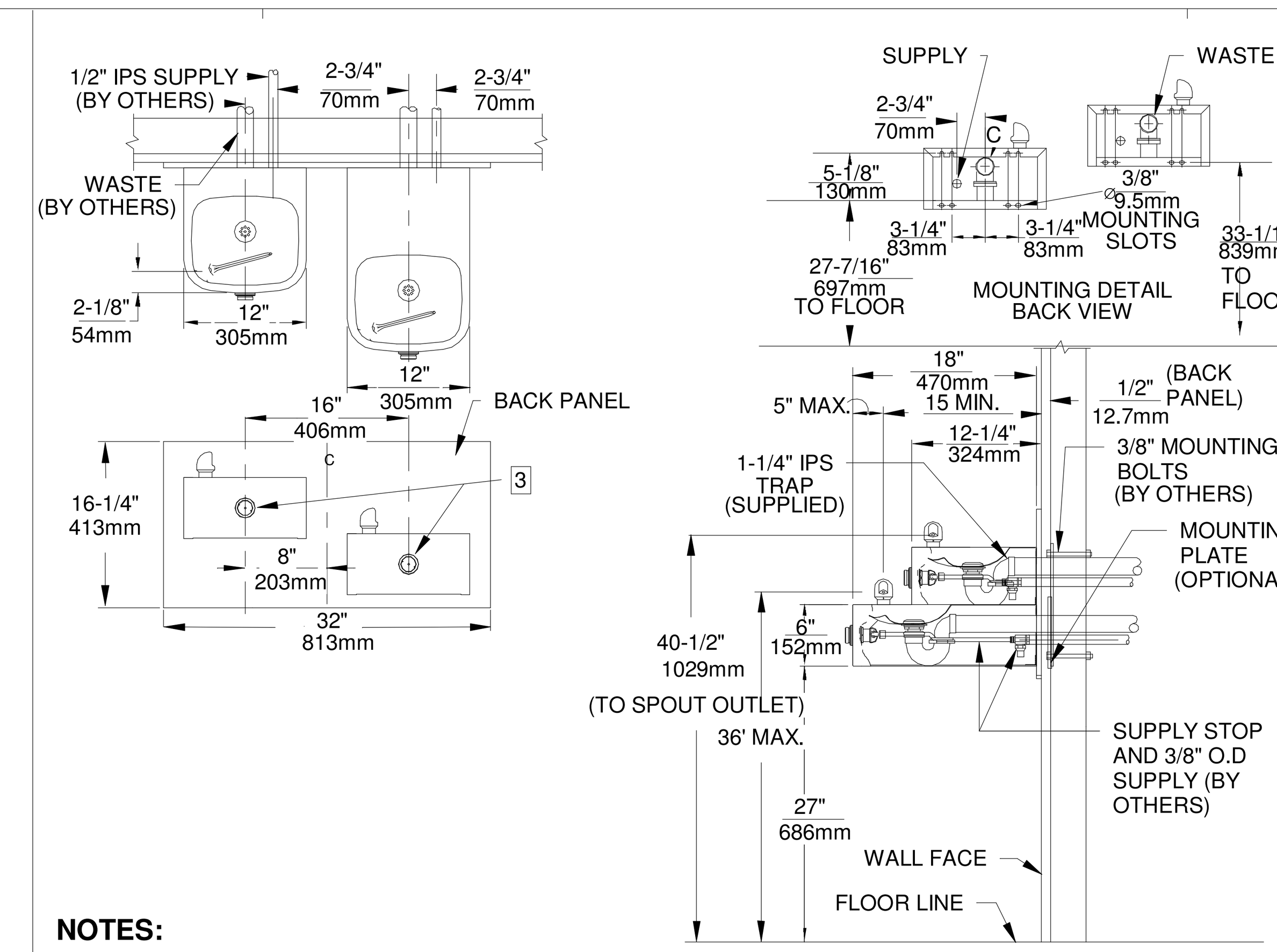
INTERIOR NON-BEARING WALL TO ROOF 9

1 1/2" = 1'-0"



INTERIOR DOOR HEAD/JAMB 6

3" = 1'-0"

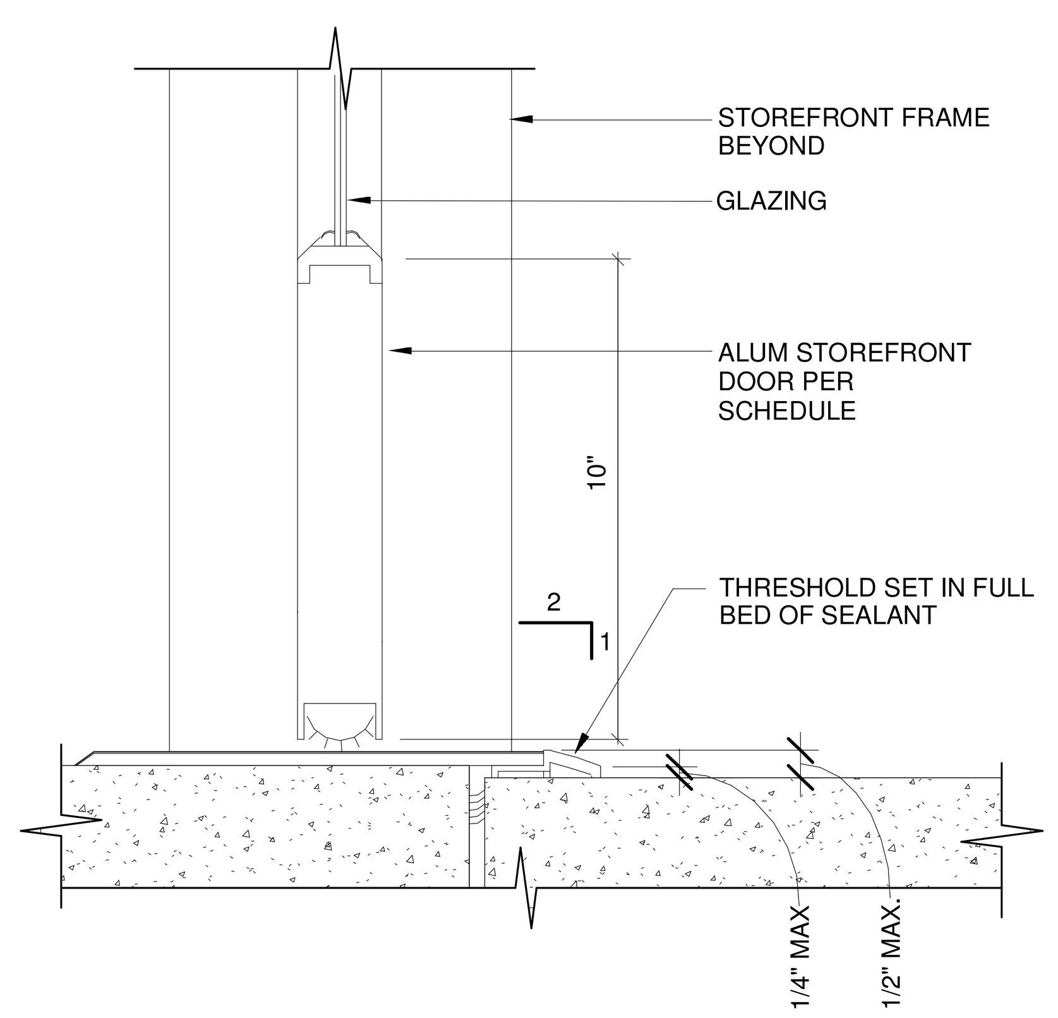


NOTES:

1. HOLD ROUGH - IN DIMENSIONS + 1/4" (6.4mm).
2. WHEN INSTALLING THIS UNIT, LOCAL, STATE , OR FEDERAL CODES SHOULD BE ADHERED TO FOR INSTALLATION HEIGHTS OTHER THAN SHOWN, DIMENSIONS MARKED (*) MUST BE ADJUSTED ACCORDINGLY.
3. REFER TO 5874/VRK5874 OPERATION AND MAINTENANCE MANUAL FOR PUSH BUTTON AND VALVE INSTALLATION / MAINTENANCE INSTRUCTION.

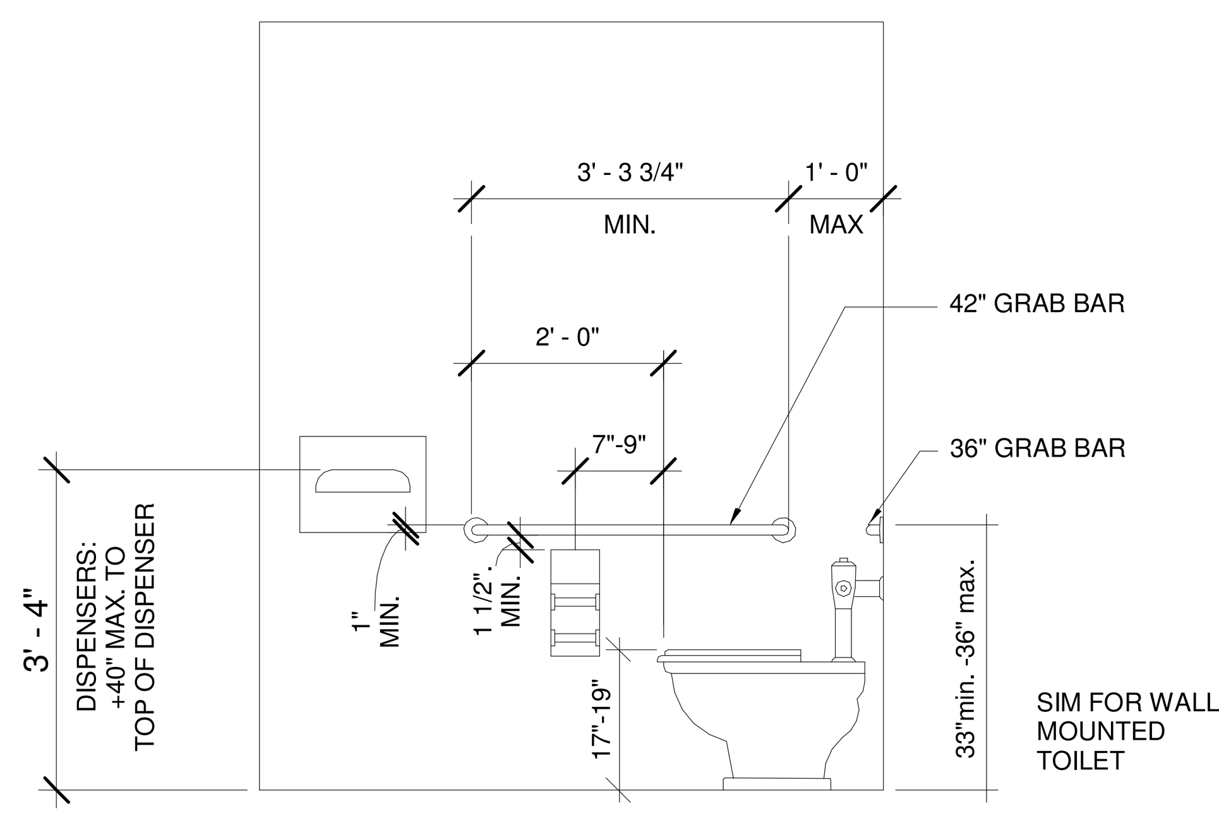
EXISTING ACCESSIBLE DRINKING FOUNTAIN 3

3/4" = 1'-0"



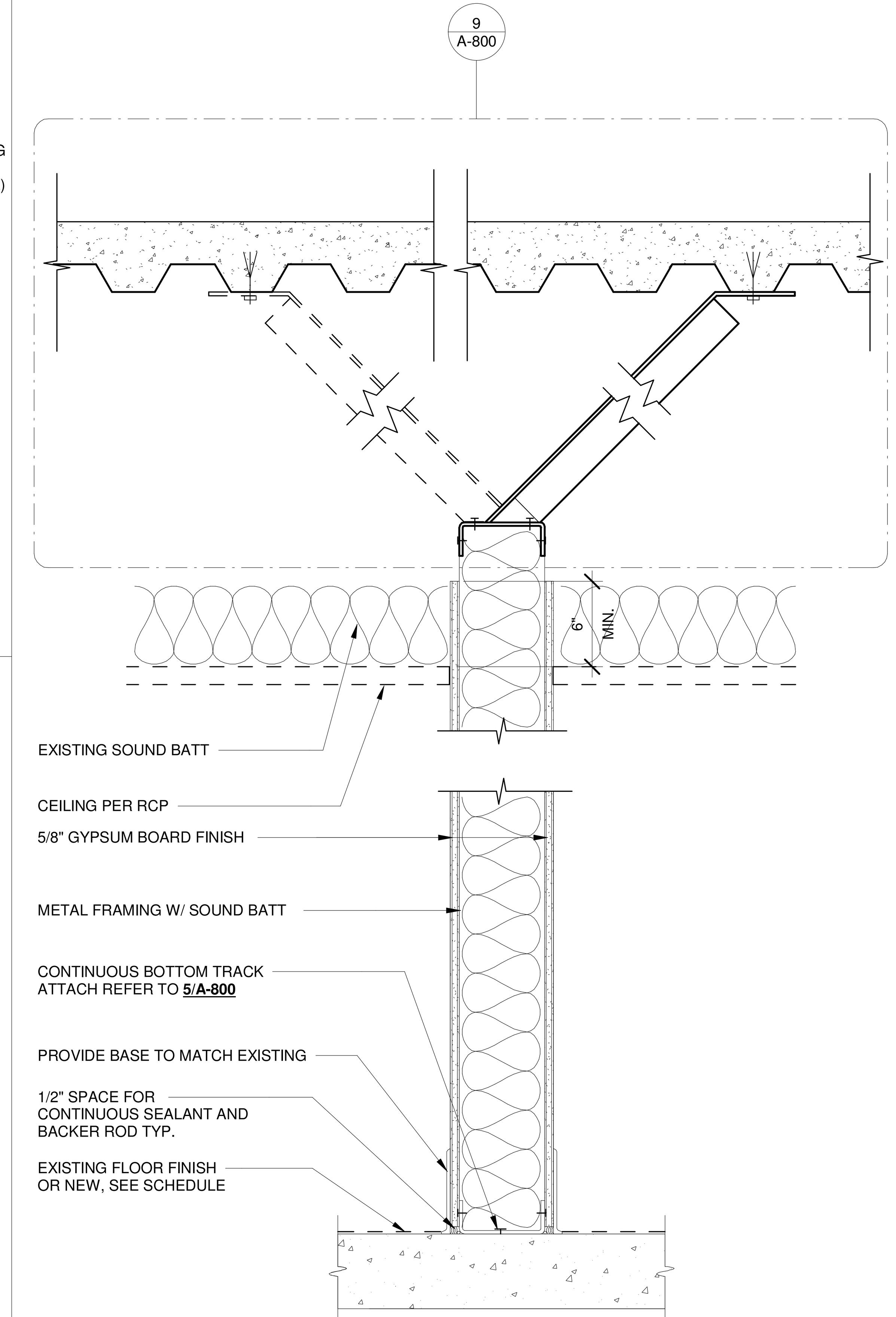
THRESHOLD AT EXT. STOREFRONT 7

3" = 1'-0"



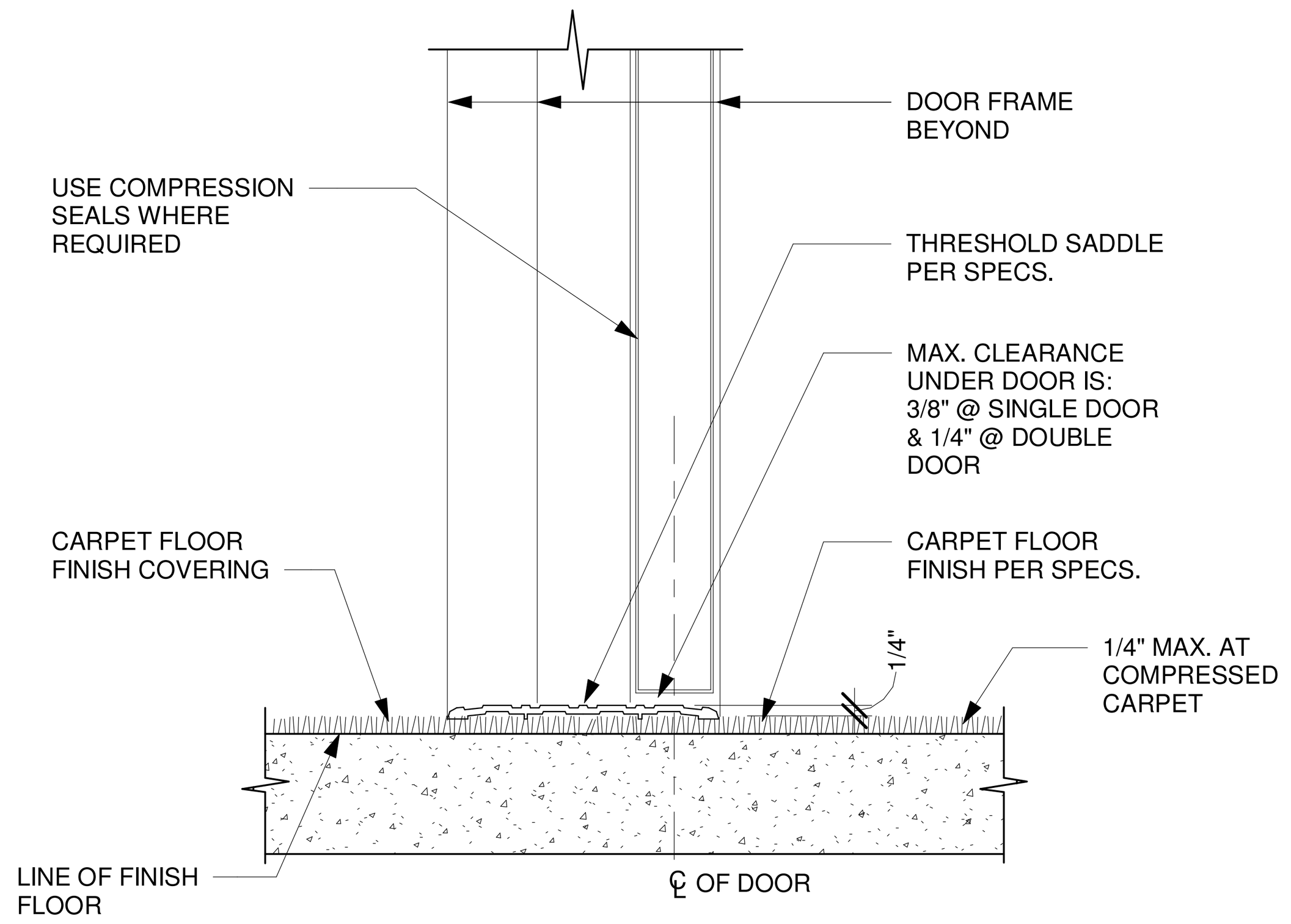
EXISTING GRAB BAR ELEVATION 4

1/2" = 1'-0"



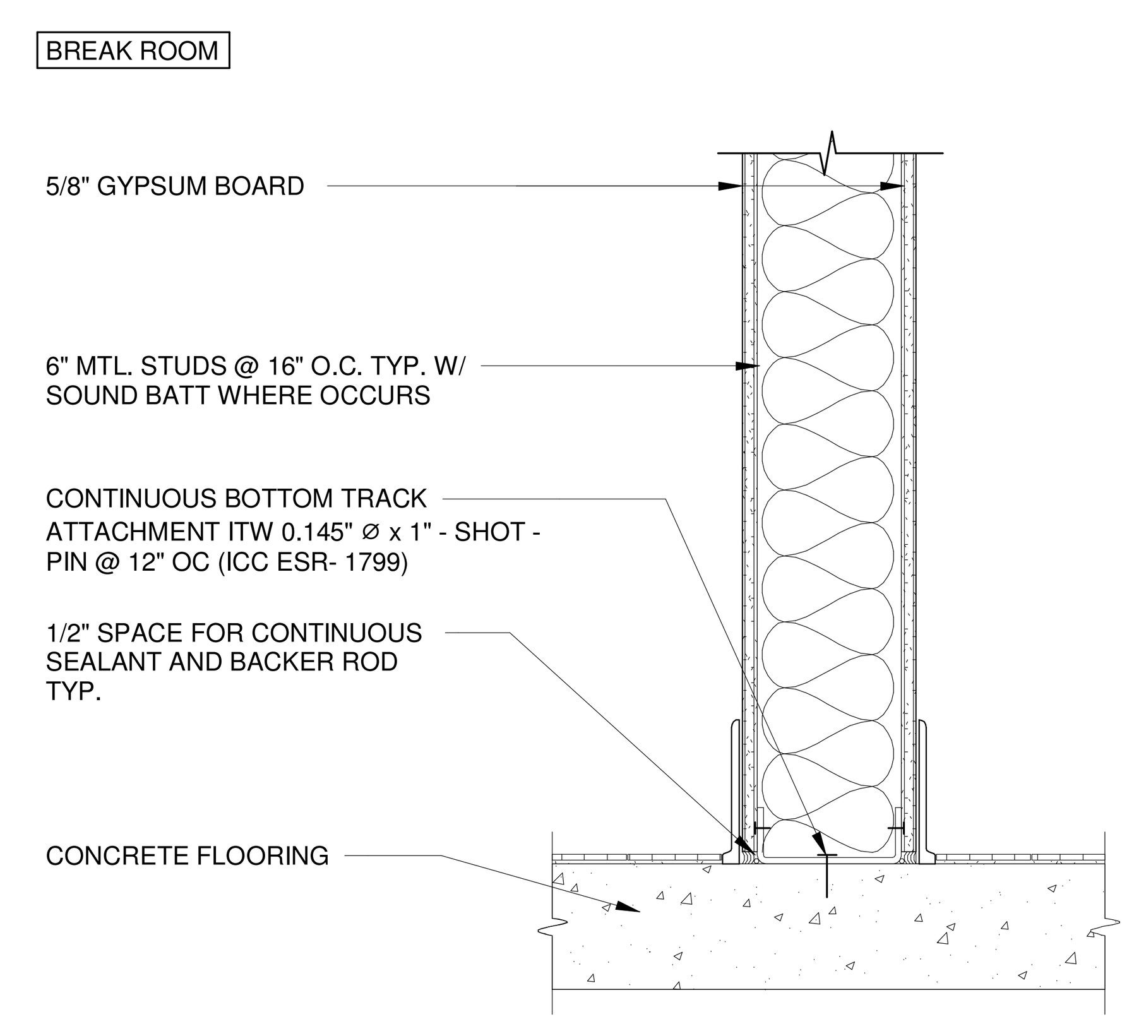
TYP. INT. PARTITION WALL PARTIAL HEIGHT 1

1 1/2" = 1'-0"



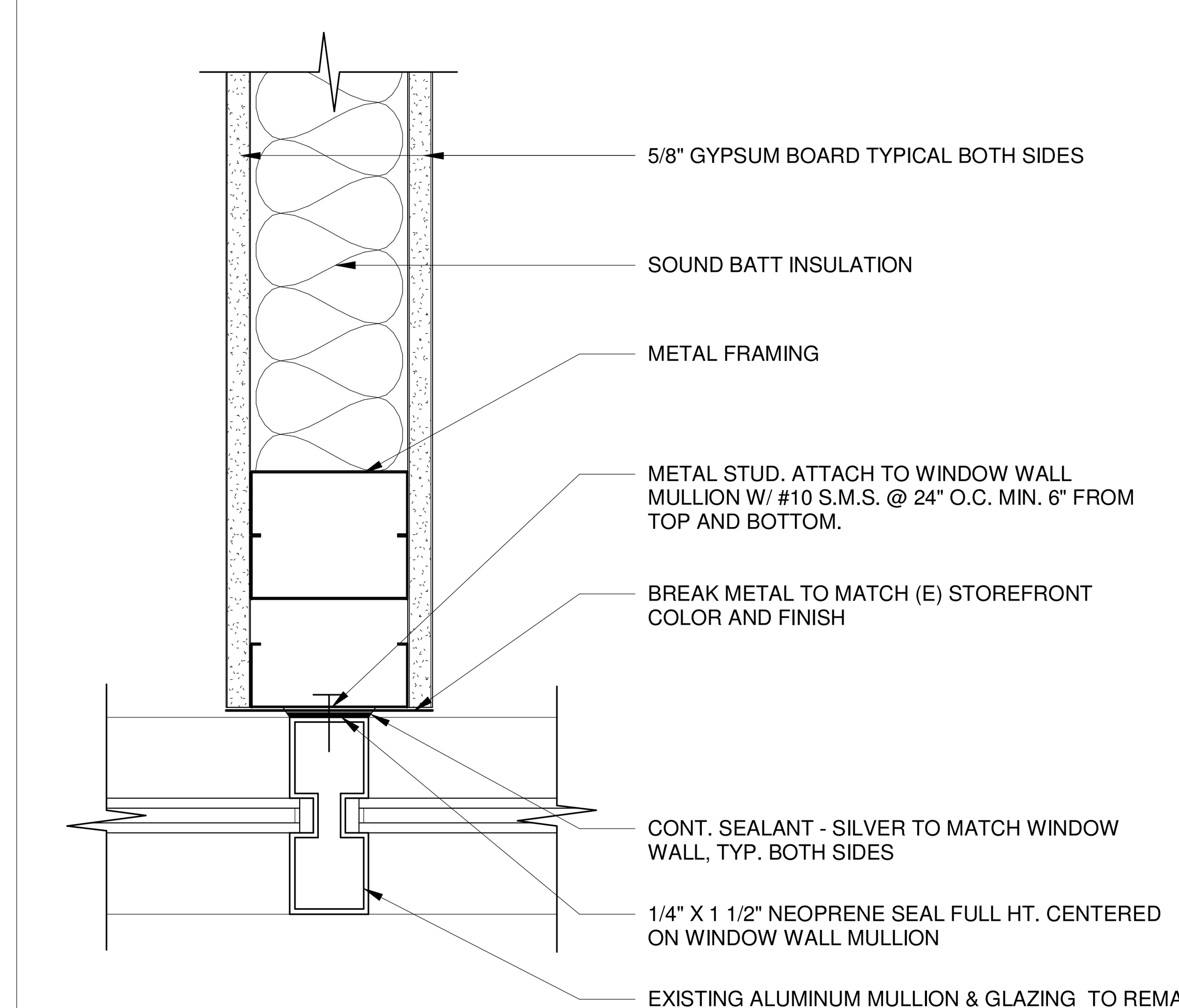
INT. DOOR THRESHOLD - CARPET TO CARPET 8

3" = 1'-0"



PARITION WALL BASE CONNECTION DETAIL 5

1 1/2" = 1'-0"



INT. PARTITION WALL TO STOREFRONT MULLION 2

3" = 1'-0"

DSA | DATE | DATE | DATE | DATE | DATE

DISTRICT ARCHITECT | ASSISTANT DISTRICT ARCHITECT | OTHER | OTHER | OTHER | OTHER

REVIEWED BY

CONSULTANT

LICENSED ARCHITECT
LEWIS BAKER
C-18627
06/30/21
STATE OF CALIFORNIA

ARCHITECT/CONSULTANT

PALO VERDE COLLEGE
Where Knowledge Takes Root and Opportunity Grows

Palo Verde Community College District
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Blythe, CA 92225

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PROJECT NO. 20016 A.P.
20016 Palo Verde College
DATE 03/22/2021
DRAWN AH
CHECKED MS
REVISIONS
SHEET NO. -
A-800
12 OF 38 SHEETS

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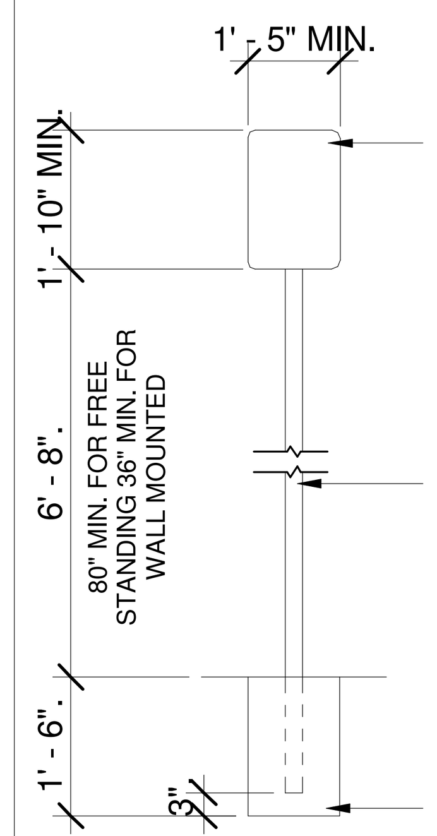
THIS DETAIL IS TO SHOW MINIMUM DIMENSIONS AND REQUIRED TEXT SEE PLAN FOR ACTUAL LOCATIONS



THIS SIGN SHALL READ:

"UNAUTHORIZED" VEHICLES PARKED IN DESIGNATED ACCESSIBLE SPACES NOT DISPLAYING DISTINGUISHING PLACARDS OR SPECIAL LICENSE PLATES ISSUED FOR PERSONS WITH DISABILITIES WILL BE TOWED AWAY AT THE OWNER'S EXPENSE. TOWED VEHICLES MAY BE RECLAIMED AT ________ OR BY TELEPHONING ____________

(760) 922-6111

CITY OF BLYTHE POLICE OFFICE

2 1/2" SQUARE STEEL TUBE

RECLAMATION SITE AND TELEPHONE NUMBER TO BE DETERMINED BY OWNER

SIGN TO BE POSTED IN A CONSPICUOUS PLACE AT EACH ENTRANCE TO THE OFF STREET PARKING FACILITY

SIGN SHALL COMPLY WITH CALIFORNIA ADMINISTRATIVE CODE TITLE 24 PART 2 SECTION 7102 1" MIN LETTERS

1'-6" CONCRETE FOOTING

* NOTE: CONTRACTOR TO OBTAIN AND INCLUDE ALL SIGN INFORMATION ON THE SIGN PRIOR TO FABRICATION AND INSTALLATION AS A PERMANENT PART OF THE SIGN

EXISTING ACCESSIBLE SITE SIGN (7)

3" = 1'-0"

SIGN SHALL LIST WHERE PORTABLE ALS CAN BE FOUND WHEN NEEDED

SIGNS SHALL BE SIZED TO ACCOMMODATE THE REQUIRED INFORMATION AND TEXT SIZES INDICATED.

INTERNATIONAL SYMBOL OF ACCESS FOR HEARING LOSS

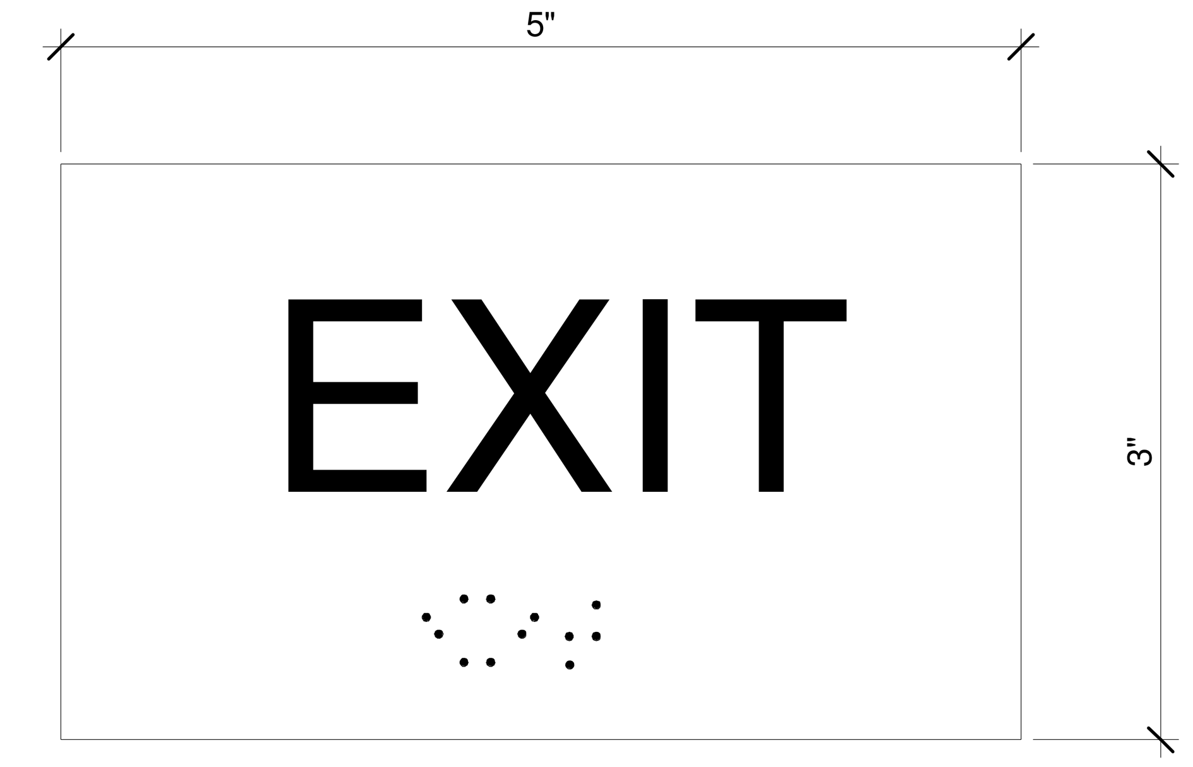
LETTERING RAISED CHARACTERS 5/8" HIGH SAN SERIF UPPERCASE

1. LETTERS SHALL BE RAISED 1/32", SANS SERIF UPPERCASE CHARACTERS. RAISED CHARACTERS TO BE BETWEEN 5/8" AND 2" HIGH.
2. CHARACTERS AND BACKGROUND OF SIGNS SHALL BE EGGSHELL, MATTE OR OTHER NON-GLARE FINISH
3. CHARACTERS SHALL CONTRAST WITH THEIR BACKGROUND (LIGHT CHARACTERS ON DARK BACKGROUND OR DARK CHARACTERS ON LIGHT BACKGROUND)
4. SIGNS SHALL BE INSTALLED ON THE WALL ADJACENT TO THE LATCH SIDE OF THE DOOR (AT DOUBLE LEAF DOORS AND WHEN THERE IS NO WALL SPACE AT THE LATCH SIDE, SIGNS SHALL BE PLACED ON THE NEAREST ADJACENT WALL, PREFERABLY ON THE RIGHT)
5. MOUNTING HEIGHT IS 60" MAX. FROM THE FINISH FLOOR TO BASELINE OF THE HIGHEST OF THE RAISED ALPHA CHARACTERS.
6. MOUNTING LOCATION MUST PROVIDE A CLEAR FLOOR SPACE LEADING UP TO THE SIGN OF 18 INCHES WIDE BY 18 INCHES LONG CENTERED ON THE SIGN. THE SIGN MUST BE CENTERED A MINIMUM OF 9 INCHES AWAY FROM THE LATCH SIDE OF THE DOOR. ENCOUNTERING PROTRUDING OBJECTS OR STANDING WITHIN THE SWING OF A DOOR.

ASSISTIVE-LISTENING SIGNAGE (4)

3" = 1'-0"

NOTE: VERIFY HEIGHT IN FIELD WILL WORK WITHOUT INTERFERING WITH (E) GLAZING



1. LETTERS SHALL BE RAISED 1/32", SANS SERIF UPPERCASE CHARACTERS AND ARE ACCOMPANIED BY GRADE 2 BRAILLE; REFER TO DETAIL 5/- FOR ADDITIONAL BRAILLE NOTES
2. CHARACTERS AND BACKGROUND OF SIGNS SHALL BE EGGSHELL, MATTE OR OTHER NON-GLARE FINISH
3. CHARACTERS SHALL CONTRAST WITH THEIR BACKGROUND (LIGH CHARACTERS ON DARK BACKGROUND OR DARK CHARACTERS ON LIGHT BACKGROUND)
4. SIGNS SHALL BE INSTALLED ON THE WALL ADJACENT TO THE LATCH SIDE OF THE DOOR (AT DOUBLE LEAF DOORS AND WHEN THERE IS NO WALL SPACE AT THE LATCH SIDE, SIGNS SHALL BE PLACED ON THE NEAREST ADJACENT WALL, PREFERABLY ON THE RIGHT)
5. MOUNTING HEIGHT IS 60" FROM THE FINISH FLOOR TO THE CENTERLINE OF THE SIGN.
6. MOUNTING LOCATION ALLOWS A PERSON TO APPROACH WITHIN 3" OF THE SIGNAGE WITHOUT ENCOUNTERING PROTRUDING OBJECTS OR STANDING WITHIN THE SWING OF A DOOR.

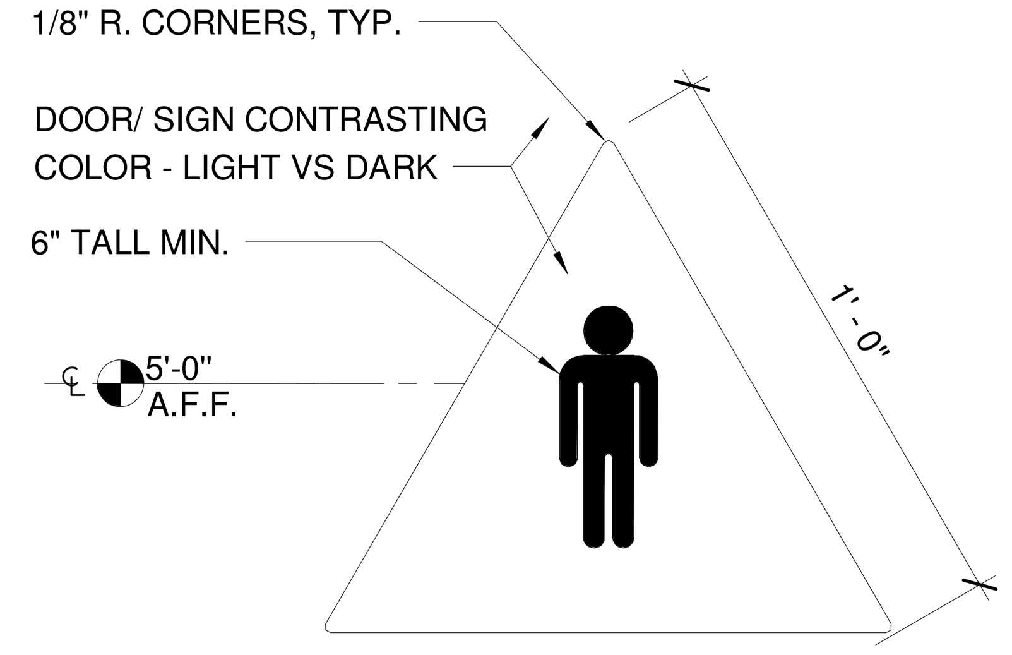
Exit Sign (1)

12" = 1'-0"

1/8" R. CORNERS, TYP.

DOOR/ SIGN CONTRASTING COLOR - LIGHT VS DARK

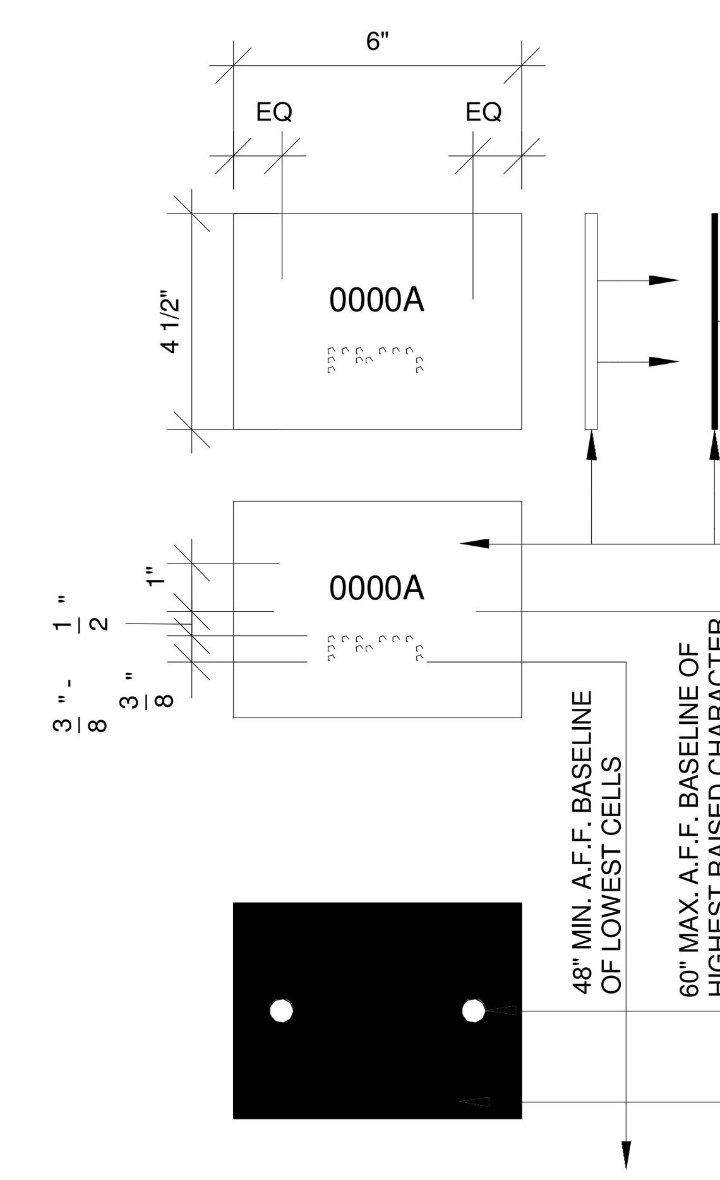
6" TALL MIN.



EXISTING MEN'S SIGNAGE DETAIL (5)

3" = 1'-0"

NEW TACTILE ROOM ID TO MATCH EXISTING TACTILE ROOM ID, AND PER BRAILE NOTES ON 3/A-801



EXTERIOR/INTERIOR SIGN 6" X 4 1/2"X 1/4" THICK SIGN PANEL W/ RAISED TYPED COPY & CALIFORNIA GRADE 2 BRAILLE

COPY AND 3 POINT RULE BORDER TO CONTRAST (AT LEAST 70% CONTRAST) WITH NEUTRAL BACKGROUND.
TYPE STYLE TO BE SANS SERIF, I.E. HELVETICA NEU REGULAR.
3/8" SPACE BETWEEN COPY AND BRAILLE.

COUNTERSUNK WALL FASTENER

1/8" THICK FACE PLATE (ALUMINUM/MAG) TO ADHERE ONTO BACK PLATE USING VHB (VERY HIGH BOND) MEMBRANE TAPE FROM 3M AND SILICONE ADHESIVE (RTV 108)

* THE SIGN MUST BE CENTERED A MINIMUM OF 9" INCHES AWAY FROM THE LATCH SIDE OF THE DOOR

COUNTERSUNK WALL FASTENERS 1/2" FROM BACK PLATE EDGE

1/8" THICK BACK PLATE (ALUMINUM/MAG)

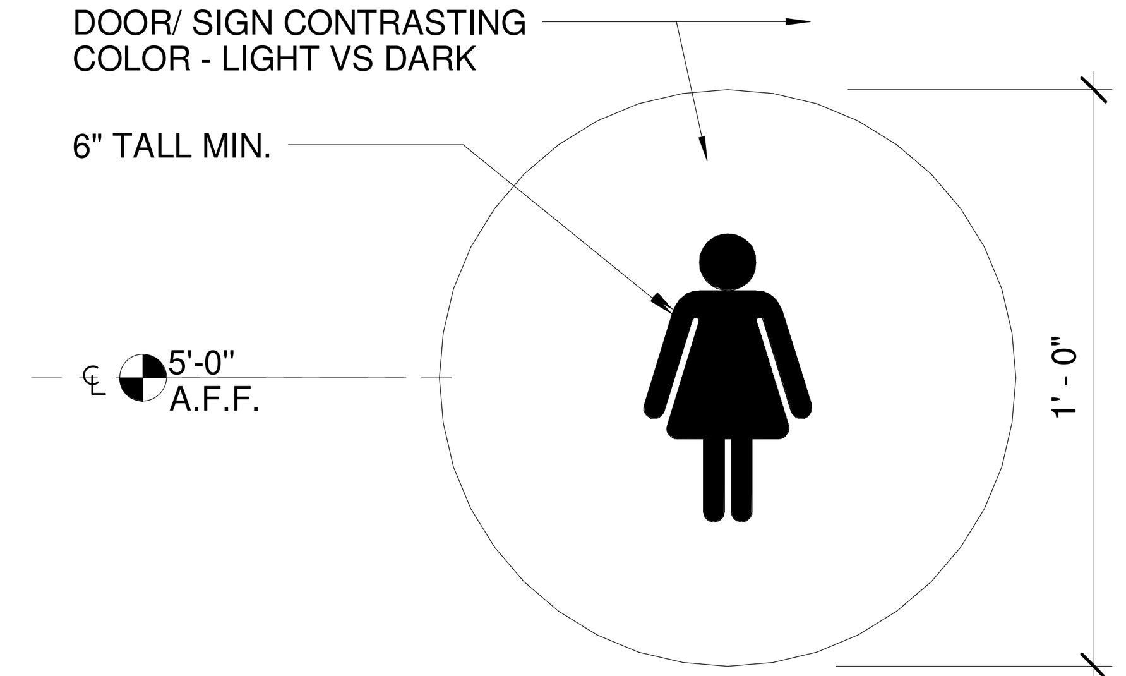
NOTE: VERIFY HEIGHT IN FIELD WILL WORK WITHOUT INTERFERRING WITH (E) GLAZING

NEW TACTILE ROOM ID (2)

3" = 1'-0"

DOOR/ SIGN CONTRASTING COLOR - LIGHT VS DARK

6" TALL MIN.



GENERAL NOTES:
ALL SYMBOL EDGES TO BE EASED 1/16" OR CHAMFERED 1/8"

EXISTING WOMEN'S SIGNAGE DETAIL (6)

3" = 1'-0"

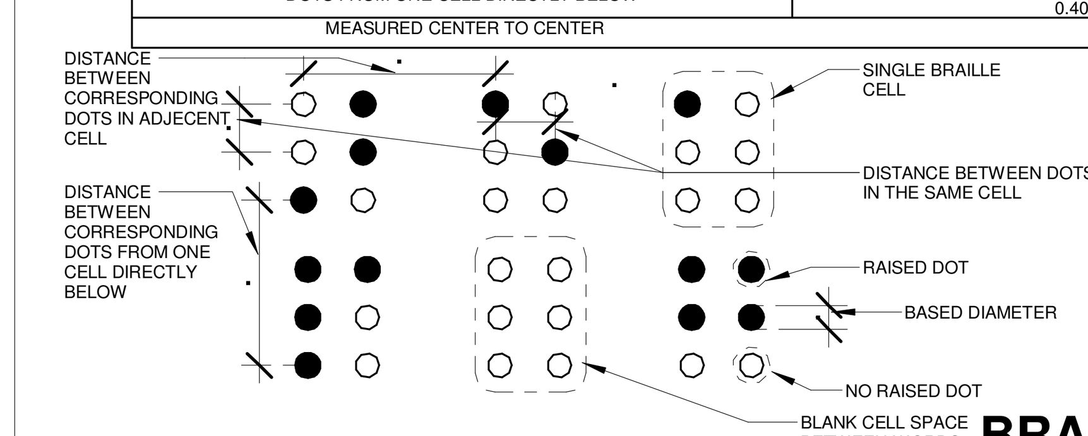
1. BRAILLE DOTS ARE 1/10" ON CENTER IN EACH CELL WITH 2/10" SPACE BETWEEN CELLS, MEASURED FROM THE SECOND COLUMN OF DOTS IN THE FIRST CELL TO THE FIRST COLUMN OF DOTS IN THE SECOND CELL.
2. BRAILLE DOTS ARE RAISED A MIN. OF 1/40" ABOVE BACKGROUND.
3. MOUNTING HEIGHT IS A MINIMUM OF 48 INCHES TO THE BASELINE OF THE BRAILLE CELLS.

1(B-703.3 BRAILLE, BRALLE SHALL BE CONTRACTED (GRADE 2) AND SHALL COMPLY WITH SECTION, 11B-703.3 AND 11B-703.4

11B-703.3.1 DIMENSION AND CAPITALIZATION BARILLE DOTS SHALL HAVE A DOMED OR ROUNDED SHAPE AND COMPLY WITH TABLE 11 B.703.3.1 THE INDICATION OF AN UPPERCASE LETTER OR LETTERS SHALL ONLY BE USED BEFORE THE FIRST WORD OR SENTENCES, PROPER NOUNS AND NAME, INDIVIDUAL LETTERS OF THE ALPHABET, INITIALS, AND ARYNOMS.

11B-703.3.2 POSITION. BRAILLE SHALL BE POSITIONED BELOW THE CORRESPONDING TEXT IN HORIZANTAL FORMAT, FLUSH LEFT OR CENTERED. IF TEST IS MULTI-LINED, BARILLE SHALL BE PLACED BELOW THE ENTIRE TEXT. BARILLE SHALL BE SEPRETED 3/8" INCH (9.5 MM) MINIMUM 1/2" INCH (12.7MM) MAXIMUM FROM ANY OTHER TACTILE CHARACTERS AND 3/8" INCH (9.5MM) MINIMUM FROM RAISED BORDERS AND DECORATIVE ELEMENTS.

MEASUREMENT RANGE	MINIMUM IN INCHES MAXIMUM IN INCHES
DOT BASE DIMETER	0.059 (1.5MM) TO 0.063 (1.6 MM)
DISTANCE BETWEEN TWO DOTS IN SAME CELL	0.100 (2.5 MM)
DISTANDE BETWEEN CORRESPONDING DOTS IN ADJECENT CELL	0.300 (7.6 MM)
DOT HEIGHT	0.025 (0.6 MM) TO 0.037 (0.9 MM)
DISTANCE BETWEEN CORRESPONDING DOTS FROM ONE CELL DIRECTLY BELOW	0.395 (10 MM) TO 0.400 (10.2 MM)
MEASURED CENTER TO CENTER	



BRAILLE NOTES (3)

3" = 1'-0"

DSA

DISTRICT ARCHITECT	DATE
ASSISTANT DISTRICT ARCHITECT	DATE
OTHER	DATE
OTHER	DATE
OTHER	DATE
OTHER	DATE

REVIEWED BY

CONSULTANT

ARCHITECT/CONSULTANT

LICENSED ARCHITECT MARK LEWIS BAKER C-18627 06/30/21 STATE OF CALIFORNIA

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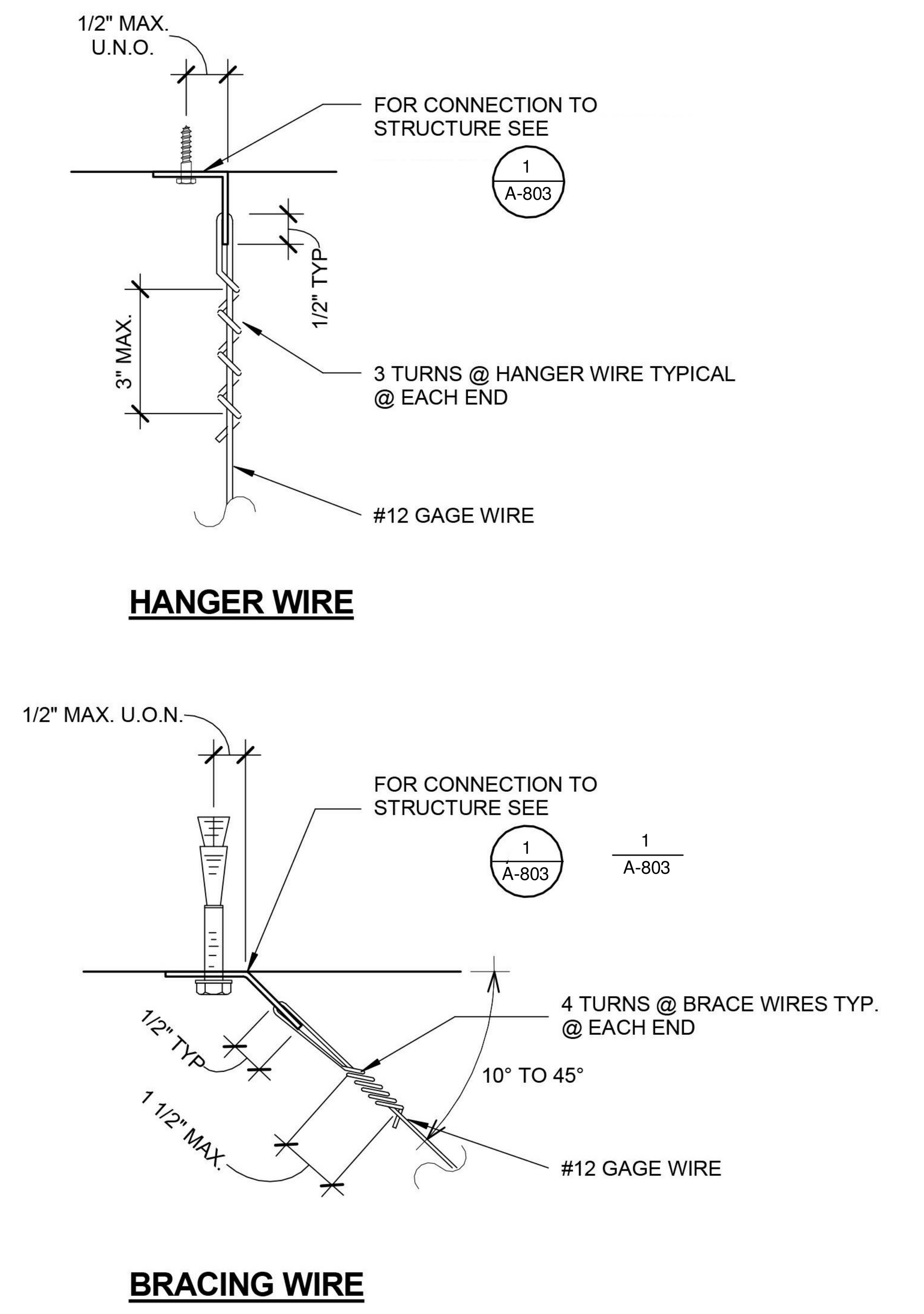
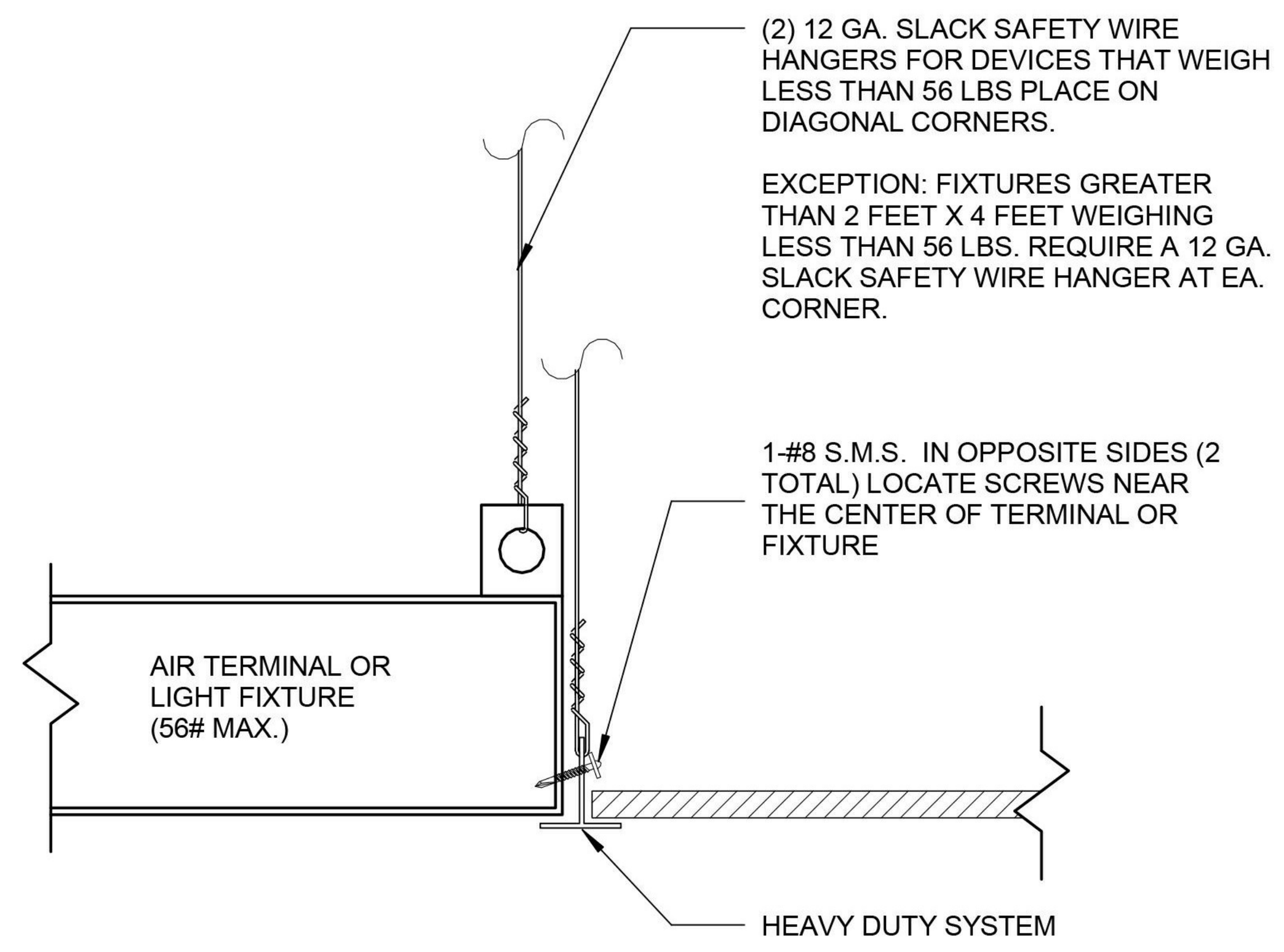


IR 25-2.13 4.10 (7)

3" = 1'-0"



IR 25-2.13 2.80 (5)

3" = 1'-0"

1. CEILING SYSTEM GENERAL NOTES:

1.01 CEILING SYSTEM COMPONENTS SHALL COMPLY WITH ASTM C635-07 AND SECTION 5.1 OF ASTM E580-10A.

1.02 THE CEILING GRID SYSTEM MUST BE RATED HEAVY DUTY AS DEFINED BY ASTM C635-08.

1.03 CEILING SYSTEMS. THE FOLLOWING CEILING SYSTEM(S) IS/ARE PART OF THE SCOPE OF THIS PROJECT:
[FOR EACH SYSTEM USED, THE RDP SHALL INDICATE IN THE CONSTRUCTION DOCUMENTS, THE INFORMATION THAT FOLLOWS]
MANUFACTURER'S NAME ____________ __.
PRODUCT EVALUATION REPORT TYPE AND NUMBER _______________.
MANUFACTURER'S MODEL NUMBER - MAIN RUNNER ____________ __ .
MANUFACTURER'S CATALOG NUMBER - CROSS RUNNER _______________ .

1.04 SEISMIC WALL CLIP: [RDP TO SPECIFY IF USED]
MANUFACTURER'S MODEL ____________ __ .

1.05 CEILING PANELS SHALL NOT SUPPORT ANY LIGHT FIXTURES, AIR TERMINALS OR DEVICES.

1.06 FOR CEILING INSTALLATIONS UTILIZING ACOUSTICAL TILE PANELS OF MINERAL OR GLASS FIBER, IT IS NOT MANDATORY TO PROVIDE ¾" CLEARANCE BETWEEN THE ACOUSTICAL TILE PANELS AND THE WALL ON THE SIDES OF THE CEILING WHICH ARE FREE TO SLIP. FOR ALL OTHER CEILING PANEL TYPES, PROVIDE ¾"
CLEARANCE BETWEEN THE CEILING PANEL AND THE WALL ON THE SIDES OF THE CEILING FREE TO SLIP.

2. MATERIALS:

2.01 CEILING WIRE SHALL BE CLASS 1 ZINC COATED (GALVANIZED) CARBON STEEL CONFORMING TO ASTM A641-09A. WIRE SHALL BE #12 GAGE (0.106" DIAMETER) WITH SOFT TEMPER AND MINIMUM TENSILE STRENGTH = 70 KSI.

2.02 GALVANIZED SHEET STEEL (INCLUDING THAT USED FOR METAL STUD AND TRACK COMPRESSION STRUTS/POST) SHALL CONFORM TO ASTM A653-11, OR OTHER EQUIVALENT SHEET STEEL LISTED IN SECTION A2.1 OF THE NORTH AMERICAN SPECIFICATION FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS 2007, INCLUDING SUPPLEMENT 2 DATED 2010 (AISI S100-07/S2-10).
MATERIAL 43 MIL (18 GAGE) AND LIGHTER SHALL HAVE MINIMUM YIELD STRENGTH OF 33 KSI.
MATERIAL 54 MIL (16 GAGE) AND HEAVIER SHALL HAVE A MINIMUM YIELD STRENGTH OF 50 KSI.

2.03 ELECTRICAL METALLIC TUBE (EMT) SHALL BE ANSI C80.3/UL 797 CARBON STEEL WITH G90 GALVANIZING. EMT SHALL HAVE MINIMUM YIELD STRENGTH (FY) OF 30 KSI AND MINIMUM ULTIMATE STRENGTH (FU) OF 48 KSI.

3. ATTACHMENT OF HANGER AND BRACING WIRES:

3.01 SEPARATE ALL CEILING HANGER AND BRACING WIRES AT LEAST SIX (6) INCHES FROM ALL UNBRACED DUCTS, PIPES, CONDUIT, ETC.

3.02 HANGER AND BRACING WIRES SHALL NOT ATTACH TO OR BEND AROUND OBSTRUCTIONS INCLUDING BUT NOT LIMITED TO: PIPING, DUCTWORK, CONDUIT AND EQUIPMENT.

3.03 HANGER WIRES THAT ARE MORE THAN ONE (HORIZONTAL) IN SIX (VERTICAL) OUT OF PLUMB SHALL HAVE COUNTER-SLOPING WIRES.

3.04 SLACK SAFETY WIRES SHALL BE CONSIDERED HANGER WIRES FOR INSTALLATION AND TESTING REQUIREMENTS.

3.05 HANGER AND BRACING WIRE ANCHORAGE TO THE STRUCTURE SHALL BE INSTALLED IN SUCH A MANNER THAT THE DIRECTION OF THE ANCHORAGE ALIGNS CLOSELY WITH THE DIRECTION OF THE WIRE. (E.G. BRACING WIRE CEILING CLIPS MUST BE BENT AS SHOWN IN THE DETAILS AND ROTATED AS REQUIRED TO ALIGN CLOSELY WITH THE DIRECTION OF THE WIRE, SCREW EYES IN WOOD MUST BE INSTALLED SO THEY ALIGN CLOSELY WITH THE DIRECTION OF THE WIRE, ETC.)

4. FASTENERS AND WELDING:

4.01 SHEET METAL SCREWS SHALL COMPLY WITH ASTM C1513-10, ASME B18.6.4-89 (R2005). PENETRATION OF SCREWS THROUGH JOINED MATERIAL SHALL NOT BE LESS THAN THREE EXPOSED THREADS.

4.02 EXPANSION ANCHORS SHALL BE: [RDP TO INDICATE MANUFACTURER, PRODUCT, EVALUATION REPORT NUMBER AND LOAD FOR EACH SIZE SPECIFIED PER CBC 1913A.7.2.]

4.03 POWER-ACTUATED FASTENERS SHALL BE: [RDP TO INDICATE MANUFACTURER, PRODUCT, EVALUATION REPORT NUMBER]

4.04 IF NOT OTHERWISE SPECIFIED IN THE EVALUATION REPORT, POWER-ACTUATED FASTENERS INSTALLED IN STEEL SHALL BE INSTALLED SO THE ENTIRE POINTED END OF THE FASTENER IS DRIVEN THROUGH THE STEEL MEMBER.

4.05 POWER-ACTUATED FASTENERS IN CONCRETE ARE NOT PERMITTED FOR BRACING WIRES.

4.06 CONCRETE REINFORCEMENT AND PRESTRESSING TENDONS SHALL BE LOCATED BY NON-DESTRUCTIVE MEANS PRIOR TO INSTALLING POST - INSTALLED ANCHOR.

4.07 WELDING SHALL BE IN ACCORDANCE WITH AWS D1.3 USING E60XX SERIES ELECTRODES.

5. TESTING: ALL FIELD TESTING MUST BE PERFORMED IN THE PRESENCE OF THE PROJECT INSPECTOR.

5.01 POST-INSTALLED ANCHORS IN CONCRETE USED TO SUPPORT HANGER WIRES SHALL BE TESTED AT A FREQUENCY OF 10 PERCENT. POWER ACTUATED FASTENERS IN CONCRETE SHALL BE FIELD TESTED FOR 200 LBS. IN TENSION. ALL OTHER POST-INSTALLED ANCHORS IN CONCRETE SHALL BE TESTED IN ACCORDANCE WITH CBC SECTION 1913A.7.

5.02 POST-INSTALLED ANCHORS IN CONCRETE USED TO ATTACH BRACING WIRES SHALL BE TESTED AT A FREQUENCY OF 50 PERCENT IN ACCORDANCE WITH CBC SECTION 1913A.7.

6. LIGHT FIXTURES:

6.01 ALL LIGHT FIXTURES SHALL BE POSITIVELY ATTACHED TO THE CEILING SUSPENSION SYSTEMS BY
MECHANICAL MEANS TO RESIST A HORIZONTAL FORCE EQUAL TO THE WEIGHT OF THE FIXTURE. A MINIMUM OF TWO SCREWS OR APPROVED FASTENERS ARE REQUIRED AT EACH LIGHT FIXTURE, PER ASTM E580, SECTION 5.3.1.

6.02 SURFACE-MOUNTED LIGHT FIXTURES SHALL BE ATTACHED TO THE MAIN RUNNER WITH AT LEAST TWO POSITIVE CLAMPING DEVICES. THE CLAMPING DEVICE SHALL COMPLETELY SURROUND THE SUPPORTING CEILING RUNNER AND BE MADE OF STEEL WITH A MINIMUM THICKNESS OF #14 GAGE. ROTATIONAL SPRING CATCHES DO NOT COMPLY. A #12 GAGE SLACK SAFETY WIRE SHALL BE CONNECTED FROM EACH CLAMPING DEVICE TO THE STRUCTURE ABOVE. PROVIDE ADDITIONAL SUPPORTS WHEN LIGHT FIXTURES ARE EIGHT (8) FEET OR LONGER OR EXCEED 56 LB. MAXIMUM SPACING BETWEEN SUPPORTS SHALL NOT EXCEED EIGHT (8) FEET.

6.03 LIGHT FIXTURES WEIGHING LESS THAN OR EQUAL TO 10 LB. SHALL HAVE A MINIMUM OF ONE (1) #12 GAGE SLACK SAFETY WIRE CONNECTED FROM THE FIXTURE HOUSING TO THE STRUCTURE ABOVE.

6.04 LIGHT FIXTURES WEIGHING LESS THAN OR EQUAL TO 10 LB. SHALL HAVE A MINIMUM OF ONE (1) #12 GAGE SLACK SAFETY WIRE CONNECTED FROM THE FIXTURE HOUSING TO THE STRUCTURE ABOVE.

6.05 LIGHT FIXTURES WEIGHING GREATER THAN 10 LB. BUT LESS THAN OR EQUAL TO 56 LBS. MAY BE SUPPORTED DIRECTLY ON THE CEILING RUNNERS, BUT THEY SHALL HAVE A MINIMUM OF TWO (2) #12 GAGE SLACK SAFETY WIRES CONNECTED FROM THE FIXTURE HOUSING AT DIAGONAL CORNERS TO THE STRUCTURE ABOVE.
EXCEPTION: ALL LIGHT FIXTURES GREATER THAN TWO BY FOUR FEET WEIGHING LESS THAN 56 LBS.
SHALL HAVE A #12 GAGE SLACK SAFETY WIRE AT EACH CORNER.

6.06 ALL LIGHT FIXTURES WEIGHING GREATER THAN 56 LB. SHALL BE INDEPENDENTLY SUPPORTED BY NOT LESS THAN FOUR (4) TAUT #12 GAGE HANGER WIRES (ONE AT EACH CORNER) ATTACHED FROM THE FIXTURE HOUSING TO THE STRUCTURE ABOVE OR OTHER APPROVED HANGERS. THE FOUR (4) TAUT #12 GAGE WIRES OR OTHER APPROVED HANGERS, INCLUDING THEIR ATTACHMENT TO THE STRUCTURE ABOVE, SHALL BE CAPABLE OF SUPPORTING FOUR (4) TIMES THE WEIGHT OF THE FIXTURE.

7. SERVICES WITHIN THE CEILING:

7.01 ALL FLEXIBLE SPRINKLER HOSE FITTING MOUNTING BRACKETS, CEILING-MOUNTED AIR TERMINALS OR OTHER SERVICES SHALL BE POSITIVELY ATTACHED TO THE CEILING SUSPENSION SYSTEMS BY MECHANICAL MEANS. SCREWS OR APPROVED FASTENERS ARE REQUIRED. A MINIMUM OF TWO ATTACHMENTS ARE REQUIRED AT EACH COMPONENT.

7.02 CEILING-MOUNTED AIR TERMINALS OR OTHER SERVICES WEIGHING LESS THAN OR EQUAL TO 20 LB. SHALL HAVE ONE (1) #12 GAGE SLACK SAFETY WIRE ATTACHED FROM THE TERMINAL OR SERVICE TO THE STRUCTURE ABOVE.

7.03 FLEXIBLE SPRINKLER HOSE FITTINGS, CEILING-MOUNTED AIR TERMINALS OR OTHER SERVICES WEIGHING MORE THAN 20 LB. BUT LESS THAN OR EQUAL TO 56 LB. SHALL HAVE TWO (2) #12 GAGE SLACK SAFETY WIRES (AT DIAGONAL CORNERS) CONNECTED FROM THE TERMINAL OR SERVICE TO THE STRUCTURE ABOVE.

7.04 FLEXIBLE SPRINKLER HOSE FITTINGS, CEILING-MOUNTED AIR TERMINALS OR OTHER SERVICES WEIGHING MORE THAN 56 LB. SHALL BE SUPPORTED DIRECTLY FROM THE STRUCTURE ABOVE BY NOT LESS THAN FOUR (4) TAUT #12 GAGE HANGER WIRES ATTACHED FROM THE TERMINAL OR SERVICE TO THE STRUCTURE ABOVE OR OTHER APPROVED HANGERS.

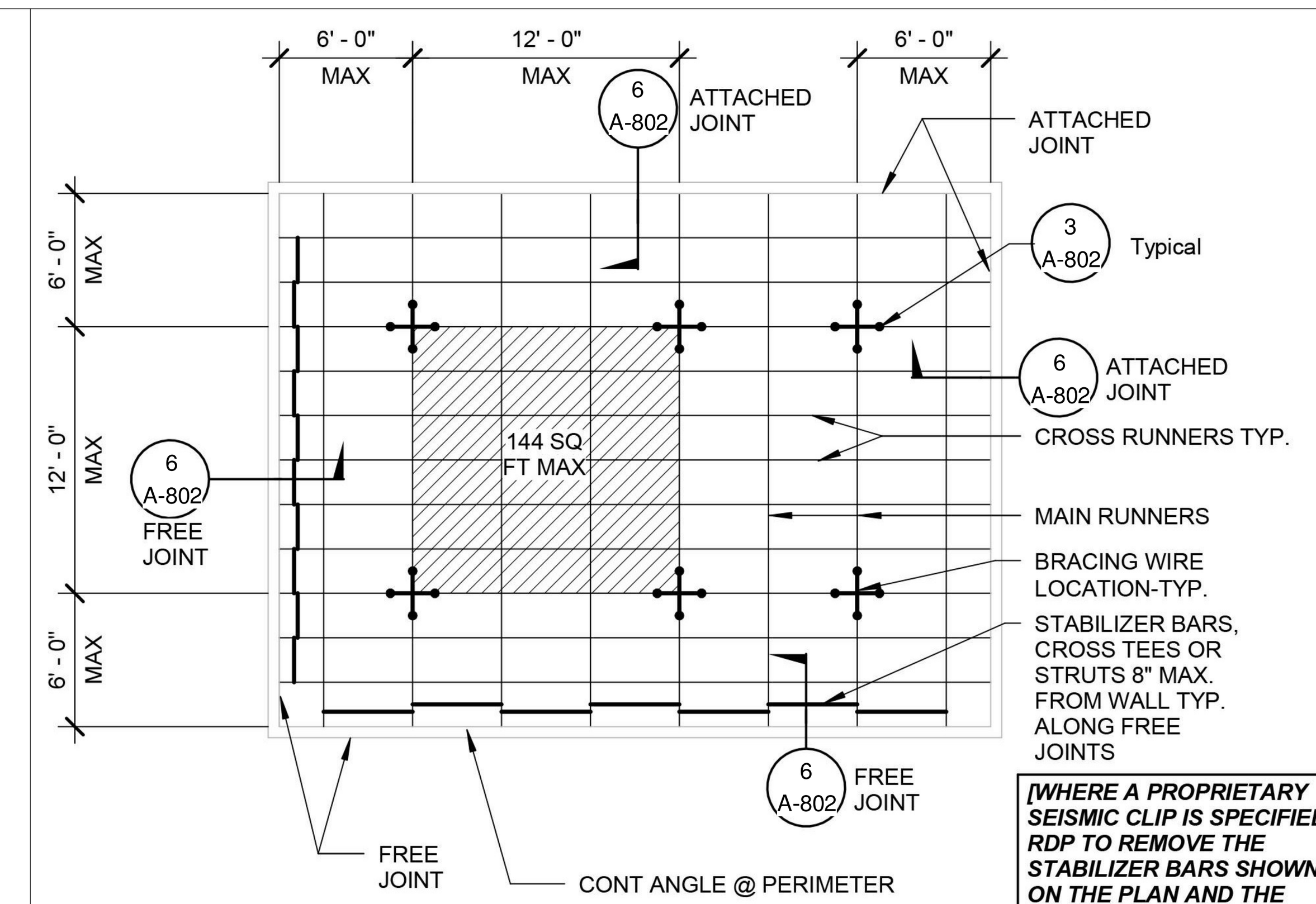
8. OTHER DEVICES WITHIN THE CEILING:

8.01 ALL LIGHTWEIGHT MISCELLANEOUS DEVICES, SUCH AS STROBE LIGHTS, OCCUPANCY SENSORS, SPEAKERS, EXIT SIGNS, ETC., SHALL BE ATTACHED TO THE CEILING GRID. IN ADDITION, DEVICES WEIGHING MORE THAN 10 LBS. SHALL HAVE A #12 GAGE SLACK SAFETY WIRE ANCHORED TO THE STRUCTURE ABOVE. DEVICES WEIGHING MORE THAN 20 LB. SHALL BE SUPPORTED INDEPENDENTLY FROM THE STRUCTURE ABOVE.

TAKEN FROM IR 25-2.13

ACCOUSTIC CEILING NOTES (1)

1" = 1'-0"



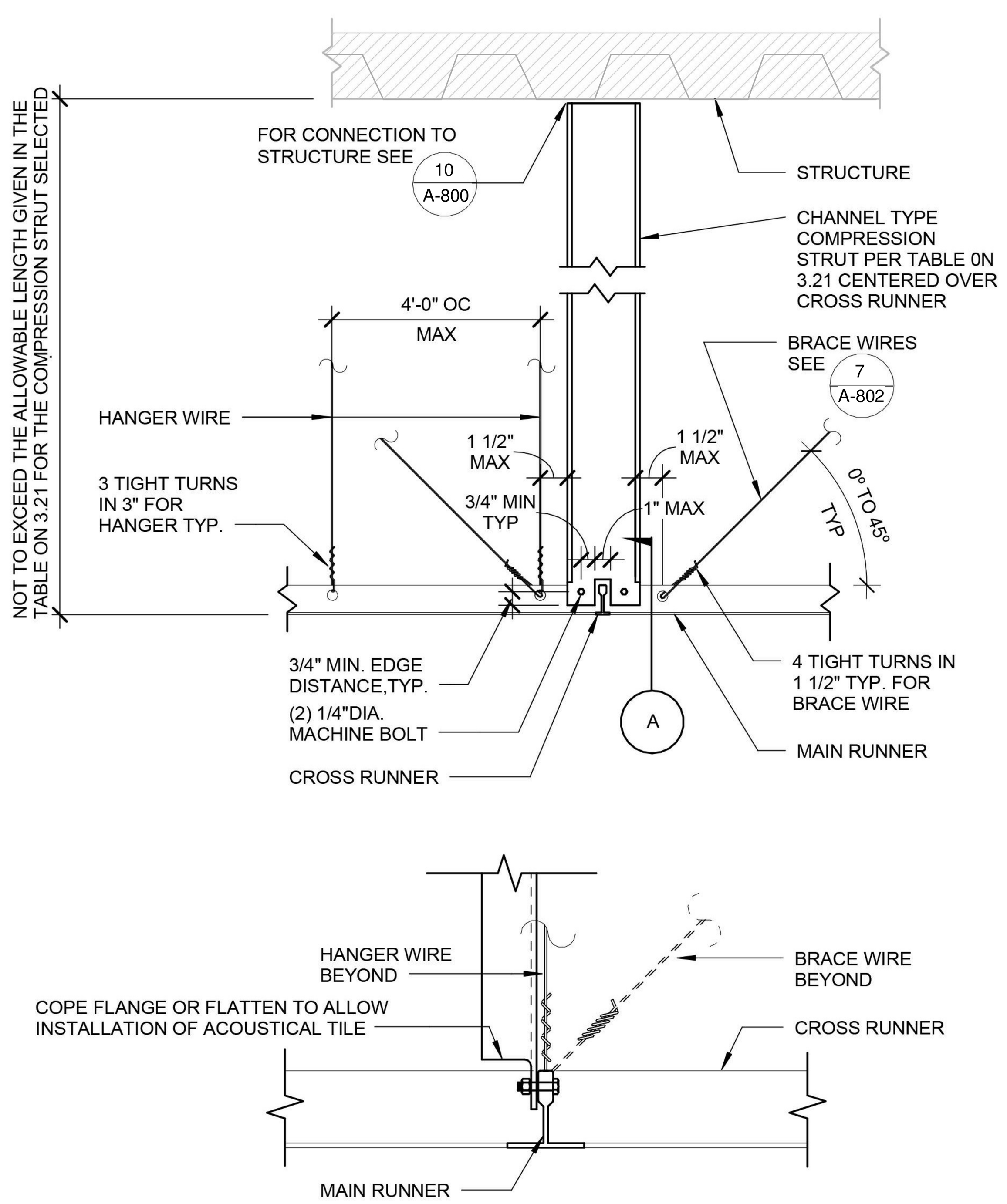
NOTE:
BRACING WIRES AND COMP. STRUT SHALL OCCUR AT EVERY 144 SQ. FT. MAX. IN ROOMS OVER 144 SQ. FT.

[WHERE A PROPRIETARY SEISMIC CLIP IS SPECIFIED, RDP TO REMOVE THE STABILIZER BARS SHOWN ON THE PLAN AND THE ABOVE STABILIZER BAR NOTE]

IR 25-2.13 2.12 (2)

3" = 1'-0"

CHANNEL COMPRESSION STRUT	MAXIMUM LENGTH
250S125-33	5'-0"
250S137-33	6'-10"
362S137-33	8'-0"
250137-43	8'10"
400S137-43	10'-10"

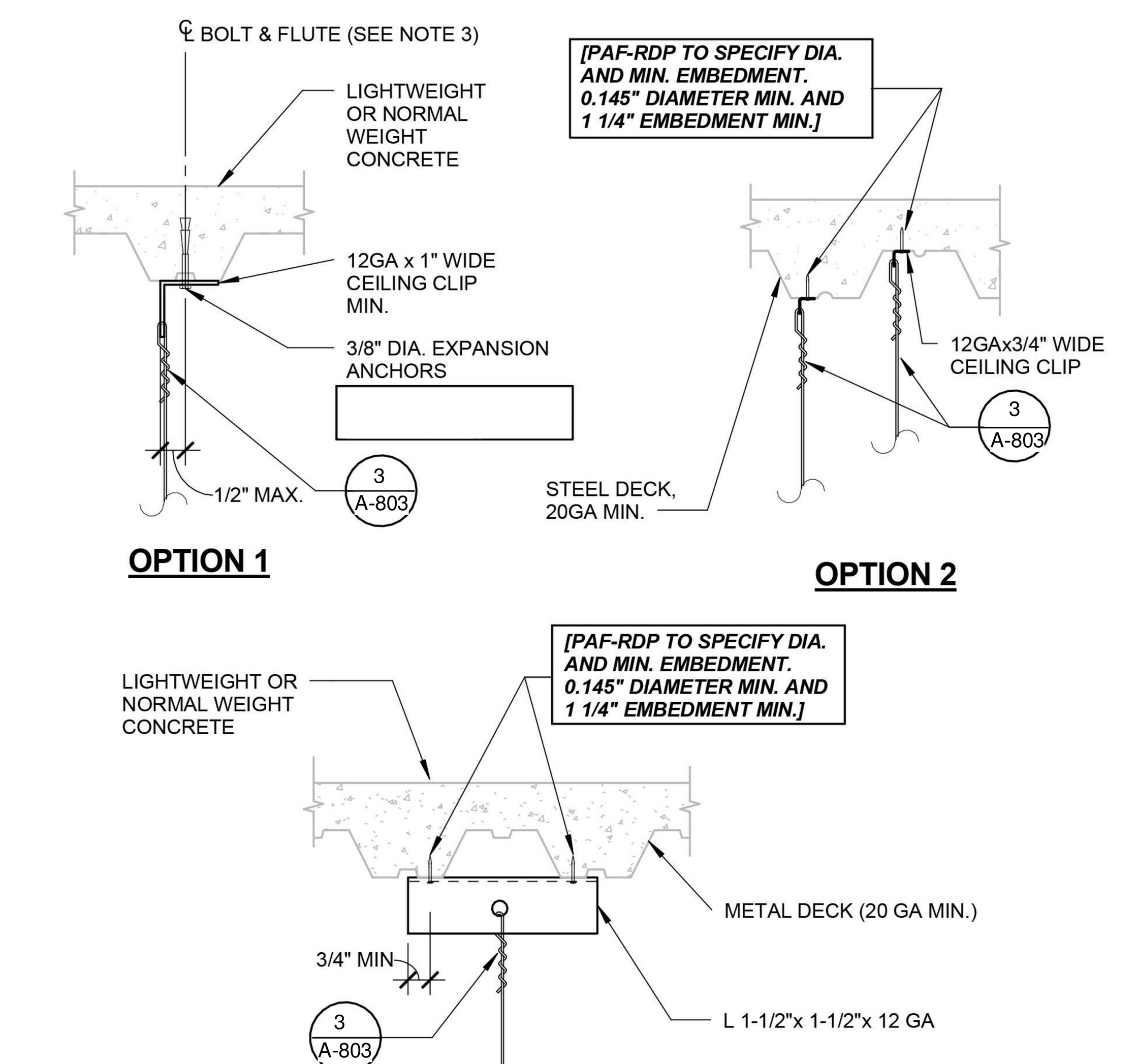


A SECTION

3" = 1'-0"

IR 25-2.13 3.10 (6)

3" = 1'-0"

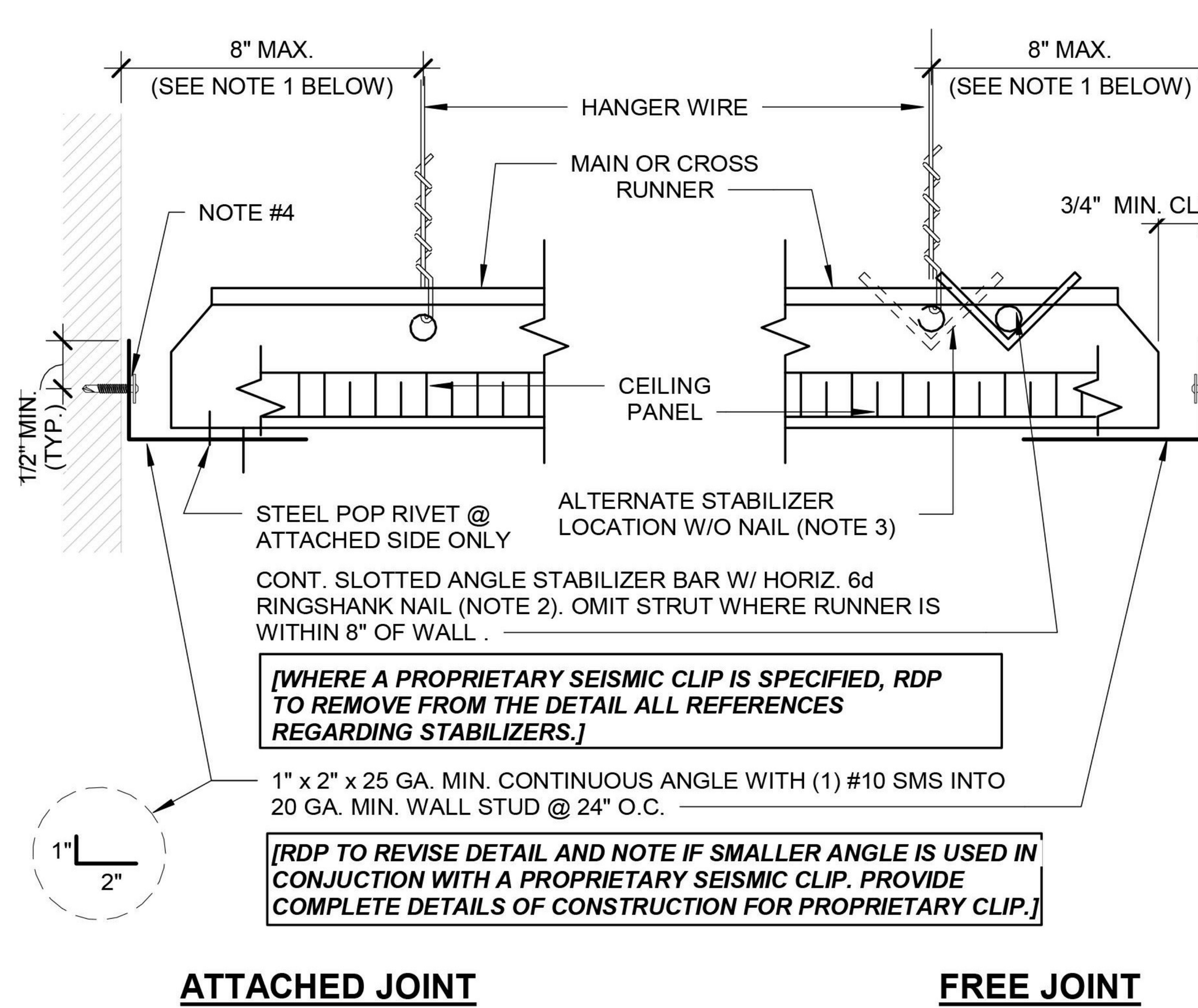


NOTES:

1. REFER TO 1/A-802 FOR ADDITIONAL DETAILS.
2. POST INSTALLED ANCHORS TO BE PLACED NO MORE THAN 1" OFFSET FROM CENTERLINE OF DECK LOW FLUTE.
3. TEST POST INSTALLED ANCHORS IN ACCORDANCE WITH CEILING NOTE 5.01.

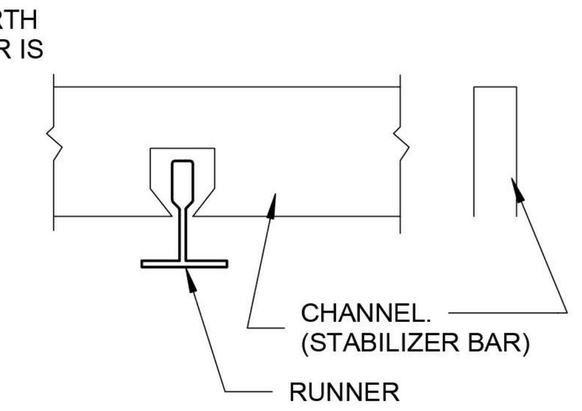
IR 25-2.13 4.21 (8)

3" = 1'-0"



NOTES:

1. PROVIDE #12 GAGE HANGER WIRES AT THE ENDS OF ALL MAIN AND CROSS RUNNERS WITHIN EIGHT (8) INCHES OF THE SUPPORT OR WITHIN ONE-FOURTH (1/4) OF THE LENGTH OF THE END TEE, WHICHEVER IS LESS, FOR THE PERIMETER OF THE CEILING AREA. PERIMETER WIRES ARE NOT REQUIRED WHEN THE LENGTH OF THE END TEE IS EIGHT (8) INCHES OR LESS.
2. NAILS AT ENDS OF HORIZONTAL STABILIZERS ARE TO BE PLACED WITH NAIL HEAD TOWARD CENTER LINE OF SPAN OF STRUT.
3. STABILIZER BAR MAY BE SLOTTED APPROVED ANGLES OR CHANNELS WITH "DIAMOND POINTS" OF SPRING STEEL WHICH SNAP TIGHT TO PREVENT MOVEMENT OF STRUT.
4. (1) #10 SMS TO 20 GA. MIN. WALL STUD @ 24" O.C.

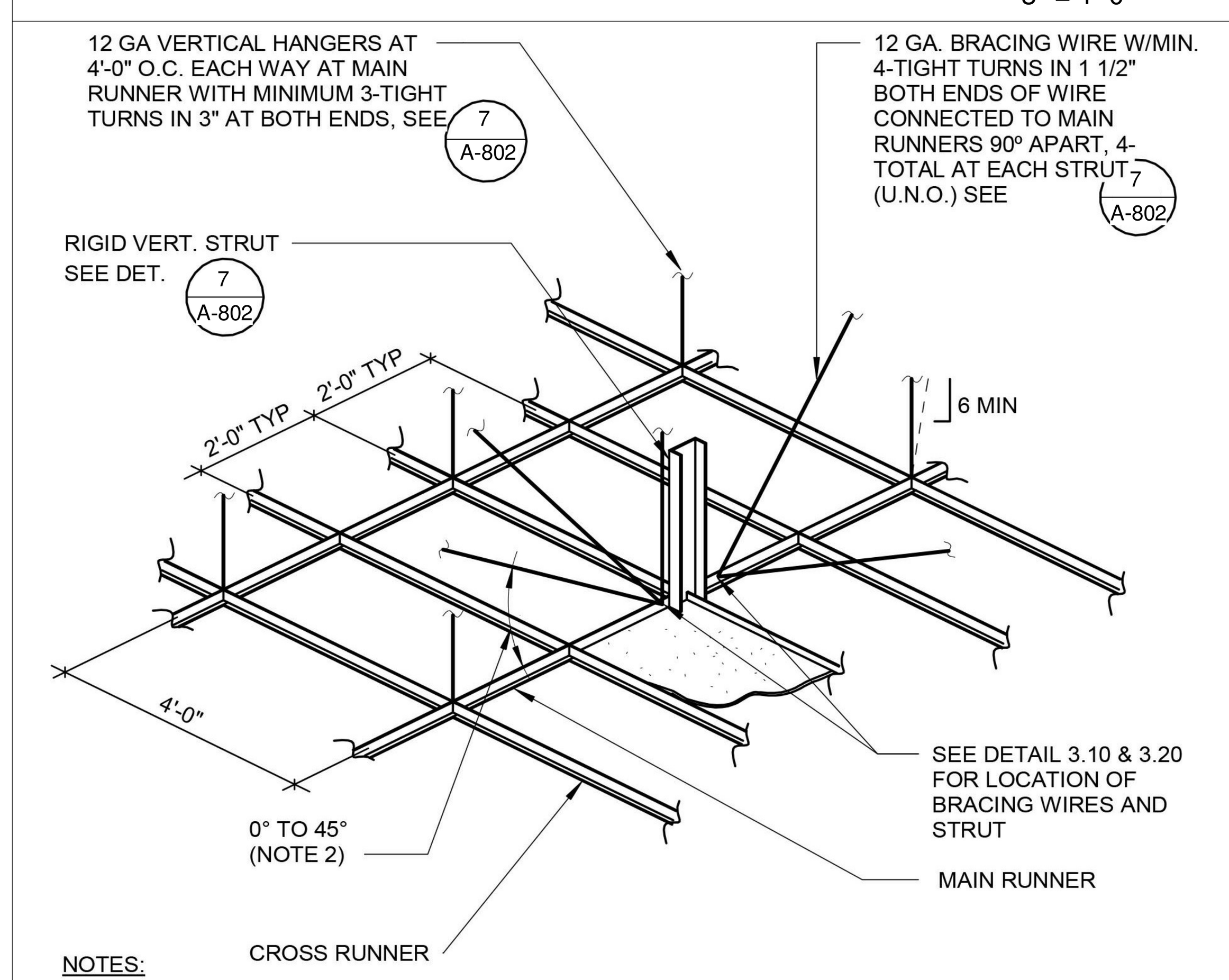


APPROVED STABILIZER

(SEE NOTE 3)

IR 25-2.13 2.60 (4)

3" = 1'-0"



NOTES:

1. STRUTS SHALL NOT REPLACE HANGER WIRES.
2. THE MINIMUM ACCEPTABLE ANGLE IS DETERMINED SUCH THAT THE WIRES DO NOT INTERFERE WITH THE RUNNERS, LIGHT FIXTURES, ETC. AND REMAIN STRAIGHT AND UNOBSTRUCTED.

IR 25-2.13 2.35 (3)

3" = 1'-0"

REVIEWED BY: DISTRICT ARCHITECT — DATE; ASSISTANT DISTRICT ARCHITECT — DATE; OTHER — DATE; OTHER — DATE; OTHER — DATE; OTHER — DATE; DSA

CONSULTANT

ARCHITECT/CONSULTANT

LICENSED ARCHITECT — LEWIS BAKER — C-18627 — 06/30/21 — STATE OF CALIFORNIA

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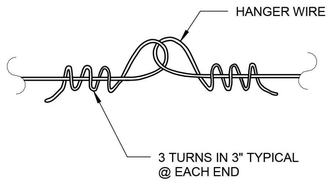
ARCHITECTURAL DETAILS

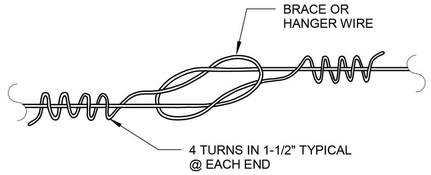
COLLEGE SERVICES BUILDING

PALO VERDE COMMUNITY COLLEGE DISTRICT
West Sixth Avenue, Blythe, CA 92225

PROJECT NO. 20016	A.P.
20016 Palo Verde College	
DATE 03/22/2021	DRAWN AH / CHECKED MS
REVISIONS	SHEET NO. -
A-802	14 OF 38 SHEETS



HANGER WIRE ONLY



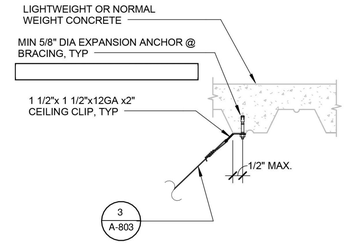
HANGER OR BRACE WIRE

NOTES:

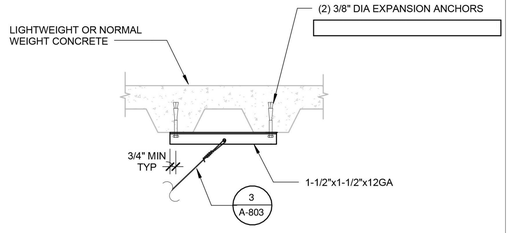
WIRE SPLICES ARE SHOWN LOOSELY TIED FOR ILLUSTRATIVE PURPOSES ONLY AND SHALL BE DRAWN TIGHT TO COMPLETE INSTALLATION WHEN CONSTRUCTED.

IR 25-2.13 6.10 3

3" = 1'-0"



OPTION 1



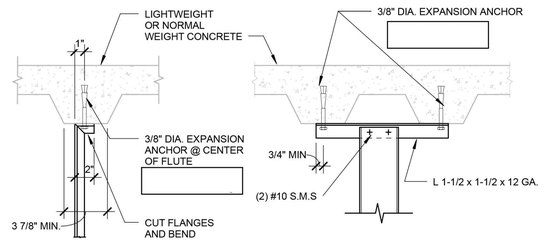
OPTION 2

NOTES:

1. TEST POST INSTALLED ANCHORS IN ACCORDANCE WITH CEILING NOTE 5.02
2. REFERE TO 1/A-802 FOR ADDITIONAL DETAILS.
3. POST INSTALLED ANCHORS TO BE PLACED NO MORE THAN 1" OFFSET FROM CENTERLINE OF DECK LOW FLUTE.

IR 25-2.13 4.31 1

3" = 1'-0"



OPTION 1 OPTION 2

CHANNEL STRUT

IR 25-2.13 5.21 2

3" = 1'-0"

REVIEWED BY

	DISTRICT ARCHITECT	ASSISTANT DISTRICT ARCHITECT	OTHER	OTHER	OTHER	OTHER	DSA
DATE							

CONSULTANT

ARCHITECT-CONSULTANT

LICENSED ARCHITECT — STATE OF CALIFORNIA — C-18627 — 06/30/21

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MECHANICAL LEGEND (SYMBOLS) AND ABBREVIATIONS

VALVES AND FITTINGS

- BALL VALVE
- CHECK VALVE
- BACKFLOW PREVENTOR
- GATE VALE
- PRESSURE REDUCING VALVE
- CONTROL VALVE
- CALIBRATED BALANCING VALVE
- BUTTERFLY VALVE
- PLUG VALVE
- GLOBE VALVE
- AUTOMATIC FLOW CONTROL VALVE
- TRIPLE DUTY VALVE
- SOLENOID VALVE
- STEAM TRAP
- SMOKE DUCT DETECTOR
- BLIND FLANGE
- TRICLAMP
- PIPE CAP (THREADED)
- PIPE CAP (WELDED)
- UNION
- REDUCER
- STRAINER
- THERMOMETER
- PRESSURE GAUGE
- RELIEF VALVE
- AUTOMATIC AIR VENT
- FLEXIBLE PIPE CONNECTION

PIPING

- RL — REFRIGERANT LIQUID
- RS — REFRIGERANT SUCTION
- RG — REFRIGERANT GAS
- HWS — HEATING HOT WATER SUPPLY
- HWR — HEATING HOT WATER RETURN
- CHWS — CHILLED WATER SUPPLY
- CWSR — CHILLED WATER RETURN
- CWS — CONDENSER WATER SUPPLY
- CWR — CONDENSER WATER RETURN
- STM — PLANT STEAM
- CN — CONDENSATE RETURN
- FW — FEEDWATER (STEAM)
- SW — SOFTWATER
- D — DRAIN
- CSTM — CLEAN STEAM
- CCA — CLEAN COMPRESSED AIR
- PIPE DOWN
- PIPE UP
- PIPE DOWN

SYMBOLS

- SQUARE DIFFUSER / REGISTER
  A = DESIGNATION
  B = AIRFLOW
- GRILLE
  A = DESIGNATION
  B = AIRFLOW
  C= SIZE
- LINEAR DIFFUSER
  A = DESIGNATION
  B = AIRFLOW
  C= LENGTH (FEET)
  D = NUMBER OF SLOTS
  E = SLOT SIZE (INCHES)
- EQUIPMENT TAG
  A = TYPE
  B = EQUIPMENT NUMBER / UNIQUE IDENTIFIER
- SUPPLY DIFFUSER
  THROW DIRECTION AS INDICTED ON PLANS (4-WAY IF NONE INDICATED)
- RETURN GRILLE
- EXHAUST GRILLE
- DETAIL/SHEET REFERENCE
  (DETAIL "A" ON DRAWING "B")
- SECTION OR ELEVATION REFERENCE
  (SECTION "A" ON DRAWING "B")
- SUPPLY DUCT SECTION
- RETURN DUCT SECTION
- EXHAUST DUCT SECTION
- REMOVE EXIST. EQUIP. OR PIPES SHOWN HATCHED
- DUCT RISE (IN DIRECTION OF ARROW)
- DUCT DROP (IN DIRECTION OF ARROW)
- DUCT WITH SOUND INSULATION/LINING
- CONNECT TO EXISTING EQUIPMENT, DUCTWORK, PIPING
- LIMITS OF DUCTWORK, PIPING DISCONNECTION
- SMOKE FIRE DAMPER (SFD)
- ROOM SENSOR (ASSOCIATED MECHANICAL UNIT)

ABBREVIATIONS

A/C	AIR CONDITIONING	FA	FREE AREA IN SQUARE FEET	OSA	OUTSIDE AIR
ABS	ABSOLUTE	FC	FAIL CLOSED; FLEXIBLE CONNECTION	OBD	OPPOSED BLADE DAMPER
AFF	ABOVE FINISHED FLOOR	FLA	FULL LOAD AMPS	OED	OPEN END DUCT
AFG	ABOVE FINISHED GRADE	FLX	FLEXIBLE CONNECTION	PH	PHASE
ALUM.	ALUMINUM	FPM	FEET PER MINUTE	PLBG	PLUMBING
AMPS	AMPERES	FPS	FEET PER SECOND	PSIG	POUNDS PER SQUARE INCH GAUGE
AP	ACCESS PANEL	GAL.	GALLON	QTY	QUANTITY
ATM.	ATMOSPHERE	GALV	GALVANIZED	RA	RETURN AIR
AUTO.	AUTOMATIC	GE	GENERAL EXHAUST	S.S.	STAINLESS STEEL
BAS	BUILDING AUTOMATION SYSTEM	GPH	GALLON PER HOUR	SA	SUPPLY AIR
BHP	BRAKE HORSE POWER	GPM	GALLON PER MINUTE	SEC	SECOND
B/G	BELOW GRADE	HP	HORSE POWER	SFD	SMOKE FIRE DAMPER
BTU	BRITISH THERMAL UNIT	HVAC	HEATING VENTILATING AND AIR-CONDITIONING	SP	STATIC PRESSURE
CFM	CUBIC FEET PER MINUTE	HZ	HERTZ	SQ.FT.	SQUARE FEET OR SQUAR FOOT
DB	DRY BULB	IN	INCHES	STD	STANDARD
DDC	DIRECT DIGITAL CONTROL	IN WG	INCHES OF WATER GAUGE	TBR	TO BE REMOVED
DIA	DIAMETER	K.W.	KILOWATTS	TEMP.	TEMPERATURE
DN	DOWN	LAT	LEAVING AIR TEMPERATURE	TF	TRANSFER
DTR	DOWN THROUGH ROOF	LDB	LEAVING DRY BULB TEMPERATURE	TSP	TOTAL STATIC PRESSURE
E OR (E)	EXISTING	LWB	LEAVING WET BULB TEMPERATURE	TYP	TYPICAL
EA	EXHAUST AIR	LWT	LEAVING WATER TEMPERATURE	U.N.O.	UNLESS NOTED OTHERWISE
EAT	ENTERING AIR TEMPERATURE	MA	MAKEUP AIR	UTR	UP THROUGH ROOF
EDB	ENTERING DRY BULB TEMPERATURE	NC	NORMALLY CLOSED	W/	WITH
ETR	EXISTING TO REMAIN	NO	NORMALLY OPEN	W/O	WITHOUT
ESP	EXTERNAL STATIC PRESSURE	N.I.C.	NOT IN CONTRACT	WB	WET BULB
EWB	ENTERING WET BULB TEMPERATURE	NTS	NOT TO SCALE	WMS	WIRE MESH SCREEN
EWT	ENTERING WATER TEMPERATURE			VFD	VARIABLE FREQUENCY DRIVE

AIR DISTRIBUTION DEVICE SCHEDULE

PLAN MARK	MANUFACTURER & MODEL NO.	SERVICE	NECK SIZE	AIRFLOW (CFM)	FACE SIZE	BORDER TYPE	DESCRIPTION	FINISH	REMARKS
A –	PRICE SMCD	SUPPLY	6x6	0 – 100	24x24	LAY-IN	MODULAR CORE SUPPLY DIFFUSER WITH FOUR REMOVABLE AIRFLOW MODULES AND PERFORATED FACE	OFF WHITE	PROVIDE SQUARE-TO-ROUND ADAPTER. INSTALL WITH 4-WAY THROW UNLESS NOTED OTHERWISE ON PLANS.
			8x8	110 – 220					
			10x10	230 – 390					
			12x12	400 – 600					
			14x14	610 – 800					
			18x18	810 – 1000					
B –	PRICE PDDR	RETURN	6"	0 – 100	24x24	LAY-IN	PERFORATED FACE RETURN GRILLE	OFF WHITE	SIZE NECK SIZE TO EQUAL THE LARGER OF THE DUCT SIZE INDICTED ON THE PLANS OR THE NECK SIZE SCHEDULE ACCORDING TO AIRFLOW. IN CASES OF TRANSFER DUCTS, SIZE NECK PER DUCT SIZE INDICATED ON PLANS. SUBSTITUTE SQUARE NECK FOR LOW CLEARANCE APPLICATION.
			8"	110 – 220					
			10"	230 – 390					
			12"	400 – 600					
			14"	610 – 800					
			18x18	810 – 1300					
			22x22	1310 – 1800					

NEW VARIABLE AIR VOLUME (VAV) REHEAT BOX SCHEDULE

PLAN MARK	MANUFACTURER & MODEL NO.	SERVICE	INLET SIZE (DIA)	AIRFLOW (CFM)		HEATING AIRFLOW (CFM)	MIN HEATING CAPACITY (MBH)	EAT (DEG F)	LAT (DEG F)	EWT (DEG F)	WATER FLOW (GPM)	NUMBER OF ROWS	OPER. WT. (LBS.)	REMARKS
				MAXIMUM	MINIMUM									
VRB 91A	TUTTLE AND BAILEY SDV	BUSINESS SERVICES	10	800	160	290	8.8	60	88	180	0.6	1	50	PROVIDE WITH DDC CONTROLS AND TIE INTO EXISTING DDC NETWORK.
VRB 91B	TUTTLE AND BAILEY SDV	OFFICE 130 & 131	8	550	110	220	7.0	60	90	180	0.5	1	50	PROVIDE WITH DDC CONTROLS AND TIE INTO EXISTING DDC NETWORK.

MECHANICAL PLAN CHECK NOTES

1. CALIFORNIA MECHANICAL CODE (CMC) 2019, CALIFORNIA PLUMBING CODE (CPC) 2019 AND 2019 TITLE 24 ENERGY STANDARDS ARE THE CODES/STANDARDS THAT ARE APPLICABLE TO THIS PROJECT.
2. SEE TITLE 24 CALCULATION FORMS NRCC-ENV-E FOR INSULATION AND MATERIAL ASSEMBLY OF WALL, ROOF AND FLOOR. SEE ARCHITECTURAL DRAWINGS FOR MATERIAL ASSEMBLY SECTIONS ON PLANS.
3. ALL INSULATION MATERIAL SHALL COMPLY WITH THE CMC SECTION 602.2. FLAME SPREAD-RATING OR 25 OR LESS AND A SMOKE DEVELOPED RATING OF 50 OR LESS.
4. HVAC PIPING AND DUCTWORK SYSTEMS SHALL BE INSULATED WITH MATERIALS CONSISTENT WITH THE REQUIREMENTS OF SECTIONS 110.8, 120.3, AND 120.4 OF THE CALIFORNIA ENERGY EFFICIENCY STANDARDS, AND 2019 CALIFORNIA MECHANICAL CODE (CMC) CHAPTER 6, TABLE 6-D. FLAME SPREAD-RATING OR 25 OR LESS AND A SMOKE DEVELOPED RATING OF 50 OR LESS.
5. ALL HVAC EQUIPMENT AND APPLIANCES SHALL MEET THE REQUIREMENTS PER SECTIONS 110.1-110.3, 110.5 AND 120.1-120.9 OF THE CALIFORNIA ENERGY EFFICIENCY STANDARDS.
6. HVAC SYSTEMS AUTOMATIC CONTROLS SHALL COMPLY WITH THE CONTROL REQUIREMENTS PER SECTIONS 110.2 AND 120.2 OF THE CALIFORNIA ENERGY EFFICIENCY STANDARDS.
7. ALL MATERIALS EXPOSED WITHIN DUCTS OR PLENUMS, FLEXIBLE DUCTS AND DUCT INSULATION SHALL COMPLY WITH CMC SECTION 602.2 AND SHALL HAVE A FLAME SPREAD RATING OF NOT MORE THAN 25 AND A SMOKE DEVELOPED RATING OF NOT MORE THAN 50.
8. ALL DOORS AND WINDOWS SHALL MEET THE MINIMUM INFILTRATION REQUIREMENTS PER SECTION 110.6 AND 110.7 OF THE CALIFORNIA ENERGY EFFICIENCY STANDARDS.
9. AT THE TIME OF PERMIT ISSUANCE, THE PERMITEE WILL PROVIDE AN APPROVED COPY OF THE CERTIFICATE OF COMPLIANCE (MECH-1) TO THE JURISDICTION FOR FILING.
10. PROVIDE SMOKE DETECTORS ON AIR MOVING SYSTEMS EXCEEDING 2000 CFM AT SUPPLY AIR DUCTS. (2019 CMC 608.1)
11. FIRE AND/OR SMOKE DAMPER ASSEMBLIES, INCLUDING SLEEVES, AND INSTALLATION PROCEDURES SHALL BE APPROVED BY THE BUILDING INSPECTOR PRIOR TO INSTALLATION.
12. ALL WATER HEATERS/ BOILERS SHALL BE STRAPPED OR ANCHORED PER SEC. 510.5 OF THE CPC TO RESIST HORIZONTAL DISPLACEMENT DUE TO EARTHQUAKE MOTION.
13. AIR FILTERS SHALL BE A STATE FIRE MARSHALL APPROVED AND LISTED TYPE. PRE-FORMED FILTERS HAVING COMBUSTIBLE FRAMING SHALL BE TESTED AS A COMPLETE ASSEMBLY. AIR FILTERS IN ALL OCCUPANCIES SHALL BE CLASS 1 OR 2 (AS SHOWN IN THE STATE FIRE MARSHALL LISTING). AIR FILTERS SHALL BE ACCESSIBLE FOR CLEANING OR REPLACEMENT. (305.0 CMC)
14. CERTIFICATE OF ACCEPTANCE AND ALL RELATED ACCEPTANCE DOCUMENTS SHALL BE SUBMITTED TO THE FIELD INSPECTOR DURING CONSTRUCTION. CERTIFICATE OF OCCUPANCY WILL NOT BE ISSUED UNTIL THESE FORMS ARE REVIEWED AND APPROVED.
15. PENETRATIONS IN FIRE-RESISTIVE WALLS, PARTITIONS AND FLOORS WHERE PROTECTED OPENINGS ARE REQUIRED SHALL BE FIRE STOPPED USING APPROVED MATERIALS, SECURELY INSTALLED AND CAPABLE OF MAINTAINING THEIR INTEGRITY AND PREVENTING THE MOVEMENT OF HOT FLAMES OR GASES THROUGH THE VOID SPACES BETWEEN PENETRATING MATERIALS AND WALLS, PARTITIONS AND FLOORS WHEN TESTED IN ACCORDANCE WITH ASTM STANDARD E-814 OR UL STANDARD 1479. PROVIDE DESIGN DETAILS ON DRAWINGS DEPICTING APPROVED (LISTED) METHODS AND MATERIALS USED TO PROTECT PENETRATIONS IN WALLS, PARTITIONS AND FLOORS.
16. PROVIDE DESIGN DETAILS ON DRAWINGS DEPICTING APPROVED (LISTED) METHODS AND MATERIALS USE TO PROTECT PENETRATIONS IN WALLS, PARTITIONS AND FLOORS.
17. FACTORY-MADE FLEXIBLE AIR DUCTS AND CONNECTORS SHALL NOT BE MORE THAN 5 FEET IN LENGTH PER SECTION 603.4.1 CMC.
18. SCREENS/ LOUVERS SHALL NOT BE INSTALLED AT DRYER VENT TERMINATIONS PER SECTION 504.4 CMC.
19. ROOF ACCESS LADDER SHALL COMPLY WITH SECTION 304 CMC.

HVAC GENERAL NOTES

1. CONTRACTOR SHALL CAREFULLY REVIEW THESE PLANS AND SPECIFICATIONS PRIOR TO BID. CONTRACTOR SHALL ALSO REVIEW PLANS AND SPECIFICATIONS OF OTHER RELATED TRADES (INCLUDING CIVIL, STRUCTURAL, AND ELECTRICAL) PRIOR TO BID TO ENSURE AN ACCURATE UNDERSTANDING OF EXACT SCOPE OF WORK. ANY ITEMS REQUIRING CLARIFICATION SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT IN SUFFICIENT TIME TO BE INCORPORATED INTO THE BID.
2. CONTRACTOR SHALL VERIFY ALL EQUIPMENT MODEL NUMBERS, CAPACITIES, SIZES, VOLTAGES, AND ALL OTHER SCHEDULED INFORMATION WITH ALL OTHER APPLICABLE TRADES AND WITH THE MANUFACTURER PRIOR TO INSTALLATION.
3. CONTRACTOR SHALL VERIFY ALL LOCATIONS, SIZES, P.O.C.'s, AND AVAILABILITY OF ALL EXISTING ITEMS (I.E.: OUTSIDE AIR, CWS & CWR, EXHAUST ETC.) PRIOR TO INSTALLATION OF ANY MATERIAL OR EQUIPMENT.
4. THESE DRAWINGS ARE ESSENTIALLY DIAGRAMMATIC AND ARE NOT INTENDED TO INDICATE ALL NECESSARY OFFSETS OF DUCTWORK AND PIPING. THE CONTRACTOR SHALL INSTALL MATERIAL AND EQUIPMENT IN A MANNER AS TO CONFORM TO STRUCTURE, AVOID OBSTRUCTIONS, PRESERVE HEADROOM, AND KEEP OPENINGS AND PASSAGEWAYS CLEAR. ALL INSTALLATIONS SHALL BE CONSISTENT WITH NORMALLY ACCEPTABLE INDUSTRY STANDARDS. THE CONTRACTOR SHALL NOTIFY THE ARCHITECT IN WRITING OF ANY DISCREPANCIES OR CONFLICTS THAT WOULD AFFECT THE SYSTEM PERFORMANCE OR WHICH WOULD INCUR ADDITIONAL COSTS. THIS NOTIFICATION SHALL BE MADE PRIOR TO THE INSTALLATION OF THE ITEMS CONCERNED.
5. NEW AND/OR EXISTING EQUIPMENT INDICATED ON THIS DRAWING IS SHOWN IN APPROXIMATE POSITION(S). CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS INCLUDING EQUIPMENT LOCATIONS, P.O.C.'s AND STRUCTURAL MEMBERS PRIOR TO INSTALLATION. IN ALL CASES, ADEQUATE ACCESS (PER MANUFACTURER'S RECOMMENDATIONS AND CODE COMPLIANCE) FOR MAINTENANCE AND REPLACEMENT OF EQUIPMENT SHALL BE PROVIDED.
6. ALL WORK SHALL BE DONE IN ACCORDANCE WITH ALL APPLICABLE CODES. NOTHING SHOWN IN THE PLANS OR STATED IN THE SPECIFICATIONS IS INTENDED TO INDICATE THAT THE INSTALLATION OF CONNECTIONS OF ANY ITEM OR DEVICE SHOULD BE DONE CONTRARY TO THE MANUFACTURER'S INSTRUCTIONS AND ALL APPLICABLE CODES AND REGULATIONS. THE CONTRACTOR IS RESPONSIBLE TO ENSURE THAT THE INSTALLATION AND CONNECTIONS OF ALL ITEMS AND DEVICES CONFORM TO MANUFACTURER'S INSTRUCTIONS AND TO ALL APPLICABLE CODES AND REGULATIONS.
7. ALL HVAC EQUIPMENT, MATERIAL, AND ALL CONNECTION THERETO SHALL BE INSTALLED COMPLETE PER MANUFACTURER'S INSTRUCTIONS TO PROVIDE A COMPLETE AND FULLY OPERATIONAL SYSTEM.
8. DUCT SIZES INDICATED ON DRAWINGS ARE INSIDE NET CLEARANCE DIMENSIONS.
9. CONTRACTOR MAY, AT HIS OPTION, REVISE DUCTWORK SIZING AND ROUTING TO ALLOW FOR INSTALLATION IN THE AVAILABLE SPACE. DUCTWORK THAT IS RESIZED MUST MAINTAIN THE SAME CROSS-SECTIONAL AREA. FLEX DUCT IS LIMITED TO A MAXIMUM OF 5' AT EACH REGISTER.
10. ALL NEW SUPPLY, RETURN, AND EXHAUST (AIR DISTRIBUTION) GRILLES, REGISTERS, AND DIFFUSERS SHALL MATCH (IF APPLICABLE) EXISTING, AND BE APPROVED BY ARCHITECT. THE MAXIMUM NOISE NC LEVEL SHALL BE 35.
11. ALL SUPPLY, RETURN, AND EXHAUST REGISTER CONNECTIONS TO DUCTWORK SHALL BE PROVIDED WITH ACCESSIBLE MANUAL VOLUME DAMPERS. ALTERNATIVELY, ACCESSIBLE MANUAL VOLUME DAMPERS MAY BE PROVIDED IN DUCT WORK FEEDER LINES SERVING INDIVIDUAL REGISTERS.
12. SUBSTITUTION OF HVAC EQUIPMENT WITH EFFICIENCIES LOWER THAT THOSE INDICATED ON THE PLANS MAY REQUIRE RECALCULATION OF TITLE 24 DOCUMENTS. IF THE CONTRACTOR CHOOSES TO UTILIZE SUCH EQUIPMENT, HE ASSUMES FULL RESPONSIBILITY FOR THE RECALCULATION AND JURISDICTIONAL APPROVAL OF TITLE 24 DOCUMENTS.
13. IF THE CONTRACTOR'S USE OF SUBSTITUTE MATERIALS, EQUIPMENT, OR METHODS OF INSTALLATION REQUIRES ANY CHANGES IN OTHER TRADES' WORK FROM THAT SHOWN ON THE DRAWINGS, THE EXTRA COST OF THE OTHER TRADES WORK SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR INITIATING THE SUBSTITUTION.
14. SUBMITTALS: APPROVAL OF SUBMITTALS DOES NOT RELEASE THE CONTRACTOR FROM OBLIGATIONS TO COMPLY WITH ALL REQUIREMENTS OF THE CONSTRUCTION DOCUMENTS OR APPLICABLE CODE REGULATIONS.
15. WHERE NONMETALLIC PIPING PENETRATES AREA SEPARATION WALLS, THE PIPE SECTION PASSING THROUGH THE WALLS AND THE FIXTURE CONNECTIONS THERETO SHALL BE OF METAL ONLY.
16. NO RANGE HOODS, DRYER VENTS, COMBUSTION VENTS, OR HEATING DUCTS ARE PERMITTED IN AREA SEPARATION WALLS.
17. A. CONTRACTOR TO VERIFY LOCATION OF FIRE AND FIRE/SMOKE BARRIER WALLS WITH ARCHITECT PRIOR TO FIRE AND/OR SMOKE DAMPER, DETECTOR AND ACTUATOR INSTALLATION.
    B. ALL CEILING FIRE DAMPERS TO BE ONE (1) HOUR U.L. AND C.S.F.M. APPROVED.
    C. ALL FIRE RATED WALLS SHALL BE PROVIDED WITH U.L. AND C.S.F.M. APPROVED SMOKE/FIRE DAMPERS (EQUAL TO WALL RATING), MOTOR, ACTUATOR, AND SMOKE DETECTOR.
    D. ALL SMOKE BARRIER WALLS SHALL BE PROVIDED WITH U.L. AND C.S.F.M. APPROVED SMOKE/FIRE DAMPERS (EQUAL TO WALL RATING), MOTOR, ACTUATOR, AND SMOKE DETECTOR.
    E. ALL PENETRATIONS OF ONE (1) HOUR CORRIDOR WALLS AND CEILINGS THAT WOULD REQUIRE THE INSTALLATION OF A FIRE DAMPER SHALL BE APPROVED WITH A U.L. AND C.S.F.M. APPROVED COMBINATION SMOKE/FIRE DAMPER, (EQUAL TO WALL RATING), MOTOR, ACTUATOR, AND SMOKE DETECTOR.
    F. PROVIDE ALL FIRE & SMOKE DAMPERS WITH ACCESS DOORS AS NECESSARY.

EXISTING VARIABLE AIR VOLUME (VAV) REHEAT BOX SCHEDULE (FOR REFERENCE ONLY)

PLAN MARK	MANUFACTURER & MODEL NO.	SERVICE	INLET SIZE (DIA)	AIRFLOW (CFM)		HEATING AIRFLOW (CFM)	MIN HEATING CAPACITY (MBH)	EAT (DEG F)	LAT (DEG F)	EWT (DEG F)	WATER FLOW (GPM)	NUMBER OF ROWS	OPER. WT. (LBS.)	REMARKS
				MAXIMUM	MINIMUM									
(E)VRB-84	TUTTLE AND BAILEY SDV	FACULTY/ STAFF DINING	12	1,550	465	–	–	–	–	–	–	–	–	EXISTING TO REMAIN
(E)VRB-85	TUTTLE AND BAILEY SDV	DINING & STUDENT ACTIVITIES	14	1,950	585	–	–	–	–	–	–	–	–	EXISTING TO REMAIN
(E)VRB-87	TUTTLE AND BAILEY SDV	DIRECTOR	8	350	175	–	–	–	–	–	–	–	–	EXISTING TO REMAIN
(E)VRB-88	TUTTLE AND BAILEY SDV	A&R	8	350	175	–	–	–	–	–	–	–	–	EXISTING TO REMAIN
(E)VRB-90	TUTTLE AND BAILEY SDV	ASB STUDENT LOUNGE/GAME	12	1,250	400	–	–	–	–	–	–	–	–	EXISTING TO REMAIN
(E)VRB-92	TUTTLE AND BAILEY SDV	DEAN OF BUSINESS	8	350	175	–	–	–	–	–	–	–	–	EXISTING TO REMAIN
(E)VRB-93	TUTTLE AND BAILEY SDV	ROOM CS121A	8	400	175	–	–	–	–	–	–	–	–	EXISTING TO REMAIN
(E)VRB-94	TUTTLE AND BAILEY SDV	MEETING ROOM & ROOM CS119	8	350	175	–	–	–	–	–	–	–	–	EXISTING TO REMAIN
(E)VRB-95	TUTTLE AND BAILEY SDV	CASHIER ROOM	6	300	100	–	–	–	–	–	–	–	–	EXISTING TO REMAIN
(E)VRB-98	TUTTLE AND BAILEY SDV	EAR, DIRECTOR, ACAD COUNS, ROOM CS112	8	600	200	–	–	–	–	–	–	–	–	EXISTING TO REMAIN

J&R Engineering & Consulting, Inc.
16769 Bernardo Center Drive, Suite 1 #768
San Diego, CA 92128

REVIEWED BY

	DATE	
DSA		
DISTRICT ARCHITECT	DATE	
ASSISTANT DISTRICT ARCHITECT	DATE	
OTHER	DATE	
OTHER	DATE	
OTHER	DATE	
OTHER	DATE	

CONSULTANT

REGISTERED PROFESSIONAL ENGINEER
SCOTT H. JOHNSON
No. M 32413
MECHANICAL
STATE OF CALIFORNIA

ARCHITECT/CONSULTANT

LICENSED ARCHITECT
SCOTT WRIGHT
RC-18627
06/30/21
STATE OF CALIFORNIA

PALO VERDE COLLEGE
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Palo Verde Community College District
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MECHANICAL LEGEND, NOTES AND SCHEDULES

COLLEGE SERVICES BUILDING
PALO VERDE COMMUNITY COLLEGE DISTRICT
West Sixth Avenue, Blythe, CA 92225

PROJECT NO. 20-040 A.P.
20016 Palo Verde College
DATE 8/10/2020 DRAWN MH CHECKED MR
REVISIONS
SHEET NO. -
M001
OF 16-38 SHEETS

File Path: BIM 360://Palo Verde College - College Services TI/20016 Palo Verde College.rvt

CERTIFICATE OF COMPLIANCE			NRCC-MCH-E
Project Name:	Palo Verde Community College - College Services TI	**Report Page:**	(Page 1 of 8)
Project Address:	1 College Drive	**Date Prepared:**	7/31/2020

This document is used to demonstrate compliance for mechanical systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in §140.4, or §141.0(b)2 for alterations.

A. GENERAL INFORMATION

01	Project Location (city)	Blythe	04	Total Conditioned Floor Area	971
02	Climate Zone	15	05	Total Unconditioned Floor Area	0
03	Occupancy Types Within Project:		06	# of Stories (Habitable Above Grade)	1
☒ Office (B)		☐ Retail (M)	☐ Non-refrigerated Warehouse (S)		
☐ Hotel/ Motel Guest Rooms (R-1)		☐ School (E)	☐ Healthcare Facility (H)		
☐ High-Rise Residential (R-2/R-3)		☐ Relocatable Class Bldg (E)	☐ Other (write in)		See Table J

B. PROJECT SCOPE

This table Includes mechanical systems or components that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in §140.4, or §141.0(b)2 for alterations.

01	02	03
Air System(s)	Wet System Components	Dry System Components
☐ Heating Air System	☐ Water Economizer	☐ Air Economizer
☐ Cooling Air System	☐ Pumps	☐ Electric Resistance Heat
Mechanical Controls	☐ System Piping	☐ Fan Systems
☒ Mechanical Controls	☐ Cooling Towers	☐ Ductwork
	☐ Chillers	☐ Ventilation
	☐ Boilers	☒ Zonal Systems/ Terminal Boxes

CERTIFICATE OF COMPLIANCE			NRCC-MCH-E
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C. COMPLIANCE RESULTS

Table C will indicate if the project data input into the compliance document is compliant with mechanical requirements. This table is not editable by the user. If this table says "DOES NOT COMPLY" or "COMPLIES with Exceptional Conditions" refer to Table D., or the table indicated as not compliant for guidance.

01		02		03		04		05		06		07		08	09
System Summary §110.1, §110.2, §140.4	AND	Pumps §140.4(k)	AND	Fans/ Economizers §140.4(c), §140.4(e)	AND	System Controls §110.2, §120.2, §140.4(f)	AND	Ventilation §120.1	AND	Terminal Box Controls §140.4(d)	AND	Distribution §120.3, §140.4(l)	AND	Cooling Towers §110.2(e)2	Compliance Results
(See Table F)		(See Table G)		(See Table H)		(See Table I)		(See Table J)		(See Table K)		(See Table L)		(See Table M)	
	AND		AND	Yes	AND	Yes	AND	Yes	AND	Yes	AND		AND		COMPLIES
Mandatory Measures Compliance (See Table Q for Details)										COMPLIES					

D. EXCEPTIONAL CONDITIONS

This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.

E. ADDITIONAL REMARKS

This table includes remarks made by the permit applicant to the Authority Having Jurisdiction.

F. HVAC SYSTEM SUMMARY (DRY & WET SYSTEMS)

This table is used to demonstrate compliance for mechanical equipment with mandatory requirements found in §110.1 and §110.2(a) and prescriptive requirements found in §140.4(a), §140.4(b) and §140.4(k) or §141.0(b)2 for alterations.

G. PUMPS

This section does not apply to this project.

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H. FAN SYSTEMS & AIR ECONOMIZERS

This table is used to demonstrate compliance with prescriptive requirements found in §140.4(c), §140.4(e) and §140.4(m) for fan systems. Fan systems serving healthcare facilities, or those serving only process loads, are exempt from these requirements and do not need to be included in Table H.

System Name:	(E)AH-11	Economizer:[1]	Differential Temperature	Economizer Controls:	Designed per and (m)	System Fan Type:	Variable Flow
01	02	03	04	05	06	07	08
Fan Name or Item Tag	Fan Function	Qty	Maximum Design Supply Airflow (CFM)	HP Unit[2]	Design HP	Fan Power Pressure Drop Adjustment - Table 140.4-B: Device	Design Airflow through Device (CFM)
SF	Supply	1	9750	BHP	10.5		
Total System Design Supply Airflow (CFM):			9750	Total System Design (B)HP:	10.5	Maximum System Fan Power (B)HP:	12.68

[1] FOOTNOTES: Computer room economizers must meet requirements of §140.9(a) and will be documented on the NRCC-PRC-E document.

[2] If total filter pressure drop (SPa) is greater than 1 in WC, or 245 Pascal then enter it and total fan pressure drop across the fan (SPf) for system.

I. SYSTEM CONTROLS

This table is used to demonstrate compliance with mandatory controls in §110.2 and §120.2 and prescriptive controls in §140.4(f) and (n) or requirements in §141.0(b)2E for altered space conditioning systems.

01	02	03	04	05	06	07	08	09
System Name	System Zoning	Conditioned Floor Area Being Served (ft^2)	Thermostats §110.2(b) & (c)[1], §120.2(a)or §141.0(b)2E	Shut-Off Controls §120.2(e)	Isolation Zone Controls §120.2(g)	Demand Response §120.2(b)	Supply Air Temp. Reset §140.4(f)	Window Interlocks per §140.4(n)
(E)AH-11	Multi-zone w/ DDC to zone	<= 25,000 ft^2	Energy Management System (EMS)	EMCS	EMCS	EMCS	NA: Alteration	NA: No operable windows

[1] FOOTNOTES: Gravity gas wall heaters, gravity floor heaters, gravity room heaters, non-central electric heaters, fireplaces or decorative gas appliances, wood stoves are not required to have setback thermostats.

*Notes: Controls with a * require a note in the space below explaining how compliance is achieved. EX: system 1: SA Temp Reset: Exempt because zones compliant with §140.4(d) ; EXCEPTION 1 to §140.4(f)

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J. VENTILATION AND INDOOR AIR QUALITY

This table is used to demonstrate compliance with mandatory ventilation requirements in §120.1 and §120.2(e)3B for all nonresidential, high-rise residential and hotel/motel occupancies. For alterations, only ventialtion systems being altered within the scope of the permit application need to be documented in this table. In lieu of this table, the required outdoor ventilation rates and airflows may be shown on the plans or the calculations can be presented in a spreadsheet.

01	☐	Check the box if the project is showing ventilation calculations on the plans, or attaching the calculations instead of completing this table.
02	☐	Check this box if the project included new or altered high-rise residential dwelling units.
03	☐	Check the box if the project is using natural ventilation in any nonresidential or hotel/motel spaces to meet required ventilation rates per §120.1(c)2.

Nonresidential and Hotel/ Motel Ventilation Systems

04		05		06		07
System Name	(E)AH-11	System Design OA CFM Airflow[1]	149.25	System Design Transfer Air CFM	0	Air Filtration per §120.1(c) and §141.0(b)2 [2]: Provided per §120.1(c) (NR and Hotel/Motel))

08	09	10	11	12	13	14	15	16	
Space Name ot item Tag	Mechanical Ventilation Required per §120.1(c)3 [3]: Occupancy Type[4]	Conditioned Floor Area (ft^2)	# of Shower heads/ toilets	# of people[5]	Required Min OA CFM	Exh. Vent per §120.1(c)4: Required Min CFM	Provided per Design CFM	DCV or Sensor Controls per §120.1(d)3, §120.1(d)5, and §120.1(e)3 [6]	
(E)VRB-91A	Office space	781			117.2	0	0	DCV	NA: Not required per §120.1(d)3
								Occ Sensor	
(E)VRB-91B	Office space	190			28.5	0	0	DCV	NA: Not required per §120.1(d)3
								Occ Sensor	

[1] FOOTNOTES: System CFM should include both mechanical and natural ventilation for the zone/system

[2] Air filtration requirements apply to the following three system types per §120.1(c)1A : space conditioning systems utilizing ducts to supply air to occupiable space; supply-only ventilation systems providing outside air to occupiable space; supply side of balanced ventilation systems including heat recovery and energy recovery ventilation systems providing outside air to occupiable space.

[3] Uniform Mechanical Code may have more stringent ventilation requirements; the most stringent code requirement takes precedence.

[4] See Standards Tables 120.1-A and 120.1-B.

[5] For lecture halls with fixed seating, the expected number of occupants shall be shall be determined in accordance with the California Building Code.

CERTIFICATE OF COMPLIANCE			NRCC-MCH-E
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J. VENTILATION AND INDOOR AIR QUALITY

[6] §120.2(e)3 requires systems serving rooms that are required by §130.1(c) to have lighting occupancy sensing controls to also have occupancy sensing zone controls for ventilation. Examples of spaces which require lighting occupancy sensors include offices 250ft^2 or smaller, multipurpose rooms less than 1,000 ft^2, classrooms, conference rooms, restrooms, aisles and open areas in warehouses, library book stack aisles, corridors, stairwells, parking garages, and loading and unloading zones, unless excepted by §130.1(c).

K. TERMINAL BOX CONTROLS

This table is used to demonstrate compliance with prescriptive zone control requirements in §140.4(d).

01	02	03	04	05	06	07	08	09	10	11	12
		Design			Deadband Compliance			Reheated, Recooled, Mixed Air Compliance			
Zone/System/VAV Box Name or Item Tag	Zonal Control Strategy per §140.4(d)	Peak Primary Airflow CFM	Primary Air in Deadband CFM	Reheated Recooled Mixed Airflow CFM	Outside Air CFM	20% (30% if no DDC) of Peak Primary Airflow CFM	Max Deadband Airflow CFM	50% of Peak Primary Airflow	1st Stage Modulates <=95 °F and Maintains DB Rate?	2nd Stage Modulates from DB Flow to Heating Max Flow?	Complies
(E)VRB-91A	VAV with DDC @ zone	800	160	290	119.2	160	160	400	Yes	Yes	Yes
(E)VRB-91B	VAV with DDC @ zone	550	110	185	30	110	110	275	Yes	Yes	Yes

L. DISTRIBUTION (DUCTWORK and PIPING)

This section does not apply to this project.

M. COOLING TOWERS

This section does not apply to this project.

N. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Selections have been made based on information provided in previous tables of this document. If any selection needs to be changed, please explain why in Table E Additional Remarks. These documents must be provided to the building inspector during construction and can be found online at https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCI/

Yes	No	Form/Title	Field Inspector: Pass	Fail
●	○	NRCI-MCH-01-E - Must be submitted for all buildings	☐	☐

CERTIFICATE OF COMPLIANCE			NRCC-MCH-E
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O. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

Selections have been made based on information provided in previous tables of this document. If any selection needs to be changed, please explain why in Table E Additional Remarks. These documents must be provided to the building inspector during construction and can be found online at https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCA/

Yes	No	Form/Title	Field Inspector: Pass	Fail
○	●	NRCA-MCH-02-A - Outdoor Air must be submitted for all newly installed HVAC units. Note: MCH-02-A can be performed in conjunction with MCH-07-A Supply Fan VFD Acceptance (if applicable) since testing activities overlap.	☐	☐
○	●	NRCA-MCH-03-A - Constant Volume Single Zone HVAC NOTE: This form does not automatically move to "Yes'. If Constant Volume Single Zone HVAC Systems are included in the scope, permit applicant should move this form to "Yes".	☐	☐
○	●	NRCA-MCH-04-A - Air Distribution Duct Leakage	☐	☐
○	●	NRCA-MCH-05-A - Air Economizer Controls	☐	☐
○	●	NRCA-MCH-06-A Demand Control Ventilation Systems must be submitted for all systems required to employ demand controlled ventilation (refer to §120.1(c)3) can vary outside ventilation flow rates based on maintaining interior carbon dioxide (CO_2) concentration setpoints.	☐	☐
○	●	NRCA-MCH-07-A Supply Fan Variable Flow Controls	☐	☐
○	●	NRCA-MCH-08-A Valve Leakage Test	☐	☐
○	●	NRCA-MCH-09-A Supply Water Temperature Reset Controls	☐	☐
○	●	NRCA-MCH-10-A Hydronic System Variable Flow Controls	☐	☐
○	●	NRCA-MCH-11-A Automatic Demand Shed Controls	☐	☐
○	●	NRCA-MCH-12-A FDD for Packaged Direct Expansion Units	☐	☐
○	●	NRCA-MCH-13-A Automatic FDD for Air Handling Units and Zone Terminal Units Acceptance	☐	☐
○	●	NRCA-MCH-14-A Distributed Energy Storage DX AC Systems Acceptance NOTE: This form does not automatically move to "Yes". If Distributed Energy System DX AC Systems are included in teh scope permit applicant should move this form to 'Yes".	☐	☐
○	●	NRCA-MCH-15-A Thermal Energy Storage (TES) System Acceptance NOTE: This form does not automatically move to "Yes". If Chilled water Storage, Ice-on-Coil Internal Melt, Ice-on-Coil External melt, Ice Harvester, Brine, Ice-Slurry, Eutecti Salt, Clathrate Hydrate Slurry (CHS), Cryogenic or Encapsulated (Ice Ball) Systems are included in the scope, permit applicant should move this form to 'Yes".	☐	☐
○	●	NRCA-MCH-16-A Supply Air Temperature Reset Controls	☐	☐
○	●	NRCA-MCH-17-A Condenser Water Temperature Reset Controls	☐	☐
○	●	NRCA-MCH-18-A Energy Management Control Systems	☐	☐

CERTIFICATE OF COMPLIANCE			NRCC-MCH-E
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O. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

Yes	No	Form/Title	Pass	Fail
○	●	NRCA-MCH-19-A Occupancy Sensor Controls	☐	☐
○	●	NRCA-MCH-20 Multi-Family Ventilation	☐	☐
○	●	NRCA-MCH-21 Multi-Family Envelope Leakage	☐	☐

P. DECLARATION OF REQUIRED CERTIFICATES OF VERIFICATION

Selections have been made based on information provided in previous tables of this document. If any selection needs to be changed, please explain why in Table E Additional Remarks. These documents must be completed by a HERS Rater and provided to the building inspector during construction. The finsl documents must be creted by a HERS Providrs registry, but drafts can be found online at https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCV/

Yes	No	Form/Title	Field Inspector: Pass	Fail
○	●	NRCV-MCH-04-H Duct Leakaage Test *NOTE: Must be completed by a HERS Rater*	☐	☐
○	●	NRCV-MCH-24 Enclosure Air Leakaage Worksheet *NOTE: Must be completed by a HERS Rater*	☐	☐
○	●	NRCV-MCH-27 High-rise Resdential *NOTE: Must be completed by a HERS Rater*	☐	☐
○	●	NRCV-MCH-32 Local Mechanical Exhaust *NOTE: Must be completed by a HERS Rater*	☐	☐

Q. MANDATORY MEASURES DOCUMENTATION LOCATION

This table is used to indicate where mandatory measures are documented in the plan set or construction documentation.

01		02
Compliance with Mandatory Measures documented through MCH Mandatory Measures Note Block[1]	Yes	Plan sheet or construction document location: M-Sheets

CERTIFICATE OF COMPLIANCE			NRCC-MCH-E
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Project Address:	1 College Drive	**Date Prepared:**	7/31/2020

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name: Scott Johnson	Documentation Author Signature: (signed)
Company: J&R Engineering & Consulting, Inc.	Signature Date: 2020-07-31
Address: 16885 West Bernardo Drive, Suite 118	CEA/ HERS Certification Identification (if applicable): M32413
City/State/Zip: San Diego CA 92127	Phone: 858-823-2909

RESPONSIBLE PERSON'S DECLARATION STATEMENT

I certify the following under penalty of perjury, under the laws of the State of California:

1. The information provided on this Certificate of Compliance is true and correct.
2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer)
3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.

Responsible Designer Name: Scott Johnson	Responsible Designer Signature: (signed)
Company: J&R Engineering & Consulting, Inc.	Date Signed: 2020-07-31
Address: 16885 W Bernardo Drive, Suite 118	License: M32413
City/State/Zip: San Diego CA 92127	Phone: (619) 823-2909

REVIEWED BY: DISTRICT ARCHITECT — ASSISTANT DISTRICT ARCHITECT — OTHER — OTHER — OTHER — OTHER; DATE; DSA

REGISTERED PROFESSIONAL ENGINEER — SCOTT H. JOHNSON — MECHANICAL — STATE OF CALIFORNIA

LICENSED ARCHITECT — C-18627 — 06/30/21 — STATE OF CALIFORNIA

CONSULTANT — ARCHITECT/CONSULTANT

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TITLE 24

COLLEGE SERVICES BUILDING
PALO VERDE COMMUNITY COLLEGE DISTRICT
West Sixth Avenue, Blythe, CA 92225

PROJECT NO. 20-040	A.P.
20016 Palo Verde College	
DATE 8/10/2020	DRAWN MH; CHECKED MR
REVISIONS	SHEET NO. - **M002** OF 17 - 38 SHEETS

...ering & Inc. Suite 1 #768

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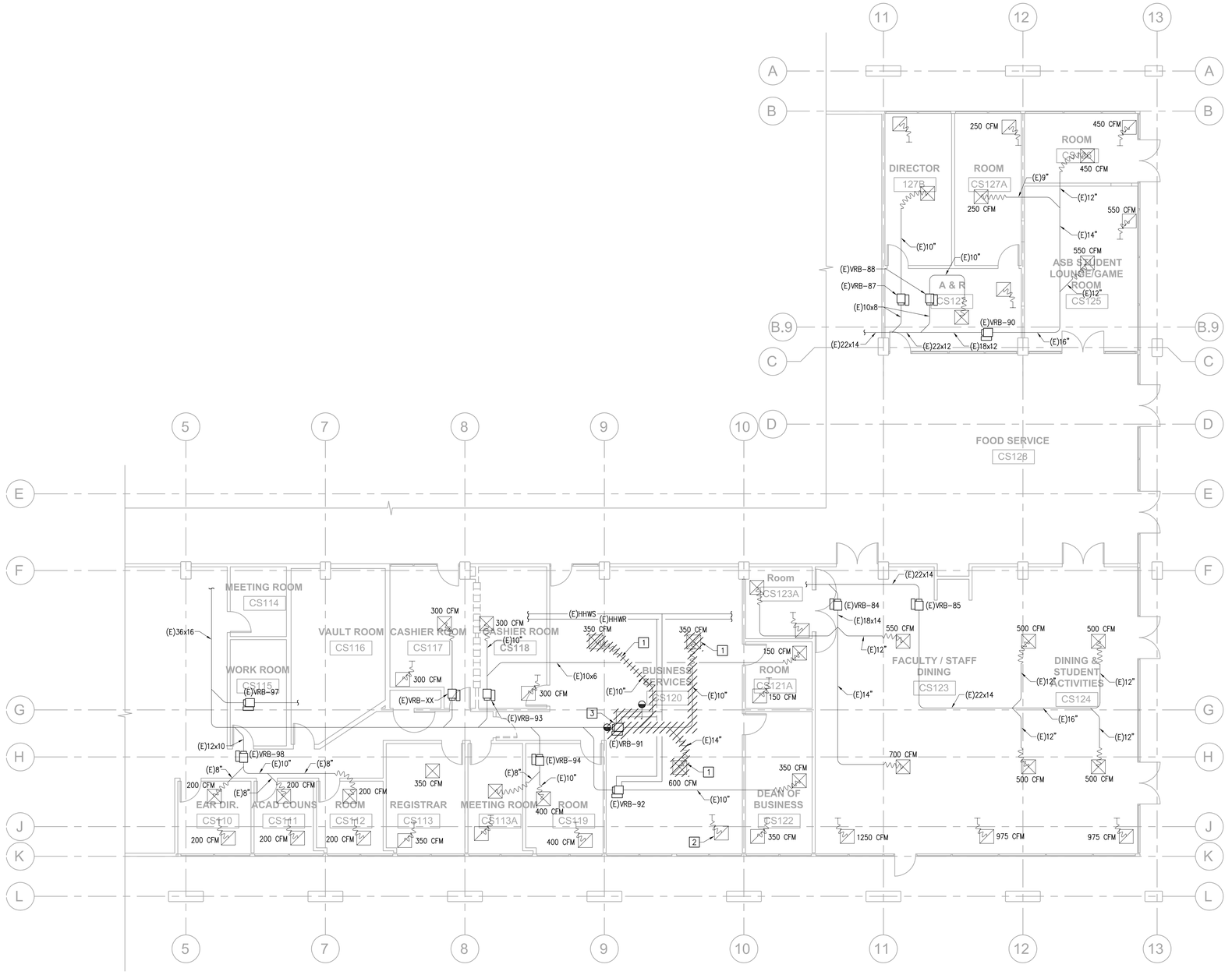
KEY NOTES

1. DISCONNECT AND REMOVE EXISTING DUCTWORK AND DIFFUSER/GRILLE SHOWN CROSSHATCHED.
2. RELOCATE EXISTING RETURN GRILLE AND ASSOCIATED DUCTWORK. REFER TO NEW WORK PLAN M201 FOR NEW LOCATION.
3. DISCONNECT AND REMOVE EXISTING VAV BOX, REHEAT COIL AND HHWS&R PIPING TO POINT OF DISCONNECT SHOWN. CAP EXISTING HHWS&R PIPING.



MECHANICAL DEMOLITION FLOOR PLAN

1/8" = 1'-0"

1

REVIEWED BY	DATE
DISTRICT ARCHITECT	DATE
ASSISTANT DISTRICT ARCHITECT	DATE
OTHER	DATE
OTHER	DATE
OTHER	DATE
OTHER	DSA

CONSULTANT

LICENSED PROFESSIONAL ENGINEER SCOTT H. JOHNSON No. M 32413 MECHANICAL STATE OF CALIFORNIA

ARCHITECT/CONSULTANT

LICENSED ARCHITECT LEWIS BAKER RAC 18627 06/30/21 STATE OF CALIFORNIA

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MECHANICAL DEMOLITION
FLOOR PLAN

COLLEGE SERVICES BUILDING

PALO VERDE COMMUNITY
COLLEGE DISTRICT
West Sixth Avenue, Blythe, CA 92225

PROJECT NO.	
20-040	A.P.
20016 Palo Verde College	
DATE	DRAWN MH
8/10/2020	CHECKED MR
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	M101
	OF 18- 38 SHEETS

J&R Engineering & Consulting, Inc.
16769 Bernardo Center Drive, Suite 1 #768
San Diego, CA 92128

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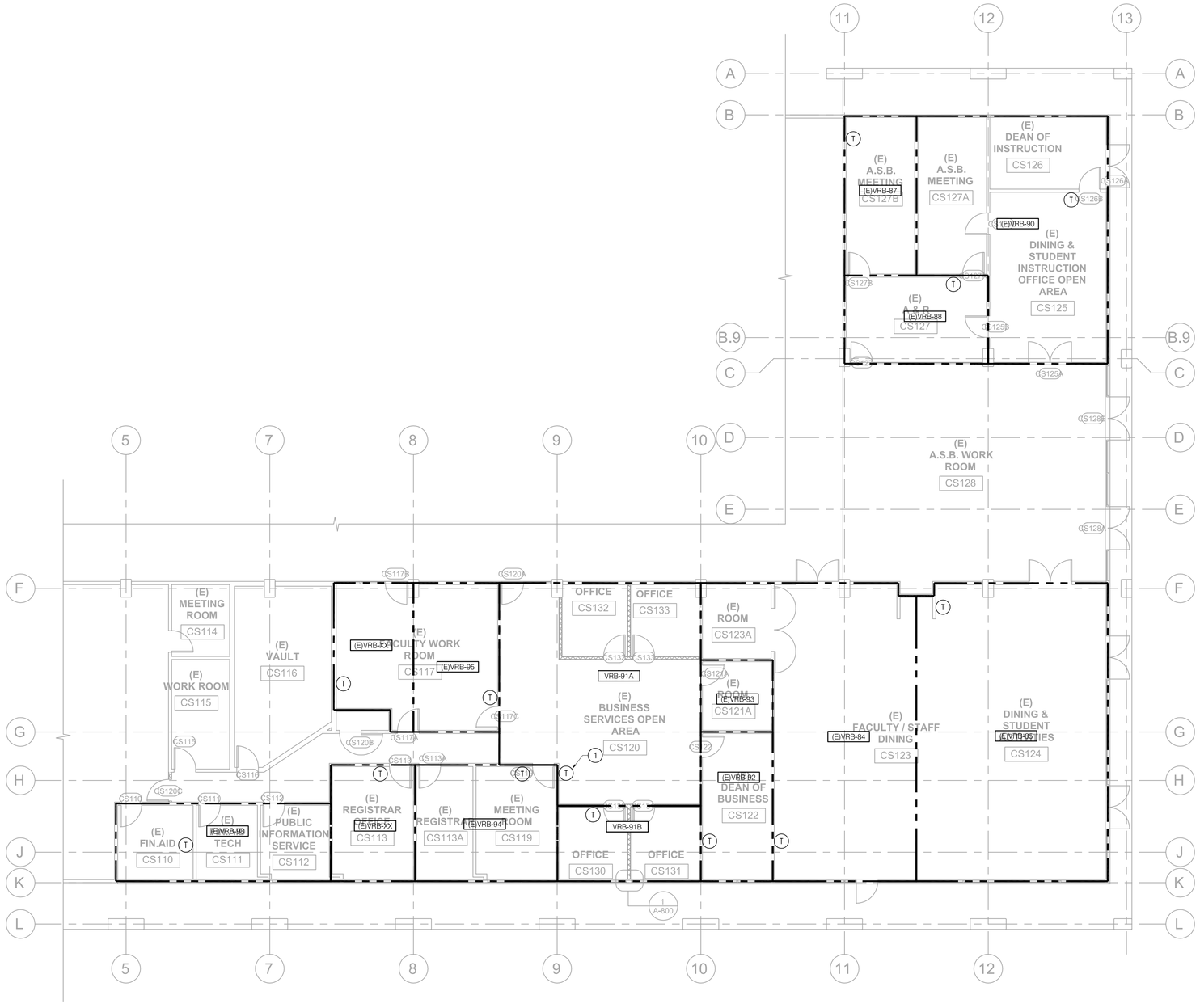
KEY NOTES

1. RELOCATE EXISTING THERMOSTAT TO LOCATION AS SHOWN. CONTRACTOR SHALL EXTEND WIRING AS NECESSARY.



MECHANICAL ZONING PLAN

1/8" = 1'-0"

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ASSISTANT DISTRICT ARCHITECT	DATE
OTHER	DATE
OTHER	DATE
OTHER	DATE
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REGISTERED PROFESSIONAL ENGINEER SCOTT H. JOHNSON MECHANICAL No. M 32413 STATE OF CALIFORNIA — CONSULTANT

LICENSED ARCHITECT LEWIS BAKER RCE 18627 06/30/21 STATE OF CALIFORNIA — ARCHITECT/CONSULTANT

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MECHANICAL ZONING PLAN

COLLEGE SERVICES BUILDING

PALO VERDE COMMUNITY COLLEGE DISTRICT
West Sixth Avenue, Blythe, CA 92225

PROJECT NO.	20-040 A.P.
	20016 Palo Verde College
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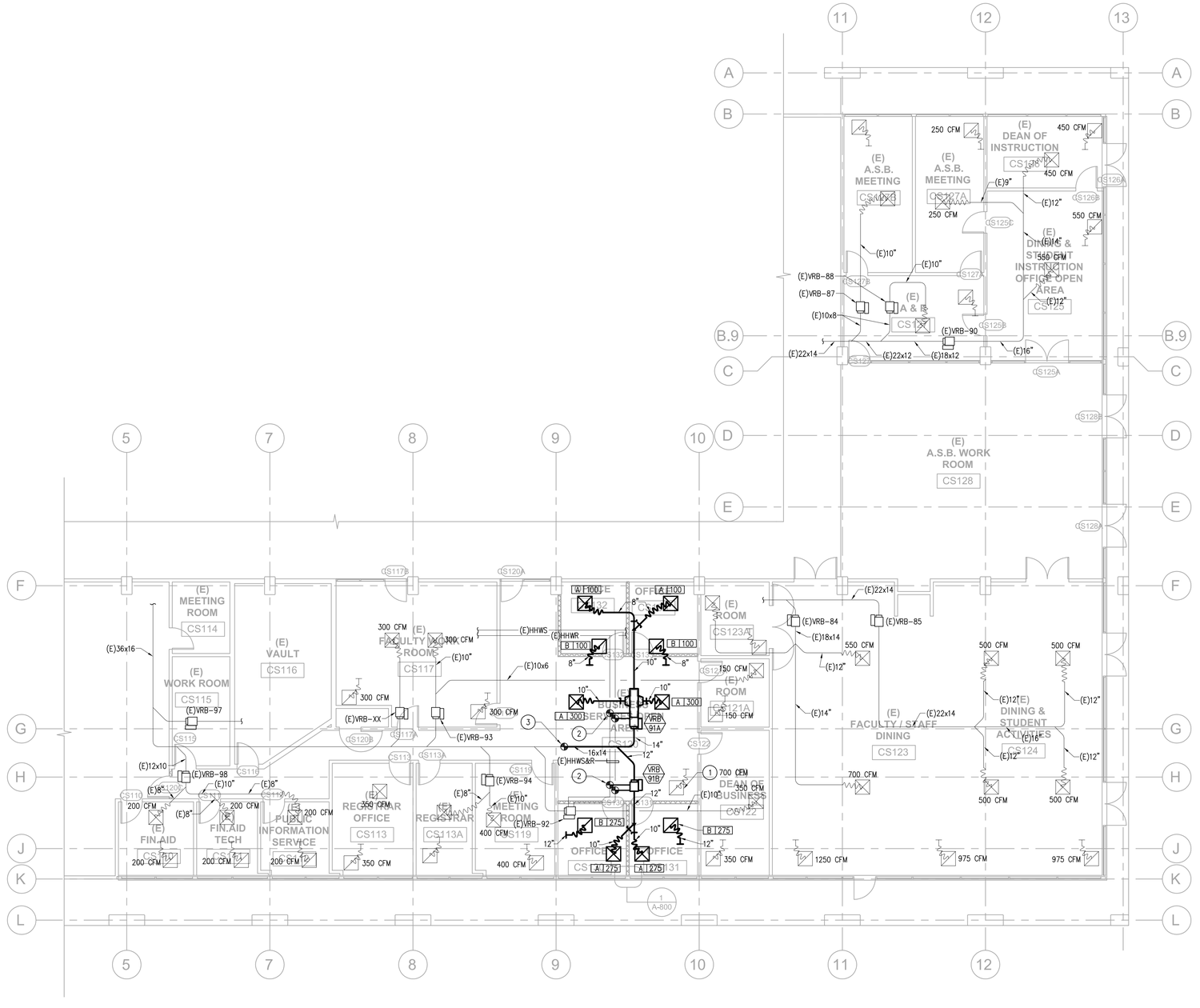
KEY NOTES

1. RELOCATED RETURN GRILLE AND DUCTWORK. DUCTWORK TO TERMINATE IN CEILING PLENUM. CONTRACTOR SHALL RE-BALANCE GRILLE TO AIRFLOW SHOWN.
2. PROVIDE NEW 3/4" HHWS&R PIPING TO HEATING COIL AND CONNECT TO EXISTING MAIN. REFER TO DETAIL 3/M301.
3. POC OF NEW 16x14 SUPPLY AIR DUCT TO EXISTING. TRANSITION TO EXISTING SUPPLY MAIN ABOVE CEILING.



MECHANICAL NEW WORK FLOOR PLAN 1

1/8" = 1'-0"

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MECHANICAL NEW WORK
FLOOR PLAN

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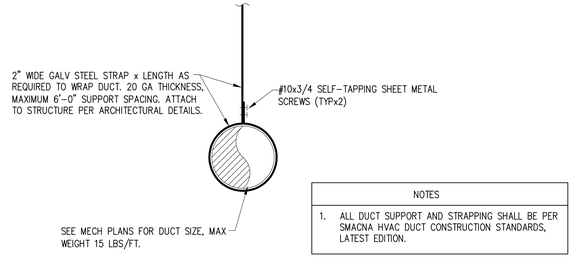


NOTES
1. ALL DUCT SUPPORT AND STRAPPING SHALL BE PER SMACNA HVAC DUCT CONSTRUCTION STANDARDS, LATEST EDITION.

DUCT SUPPORT DETAIL

SCALE: NONE (4)

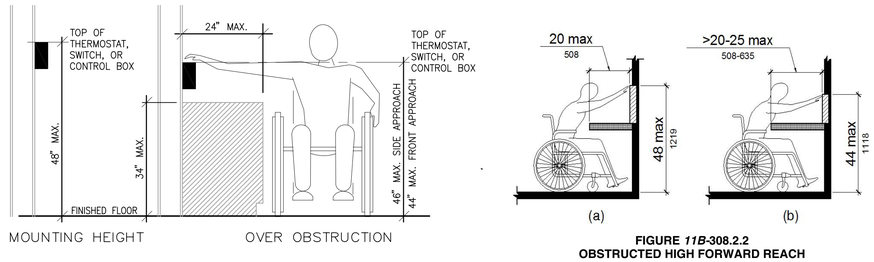
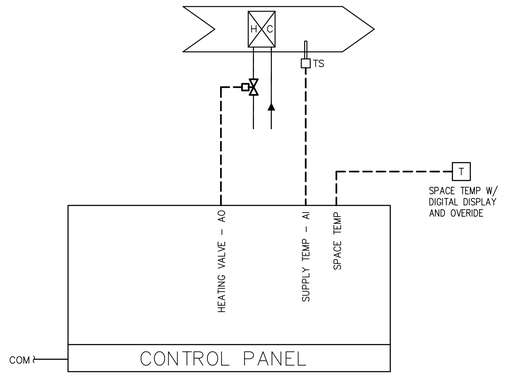


FIGURE *11B*-308.2.2
OBSTRUCTED HIGH FORWARD REACH

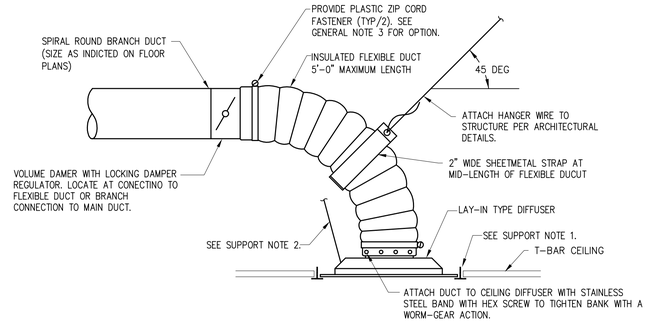
THERMOSTAT MOUNTING DETAIL

SCALE: NONE (1)



REHEAT COIL CONTROLS DIAGRAM

SCALE: NONE (5)

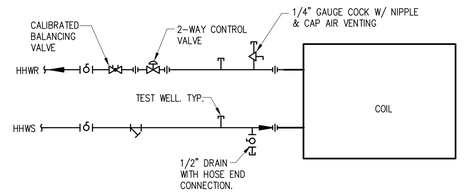


GENERAL NOTES:
1. ROUND NECK CEILING DIFFUSER SHOWN. PROVIDE SQUARE TO ROUND TRANSITION (8" MIN. HEIGHT) FOR SQUARE NECK DIFFUSERS.
2. FOR HARD CEILINGS PROVIDE SURFACE MOUNTED TYPE CEILING DIFFUSERS.
3. WHERE FACTORY INSTALLED SHEET METAL FITTING ENDS ARE PROVIDED, ATTACH TO BRANCH DUCT WITH SHEET METAL SCREWS AND DUCT SEALER.

SUPPORT NOTES:
1. PROVIDE CEILING GRID CLIP AT TWO OPPOSITE SIDES OF GRILLE ATTACHED TO GRILLE WITH SHEETMETAL SCREWS.
2. FOR DIFFUSERS WEIGHING MORE THAN 20 LBS BUT NOT MORE THAN 56 LBS, PROVIDE TWO ADDITIONAL #12 GAGE WIRE HANGERS CONNECTED FROM THE DIFFUSER TO THE STRUCTURE ABOVE. WIRE MAY BE SLACK.

CEILING DIFFUSER (BRANCH DUCT TAKE-OFF)

SCALE: NONE (2)



REHEAT COIL PIPING

SCALE: NONE (3)

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MECHANICAL DETAILS

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ELECTRICAL LEGEND

GENERAL

1 / E0.1	DETAIL NUMBER DESIGNATION SHEET DETAIL APPEARS (ILLUSTRATED ON)
1	NOTE REFERENCE
xxx / xxx	SHEET DETAIL APPEARS (ILLUSTRATED ON) DETAIL NUMBER DESIGNATION

POWER

+48"	INDICATES MOUNTING HEIGHT ABOVE FINISHED FLOOR
PH OR Ø	PHASE
J	JUNCTION OF OUTLET BOX CEILING OR WALL MOUNTED AS INDICATED. LOCATE ABOVE ACCESSIBLE CEILING UON.
	DUPLEX RECEPTACLE, FLUSH MOUNTED, THE BOTTOM OF THE OUTLET SHALL BE INSTALLED NOT LESS THAN 15" AFF UNLESS NOTED OTHERWISE.
	QUADRUPLEX RECEPTACLE, FLUSH MOUNTED, THE BOTTOM OF THE OUTLET SHALL BE INSTALLED NOT LESS THAN 15" AFF UNLESS NOTED OTHERWISE.
	QUADRUPLEX TELECOMMUNICATION AND POWER OUTLETS IN FLUSH MOUNTED FLOOR BOX. PROVIDE CABLING AS SPECIFIED.
	POWER TRANSFORMER
	GROUND
3P / 100AS / 60AF	SWITCH AND FUSE DESIGNATION NUMBER OF POLES SWITCH SIZE FUSE SIZE
3P / 225AF / 225AT	CIRCUIT BREAKER NUMBER OF POLES AMPS FRAME AMPS TRIP KAIC RATING

RACEWAYS

	CONDUIT TERMINATED AND CAPPED
	WIRING OR CONDUIT CONCEALED IN WALL OR CEILING
	WIRING OR CONDUIT EXPOSED
	WIRING OR CONDUIT CONCEALED UNDERGROUND, OR IN FLOORS ABOVE GRADE LEVEL.
	FLEXIBLE CONDUIT CONDUIT
1ELA-1,3,5	HOMERUN TO PANELBOARD. TEXT INDICATES ELECTRICAL PANEL DESIGNATION AND CIRCUIT NUMBERS. MINIMUM CONDUIT SIZE SHALL BE 3/4". UNLESS OTHERWISE NOTED, PROVIDE BRANCH CIRCUIT AND FEEDER HOMERUNS WITH NOT MORE THAN THREE PHASE CONDUCTORS, THREE NEUTRAL CONDUCTORS AND ONE GROUND CONDUCTOR IN A SINGLE RACEWAY. PROVIDE ALL BRANCH CIRCUITS WITH A SEPARATE NEUTRAL CONDUCTOR.

LIGHTING

OS a,b	WALL MOUNTED OCCUPANCY DETECTOR. LETTER SUBSCRIPT INDICATES DUAL-LEVEL SWITCHING.
3 $ a,b	RECESSED 3-WAY TOGGLE SWITCH. LETTER SUBSCRIPT INDICATES MULTIPLE SWITCHES IN GANGED BOX W/ COMMON COVER PLATE.
S	CEILING MOUNTED TWO-WAY OCCUPANCY DETECTOR

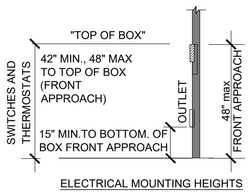
DEMOLITION

X X $ X	SYMBOL INDICATES FIXTURE, DEVICE, OUTLET OR EQUIPMENT TO BE REMOVED.
R	DASHED SYMBOL WITH "R" INDICATES FIXTURE, DEVICE, OUTLET OR EQUIPMENT TO BE RELOCATED.
NR NR $ NR	SYMBOL WITH "NR" INDICATES NEW LOCATION OR RELOCATED FIXTURE, DEVICE, OUTLET OR EQUIPMENT.
E E $ E	SYMBOL WITH "E" OR "(E)" INDICATES EXISTING FIXTURE, DEVICE, OUTLET OR EQUIPMENT TO REMAIN.

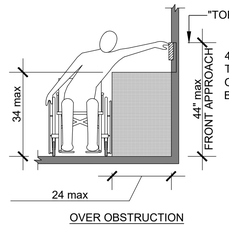
ABBREVIATIONS

A	AMPERE	LTG	LIGHTING
ADA	AMERICAN DISABILITIES ACT	LV	LOW VOLTAGE
AC	ALTERNATING CURRENT		
AF	AMP FRAME	MTD	MOUNTED
AFF	ABOVE FINISHED FLOOR	MCA	MINIMUM CIRCUIT AMPS
AIC	AMPERE INTERRUPTING CAPACITY	MOCP	MAXIMUM OVERCURRENT PROTECTION DEVICE
AL	ALUMINUM		
AS	AMP SWITCH	OC	ON CENTER
C	CONDUCTOR,		
CKT	CONDUIT CIRCUIT	NTS	NOT TO SCALE
CSFM	CALIF. STATE FIRE MARSHALL	NFPA	NATIONAL FIRE PROTECTION
CU	COPPER	NEC	NATIONAL ELECTRIC CODE
E	EXISTING	TYP	TYPICAL
ELEC	ELECTRICAL		
		UL	UNDERWRITER'S LABORATORY
FLUOR	FLUORESCENT		
GALV	GALVANIZED	V	VOLTAGE
GFI	GROUND FAULT INTERRUPTER		
GND, G	GROUND	W	WIRE
		WP	WEATHERPROOF
HP	HORSEPOWER	W/	WITH
KVA	KILOVOLT-AMPERE	XFMR	TRANSFORMER
KW	KILOWATT		
		PROVIDE	FURNISH, INSTALL, CONNECT AND TEST

ADA MOUNTING REQUIREMENTS



ELECTRICAL MOUNTING HEIGHTS



OVER OBSTRUCTION

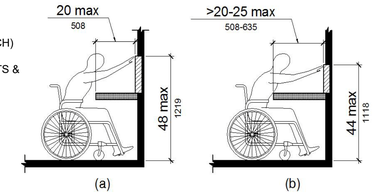


FIGURE *11B*-308.2.2
OBSTRUCTED HIGH FORWARD REACH

SHEET INDEX

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ELECTRICAL LEGEND AND GENERAL NOTES

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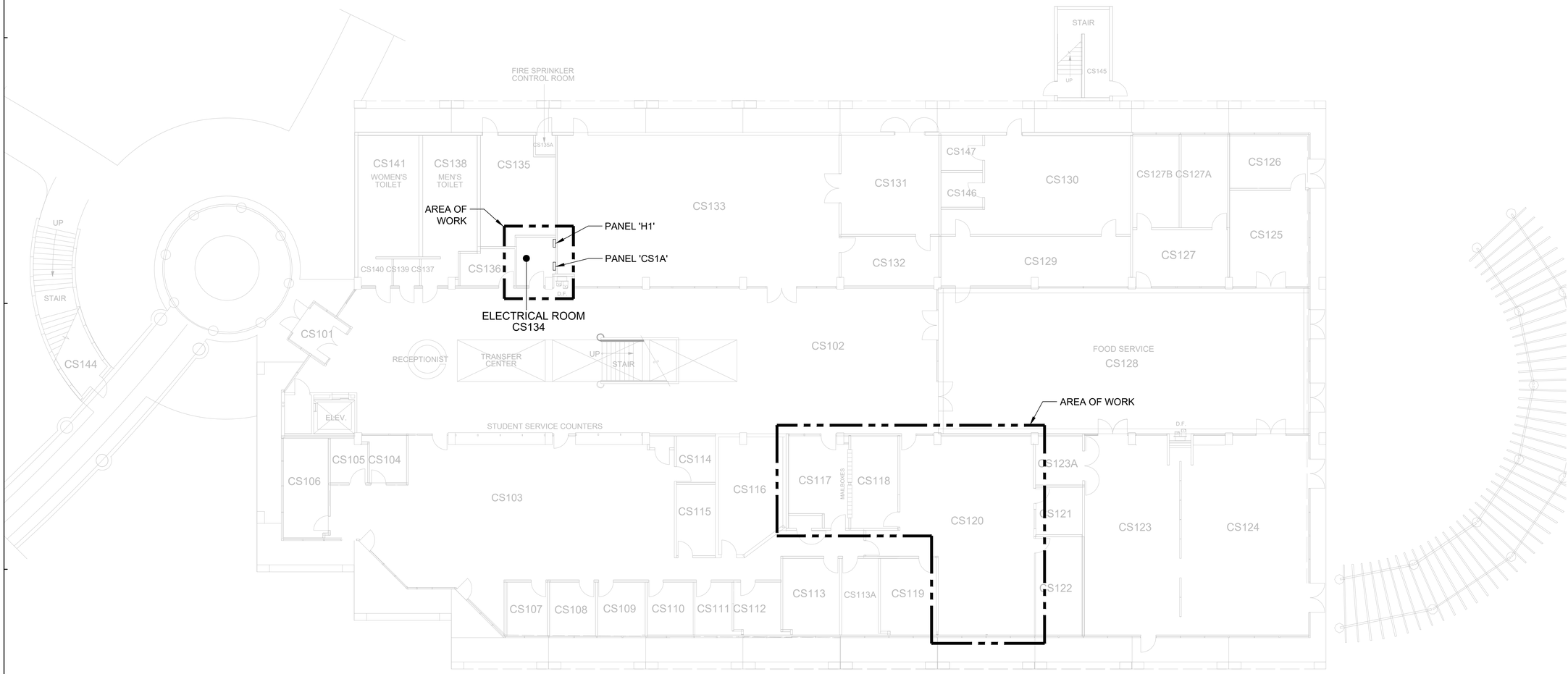
SHEET NOTES

1. SEE SHEET E200, SINGLE LINE DIAGRAM, FOR ADDITIONAL PANEL 'H1' AND 'CS1A' INFORMATION.



OVERALL SITE PLAN

SCALE: NOT TO SCALE

N

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OVERALL SITE PLAN

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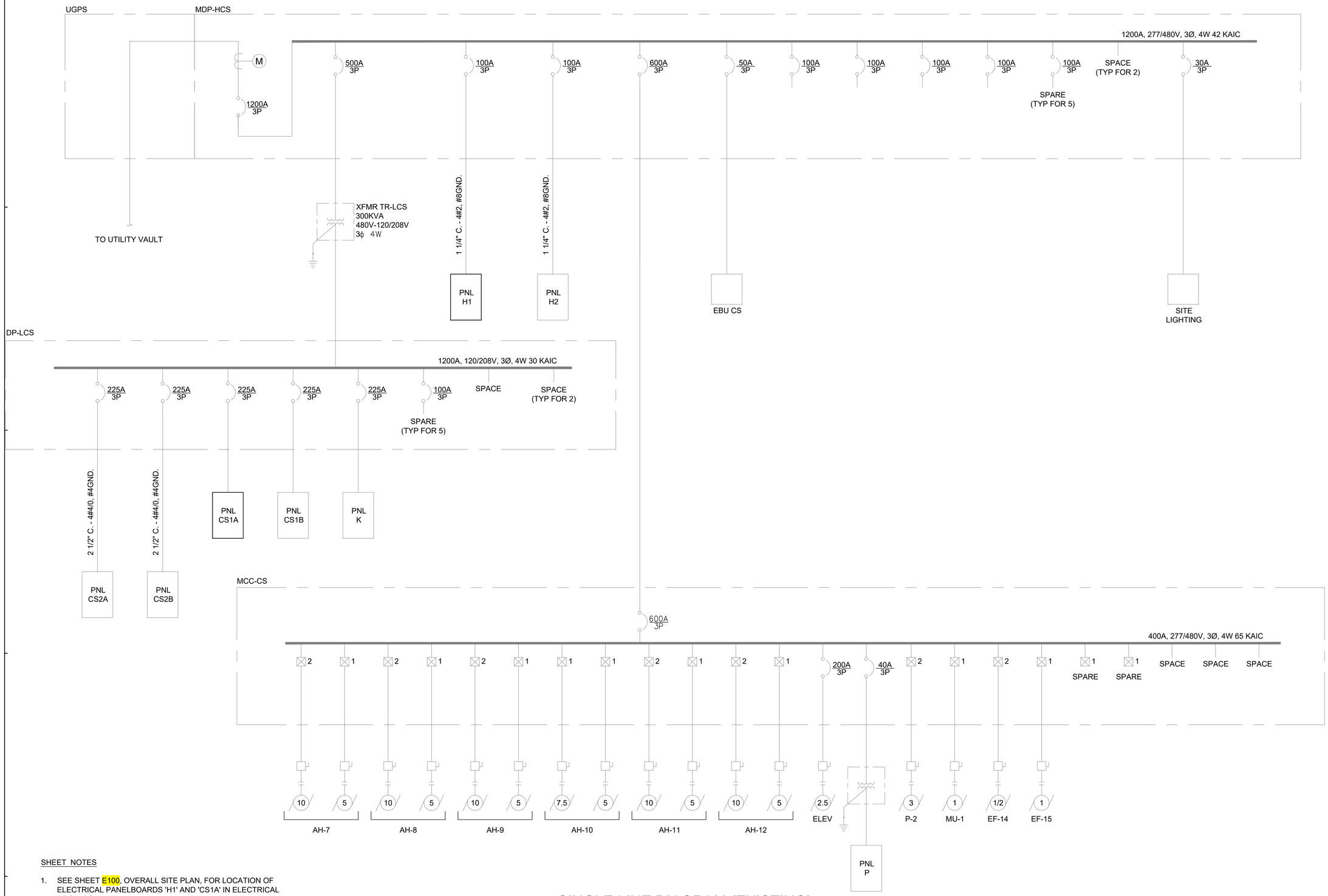

SHEET NOTES

1. SEE SHEET E100, OVERALL SITE PLAN, FOR LOCATION OF ELECTRICAL PANELBOARDS 'H1' AND 'CS1A' IN ELECTRICAL ROOM CS134.

SINGLE LINE DIAGRAM (EXISTING)

SCALE: NOT TO SCALE

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SINGLE LINE DIAGRAM

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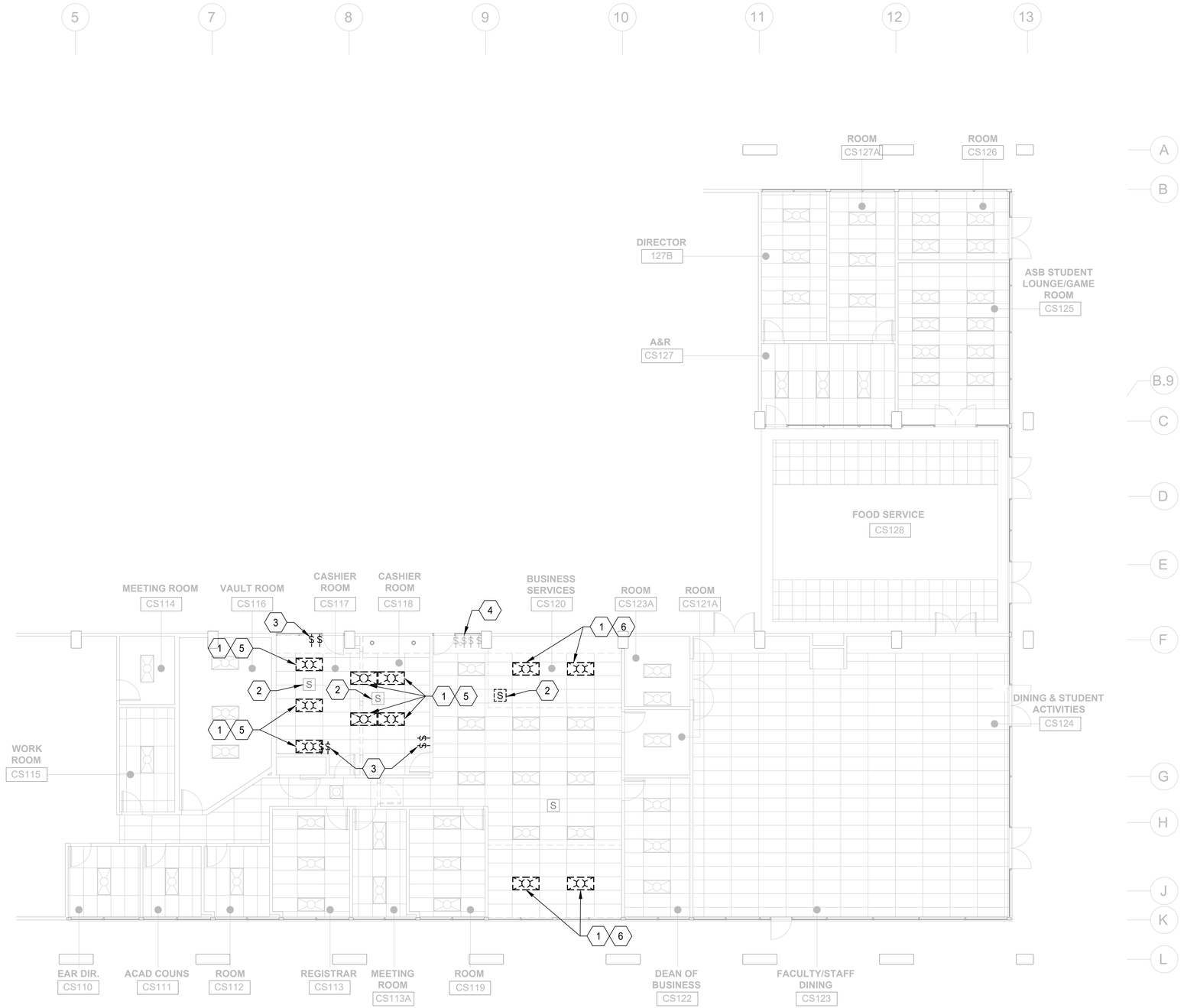

ELECTRICAL LIGHTING PLAN - DEMOLITION

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

1/8" = 1'-0" 8' 4' 0' 8' 16'

N

DEMOLITION KEYNOTES

1. REMOVE 2'X4' 3-LAMP PARABOLIC F32 T8 FLUORESCENT LIGHTING FIXTURE. RETAIN FIXTURE AND CIRCUIT FOR REINSTALLATION IN NEW CEILING.
2. REMOVE CEILING MOUNTED OCCUPANCY SENSOR. RETAIN SENSOR AND CIRCUIT FOR REINSTALLATION IN NEW CEILING.
3. REMOVE SWITCHES. CIRCUIT TO REMAIN FOR RE-USE.
4. SWITCHES TO REMAIN.
5. REMOVE FIXTURE FROM CIRCUIT 'H1'-4. SEE (E) PANEL 'H1' PRE-DEMOLITION AND DEMOLITION PANEL SCHEDULES ON SHEET E400 FOR ADDITIONAL INFORMATION.
6. REMOVE FIXTURE FROM CIRCUIT 'H1'-2. SEE (E) PANEL 'H1' PRE-DEMOLITION AND DEMOLITION PANEL SCHEDULES ON SHEET E400 FOR ADDITIONAL INFORMATION.

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ELECTRICAL LIGHTING PLAN - DEMOLITION

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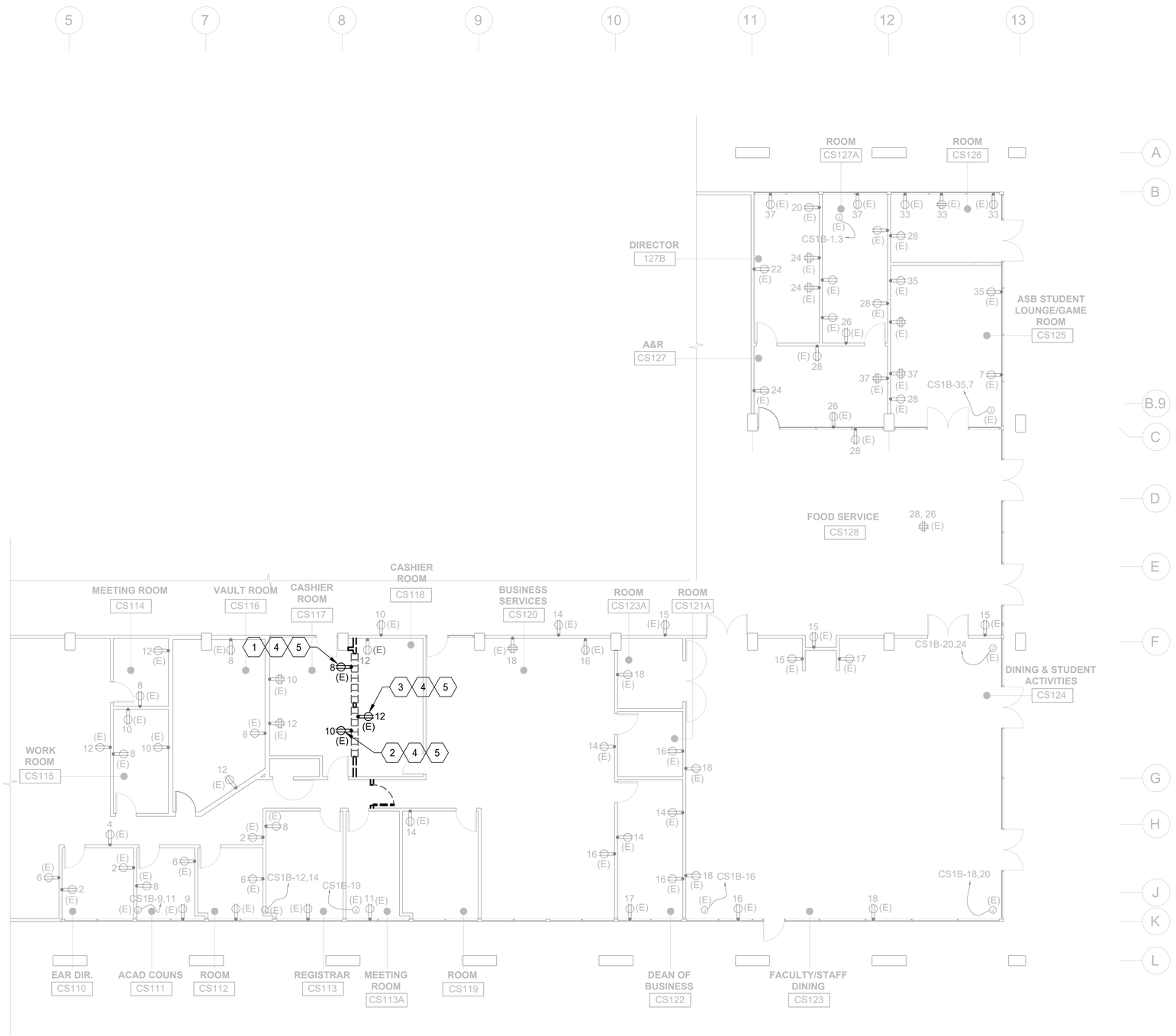

ELECTRICAL POWER PLAN - DEMOLITION

SCALE:

1/8" = 1'-0"

8' 4' 0' 8' 16'

N

DEMOLITION KEYNOTES

1. REMOVE RECEPTACLE FROM CIRCUIT 'CS1A'-8.
2. REMOVE RECEPTACLE FROM CIRCUIT 'CS1A-10'.
3. REMOVE RECEPTACLE FROM CIRCUIT 'CS1A-12'.
4. REMOVE ASSOCIATED CIRCUIT FROM WALL SLATED FOR DEMOLITION BACK TO NEAREST UNAFFECTED JUNCTION BOX. MAINTAIN CONTINUITY TO ALL DOWNSTREAM DEVICES.
5. SEE (E) PANEL 'CS1A' PRE-DEMOLITION AND DEMOLITION PANEL SCHEDULES ON SHEET E400 FOR ADDITIONAL INFORMATION.

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OF 26- 38 SHEETS

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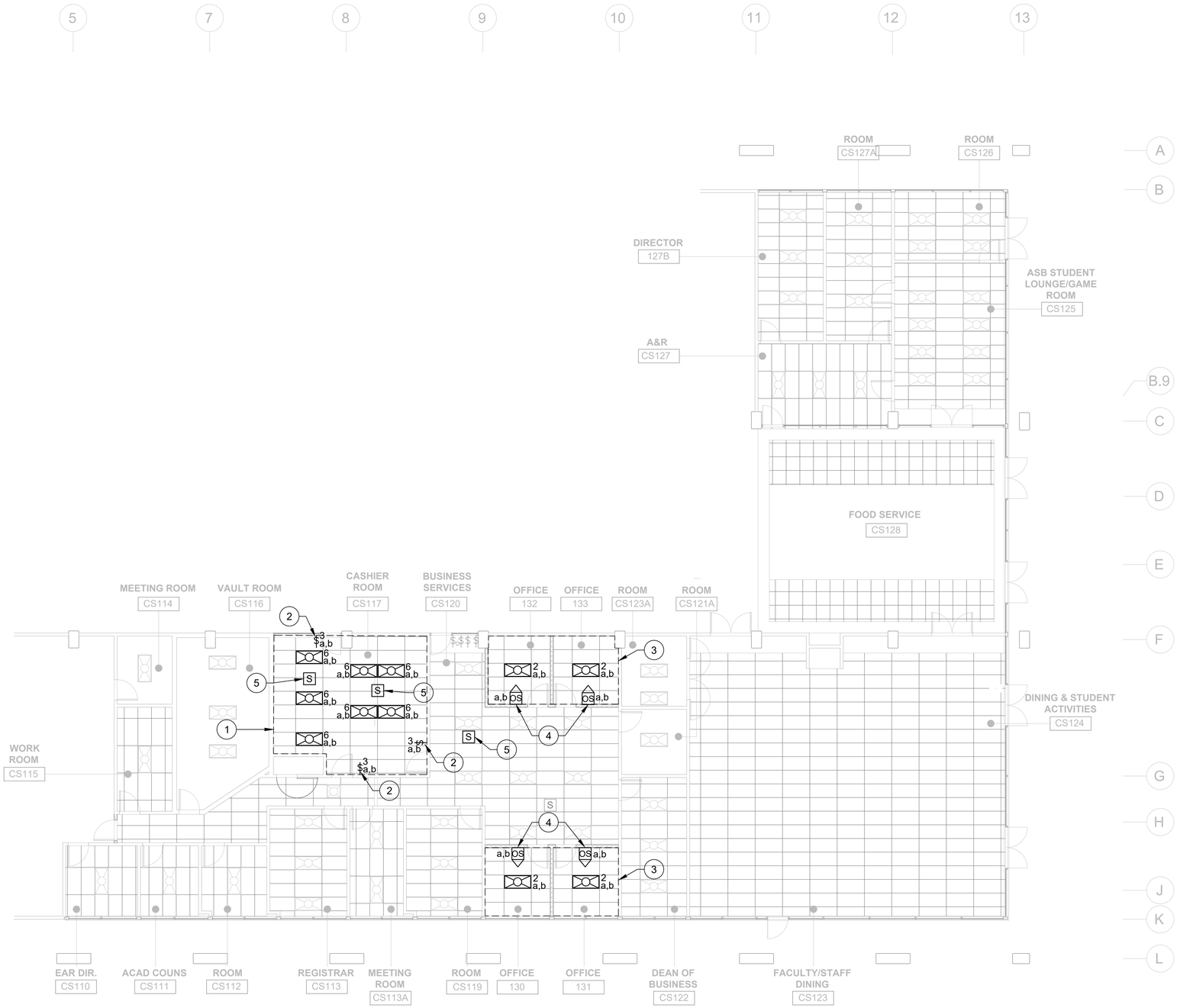

NEW WORK KEYNOTES

1. REINSTALL EXISTING 2'X4' 3-LAMP PARABOLIC F32 T8 FLUORESCENT LIGHTING FIXTURES IN NEW CEILING OF RECONFIGURED ROOM(S) AS SHOWN. RECONNECT FIXTURES TO EXISTING CIRCUIT 'H1'-4. SEE (E) PANEL 'H1' NEW WORK PANEL SCHEDULE ON SHEET E400 FOR ADDITIONAL INFORMATION. SEE DETAIL 1/E401 FOR LIGHT FIXTURE SEISMIC RESTRAINT.
2. PROVIDE NEW 3-WAY SWITCH IN EXISTING JUNCTION BOX VACATED DURING DEMOLITION WORK. RECONFIGURE EXISTING SWITCHING TO ACCOMMODATE 3-WAY A/B SWITCHING AS SHOWN.
3. REINSTALL EXISTING 2'X4' 3-LAMP PARABOLIC F32 T8 FLUORESCENT LIGHTING FIXTURES IN CEILING OF NEW OFFICES AS SHOWN. RECONNECT FIXTURES TO EXISTING CIRCUIT 'H1'-2. SEE (E) PANEL 'H1' NEW WORK PANEL SCHEDULE ON SHEET E400 FOR ADDITIONAL INFORMATION. SEE DETAIL 1/E401 FOR LIGHT FIXTURE SEISMIC RESTRAINT.
4. PROVIDE NEW WALL MOUNTED OCCUPANCY DETECTOR. PROVIDE A/B SWITCHING AS INDICATED TO CONTROL REINSTALLED FIXTURES IN NEW OFFICE.
5. REINSTALL EXISTING CEILING MOUNTED OCCUPANCY SENSOR.

ELECTRICAL LIGHTING PLAN - NEW WORK

SCALE:

1/8" = 1'-0"

8' 4' 0' 8' 16'

DSA

REVIEWED BY

DISTRICT ARCHITECT	ASSISTANT DISTRICT ARCHITECT	OTHER	OTHER	OTHER	OTHER
DATE	DATE	DATE	DATE	DATE	DATE

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THE ENGINEERING PARTNERS, INC.
CONSULTING ENGINEERS
10150 MEANLEY DRIVE, SUITE 200
SAN DIEGO, CA 92131
(858) 824-1761 FAX (858) 824-1768
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REGISTERED PROFESSIONAL ENGINEER
BENEDICK BALIST
E21213
06-30-21
STATE OF CALIFORNIA
ARCHITECT/CONSULTANT

PALO VERDE COLLEGE
WHERE KNOWLEDGE TAKES ROOT AND OPPORTUNITY GROWS

Palo Verde Community College District
1 College Drive
Blythe, CA 92225

PREPARED FOR THE
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PALO VERDE COMMUNITY COLLEGE DISTRICT
BLYTHE, CALIFORNIA

PREPARED BY
SILLMAN WRIGHT ARCHITECTS
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ELECTRICAL LIGHTING PLAN - NEW WORK

COLLEGE SERVICES BUILDING
PALO VERDE COMMUNITY COLLEGE DISTRICT
West Sixth Avenue, Blythe, CA 92225

PROJECT NO.		
20016	A.P.	
20016 Palo Verde College		
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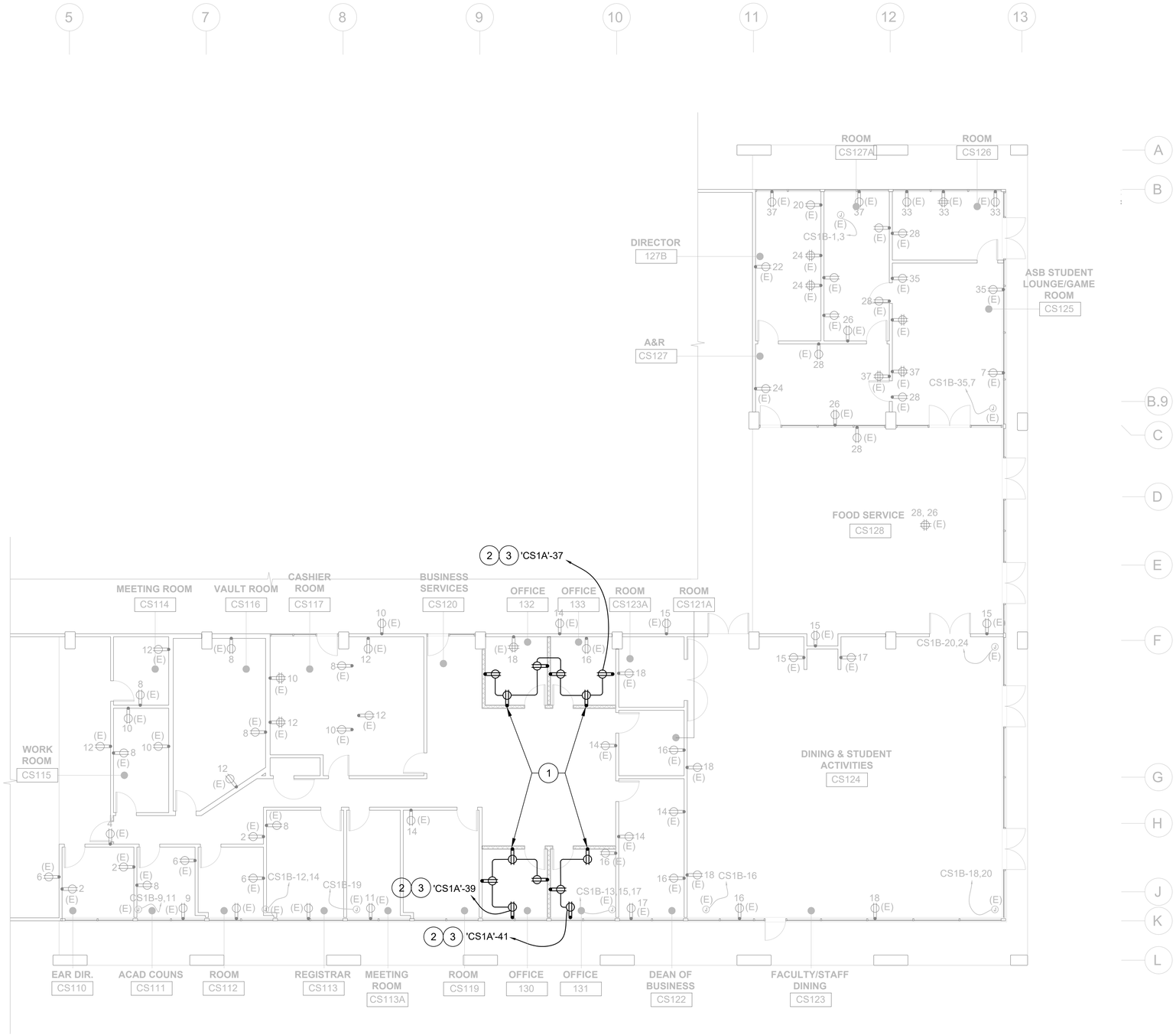

ELECTRICAL POWER PLAN - NEW WORK

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

8' 4' 0' 8' 16'

NEW WORK KEYNOTES

1. PROVIDE DUPLEX RECEPTACLE. (TYPICAL OF 3 IN OFFICES 131, 132 AND 133. TYPICAL OF 4 IN OFFICE 130.) ONE NEW RECEPTACLE IN EACH OFFICE TO BE SWITCHED PER T24. SEE DETAIL 2/E401 FOR SWITCHED RECEPTACLE LABELING.
2. PROVIDE ¾"C., 2#12, #12 GND. TO INDICATED SPARE CIRCUIT BREAKER AT PANEL 'CS1A'.
3. SEE (E) PANEL 'CS1A' (NEW WORK) PANEL SCHEDULE ON SHEET E400 FOR ADDITIONAL INFORMATION.

DSA

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DATE						

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ELECTRICAL POWER PLAN - NEW WORK

COLLEGE SERVICES BUILDING
PALO VERDE COMMUNITY COLLEGE DISTRICT
West Sixth Avenue, Blythe, CA 92225

PROJECT NO. 20016 A.P.
20016 Palo Verde College
DATE 8/10/2020
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OF 28- 38 SHEETS

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(E) PANEL 'H1' (PRE-DEMOLITION)

LOCATION: ELECTRICAL ROOM 134 | MAIN: 100A MLO | BUS: 100 AMPS | VOLTAGE: 480Y/277V, 3Ø, 4W | MOUNTING: SURFACE | MINIMUM DEVICE RATING: A.I.C. | FEED:

DESCRIPTION	LOAD (VOLT-AMPS) ØA	ØB	ØC	CKT BRKR №	TRIP	ØA	ØB	ØC	CKT BRKR TRIP	№	LOAD (VOLT-AMPS) ØA	ØB	ØC	DESCRIPTION
LIGHTING	3030			1	20	*			20	2	1816			LIGHTING
LIGHTING		2770		3	20		*		20	4		1888		LIGHTING
LIGHTING			3430	5	20			*	20	6			1888	LIGHTING
LIGHTING	3145			7	20	*			20	8				SPARE
LIGHTING		476		9	20		*		20	10				SPARE
SPARE			306	11	20			*		12				SPACE
LIGHTING STAIR STOR.				13	20	*				14				SPACE
WATER HEATER CAN WASH				15	20		*			16				SPACE
SPACE				17				*		18				SPACE
SPACE				19		*				20				SPACE
SPACE				21			*			22				SPACE
SPACE				23				*		24				SPACE
SPACE				25						26				SPACE
SPACE				27						28				SPACE
SPACE				29						30				SPACE
SPACE				31						32				SPACE
SPACE				33						34				SPACE
SPACE				35						36				SPACE
SPACE				37						38				SPACE
SPACE				39						40				SPACE
SPACE				41						42				SPACE

øA = 7991 | øB = 5134 | øC = 5624

CONNECTED VA =	18.75 KVA
+ 25% LCL =	4.69 KVA
TOTAL CONNECTED LOAD	23.44 KVA
	28 AMPS

NOTES:

(E) PANEL 'H1' (DEMOLITION)

LOCATION: ELECTRICAL ROOM 134 | MAIN: 100A MLO | BUS: 100 AMPS | VOLTAGE: 480Y/277V, 3Ø, 4W | MOUNTING: SURFACE | MINIMUM DEVICE RATING: A.I.C. | FEED:

DESCRIPTION	LOAD (VOLT-AMPS) ØA	ØB	ØC	CKT BRKR №	TRIP	ØA	ØB	ØC	CKT BRKR TRIP	№	LOAD (VOLT-AMPS) ØA	ØB	ØC	DESCRIPTION
LIGHTING	3030			1	20	*			20	2	**1432**			**LIGHTING$_1$**
LIGHTING		2770		3	20		*		20	4		**1216**		**LIGHTING$_1$**
LIGHTING			3430	5	20			*	20	6			1888	LIGHTING
LIGHTING	3145			7	20	*			20	8				SPARE
LIGHTING		476		9	20		*		20	10				SPARE
SPARE			306	11	20			*		12				SPACE
LIGHTING STAIR STOR.				13	20	*				14				SPACE
WATER HEATER CAN WASH				15	20		*			16				SPACE
SPACE				17				*		18				SPACE
SPACE				19		*				20				SPACE
SPACE				21			*			22				SPACE
SPACE				23				*		24				SPACE
SPACE				25						26				SPACE
SPACE				27						28				SPACE
SPACE				29						30				SPACE
SPACE				31						32				SPACE
SPACE				33						34				SPACE
SPACE				35						36				SPACE
SPACE				37						38				SPACE
SPACE				39						40				SPACE
SPACE				41						42				SPACE

øA = 7607 | øB = 4462 | øC = 5624

CONNECTED VA =	17.69 KVA
+ 25% LCL =	4.42 KVA
TOTAL CONNECTED LOAD	22.12 KVA
	27 AMPS

NOTES:
1. **REMOVED LIGHTING FIXTURES.**

(E) PANEL 'H1' (NEW WORK)

LOCATION: ELECTRICAL ROOM 134 | MAIN: 100A MLO | BUS: 100 AMPS | VOLTAGE: 480Y/277V, 3Ø, 4W | MOUNTING: SURFACE | MINIMUM DEVICE RATING: A.I.C. | FEED:

DESCRIPTION	LOAD (VOLT-AMPS) ØA	ØB	ØC	CKT BRKR №	TRIP	ØA	ØB	ØC	CKT BRKR TRIP	№	LOAD (VOLT-AMPS) ØA	ØB	ØC	DESCRIPTION
LIGHTING	3030			1	20	*			20	2	**1815**			**LIGHTING$_1$**
LIGHTING		2770		3	20		*		20	4		**1888**		**LIGHTING$_1$**
LIGHTING			3430	5	20			*	20	6			1888	LIGHTING
LIGHTING	3145			7	20	*			20	8				SPARE
LIGHTING		476		9	20		*		20	10				SPARE
SPARE			306	11	20			*		12				SPACE
LIGHTING STAIR STOR.				13	20	*				14				SPACE
WATER HEATER CAN WASH				15	20		*			16				SPACE
SPACE				17				*		18				SPACE
SPACE				19		*				20				SPACE
SPACE				21			*			22				SPACE
SPACE				23				*		24				SPACE
SPACE				25						26				SPACE
SPACE				27						28				SPACE
SPACE				29						30				SPACE
SPACE				31						32				SPACE
SPACE				33						34				SPACE
SPACE				35						36				SPACE
SPACE				37						38				SPACE
SPACE				39						40				SPACE
SPACE				41						42				SPACE

øA = 7991 | øB = 5134 | øC = 5624

CONNECTED VA =	18.75 KVA
+ 25% LCL =	4.69 KVA
TOTAL CONNECTED LOAD	23.44 KVA
	28 AMPS

NOTES:
1. **RE-INSTALLED EXISTING LIGHTING FIXTURES.**

(E) PANEL 'CS1A' (PRE-DEMOLITION)

LOCATION: ELECTRICAL ROOM 134 | MAIN: 225A MLO | BUS: 225 AMPS | VOLTAGE: 208Y/120V, 3Ø, 4W | MOUNTING: SURFACE | MINIMUM DEVICE RATING: A.I.C. | FEED:

DESCRIPTION	LOAD (VOLT-AMPS) ØA	ØB	ØC	CKT BRKR №	TRIP	ØA	ØB	ØC	CKT BRKR TRIP	№	LOAD (VOLT-AMPS) ØA	ØB	ØC	DESCRIPTION
DEANS SEC., STUDENT	1260			1	20	*			20	2	1260			OFFICE DIR.
DEANS SEC., STUDENT		1260		3	20		*		20	4		1260		OFFICE DIR.
DEANS SEC., STUDENT			1260	5	20			*	20	6			1260	OFFICE DIR.
DEANS SEC., STUDENT	1080			7	20	*			20	8	1260			CASHIER, VAULT, WORK
DEANS SEC., STUDENT		1080		9	20		*		20	10		1260		CASHIER, VAULT, WORK
DEANS SEC., STUDENT			720	11	20			*	20	12			1260	CASHIER, VAULT, WORK
DEANS SEC., STUDENT	720			13	20	*			20	14	1260			BUSINESS SERVICE
STAFF DINING		900		15	20		*		20	16		1260		BUSINESS SERVICE
STAFF DINING			900	17	20			*	20	18			1260	BUSINESS SERVICE
TELECOM., BOOKSTORE	1260			19	20	*			20	20	1260			KITCHEN OFFICE
TELECOM., BOOKSTORE		1260		21	20		*		20	22		1260		KITCHEN OFFICE
TELECOM., BOOKSTORE			1260	23	20			*	20	24			1260	KITCHEN OFFICE
FACP	500			25	20	*			20	26	720			STUDENT LOUNGE
FDSD		500		27	20		*		20	28		720		STUDENT LOUNGE
RM 127			500	29	20			*	20	30			500	ELEV. CONT. CAB LIGHT
VAV	500			31	20	*			225	32				TELECOM
SPARE		800		33	20		*		-	34				TELECOM
FACP BELL				35	20			*	3P	36				UPS
SPARE				37	20	*			20	38				FC-4
SPARE				39	20		*		2P	40				
SPARE				41	20			*	20	42				SPARE

øA = 11080 | øB = 11560 | øC = 10180

CONNECTED VA =	32.82 KVA
+ 25% LCL =	KVA
TOTAL CONNECTED LOAD	32.82 KVA
	91 AMPS

NOTES:

(E) PANEL 'CS1A' (DEMOLITION)

LOCATION: ELECTRICAL ROOM 134 | MAIN: 225A MLO | BUS: 225 AMPS | VOLTAGE: 208Y/120V, 3Ø, 4W | MOUNTING: SURFACE | MINIMUM DEVICE RATING: A.I.C. | FEED:

DESCRIPTION	LOAD (VOLT-AMPS) ØA	ØB	ØC	CKT BRKR №	TRIP	ØA	ØB	ØC	CKT BRKR TRIP	№	LOAD (VOLT-AMPS) ØA	ØB	ØC	DESCRIPTION
DEANS SEC., STUDENT	1260			1	20	*			20	2	1260			OFFICE DIR.
DEANS SEC., STUDENT		1260		3	20		*		20	4		1260		OFFICE DIR.
DEANS SEC., STUDENT			1260	5	20			*	20	6			1260	OFFICE DIR.
DEANS SEC., STUDENT	1080			7	20	*			20	8	**1080**			**CASHIER, VAULT, WORK RECEPT.$_1$**
DEANS SEC., STUDENT		1080		9	20		*		20	10		**1080**		**CASHIER, VAULT, WORK RECEPT.$_1$**
DEANS SEC., STUDENT			720	11	20			*	20	12			**1080**	**CASHIER, VAULT, WORK RECEPT.$_1$**
DEANS SEC., STUDENT	720			13	20	*			20	14	1260			BUSINESS SERVICE
STAFF DINING		900		15	20		*		20	16		1260		BUSINESS SERVICE
STAFF DINING			900	17	20			*	20	18			1260	BUSINESS SERVICE
TELECOM., BOOKSTORE	1260			19	20	*			20	20	1260			KITCHEN OFFICE
TELECOM., BOOKSTORE		1260		21	20		*		20	22		1260		KITCHEN OFFICE
TELECOM., BOOKSTORE			1260	23	20			*	20	24			1260	KITCHEN OFFICE
FACP	500			25	20	*			20	26	720			STUDENT LOUNGE
FDSD		500		27	20		*		20	28		720		STUDENT LOUNGE
RM 127			500	29	20			*	20	30			500	ELEV. CONT. CAB LIGHT
VAV	500			31	20	*			225	32				TELECOM
SPARE		800		33	20		*		-	34				TELECOM
FACP BELL				35	20			*	3P	36				UPS
SPARE				37	20	*			20	38				FC-4
SPARE				39	20		*		2P	40				
SPARE				41	20			*	20	42				SPARE

øA = 10900 | øB = 11380 | øC = 10000

CONNECTED VA =	32.28 KVA
+ 25% LCL =	KVA
TOTAL CONNECTED LOAD	32.28 KVA
	90 AMPS

NOTES:
1. **REMOVE RECEPTACLE FROM CASHIER ROOM.**

(E) PANEL 'CS1A' (NEW WORK)

LOCATION: ELECTRICAL ROOM 134 | MAIN: 225A MLO | BUS: 225 AMPS | VOLTAGE: 208Y/120V, 3Ø, 4W | MOUNTING: SURFACE | MINIMUM DEVICE RATING: A.I.C. | FEED:

DESCRIPTION	LOAD (VOLT-AMPS) ØA	ØB	ØC	CKT BRKR №	TRIP	ØA	ØB	ØC	CKT BRKR TRIP	№	LOAD (VOLT-AMPS) ØA	ØB	ØC	DESCRIPTION
DEANS SEC., STUDENT	1260			1	20	*			20	2	1260			OFFICE DIR.
DEANS SEC., STUDENT		1260		3	20		*		20	4		1260		OFFICE DIR.
DEANS SEC., STUDENT			1260	5	20			*	20	6			1260	OFFICE DIR.
DEANS SEC., STUDENT	1080			7	20	*			20	8	1080			CASHIER, VAULT, WORK
DEANS SEC., STUDENT		1080		9	20		*		20	10		1080		CASHIER, VAULT, WORK
DEANS SEC., STUDENT			720	11	20			*	20	12			1080	CASHIER, VAULT, WORK
DEANS SEC., STUDENT	720			13	20	*			20	14	1260			BUSINESS SERVICE
STAFF DINING		900		15	20		*		20	16		1260		BUSINESS SERVICE
STAFF DINING			900	17	20			*	20	18			1260	BUSINESS SERVICE
TELECOM., BOOKSTORE	1260			19	20	*			20	20	1260			KITCHEN OFFICE
TELECOM., BOOKSTORE		1260		21	20		*		20	22		1260		KITCHEN OFFICE
TELECOM., BOOKSTORE			1260	23	20			*	20	24			1260	KITCHEN OFFICE
FACP	500			25	20	*			20	26	720			STUDENT LOUNGE
FDSD		500		27	20		*		20	28		720		STUDENT LOUNGE
RM 127			500	29	20			*	20	30			500	ELEV. CONT. CAB LIGHT
VAV	500			31	20	*			225	32				TELECOM
SPARE		800		33	20		*		-	34				TELECOM
FACP BELL				35	20			*	3P	36				UPS
(N) RECEPTS OFFICES 132, 133	**1080**			37	20	*			20	38				FC-4
(N) RECEPTS OFFICE 130		**720**		39	20		*		2P	40				
(N) RECEPTS OFFICE 131			**540**	41	20			*	20	42				SPARE

øA = 11980 | øB = 12100 | øC = 10540

CONNECTED VA =	34.62 KVA
+ 25% LCL =	KVA
TOTAL CONNECTED LOAD	34.62 KVA
	96 AMPS

NOTES:

PANEL SCHEDULES

SCALE: NOT TO SCALE

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OTHER		OTHER	

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PANEL SCHEDULES AND CALCULATIONS

COLLEGE SERVICES BUILDING
PALO VERDE COMMUNITY COLLEGE DISTRICT
West Sixth Avenue, Blythe, CA 92225

PROJECT NO. 20016 | A.P.
20016 Palo Verde College
DATE 8/10/2020 | DRAWN MH | CHECKED BK
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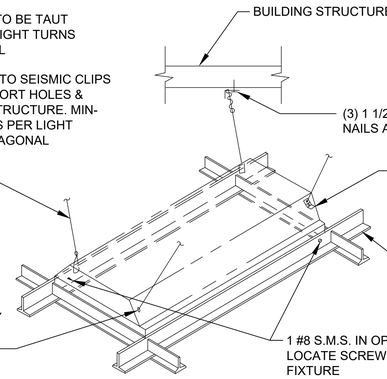
SHEET NO. E400
OF 29- 38 SHEETS

NOTE: ALL WIRES ARE TO BE TAUT WITH A MINIMUM OF 3 TIGHT TURNS AROUND SELF - TYPICAL

#12 SAFETY WIRE TIED TO SEISMIC CLIPS OR SAFETY WIRE SUPPORT HOLES & FASTENED TO BLDG. STRUCTURE. MINIMUM (2) SAFETY WIRES PER LIGHT FIXTURE PLACED AT DIAGONAL CORNERS

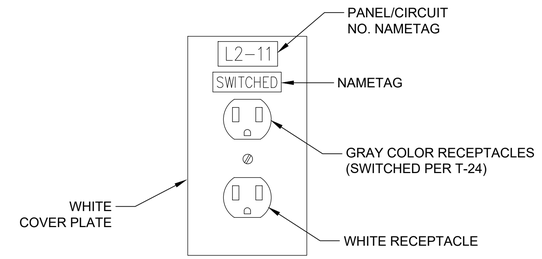
*MAX. WEIGHT OF FIXTURE = 56 LBS.



NOTE:
SLACK SUSPENSION WIRES MAY BE ATTACHED TO (E) FACTORY INSTALLED EYELETS IF PRESENT AT CORNERS OF LIGHT FIXTURES.

1 LIGHT FIXTURE SEISMIC RESTRAINT DETAIL

SCALE: NONE



2 TYPICAL DUPLEX RECEPTACLE (SWITCHED PER T-24)

SCALE: NONE

ELECTRICAL DETAILS

SCALE: NOT TO SCALE

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DATE		
DATE	DISTRICT ARCHITECT	
DATE	ASSISTANT DISTRICT ARCHITECT	
DATE	OTHER	
DATE	OTHER	
DATE	OTHER	

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ELECTRICAL DETAILS

COLLEGE SERVICES BUILDING
PALO VERDE COMMUNITY COLLEGE DISTRICT
West Sixth Avenue, Blythe, CA 92225

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20016	
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PALO VERDE COMMUNITY COLLEGE
COLLEGE SERVICES BUILDING TENANT IMPROVEMENT
FIRE SPRINKLER SYSTEMS

DSA BUILDING SYSTEM GENERAL NOTES

1. 2016 NFPA 13, 8.16.4.1.1: THE DESIGNER SHALL INDICATE ON THE PLANS ALL PIPING SUBJECT TO FREEZING (WHERE WATER TEMPERATURE CAN NOT BE MAINTAINED ABOUT 40 DEGREES FAHRENHEIT) AND PROVIDE APPROVED PROTECTION.
2. 2016 NFPA 13, 10.10.2.1.1: UNDERGROUND MAINS AND LEAD-IN CONNECTIONS TO SYSTEM RISERS SHALL BE COMPLETELY FLUSHED BEFORE CONNECTION IS MADE TO OVERHEAD SPRINKLER PIPING. WHERE UNDERGROUND PIPING IS FLUSHED AND NOT IMMEDIATELY CONNECTED TO OVERHEAD PIPING, THE RISER SHALL BE CAPPED OR OTHERWISE PROTECTED TO PREVENT DEBRIS, DIRT, OR ANIMALS FROM ENTERING INTO THE UNDERGROUND PIPING (WITNESSED BY THE PROJECT INSPECTOR) .
3. CERTIFIED OR WET-SIGNED WATER FLOW TEST DATA SHALL BE NO MORE THAN 12 MONTHS OLD AT THE TIME OF SUBMITTAL AND INDICATE THE LOCATIONS AND HEIGHT ELEVATIONS OF THE TEST AND RESIDUAL FLOW HYDRANTS. WATER FLOW TEST DATA MUCH BE PROVIDED BY OR WITNESSED BY THE LOCAL WATER PURVEYOR, UTILITIES COMPANY, OR LOCAL FIRE DEPARTMENT.
4. 2016 NFPA 13 FIGURE 10.10.1: A COPY OF COMPLETED AND SIGNED "CONTRACTOR'S MATERIALS & TEST CERTIFICATE FOR UNDERGROUND PIPING" SHALL BE INCLUDED IN THE CLOSE-OUT DOCUMENTS FOR BUILDING SYSTEM.
5. 2016 NFPA 13, 10.10.2.2.1: ALL PIPING AND ATTACHED APPURTENANCES SUBJECTED TO SYSTEM WORKING PRESSURE SHALL BE HYDROSTATICALLY TESTED AT 200 PSI, OR 50 PSI IN EXCESS OF THE SYSTEM WORKING PRESSURE, WHICHEVER IS GREATER, AND SHALL MAINTAIN THAT PRESSURE WITHOUT LOSS FOR 2 HOURS. (WITNESSED BY PROJECT INSPECTOR) .
6. 2016 NFPA 13, 6.2.9.1: PROVIDE SUPPLY OF SPARE SPRINKLERS IN A PROTECTIVE CABINET, INCLUDING SPRINKLER WRENCH FOR EACH TYPE INSTALLED. SUPPLY SHALL BE NO FEWER THAN 6 SPARE SPRINKLERS MATCHING THE TYPES AND TEMPERATURES RATING IN EACH PROTECTED AREA FOR SYSTEMS LESS THAN 300 SPRINKLERS. (12 SPARE SPRINKLER HEADS FOR SYSTEMS 300 TO 1000 SPRINKLERS.)
7. 2016 NFPA 13, 9.3.6.1: FURNISH RESTRAINT OF BRANCH LINES. THE END SPRINKLER ON EACH LINE SHALL BE RESTRAINED AGAINST EXCESSIVE VERTICAL AND LATERAL MOVEMENT (9.3.6.3) . BRANCH LINES SHALL BE LATERALLY RESTRAINED AT INTERVALS NOT EXCEEDING THOSE SPECIFIED IN Table 9.3.6.4 (a) and (b) (9.3.6.4) .
8. 2019 CBC 903.4.2 AND NFPA 13 8.17.4.2.3: THE INSPECTORS TEST VALVE LOCATION SHALL BE ACCESSIBLE. THE PIPE SHALL BE NO LESS THAN 1 INCH, WITH A SMOOTH BORE, CORROSION- RESISTANT ORIFICE, PROVIDING THE EQUIVALENT FLOW OR THE SMALLEST ORIFICE OF THE SPRINKLER TYPES INSTALLED WITHIN THE SYSTEM. THE DISCHARGE SHALL BE TO A DRAIN CONNECTION OR AN APPROVED LOCATION AT THE EXTERIOR OF THE BUILDING.
9. THE SPRINKLER FLOW SWITCH SHALL BE TESTED TO CONFIRM THAT WHEN THE INSPECTOR'S TEST VALVE IS ACTIVATED AN ALARM WILL SOUND NO MORE THAN 90 SECONDS AFTER INITIAL FLOW (WITNESSED BY THE PROJECT INSPECTOR)
10. 2019 CBC 904.4.2: CONNECTIONS TO PROTECTED PREMISES AND SUPERVISING STATION FIRE ALARM SYSTEMS SHALL BE TESTED TO VERIFY PROPER IDENTIFICATION AND TRANSMISSION OF ALARMS FROM AUTOMATIC FIRE EXTINGUISHING SYSTEMS (WITNESSED BY PROJECT INSPECTOR)
11. 2016 NFPA 13 SEC 25.6.1.1: SIGNAGE SHALL BE PROVIDED AS REQUIRED, INCLUDING RISER ROOM IDENTIFICATION.
12. 2019 CBC SEC 903.4.1: THE MAIN FIRE ALARM PANEL VALVE MONITORING AND WATER FLOW ALARM AND TROUBLE SIGNALS SHALL BE DISTINCTLY DIFFERENT AND SHALL BE AUTOMATICALLY TRANSMITTED TO AN APPROVED CENTRAL STATION MONITORING COMPANY.
13. 2016 NFPA 13 SEC 25.5.1: A PERMANENT HYDRAULIC CALCULATIONS DESIGN DATA PLACARD SHALL BE ATTACHED TO EACH RISER.
14. 2016 NFPA 13 SEC 6.9.1.AND 2016 CBC 903.4.2: FLOW SWITCH SHALL BE CONNECTED TO A 10 INCH OUTSIDE ALARM BELL OR OTHER AUDIBLE ALARM DEVICE AT EACH RISER. APPROVED IDENTIFICATION SIGNS SHALL BE PROVIDED ON THE OUTSIDE ALARM BELL , SPRINKLER FIRE ALARM- WHEN ALARM SOUNDS CALL 911/ FIRE DEPARTMENT.
15. TITLE 19 ARTICLE 906 (A) : A LABEL OF THE SELF-ADHESIVE TYPE SHALL BE PLACED ON THE FIRE DEPARTMENT CONNECTION OR ON THE RISER FOR FIRE SPRINKLER SYSTEM AND SHALL INCLUDE THE DATA OF INSTALLATION AND/ OR DATE SERVICE WAS PERFORMED AND LICENSE NUMBER OF PERSON PERFORMING SERVICE WORK.
16. 2016 NFPA 13 FIGURE 25.1: INSTALLING CONTRACTOR SHALL COMPLETE AND SIGN CONTRACTOR'S MATERIAL & TEST CERTIFICATE FOR THE ABOVEGROUND PIPING. THIS FORM SHALL BE GIVEN TO THE PROJECT INSPECTOR WHO WILL FORWARD TO DSA FOR FILING IN PROJECT RECORDS.

COORDINATION NOTES

1. THE FIRE SPRINKLER SYSTEM SUBMITTAL SHALL INCLUDE WORKING PLANS IN ACCORDANCE WITH NFPA13 SECTION 23.1 AND DSA AUTOMATIC FIRE SPRINKLER SYSTEMS PROJECT SUBMITTAL GUIDELINES. DEVIATION FROM APPROVED PLANS SHALL REQUIRE PERMISSION OF THE AUTHORITY HAVING JURISDICTION PER NFPA 13, 23.1.2.
2. CONFIGURATION OF PIPING AND SPRINKLERS SHOWN ON THESE PLANS SHALL BE USED AS A BASIS FOR LAYOUT AND INSTALLATION. OFFSETS OR CHANGES IN ELEVATION SHALL BE UNDERTAKEN BY THE INSTALLING CONTRACTOR AS REQUIRED TO EFFECT COORDINATION WITH OTHER TRADES AND/OR MAINTAIN PROPER CLEARANCES. ALL SUCH REVISIONS SHALL BE SHOWN ON CONTRACTOR'S WORKING PLANS.
3. ALL DIMENSIONS SHOWN ON THESE PLANS ARE CENTERLINE-TO-CENTERLINE. INSTALLING CONTRACTOR SHALL INSPECT AND CONFIRM THE ACTUAL AS-BUILT CONDITIONS OF ALL WORK AREAS AND SHALL COORDINATE THE INSTALLATION OF FIXED FIRE PROTECTION SYSTEMS WITH ALL WORK BY OTHER TRADES.

A. THE EXACT LOCATION AND ELEVATION OF INSTALLED PIPING AND THE CUT LENGTHS OF ALL PIPING AND HANGERS SHALL BE THE RESPONSIBILITY OF THE INSTALLING CONTRACTOR.

B. INSTALLING CONTRACTOR SHALL COORDINATE THE INSTALLATION WITH OBSTRUCTIONS SUCH AS STRUCTURE, DUCTWORK, CABLE TRAYS AND OTHER SUCH BUILDING UTILITY SYSTEMS AND WORK BY OTHER TRADES.

C. WHERE FIELD CONFLICTS REQUIRE THAT PIPING BE REVISED, SUCH CHANGES SHALL BE INCLUDED IN CONTRACTOR'S WORKING PLANS AND SUBMITTED TO ARCHITECT FOR REVIEW, TO ASSURE CONFORMANCE TO APPROVED DESIGN.

D. CONTRACTOR SHALL NOT SUBMIT COPIES OF APPROVED CONSTRUCTION DOCUMENTS PRIOR TO COORDINATION OR IN LIEU OF COORDINATED WORKING PLANS.

4. WHERE PENDENT SPRINKLERS ARE SHOWN IN OR NEAR THE EXACT CENTER OF SUSPENDED CEILING TILES, CONTRACTOR SHALL BE CONFIRM THE ACTUAL TILE PATTERN AND SPRINKLER LOCATIONS, SO THAT THE FINAL INSTALLATION IS EXACTLY CENTERED. WHERE CEILING TILES ARE 2'X4' "SECOND LOOK" TYPE WITH 2'X2' MODULES, SPRINKLERS SHALL BE SHALL BE IN THE EXACT CENTER OF THE 2'X2' MODULE. WHERE CEILING TILES ARE CONVENTIONAL 2'X4', SPRINKLERS SHALL BE CENTERED IN THE 2' DIRECTION AND SHALL BE LOCATED AT LEAST 6" CLEAR FROM ANY T-BAR.
5. CONTRACTOR SHALL FURNISH AND COORDINATE CONNECTION POINTS BETWEEN FIRE SPRINKLER SYSTEM SIGNALING DEVICES AND THE FIRE DETECTION AND ALARM SYSTEM. THIS SHALL INCLUDE BUT IS NOT LIMITED TO THE LOCATION OF ALL BELLS AND HORNS, FLOW SWITCHES AND TAMPER SWITCHES REQUIRING CONNECTION TO THE FIRE ALARM AND SUPERVISORY SYSTEMS.
6. CONTRACTOR SHALL UNDERTAKE MEETINGS AND CORRESPONDENCE WITH AUTHORITIES HAVING JURISDICTION, AS REQUIRED TO CONFIRM SPECIFIC REQUIREMENTS REGARDING LOCATIONS AND METHODS OF DISCHARGING WATER FROM TEST AND DRAIN LOCATIONS. WHERE SHOWN ON PLANS, ALL WASTEWATER SHALL DISCHARGE INTO DEDICATED RECEPTORS AND BE COORDINATED WITH THE PLUMBING AND SEWER DESIGNS.

GENERAL CODE DATA

GOVERNING CODES:
BUILDING CODE: CALIFORNIA BUILDING CODE, 2019 ED.
FIRE CODE: CALIFORNIA FIRE CODE, 2019 ED

TYPE OF CONSTRUCTION: (E) IIB
NUMBER OF STORIES: 2

COLLEGE SERVICES BUILDING:

BUILDING HEIGHT: 42'-0"
OCCUPANCY CLASS: B, A-3
TOTAL PROJECT AREA: 2, 654 SQ. FT.

FIRE LEGEND

SYMBOL	ABBR	DESCRIPTION
		NEW PIPING
		EXISTING PIPING
		EXISTING PIPING TO BE REMOVED
		PIPE HANGER LOCATION
		PIPE HANGER RESTRAINT
		FLANGED CONNECTION
		"RIDGID" GRV COUPLING
		"FLEXIBLE" GRV COUPLING
		SCREWED CAP
		FIRE HYDRANT
#2(1'-2")		HANGER TYPE AND LENGTH
		SCREWED PLUG
	2-WAY	2-WAY SEISMIC BRACE
	4-WAY	4-WAY SEISMIC BRACE
	FDC	FIRE DEPT. CONN.
	TB	UNDERGROUND THRUST BLOCK
	RS	FIRE SPRINKLER RISER
		FIRE ALARM BELL
T		TAMPER SWITCH
		KEY VALVE
CL-BOD AFF		PIPING ELEVATION
1		HYDRAULIC REF. POINT
L01		BRANCH LINE NUMBER
P01		WELDED BRANCH LINE PIECE NO.
M01		WELDED MAIN PIECE NO.
		WALL PENETRATION SLEEVE
	PIV/FDC	POST INDICATING VALVE W/ FIRE DEPT CONNECTION
	BFP	BACK FLOW PREVENTOR

ABBREVIATIONS

AHJ	AUTHORITY HAVING JURISDICTION
AWWA	AMERICAN WATER WORKS ASSOCIATION
BFP	BACK FLOW PREVENTER
CBC	CALIFORNIA BUILDING CODE
CFC	CALIFORNIA FIRE CODE
CPVC	CHLORINATED POLYVINYL CHLORIDE
DSA	DIVISION OF THE STATE ARCHITECT
FDC	FIRE DEPARTMENT CONNECTION
FM	FACTORY MUTUAL
IBC	INTERNATIONAL BUILDING CODE
N.F.P.A.	NATIONAL FIRE PROTECTION ASSOCIATION
PVC	POLYVINYL CHLORIDE
PIV	POST INDICATOR VALVE
PSI	PRESSURE PER SQUARE INCH
RPDA	REDUCED PRESSURE DETECTOR ASSEMBLY
SQ. IN.	SQUARE INCHES
SQ. FT.	SQUARE FEET
UL	UNDERWRITES LABRATORY

SCOPE OF WORK

MODIFICATION OF THE SPRINKLERS SYSTEM PER NFPA 13, 2016 ED. AND THE DIVISION OF THE STATE ARCHITECT STANDARDS AT THE FIRTS FLOOR OF THE EXISTING COLLEGE SERVICES BUILDING.

PIPE TABLES

C900, CLASS 150 PVC PIPE ID

NOMINAL	ACTUAL
4"	4.23
6"	6.09
8"	7.98
10"	9.79
12"	11.65

C151, CLASS 350 DUCTILE IRON PIPE ID

NOMINAL	ACTUAL
4"	4.300
6"	6.400
8"	8.550
10"	10.580
12"	12.640

SCH. 40 PIPE ID

NOMINAL	ACTUAL
3/4"	.0824"
1"	1.049
1-1/4"	1.380
1-1/2"	1.610
2"	2.067
2-1/2"	2.469
3"	3.068
3-1/2"	3.548
4"	4.026
5"	5.047
6"	6.065
8"	7.981

SCH. 10 PIPE ID

NOMINAL	ACTUAL
1"	1.097
1-1/4"	1.442
1-1/2"	1.682
2"	2.157
2-1/2"	2.635
3"	3.260
3-1/2"	3.760
4"	4.260
5"	5.295
6"	6.357
8"	8.249
10"	10.370

VICINITY MAP

DESIGN NOTES

1. BUILDING SYSTEM PIPE TYPES (SEE PIPE TABLES)
   A. MAIN PIPING: BLACK STEEL, SCHEDULE 10
      FITTINGS: GROOVED/WELDED
   B. BRANCH PIPING: BLACK STEEL, SCHEDULE 40
      FITTINGS: THREADED CAST/MALLEABLE IRON
2. SEE SPRINKLER LEGEND ON PLANS FOR SPACING OF SPRINKLERS AND FINISHES

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ARCHITECT/CONSULTANT — LICENSED ARCHITECT, C-18627, 06/30/21, STATE OF CALIFORNIA

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GENERAL NOTES

COLLEGE SERVICES BUILDING
PALO VERDE COMMUNITY COLLEGE DISTRICT
West Sixth Avenue, Blythe, CA 92225

PROJECT NO. 20016	A.P.
20016 Palo Verde College	
DATE 8/10/2020	DRAWN MH; CHECKED BK
REVISIONS	SHEET NO. - FP-1.0 OF 31- 38 SHEETS

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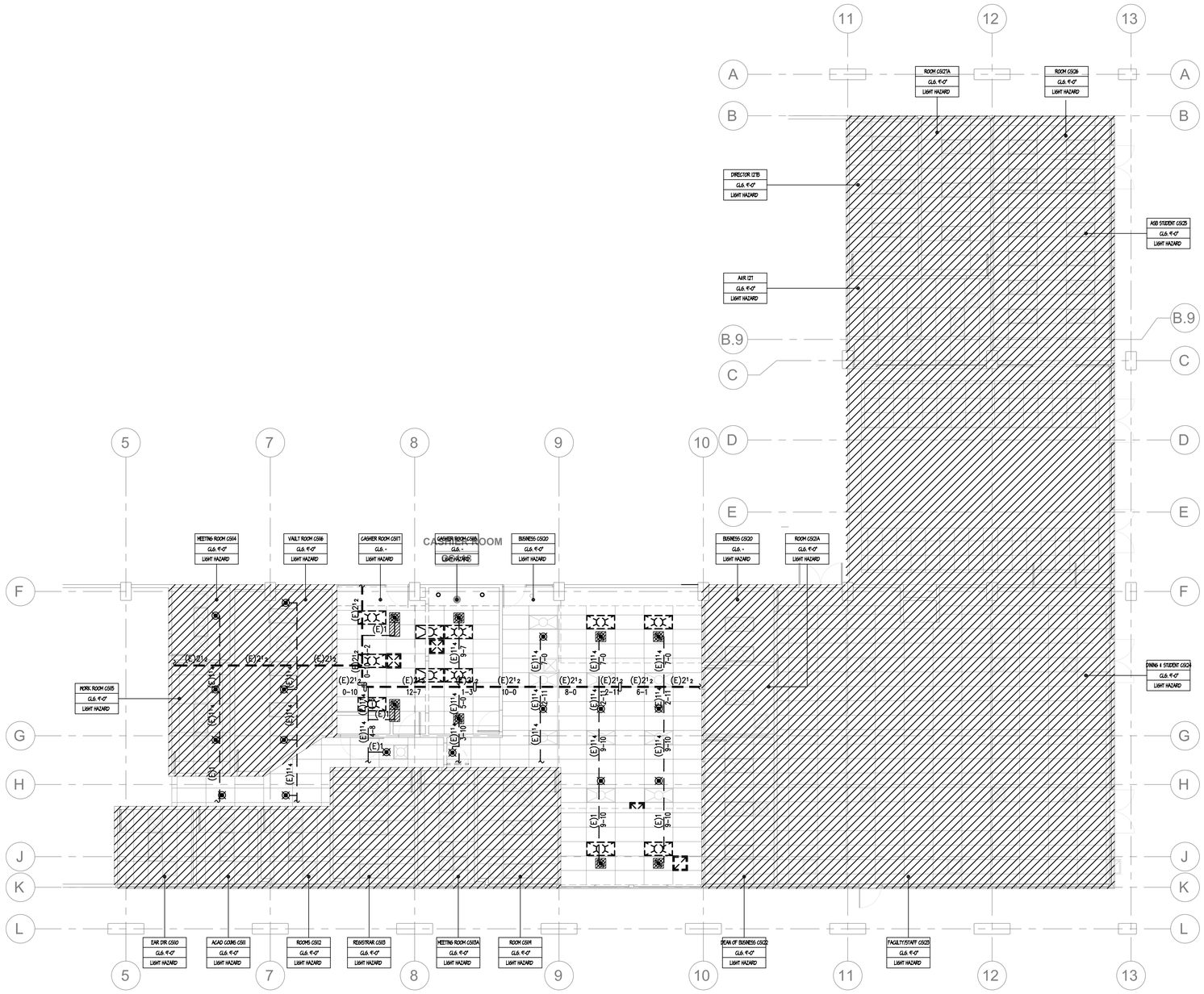

FIRST FLOOR PIPING PLAN DEMO

PLAN NORTH

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

0 2' 4' 8' 16'

LEGEND:

- EXISTING PIPING
- EXISTING PIPING TO BE DEMOLISHED
- EXISTING SPRINKLERS TO BE DEMOLISHED.

FIRE SPRINKLER LEGEND											SPACING			ESCUTCHEON		COMMENTS	TOTAL
SYM	LOCATION	MFR	MODEL	SIN	SR/QR	K-FAC	TYPE	TEMP	FIN	THRD	MIN/MAX		AREA	TYPE	FIN		
⊠	FINISHED CEILING	-	-	-	QR	5.6K	SSP	155°	WHITE	1/2"	6'-0"	15'-0"	225 S.F.	RECESSED	CHROME	EXISTING	-
																TOTAL THIS SHEET	-

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OTHER	DATE
OTHER	DATE
OTHER	DATE

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FIRST FLOOR PIPING PLAN DEMO

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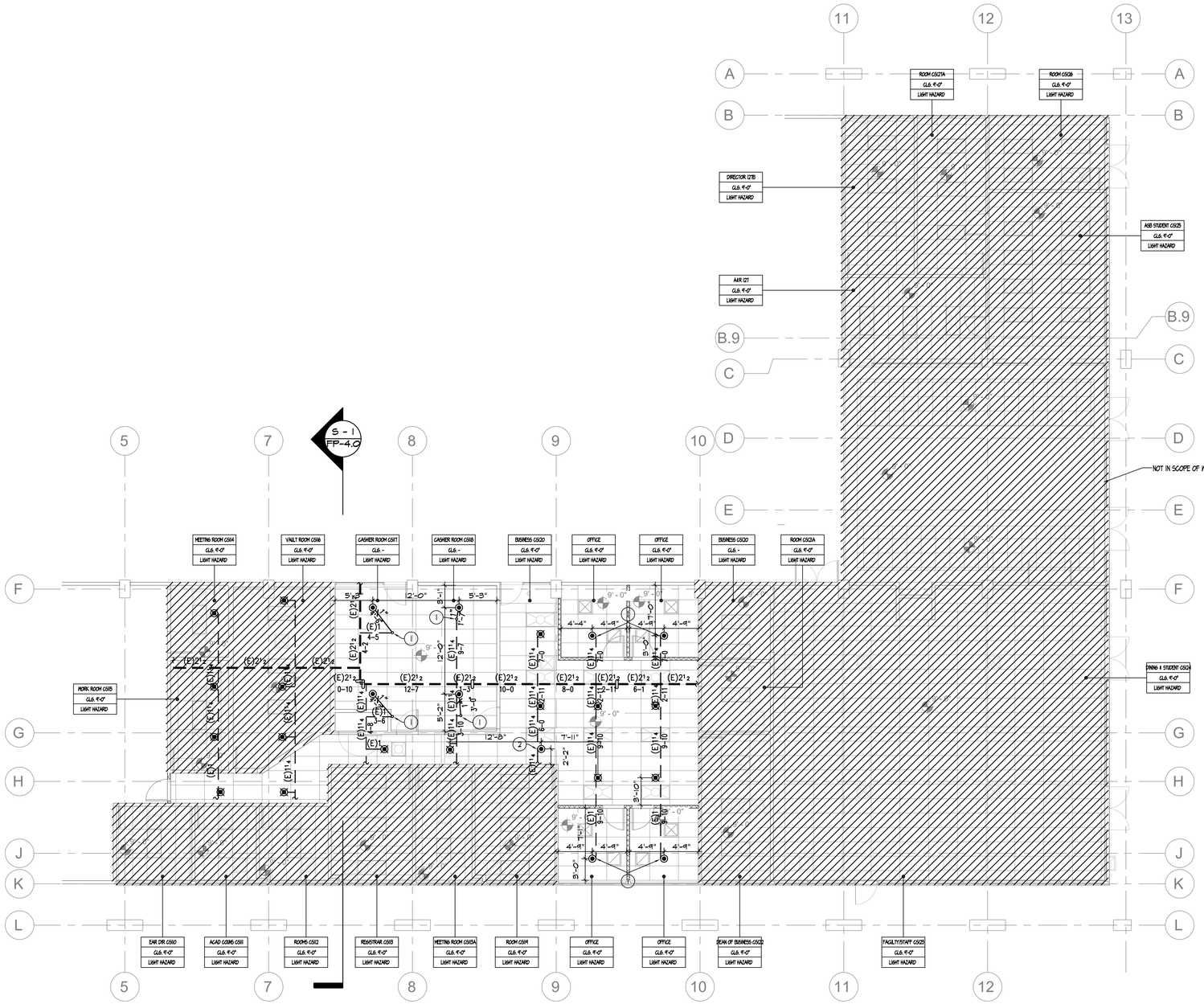

FIRST FLOOR PIPING PLAN

PLAN NORTH

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

FIRE SPRINKLER LEGEND											SPACING		ESCUTCHEON		COMMENTS	TOTAL
SYM	LOCATION	MFR	MODEL	SIN	SR/QR	K-FAC	TYPE	TEMP	FIN	THRD	MIN/MAX	AREA	TYPE	FIN		
◉	FINISHED CEILING	VIKING	MICROFAST	VK302	QR	5.6K	56P	155°	WHITE	1/2"	6'-0"	15'-0" 225 S.F.	CONCEALED	WHITE	COMMENT	9
⊠	FINISHED CEILING	-	-	-	QR	5.6K	56P	155°	WHITE	1/2"	6'-0"	15'-0" 225 S.F.	RECESSED	CHROME	EXISTING	-
															TOTAL THIS SHEET	9

INSTALLATION NOTES:

PIPE TYPES

1. LINES TO BE BLACK SCHEDULE 40 STEEL PIPE, U.O.N.

PIPE SIZES

1. BRANCHLINES TO BE 1 ¼" & 1" NOMINAL DIAMETER PIPE, U.O.N.
2. ARM-OVERS AND DROPS TO BE 1" NOMINAL DIAMETER PIPE, U.O.N.

HANGERS

1. HANG LINES & MAINS TO CONCRETE DECK AT ELEVATIONS NOTED PER DETAIL. — 6 / FP-4.0
2. HANG LINES & MAINS TO STEEL BEAMS AT ELEVATIONS NOTED PER DETAIL. — 3,4 / FP-4.0

— / — DENOTES HANGER LOCATION

FURNISH RESTRAINING TYPE HANGERS AT THE ENDS OF ALL BRANCHLINES, AND AT EVERY DISTANCE ALONG THE LINES MENTIONED IN THE RESTRAINT SPACING TABLE BELOW.

4. SEE SHEET FP-4.0 FOR DETAILS

PIPE LEGEND:

- - - EXISTING PIPING
——— NEW PIPING

SYMBOL LEGEND

① INSTALL NEW ARMOVER AT EXISTING 1" ELBOW

② INSTALL NEW 1-1/4" X 1" MECHANICAL TEE

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FIRST FLOOR PIPING PLAN

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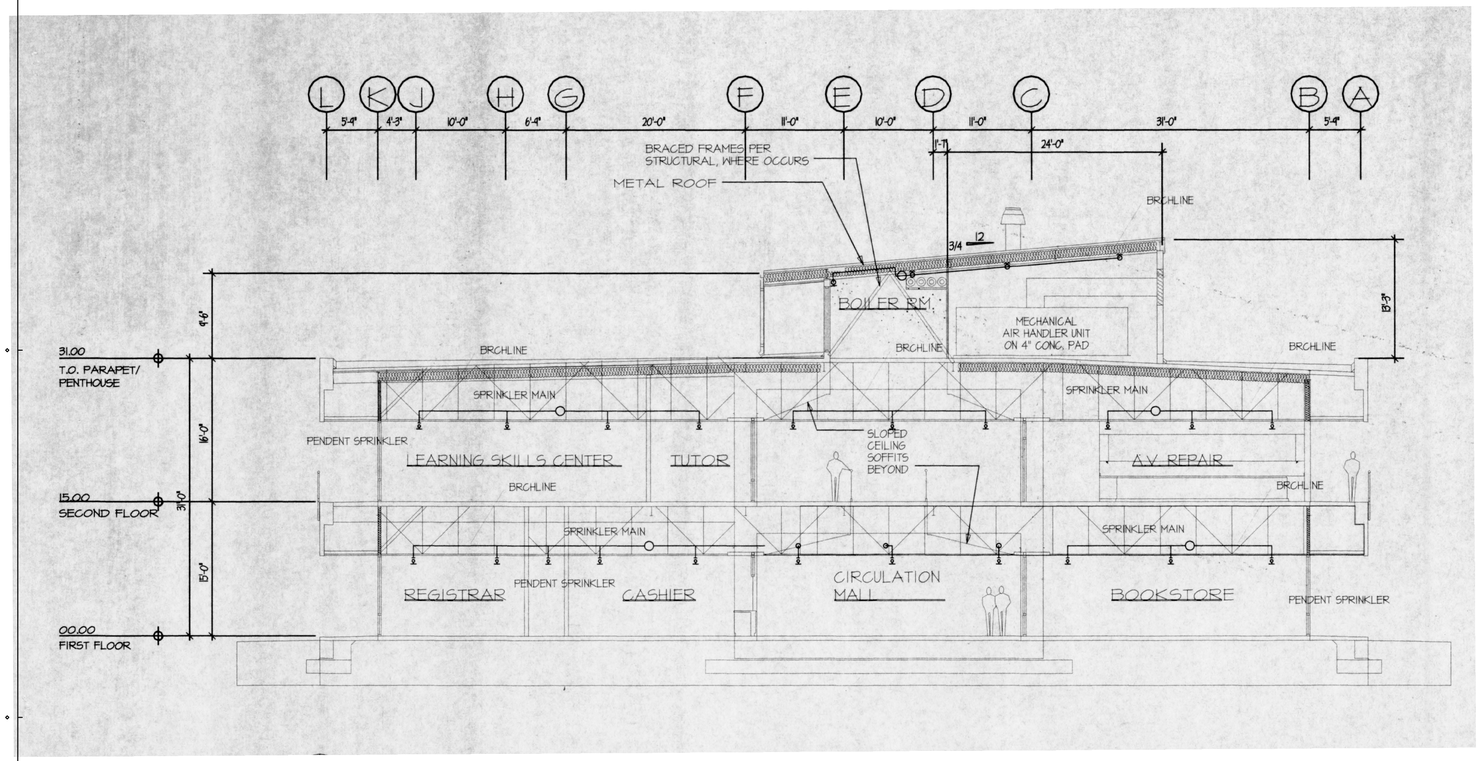
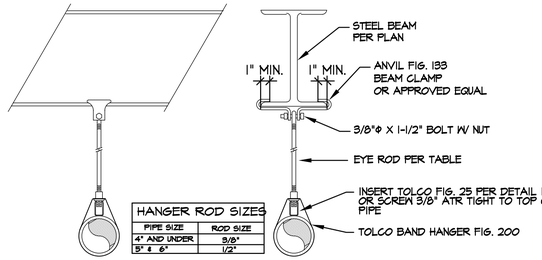


(E) BUILDING SECTION - 1

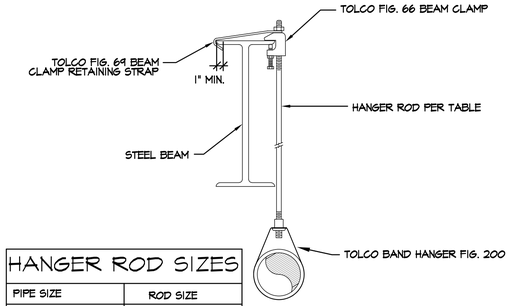
0' 2' 4' 8' 16' SCALE: 1/4" = 1'-0"



HANGER ROD SIZES	
PIPE SIZE	ROD SIZE
4" AND UNDER	3/8"
5" & 6"	1/2"

BEAM CLAMP HANGER DETAIL

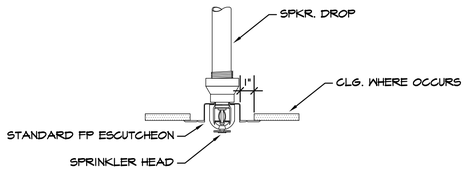
NOT TO SCALE — SHOWN ON PLAN AS 4 / FP-4.0



HANGER ROD SIZES	
PIPE SIZE	ROD SIZE
4" AND UNDER	3/8"
5", 6", & 8"	1/2"

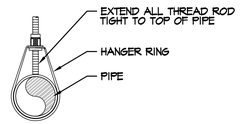
BEAM CLAMP HANGER DETAIL

NOT TO SCALE — 3 / FP-4.0



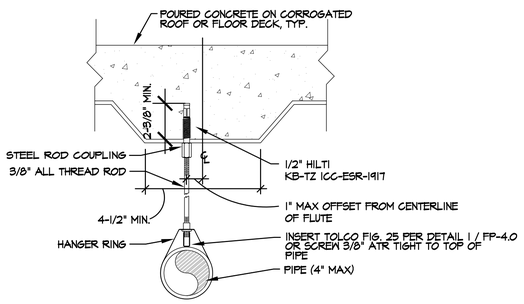
FIRE SPRINKLER DETAIL FOR 1" ANNULAR CLEARANCE

NOT TO SCALE — 6 / FP-4.0



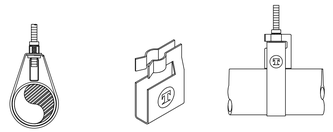
ROD STIFFENER DETAIL

NO SCALE — 2 / FP-4.0



VERTICAL CONCRETE HANGER

NOT TO SCALE — SHOWN ON PLAN AS 5 / FP-4.0



TOLCO FIG. 25 SURGE RESTRAINT

TYPE 1- FOR 1" AND 1-1/4" PIPE AND HANGER
TYPE 2 - FOR 1-1/2" AND 2" PIPE AND HANGER

TOLCO FIG. 25 IS DESIGNED TO BE USED ONLY WITH TOLCO BAND HANGERS FIG. 200 TO RESTRAIN THE UPWARD MOVEMENT OF PIPE AS IT OCCURS DURING SPRINKLER HEAD ACTIVATION OR SEISMIC ACTIVITY

LATERAL RESTRAINTS SHALL BE LOCATED WITHIN 2'-0" OF HANGER. THIS HANGER SHALL BE USED ALONG WITH VERTICAL RESTRAINTS.

VERTICAL RESTRAINT

NOT TO SCALE — 1 / FP-4.0

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DETAILS & BUILDING SECTION

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SEQUENCE OF OPERATIONS

SEQUENCE OF OPERATIONS

	SMOKE DETECTORS	AC POWER FAILURE AT NEV "FACP"	GROUND FAULT	SPRINKLER WATER FLOW SWITCH	SPRINKLER PIV/TAMPER SWITCH
ANNUNCIATE ALARM AT FACP/ANNUNCIATOR/CENTRAL STATION	YES	NO	NO	YES	NO
ANNUNCIATE TROUBLE AT FACP/ANNUNCIATOR/CENTRAL STATION (WIRING FAULT)	YES	YES	YES	YES	YES
ANNUNCIATE SUPERVISORY AT FACP/ANNUNCIATOR/CENTRAL STATION	NO	NO	NO	NO	YES
ACTIVATE NOTIFICATION APPLIANCE VISUALS AND AUDIO	YES	NO	NO	YES	NO

MONITORING COMPANY

MONITORING COMPANY

COMPANY	APPLE VALLEY COMMUNICATIONS
ADDRESS	22845 US HWY 18 APPLE VALLEY, CA 92308
PHONE NUMBER	760-247-2668
FAX NUMBER	760-247-2087
ID NUMBER	696540-001
LICENSE EXPIRATION	
PROTECTIVE SIGNALING SERVICE	REMOTE STATION

DESIGN SPECIFICATIONS

DESIGN SPECIFICATIONS

PROJECT NAME	COLLEGE SERVICES BUILDING - PROPOSED FIRE ALARM SYSTEM
OCCUPANCY	B
TYPE	II - N.R
SPRINKLED	VERIFY
SQUARE FOOTAGE	VERIFY
INSTALL NEW SYSTEM AS FOLLOWS	4 - WALL MOUNT STROBES 4 - SMOKE DETECTOR

FIRE ALARM SYMBOLS LIST

SYM	QTY	DESCRIPTION	BACKBOX/BASE	MANUFACTURER	PART NO.	CSFM LISTING
FACP	E	FIRE ALARM CONTROL PANEL	INSIDE FIRE ALARM CABINET	NOTIFIER	NFS2-3030	7170-0028:0223
--	E	CABINET ENCLOSURE FOR CONTROL PANEL	FOUR TIER "D" SIZE 24-1/8"W x 45-7/8"H x 5-5/32"D	NOTIFIER	DR-D4	7165-0028:0224
--	E	POWER SUPPLY FOR NFS2-3030	INSIDE FIRE ALARM CONTROL PANEL	NOTIFIER	AMPS-24	7165-0028:0244
--	E	6.0 AMP AUXILIARY POWER SUPPLY	INSIDE FIRE ALARM CONTROL PANEL	NOTIFIER	APS2-6R	7315-0028:0248
--	VERIFY	55AH BATTERY	PROVIDED W/PANEL OR NFS-LBB IF BATTERIES OVER 26AH	POWER SONIC	PS-12550	NOT APPLICABLE
SRD	E	SYSTEM RECORD DOCUMENT CABINET	SIZE 12"W x 13"H x 2-1/4"D	SPACE AGE ELECTRONIC	SSU00689	NOT APPLICABLE
UDACT	E	UNIVERSAL DIGITAL ALARM COMMUNICATOR TRANSMITTER	ABS-8RB 9.94"H x 4.63"W x 2.5"D	NOTIFIER	UDACT	7300-0028:0174
FAA	E	FIRE ALARM ANNUNCIATOR	ABF-1DB 4.625"W x 9.938"H x 2.5"D	NOTIFIER	LCD-160	7120-0028:0227
SPD	E	SURGE PROTECTION DEVICE	INSIDE 4-S BOX	SPACE AGE	E120V-GT	NOT APPLICABLE
SD	4	SMOKE DETECTOR W/ SENSOR BASE	4-S BOX W/3" O-RING	NOTIFIER	FSP-851 B210LP	7272-0028:0206 7300-1653:0109
S	4	L-SERIES STROBE, RED, WALL (Notification)	4-S BOX W/SINGLE GANG RING	SYSTEM SENSOR	SRL	7125-1653:0504
HS◀		L-SERIES 2-WIRE, HORN STROBE, RED, WALL (Notification)	4-S BOX W/SINGLE GANG RING	SYSTEM SENSOR	P2RL	7125-1653:0505
--	VERIFY	16/2 SOLID BARE COPPER WITH STP	NOT APPLICABLE	WEST PENN WIRE	991	7161-0859:0101
--	VERIFY	1 PR 16AWG STRANDED UNSHIELDED FIRE ALARM OUTDOOR CABLING	NOT APPLICABLE	WEST PENN WIRE	AQC226RDAVC	7161-0859:0101
--	VERIFY	INITIATION CABLE (2)#12/14 FOR USE WITH CONDUIT	NOT APPLICABLE	CES	THHN	NOT APPLICABLE
F	E	MANUAL PULL STATION	4-S BOX W/SINGLE GANG RING	NOTIFIER	NBG-12LX	7150-0028:0199

* E – EXISTING

GENERAL NOTES

1. ALL EQUIPMENT SHALL BE U.L. AND C.S.F.M. LISTED.

2. ALL WIRING SHALL BE IN ACCORDANCE WITH N.E.C. AND AUTHORITIES HAVING JURISDICTION.

3. ALL JUNCTION BOXES SHALL BE SIZED IN ACCORDANCE WITH THE N.E.C. AND SHALL HAVE THEIR COVERS PAINTED RED WHERE APPLICABLE.

4. ELECTRICAL CONTRACTOR SHALL FURNISH ACCESS PANELS TO INITIATING DEVICES THAT REQUIRE SERVICING, TROUBLE SHOOTING AND MAINTENANCE.

5. DO NOT DEVIATE FROM CONDUIT RUNS AS SHOWN ON FLOOR PLANS WITHOUT PRIOR APPROVAL FROM SYSTEM SUPPLIER (APPLE VALLEY COMMUNICATIONS, INC., TEL (760) 247-2668). FACTORS SUCH AS EXCESSIVE VOLTAGE DROP, ADDITIONAL PARTS, ENGINEERING, ETC., THAT ARE A RESULT OF CONDUIT RUN DEVIATIONS SHALL BE THE SOLE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR.

6. ALL 120VAC POWER REQUIREMENTS FOR THE FIRE ALARM SYSTEM SHALL BE FURNISHED BY THE ELECTRICAL CONTRACTOR AND SHALL MEET ALL REQUIREMENTS OF THE AUTHORITIES HAVING JURISDICTION.

7. ALL DEVICE BACKBOXES, TERMINAL CABINETS, GUTTERS, JUNCTION BOXES AND ASSOCIATED CONDUITS AS SHOWN ON THESE DRAWINGS SHALL BE FURNISHED AND INSTALLED BY THE ELECTRICAL CONTRACTOR UNLESS OTHERWISE NOTED. REFER TO SYMBOL LIST AND OR MOUNTING DETAILS FOR ADDITIONAL INFORMATION. SYSTEM SUPPLIER PROVIDED BACKBOXES SHALL BE INSTALLED BY THE ELECTRICAL CONTRACTOR UNLESS OTHERWISE NOTED.

8. ELECTRICAL POWER SERVICE SHALL BE ON A DEDICATED BRANCH CIRCUIT(S). THE CIRCUIT(S) AND CONNECTIONS SHALL BE MECHANICALLY PROTECTED (CIRCUIT BREAKERS SHALL BE LOCKED IN THE ON POSITION WITH AN APPROVED MECHANICAL CLIP). CIRCUIT DISCONNECTING MEANS SHALL HAVE A RED MARKING, SHALL BE ACCESSIBLE ONLY TO AUTHORIZED PERSONNEL AND SHALL BE PERMANENTLY IDENTIFIED AS "FIRE ALARM CIRCUIT". THE LOCATION OF THE CIRCUIT DISCONNECTING MEANS SHALL BE PERMANENTLY IDENTIFIED AT THE FIRE ALARM CONTROL UNIT.NFPA 72

9. TAMPER RESISTANT SCREWS OR OTHER APPROVED MECHANICAL MEANS SHALL BE PERMITTED FOR PREVENTING ACCESS TO JUNCTION BOXES AND DEVICE COVERS INSTALLED OUTSIDE OF BUILDINGS.

10. ALL CONDUITS ARE 3/4" UNLESS OTHERWISE NOTED.

11. ALL WIRING SHALL BE CUT FOR IN AND OUT. WIRING SHALL NOT BE LOOPED THROUGH DEVICES.

12. POINT AND COMMON ANNUNCIATION AND T-TAPPING ARE PROHIBITED (T-TAPPING IS ALLOWABLE ON ADDRESSABLE CLASS B SLC LOOPS).

13. ALL DEVICES IN THE ALARM SYSTEM SHALL BE COMPATIBLE AND INSTALLED PER MANUFACTURER'S SPECIFICATIONS.

14. ALL WIRING, INITIATING DEVICES AND ANNUNCIATOR PANEL SHALL BE SUPERVISED TO THE PRINCIPAL POINT OF ANNUNCIATION. THE FIRE ALARM CONTROL UNIT TO SUPERVISE THE ANNUNCIATOR PANEL, ALL INITIATING AND INDICATING DEVICE CIRCUITS.

15. SYSTEM SHALL BE FURNISHED AND INSTALLED BY A NESCO AFFILIATE AND AUTHORIZED NOTIFIER DISTRIBUTOR. INSTALLATION COMPANY SHALL BE UL LISTED (UUJSUUFX).

16. IN SPACES SERVED BY AIR-HANDLING SYSTEMS, DETECTORS SHALL NOT BE LOCATED WHERE AIRFLOW PREVENTS THE OPERATION OF THE DETECTORS. DETECTORS SHALL NOT BE LOCATED IN DIRECT AIRFLOW OR CLOSER THAN 36-INCHES FROM AN AIR SUPPLY DIFFUSER OR RETURN OPENING. SMOKE DETECTORS SHOULD BE LOCATED FARTHER AWAY FROM HIGH VELOCITY AIR SUPPLIES.(NFPA 72)

17. ALL FAN SHUTDOWN FUNCTIONS, DAMPER CLOSURES AND ASSOCIATED MECHANICAL SYSTEM FIRE ALARM INTERFACE SHALL BE BY THE MECHANICAL CONTRACTOR.

18. ALL DUCT DETECTORS SHALL BE MOUNTED BY THE MECHANICAL OR ELECTRICAL CONTRACTOR. IF DUCT SMOKE DETECTORS ARE EXPOSED TO THE WEATHER, THEY SHALL BE WEATHER PROTECTED BY THE MECHANICAL CONTRACTOR. ALL AIR VELOCITY TESTING SHALL BE PERFORMED BY THE MECHANICAL CONTRACTOR.

19. DETECTORS SHALL BE PROTECTED DURING CONSTRUCTION PER NFPA 72.

20. SMOKE DETECTORS AND HEAT DETECTOR SHALL BE LOCATED IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS AND NFPA 72.

21. SMOKE DETECTOR TESTING SHALL BE ACCOMPLISHED WITH SMOKE OR LISTED AEROSOL APPROVED BY THE MANUFACTURER PER NFPA 72 AS ACCEPTABLE BY THE A.H.J.

22. CENTER OF MANUAL PULL STATIONS SHALL BE MOUNTED AT 48" ABOVE FLOOR LEVEL.

23. CONTRACTOR TO PROVIDE 34" CONDUIT WITH (2) DEDICATED TELEPHONE LINES WITH (2) RJ-31X PHONE JACKS FROM TELEPHONE BACKBOARD FOR OWNER PROVIDED CENTRAL STATION MONITORING PANEL.

24. UPON COMPLETION OF ALL INSTALLATION AND TESTING, THE CONTRACTOR SHALL PROVIDE TO THE AUTHORITY HAVING JURISDICTION AND THE BUILDING OWNER A COMPLETED AND SIGNED NFPA 72 CERTIFICATE OF COMPLETION.

25. ALL CEILING-MOUNTED STROBE LOCATIONS ARE SPACED IN ACCORDANCE WITH NFPA 72, REQUIREMENTS BASED UPON CEILING HEIGHT AT THAT LOCATION.

26. ALL WALL-MOUNTED VISUAL SIGNALING APPLIANCES SHALL BE MOUNTED SUCH THAT THE ENTIRE LENS IS NOT LESS THAN 80 IN. (2.03m) AND NOT GREATER THAN 96 IN. ABOVE THE FINISHED FLOOR (A.F.F.) PER NFPA 72. ALL WALL MOUNTED AUDIBLE DEVICES SHALL BE A MINIMUM OF 90" A.F.F. TO TOP OF DEVICE PER NFPA 72.

27. AREAS HAVING MORE THAN 2 STROBES IN THE FIELD OF VIEW SHALL BE SYNCHRONIZED PER NFPA 72.

28. PUBLIC MODE AUDIBLE REQUIREMENTS, UNLESS OTHERWISE PERMITTED BY THE AUTHORITY HAVING JURISDICTION, SHALL HAVE A SOUND LEVEL AT LEAST 15DB ABOVE THE MAXIMUM SOUND LEVEL HAVING A DURATION OF A LEAST 60 SECONDS, WHICHEVER IS GREATER. MEASURED 5 FEET ABOVE THE FLOOR IN THE AREA REQUIRED TO BE SERVED BY THE SYSTEM USING ALARM SYSTEM USING THE A-WEIGHTED SCALE (dBA).

29. THE ALARM AUDIBLE SIGNAL PATTERN USED TO NOTIFY BUILDING OCCUPANTS OF THE NEED TO EVACUATE OR RELOCATE SHALL BE THE STANDARD ALARM EVACUATION OF THREE-PULSE PATTERN AND THAT THIS SOUND NOT TO BE USED FOR ANY OTHER PURPOSE (NFPA 72) FIRE ALARM SIGNAL.

30. FIRE ALARM CONTRACTOR SHALL PROVIDE AN IMPEDANCE METER AT THE TIME OF FINAL INSPECTION WHEN REQUIRED BY THE AUTHORITY HAVING JURISDICTION.

31. THE KITCHEN HOOD FIRE SUPPRESSION SYSTEM WILL BE SUPERVISED AND MONITORED BY THE FIRE ALARM SYSTEM.

32. AUDIBLE DEVICES SHALL BE SYNCHRONIZED TEMPORAL CODE 3 PATTERN.

33. VISUAL DEVICES SHOULD NOT EXCEED 2 FLASHES PER SECOND AND SHOULD NOT BE SLOWER THAN 1 FLASH EVERY SECOND. THE DEVICE SHALL HAVE A PULSING LIGHT SOURCE NOT LESS THAN 15 CANDELLA. VISUAL DEVICES WITHIN 55' FROM EACH OTHER SHALL BE SYNCHRONIZED.

34. UNDERGROUND AND EXTERIOR CONDUITS TO HAVE WATERTIGHT FITTINGS AND WIRE TO BE APPROVAL FOR WET LOCATIONS.

35. ALL FIRE ALARM WIRING SHALL BE FLP OR FPLP (FIRE POWER LIMITED OR FIRE POWER LIMITED PLENUM) AS REQUIRED FOR APPLICATION. WIRING IN CONDUIT ABOVE GROUND MAY BE THHN OR THWN.

36. PER CEC STANDARDS, ALL WIRING IS TO BE PULLED THROUGH EACH JUNCTION BOX AND CONNECTED DIRECTLY TO EACH FIRE DEVICE. DO NOT SPLICE THE WIRE. ALL BOXES TO BE SIZED PER CEC.

37. SMOKE DETECTORS SHALL NOT BE ANY CLOSER THAN 1' FROM FIRE SPRINKLERS OR 3' FROM ANY SUPPLY DIFFUSER. IN AREA OF CONSTRUCTION OR POSSIBLE DAMAGE/CONTAMINATION ON NEWLY INSTALLED FIRE ALARM DEVICES SHALL BE COVERED UNTIL THAT AREA IS READY TO BE TURNED OVER TO THE OWNER.

38. FIRE ALARM PANEL, REMOTES, AND COMPONENTS SHALL BE SECURED TO MOUNTING SURFACES PER MANUFACTURERS SPECIFICATIONS. NO SINGLE DEVICE SHALL EXCEED THE WEIGHT OF 20 LBS. WITHOUT SPECIAL MOUNTING DETAILS.

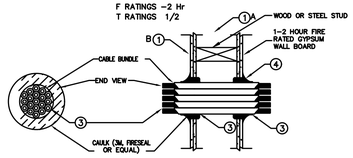
39. SUPERVISORY MONITORING SHALL BE TESTED AND VERIFIED AS SENDING CORRECT SIGNALS IN CONJUNCTION WITH FINAL ACCEPTANCE TEST.

40. OWNER SHALL BE RESPONSIBLE FOR ESTABLISHING A FIRE SYSTEM MONITORING CONTRACT OR PROVISIONS.

SHEET LIST

SHEET #	SHEET DESCRIPTION
FA-001	COVER PAGE
FA-002	FLOOR PLAN
FA-003	FIRE ALARM WIRING DIAGRAM & SINGLE LINE DIAGRAM
FA-004	FIRE ALARM CONTROL PANEL DETAIL

THROUGH PENETRATION



THRU WALL SECTION

1. WALL ASSEMBLY – THE FIRE-RATED GYPSUM WALLBOARD/STUD WALL ASSEMBLY SHALL BE CONSTRUCTED OF THE MATERIALS AND IN THE MANNER DESCRIBED IN THE INDIVIDUAL U300 OR U400 OF SERIES WALL OR PARTITION DESIGNS IN THE UL FIRE RESISTANCE DIRECTORY AND SHALL INCLUDE THE FOLLOWING CONSTRUCTION FEATURES:

A. STUDS – WALL FRAMING MAY CONSIST OF EITHER WOOD STUDS (MAX 2H FIRE RATED ASSEMBLIES) OR STEEL CHANNEL STUDS. WOOD STUDS TO CONSIST OF NOM 2 BY 4 IN. LUMBER SPACED 16 IN. OC WITH NOM 2 BY 4 IN. LUMBER END PLATES AND CROSS BRACES. STEEL STUDS IN. OC.
B. WALLBOARD, GYPSUM– TWO LAYERS NOM 5/8 IN. THICK, GYPSUM WALLBOARD, AS SPECIFIED IN THE INDIVIDUAL WALL OR PARTITION DESIGN. MAX DIA OF OPENING IS 1-1/4 IN.

2. CABLES–MAX. 4 IN. DIAM. TIGHT BUNDLE OF CABLES CENTERED IN CIRCULAR CUTOUTS IN GYPSUM WALLBOARD AND RIGIDLY SUPPORTED ON BOTH SIDES OF WALL ASSEMBLY. ANY COMBINATION OF THE FOLLOWING TYPES AND SIZES OF COPPER CONDUCTOR CABLES MAY BE USED:

A. MAX 350 KCMIL SINGLE CONDUCTOR POWER CABLES CROSS–LINKED POLYETHYLENE (XLPE) INSULATION.

B. MAX NO 2/0 AWG MULTICONDUCTOR POWER AND CONTROL CABLES: XLPE INSULATION.

C. MAX 150 PAIR NO. 24 AWG TELECOMMUNICATION CABLE: PVC INSULATION AND JACKET MATERIALS.

3. FILL, VOID OR CAVITY MATERIAL*–WRAP STRIP– NOM. 1/4 IN. THICK INTUMESCENT ELASTOMERIC MATERIAL FACED ON ONE SIDE WITH ALUMINUM FOIL, SUPPLIED IN NOM 2 IN. WIDE STRIP TIGHTLY WRAPPED AROUND CABLE BUNDLE (FOIL SIDE OUT) WITH SEAM BUTTED. WRAP STRIP LAYER SECURELY BOUND WITH STEEL WIRE TIE AND SLID INTO ANNULAR SPACE APPROX. 1-1/4 IN. SUCH THAT APPROX. 3/4 IN. OF THE WRAP STRIP WIDTH PROTRUDES FROM THE WALL SURFACE ON EACH SIDE OF THE ASSEMBLY.

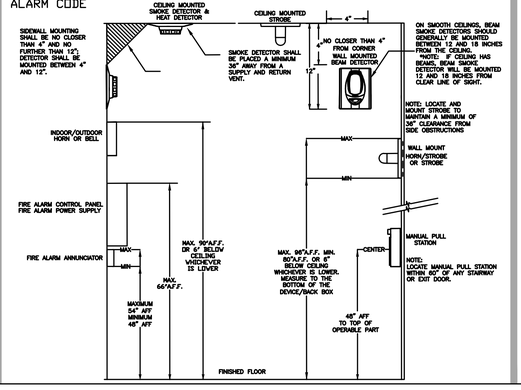
4. FILL, VOID OR CAVITY MATERIAL*–CAULK – MIN 1/4 IN. DIAM CONTINUOUS BEAD OF CAULK APPLIED TO THE WRAP STRIP/WALL INTERFACE AND EXPOSED EDGE OF THE WRAP STRIP APROX 3/4 IN. FROM THE WALL SURFACE ON EACH SIDE OF WALL ASSEMBLY. CAULK TO BE FORCED INTO THE INTERSTICES OF THE CABLE BUNDLE TO THE MAX EXTENT POSSIBLE WITHIN THE CONFINES OF THE WRAP STRIP ON EACH SIDE OF THE WALL ASSEMBLY.

MOUNTING HEIGHT

AUDIBLE NOTIFICATION DEVICES SHALL BE MOUNTED A MINIMUM OF 90" (2.30m) ABOVE FINISHED FLOOR, OR NO LESS THAN 6' (152mm) BELOW FINISHED CEILING PER NFPA 72 2016 FIRE ALARM CODE,

VISIBLE OR COMBINATION AUDIBLE/VISIBLE DEVICES SHALL BE MOUNTED SUCH THAT THE ENTIRE LENS IS NOT LESS THAN 80 IN. (2.03 M) AND NOT GREATER THAN 96 IN. (2.44 M) ABOVE THE FINISHED FLOOR PER NFPA 72 2016 FIRE ALARM CODE,

MANUAL PULL STATIONS SHALL BE MOUNTED NO LESS THAN 42" (1.1m) AND NO MORE THAN 54" (1.37m) ABOVE FINISHED FLOOR PER NFPA 72 2016 FIRE ALARM CODE



APPLICABLE CODES

2016 CALIFORNIA BUILDING STANDARDS ADMINISTRATIVE CODE
PART 1, TITLE 24, CALIFORNIA CODE OF REGULATIONS (CCR)

2016 CALIFORNIA BUILDING CODE
PART 2, TITLE 24, CCR
(2015 IBC AND 2016 CALIFORNIA AMENDMENTS)

2016 CALIFORNIA ELECTRICAL CODE
PART 3, TITLE 24, CCR
(2017 NEC AND 2016 CALIFORNIA AMENDMENTS)

2016 CALIFORNIA MECHANICAL CODE
PART 4, TITLE 24, CCR
(2015 UMC AND 2016 CALIFORNIA AMENDMENTS)

2016 CALIFORNIA PLUMBING CODE
PART 5, TITLE 24, CCR
(2013 UPC AND 2016 CALIFORNIA AMENDMENTS)

2016 CALIFORNIA FIRE CODE
PART 9, TITLE 24, CCR
(2013 IFC AND 2016 CALIFORNIA AMENDMENTS)

2016 NATIONAL FIRE PROTECTION ASSOCIATION (NFPA)

DSA

REVIEWED BY

	DATE
DISTRICT ARCHITECT	DATE
ASSISTANT DISTRICT ARCHITECT	DATE
OTHER	DATE
OTHER	DATE
OTHER	DATE
OTHER	DATE

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Blythe, CA 92225

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T 619.294.7515
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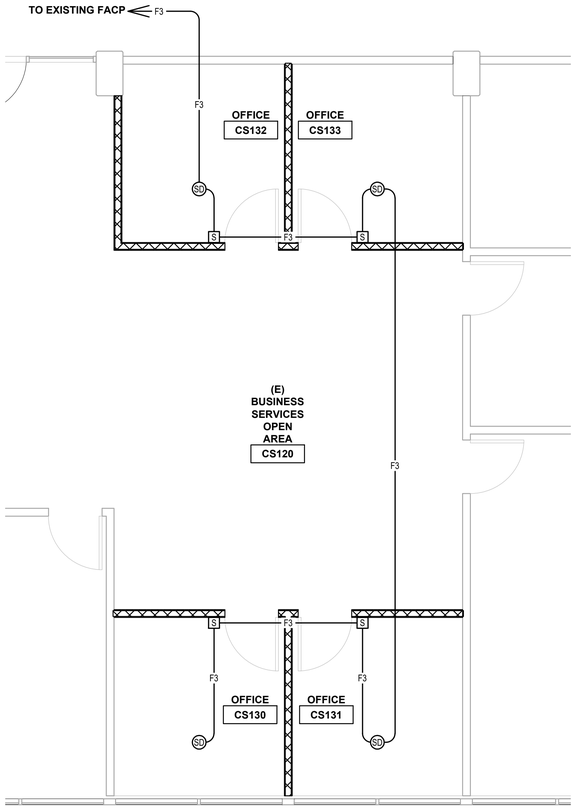
www.sillmanwright.com

GENERAL NOTES

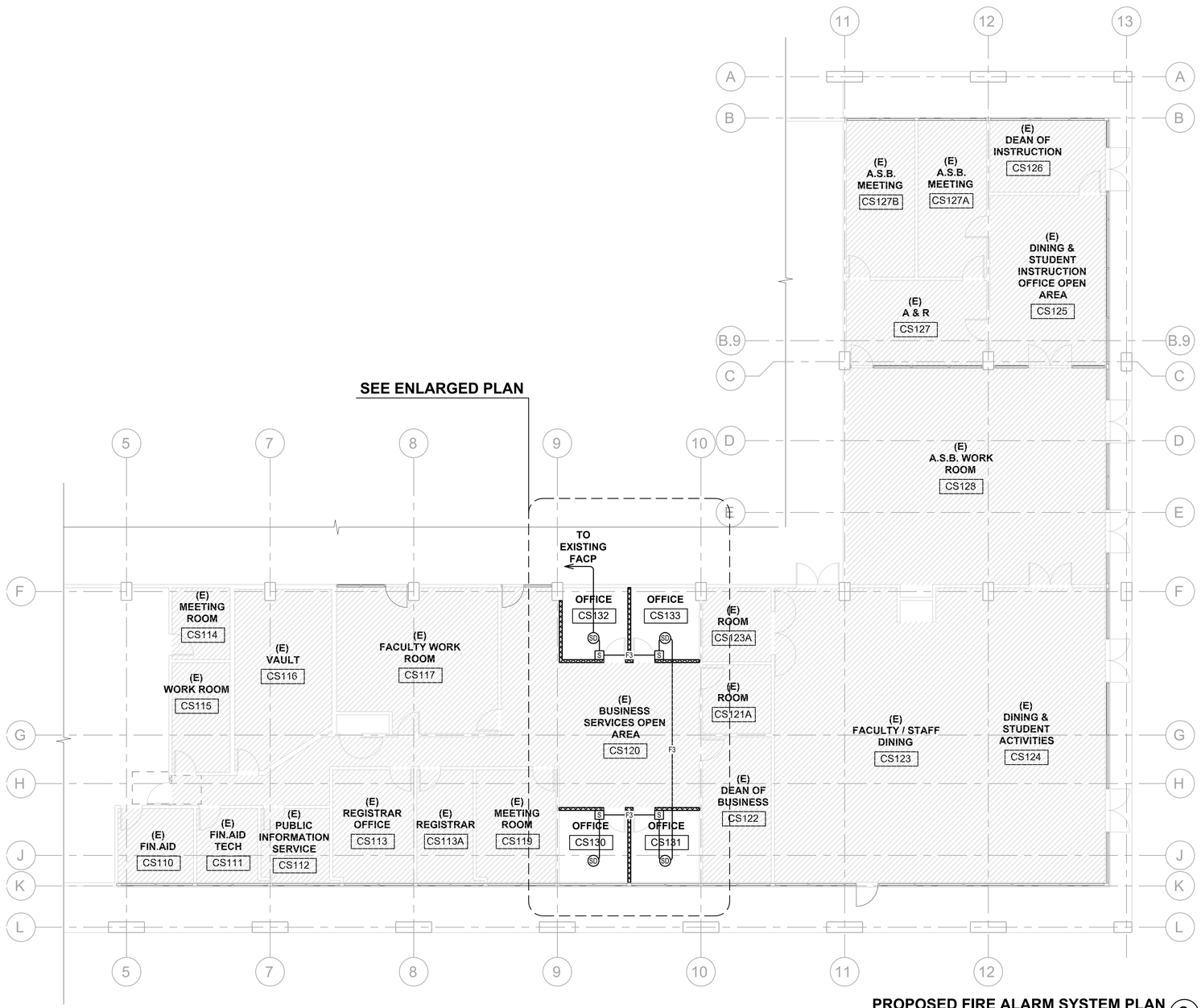
COLLEGE SERVICES BUILDING
PALO VERDE COMMUNITY COLLEGE DISTRICT
West Sixth Avenue, Blythe, CA 92225

PROJECT NO. 20016 A.P.
20016 Palo Verde College
DATE 1/28/2021
DRAWN - -
CHECKED - -
REVISIONS
SHEET NO. FA-001
OF 35- 38 SHEETS



ENLARGED PLAN (1)

1/4" = 1'-0"



PROPOSED FIRE ALARM SYSTEM PLAN (2)

1/8" = 1'-0"

CONDUIT SCHEDULE				
LABEL	WIRES	SIZE	FILL %	NOTES
FA	2(1PR) 16AWG, 2#12AWG	3/4" CONDUIT	19.63 %	- -
F2U	2#14 THHN/THWN	3/4" CONDUIT	3.56 %	4
F1	1PR 16AWG	3/4" CONDUIT	7.32 %	1
F2	2#12 THHN/THWN	3/4" CONDUIT	4.98 %	3
F3	1PR 16AWG, 2#12 THHN/THWN	3/4" CONDUIT	12.30 %	1 & 3
F4	4#12 THHN/THWN	3/4" CONDUIT	9.96 %	3
F5	1PR 16AWG, 4#12 THHN/THWN	3/4" CONDUIT	17.28 %	1 & 3

NOTES:

1. 1PR 16AWG = WEST PENN #990; INSIDE ONLY.
2. 1PR 16AWG = WEST PENN #AQCAQ226RDAVC; UNDERGROUND ONLY.
3. 2# 12 = CES THHN/THWN
4. 2# 14 = CES THHN/THWN
5. ALL WIRING TO BE LISTED FOR USE AS REQUIRED BY TITLE 24/CEC, ART. 760.
6. CONDUIT TO NOT EXCEED 40% FILL PER NEC STANDARDS.

GENERAL NOTES

1. NEW FIRE ALARM CIRCUIT SHALL BE CONNECTED TO THE NEAREST EXISTING FIRE ALARM CONTROL PANEL.
2. THE CONTRACTOR SHALL VERIFY THE LOCATION OF THE EXISTING FACP.
3. INSTALL 1 SYSTEM RECORD DOCUMENT ENCLOSURE PER NFPA 72 2013 7.7.2.4.
4. FINAL DRAWINGS SHALL BE PLACED IN THE RECORD DOCUMENT ENCLOSURE FOR FUTURE REFERENCE.
5. INITIATING & NOTIFICATION DEVICES SHALL BE LABELED WITH ADDRESS/CIRCUIT NUMBER. THE E.O.L SHALL BE LABELED AT THE ASSOCIATED DEVICE.
6. ANY REQUIRED FIRE SPRINKLER INSTALLATIONS/ MODIFICATIONS NECESSITATED BY THIS CONSTRUCTION MUST BE MADE UNDER FIRE PROTECTION PLANS APPROVED BY THE FIRE DEPARTMENT UNDER A SEPARATE PERMIT.
7. REMOVE ANY EXISTING NOTIFICATION DEVICES.

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	DATE		DATE		DATE		DATE		DATE		DATE
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PROPOSED FIRE ALARM SYSTEM PLAN

COLLEGE SERVICES BUILDING
PALO VERDE COMMUNITY COLLEGE DISTRICT
West Sixth Avenue, Blythe, CA 92225

PROJECT NO. 20016 A.P.

20016 Palo Verde College

DATE 1/28/2021 DRAWN - - CHECKED - -

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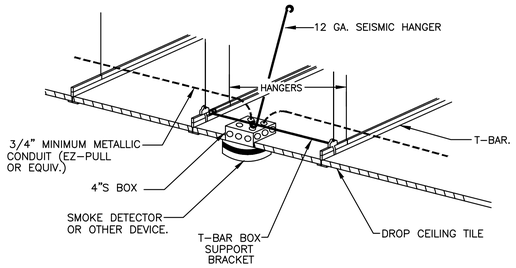
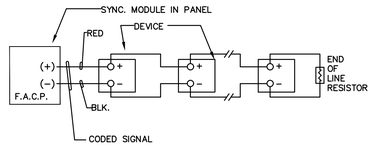
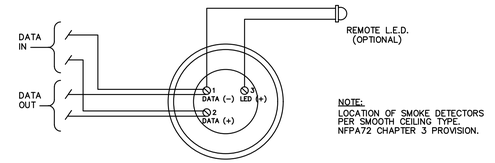


TYPICAL SMOKE DETECTOR CEILING MOUNT INSTALLATION DETAIL

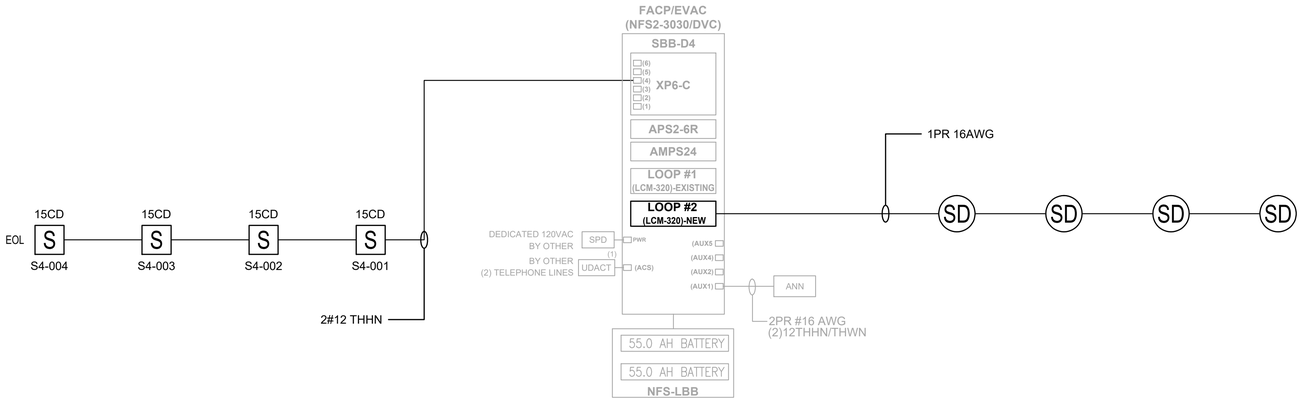


TYPICAL AUDIO/VISUAL DEVICE WIRING



TYPICAL SMOKE DETECTOR WIRING

TYPICAL WIRING DIAGRAM 1
NTS



RISER NOTES

1. ALL NOTIFICATION DEVICES SHALL BE SYNCHRONIZED.
2. DO NOT USE RISER DIAGRAM FOR DEVICE TO DEVICE WIRING, SEE FLOOR PLAN FOR ACTUAL PATH.
3. RISER DIAGRAM IS FOR REFERENCE OF ALL DEVICES AND ADDRESSES BEING USED ON FIRE ALARM SYSTEM.

BATTERY CALCULATIONS FOR PANEL: NFS2-3030

Part No:SBB-D4 - BACKBOX, 4 CHASSIS, BLACK

Job name: College Service Building
Address 1: 1 College Drive
Address 2: Blythe, CA 92225

Part No.	Qty.	Description	Standby	Total Standby	Alarm	Total Alarm
		Panel Equipment				
CPU2-3030D	1	CENTRAL PROCESSING UNIT FOR THE NFS2-3030D (EXISTING)	340.0000mA	340.0000mA	340.0000mA	340.0000mA
LCM-320	1	LOOP CONTROL MODULE (EXISTING)	130.0000mA	130.0000mA	130.0000mA	130.0000mA
LCM-320	**1**	**LOOP CONTROL MODULE (NEW)**	**130.0000mA**	**130.0000mA**	**130.0000mA**	**130.0000mA**
AMPS-24	1	ADDRESSABLE POWER SUPPLY, 120 VAC (NFS-3030) (EXISTING)	52.0000mA	52.0000mA	52.0000mA	52.0000mA
APS2-6R	1	AUXILIARY POWER SUPPLY, 6 AMPS 120V (EXISTING)	25.0000mA	25.0000mA	25.0000mA	25.0000mA
XP6-C	1	XP6 TRANSPONDER CONTROL MODULE, 6 CIRCUITS (EXISTING)	0.0000mA	0.0000mA	0.0000mA	0.0000mA
LCD-160	1	160 CHARACTER DISPLAY ANNUNCIATOR; (EXISTING)	300.0000mA	300.0000mA	325.0000mA	325.0000mA
			Total Panel Stby	977.0000mA	Total Panel Alarm	1002.0000mA
		Peripheral Devices				
ABS-2D	1	SURFACE (OR SEMI-FLUSH) MOUNT BACKBOX, BLACK, LCD-160 (Power)	300.0000mA	300.0000mA	325.0000mA	325.0000mA
ABS-2D	1	SURFACE (OR SEMI-FLUSH) MOUNT BACKBOX, BLACK, LCD-160 (Serial)	0.0000mA	0.0000mA	0.0000mA	0.0000mA
SRL	4	L-SERIES STROBE, RED, WALL (Notification) (EXISTING)	0.0000mA	0.0000mA	43.0000mA	430.0000mA
SRL	**4**	**L-SERIES STROBE, RED, WALL (Notification) (NEW)**	**0.0000mA**	**0.0000mA**	**43.0000mA**	**172.0000mA**
P2RL	2	L-SERIES 2-WIRE, HORN STROBE, RED, WALL (Notification)	0.0000mA	0.0000mA	73.0000mA	146.0000mA
P2RL	2	L-SERIES 2-WIRE, HORN STROBE, RED, WALL (Notification)	0.0000mA	0.0000mA	119.0000mA	238.0000mA
FSP-851	19	PHOTO DETECTOR, INTELL. ADDRESSABLE (Signaling line) (EXISTING)	0.3600mA	6.8400mA	6.5000mA	123.5000mA
FSP-851	11	PHOTO DETECTOR, INTELL. ADDRESSABLE (Signaling line) (EXISTING)	0.3600mA	3.9600mA	6.5000mA	71.5000mA
FSP-851	**4**	**PHOTO DETECTOR, INTELL. ADDRESSABLE (Signaling line) (NEW)**	**0.3600mA**	**1.4400mA**	**6.5000mA**	**26.0000mA**
FCM-1-REL	24	RELEASING CONTROL MODULE WITH FLASHSCAN (Signaling line) (EXISTING)	6.4000mA	153.6000mA	10.0000mA	240.0000mA
NBG-12LX	23	PULL STATION, NBG-12L, FLASHSCAN, ADDRESSABLE (Signaling line) (EXISTING)	0.0038mA	0.0874mA	5.0000mA	115.0000mA
FST-851	1	THERMAL DETECTOR, INTELL. ADDRESSABLE (Signaling line) (EXISTING)	0.3000mA	0.3000mA	6.5000mA	6.5000mA
FMM-1	11	MONITOR MODULE W/FLASHSCAN, ADDRESSABLE (Signaling line) (EXISTING)	0.3750mA	4.1250mA	5.1000mA	56.1000mA
FRM-1	19	RELAY MODULE, INTELL. ADDRESSABLE (Signaling line) (EXISTING)	0.2300mA	4.3700mA	6.5000mA	123.5000mA
FCM-1-REL	24	RELEASING CONTROL MODULE WITH FLASHSCAN (Power) (EXISTING)	0.0000mA	0.0000mA	0.0000mA	0.0000mA
FRM-1	19	RELAY MODULE, INTELL. ADDRESSABLE (Power) (EXISTING)	0.0000mA	0.0000mA	0.0000mA	0.0000mA
			Total Peripheral Stby	474.7224mA	Total Periph Alarm	2073.1000mA
			Total Standby Amps	1451.7224mA	Total Alarm Amps	3075.1000mA

Standby time: 24 Hrs	34.841Ah	
Alarm time: 5 Min	0.256Ah	
Battery requirement:	35.097Ah	
Compensation Factors - Standby: 1.2 Alarm: 1.2	Requirement with compensation:	50.14Ah
Spare Battery Capacity: 45%	Required Battery Size:	(2) 55.000Ah

CIRCUIT CALCULATIONS PANEL: NFS2-3030 CARD: XP6-C CIRCUIT:S4-

CIRCUIT NAME: S4-
CIRCUIT TYPE: NOTIFICATION TERMINAL VOLTAGE: 20.4V DC AMPERAGE: -1000.0000 mA
CABLE: 12/2 SOL JKT FPLR 1M RL RED #12
CALCULATIONS BASED ON RUNNING TOTAL LENGTH.

DESIGN CRITERIA:
AMBIENT TEMPERATURE: 167°F MAX. OPERATING VOLTAGE DROP: 10%

DEVICE	PART NO	DESCRIPTION	DISTANCE	CURRENT	VOLTAGE	VOLTAGE DROP
	SBB-D4	PANEL			20.4V	
001	SRL	L-SERIES STROBE, RED, WALL, 15CD	160'-0	43.0000mA	20.2560V	(0.144V)
002	SRL	L-SERIES STROBE, RED, WALL, 15CD	10'-0	43.0000mA	20.2944V	(0.009V)
003	SRL	L-SERIES STROBE, RED, WALL, 15CD	30'-0	43.0000mA	20.2560V	(0.027V)
004	SRL	L-SERIES STROBE, RED, WALL, 15CD	10'-0	43.0000mA	20.2944V	(0.009V)
			210'-0	172.0000mA		

TOTAL CURRENT : 172.0000mA
(TOTAL VDROP PERCENT : 0.93%) TOTAL VOLTAGE DROP : 0.1890V

FIRE ALARM SINGLE LINE DIAGRAM 2
NTS

REVIEWED BY

	DATE	
DSA		
DISTRICT ARCHITECT	DATE	
ASSISTANT DISTRICT ARCHITECT	DATE	
OTHER	DATE	
OTHER	DATE	
OTHER	DATE	
OTHER	DATE	

CONSULTANT
LPG ENGINEERING INC
www.lpgengineering.net

EOR/CONSULTANT
REGISTERED PROFESSIONAL ENGINEER
MICHAEL LEVITT
ELECTRICAL
STATE OF CALIFORNIA
SIGNATURE
EXP. DATE 09/30/22

PALO VERDE COLLEGE
WHERE KNOWLEDGE TAKES ROOT AND OPPORTUNITY GROWS

Palo Verde Community College District
1 College Drive
Blythe, CA 92225

PREPARED FOR THE
BOARD OF EDUCATION
PALO VERDE COMMUNITY COLLEGE DISTRICT
BLYTHE, CALIFORNIA

PREPARED BY
SILLMAN WRIGHT ARCHITECTS
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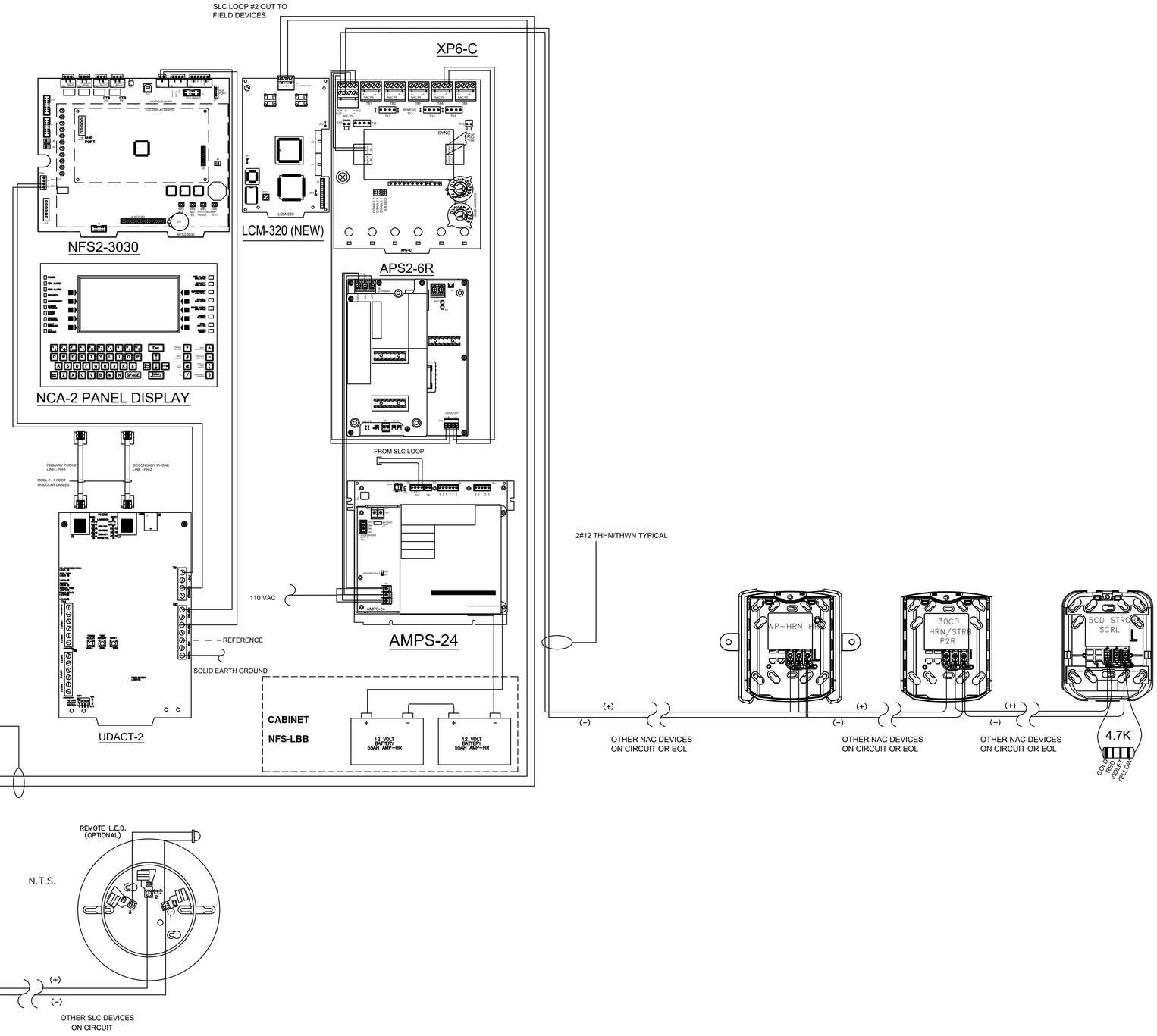
www.sillmanwright.com

FIRE ALARM RISER & WIRE DIAGRAM

COLLEGE SERVICES BUILDING
PALO VERDE COMMUNITY COLLEGE DISTRICT
West Sixth Avenue, Blythe, CA 92225

PROJECT NO. 20016 A.P.
20016 Palo Verde College
DATE 1/28/2021 DRAWN - -
CHECKED - -
REVISIONS
SHEET NO. -
FA-003
OF 37 - 38 SHEETS



NFS2 - 3030 WITH DVC, DAA2, NCA-2

NOTE:
LOCATION OF SMOKE DETECTORS
PER SMOOTH CEILING TYPE.

FIRE ALARM CONTROL PANEL DETAIL 1
NTS

REVIEWED BY

DISTRICT ARCHITECT	DATE	DSA
ASSISTANT DISTRICT ARCHITECT	DATE	
OTHER	DATE	
OTHER	DATE	
OTHER	DATE	
OTHER	DATE	

LPG ENGINEERING INC
www.lpgengineering.net
CONSULTANT

REGISTERED PROFESSIONAL ENGINEER
MICHAEL LEVITT
E18941
SIGNATURE
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FIRE ALARM CONTROL PANEL
DETAIL

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