ENVIRONMENTAL HEALTH 2ND FLOOR REMODEL

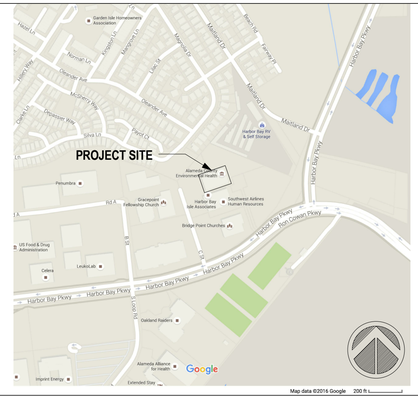
1131 HARBOR BAY PARKWAY
ALAMEDA, CA 94502

ABBREVIATIONS

∠	ANGLE (DEGREES)
&	AND
(E)	EXISTING
(N)	NEW
@	AT
AB	ANCHOR BOLT
ACOUS	ACOUSTICAL
ADD	ADDENDUM
ADD'L	ADDITIONAL
ADJ	ADJACENT/ ADJUSTABLE
AFF	ABOVE FINISH FLOOR
ALT	ALTERNATE
ALUM	ALUMINUM
ANOD	ANODIZED
APPROX	APPROXIMATELY
ARCH	ARCHITECT (URAL)
ASPH	ASPHALT
BD	BOARD
B/N	BETWEEN
BEV	BEVELED
BLDG	BUILDING
BLK'G	BLOCKING
BM	BEAM
BO	BOTTOM (OF)
CB	CATCH BASIN
CEM	CEMENT
CER	CERAMIC
CFMF	COLD FORMED METAL FRAMING
CG	CORNER GUARD
CIP	CAST-IN-PLACE
CL	CENTER LINE
CLG	CEILING
CLR	CLEAR
CMU	CONCRETE MASONRY UNIT
CNTR	COUNTER
COL	COLUMN
CONC	CONCRETE
CT	CERAMIC TILE
CTR	CENTER
CTSK	COUNTERSINK
DEG	DEGREES
DEMO	DEMOLITION
DIA	DIAMETER
DIM	DIMENSION
DISP	DISPENSER/ DISPOSAL
DN	DOWN
DTL	DETAIL
DWG(S)	DRAWING (S)
(E)	EXISTING
EA	EACH
EB	EXPOSED BOLT
EL	ELEVATION
ELEC	ELECTRIC(AL)
EMER	EMERGENCY
EPT	EXTERIOR PAINT
ENCL	ENCLOSED/ ENCLOSURE
ENTR	ENTRANCE
EP	ELECTIC PANEL BOARD
EQ	EQUAL
EQUIP	EQUIPMENT
ETC	ETCETERA
EXT	EXTERIOR
EXTR	EXTRUDED
F/F	FACE TO FACE
FA	FIRE ALARM
FAB	FABRICATE
FA	FIRE ALARM PANEL
FB	FLAT BAR
FD	FLOOR DRAIN
FE	FIRE EXTINGUISHER
FF	FINISH FLOOR
FIN	FINISH(ED)
FIXT	FIXTURE
FL	FLOOR LINE
FLASH	FLASHING
FLR	FLOOR
FLUOR	FLUORESCENT
FO	FACE OF
FOC	FACE OF CONCRETE
FOF	FACE OF FINISH
FOIC	FURNISHED BY OWNER INSTALLED BY CONTRACTOR
FOM	FACE OF MASONRY
FOS	FACE OF STUD
FRM'G	FRAMING
FT	FOOT/ FEET
FTG	FOOTING
GA	GAUGE
GALV	GALVANISED
GB	GRAB BAR
GB-24	24" LONG GRAB BAR
GB-36	36" LONG GRAB BAR
GB-42	42" LONG GRAB BAR
GC	GENERAL CONTRACTOR
GFI	GROUND FAULT INTERRUPT
GL	GLASS/ GLAZING
GND	GROUND
GSM	GALVANIZED SHEET METAL
GWB	GYPSUM WALL BOARD
GYP	GYSUM
H/C	HANDICAPPED
HDR	HEADER
HDWD	HARDWOOD
HDWE	HARDWARE
HM	HOLLOW METAL
HORIZ	HORIZONTAL
HT	HEIGHT
ID	INSIDE DIAMETER/ DIMENSION
IN	INCH
INFO	INFORMATION
INT	INTERIOR
INV	INVERT
J-BOX	JUNCTION BOX
KO	KNOCKOUT
KP	KICK PLATE
LIN	LINEAR
LL	LIVE LOAD
LP	LOW POINT
L5T	LIGHT
LTG	LIGHTING
LVR	LOUVER
LWC	LIGHTWEIGHT CONCRETE
MAS	MASONRY
MAT'L	MATERIAL
MAX	MAXIMUM
MECH	MECHANICAL
MFR	MANUFACTURER
MIN	MINIMUM
MIRR	MIRROR
MISC	MISCELLANEOUS
MO	MASONRY OPENING
MTD	MOUNTED
MTL	METAL
MUL	MULLION
(N)	NEW
N/A	NOT APPLICABLE
NIC	NOT IN CONTRACT
NO	NUMBER
NOM	NOMINAL
NTS	NOT TO SCALE
O/	OVER
OA	OVERALL
OC	ON CENTER
OD	OUTSIDE DIAMETER/ DIMENSION
OFOI	OWNER FURNISHED OWNER INSTALLED
OFCI	OWNER FURNISHED CONTRACTOR INSTALLED
OH	OPPOSITE HAND
OPNG	OPENING
P.L.	PROPERTY LINE
PC	PRECAST CONCRETE
PERF	PERFORATED
PL	PLATE
PLAS	PLASTER
PLY	PLYWOOD
PR	PAIR
PT	POINT/ PRESSURE TREATED
PTD	PAINT/ PAINTED
R&S	ROD & SHELF
RAD	RADIUS
RB	RUBBER BASE/ RESILIENT BASE
RCP	REFLECTED CEILING PLAN
RDWD	REDWOOD
REF	REFERENCE
REQ'D	REQUIRED
REV	REVISION
RM	ROOM
RO	ROUGH OPENING
RWL	RAIN WATER LEADER
S/S	STAIINLESS STEEL
SAD	SEE ARCHITECTURAL DRAWINGS
SCD	SEE CIVIL DRAWINGS
SCHED	SCHEDULE
SCW	SOLID CORE WOOD
SED	SEE ELECTRICAL DRAWINGS
SF,SQFT	SQUARE FOOT
SHT	SHEET
SIM	SIIMILIAR
SLD	SEE LANDSCAPE DRAWINGS
SMD	SEE MECHANICAL DRAWINGS
SMS	SHEET METAL SCREW
SPD	SEE PLUMBING DRAWINGS
SPEC	SPECIFICATION
SPKR	SPEAKER
SQ	SQUARE
SSD	SEE STRUCTURAL DRAWINGS
SST	STAINLESS STEEL
STC	SOUND TRANSMISION CLASS
STD	STANDARD
STL	STEEL
STOR	STORAGE
STRUCT	STRUCTURE/ STRUCTURAL
STS	SELF-TAPPING SCREW
SURR	SURROUND
SUSP	SUSPENDED
TBD	TO BE DETERMINED
T&G	TONGUE & GROOVE
THRU	THROUGH
TO	TOP OF
TOB	TOP OF BEAM
TOC	TOP OF CONCRETE
TOD	TO P OF DECK
TOP	TOP OF PLATE OR PARAPET
TOS	TOP OF SLAB
TOW	TOP OF WALL
TPD	TOILET PAPER DISPENSER
TYP	TYPICAL
UBC	UNIFORM BUILDING CODE
UL	UNDERWRITERS LABORATORIES INC.
UNF	UNFINISHED
UON	UNLESS OTHERWISE NOTED
UTIL	UTILITY
V	VOLTS
VAR	VARIES
VERT	VERTICAL
VIF	VERIFY IN FIELD
W/	WITH
W/O	WITHOUT
WC	WATER CLOSET
WD	WOOD
WF	WIDE FLANGE (STRUCTURAL STEEL)
WNDW	WINDOW
WO	WHERE OCCURS
WP	WORK POINT/ WATERPROOF (ING)
WSCT	WAINSCOT
X	BY

DRAWING INDEX

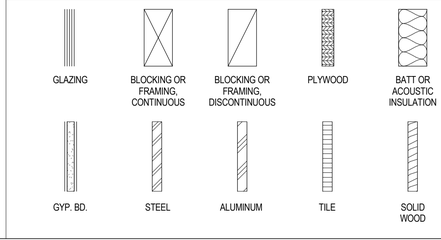
VICINITY MAP



PROJECT DESCRIPTION

TENANT IMPROVEMENTS FOR THE ALAMEDA COUNTY ENVIRONMENTAL HEALTH 2ND FLOOR OFFICE. THE WORK INCLUDES SELECTED DEMOLITION AND THE ADDITION OF NEW PARTITIONS, STOREFRONT, FINISHES AND MODIFICATIONS OF EXISTING MECHANICAL, ELECTRICAL, PLUMBING & FIRE PROTECTION SYSTEMS TO APPROXIMATELY 2,547 GROSS SF OF EXISTING SPACE ON THE SECOND FLOOR OF 1131 HARBOR BAY PARKWAY, ALAMEDA, CA 94502.

MATERIAL INDICATION



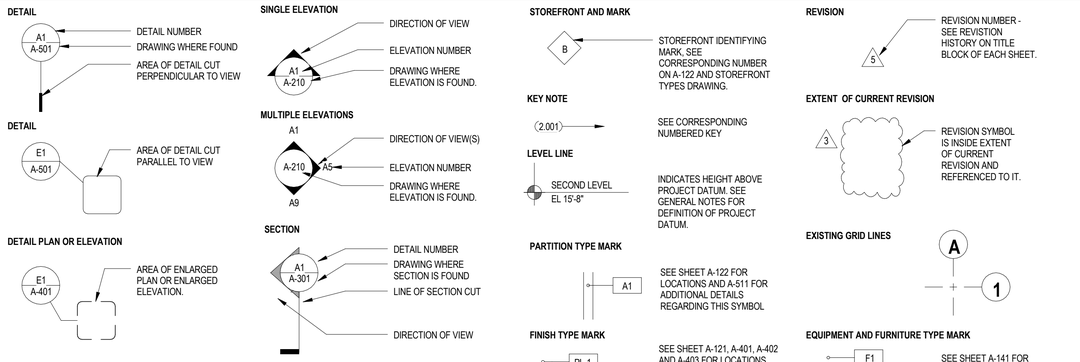
PROJECT TEAM

OWNER:	GERALD LOEPER ALAMEDA COUNTY GENERAL SERVICES AGENCY 1401 LAKESIDE DRIVE, SUITE 1115 OAKLAND, CA 94612
TENANT:	ALAMEDA COUNTY ENVIRONMENTAL HEALTH
ARCHITECT:	MARC BETINOL SHAH KAWASAKI ARCHITECTS 570 10TH STREET, SUITE 201 OAKLAND, CA 94607
MEP ENGINEER:	JONATHAN LARSEN INTERFACE ENGINEERING 135 MAIN STREET, SUITE 400 SAN FRANCISCO, CA 94105
STRUCTURAL ENGINEER:	HOLLY RAZZANO DEGENKOLB ENGINEERS 1300 CLAY STREET, 9TH FLOOR OAKLAND, CA 94612

GENERAL NOTES

1. PRIOR TO BIDDING AND EXECUTION OF WORK THE CONTRACTOR AND SUBCONTRACTORS SHALL VISIT THE SITE AND VERIFY EXISTING CONDITIONS.
2. INFORMATION RELATING TO EXISTING CONDITIONS SHOWN ON DRAWINGS IS BASED ON DATA AVAILABLE TO THE ARCHITECT AT THE TIME OF DESIGN AND VISUAL OBSERVATION. DRAWINGS ARE INTENDED FOR ASSISTANCE AND GUIDANCE AND DO NOT ILLUSTRATE EVERY CONDITION.
3. PROVIDE ALL WORK AND MATERIALS IN ACCORDANCE WITH THE LATEST RULES AND REGULATIONS OF ALL APPLICABLE STATE AND LOCAL CODES, LAWS, ORDINANCES, AND STATUTES, NOTHING IN THESE DRAWINGS IS TO BE CONSTRUED AS REQUIRING OR PERMITTING WORK CONTRARY TO THESE REGULATIONS.
4. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING THE WORK OF ALL TRADES.
5. THE CONTRACTOR SHALL VERIFY THAT NO CONFLICTS EXIST IN THE LOCATION OF ANY AND ALL WORK INCLUDING BUT NOT LIMITED TO MECHANICAL, ELECTRICAL, FIRE PROTECTION, TELEPHONE AND LIGHTING (INCLUDING PIPING, DUCTWORK AND CONDUIT) AND THAT ALL CLEARANCES FOR INSTALLATION AND MAINTENANCE ARE PROVIDED.
6. THE CONTRACTOR SHALL VERIFY ALL AREAS THAT WILL REQUIRE PATCHING AFTER DEMOLITION CONTRACTOR HAS COMPLETED DEMOLITION WORK AND INCLUDE ALL SURFACES THAT WILL REQUIRE REPAIR, PATCHING, ETC. IN THEIR BID.
7. THE CONTRACTOR SHALL VERIFY FIELD CONDITIONS AND NOTIFY THE ARCHITECT OF ANY DISCREPANCIES IN WRITING. THE CONTRACTOR SHALL REVIEW THESE DISCREPANCIES WITH THE ARCHITECT BEFORE PROCEEDING WITH THE WORK.
8. DO NOT SCALE DRAWINGS. DIMENSIONS GOVERN, DETAILS SHALL GOVERN OVER PLANS AND ELEVATIONS. LARGE SCALE DETAILS GOVERN OVER SMALL SCALE DETAILS.
9. "TYPICAL" (TYP.) MEANS IDENTICAL FOR ALL SIMILAR LOCATIONS.
10. "SIMILAR" (SIM.) MEANS COMPARABLE CHARACTERISTICS FOR THE CONDITION NOTED. VERIFY DIMENSIONS AND ORIENTATION WITH DRAWINGS.
11. THE CONTRACTOR SHALL ASSIST IN THE COORDINATION OF "NIC." ITEMS INCLUDING FURNITURE INSTALLATION, EQUIPMENT INSTALLATION, TELEPHONE WORK, ETC.
12. VERTICAL DIMENSIONS ARE MEASURED FROM TOP OF SLAB UNLESS OTHERWISE NOTED. PLAN DIMENSIONS ARE TO FACE OF FINISH UON.
13. ALL PARTITIONING OF CEILINGS SHALL BE BRACED IN COMPLIANCE WITH THE REQUIREMENTS OF ALL APPLICABLE SEISMIC AND BUILDING CODES.

ARCHITECTURAL SYMBOLS



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NO.	DATE	ISSUE DESCRIPTION
	12/9/16	COUNTY REVIEW SET
	12/16/16	100% CONSTRUCTION DOCUMENTS

ENVIRONMENTAL HEALTH OFFICE REMODEL

1131 HARBOR BAY PARKWAY,
ALAMEDA, CA 94502

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ARCHITECTS
570 10th Street, Suite 201
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Consultant

LICENSED ARCHITECT
PHILIP SHENG-I LIN
C 29075
REN. 12-31-17
STATE OF CALIFORNIA

Drawing Title
COVER SHEET

Drawing No.
A-001

SKA Project Number: 16715

Alameda County Project Number: 14028

CODE SUMMARY

APPLICABLE CODES

CALIFORNIA BUILDING STANDARDS CODE, TITLE 24, CALIFORNIA CODE OF REGULATION (CCR)
2016 CALIFORNIA BUILDING STANDARDS ADMINISTRATIVE CODE
2016 CALIFORNIA BUILDING CODE VOLUME 1 AND 2
2016 CALIFORNIA ELECTRICAL CODE
2016 CALIFORNIA MECHANICAL CODE
2016 CALIFORNIA PLUMBING CODE
2016 CALIFORNIA ENERGY CODE
2016 CALIFORNIA FIRE CODE
2016 CALIFORNIA GREEN BUILDING STANDARDS CODE
2016 CALIFORNIA REFERENCE STANDARDS CODE
NATIONAL FIRE PROTECTION ASSOCIATION, NATIONAL FIRE ALARM AND SIGNALING CODE (NFPA 72)

ALL SECTION REFERENCES ON THIS SHEET ARE 2016 CALIFORNIA BUILDING CODE (CBC), PART 2 UON

CHAPTER 3 USE AND OCCUPANCY CLASSIFICATIONS

304.1 BUSINESS GROUP B

CHAPTER 5 GENERAL BUILDING HEIGHTS AND AREA

BUILDING USE	GROUP B
TYPE OF CONSTRUCTION	TYPE V-B

CHAPTER 6 TYPES OF CONSTRUCTION

TABLE 601 FIRE-RESISTANCE RATING REQUIREMENTS FOR BUILDINGS ELEMENTS (HOURS)

BUILDING ELEMENT	TYPE V-B
BEARING WALLS	
EXTERIOR	0
INTERIOR	0
NONBEARING WALLS AND PARTITIONS	
EXTERIOR	SEE TABLE 602
INTERIOR	0
FLOOR CONSTRUCTION AND ASSOCIATED SECONDARY MEMBERS	0
ROOF CONSTRUCTION AND ASSOCIATED SECONDARY MEMBERS	0

TABLE 602 FIRE-RESISTANCE RATING REQUIREMENTS FOR EXTERIOR WALLS BASED ON FIRE SEPARATION DISTANCE

FIRE SEPARATION DISTANCE	TYPE V-B, OCCUPANCY B
X < 5'	1
5 <= X < 10	1
10 <= X < 30	0
X >= 30	0

CHAPTER 9 FIRE PROTECTION SYSTEMS

FIRE PROTECTION SYSTEM:	FULLY SPRINKLERED
TRAVEL DISTANCE TO A FIRE EXTINGUISHER	75 FT MAX

CHAPTER 10 MEANS OF EGRESS

TABLE 1004.1.2 MAXIMUM FLOOR AREA ALLOWANCES PER OCCUPANT

FUNCTION OF SPACE	AREA (SF)	OCCUPANT LOAD FACTOR	MAX OCCUPANT LOAD
BUSINESS OFFICE	24,207	100	242

TABLE 1018.1 CORRIDOR FIRE-RESISTANCE RATING

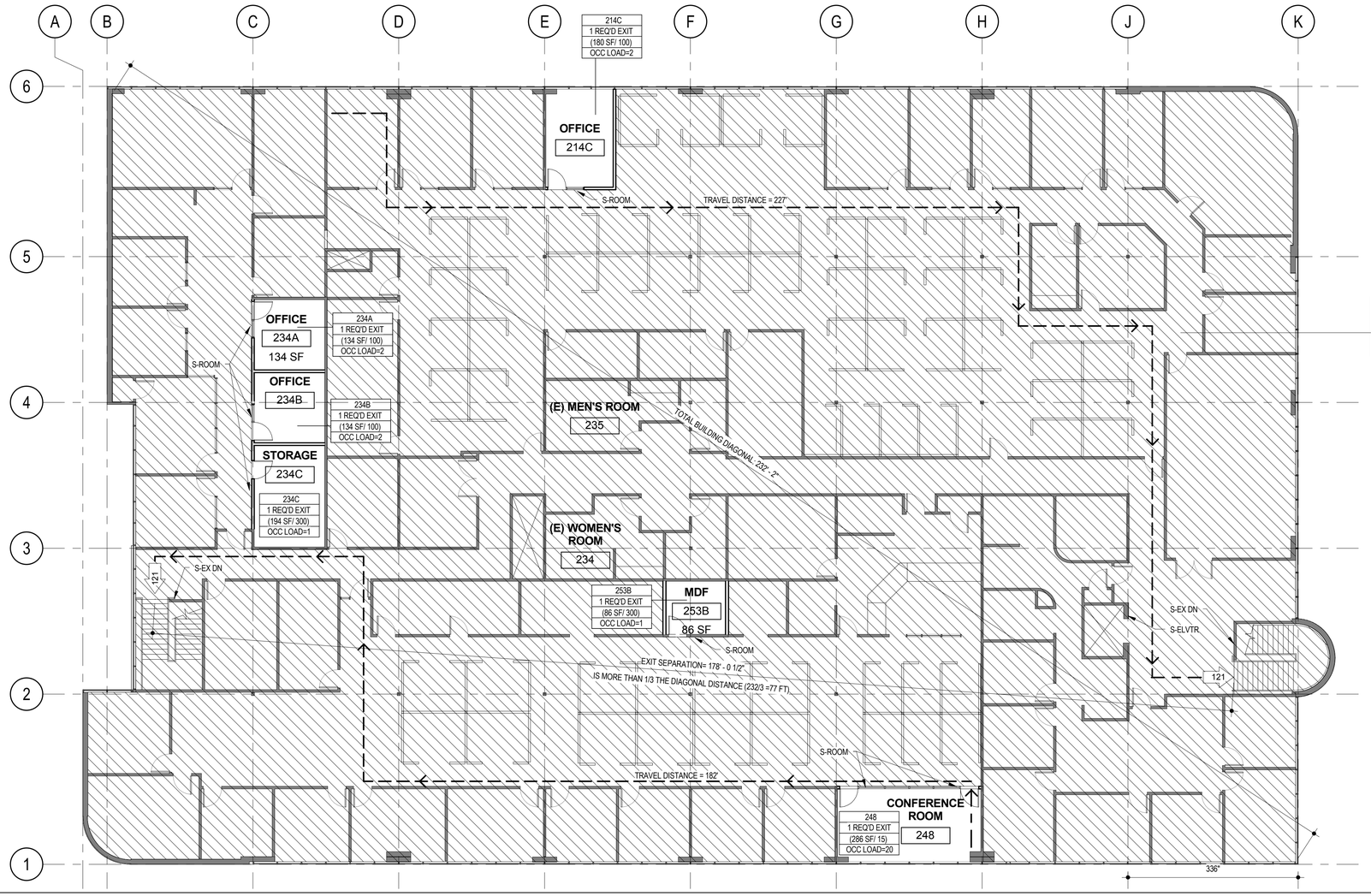
RATED CORRIDORS ARE NOT REQUIRED IN GROUP B OCCUPANCY BUILDINGS PROVIDED WITH SPRINKLER SYSTEM. HOWEVER, THE (E) CORRIDORS ARE 1-HR RATED, AND ANY (N) WALLS TO BE BUILT IN THE CORRIDOR SHOULD BE 1-HR RATED.

OCCUPANCY	OCCUPANT LOAD SERVED BY CORRIDOR	REQUIRED FIRE-RESISTANCE RATING WITH SPRINKLER SYSTEM
A, B, E, F, M, S, U	GREATER THAN 30	0

COMMON PATH OF EGRESS TRAVEL:	100 FT MAX WITH SPRINKLER SYSTEM
TRAVEL DISTANCE:	300 FT MAX WITH SPRINKLER SYSTEM
LENGTH OF DEAD-END CORRIDOR:	50 FT MAX WITH SPRINKLER SYSTEM
REQUIRED NUMBER OF EXITS	2

CHAPTER 11 ACCESSIBILITY

ALL AREAS WITHIN THE PROJECT SCOPE WILL COMPLY WITH ALL ACCESSIBILITY PROVISIONS REQUIRED BY CHAPTER 11B OF THE CBC. ACCESSIBILITY COMPLIANCE FOR PARTS OF THE BUILDING OUTSIDE THE PROJECT SCOPE WILL BE DONE UNDER A PROGRAM SET FORTH BY THE COUNTY OF ALAMEDA THAT ENSURES ACCESSIBILITY UPGRADES OF MULTIPLE BUILDINGS IN THE COUNTY, INCLUDING THE ENVIRONMENTAL HEALTH BUILDING.



LEGEND

15X / #	ROOM NUMBER / MIN. NUMBER OF REQ EXITS
SF/100 / #	AREA DIVIDED BY LOAD FACTOR / MAX. OCCUPANT LOAD
#	OCCUPANT EXIT LOAD
	(E) WALL TO REMAIN
	(N) WALL OR PARTITION
	EGRESS PATH
	FLOOR AREA OUTSIDE OF PROJECT BOUNDARY

SIGN SCHEDULE

SEE A-003 FOR SIGNAGE DETAILS

S-EX DN	EXIT STAIR DOWN
S-ELVTR	TACTILE ELEVATOR IDENTIFICATION
S-ROOM	PERMANENT ROOM IDENTIFICATION

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LICENSED ARCHITECT — PHILIP SHENG-YI LOO — C 29075 — REN. 12-31-17 — STATE OF CALIFORNIA

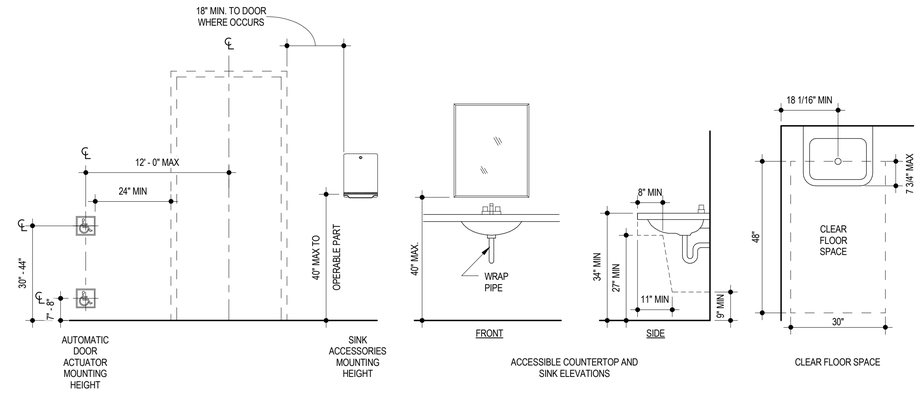
Drawing Title: **CODE DIAGRAM**

Drawing No.: **A-002**

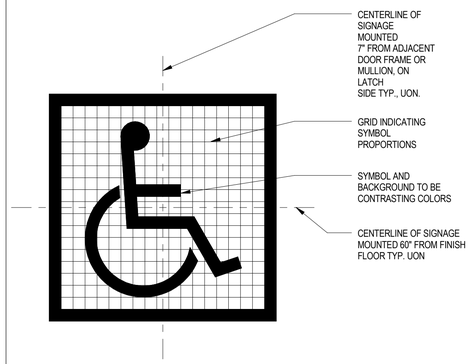
SKA Project Number: 16715

Alameda County Project Number: 14028

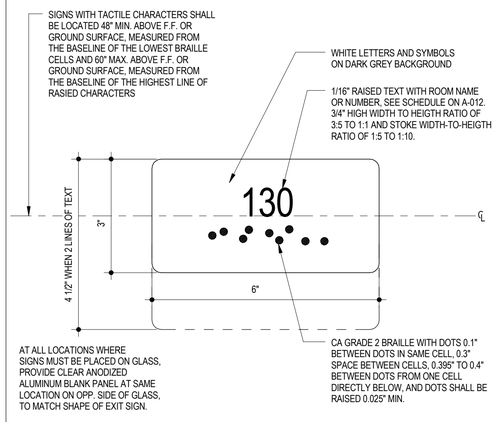
ENVIR HEALTH FLOOR PLAN CODE DIAGRAM | A1 | 3/32" = 1'-0"



TYPICAL ACCESSIBLE CLEARANCES AND MOUNTING HEIGHTS — J5 — N.T.S.

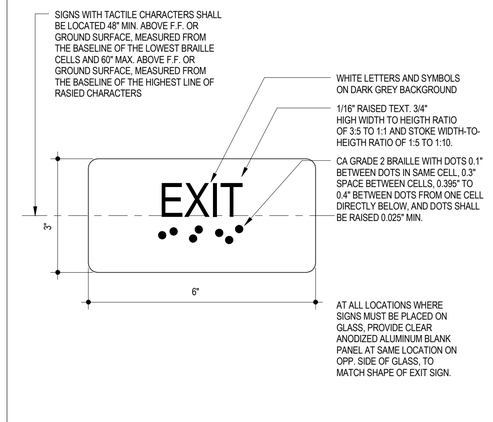


INTERNATIONAL SYMBOL OF ACCESSIBILITY — J1 — N.T.S.



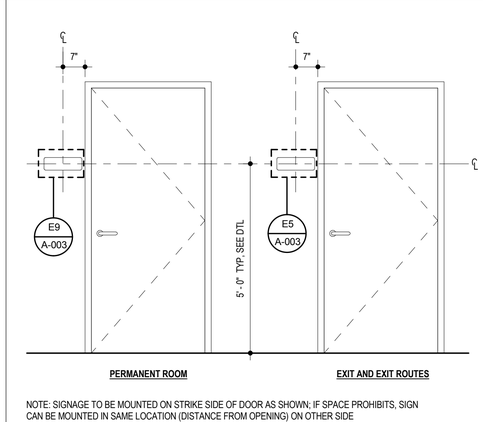
PERMANENT ROOM IDENTIFICATION SIGN (S-ROOM) — E9 — N.T.S.

RE: E1/ A-003



EXIT (S-EXIT) AND EXIT STAIR DOWN (S-EX DN) SIGN — E5 — N.T.S.

RE: E1/ A-003



NOTE: SIGNAGE TO BE MOUNTED ON STRIKE SIDE OF DOOR AS SHOWN; IF SPACE PROHIBITS, SIGN CAN BE MOUNTED IN SAME LOCATION (DISTANCE FROM OPENING) ON OTHER SIDE

TYPICAL SIGNAGE MOUNTING LOCATION — E1 — N.T.S.

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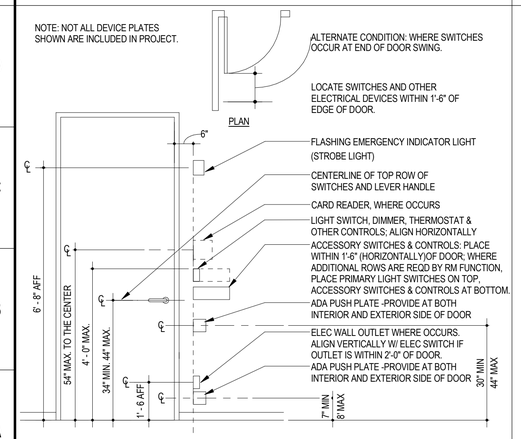
LICENSED ARCHITECT PHILIP SHENG-YI LOO C 29075 REN. 12-31-17 STATE OF CALIFORNIA

Drawing Title
CODE DETAILS

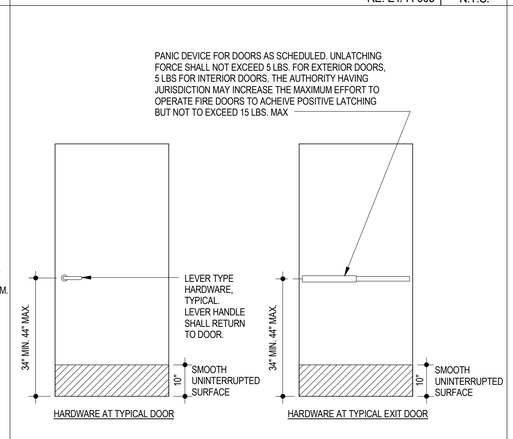
Drawing No.
A-003

SKA Project Number: 16715

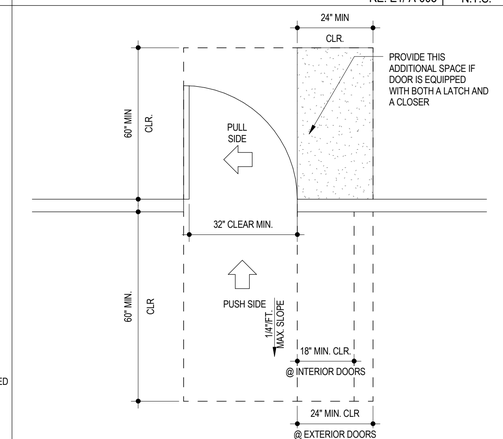
Alameda County Project Number: 14028



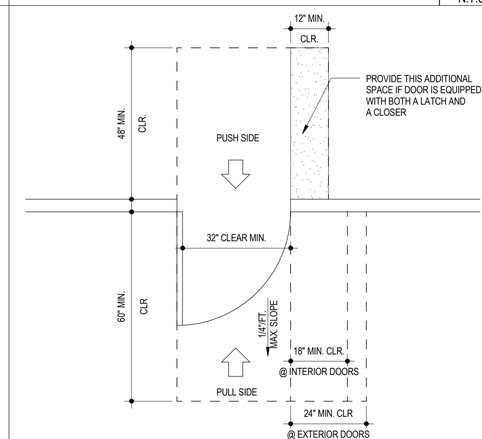
DEVICE PLATE LOCATIONS — A13 — N.T.S.



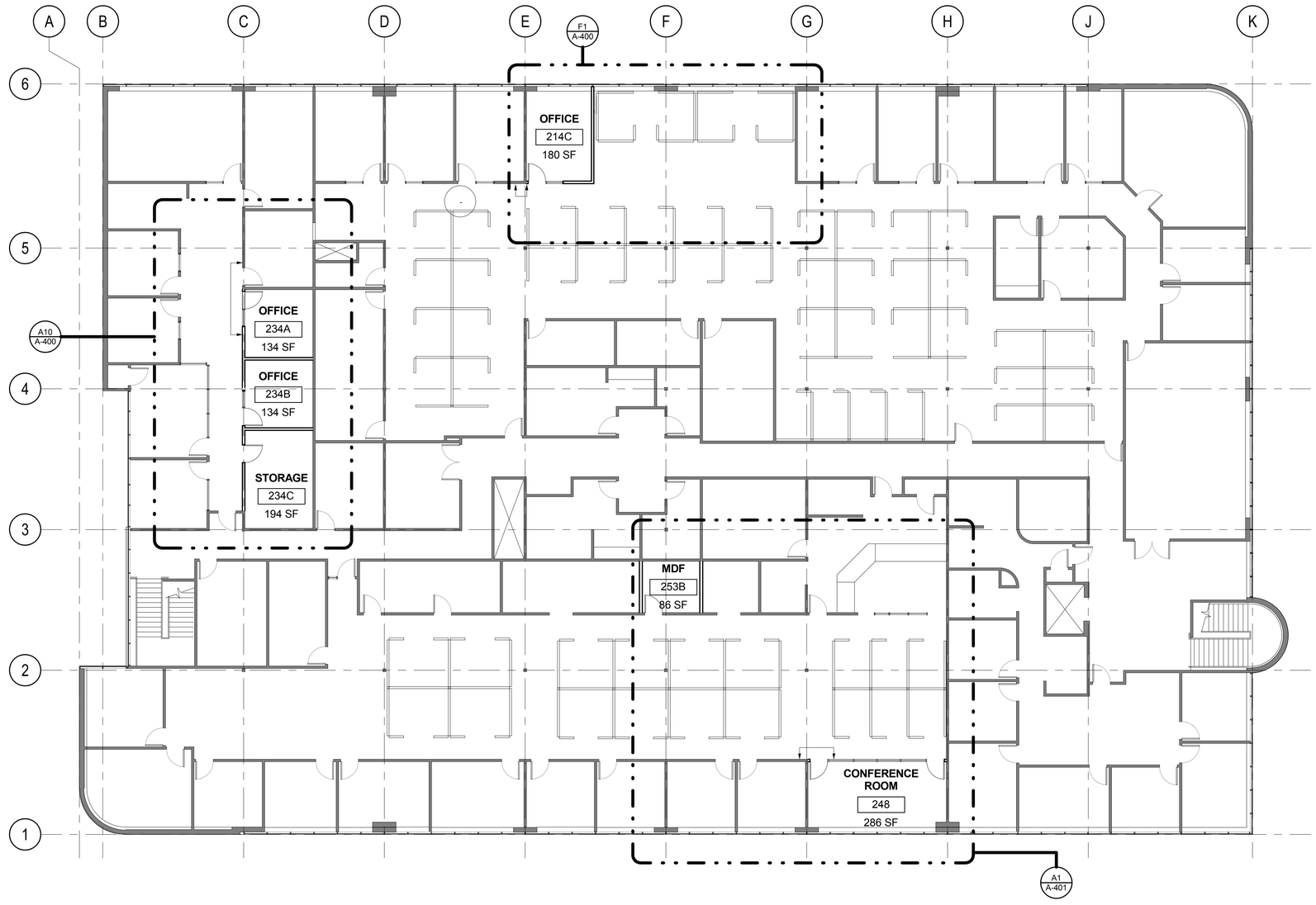
MOUNTING LOCATIONS OF HARDWARE AT DOORS — A9 — N.T.S.



DOOR MANEUVERING CLEARANCE SIDE APPROACH — A5 — N.T.S.



DOOR MANEUVERING CLEARANCE FRONT APPROACH — A1 — N.T.S.



PROJECT NORTH

FLOOR PLAN | A1 | 3/32" = 1'-0"

SHEET NOTES

1. PATCH AND SEAL WITH ACOUSTIC SEALANT (E) PARTITIONS AS REQUIRED TO MAINTAIN ACOUSTICAL SEPARATION.

2. MAINTAIN FIRE-RATING AT (E) 1-HR FIRE RATED PARTITIONS. SEAL PERIMETER OF WALL, TOP AND BOTTOM OF GYP BD, AND ALL PENETRATIONS WITH FIRE-RATED SEALANT.

3. DOOR OPENING TO BE LOCATED FOUR-INCHES AWAY FROM THE HINGE-SIDE WALL TYPICAL UON.

4. SEE A-511 FOR TYPICAL PARTITION WALL DETAILS

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Drawing Title
OVERALL FLOOR PLAN

Drawing No.
A-121

SKA Project Number: 16715

Alameda County Project Number: 14028

PROJECT NORTH

REFLECTED CEILING PLAN 1

3/32" = 1'-0"

SHEET NOTES

1. CASEWORK, FURNITURE AND EQUIPMENT BELOW CEILING IS SHOWN AS DASHED LINES.
2. TYP CLG HEIGHT AT 9' - 0" AFF, UON
3. SEE A-512 FOR TYPICAL CEILING DETAILS
4. SEE MECHANICAL & ELECTRICAL DWGS FOR ADDITIONAL INFO

LEGEND

- (E) EXISTING LIGHT FIXTURE (N) NEW LIGHT FIXTURE
- (E) SUSPENDED ACOUSTIC CEILING TILE (2' X 2')
- (E) SUPPLY DIFFUSER
- (E) EXHAUST GRILLE
- (N) SMOKE DETECTOR
- (N) AUDIO/VISUAL FIRE ALARM
- FS (E) FIRE SPRINKLER HEAD

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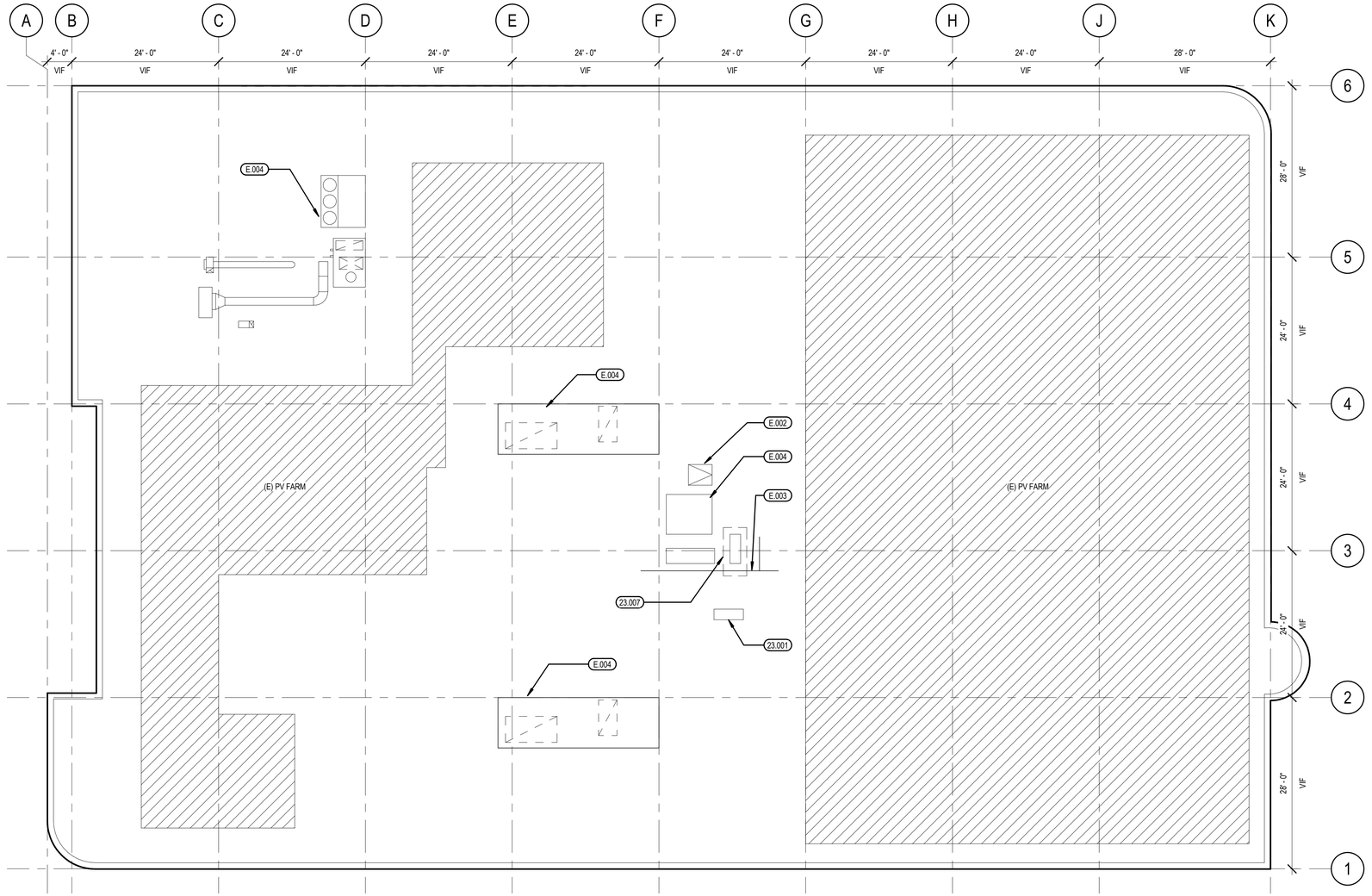
LICENSED ARCHITECT
PHILIP SHENG-YI LOU
C 29075
REN. 12-31-17
STATE OF CALIFORNIA

Drawing Title
OVERALL REFLECTED CEILING PLAN

Drawing No. **A-131**

SKA Project Number: 16715

Alameda County Project Number: 14028



PROJECT NORTH

BUILDING ROOF PLAN | A1 | 3/32" = 1'-0"

SHEET NOTES

1. THE COUNTY HAS DETERMINED THAT ASBESTOS HAS BEEN FOUND IN ROOFING MATERIALS IN THIS BUILDING. THE GENERAL CONTRACTOR MUST NOTIFY THE COUNTY PRIOR TO MAKING ANY ROOF MODIFICATIONS OR PENETRATIONS. THE COUNTY WILL PROVIDE INSTRUCTIONS FOR THIS WORK. SEE SPECS SECTION 00 73 56.

3. SEE ROOF FLASHING DETAILS ON SHEET A-501.

KEY NOTES

23.001	(N) MECH EQUIP, SMD. COORDINATE FINAL LOCATION TO AVOID ASBESTOS HOT SPOTS.ROUTE REFRIGERANT PIPING DOWN TO MDF BELOW. AVOID ALL ASBESTOS HOT SPOTS. SEE DETAIL E13/A512 FOR ROOF FLASHING DETAIL AT EQUIPMENT SUPPORT
23.007	ADD ALTERNATE: REMOVE AND REPLACE (E) CONDENSER UNIT WITH LARGER CAPACITY UNIT TO SERVICE BOTH MDF FCUS, SMD
E.002	(E) ROOF HATCH
E.003	(E) CONDUIT
E.004	(E) MECH EQUIPMENT

NOTE: If this drawing is not 34"x22" it has been revised from its original size and the scales noted on drawing/details are no longer applicable.

NO.	DATE	ISSUE DESCRIPTION
	12/9/16	COUNTY REVIEW SET
	12/16/16	100% CONSTRUCTION DOCUMENTS

ENVIRONMENTAL HEALTH OFFICE REMODEL

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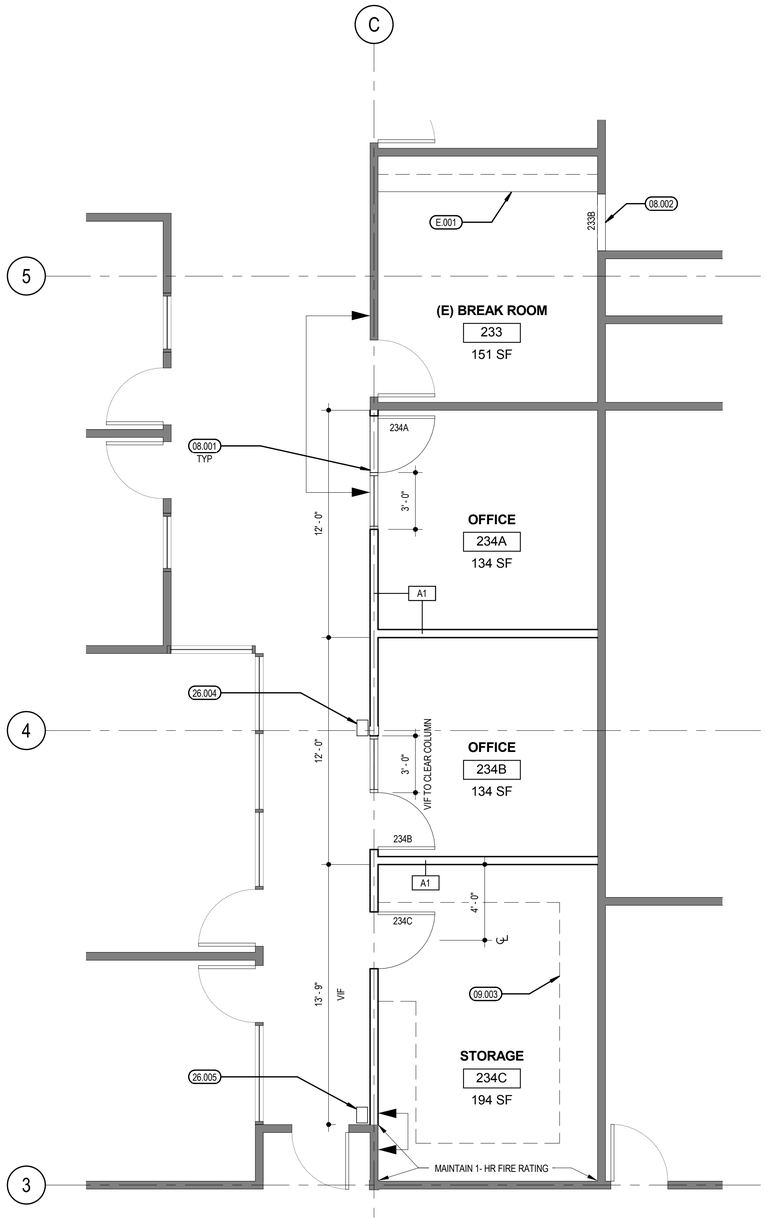
STATE OF CALIFORNIA

Drawing Title
BUILDING ROOF PLAN

Drawing No.
A-141

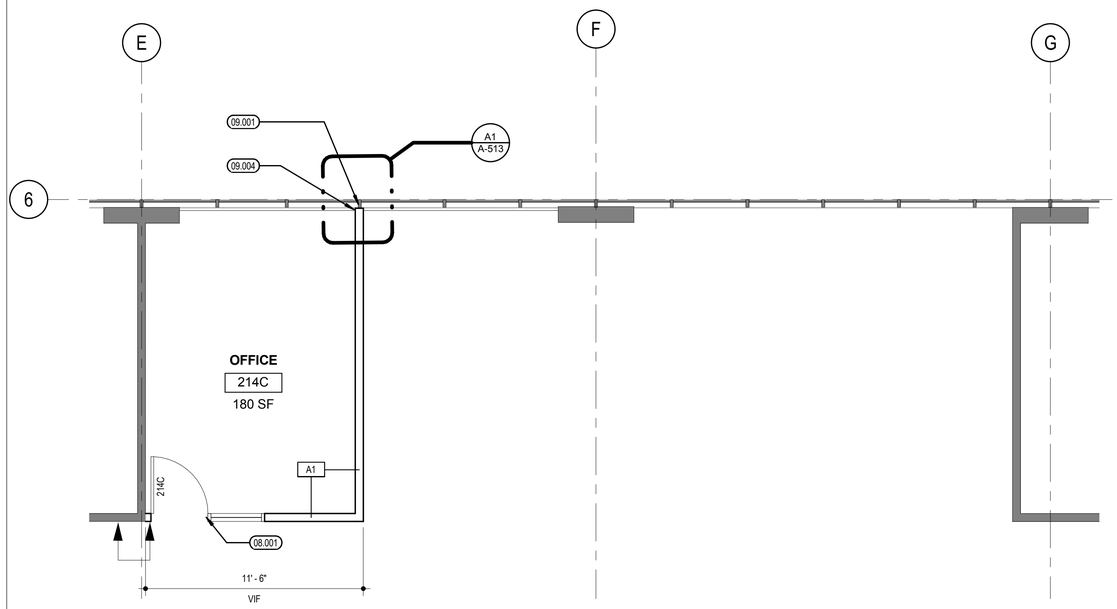
SKA Project Number: 16715

Alameda County Project Number: 14028



ENLARGED OFFICES + STORAGE PLAN | A10

RE: A1/ A-121 | 1/4" = 1'-0"



ENLARGED OFFICE 214 PLAN | F1

RE: A1/ A-121 | 1/4" = 1'-0"

PROJECT NORTH

SHEET NOTES

1. PATCH AND SEAL WITH ACOUSTIC SEALANT (E) PARTITIONS AS REQUIRED TO MAINTAIN ACOUSTICAL SEPARATION.

2. MAINTAIN FIRE-RATING AT (E) 1-HR FIRE RATED PARTITIONS. SEAL PERIMETER OF WALL, TOP AND BOTTOM OF GYP BD, AND ALL PENETRATIONS WITH FIRE-RATED SEALANT.

3. DOOR OPENING TO BE LOCATED FOUR-INCHES AWAY FROM THE HINGE-SIDE WALL TYPICAL UON.

4. SEE A-511 FOR TYPICAL PARTITION WALL DETAILS

LEGEND

- (E) WALL, TO REMAIN
- (N) WALL OR PARTITION; PROVIDE INSULATION. SEE A-511 FOR ACOUSTIC OR THERMAL.
- A1 — WALL TYPE, SEE A-511
- ALIGN

KEY NOTES

08.001	(N) 3'-0" X 8'-10" DOOR & SIDE LIGHT. MATCH EXISTING (VIF) TYP
08.002	(N) 3'-0" X 8-10" CASED OPENING. CONTRACTOR TO VIF W/ OWNER PRIOR TO DEMO. RELOCATE EXISTING OUTLETS AFFECTED BY WALL DEMOLITION AS SHOWN ON ELECTRICAL DRAWINGS
09.001	CONNECT(N) WALL TO (E) 3RD MULLION, SEE DETAIL A1/A513.
09.003	STORAGE SHELVING (OFCI). INSTALL BACKING PER DETAIL AS/A-511 TYPE C BACKING PLATE. CONNECT SHELVING TO BACKING W/ (2) #10S @ 24" OC MAX AND (2) #10S AT EACH STUD.
09.004	STAGGER (N) WALL FRAMING AND JOG (N) GWB TO ALLOW PASS THROUGH OF EXISTING WIRE MOLD.
26.004	RELOCATE EXISTING COLUMN MOUNTED SPEAKER FROM THE NEW OFFICE TO THE CORRIDOR IMMEDIATELY OUTSIDE NEW ROOM 234B. SEE DETAIL J13-A511 FOR COLUMN WRAP DETAIL
26.005	RELOCATE EXISTING WALL MOUNTED SECURITY SENSOR FROM THE NEW STORAGE ROOM TO THE CORRIDOR IMMEDIATELY OUTSIDE THIS ROOM
E.001	(E) COUNTERS AND CASEWORK TO REMAIN

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ENVIRONMENTAL HEALTH OFFICE REMODEL

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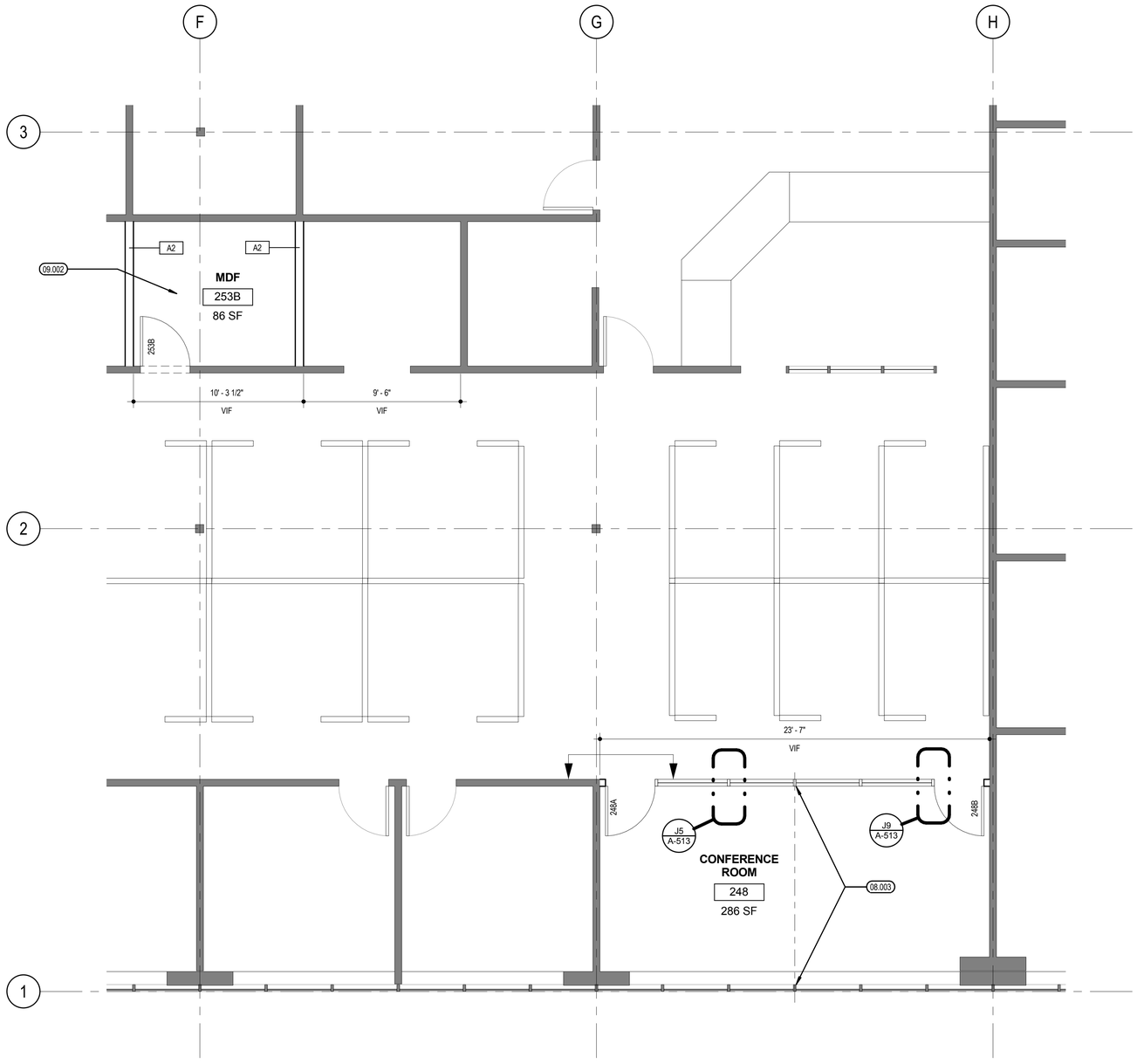
STATE OF CALIFORNIA

Drawing Title
ENLARGED PLANS

Drawing No.
A-400

SKA Project Number: 16715

Alameda County Project Number: 14028



SHEET NOTES

1. PATCH AND SEAL WITH ACOUSTIC SEALANT (E) PARTITIONS AS REQUIRED TO MAINTAIN ACOUSTICAL SEPARATION.

2. MAINTAIN FIRE-RATING AT (E) 1-HR FIRE RATED PARTITIONS. SEAL PERIMETER OF WALL, TOP AND BOTTOM OF GYP BD, AND ALL PENETRATIONS WITH FIRE-RATED SEALANT.

3. DOOR OPENING TO BE LOCATED FOUR-INCHES AWAY FROM THE HINGE-SIDE WALL TYPICAL UON.

4. SEE A-511 FOR TYPICAL PARTITION WALL DETAILS

LEGEND

- (E) WALL, TO REMAIN
- (N) WALL OR PARTITION; PROVIDE INSULATION. SEE A-511 FOR ACOUSTIC OR THERMAL
- A1 — WALL TYPE, SEE A-511
- ALIGN

KEY NOTES

08.003 (N) FULL HEIGHT INTERIOR STOREFRONT SYSTEM. ALIGN MIDDLE THREE MULLIONS W/ MULLIONS ON EXTERIOR WINDOW WALL SYSTEM

09.002 STATIC DISSIPATIVE TILE (OFCI)

PROJECT NORTH

ENLARGED CONFERENCE ROOM + MDF PLAN | A1

RE: A1/ A-121 | 1/4" = 1'-0"

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NO.	DATE	ISSUE DESCRIPTION
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	12/16/16	100% CONSTRUCTION DOCUMENTS

ENVIRONMENTAL HEALTH OFFICE REMODEL

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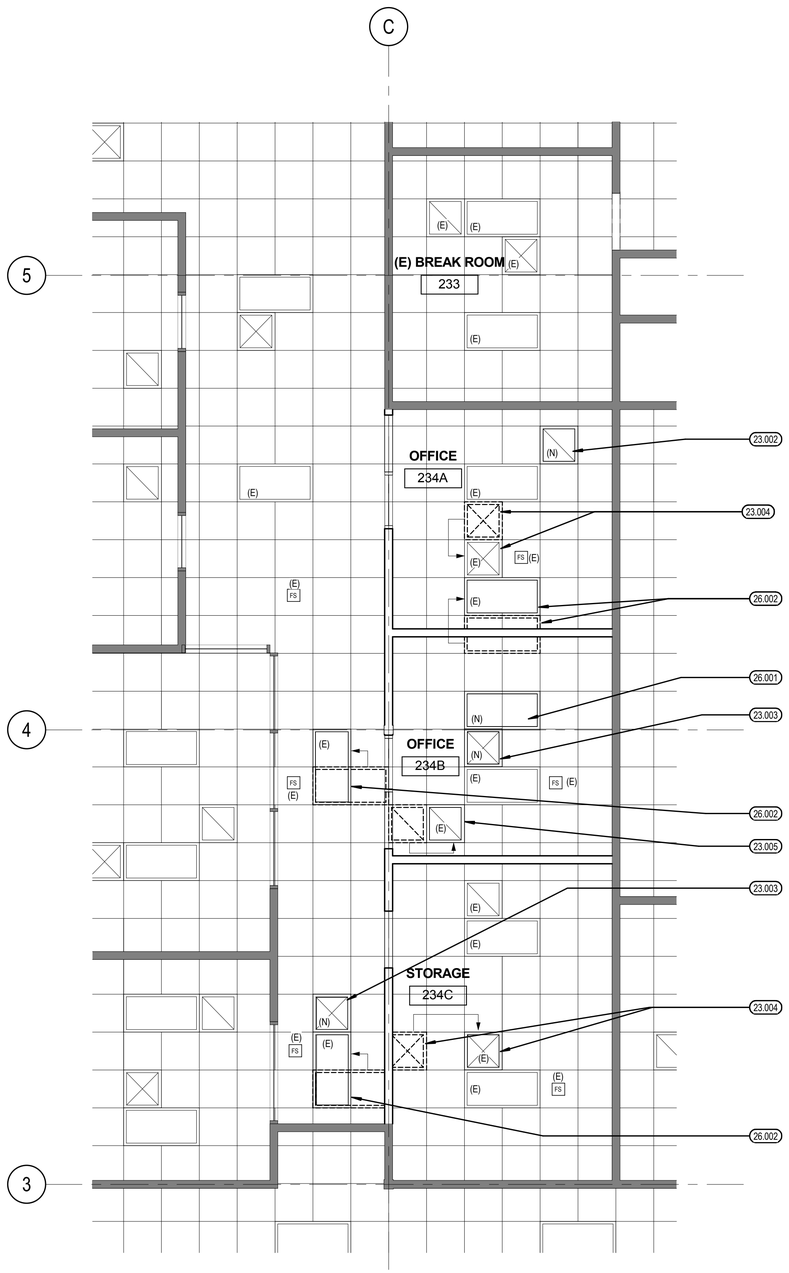
STATE OF CALIFORNIA

Drawing Title
ENLARGED PLANS

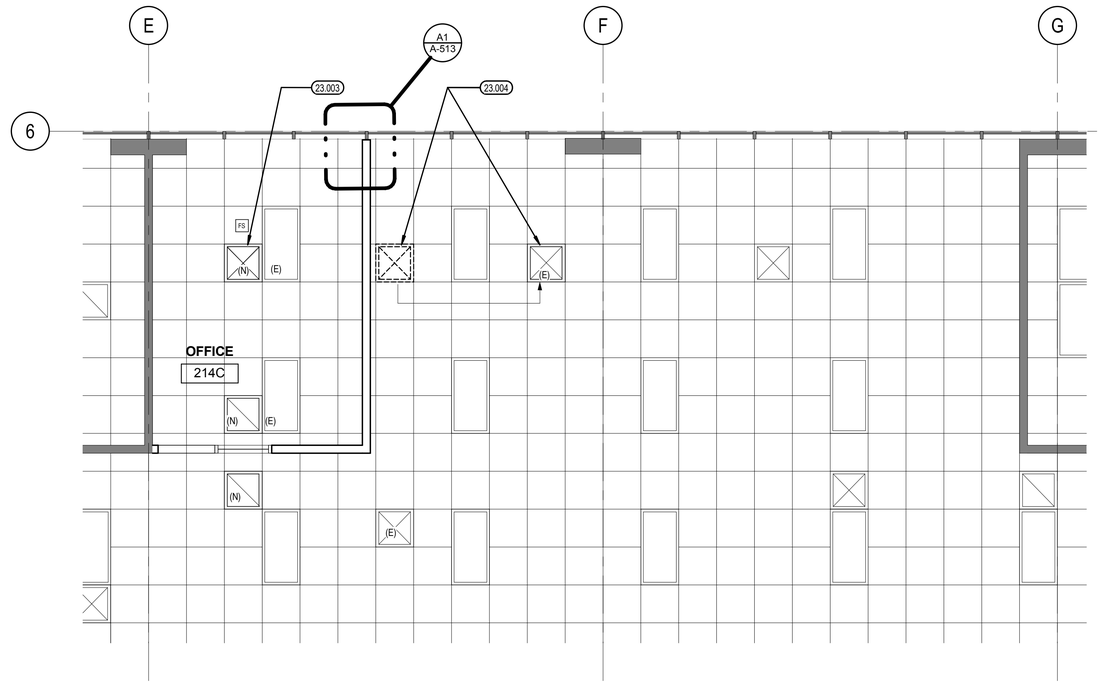
Drawing No.
A-401

SKA Project Number: 16715

Alameda County Project Number: 14028



ENLARGED OFFICES + STORAGE RCP | A10
RE: 1/ A-131 | 1/4" = 1'-0"



ENLARGED OFFICE 214 RCP | F1
RE: 1/ A-131 | 1/4" = 1'-0"

PROJECT NORTH

SHEET NOTES

1. CASEWORK, FURNITURE AND EQUIPMENT BELOW CEILING IS SHOWN AS DASHED LINES.
2. TYP CLG HEIGHT AT 9' - 0" AFF, UON
3. SEE A-512 FOR TYPICAL CEILING DETAILS
4. SEE MECHANICAL & ELECTRICAL DWGS FOR ADDITIONAL INFO

LEGEND

- (E) EXISTING LIGHT FIXTURE / (N) NEW LIGHT FIXTURE
- (E) SUSPENDED ACOUSTIC CEILING TILE (2' X 2')
- (E) SUPPLY DIFFUSER
- (E) EXHAUST GRILLE
- (N) SMOKE DETECTOR
- (N) AUDIO/VISUAL FIRE ALARM
- FS (E) FIRE SPRINKLER HEAD

KEY NOTES

23.002	(N) RETURN AIR REGISTER, MATCH EXISTING, SMD
23.003	(N) SUPPLY AIR REGISTER, MACH EXISTING, SMD
23.004	RELOCATE (E) SUPPLY AIR REGISTER. RELOCATE AND/OR REPLACE ANY DAMAGED ACT AS REQUIRED. SMD FOR EXACT LOCATIONS
23.005	RELOCATE (E) RETURN AIR REGISTER. RELOCATE AND/OR REPLACE ANY DAMAGED ACT AS REQUIRED. SMD FOR EXACT LOCATIONS
26.001	(N) 2'X4' RECESSED LAY IN LIGHT FIXTURE, MATCH EXISTING. SED
26.002	ROTATE AND/OR RELOCATE (E) LIGHT. RELOCATE AND/OR REPLACE ANY DAMAGED ACT AS REQUIRED. SED FOR EXACT LOCATIONS

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	12/16/16	100% CONSTRUCTION DOCUMENTS

ENVIRONMENTAL HEALTH OFFICE REMODEL

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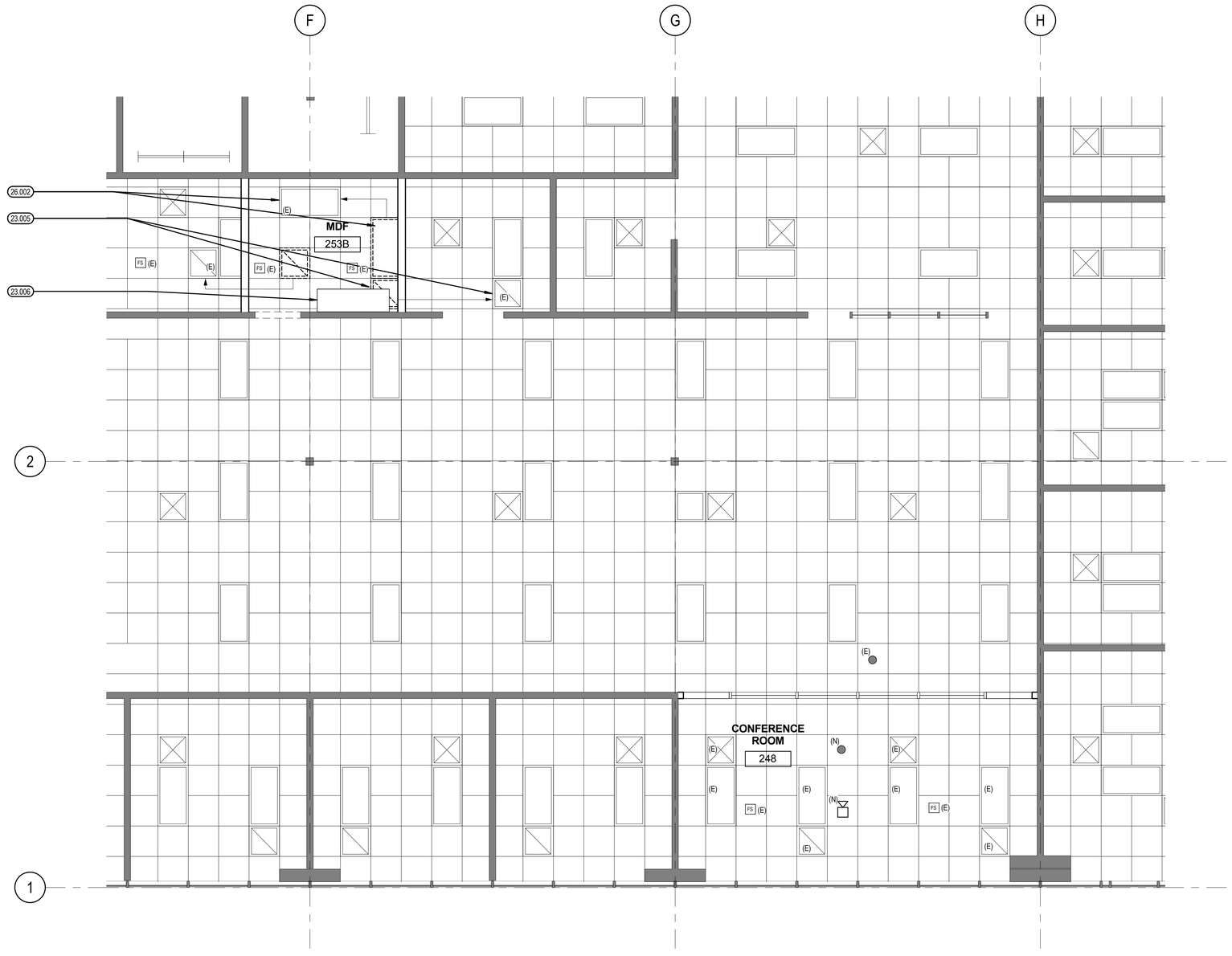
Drawing Title
ENLARGED RCP

Drawing No.
A-402

SKA Project Number: 16715

Alameda County Project Number: 14028



SHEET NOTES

1. CASEWORK, FURNITURE AND EQUIPMENT BELOW CEILING IS SHOWN AS DASHED LINES.
2. TYP CLG HEIGHT AT 9' - 0" AFF, UON
3. SEE A-512 FOR TYPICAL CEILING DETAILS
4. SEE MECHANICAL & ELECTRICAL DWGS FOR ADDITIONAL INFO

LEGEND

- (E) EXISTING LIGHT FIXTURE / (N) NEW LIGHT FIXTURE
- (E) SUSPENDED ACOUSTIC CEILING TILE (2' X 2')
- (E) SUPPLY DIFFUSER
- (E) EXHAUST GRILLE
- (N) SMOKE DETECTOR
- (N) AUDIO/VISUAL FIRE ALARM
- FS (E) FIRE SPRINKLER HEAD

KEY NOTES

23.005	RELOCATE (E) RETURN AIR REGISTER. RELOCATE AND/OR REPLACE ANY DAMAGED ACT AS REQUIRED. SMD FOR EXACT LOCATIONS
23.006	(N) FCU, SMD
26.002	ROTATE AND/OR RELOCATE (E) LIGHT. RELOCATE AND/OR REPLACE ANY DAMAGED ACT AS REQUIRED. SED FOR EXACT LOCATIONS

PROJECT NORTH

ENLARGED CONFERENCE ROOM + MDF RCP | A1
RE: 1/ A-131 | 1/4" = 1'-0"

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	12/9/16	COUNTY REVIEW SET
	12/16/16	100% CONSTRUCTION DOCUMENTS

ENVIRONMENTAL HEALTH OFFICE REMODEL

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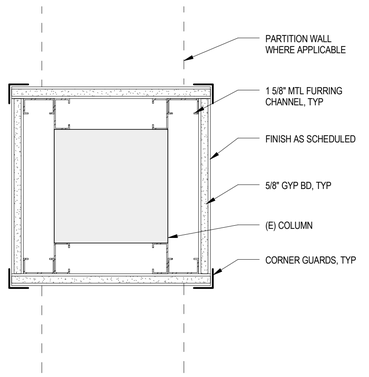
REN. 12-31-17
STATE OF CALIFORNIA

Drawing Title
ENLARGED RCP

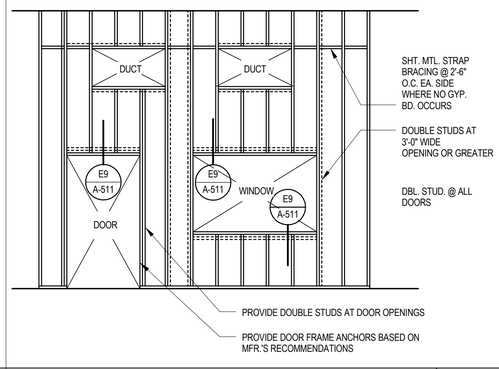
Drawing No.
A-403

SKA Project Number: 16715

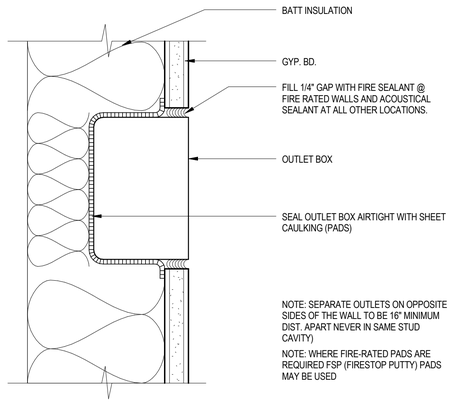
Alameda County Project Number: 14028



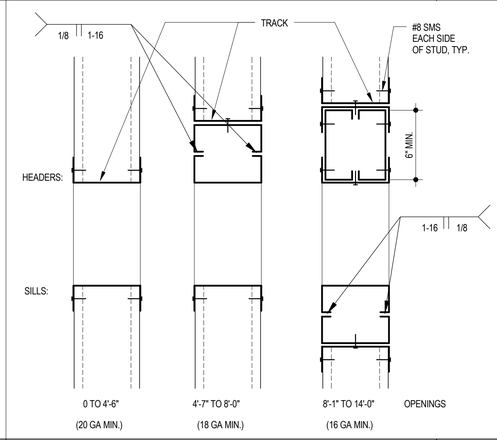
(E) COLUMN WITH (N) FURRING — J13
3" = 1'-0"



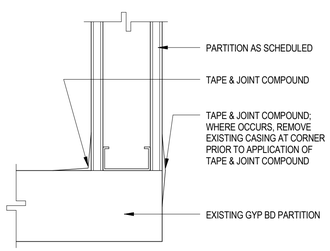
WALL FRAMING DIAGRAM — J9
1/4" = 1'-0"



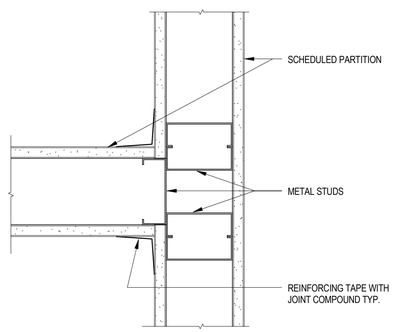
WALL OUTLET TREATMENT — E13
6" = 1'-0"



WALL HEAD FRAMING DIAGRAM — E9
3" = 1'-0"

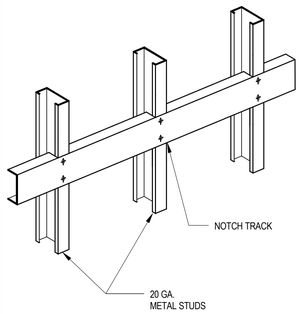


PLAN DETAIL OF (N) WALL AT (E) CONSTRUCTION — A13
3" = 1'-0"



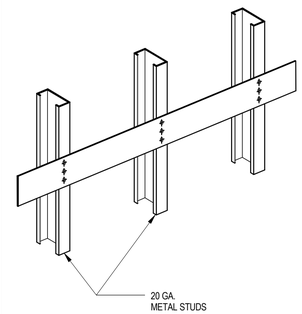
PLAN DETAIL AT TYP WALL INTERSECTION — A9
3" = 1'-0"

TYPE 'C' BACKING PLATE (FOR HEAVY STORAGE SHELVING)



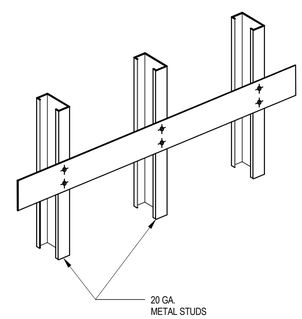
1. CALCULATED TO BE ACCEPTABLE FOR 1'-6" DEEP X 7'-0" TALL STORAGE ROOM SHELVING @ 25 LBS PER CUBIC FT, MAX 265 PLF DEAD LOAD. ALSO APPLICABLE FOR ALL UPPER WALL-HUNG CABINETS, GRAB BARS, RUB RAILS, HAND RAILS, WALL-MOUNTED EQUIP & MISC. ITEMS WEIGHING LESS THAN 200 LBS./LIN. FOOT. REINFORCEMENTS FOR GRAB BARS SHALL BE ABLE TO SUPPORT A MIN. OF 250 LBS. TOTAL
2. FASTEN 600T125-43 NOTCHED METAL TRACK TO EA STUD W/ (3) #12 SHEET METAL SCREWS WITH 14 THREADS PER INCH AT EACH END, TIP SIZE T1
3. SEE PARTITION TYPES FOR STUD SIZE.

TYPE 'B' BACKING PLATE



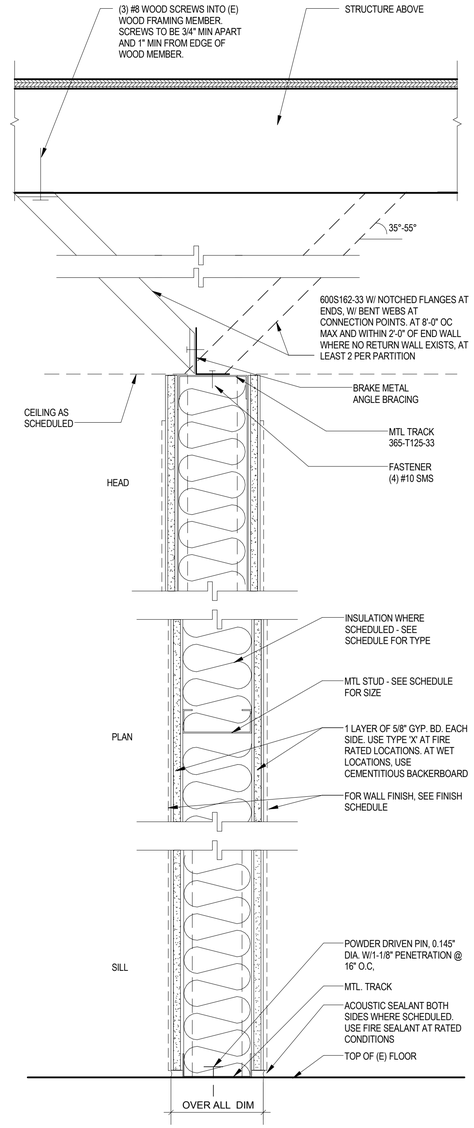
1. FOR BASE CABINETS, FULL HEIGHT CABINETS, LOCKERS, ET CETERA,WEIGHING LESS THAN 100 LBS/LF
2. SEE PARTITION TYPES FOR STUD SIZE.
3. VERIFY LENGTH, HEIGHT, LOCATION, & QUANTITY OF BACKING PLATES REQ'D WITH APPROPRIATE MANUFACTURERS & TRADES
4. FASTEN 14 GA X 6" STRAP P_L TO EA STUD W/ (3) #12 SHEET METAL SCREWS.
5. SPAN BACKING PLATE OVER 3 STUDS MIN.
6. ATTACH ITEMS TO BACKING PLATE WITH #12 SELF-TAPPING SHEET METAL SCREWS, U.O.N.

TYPE 'A' BACKING PLATE



1. FOR MISC ITEMS SUCH AS SURFACE-MOUNTED MIRRORS & TOWEL DISPENSERS, WASTE RECEPTACLES, FIRE EXTINGUISHERS, ETC,, WEIGHING LESS THAN 50 LBS/LF
2. SEE PARTITION TYPES FOR STUD SIZE.
3. VERIFY LENGTH, HEIGHT, LOCATION, & QUANTITY OF BACKING PLATES REQ'D WITH APPROPRIATE MANUFACTURERS & TRADES
4. USE 16 GA X 6" STR$_L$P P FASTENED TO STUD WITH (2) #12 SHEET METAL SCREWS.
5. SPAN BACKING PLATE OVER 3 STUDS MINIMUM
6. ATTACH ITEMS TO BACKING PLATE WITH #12 SELF-TAPPING SHEET METAL SCREWS U.O.N.

BACKING PLATE FOR WALL REINFORCEMENT — A5
3" = 1'-0"



A

WALL TYPE	STUD SIZE	OVERALL DIMENSION	STUD GAUGE	STUD SPACING	FIRE RATING		INSULATION TYPE	REMARKS
					RATING	UL#		
A1	3 5/8"	4 7/8"	362S125-33	16" O.C.			ACOUST.	
A2	3 5/8"	5 3/8"	362S125-33	16" O.C.			ACOUST.	1/2" FIRE RATED PLYWOOD @ MDF SIDE

PARTITION TYPES — A1
3" = 1'-0"

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	12/16/16	100% CONSTRUCTION DOCUMENTS

ENVIRONMENTAL HEALTH OFFICE REMODEL

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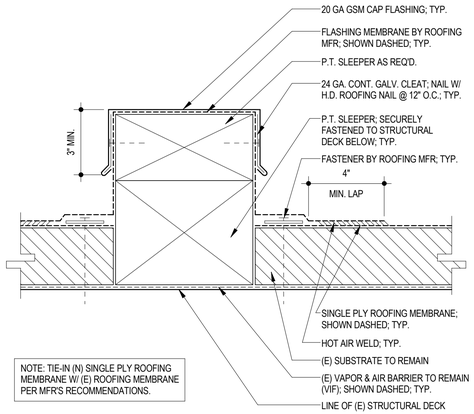
Drawing Title
INTERIOR METAL PARTITION DETAILS

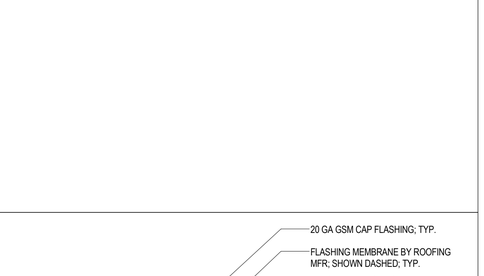
Drawing No.
A-511

SKA Project Number: 16715

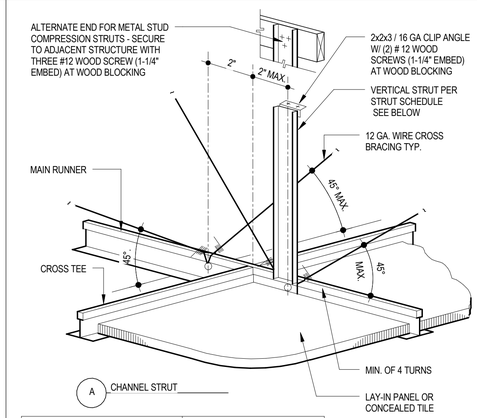
Alameda County Project Number: 14028



FLASHING @ EQUIPMENT SUPPORT — E13 — 3" = 1'-0"



CEILING TO WALL TRANSITION — A13 — 3" = 1'-0"

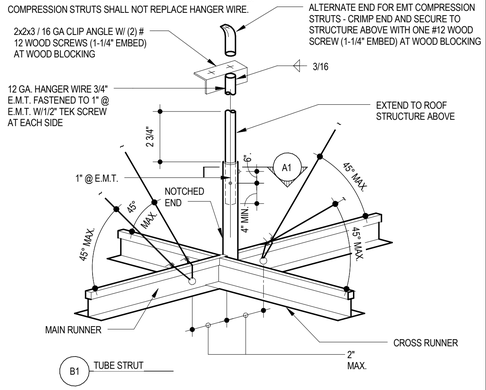


A CHANNEL STRUT

COMPRESSION STRUT MAX. HEIGHT	STRUT
UP TO 4'-0"	3/4" DIA. THIN WALL CONDUIT
UP TO 7'-0"	2 1/2" X 1 1/4" X 22 GA MTL. STUD
UP TO 10'-0"	3 5/8" x 1 5/8" x 18 GA MTL STUD
UP TO 14'-0"	6" x 2 1/2" x 16 GA MTL STUD

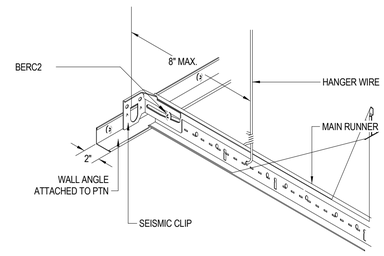
COMPRESSION STRUTS: STEEL SECTION WITH L/R RATIO OF 200 MAXIMUM
ATTACH STUDS TO MAIN RUNNERS WITH 1/4" MACHINE BOLTS.
COMPRESSION STRUTS SHALL NOT REPLACE HANGER WIRE.

A1 SECTION

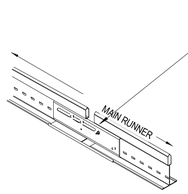


B1 TUBE STRUT

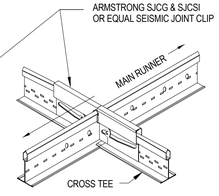
CEILING - CHANNEL BRACING — E9 — 3" = 1'-0"



A CEILING PERIMETER ASSEMBLY AT SIDES



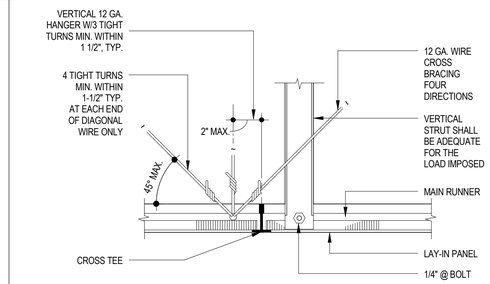
B MAIN RUNNER - SEISMIC JOINT CLIP ASSEMBLY



C CROSS TEE - SEISMIC JOINT CLIP ASSEMBLY

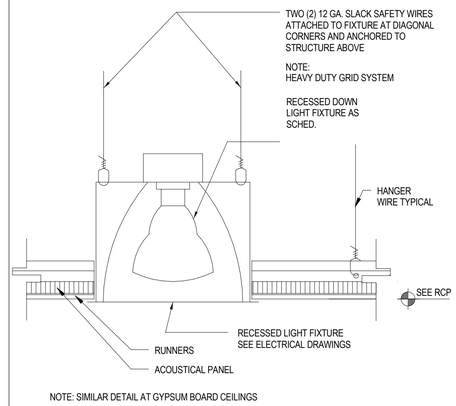
NOTE: SEE DETAIL A13 /A-515 FOR HANGER AND BRACING WIRE ATTACHMENT ABOVE

CEILING - SEISMIC CLIP DETAIL @ ACT — E5 — 3" = 1'-0"



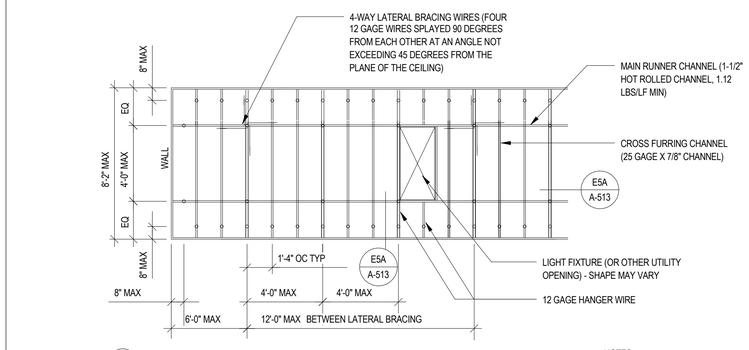
NOTE: SEE DETAIL A13 /A-515 FOR HANGER AND BRACING WIRE ATTACHMENT ABOVE

ACT LATERAL SEISMIC BRACING DETAIL — K13 — 3" = 1'-0"



NOTE: SIMILAR DETAIL AT GYPSUM BOARD CEILINGS

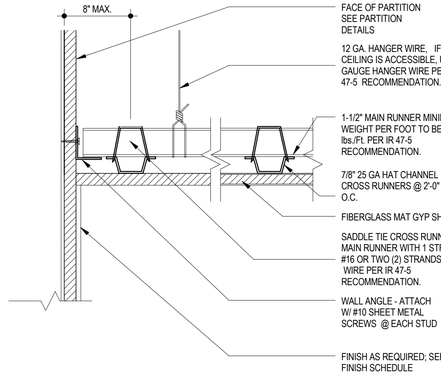
ACT CEILING - RECESSED LIGHT FIXTURE — F1 — 3" = 1'-0"



A ROOMS AND HALLS GREATER THAN 5'-4" WIDE UP TO 8'-0" WIDE

NOTES:
1. FASTEN CEILING TO EACH ADJOINING PARTITION, TYPICAL.
2. HANGER WIRES SHALL NOT HANG MORE THAN 1 IN 6 OUT-OF-PLUMB.
3. HANGER AND BRACING WIRES SHALL NOT BEND AROUND OBSTRUCTIONS.
4. PROVIDE TRAPEZE DEVICE WHERE OBSTRUCTIONS PRECLUDE DIRECT SUSPENSION.

CEILING - GYP BD CEILING FRAMING PLAN DIAGRAM — A5 — 1/4" = 1'-0"



NOTE: PER IR 47-5 RECOMMENDATION MAIN FUNNERS SHALL BE SPLICED BY LAPPING AND INTERLOCKING FLANGES 1'-0" MIN. AND TYING NEAR EACH END WITH DOUBLE LOOPS OF #16 GAUGE WIRE. CROSS FURRIING SHOULD BE SPLICED BY LAPPING AND INTERLOCKING THE PIECES 8" MIN. AND TYING NEAR EACH END WITH DOUBLE LOOPS OF #16 GAUGE WIRE.

FIBERGLASS MAT GYPSUM SHEATHING DETAIL — A1 — 3" = 1'-0"

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ENVIRONMENTAL HEALTH OFFICE REMODEL

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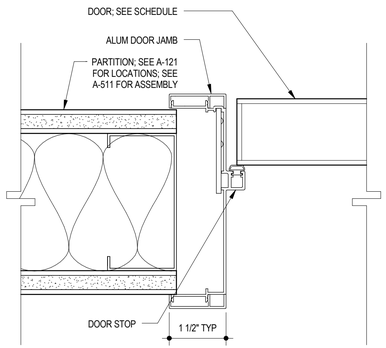
Drawing Title
INTERIOR CEILING DETAILS

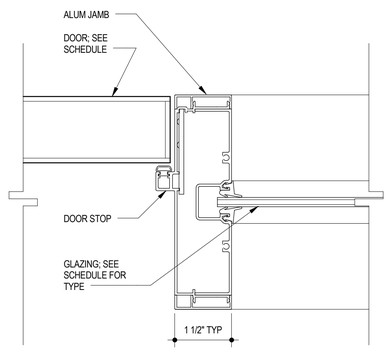
Drawing No.
A-512

SKA Project Number: 16715

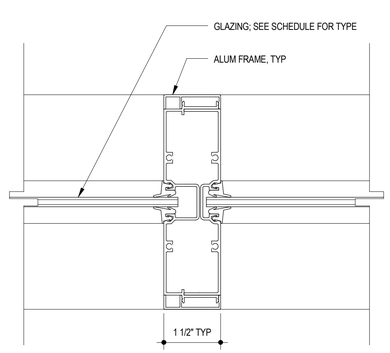
Alameda County Project Number: 14028



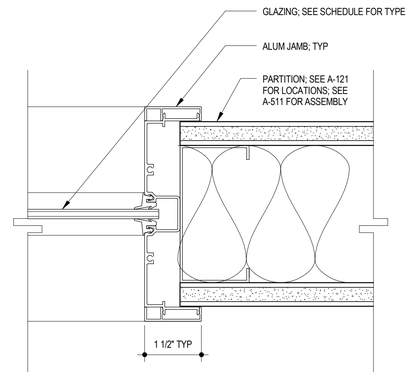
TYPICAL DOOR JAMB DETAIL W/ PARTITION — J13 — 6" = 1'-0"



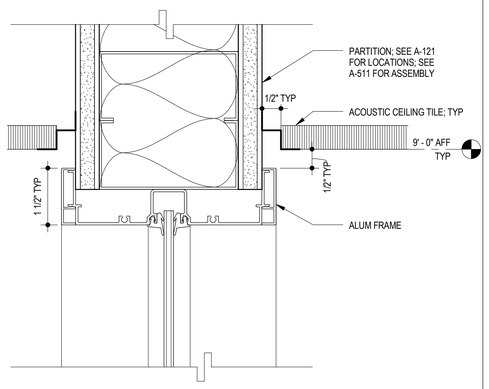
TYPICAL DOOR JAMB DETAIL W/ STOREFRONT — J9 — 6" = 1'-0"
RE: A1/ A-401



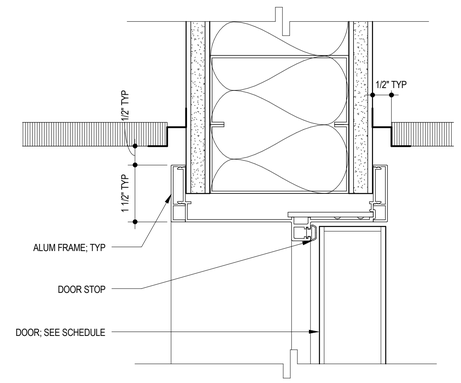
TYP STOREFRONT JAMB - INTERMEDIATE MULLION — J5 — 6" = 1'-0"
RE: A1/ A-401



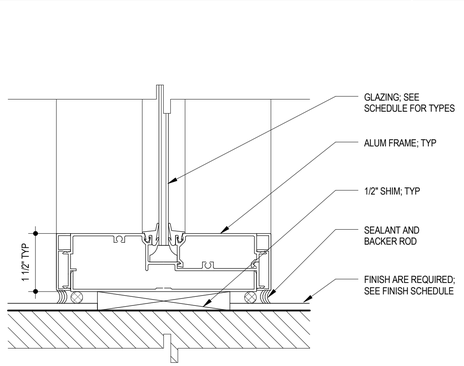
TYP STOREFRONT JAMB - ADJ TO GYP BD PARTITION — J1 — 6" = 1'-0"
RE: 1/ A-601



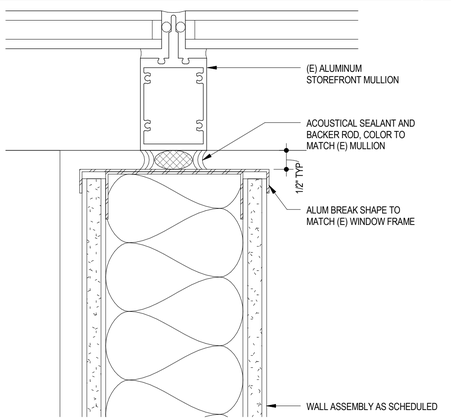
TYPICAL STOREFRONT HEAD — D5 — 6" = 1'-0"
RE: 1/ A-601



TYPICAL INTERIOR DOOR HEAD — D1 — 6" = 1'-0"



TYPICAL STOREFRONT SILL @ FLOOR — A5 — 6" = 1'-0"
RE: 1/ A-601



TYP WALL TO STOREFRONT WINDOW DETAIL — A1 — 6" = 1'-0"
RE: F1/ A-400

NOTE: If this drawing is not 34"x22" it has been revised from its original size and the scales noted on drawing/details are no longer applicable.

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Drawing Title
INTERIOR DOOR & WINDOW DETAILS

Drawing No.
A-513

SKA Project Number: 16715

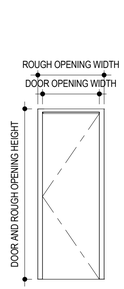
Alameda County Project Number: 14028

DOOR AND WINDOW SCHEDULE														
		DOOR OPENING		DOOR								FRAME	DETAILS	
DOOR NO.	TYPE	WIDTH	HEIGHT	THICK	MAT'L	FINISH	FIRE RATING	HARDWARE GROUP	DOOR ACCESS CONTROL	ROUGH OPENING WIDTH	ROUGH OPENING HEIGHT	MAT'L	HEAD	JAMB	REMARK
214C	B	3' - 0"	8' - 10"	1 3/4"	WD	VENEER	-	2	-	6' - 4"	9' - 0"	ALUM	D1/A-513	J13 & J9/A-513	
233B	NA	3' - 0"	8' - 10"	-	-	-	-	-	-	3' - 6"	9' - 0"	ALUM	D1/A-513 SIM	J13/A-513 SIM	VERIFY DIMENSIONS OF ROUGH OPENING WIDTH IN THE FIELD, OPENING MUST CLEAR (E) CASEWORK IN ROOM 233
234A	B	3' - 0"	8' - 10"	1 3/4"	WD	VENEER	-	2	-	6' - 4"	9' - 0"	ALUM	D1/A-513	J13 & J9/A-513	
234B	B	3' - 0"	8' - 10"	1 3/4"	WD	VENEER	-	2	-	6' - 4"	9' - 0"	ALUM	D1/A-513	J13 & J9/A-513	
234C	B	3' - 0"	8' - 10"	1 3/4"	WD	VENEER	-	1	-	6' - 4"	9' - 0"	ALUM	D1/A-513	J13 & J9/A-513	
248A	C	3' - 0"	8' - 10"	1 3/4"	ALUM/GL	MATCH (E)	-	2	-	23' - 6 1/2"	9' - 0"	ALUM	D1/A-513	J13 & J9/A-513	
248B	C	3' - 0"	8' - 10"	1 3/4"	ALUM/GL	MATCH (E)	-	2	-	23' - 6 1/2"	9' - 0"	ALUM	D1/A-513	J13 & J9/A-513	
253B	A	3' - 0"	8' - 10"	1 3/4"	WD	VENEER	-	1	-	3' - 6"	9' - 0"	ALUM	D1/A-513	J13/A-513	

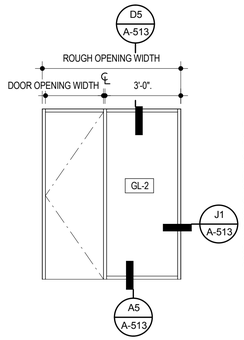
DOOR HARDWARE GROUPS

GROUP 1 — STOREROOM LOCK
INSIDE: LEVER ALWAYS UNLOCKED
OUTSIDE: LEVER UNLOCKED BY KEY

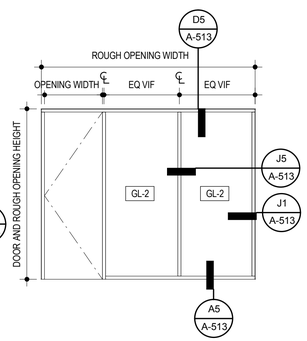
GROUP 2 — PASSAGE LATCH
INSIDE: LEVER ALWAYS UNLOCKED
OUTSIDE: LEVER ALWAYS UNLOCKED



TYPE A
SINGLE FLUSH DOOR



TYPE B
SINGLE FLUSH DOOR
WITH SIDELITE



TYPE C
SINGLE FLUSH DOOR WITH
STOREFRONT WINDOWS

FINISH SCHEDULE						
ROOM NO.	ROOM NAME	FLOOR FINISH	WALL BASE	WALL FINISH	CEILING FINISH	REMARKS
214C	OFFICE	C-1	RB-1	PT-1	EXISTING	
233	(E) BREAK ROOM	EXISTING	EXISTING	EXISTING	EXISTING	
234A	OFFICE	C-1	RB-1	PT-1	EXISTING	
234B	OFFICE	C-1	RB-1	PT-1	EXISTING	
234C	STORAGE	EXISTING	RB-1	PT-1	EXISTING	
248	CONFERENCE ROOM	C-1	RB-1	PT-1	EXISTING	
253B	MDF	RF-1	RB-1	PT-1	EXISTING	DISSIPATIVE TILE OFCI

FINISH SCHEDULE E1
NTS

SYMBOL	MATERIAL	BASIS OF DESIGN MANUFACTURER	MODEL / SIZE / TYPE	FINISH / COLOR	PRODUCT NOTES
C-1	CARPET	MATCH (E)	MATCH (E)	MATCH (E)	
GL-1	GLAZING	MATCH (E)	MATCH (E)	MATCH (E)	INTERIOR STOREFRONT SYSTEM
PT-1	PAINT	KELLY MOORE	-	MATCH (E)	
RB-1	RESILIENT BASE	ROPPE	PINNACLE 4" WALL BASE	MATCH (E)	USE WATERPROOF ADHESIVES
RF-1	RESILIENT FLOORING	-	-	-	DISSIPATIVE TILE FLOOR, OFCI

FINISH LEGEND A1
NTS

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PHILIP SHENG-YI LOO
C 29075
REN. 12-31-17
STATE OF CALIFORNIA

Drawing Title
DOOR, WINDOW AND FINISH SCHEDULES

Drawing No.
A-601

SKA Project Number: 16715

Alameda County Project Number: 14028

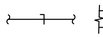
MECHANICAL SYMBOL LIST

NOTE: This is a standard symbol list and not all items listed may be used.

Abbreviations

(E)	EXISTING
(N)	NEW
(R)	RELOCATE/RELOCATED LOCATION
(X)	DEMOLISH
CD	CEILING DIFFUSER
CD	CONDENSATE DRAIN
CFM	CUBIC FEET PER MINUTE
CONT.	CONTINUATION
CU	CONDENSING UNIT
DB	DECIBEL
DB	DRY BULB
DIA	DIAMETER
DX	DIRECT EXPANSION
EAT	ENTERING AIR TEMPERATURE
EER	ENERGY EFFICIENCY RATING
ELECT	ELECTRICAL
EWT	ENTERING WATER TEMPERATURE
F	FAHRENHEIT
HP	HORSEPOWER
HWC	HOT WATER COIL
IN	INCHES
LAT	LEAVING AIR TEMPERATURE
LBS.	POUNDS
MAX	MAXIMUM
MIN	MINIMUM
N/A	NOT APPLICABLE
NIC	NOT IN CONTRACT
NO.	NUMBER
OA	OUTSIDE AIR
OC	ON CENTER
PH	PHASE
PSI	POUNDS PER SQUARE INCH
QTY	QUANTITY
RA	RETURN AIR
RET	RETURN
RPM	REVOLUTIONS PER MINUTE
SA	SUPPLY AIR
SF	SQUARE FEET
SP	STATIC PRESSURE
T, TEMP	TEMPERATURE
V	VOLT
W/	WITH
W	WATT
WB	WET BULB
WC	WATER COLUMN

Dampers



VOLUME DAMPER

Diffusers and Grilles

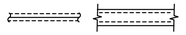
EXHAUST AIR

RETURN AIR

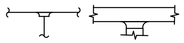
SUPPLY AIR

DIFFUSER OR GRILLE IDENTIFICATION

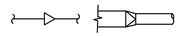
Ductwork Fittings



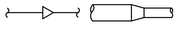
ACOUSTICALLY LINED DUCT (SIZES SHOWN ARE NET INSIDE)



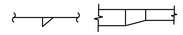
BELLMOUTH



CONCENTRIC SQUARE TO ROUND

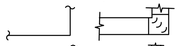


CONCENTRIC TRANSITION, RECTANGULAR OR ROUND

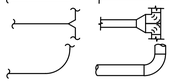


ECCENTRIC TRANSITION, RECTANGULAR OR ROUND

FLEXIBLE CONNECTION

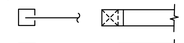


MITERED ELBOW WITH TURNING VANES

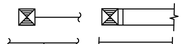


NON-SYMMETRICAL WYE

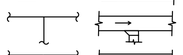
RADIUSED ELBOW



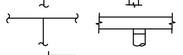
RECTANGULAR DUCT DROP



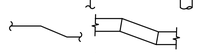
RECTANGULAR DUCT RISER



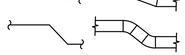
RECTANGULAR MAIN WITH RECTANGULAR BRANCH



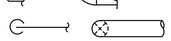
RECTANGULAR MAIN WITH ROUND BRANCH



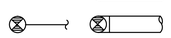
RECTANGULAR OFFSET LESS THAN 15°



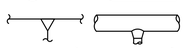
RECTANGULAR OFFSET MORE THAN 15°



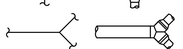
ROUND DUCT DROP



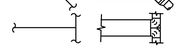
ROUND DUCT RISER



ROUND DUCT WITH ROUND BRANCH



ROUND WYE



SYMMETRICAL WYE

Piping Systems

RL — REFRIGERANT LIQUID

RS — REFRIGERANT SUCTION

GENERAL DEMOLITION NOTES

A. COORDINATE DEMOLITION, CUTTING PATCHING, ETC. WITH GENERAL CONTRACTOR AND EXISTING FIELD CONDITIONS PRIOR TO SUBMITTING CONSTRUCTION CONTRACT BIDS. SEE SPECIFICATIONS GENERAL PROVISIONS, NOT ALL PIPING IS ILLUSTRATED.

B. REFER TO ARCHITECTURAL AND ELECTRICAL DRAWINGS FOR SPACE ALLOTMENT, BEAM LOCATION AND COORDINATION PURPOSES. CONFLICTS REGARDING SPACE REQUIREMENTS, CLEARANCES, INTERFERENCE WITH STRUCTURE OR OTHER WORK, ETC., SHALL BE DIRECTED TO THE ARCHITECT FOR RESOLUTION PRIOR TO INSTALLATION OF WORK.

C. CUTTING, PATCHING AND PAINTING OF EXISTING WALLS, CEILINGS AND FLOOR TO ACCOMMODATE WORK AS SHOWN OR SPECIFIED HEREIN, SHALL BE INCLUDED IN THE WORK FOR EACH TRADE.

D. VERIFY AND COORDINATE EXISTING DUCT, HEATING HOT WATER, AND SUCTION AND LIQUID PIPING TO REMAIN IN SERVICE. CONTRACTOR SHALL REROUTE/REPIPE EXISTING PIPING TO REMAIN AS REQUIRED TO MAINTAIN SERVICE, COORDINATE REROUTE/REPIPE LOCATION WITH ARCHITECT. EXISTING PIPING AND DUCT SERVING OTHER TENANTS/BUILDING SPACES IS TO REMAIN.

GENERAL SEISMIC BRACING NOTES

A. PROVIDE SEISMIC BRACING OF HVAC EQUIPMENT, DUCTWORK, AND PIPING IN ACCORDANCE WITH THE REQUIREMENTS OF THE LATEST BUILDING CODE WITH AN IMPORTANCE FACTOR IDENTIFIED ON ARCHITECTURAL AND STRUCTURAL DOCUMENTS.

B. REFER TO STRUCTURAL DRAWINGS FOR CONCRETE ANCHOR TYPE AND INSTALLATION REQUIREMENTS.

C. SUBMIT SEISMIC BRACING DETAILS FOR REVIEW.

D. UNLESS THE STRUCTURAL DRAWINGS HAVE AN ENGINEERED SYSTEM, OR THE CONTRACTOR PROVIDES ENGINEERED SYSTEMS SIGNED BY A CALIFORNIA REGISTERED CIVIL OR STRUCTURAL ENGINEER, SUPPORT AND BRACE DUCTWORK, PIPING, AND APPURTENANCES WITH OSHPD PRE-APPROVED SYSTEMS (WHETHER AN OSHPD PROJECT OR NOT):

1. OPM-0043-13 MASON SEISMIC RESTRAINT COMPONENTS FOR SUSPENDED UTILITIES, OR EQUAL.

E. WITHOUT ANY EXCEPTIONS, BRACE EVERY RUN OF DUCT DESIGNED TO CARRY TOXIC OR EXPLOSIVE GASSES, OR USED FOR SMOKE CONTROL OR PRESSURIZATION AIR. FOR OTHER DUCTWORK BRACE EVERY RUN OF DUCT WITH A CROSS SECTIONAL AREA OF LARGER THAN 6 SQ.FT., EXCEPT THAT BRACING OF DUCTWORK WITH SUPPORT ROD LENGTH LESS THAN 12 INCHES IS NOT REQUIRED. ROD LENGTH SHALL BE AS MEASURED FROM TOP OF DUCT TO BOTTOM OF SUPPORT WHERE THE HANGER IS ATTACHED. SEISMIC BRACING, WHERE SHOWN ON DRAWINGS, IS THE MINIMUM REQUIRED; PROVIDE ADDITIONAL BRACING AS REQUIRED BY OPM-0043-13, OR EQUAL.

F. WHERE BRACING IS REQUIRED, BRACE DUCTWORK FOR EACH STRAIGHT RUN OF DUCT WITH THE FOLLOWING REQUIREMENTS (SEE OPM-0043-13 FOR ADDITIONAL REQUIREMENTS):

1. LONGITUDINAL BRACING: MINIMUM 1, WITH MAXIMUM SPACING OF 60'.
2. TRANSVERSE BRACING: MINIMUM TWO, WITH MAXIMUM SPACING OF 30', AT END OF DUCT RUNS HAVING MIN OF 2 SUPPORTS, AND AT EVERY DROP OR RISE EXCEPT FOR CONNECTION TO DIFFUSERS WHERE THE ELEVATION CHANGE OF CONNECTING DUCTWORK IS LESS THAN 24 INCHES.

GENERAL FIRE PROTECTION NOTES

A. THE FIRE PROTECTION SYSTEM WILL BE DEFERRED APPROVAL AND IS THE RESPONSIBILITY OF THE DESIGN BUILD CONTRACTOR. PROVIDE A FULL COVERAGE, AUTOMATIC SPRINKLER SYSTEM. DESIGN AND HYDRAULIC CALCULATION SHALL BE PROVIDED BY A LICENSED ENGINEER OR CONTRACTOR, AND SHALL BE IN COMPLIANCE WITH THE LATEST ADOPTED EDITION OF THE CBC, CFC, AND REQUIREMENTS OF THE AHJ.

GENERAL MECHANICAL NOTES

A. PROVIDE MISCELLANEOUS METALS AND MATERIALS FOR A COMPLETE INSTALLATION (IE. SUPPORT, BRACING, ETC.)

B. PROVIDE EQUIPMENT SUBMITTAL, FOR REVIEW, IN ACCORDANCE WITH THE SPECIFICATIONS. DO NOT DELIVER TO THE JOB SITE ANY PRODUCTS WITHOUT PRIOR REVIEW BY THE ARCHITECT. SUBMIT ALL REQUIRED SUBMITTALS AT ONE TIME. AT CONTRACTOR'S OPTION 3 SEPARATE SUBMITTALS MAY BE SUMBITTED, CONSISTING OF: UNDERGROUND WORK, BUILDING WORK, AND BUILDING AUTOMATION SYSTEM - DEVIATIONS WILL BE RETURNED WITHOUT REVIEW. INCOMPLETE SUBMITTALS WILL BE RETURNED WITHOUT REVIEW. ENGINEER WILL PROVIDE MAXIMUM OF TWO REVIEWS OF SUBMITTAL PACKAGE. ARRANGE FOR ADDITIONAL REVIEWS AND/OR EARLY REVIEW OF LONG-LEAD ITEMS AND BEAR COSTS OF THESE ADDITIONAL REVIEWS AT ENGINEER'S STANDARD HOURLY RATES. SUBSTITUTION REQUESTS WILL NOT BE REVIEWED AFTER AWARD OF CONTRACT.

C. PRIOR TO SUBMISSION OF BID, REVIEW A COMPLETE SET OF CONSTRUCTION DOCUMENTS (INCLUDING ALL OTHER TRADES). INCLUDE ADDITIONAL PIPE OR DUCT OFF-SETS THAT MAY BE REQUIRED TO CLEAR STRUCTURE, FINISHES OR WORK OF OTHER TRADES. FIELD VERIFY EXACT LOCATION AND SIZES OF EXISTING UTILITIES, THE PROPOSED POINT OF CONNECTIONS TO EXISTING SYSTEMS, AND NEW ROUTINGS. EXTRA PAYMENT WILL NOT BE ALLOWED FOR WORK RESULTING FROM LACK OF APPRAISAL OF ENTIRE SCOPE OF WORK PRIOR TO BID. SYSTEM LAYOUTS AS INDICATED ON DRAWINGS ARE GENERALLY DIAGRAMMATIC BUT SHALL BE FOLLOWED AS CLOSELY AS ACTUAL CONSTRUCTION WILL PERMIT.

D. PROVIDE DUCT ACCESS DOORS FOR EQUIPMENT AND DEVICES REQUIRING ACCESS OR RESETTING (IE. FIRE AND SMOKE DAMPERS, SMOKE DAMPERS, SENSORS, ETC.) INDICATE SIZE AND LOCATION ON COORDINATED SHOP DRAWINGS.

E. FLASH AND COUNTER FLASH ALL ROOF PENETRATIONS TO SEAL WEATHER TIGHT (SEE ARCHITECTURAL ROOFING DETAILS AND SPECIFICATIONS).

F. PROVIDE DUCTWORK AND TRANSITIONS EQUAL TO DUCT FREE AREA SHOWN ON DRAWINGS, TO PREVENT A SPATIAL CONFLICT. AT CONTRACTOR'S OPTION AND IF SPATIAL CONSTRAINTS ALLOW IT, ROUND SPIRAL DUCTWORK, OF EQUAL CROSS-SECTIONAL AREA OR LARGER, MAY BE USED IN LIEU OF RECTANGULAR DUCTWORK WHERE SHOWN ON PLANS.

G. PROVIDE FIELD INSTALLED OR MANUFACTURER'S REFRIGERANT LINE SETS BETWEEN THE SPLIT SYSTEMS' INDOOR AND OUTDOOR COMPONENTS. SIZING, QUANTITY, AND INSTALLATION OF PIPES SHALL BE PER MANUFACTURER'S RECOMMENDATIONS BASED ON ACTUAL FIELD INSTALLED LENGTH. PROVIDE HARD WIRED THERMOSTATS AND CONTROL WIRING IN CONDUIT BETWEEN INDOOR AND OUTDOOR UNITS.

H. EQUIPMENT, HVAC DUCTS, PIPING AND OTHER DEVICES AND MATERIALS INSTALLED OUTDOORS OR EXPOSED TO WEATHER SHALL BE WEATHER PROOF.

I. USE FLEXIBLE DUCTS ONLY FOR THE LAST 5 FEET MAXIMUM AT AIR OUTLETS.

J. PROVIDE MANUAL VOLUME DAMPERS AT EACH GRILLE, REGISTER, AND DIFFUSER, AND LOCATE EQUIDISTANCE BETWEEN BRANCH TAKEOFF AND AIR INLET/OUTLET. DO NOT USE VOLUME DAMPERS INTEGRAL WITH GRILLES, DIFFUSERS AND REGISTERS FOR AIR BALANCING.

K. INSTALL EQUIPMENT WITH SUFFICIENT ACCESS TO PANELS, ELECTRICAL CONNECTIONS, CONTROLS, FILTERS, MOTORS, ETC. COORDINATE ACCESS TO ALL DAMPERS, VALVES, AND OTHER SERVICEABLE EQUIPMENT. REVIEW CEILING HEIGHTS AND COORDINATE ACCESS PANEL LOCATIONS.

L. COORDINATE EQUIPMENT PLATFORMS, AND CUTTING AND PATCHING. OBTAIN WRITTEN PERMISSION FROM THE ARCHITECT PRIOR TO ANY STRUCTURAL MODIFICATIONS, CUTTING OR PATCHING WORK. KEEP SAW CUTTING TO A MINIMUM.

M. VERIFY DIFFUSERS, GRILLES, AND REGISTER MOUNTING FRAME TYPES WITH CONSTRUCTION TYPE AND CONFIGURATION.

N. PAINT FLAT BLACK ALL VISIBLE INTERIOR PORTIONS OF DUCTWORK.

O. PROTECT AND ISOLATE DUCTS STORED ON CONSTRUCTION SITE FROM DUST CONTAMINATION.

P. COORDINATE LOCATION OF SENSORS AND THERMOSTATS WITH ARCHITECT. COMPLY WITH ADA REQUIREMENTS.

Q. "DEMOLISH" OR "REMOVE" MEAN: REMOVE AND RETURN TO OWNER FOR ACCEPTANCE, AND DISPOSE OF ANY ITEMS NOT ACCEPTED BY THE OWNER.

R. COORDINATE WITH DIVISION 26 FOR LOCATION OF POWER AND LOCAL DISCONNECTS FOR MECHANICAL EQUIPMENT DEVICES. PROVIDE STARTERS FOR EQUIPMENT WITHOUT VFD'S, ECM MOTORS, OR EQUIPMENT WITHOUT INTEGRAL STARTERS.

S. MAINTAIN MINIMUM ELECTRICAL CODE AND UNIT MANUFACTURER'S CLEARANCES TO ADJACENT CONSTRUCTION OR EQUIPMENT, PER CEC OR THE FOLLOWING TABLE:

	0-150 VOLT	150-600
NO LIVE OR GROUNDED PARTS ON OPPOSITE SIDE	36 INCHES	36 INCHES
GROUNDED PARTS ON OPPOSITE SIDE	36 INCHES	42 INCHES
LIVE PARTS ON OPPOSITE SIDE	36 INCHES	48 INCHES

SHEET INDEX

PROJECT 2016-0251
CONTACT Jonathan Larsen

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NOTE: If this drawing is not 34"x22" it has been revised from its original size and the scales noted on drawing/details are no longer applicable.

NO.	DATE	ISSUE DESCRIPTION
	12/9/16	COUNTY REVIEW SET
	12/16/16	100% CONSTRUCTION DOCUMENTS

ENVIRONMENTAL HEALTH OFFICE REMODEL

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Drawing Title
SYMBOLS LIST AND GENERAL NOTES - MECHANICAL

Drawing No.
M-001

SKA Project Number: 16715

Alameda County Project Number: 14028

FAN COIL UNIT SCHEDULE

SYMBOL	AREA SERVED	BASIS OF DESIGN MFR	BASIS OF DESIGN MODEL	ASSOC CU	FAN TOTAL CFM	DX COOLING COIL NOM TONS	DX COOLING COIL TOTAL CAP (MBH)	DX COOLING COIL EDB (°F)	DX COOLING COIL EWB (°F)	DX COOLING COIL LDB (°F)	DX COOLING COIL LWB (°F)	ELECTRICAL VOLTS	ELECTRICAL PH	ELECTRICAL MCA	APPROX. DIMS (LxWxH)	MAX WT (LBS)	NOTES
FC-1	MDF 253B	LG	LSN240HLV	CU-1	700	2	24	75	65	55	55	NA	NA	NA	47"x14"x11"	50	1-6

NOTES:
1. INDOOR UNIT POWERED BY SINGLE POINT ELECTRICAL CONNECTION TO CU-1
2. REFRIGERANT PIPING TO CONFROM WITH MANUFACTURER'S RECOMMENDATIONS AND GUIDELINES
3. PROVIDE WITH FIELD INSTALLED GOBI CONDENSATE PUMP (ELECTRICAL 115 VOLTS). ROUTE PIPING TO NEAREST PLUMBING FIXTURE, COORDINATE LOCATION WITH EXISTING DRAIN FROM EXISTING MDF ROOM. DO NOT ROUTE OVER ELECTRICAL PANELS OR EQUIPMENT.
4. COORDINATE EXACT LOCATION WITH ARCHITECT AND EQUIPMENT IN ROOM.
5. PROVIDE WITH PROGRAMMABLE WIRED REMOTE CONTROLLER
6. PROVIDE BACNET INTERFACE FOR FUTURE CONNECTION TO BMS

CONDENSING UNIT SCHEDULE

SYMBOL	AREA SERVED	BASIS OF DESIGN MFR	BASIS OF DESIGN MODEL	ASSOC FAN	AIR SOURCE CONDENSER NOM TONS	AIR SOURCE CONDENSER CAP (MBH)	AIR SOURCE CONDENSER AMBIENT DB (°F)	AIR SOURCE CONDENSER REFRIG.	AIR SOURCE CONDENSER EER	ELECTRICAL VOLTS	ELECTRICAL PH	ELECTRICAL MCA	ELECTRICAL MOCP	APPROX. DIMS (LxWxH)	MAX WT (LBS)	NOTES
CU-1	MDF 253B	LG	LSU240HLV	FC-1	2	24	88	R-410A	12.5	208	1	23	35	35"x13"x32"	150	1-5

NOTES:
1. OUTDOOR UNIT TO POWER CORRESPONDING INDOOR UNIT (FC-1)
2. DISCONNECT BY DIV. 26
3. PROVIDE WITH VARIABLE SPEED COMPRESSOR
4. PROVIDE WITH LOW AMBIANT CONTROLS TO PROVIDE FULL COOLING AT 20 DEG. F
5. PROVIDE BACNET INTERFACE FOR FUTURE CONNECTION TO BMS

FAN COIL UNIT SCHEDULE (VRF ALTERNATE)

SYMBOL	AREA SERVED	BASIS OF DESIGN MFR	BASIS OF DESIGN MODEL	ASSOC CU	FAN TOTAL CFM	DX COOLING COIL NOM TONS	DX COOLING COIL TOTAL CAP (MBH)	DX COOLING COIL EDB (°F)	DX COOLING COIL EWB (°F)	DX COOLING COIL LDB (°F)	DX COOLING COIL LWB (°F)	ELECTRICAL VOLTS	ELECTRICAL PH	ELECTRICAL MCA	APPROX. DIMS (LxWxH)	MAX WT (LBS)	NOTES
FC-1	(N) MDF ROOM	LG	ARNU243SCL4	CU-2	494	2	24	75	65	55	55	208	1	0.3	41"x10"x13"	40	1-6
FC-2	(E) MDF ROOM	LG	ARNU243SCL4	CU-2	494	2	24	75	65	55	55	208	1	0.3	41"x10"x13"	40	1-6

NOTES:
1. ADD ALTERNATE: PROVIDE 2 NEW VRF FAN COIL UNITS TO BE PAIRED WITH A SINGLE CU-1 (SEE VRF ALTERNATE SCHEDULE). VRF FAN COIL UNITS AND CONDENSING UNIT REQUIRE SEPARATE ELECTRICAL CONNECTIONS, COORDINATE WITH DIV. 26.
2. REFRIGERANT PIPING TO CONFROM WITH MANUFACTURER'S RECOMMENDATIONS AND GUIDELINES
3. PROVIDE WITH FIELD INSTALLED GOBI CONDENSATE PUMP (ELECTRICAL 115 VOLTS). ROUTE PIPING TO NEAREST PLUMBING FIXTURE, COORDINATE LOCATION WITH EXISTING DRAIN FROM EXISTING MDF ROOM. DO NOT ROUTE OVER ELECTRICAL PANELS OR EQUIPMENT.
4. COORDINATE EXACT LOCATION WITH ARCHITECT AND EQUIPMENT IN ROOM.
5. PROVIDE WITH PROGRAMMABLE WIRED REMOTE CONTROLLER
6. PROVIDE BACNET INTERFACE FOR FUTURE CONNECTION TO BMS

CONDENSING UNIT SCHEDULE (VRF ALTERNATE)

SYMBOL	AREA SERVED	BASIS OF DESIGN MFR	BASIS OF DESIGN MODEL	ASSOC FAN	AIR SOURCE CONDENSER NOM TONS	AIR SOURCE CONDENSER CAP (MBH)	AIR SOURCE CONDENSER AMBIENT DB (°F)	AIR SOURCE CONDENSER REFRIG.	AIR SOURCE CONDENSER EER	ELECTRICAL VOLTS	ELECTRICAL PH	ELECTRICAL MCA	ELECTRICAL MOCP	APPROX. DIMS (LxWxH)	MAX WT (LBS)	NOTES
CU-1	MDF ROOMS	LG	ARNU048GSS4	FC-2	4	48	88	R-410A	NA	208	1	30	50	37"x13"x55"	225	1-5

NOTES:
1. ADD ALTERNATE: PROVIDE NEW VRF CONDENSING UNIT TO BE PAIRED WITH (2) NEW FAN COIL UNITS IN EACH MDF ROOM. INDOOR UNITS REQUIRE INDIVIDUAL ELECTRICAL CONNECTIONS, COORDINATE WITH DIV. 26.
2. DISCONNECT BY DIV. 26
3. PROVIDE WITH VARIABLE SPEED COMPRESSOR
4. PROVIDE WITH LOW AMBIANT CONTROLS TO PROVIDE FULL COOLING AT 20 DEG. F
5. PROVIDE BACNET INTERFACE FOR FUTURE CONNECTION TO BMS.

DIFFUSER, REGISTER AND GRILLE SCHEDULE

SYMBOL	TYPE	FACE	FRAME	DAMPER	FINISH	BASIS OF DESIGN	REMARKS
CD-1	CEILING DIFFUSER	PERFORATED	LAY-IN	NONE	WHITE	TITUS PCS	1-3
CRG-1	CEILING RETURN GRILLE	PERFORATED	LAY-IN	NONE	WHITE	TITUS PAR	1-3

NOTES:
1. COORDINATE EXACT LOCATION WITH LIGHTS, SPRINKLER HEADS, AND ARCH. RCP.
2. USE BORDER TYPE 2 FOR SURFACE MOUNT IN HARD CEILING.
3. SEE FLOOR PLANS FOR NECK AND GRILLE SIZES. BRANCH DUCTWORK TO MATCH INLET SIZE SHOWN.

TERMINAL UNIT SCHEDULE (EXISTING)

SYMBOL	AREA SERVED	COLD SIDE INLET SIZE (IN)	COLD SIDE AIRFLOW MAX CFM	HOT SIDE INLET SIZE (IN)	HOT SIDE AIRFLOW MAX CFM	NOTES
VAV-205	OFFICES	8	655	8	100	1,2
VAV-222	CONFERENCE	8	670	8	200	1,2
VAV-231	OFFICES	8	620	6	450	1,2

NOTES:
1. EXISTING DUAL DUCT VAV BOX. AIRFLOWS SHOWN ARE FROM AS-BUILD DOCUMENTS, FIELD VERIFY SIZES AND NOTIFY ENGINEER OF ANY DISCREPANCY. REBALANCE AS NECESSARY TO PROVIDE AIRFLOWS SHOWN ON PLANS.
2. RETAIN EXISTING MINIMUM AIRFLOWS.

PROJECT 2016-0251
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Date Signed: 12/19/16

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ENVIRONMENTAL HEALTH OFFICE REMODEL

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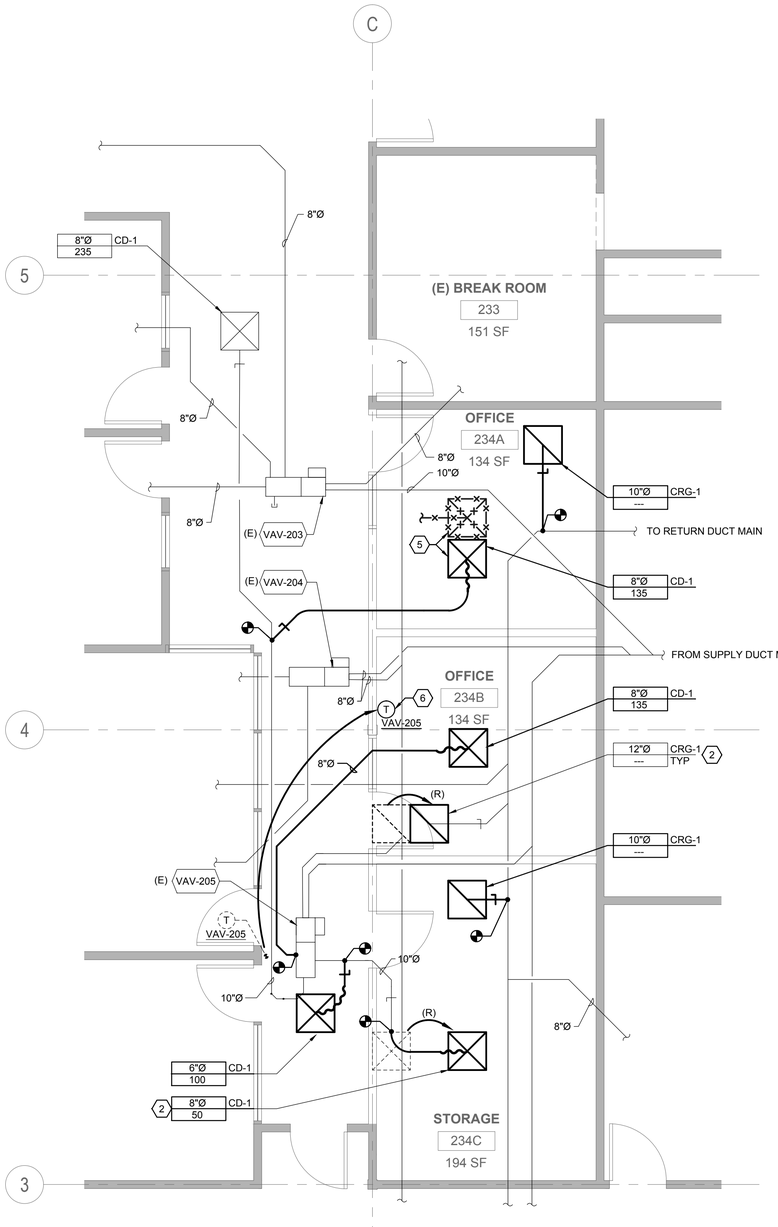
Drawing Title
SCHEDULES - MECHANICAL

Drawing No.
M-002

SKA Project Number: 16715

Alameda County Project Number: 14028

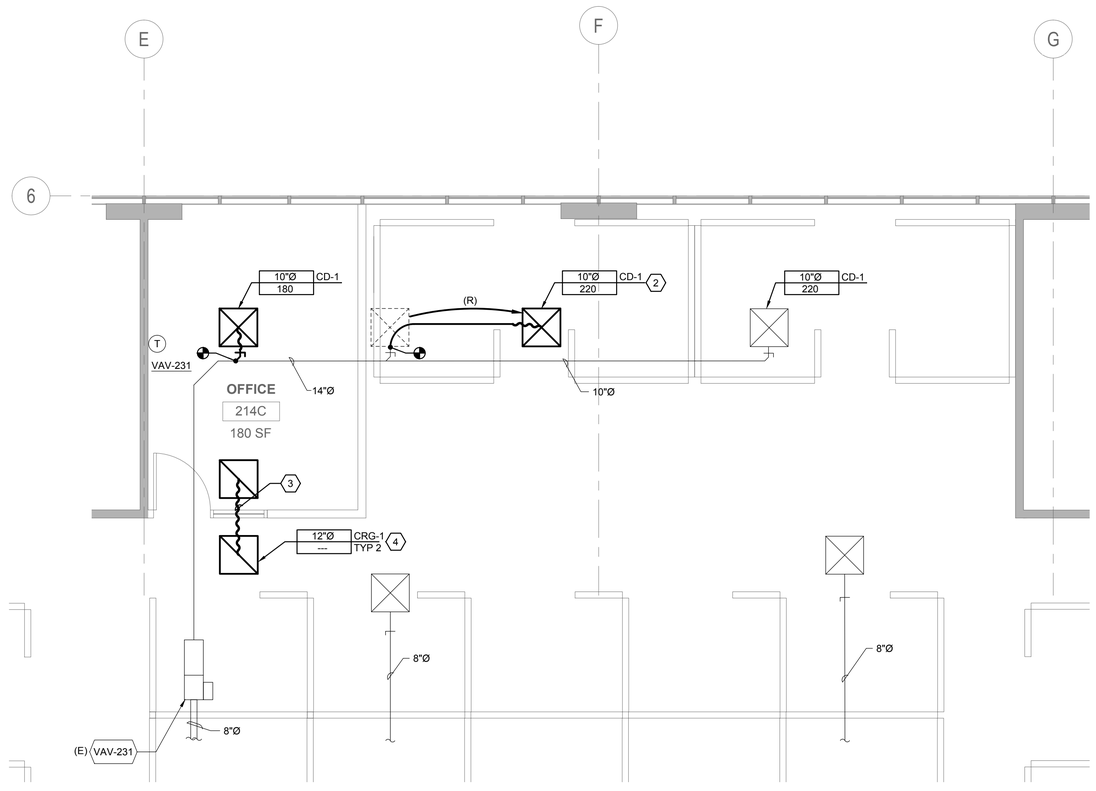


PROJECT NORTH

1 ENLARGED OFFICES + STORAGE PLAN - MECHANICAL

0 2' 4' 8'

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



PROJECT NORTH

2 ENLARGED OFFICE 214 PLAN - MECHANICAL

0 2' 4' 8'

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

GENERAL SHEET NOTES

A. VERIFY DUCT SIZES AND ROUTING IN FIELD AND ALERT ARCHITECT/ENGINEER OF ANY DISCREPANCY.

B. REBALANCE AIRFLOWS TO NEW CFM VALUES AT ALL LOCATIONS WHERE AIRFLOW VALUES ARE PROVIDED IN THE DIFFUSER/GRILLE TAG.

SHEET KEYNOTES

1 DEMOLISH CONNECTION TO EXISTING GRILLE AND CAP EXISTING DUCTWORK ABOVE NEW LAY-IN CEILING IN MDF ROOM. PRESERVE DAMPER OR ANY DUCTWORK TO BE RE-USED AS A PART OF THE RELOCATION AS SHOWN.

2 RELOCATED CEILING DIFFUSER/GRILLE. PROVIDE ADDITIONAL DUCTWORK AND HANGERS AS NECESSARY TO MAKE CONNECTION IN NEW LOCATION. RE-BLANCE AIRFLOW TO CFM VALUES SHOWN ON PLANS.

3 12"Ø FLEX DUCT ABOVE CEILING FOR TRANSFER AIR.

4 CEILING TRANSFER GRILLE. COORDINATE EXACT MAKE AND MODEL OF GRILLE WITH EXISTING EQUIPMENT BEFORE INSTALLATION.

5 FIELD VERIFY DIFFUSER AND DUCTWORK ROUTING BACK TO MAIN. IF IN OBSERVED TO BE IN GOOD CONDITION, ALL EXISTING TO REMAIN. REBALANCE AIRFLOW TO CFM VALUE SHOWN ON PLAN. OTHERWISE IF IN POOR CONDITION, DEMOLISH BACK TO MAIN AND PROVIDE NEW GRILLE AND DIFFUSER AS SHOWN.

6 RELOCATE THERMOSTAT TO NEW PRIVATE OFFICE.

PROJECT 2016-0251
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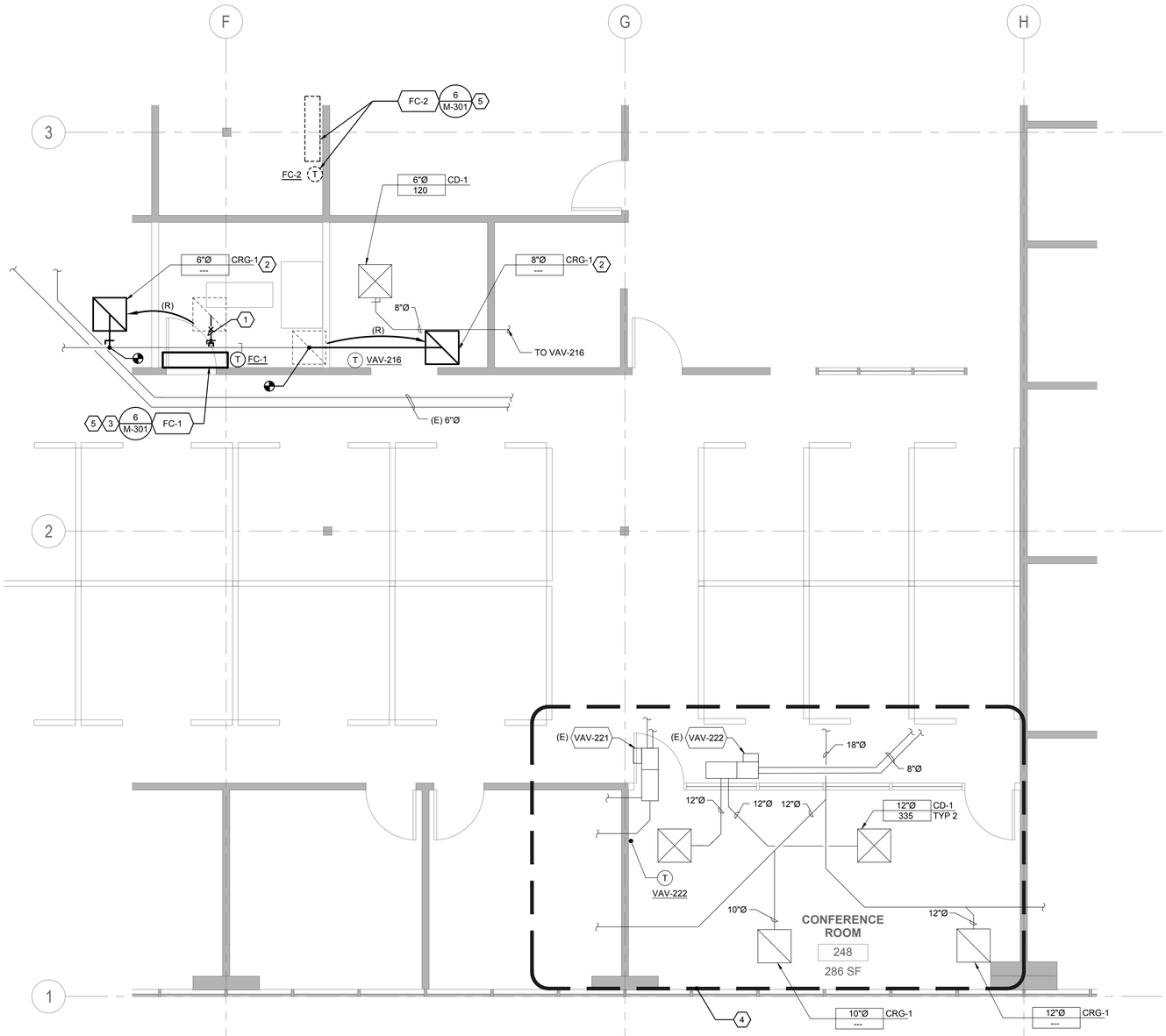
Drawing Title
ENLARGED PLANS - OFFICES - MECHANICAL

Drawing No.
M-201

SKA Project Number: 16715

Alameda County Project Number: 14028



PROJECT NORTH

3 ENLARGED CONFERENCE ROOM + MDF PLAN - MECHANICAL

0 2' 4' 8'

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

GENERAL SHEET NOTES

A. VERIFY DUCT SIZES AND ROUTING IN FIELD AND ALERT ARCHITECT/ENGINEER OF ANY DISCREPANCY.

SHEET KEYNOTES

1 DEMOLISH CONNECTION TO EXISTING GRILLE AND CAP EXISTING DUCTWORK ABOVE NEW LAY-IN CEILING IN MDF ROOM. PRESERVE DAMPER OR ANY DUCTWORK TO BE RE-USED AS A PART OF THE RELOCATION AS SHOWN.

2 RELOCATED CEILING RETURN GRILLE. PROVIDE ADDITIONAL DUCTWORK AND HANGER AS NECESSARY TO MAKE CONNECTION IN NEW LOCATION.

3 LOCATE FC-1 ABOVE DOOR TO AVOID NEW MDF ROOM EQUIPMENT, COORDINATE FINAL LOCATION WITH ARCHITECT. ROUTE CONDENSATE DRAIN PIPING ALONG WALL OR ABOVE CEILING AROUND MDF ROOM TO NEAREST PLUMBING FIXTURE. COORDINATE PIPE ROUTING TO AVOID ALL ELECTRICAL EQUIPMENT AND PANELS.

4 NO WORK REQUIRED TO MECHANICAL SYSTEMS AS A PART OF THE NEW WALL ADDITION. DURING CONSTRUCTION, ENSURE NO DAMAGE IS DONE TO EXISTING DUCTWORK, GRILLES, OR ANY EQUIPMENT ABOVE CEILING. REBALANCE AIRFLOWS AS NECESSARY TO PROVIDE CFM VALUES SHOWN IN DIFFUSER TAGS.

5 ADD ALTERNATE: PROVIDE NEW VRF FAN COIL UNIT TO SERVE EXISTING AND NEW MDF ROOMS. PROVIDE NEW SINGLE CONDENSING UNIT ON ROOF, REFRIGERANT LINES, WALL THERMOSTATS, CONDENSATE PUMP, DRAIN PIPING AND ASSOCIATED CONTROLS FOR COMPLETE SYSTEM INSTALLATION. SEE FC-2 IN EQUIPMENT SCHEDULE FOR PERFORMANCE DATA. PROVIDE SAME MAKE AND MODEL FOR FC-1 IF THIS OPTION IS SELECTED. DEMOLISH EXISTING FAN COIL, ASSOCIATED PIPING AND CONTROLS IN MDF ROOM AND PREPARE FOR INSTALLATION OF NEW EQUIPMENT.

PROJECT 2016-0251
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Drawing Title
ENLARGED PLANS - CONF. & MDF ROOM MECHANICAL

Drawing No.
M-202

SKA Project Number: 16715

Alameda County Project Number: 14028

GENERAL SHEET NOTES

A. ENCLOSE REFRIGERANT PIPING INSTALLED ON ROOF(S) OR EXPOSED TO OUTDOOR ELEMENTS INSIDE A RIGID PVC OR METAL DUCT SYSTEM, RD SERIES, AS MANUFACTURED BY RECTORSEAL, OR EQUAL.

B. PLACEMENT OF MECHANICAL EQUIPMENT SHOWN ON THIS DRAWING IS DIAGRAMMATIC. REVIEW ARCHITECTURAL DRAWINGS TO ASCERTAIN EXACT LOCATION OF ROOF CRICKETS. INSTALL EQUIPMENT TO CLEAR ALL ROOF CRICKET DRAINAGE VALLEYS AND IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS AND TO MAINTAIN REQUIRED AND RECOMMENDED CLEARANCES AROUND ALL EQUIPMENT.

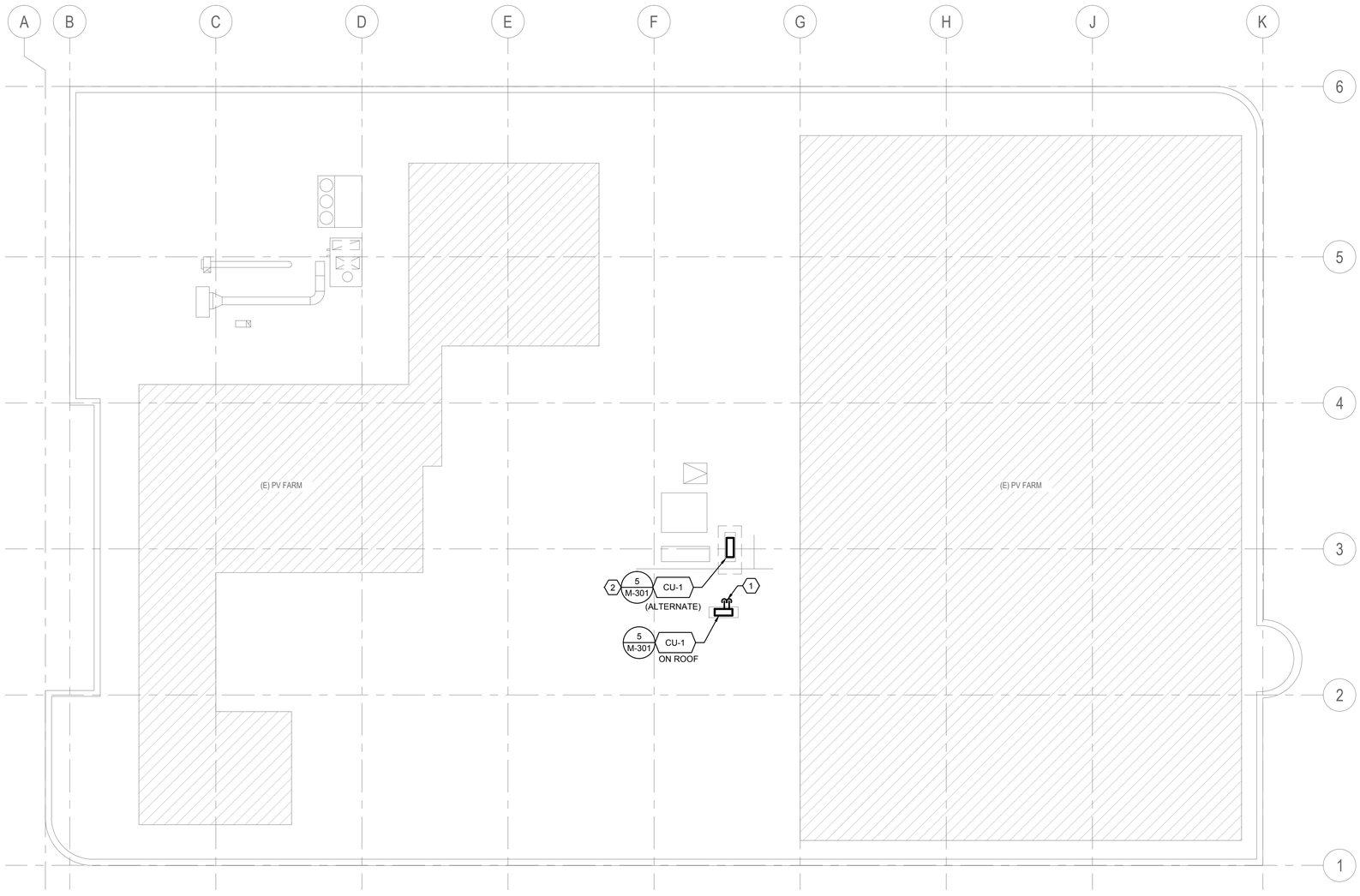
C. SEE ARCHITECTURAL DRAWINGS FOR WATER PROOFING DETAILS.

D. COORDINATE FINAL LOCATION OF EQUIPMENT, CURB, AND REFRIGERANT PIPING TO AVOID ASBESTOS HOT SPOTS. CONTRACTOR TO CONSULT WITH A STRUCTURAL ENGINEER TO VALIDATE THE APPROPRIATENESS OF THE PLACEMENT. ROUTE REFRIGERANT PIPING DOWN TO MDF BELOW. AVOID ALL ASBESTOS HOT SPOTS.

SHEET KEYNOTES

1 REFRIGERANT LINES DOWN TO NEW MDF ROOM BELOW. COORDINATE EXACT LOCATION OF ROOF PENETRATION WITH EXISTING STRUCTURE AND EQUIPMENT.

2 ADD ALTERNATE: PROVIDE NEW VRF CONDENSING UNIT TO SERVE EXISTING AND NEW MDF ROOMS. PROVIDE NEW TWO NEW FAN COIL UNITS, REFRIGERANT LINES, AND ASSOCIATED CONTROLS FOR COMPLETE SYSTEM INSTALLATION. SEE CU-1 (VRF ALTERNATE) IN EQUIPMENT SCHEDULE FOR PERFORMANCE DATA.



PROJECT NORTH

1 ENLARGED OFFICES + STORAGE PLAN

0 8' 16' 24'

SCALE: 3/32"=1'-0"

PROJECT 2016-0251
CONTACT Jonathan Larsen

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REGISTERED PROFESSIONAL ENGINEER
JONATHAN LARSEN
No. M36681
MECHANICAL
STATE OF CALIFORNIA

Date Signed: 12/19/16

NO.	DATE	ISSUE DESCRIPTION
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	12/16/16	100% CONSTRUCTION DOCUMENTS

ENVIRONMENTAL HEALTH OFFICE REMODEL

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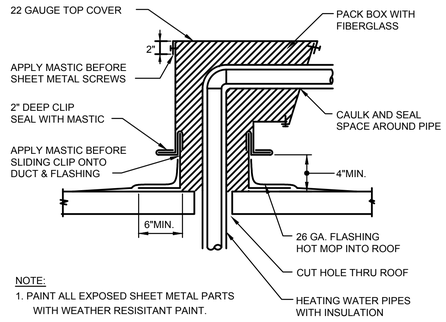
Drawing Title
ROOF PLAN - MECHANICAL

Drawing No.
M-203

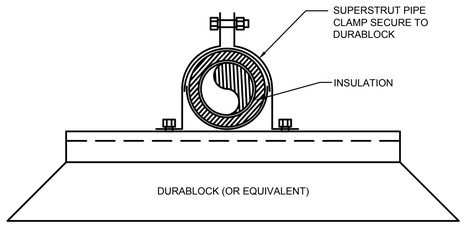
SKA Project Number: 16715

Alameda County Project Number: 14028

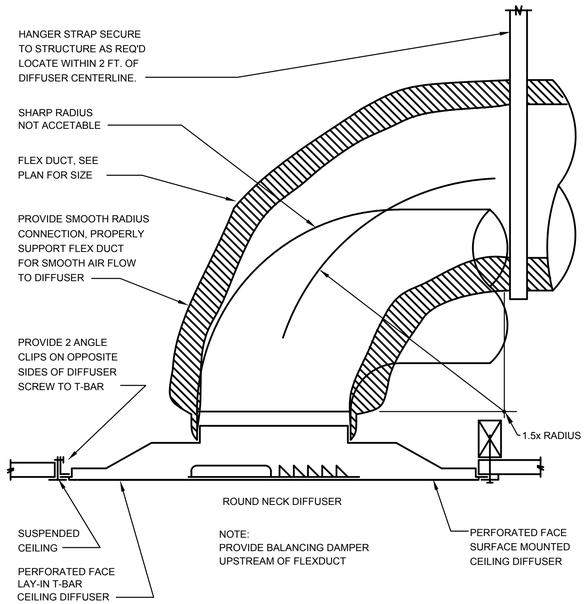


NOTE:
1. PAINT ALL EXPOSED SHEET METAL PARTS WITH WEATHER RESISITANT PAINT.

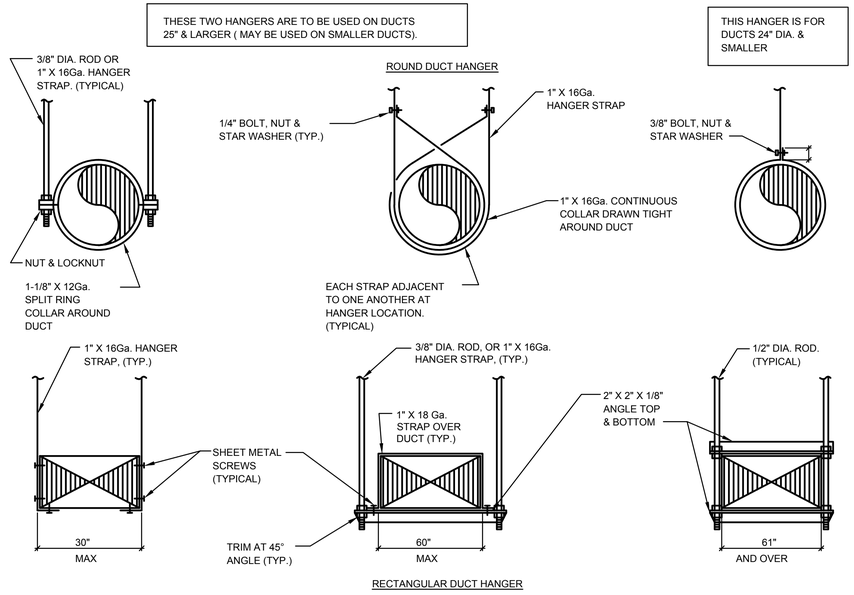
1 ROOF JACK FOR PIPES THRU ROOF
NO SCALE



2 PIPE SUPPORT DETAIL
NO SCALE



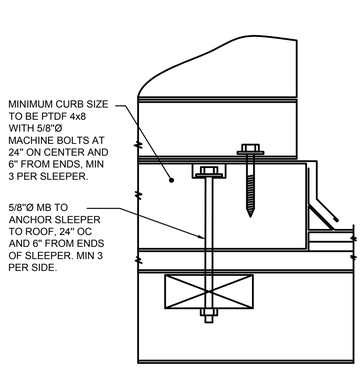
3 CEILING DIFFUSER AND REGISTER CONNECTION
NO SCALE

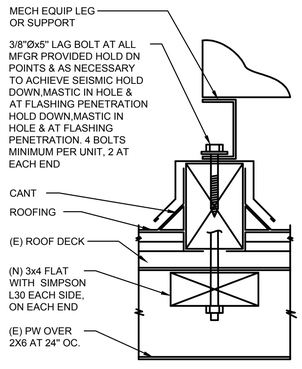


4 DUCT SUPPORT
NO SCALE

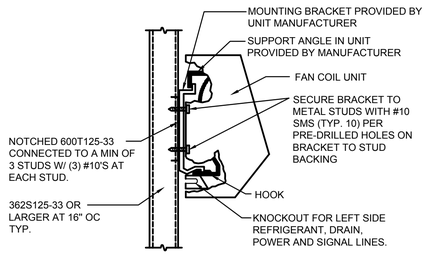
NOTES:

1. REFER TO SPECIFICATIONS FOR HANGER SPACINGS.
2. ATTACHMENTS TO OVERHEAD STRUCTURE SHALL BE MADE IN ACCORDANCE WITH STRUCTURAL ENGINEERS REQUIREMENTS AND WEIGHT LIMITATIONS. ALL ATTACHMENT METHODS TO STRUCTURE SHALL BE SUBMITTED TO ARCHITECT AND STRUCTURAL ENGINEER. MATCH EXISTING METHODS FOR BUILDING ATTACHMENT.
3. PROVIDE SWAY & SEISMIC BRACING PER THE LATEST EDITION OF CALIFORNIA BUILDING CODE. INDICATE LOCATIONS OF SEISMIC BRACING ON THE SHOP DRAWING SUBMITTALS.
4. HANGER MATERIAL SUPPORTING FLEXIBLE DUCT SHALL IN NO CASE BE LESS THAN 1 1/2 INCHES WIDE. FLEXIBLE DUCT SHALL BE SUPPORTED PER MANUFACTURER'S RECOMMENDED MATERIALS, BUT AT NO GREATER DISTANCE THAN 4 FEET MAX. PERMISSIBLE SAG IS MAX. 1/2 INCHES PER FOOT OF SPACING BETWEEN SUPPORTS.

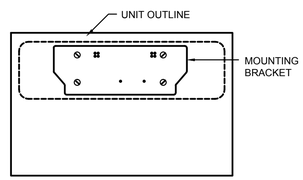




5 ROOF EQUIPMENT SUPPORT - CONDENSING UNIT
NO SCALE



SIDE VIEW



REAR VIEW

NOTE:

1. FOR DRAIN CONNECTION, ROUTE TO NEAREST PLUMBING FIXTURE, SEE EXISTING MDF ROOM FOR LOCATION OF PIPING. COORDINATE ROUTING TO AVOID ALL ELECTRICAL PANELS.

6 WALL MOUNTED FAN COIL DETAIL
NO SCALE

PROJECT 2016-0251
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Date Signed: 12/19/16

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Drawing Title
DETAILS - MECHANICAL

Drawing No.
M-301

SKA Project Number: 16715

Alameda County Project Number: 14028

ELECTRICAL SYMBOL LIST

NOTE: This is a standard symbol list and not all items listed may be used.

Abbreviations

(E)	EXISTING
(RL)	RELOCATE
A	AMPERES, AMBER
DTL	DETAIL
G, GND	GROUND
KV	KILOVOLT
KVA	KILOVOLT AMPERES
KW	KILOWATT
LED	LIGHT EMITTING DIODE
NEC	NATIONAL ELECTRIC CODE
TYP	TYPICAL
UON	UNLESS OTHERWISE NOTED

Connections / Equipment

HEAVY DUTY FUSED DISCONNECT SWITCH

J OR J — JUNCTION BOX

WALL-MOUNTED JUNCTION BOX

MOTOR STARTER

NON-FUSED DISCONNECT SWITCH

General

EXISTING WORK

NEW WORK

X / X — DETAIL NUMBER AND SHEET LOCATION

XX-X / LOCATION — EQUIPMENT IDENTIFICATION

1 — KEYED NOTE

Lighting

RECESSED 1' X 4' LUMINAIRE

RECESSED 2' X 4' LUMINAIRE

Miscellaneous

#10 / B-27,29,31. — BRANCH CIRCUIT WIRING. ARROW INDICATES HOME RUN TO PANEL WITH CIRCUITS AS NOTED. WIRE SIZE IS #12 AWG MINIMUM UNLESS NOTED OTHERWISE. SHORT TICK MARKS INDICATE PHASE CONDUCTORS. LONG TICK MARKS INDICATE NEUTRAL CONDUCTORS. A SINGLE CURVED TICK MARK INDICATES INSULATED GREEN GROUND CONDUCTOR. SECOND CURVED TICK MARK INDICATES "ISOLATED GROUND" (GREEN INSULATION WITH YELLOW STRIPE) CONDUCTOR.

BRANCH PANEL

Raceways

CONDUIT/WIRING CONTINUATION

CONDUIT/WIRING STUBBED OUT WITH END CAP OR INSULATED PLASTIC BUSHING

SURFACE RACEWAY

Switches and Receptacles

DUPLEX RECEPTACLE (MULTIPLE LETTERS INDICATE MULTIPLE OPTIONS)
- A = ABOVE COUNTER
- B = CLOCK HANGER
- C = FLUSH CEILING MOUNTED
- E = EMERGENCY
- F = ARC FAULT PROTECTED BY BREAKER IN PANEL
- G = GROUND FAULT CIRCUIT INTERRUPTER
- H = HOSPITAL GRADE
- K = CHILD RESISTANT COVER
- L = ISOLATED GROUND
- P = PENDANT MOUNTED WITH CORD GRIPS. VERIFY PENDANT LENGTH
- R1 = HALF SWITCHED BY OCCUPANCY SENSOR RELAY
- R2 = FULLY SWITCHED BY OCCUPANCY SENSOR RELAY
- S = SPLIT WIRED
- T = TAMPER RESISTANT SHUTTERED RECEPTACLE
- U = USB PORT(S)
- W = WEATHERPROOF CONTINUOUS USE COVER, GFCI PROTECTED, WITH WEATHER-RESISTANT RECEPTACLE

DOUBLE DUPLEX RECEPTACLE. SEE LETTER CODE LIST AT DUPLEX RECEPTACLE FOR OPTIONS

EQUIPMENT ELECTRICAL CONNECTION

SPECIAL PURPOSE RECEPTACLE. LETTER CODE DENOTES RECEPTACLE CONFIGURATION
- LX-XXR = NEMA CONFIGURATION TWIST-LOCK RECEPTACLE
- X-XXR = NEMA CONFIGURATION STRAIGHT BLADE RECEPTACLE
- P = PENDANT MOUNT WITH CORD GRIPS. VERIFY PENDANT LENGTH
- X = COORDINATE RECEPTACLE CONFIGURATION WITH EQUIPMENT BEING SUPPLIED

OCS — CEILING MOUNTED OCCUPANCY SENSOR
- P = PASSIVE INFRARED
- D = DUAL TECHNOLOGY
- U = ULTRASONIC, 360 DEG RANGE
- H = ULTRASONIC, HALLWAY PATTERN
- v (LOWERCASE) = VACANCY CONTROL DESIGNATION

SINGLE POLE SWITCH
- 2 = DOUBLE POLE SWITCH
- 3 = THREE-WAY SWITCH
- 4 = FOUR-WAY SWITCH
- a THRU z (LOWERCASE) = LUMINAIRE CONTROL DESIGNATION
- D = DIMMER
- F = FAN SPEED CONTROL
- K = KEY OPERATED SWITCH
- L = LIGHTED HANDLE
- M = MANUAL MOTOR STARTER WITH THERMAL OVERLOAD
- P = SWITCH WITH PILOT LIGHT
- S = SENTRY SWITCH
- T = INTERVAL TIMER
- W = WEATHERPROOF SWITCH
- V = LOW VOLTAGE SWITCH

Telecommunications

RACEWAY ONLY DATA OUTLET. PROVIDE DOUBLE GANG BACK BOX AND SINGLE GANG ADAPTER PLATE WITH 1" C. AND PULLSTRING TO ACCESSIBLE CEILING SPACE. SEE LETTER CODE LIST AT DATA/TELEPHONE OUTLET FOR OPTIONS.

RACEWAY ONLY DATA/TELEPHONE OUTLET. PROVIDE DOUBLE GANG BACK BOX AND SINGLE GANG ADAPTER PLATE WITH 1" C. AND PULLSTRING TO ACCESSIBLE CEILING SPACE.
(MULTIPLE LETTERS INDICATE MULTIPLE OPTIONS)
- A = ABOVE COUNTER
- C = CEILING MOUNTED ABOVE ACCESSIBLE CEILING
- F = FLUSH CEILING MOUNTED
- R = SURFACE MOUNTED ON RACEWAY

GENERAL ELECTRICAL NOTES

A. DO NOT COMMENCE INSTALLATION OF ELECTRICAL SYSTEMS AND EQUIPMENT WITHOUT RELATED SHOP DRAWING APPROVALS.

B. ELECTRICAL CIRCUITS SHALL BE INTERRUPTED ONLY WITH PRIOR WRITTEN CONSENT. SUCH INTERRUPTIONS SHALL BE PRECEDED BY ALL POSSIBLE PREPARATIONS BY THE CONTRACTOR WHICH ARE NECESSARY TO KEEP THE ELECTRICAL CIRCUITS OFF FOR A MINIMUM PERIOD IN AN EXPEDITIOUS MANNER PURSUANT WITH GOOD WORKMANSHIP. THIS INCLUDES CIRCUIT TRACING TO IDENTIFY THE ELECTRICAL LOAD BEING SERVED AND THE ORIGIN OF THE CIRCUIT.

C. PROVIDE TEMPORARY SUPPORT FOR ELECTRICAL SYSTEMS THAT REMAIN IN PLACE.

D. PROVIDE BLANK COVER PLATE FOR ABANDONED FLUSH OUTLETS.

E. WHERE DRAWINGS INDICATE EXISTING ELECTRICAL EQUIPMENT OR DEVICES TO BE RELOCATED AND/OR REUSED, REFURBISH THEM. THOROUGHLY CLEAN SUCH ITEMS. NOTIFY ARCHITECT OF ANY DEFECTS IN SUCH INSTALLATIONS. REPAIR ANY DAMAGE CAUSED BY DEMOLITION OR CONSTRUCTION PERFORMED UNDER THIS CONTRACT.

F. OFFER REMOVED LUMINAIRES, WIRING DEVICES, PANELBOARDS AND EQUIPMENT TO THE OWNER. IF OWNER CHOOSES TO RETAIN THESE ITEMS, RETURN SUCH ITEMS TO OWNER. CAREFULLY REMOVE AND DISPOSE OF ITEMS REJECTED BY OWNER FROM PROJECT SITE AND IN A LEGAL MANNER.

G. RECONNECT EXISTING LUMINAIRES NOT SHOWN ON DRAWINGS AND AFFECTED DUE TO DEMOLITION TO NEAREST AVAILABLE EXISTING LIGHTING CIRCUIT ABLE TO TAKE THE ADDITIONAL LOAD.

H. PROVIDE SUITABLE ANCHORAGE AND SUPPORT FOR ELECTRICAL EQUIPMENT IN RATED WALLS, SLABS AND CEILINGS. MOUNT DEVICES AND RACEWAYS IN ACCORDANCE WITH ESTABLISHED CODES AND SPECIFICATIONS.

I. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

J. DRAWINGS AND SPECIFICATIONS COMPLIMENT EACH OTHER. REQUIREMENT BY EITHER INFERS REQUIREMENT BY BOTH.

K. CONNECT EQUIPMENT AND DEVICES FURNISHED UNDER OTHER DIVISIONS OF THIS CONTRACT, BY OWNER OR BY OTHER CONTRACTS.

L. UNLESS OTHERWISE NOTED, PROVIDE CONCEALED AND FLUSH MOUNTED INSTALLATION OF DEVICES AND EQUIPMENT IN AREAS.

M. PROVIDE SEPARATE EQUIPMENT GROUNDING CONDUCTOR IN 120 VOLT, MULTI-WIRE CIRCUITS.

N. FOR 120 VOLT, 20 AMP CIRCUITS, WHERE CIRCUIT DISTANCE FROM PANELBOARD TO FARTHEST DEVICE/FIXTURE EXCEEDS 75 FEET, PROVIDE #10 SIZE CONDUCTOR.

O. RUN ELECTRICAL CONDUIT CONCEALED AND PARALLEL TO BUILDING LINES. VERIFY WITH ARCHITECT.

P. RECEPTACLE OUTLETS SHALL COMPLY WITH CEC SECTION 210.7.

Q. LIGHTS, SWITCHES AND CONTROL MECHANISMS SHALL COMPLY WITH CEC SECTION 404.

R. BRACE ELECTRICAL EQUIPMENT TO RESIST A HORIZONTAL FORCE THAT ACT IN ANY DIRECTION. COMPLY WITH TITLE 24 REQUIREMENTS.

S. INSTALL COMPLETE SYSTEM OF CONDUCTORS IN RACEWAY SYSTEM THROUGHOUT BUILDING FOR FEEDERS, BRANCH CIRCUITS, ETC.

T. ALL WORK ON SERVICE CONDUCTORS, FEEDERS, AND OTHER SUCH EQUIPMENT SHALL BE DONE ONLY WHEN SUCH CONDUCTORS, FEEDERS, AND EQUIPMENT ARE DE-ENERGIZED. THE CONTRACTOR SHALL HAVE AN "ELECTRICAL SAFETY AND LOCK-OUT/TAG-OUT PROCEDURE" IN PLACE PRIOR TO COMMENCEMENT OF WORK.

U. OCCUPANCY SENSOR NOTES:

1. WALL SENSORS
   A. SENSOR MUST HAVE CLEAR "VIEW" OF OCCUPANTS. WHERE SENSOR WILL BE BLOCKED, SUBSTITUTE WITH SMALL-ROOM CEILING SENSOR.
2. SEE MANUFACTURER'S SPECIFICATION REGARDING PLACING SENSORS AWAY FROM STRONG AIR-FLOW. INDICATE PRECISE LOCATION OF EACH CEILING SENSOR WHERE DRAWINGS INDICATE AIR SUPPLIES.
3. IN INDIVIDUAL ROOMS WITH CEILING SENSORS AND DUAL-LEVEL LIGHTING, ASSUME TWO TOGGLE SWITCH OVERRIDES PER ROOM.
4. PRIOR TO INSTALLATION, RECEIVE FACTORY-TRAINING AND LAYOUT-ASSISTANCE. IF LOCAL AGENT CHANGES LIGHTING DRAWINGS, CONTACT FACTORY REPRESENTATIVE.

V. PROVIDE DEFERRED APPROVAL AND DESIGN BUILD FOR ANY REQUIRED MODIFICATION TO THE EXISTING FIRE ALARM SYSTEM. SUBMIT COMPLETE DRAWINGS TO THE FIRE MARSHAL FOR APPROVAL AND ASSUME FULL RESPONSIBILITY OF THE SYSTEM, DEVICE QUANTITY AND LOCATION, WIRING, PROGRAMMING AND CONTROL PANELS. COORDINATE FINAL DEVICE LOCATIONS WITH THE ARCHITECT PRIOR TO ROUGH-IN.

SHEET INDEX

PROJECT 2016-0251
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Date Signed: 12/19/16

NOTE: If this drawing is not 34"x22" it has been revised from its original size and the scales noted on drawing/details are no longer applicable.

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ENVIRONMENTAL HEALTH OFFICE REMODEL

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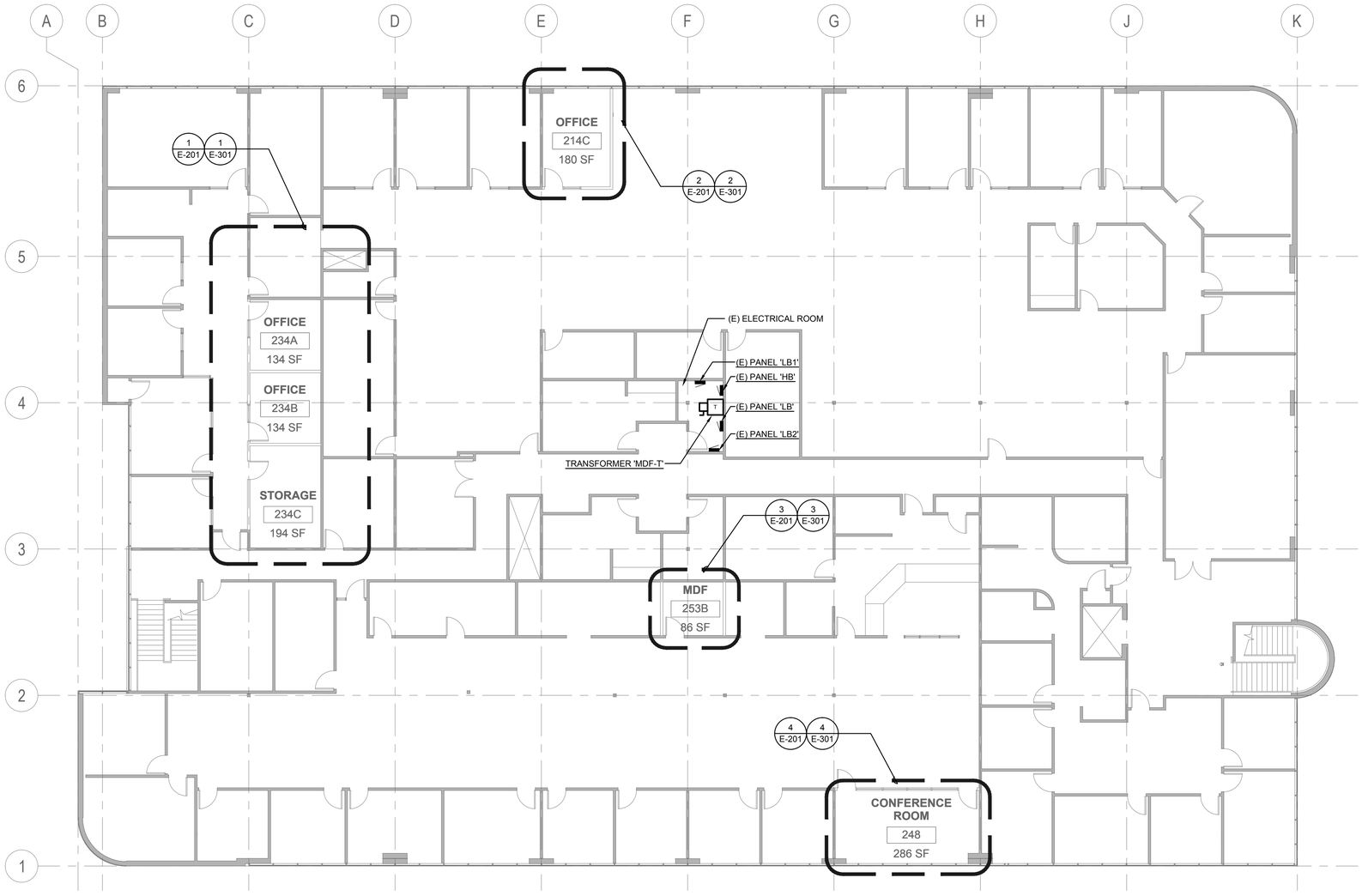
Drawing Title
SYMBOLS LIST AND GENERAL NOTES - ELECTRICAL

Drawing No.
E-001

SKA Project Number: 16715

Alameda County Project Number: 14028

FILE: 0251E-001.DWG – LAYOUT1 | EDIT: 12/19/2016 12:23 PM BY ROBINH | PLOT: 12/19/2016 1:26 PM BY JONATHAN LARSEN



PROJECT NORTH

OVERALL SECOND FLOOR PLAN - ELECTRICAL

0 8' 16' 24'

SCALE: 3/32"=1'-0"

PROJECT 2016-0251
CONTACT Joel Cruz

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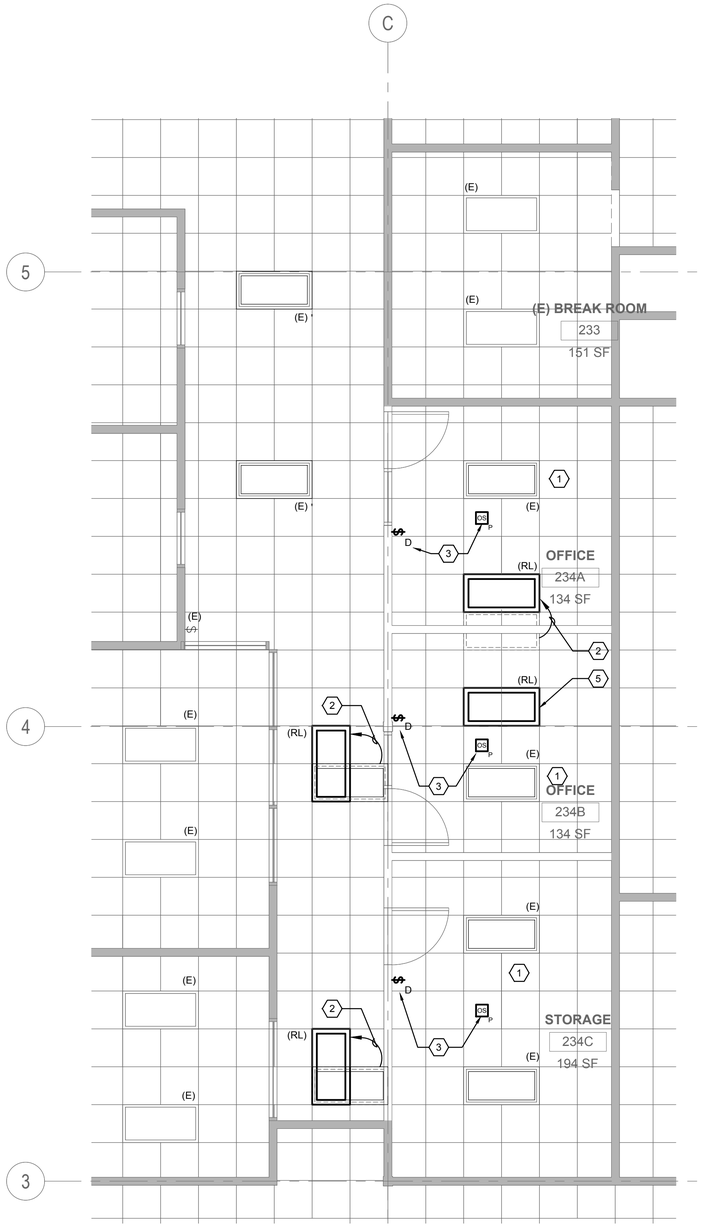
Drawing Title
OVERALL SECOND FLOOR PLAN - ELECTRICAL

Drawing No.
E-101

SKA Project Number: 16715

Alameda County Project Number: 14028

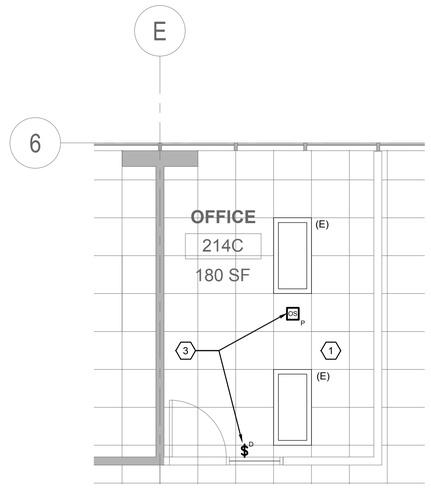


PROJECT NORTH

1 OFFICES + STORAGE PLAN - LIGHTING

0 2' 4' 8'

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

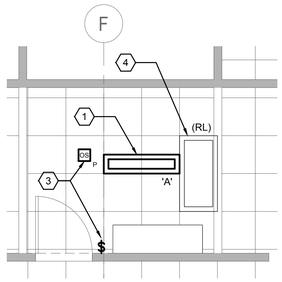


PROJECT NORTH

2 OFFICE 214 PLAN - LIGHTING

0 2' 4' 8'

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



PROJECT NORTH

3 MDF ROOM PLAN - LIGHTING

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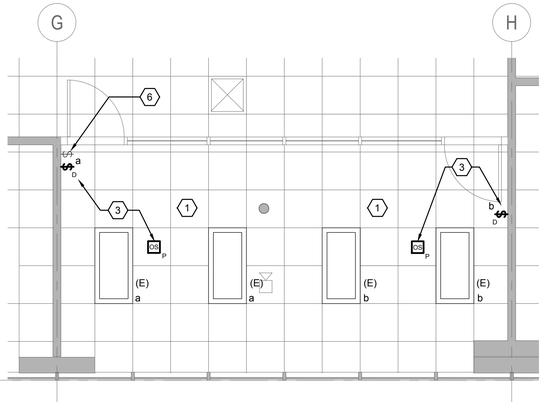
SCALE: 1/4"=1'-0"



PROJECT NORTH

4 CONFERENCE ROOM PLAN - LIGHTING

0 2' 4' 8'

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

GENERAL SHEET NOTES

A. CONTRACTOR TO ENSURE ALL EXISTING LUMINAIRES AND DEVICES TO REMAIN IN USE BUT AFFECTED BY RENOVATION WORK SHALL BE VERIFIED THAT THEY HAVE CIRCUIT CONTINUITY.

B. PROVIDE LINE VOLTAGE DIMMING SWITCHES COMPATIBLE WITH EXISTING LED LUMINAIRE DRIVERS.

SHEET KEYNOTES

1 REUSE EXISTING LIGHT CIRCUITS IN NEWLY CREATED ROOMS. ADJUST EXISTING SWITCH CONNECTIONS SO THAT THE NEW SENSOR SWITCH WILL ONLY CONTROL THE LIGHT FIXTURES IN THE NEW ROOMS.

2 RELOCATE EXISTING LIGHTING LUMINAIRE TO NEW LOCATION AS SHOWN. RECONNECT COMPLETE TO EXISTING CIRCUITRY AS REQUIRED TO PLACE BACK INTO SERVICE. EXISTING LIGHT SWITCHES SHALL CONTROL ONLY THE EXISTING LUMINAIRES OUTSIDE THE NEW ROOMS.

3 PROVIDE NEW CONTROL DEVICES TO CONTROL LIGHTING LUMINAIRES IN NEWLY ENCLOSED SPACE. ENSURE THAT NEW CONTROL DEVICES CONTROL FIXTURES IN THIS ROOM ONLY.

4 RELOCATE (E) LIGHTING LUMINAIRE TO NEW OFFICE 234B AS SHOWN ON DRAWING 1/E-201.

5 NEW LOCATION OF RELOCATED LUMINAIRE FROM MDF ROOM. INSTALL COMPLETE AS REQUIRED TO PLACE INTO SERVICE.

6 DISCONNECT AND REMOVE EXISTING LIGHT SWITCHES. EXISTING OUTLET BOX AND CIRCUITRY CAN BE REUSED FOR THE NEW LIGHTING CONTROL SCHEME.

PROJECT 2016-0251
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Date Signed: 12/19/16

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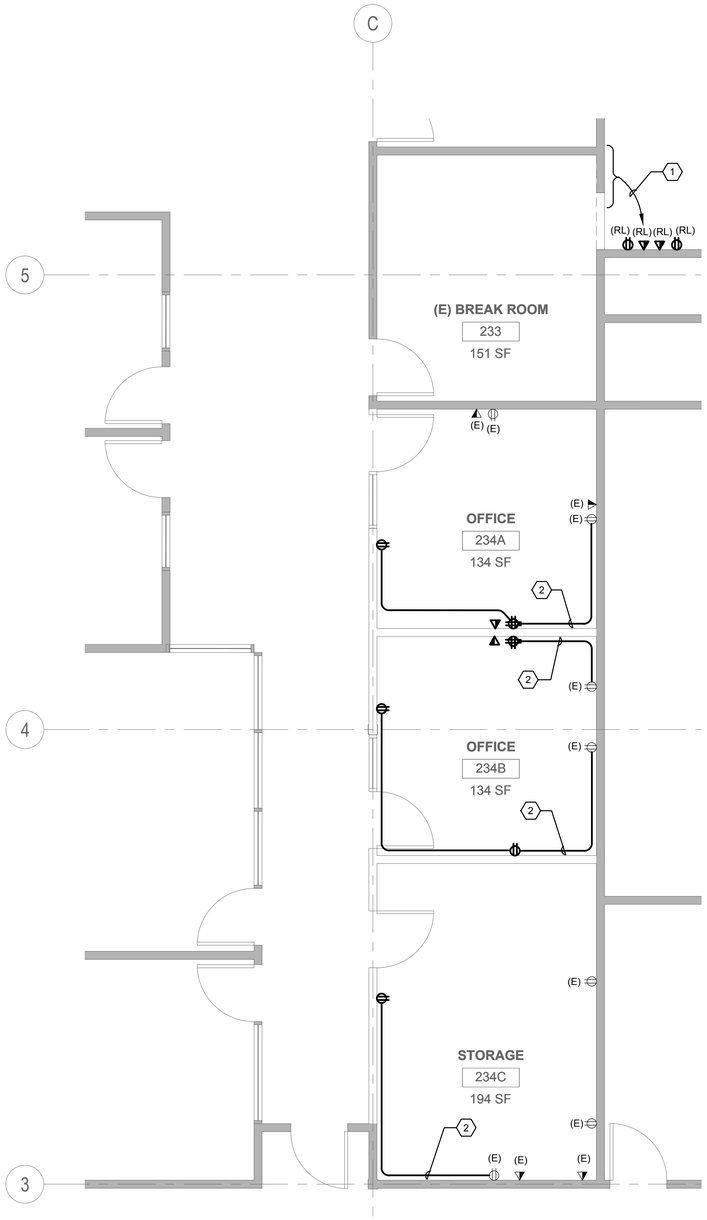
Consultant

Drawing Title
LIGHTING PLANS - OFFICES - ELECTRICAL

Drawing No.
E-201

SKA Project Number: 16715

Alameda County Project Number: 14028

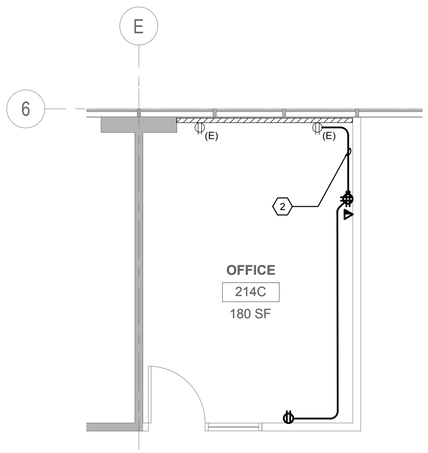


PROJECT NORTH

1 OFFICES - POWER

0 2' 4' 8'

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

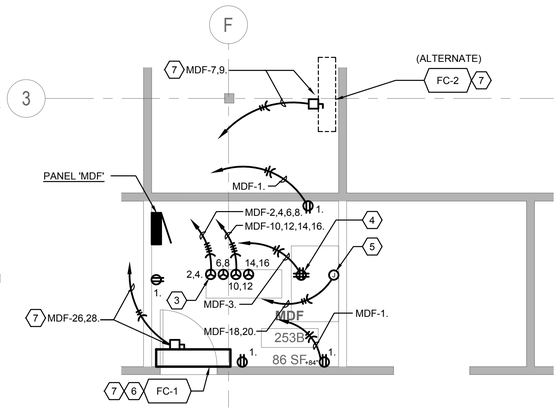


PROJECT NORTH

2 OFFICE 214 - POWER

0 2' 4' 8'

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

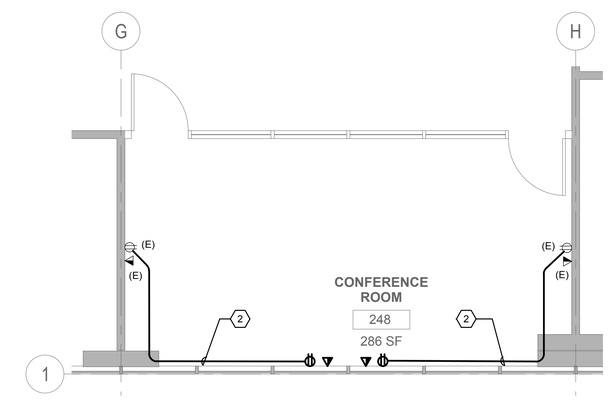


PROJECT NORTH

3 MDF ROOM PLAN - POWER

0 2' 4' 8'

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



PROJECT NORTH

4 CONFERENCE ROOM PLAN - POWER

0 2' 4' 8'

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

GENERAL SHEET NOTES

A. CONTRACTOR TO ENSURE ALL EXISTING OUTLETS AND CIRCUITS TO REMAIN IN USE BUT AFFECTED BY RENOVATION WORK SHALL BE VERIFIED THAT THEY HAVE CIRCUIT CONTINUITY.

B. NEW RECEPTACLE OUTLETS IN OFFICES WILL BE CONNECTED TO NEAREST EXISTING AVAILABLE CIRCUIT UNLESS OTHERWISE NOTED.

SHEET KEYNOTES

1 RELOCATE EXISTING RECEPTACLES AND DATA OUTLETS TO NEW LOCATION AS SHOWN. RECONNECT COMPLETE TO EXISTING CIRCUITRY AS REQUIRED TO PLACE BACK INTO SERVICE.

2 INTERCEPT AND EXTEND EXISTING CIRCUITRY TO NEW ELECTRICAL DEVICE LOCATIONS.

3 PROVIDE NEW NEMA L6-20 20A/2P TWIST LOCK TYPE OUTLET WITH DEDICATED CIRCUIT MOUNTED TO OVERHEAD LADDER RACK (TYP. OF 4).

4 PROVIDE NEW FOURPLEX NEMA 5-20 TYPE OUTLET WITH DEDICATED CIRCUIT.

5 PROVIDE NEW HARDWIRED CONNECTION FOR UPS EQUIPMENT, 50A, 208V, 1P.

6 PROVIDE POWER FOR INDOOR FAN COIL UNIT 'FC-1' FROM CONDENSING UNIT 'CU-1' ON ROOF. CONNECT COMPLETE AS REQUIRED TO PLACE INTO SERVICE. SEE SHEET E-302. COORDINATE ALL WORK WITH THE MECHANICAL SECTION PRIOR TO COMMENCEMENT OF WORK. CONTRACTORS SHALL PROVIDE ALL NECESSARY POWER CONNECTIONS AND WIRINGS AS REQUIRED BY THE MECHANICAL SECTION.

7 ADD ALTERNATE: PROVIDE POWER CONNECTION TO NEW VRF FAN COIL UNITS 'FC-1' AND 'FC-2' AS SHOWN. CONNECT COMPLETE AS REQUIRED TO PLACE INTO SERVICE. COORDINATE ALL WORK WITH THE MECHANICAL SECTION PRIOR TO COMMENCEMENT OF WORK. CONTRACTORS SHALL PROVIDE ALL NECESSARY POWER CONNECTIONS AND WIRINGS AS REQUIRED BY THE MECHANICAL SECTION.

PROJECT 2016-0251
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Date Signed: 12/19/16

NO.	DATE	ISSUE DESCRIPTION
	12/9/16	COUNTY REVIEW SET
	12/16/16	100% CONSTRUCTION DOCUMENTS

ENVIRONMENTAL HEALTH OFFICE REMODEL

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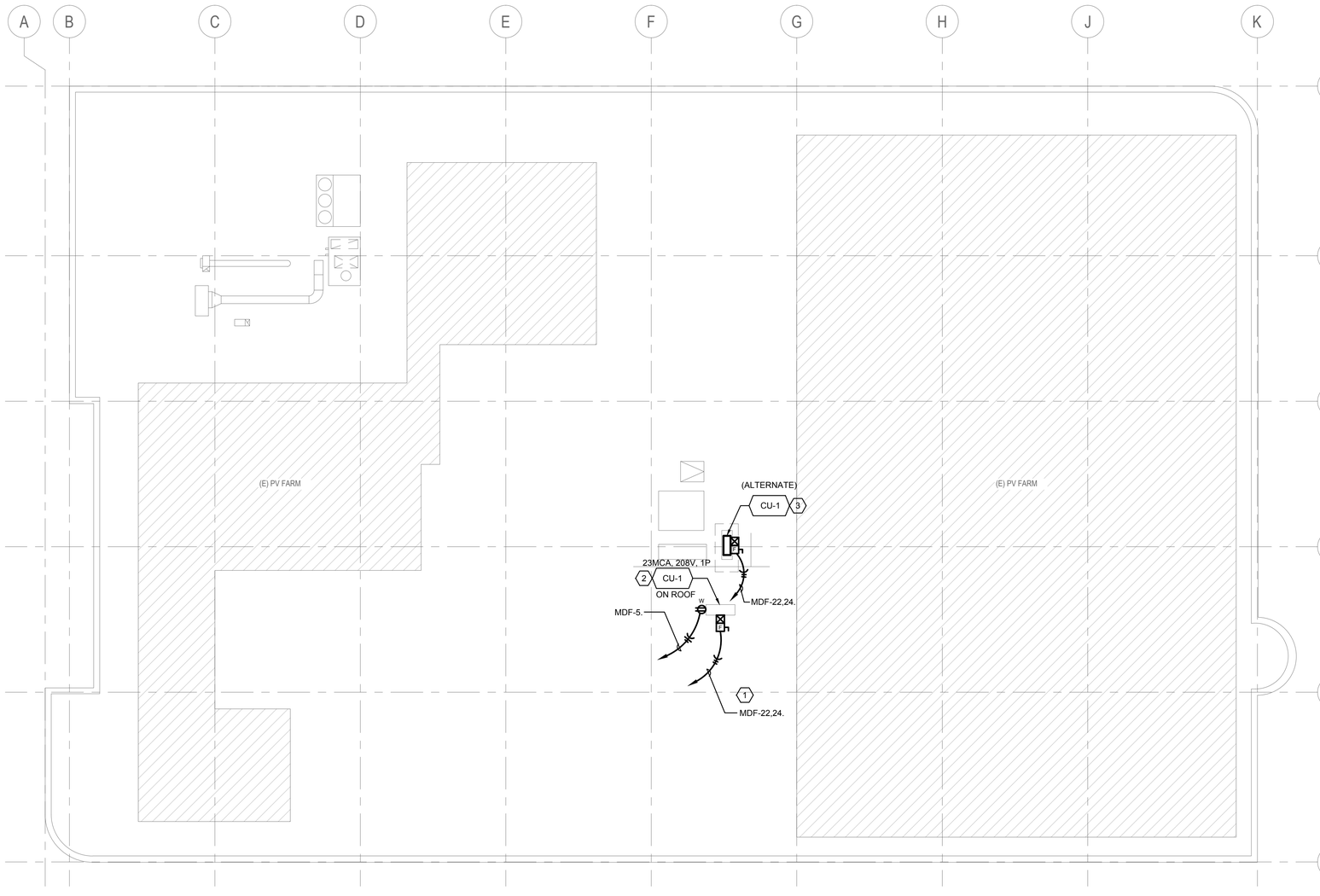
Drawing Title
POWER PLANS - OFFICES - ELECTRICAL

Drawing No.
E-301

SKA Project Number: 16715

Alameda County Project Number: 14028



PROJECT NORTH

OVERALL ROOF PLAN - POWER

0 8' 16' 24'

SCALE: 3/32"=1'-0"

GENERAL SHEET NOTES

A. REFER TO MECHANICAL DRAWING (M-203) FOR EXACT UNIT LOCATIONS.

SHEET KEYNOTES

1 2 #8 CU, 1 #10 CU GND., IN 3/4" C.

2 PROVIDE POWER FROM CONDENSING UNIT 'CU-1' TO ASSOCIATED FAN COIL UNIT 'FC-1' IN MDF ROOM. CONNECT COMPLETE AS REQUIRED TO PLACE INTO SERVICE. SEE SHEET E-301.

3 ADD ALTERNATE: PROVIDE CONNECTION TO NEW VRF CONDENSING UNIT. 2 #8CU, 1 #10CU GND., IN 3/4"C.

PROJECT 2016-0251
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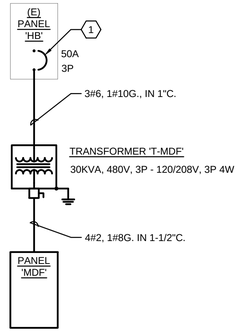
Drawing Title
OVERALL ROOF PLAN - ELECTRICAL

Drawing No.
E-302

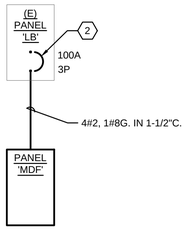
SKA Project Number: 16715

Alameda County Project Number: 14028



1 PARTIAL SINGLE LINE DIAGRAM - BASE

NO SCALE



2 PARTIAL SINGLE LINE DIAGRAM - ADD ALTERNATE

NO SCALE

SHEET KEYNOTES

1 PROVIDE 50A/3P CIRCUIT BREAKER IN EXISTING SPACE. NEW BREAKER SHALL MATCH EXISTING IN MANUFACTURER'S TYPE AND AIC RATING.

2 ADD ALTERNATE. PROVIDE 100A/3P CIRCUIT BREAKER IN EXISTING SPACE. NEW BREAKER SHALL MATCH EXISTING IN MANUFACTURER'S TYPE AND AIC RATING.

3 ADD ALTERNATE (HVAC): PROVIDE SCHEDULE AS PART OF HVAC ADD ALTERNATE. SEE SHEET E-301 AND E-302 FOR MORE INFORMATION.

2016-0251

Panel 'MDF'

120/208V, 3 Ph., 4 W.; 100A Bus with 100A Main Circuit Breaker Surface Mounted Panelboard with a minimum Available Fault rating of 10834A RMS

Ckt. No.	Description / Location	Load (VA)	Type	C.B. A/Pole	Note	Ph.	Note	C.B. A/Pole	Load (VA)	Type	Description / Location	Ckt. No.
1	RECEPTACLES / MDF RM 253B	720	R	20/1		A		20/2	360	R	RACK RECEPTACLES / MDF RM 253B	2
3	MDF ROOM EQUIPMENT / MDF RM 253B	720	C	20/1		B		-	360	R	RACK RECEPTACLES / MDF RM 253B	4
5	SERVICE RECEPTACLE / ROOF	180	R	20/1		C		20/2	360	R	RACK RECEPTACLES / MDF RM 253B	6
7	FC-2 / (E) MDF ROOM	31	H	20/2		A		-	360	R	RACK RECEPTACLES / MDF RM 253B	8
9	FC-2 / (E) MDF ROOM	31	H	-		B		20/2	360	R	RACK RECEPTACLES / MDF RM 253B	10
11	SPARE			20/1		C		-	360	R	RACK RECEPTACLES / MDF RM 253B	12
13	SPACE					A		20/2	360	R	RACK RECEPTACLES / MDF RM 253B	14
15	SPACE					B		-	360	R	RACK RECEPTACLES / MDF RM 253B	16
17	SPACE					C		50/2			UPS CONNECTION / MDF RM 253B	18
19	SPACE					A		-			UPS CONNECTION / MDF RM 253B	20
21	SPACE					B	1	40/2	1,190	H	CU-1 / ROOF	22
23	SPACE					C		-	1,190	H	CU-1 / ROOF	24
25	SPACE					A		20/2	31	H	FC-1 / MDF RM	26
27	SPACE					B		-	31	H	FC-1 / MDF RM	28
29	SPACE					C		20/1			SPARE	30

3 ADD ALTERNATE (HVAC) — rows 7 and 9

ADD ALTERNATE (HVAC) 3 — rows 26 and 28

Total Connected Load:	Ph. A	1,862 VA	16 Amps	Panel Connected Load:	7.0 KVA 19.4 Amps
Total Connected Load:	Ph. B	3,052 VA	25 Amps	Sub-Fed Connected Load:	0.0 KVA 0.0 Amps
Total Connected Load:	Ph. C	2,090 VA	17 Amps	**Total Demand Load:**	7.2 **KVA** 19.9 **Amps**

Notes:
1. Add alternate: 50A/2P breaker, 2507W per phase.

PROJECT 2016-0251
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REGISTERED PROFESSIONAL ENGINEER — JASON LAU — No. E16806 — ELECTRICAL — STATE OF CALIFORNIA

Date Signed: 12/19/16

NOTE: If this drawing is not 34"x22" it has been revised from its original size and the scales noted on drawing/details are no longer applicable.

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ENVIRONMENTAL HEALTH OFFICE REMODEL

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Drawing Title
SINGLE-LINE, FEEDER, PANEL - ELECTRICAL

Drawing No.
E-401

SKA Project Number: 16715

Alameda County Project Number: 14028

SPECIFICATIONS

DISTRIBUTION PANELBOARD

A. Manufacturers: Siemens, Square D, Eaton Electrical, General Electric, or approved equivalent.

B. Standards: Comply with requirements of UL 891, NEMA PB2 and CEC in construction of panelboards. Provide short circuit current rating (Integrated Equipment Rating, IER) for panelboards.

C. Lugs: Mechanical type.

D. Panelboards:
1. Enclosure: NEMA PB1, Type 1 or 3R as indicated on the drawings. Circuit breaker type. Maximum enclosure depth for branch circuit panelboard: 6-inches surface mounted, 5-3/4 inches for flush mounted. Maximum branch circuit panelboard enclosure width: 20 inches. Provide galvanized metal finish.
2. Interior: Copper bar with suitable electroplating (tin) for corrosion control at connection. Provide copper ground bus to accommodate specified terminal lugs. Predrill bus for bolt-on type circuit breakers. Provide double lugs and/or feed-through lugs for feed through feeders.
3. Provide fully rated integrated equipment rating greater than the available fault current. Series rated panelboards are not acceptable. See Drawings for available fault current, if Drawings do not have the available fault currents then coordinate with serving electric utility. Final AIC rating based on the protective device study completed by contractor. Minimum rating of 10,000 amps for 208V panelboards and 14,000 amps for 480V panelboards.
4. Branch Circuit Breakers:
   a. Thermal magnetic trip circuit breakers. Bolt-on type with common trip handle for poles, UL listed. Do not use tandem circuit breakers.
   b. UL listed to accept solid or stranded, copper conductors. Lugs suitable for 90C rated wire sized according to the 75C temperature rating per CEC.
   c. UL listed with the following ratings:
      1) Type SWD (Switch Duty) for lighting circuits.
      2) Type HACR (Heating, Air Conditioning, and Refrigeration) for HVAC equipment circuits.
      3) Class A ground fault interrupter circuit breakers where scheduled.
5. Cover: Concealed hinged door with door_in_door construction, metal directory frame with heavy clear plastic protector, flush lift latch and lock, two keys per panel. Key branch circuit panelboards alike. Medium light grey finish suitable for field painting to match wall finish.
6. Provide boxes with removable blank end walls and interior mounting studs. Provide interior support bracket for ease of interior installation.
7. Accessories: Provide where indicated: shunt trip, arc-fault circuit interruption (AFCI), Class A ground fault circuit interruption (GFCI), auxiliary switch and alarm switch.

OVERCURRENT PROTECTIVE DEVICES

A. Molded Case Circuit Breakers:
1. One, two or three-pole bolt on, single handle common trip, as indicated on Drawings.
2. Overcenter toggle-type mechanism, quick-make, quick-break action. Trip indication is by handle position.
3. Calibrate for operation in 40C ambient temperature.
4. 15 to 150 Amp Breakers: Permanent trip unit containing individual thermal and magnetic trip elements in each pole.
5. 151 to 400 Amp Breakers: Variable magnetic trip elements. Provide push-to-trip button on cover on breaker for mechanical tripping.
6. Greater than 400 Amp: Electronic trip type with adjustments for long-time, instantaneous, and short-time functions. Provide ground fault function for breakers greater than 400 amps.
7. Provide handle mechanisms that are lockable in the open (off) position.
8. Manufacturers: Eaton Electrical, General Electric, Siemens, Square D, or approved equivalent.

B. Distribution Panelboards]:
1. Install equipment complete as directed by manufacturer's installation instructions.
2. Install equipment in conformance with work space requirements of CEC. Locate equipment in rooms or spaces dedicated to such equipment. 6-feet 6-inches to top of panelboard. Coordinate with other Divisions of work.
3. Feeder conductors to enter directly in line with lug terminals wherever practical. Feeder conductors, except ground and neutral, not to exceed 45 degree deflection from raceway entry to feeder phase lugs.
4. Provide filler plates for unused spaces in panelboards.
5. Provide typed circuit directory for each panelboard. Include all “spaces” and “spares”. Revise directory to reflect circuiting changes and as-installed conditions. Use final Owner designated room names and numbers, and not designations shown on drawings.
6. Provide arc flash labels and engraved plastic nameplates on panelboard enclosure covers.
7. Ground and bond panelboard enclosure per CEC.
8. Measure steady state load currents at each panelboard feeder; rearrange circuits in the panelboard to balance the phase loads to within 20 percent of each other. Maintain proper phasing for multi-wire branch circuits.
9. For breakers added to existing panelboards, coordinate breaker type and short circuit rating with existing panelboard. Breakers to match existing in manufacturer's type and AIC rating. Provide new typed panelboard directory.
10. Provide two spare conduits from panel to accessible space above and below the panel. Maintain fire rating of wall.
11. Surface panels to have metal trim covers with no sharp edges or corners. Surface panel enclosure finish to match trim cover.
12. Where two or more panels are installed side-by-side, provide covers of same height with each trim independently removable without disturbing the other sections.

Distribution Panel 'LD'

2016-0251

120/208V, 3 Ph., 4 W.; 600A Bus with 500A Main Circuit Breaker Surface Mounted Panelboard with a minimum Available Fault rating of 14,000A RMS

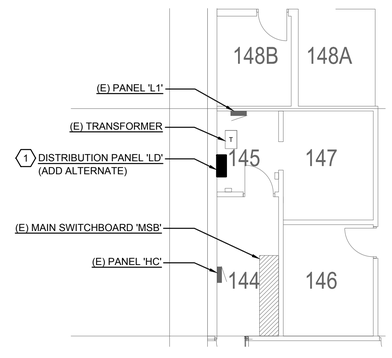
Ckt. No.	Description / Location	Load (VA)	Type	C.B. A/Pole	Note	Ph.	Note	C.B. A/Pole	Load (VA)	Type	Description / Location	Ckt. No.
1	SPARE			350/3		A		225/3			SPARE	2
3	-			-		B		-				4
5	-			-		C		-				6
7	SPARE			100/3		A		100/3			SPARE	8
9	-			-		B		-				10
11	-			-		C		-				12
13	SPARE			100/3		A		100/3			SPARE	14
15	-			-		B		-				16
17	-			-		C		-				18
19	SPACE			3P		A		3P			SPACE	20
21	-			-		B		-			-	22
23	-			-		C		-			-	24
25	SPACE			3P		A		3P			SPACE	26
27	-			-		B		-			-	28
29	-			-		C		-			-	30
31	SPACE			3P		A		3P			SPACE	32
33	-			-		B		-			-	34
35	-			-		C		-			-	36
37	SPACE			3P		A		3P			SPACE	38
39	-			-		B		-			-	40
41	-			-		C		-			-	42

Total Connected Load:	Ph. A	0 VA	0 Amps	Panel Connected Load:	0.0 KVA	0.0 Amps	
Total Connected Load:	Ph. B	0 VA	0 Amps	Sub-Fed Connected Load:	0.0 KVA	0.0 Amps	
Total Connected Load:	Ph. C	0 VA	0 Amps	**Total Demand Load:**	0.0 **KVA**	0.0 **Amps**	

1 OVERALL PLAN - FIRST FLOOR

0 8' 16' 32"

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



2 ENLARGED MAIN ELECTRICAL ROOM

0 4' 8' 16'

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

SHEET KEYNOTES

1 ADD ALTERNATE - DISTRIBUTION PANEL 'LD'
PROVIDE A 600A, 120/208V, 4P, 4W DISTRIBUTION PANEL.

PROJECT 2016-0251
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Drawing Title
ADD ALTERNATE- DISTRIBUTION PANEL "LD"

Drawing No.
E-501

SKA Project Number: 16715

Alameda County Project Number: 14028