

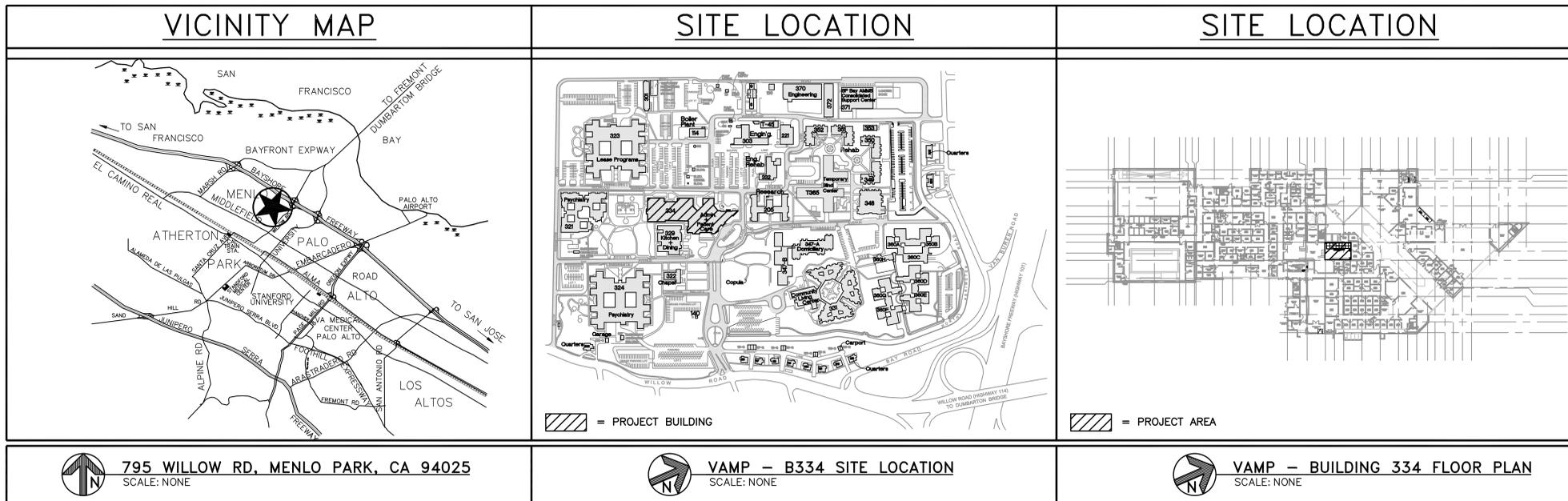
DEPARTMENT OF VETERANS AFFAIRS

RENOVATE PHARMACY FOR ROBOT INSTALLATION, B334 - MPD

MENLO PARK CAMPUS

795 WILLOW RD, MENLO PARK, CA 94025

PROJECT NUMBER: 640A0-614-107M



DRAWING INDEX	
NUMBER	DISCIPLINE
GENERAL	
334-G-10-0.0	VICINITY MAP, SITE LOCATION, DRAWING INDEX AND PROJECT DATA
334-G-10-0.1	CONTRACTOR STAGING LOCATION PLAN
334-GD-10-1.0	PHARMACY ROBOT DEMOLITION FLOOR PLAN
334-G-10-1.0	PHARMACY ROBOT INSTALLATION FLOOR PLAN
STRUCTURAL	
334-S-40-1.0	PHARMACY ROBOT SEISMIC ANCHOR PLAN AND DETAILS
MECHANICAL	
334-H-80-0.0	GENERAL NOTES, SYMBOLS, ABBREV. AND SCHEDULE
334-HD-80-1.0	FIRST FLOOR HVAC DEMOLITION PLAN
334-H-80-1.0	FIRST FLOOR HVAC PLAN
334-H-80-2.0	DETAILS

DRAWING INDEX	
NUMBER	DISCIPLINE
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334-P-70-0.9	CDA PIPING BASEMENT ENLARGED PLAN, DIAGRAM AND SCHEDULES
334-P-70-0.10	EQUIP. AND PIPING CDA BASEMENT FLOOR PLAN
334-P-70-1.0	FIRST FLOOR CDA PIPING PLAN
ELECTRICAL	
334-E-60-0.0	GENERAL NOTES, SYMBOLS AND ABBREVIATIONS
334-E-60-0.1	BLDG 334 SINGLE LINE DIAGRAM
334-E-60-0.2	BLDG 334 PANEL SCHEDULES
334-E-60-0.9	ELECTRICAL BASEMENT ENLARGED POWER PLAN
334-E-60-1.0	FIRST FLOOR POWER PLAN
334-E-60-1.1	FIRST FLOOR REFLECTED CEILING PLAN
FIRE PROTECTION	
FP-1	PARTIAL FIRST FLOOR PHARMACY PLAN

PROJECT DATA
OCCUPANCY TYPE: BUILDING 334: I-2
CONSTRUCTION TYPE: BUILDING 334: V-4
FIRE SPRINKLER STATUS: BUILDING 334: FULLY SPRINKLERED BUILDING
NUMBER OF STORIES: BUILDING 334: 1 BASEMENT BELOW GRADE 2 STORIES ABOVE GRADE
APPROXIMATE AREA OF WORK: BUILDING 334: 800 SQ. FT.

PROJECT DESCRIPTION
THE PROJECT CONSISTS OF THE PREPARATION OF THE AREA IN EXISTING PHARMACY ROOM 106, B334 TO FACILITATE THE INSTALLATION OF A NEW McKesson ROBOT-Rx APS II. THIS WILL REQUIRE THE INSTALLATION OF A NEW CLEAN DRY AIR SYSTEM TO SERVE THE NEW ROBOT WHICH WILL BE LOCATED IN THE BASEMENT MECHANICAL ROOM 110. THE ROBOT WILL REQUIRE SOME MINOR HVAC AND LIGHTING MODIFICATIONS.

APPLICABLE CODES
<ul style="list-style-type: none"> 2013 CALIFORNIA BUILDING CODE (2009 INTERNATIONAL BUILDING CODE) 2013 CALIFORNIA FIRE CODE (2009 INTERNATIONAL FIRE CODE) 2013 CALIFORNIA ELECTRICAL CODE (2011 NATIONAL ELECTRIC CODE) 2013 CALIFORNIA MECHANICAL CODE (2012 UNIFORM MECHANICAL CODE) 2013 CALIFORNIA PLUMBING CODE (2012 UNIFORM PLUMBING CODE) VA HVAC DESIGN MANUAL, LATEST EDITION VA HANDBOOK, H-18-8, SEISMIC DESIGN REQUIREMENTS, LATEST EDITION LATEST SMACNA, ADA AND OSHA REQUIREMENTS

100% CD (13-242)	1/31/14
95% CD (13-230)	1/9/14
95% SD / 50% CD (13-226)	12/18/13
Revisions:	Date

CONSULTANTS:

B334 KEY PLAN

STAMP

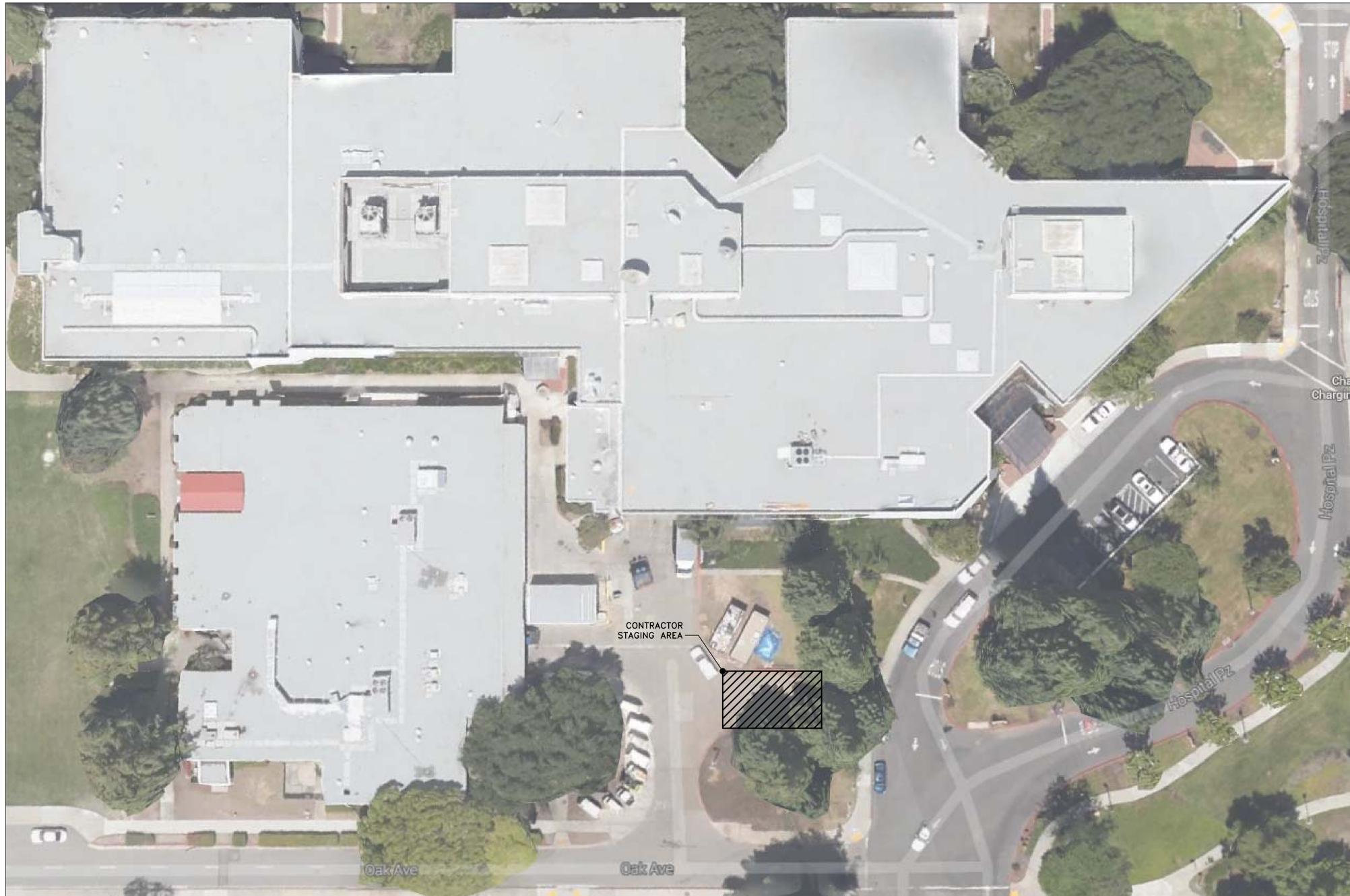
ARCHITECT/ENGINEERS:
<p>ADVANCE DESIGN CONSULTANTS, INC.</p> <p>998 PARK AVENUE SAN JOSE, CA 95126 P: (408) 297-1881 F: (408) 294-3186 www.adcengineers.com</p>
<p>ATTENTION:</p> <p>ONLY WET SIGNED DOCUMENTS CONSTITUTE ADVANCE DESIGN CONSULTANTS, INC. PROFESSIONAL WORK AND BECAUSE OTHER REPRODUCIBLE DOCUMENTS MAY BE EASILY ALTERED WITHOUT THE CONSENT OF ADVANCE DESIGN CONSULTANTS, INC., THE WET SIGNED DOCUMENTS MUST BE REFERRED TO FOR THE ORIGINAL AND CORRECT INFORMATION. IF THERE ARE ANY DISCREPANCIES BETWEEN THE WET SIGNED DOCUMENTS AND ANY OTHER DOCUMENTS, THE WET SIGNED DOCUMENTS SHALL GOVERN.</p> <p>ADVANCE DESIGN CONSULTANTS, INC. IS NOT RESPONSIBLE FOR ANY MODIFICATIONS MADE TO OUR DOCUMENTS BY ANYONE OTHER THAN AUTHORIZED REPRESENTATIVES OF ADVANCE DESIGN CONSULTANTS, INC.</p> <p>PO# 13-308-30</p>

Drawing Title
GENERAL VICINITY MAP, SITE LOCATION, DRAWING INDEX AND PROJECT DATA
Approved: Project Director

Project Title	Project Number
RENOVATE PHARMACY FOR ROBOT INSTALLATION, B334 - MPD	640A0-14-107M
Location	Building Number
MENLO PARK CAMPUS	B334
Date	Checked
12/18/2013	H. OJEDA
Drawn	J. ROTHWEN
Drawing Number	Dwg. -- of --
334-G-10-0.0	

Office of Facilities Management

Department of Veterans Affairs



BUILDING 334 CONTRACTOR STAGING PLAN
SCALE: N.T.S.

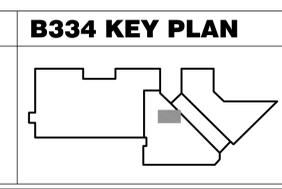
GENERAL NOTES:

- ① CONTRACTOR IS RESPONSIBLE FOR ALL COORDINATION WITH THE PROJECT MANAGER IN ADVANCE OF THE APPROVED DATE FOR INSTALLATION OF THE PHARMACY ROBOT TOOL.
- ② ALL CONDITIONS ASSOCIATED WITH ANY AREA SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO PROCEEDING WITH THE WORK IN THAT AREA.
- ③ CONTRACTOR IS RESPONSIBLE FOR THE COORDINATION OF THE CONTRACTORS TRAILER SITE LOCATION WITH THE COR BEFORE COMMENCING CONSTRUCTION.

three inches = one foot
 one and one half inches = one foot
 one inch = one foot
 three quarters inch = one foot
 one half inch = one foot
 three eighths inch = one foot
 one quarter inch = one foot
 one eighth inch = one foot

100% CD (13-242)	1/31/14
95% CD (13-230)	1/9/14
95% SD / 50% CD (13-226)	12/18/13
Revisions:	Date

CONSULTANTS:



STAMP

ARCHITECT/ENGINEERS:

ADVANCE DESIGN CONSULTANTS, INC.

998 PARK AVENUE SAN JOSE, CA 95128
P: (408) 297-1881 F: (408) 294-3186 www.adcengineers.com

ATTENTION:
ONLY WET SIGNED DOCUMENTS CONSTITUTE ADVANCE DESIGN CONSULTANTS, INC. PROFESSIONAL WORK AND SHOULD BE KEPT SEPARATE FROM OTHER DOCUMENTS. ANY CHANGES TO THESE DOCUMENTS MUST BE REFERRED TO THE ORIGINAL AND CORRECT INFORMATION. IF THERE ARE ANY DIFFERENCES BETWEEN THE WET SIGNED DOCUMENTS AND ANY OTHER DOCUMENTS, THE WET SIGNED DOCUMENTS SHALL GOVERN.
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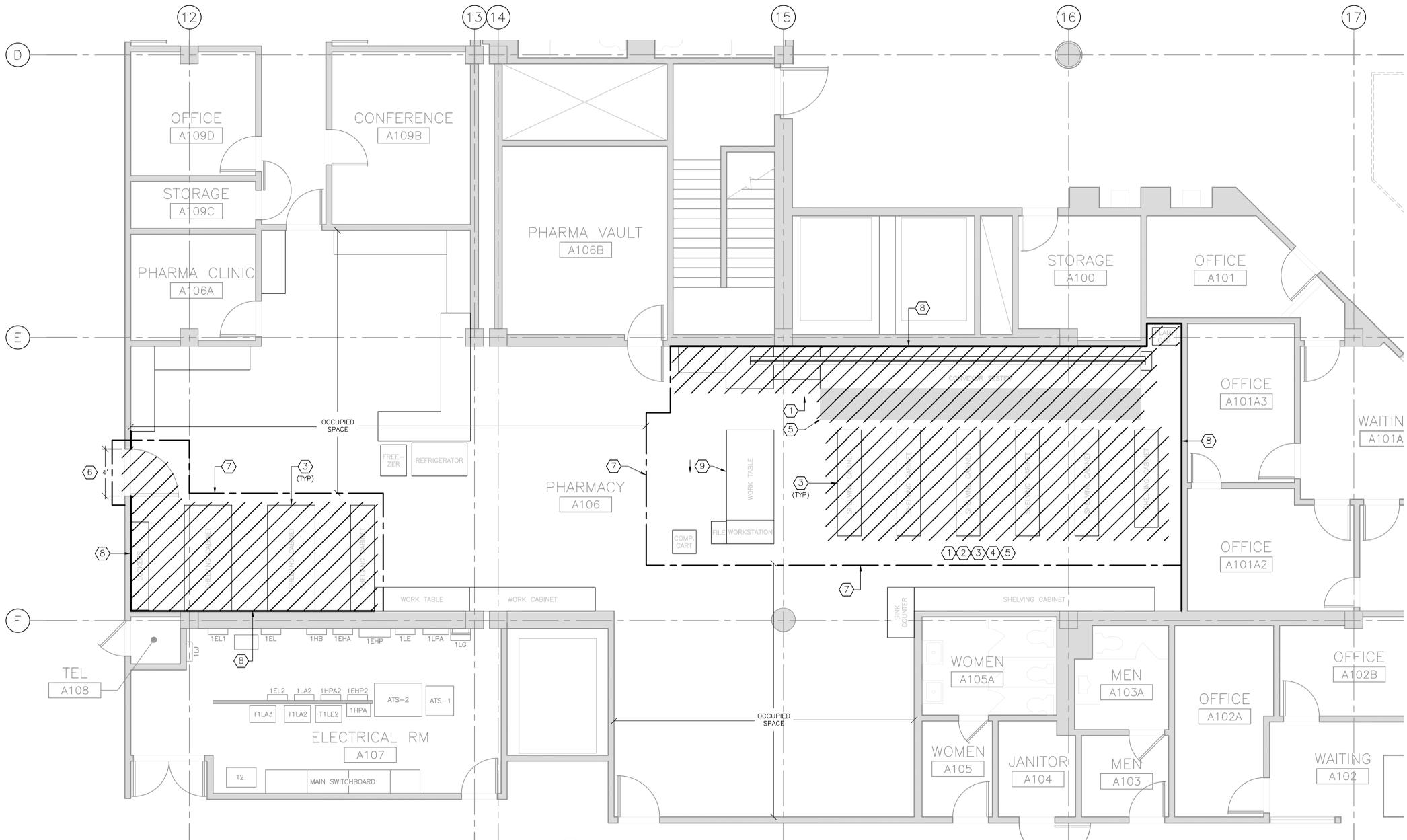
Drawing Title	GENERAL BUILDING 334 CONTRACTOR STAGING PLAN
Approved: Project Director	

Project Title	RENOVATE PHARMACY FOR ROBOT INSTALLATION, B334 - MPD
Project Number	640AO-14-107M
Building Number	B334
Location	MENLO PARK CAMPUS
Date	12/18/2013
Checked	H. OJEDA
Drawn	L.RIOS
Drawing Number	334-G-10-01
Dwg. -- of --	

Office of Facilities Management

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PHARMACY ROBOT DEMOLITION FLOOR PLAN
 SCALE: 1/4" = 1'-0"

DEMOLITION NOTES:

- ① CONTRACTOR SHALL COMPLETE REMOVE EXISTING CONVEYOR SYSTEM AND ASSOCIATED CABINETS ABOVE. THEY SHALL COORDINATE THE RELOCATION AND DEMOLITION REQUIREMENT WITH VA COR.
- ② CONTRACTOR SHALL REPAIR FLOOR TILES AS NEEDED WHEN REMOVING THE EXISTING FURNITURE TO ENSURE FLOOR IS LEVEL ± 1/16" PER MANUFACTURER RECOMMENDATIONS. REMOVE ANY ANCHORS AND PATCH/REPAIR CONCRETE AS NEEDED.
- ③ REMOVE EXISTING SHELVING CABINETS AS SHOWN IN PLAN. COORDINATE FINAL ARRANGEMENT WITH VA. PROVIDE A WEEK NOTICE FOR VA TO EMPTY SHELVING BEFORE DEMOLITION OF THE EXISTING CABINETS.
- ④ REPLACE ALL DAMAGED CEILING TILES.
- ⑤ CONTRACTOR SHALL REMOVE EXISTING RUBBER FLOOR MAT.
- ⑥ CONTRACTOR SHALL DEMOLISH 3'-0" DOOR, DOOR FRAME AND HARDWARE. CAS READER SHALL BE REMOVED AND STORED FOR FUTURE USE. SEE NEW WORK. CONTRACTOR SHALL PROVIDE TEMPORARY BARRIER AND SECURITY DURING DEMOLITION AND NEW WORK OF DOOR. A1 ALL TILE ACTIVES AFFECTING ACCESS TO PHARMACY MUST BE COORDINATED WITH THE COR., V.A.P.D., AND PHARMACY SERVICE. BARRIERS SHALL ONLY BE INSTALLED DURING NON-WORKING HOURS. PRIVATE SECURITY MUST BE IN PLACE AT ALL TIMES FROM DEMOLITION UNTIL DOOR INSTALLATION AND SECURITY ACCESS IS 100% COMPLETE AND ACCEPTED BY COR. PROPOSED TEMPORARY BARRIER MATERIAL AND LOCATION TO BE APPROVED BY COR AND SECURITY.
- ⑦ PROVIDE TEMPORARY HEAVY DUTY VISQUEEN BARRIER. NO DUST/DIRT/DEBRIS ALLOWED AT ANY TIME TO ENTER OCCUPIED SPACE. ALL HVAC SERVING CONSTRUCTION AREA SHALL BE TURNED OFF AND/OR TERMINALS TEMPORARILY DISCONNECTED AND (E) LIGHTING SHALL BE PROTECTED.
- ⑧ CONTRACTOR SHALL REPAIR OR REPLACE EXISTING COVE BASE. THEY REPAIR AND PAINT WALLS TO MATCH EXISTING PAINT AS NEEDED AFTER REMOVING (E) FURNITURE.
- ⑨ CONTRACTOR SHALL ADJUST LOCATION WORK STATION TO ALLOW FOR ROBOT CLEARANCE, MIN. 3'-0". THEY SHALL REPAIR BASECOVE, CEILING TILES AND ANY OTHER ITEMS THAT MAY BECOME DAMAGED DURING THE RELOCATION.

100% CD (13-242)	1/31/14
95% CD (13-230)	1/9/14
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CONSULTANTS:	B334 KEY PLAN	STAMP

ARCHITECT/ENGINEERS:
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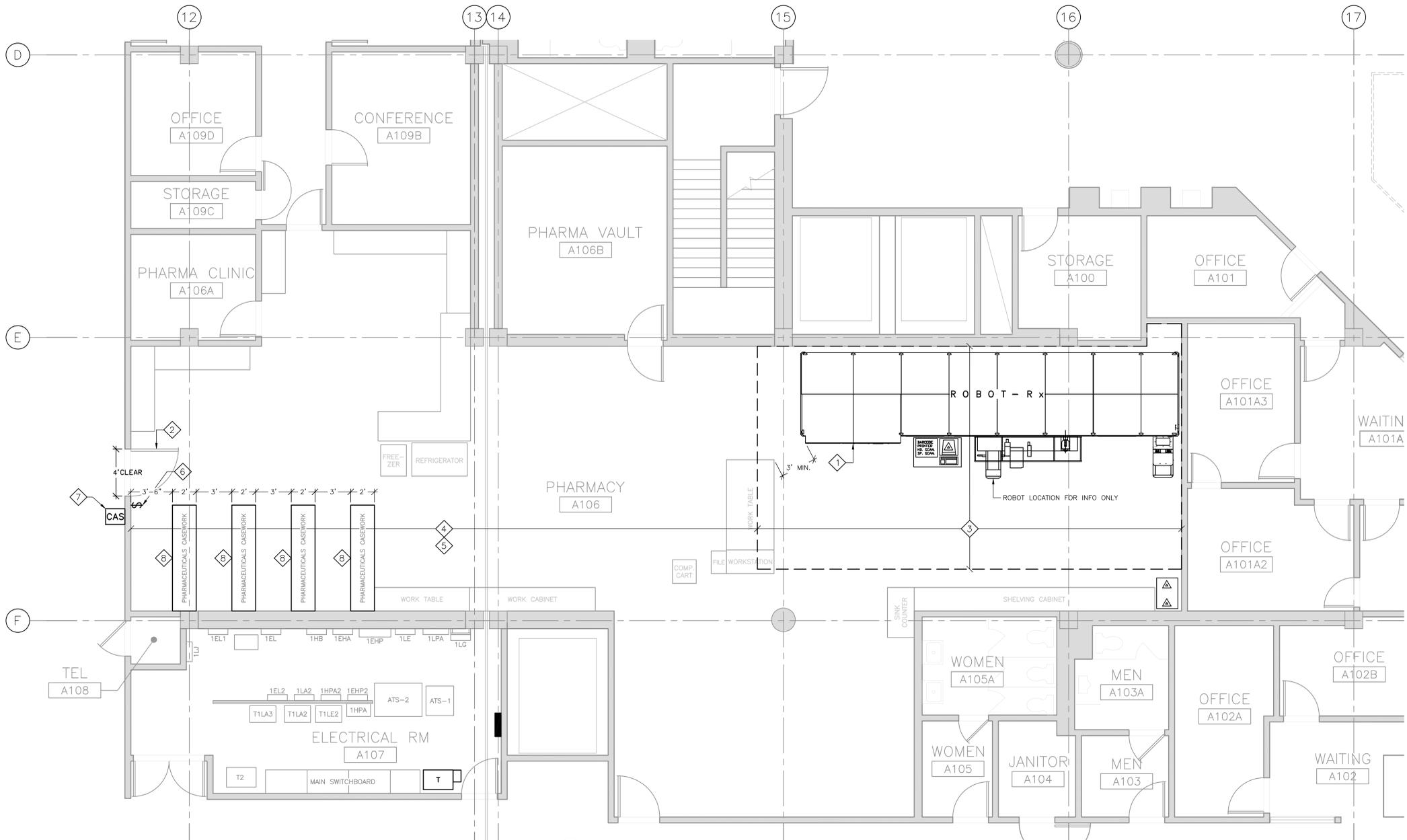
Drawing Title	Project Title
GENERAL PHARMACY ROBOT DEMOLITION FLOOR PLAN	RENOVATE PHARMACY FOR ROBOT INSTALLATION, B334 - MPD
Approved: Project Director	Project Number 640AO-14-107M
	Building Number B334
	Drawing Number 334-GD-10-10
	Dwg. -- of --

Location	Checked	Drawn
MENLO PARK CAMPUS	H. OJEDA	LRIOS
Date		
12/18/2013		

Office of Facilities Management

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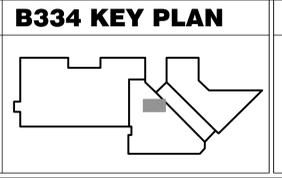


- SHEET NOTES:**
- 1 MANUFACTURER SHALL LEVEL AND RIG NEW McKesson ROBOTRX APS II ROBOT AS WHERE SHOWN IN PLAN. THIS WORK SHALL BE UNDER SEPARATE CONTRACT BETWEEN OWNER AND ROBOT MANUFACTURER.
 - 2 REPLACE EXISTING 3'-0" DOOR WITH NEW 4'-0" DOOR TO MATCH EXISTING DOORS IN BUILDING. DOOR HARDWARE SHALL BE BEST- HEAVY DUTY MORTISE LOCK SETS AS APPROVED BY VA COR AND SECURITY.
 - 3 CONTRACTOR SHALL REMOVE FLOOR COVERING IN THIS AREA. FILL IN HOLES AND INSTALL NEW RESILIENT TILE FLOORING TO MATCH EXISTING.
 - 4 CONTRACTOR SHALL REPLACE FLOOR TILES DAMAGED BY REMOVAL OF CASING IN THIS AREA, APPROXIMATELY 20% OF TILES NEED TO BE REPLACED.
 - 5 FLOOR TILES COLOR AND PATTERN SHALL MATCH EXISTING AS MUCH AS POSSIBLE.
 - 6 CONTRACTOR SHALL RELOCATE LIGHT SWITCH AS SHOWN IN PLAN.
 - 7 CONTRACTOR SHALL RELOCATE GAS READER AS SHOWN IN PLAN.
 - 8 CONTRACTOR SHALL FURNISH AND INSTALL NEW METAL PHARMACEUTICALS CASEWORK AS SHOWN IN PLAN. THEY SHALL COORDINATE WITH THE PHARMACY REPRESENTATIVE, COR, A/E AND SUPPLIER TO ENSURE THE EXACT NEEDS ARE MET.

PHARMACY ROBOT FIRST FLOOR PLAN
 SCALE: 1/4" = 1'-0"

PHARMACEUTICALS CASEWORK						
SUPPLIER	MANUFACTURER	SYSTEM	MODEL	FRAME COLOR	SHELVING COLOR	REMARKS
UNISOURCE SOLUTIONS	AURORA	QUICK-LOK STEEL SHELVING	TQ24D_5	#25 GRAY SKY	#31 HERITAGE BLUE	SHELVING SHALL BE ADJUSTABLE TYPE, HEIGHT OF UNIT SHALL NOT BE TALLER THAN 18" BELOW FROM THE BOTTOM OF EXISTING SPRINKLER HEADS. THE CONTRACTOR SHALL COORDINATE WITH PHARMACY REPRESENTATIVE AND COR FOR EXACT REQUIREMENTS. THE CONTRACTOR SHALL PROVIDE SUBMITTALS FOR COR AND A/E REVIEW. COLOR SAMPLES SHALL PROVIDED TO PHARMACY REPRESENTATIVE, COR AND A/E FOR APPROVAL.

CONSULTANTS:	
100% CD (13-242)	1/31/14
95% CD (13-230)	1/9/14
95% SD / 50% CD (13-226)	12/18/13
Revisions:	Date



Drawing Title:
 GENERAL PHARMACY ROBOT INSTALLATION FLOOR PLAN
Approved: Project Director

Project Title RENOVATE PHARMACY FOR ROBOT INSTALLATION, B334 - MPD		Project Number 640AO-14-107M	
Location MENLO PARK CAMPUS		Building Number B334	
Date 12/18/2013	Checked H. OJEDA	Drawn L. RIOS	Drawing Number 334-G-10-10
		Dwg. -- of --	

Office of Facilities Management
 Department of Veterans Affairs

SPECIFICATIONS

GENERAL:
ALL WORK SHALL CONFORM TO THE REQUIREMENTS OF THE CURRENT GOVERNING EDITION OF THE CALIFORNIA BUILDING CODE.

MACHINE BOLTS, ANCHOR BOLTS, STUDS AND THREADED RODS:
a. RODS SHALL CONFORM TO ASTM A307 GRADE A OR B OR A36.
b. NUTS SHALL BE SHOWN BELOW AND FINISH SHALL MATCH FASTENER.
FASTENER GRADE & SIZE: ASTM A36 OR ASTM A307A, 1/2" TO 3/4"
NUT CLASS: ASTM A563-A
NUT STYLE: HEX
c. STEEL IN CONTACT WITH TREATED WOOD SHALL BE, AT MINIMUM HOT DIPPED GALVANIZED PER G185 HDG PER ASTM A653; BATCH/POST HOT-DIP GALVANIZED (PER ASTM A123 FOR CONNECTORS AND ASTM A153 FOR FASTENERS), MECHANICALLY GALVANIZED FASTENERS (PER ASTM B695, CLASS 55 OR GREATER) OR STAINLESS STEEL.
CONSTRUCTION PRACTICES, THE CONSTRUCTION CONTRACTOR AND THEIR SUBCONTRACTORS WILL BE REQUIRED TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THE PROJECT, INCLUDING SAFETY OR ALL PERSONS AND PROPERTY; THAT THIS REQUIREMENT SHALL BE MADE TO APPLY CONTINUOUSLY AND NOT LIMITED TO NORMAL WORKING HOURS, AND THE CONSTRUCTION CONTRACTOR AND HIS SUBCONTRACTORS FURTHER AGREE TO DEFEND, INDEMNIFY AND HOLD THE DESIGN PROFESSIONAL HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPT LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE DESIGN PROFESSIONAL.

EXPANSION ANCHORS
EXPANSION ANCHORS SHALL BE HILTI KWIK BOLT TZ (KBTZ) WEDGE ANCHORS OR APPROVED EQUAL. CONTRACTOR SHALL TORQUE ANCHORS IN ACCORDANCE WITH ESR-1917.

SHOP DRAWINGS
FOR THE ENGINEERS REVIEW WILL BE REQUIRED AS FOLLOWS:
1. STRUCTURAL STEEL AND MISCELLANEOUS METALS, MILL CERTIFICATES, CONTRACTOR SHALL SUBMIT TWO SETS OF PRINTS AND ONE SET OF SEPAS FOR REVIEW. FABRICATION SHALL NOT PROCEED UNTIL SHOP DRAWINGS HAVE BEEN REVIEWED BY THE ENGINEER.

SUBMITTALS
FOR THE ENGINEERS REVIEW WILL BE REQUIRED AS FOLLOWS:
a. STRUCTURAL SHOP AND ERECTION DRAWINGS (PER AISC360 SEC 5 & APPENDIX W)
b. MISCELLANEOUS METAL SHOP DRAWINGS
c. WELDING PROCEDURE SPECIFICATIONS (AND PQR IF APPLICABLE)
CONTRACTOR SHALL SUBMIT TWO SETS OF PRINTS FOR REVIEW. FABRICATION SHALL NOT PROCEED UNTIL SUBMITTALS HAVE BEEN REVIEWED BY THE ENGINEER.

CONSTRUCTION LIABILITY
THE CONSTRUCTION CONTRACTOR AND THEIR SUBCONTRACTORS AGREE THAT IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, THE CONSTRUCTION CONTRACTOR AND THEIR SUBCONTRACTORS WILL BE REQUIRED TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THE PROJECT, INCLUDING SAFETY OR ALL PERSONS AND PROPERTY; THAT THIS REQUIREMENT SHALL BE MADE TO APPLY CONTINUOUSLY AND NOT LIMITED TO NORMAL WORKING HOURS, AND THE CONSTRUCTION CONTRACTOR AND HIS SUBCONTRACTORS FURTHER AGREE TO DEFEND, INDEMNIFY AND HOLD THE DESIGN PROFESSIONAL HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPT LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE DESIGN PROFESSIONAL.

SPECIAL INSPECTIONS REQUIRED

THE OWNER SHALL EMPLOY A SPECIAL INSPECTOR DURING CONSTRUCTION ON THE FOLLOWING TYPES OF WORK:

EXPANSION ANCHORS
THE SPECIAL INSPECTOR SHALL VERIFY THE FOLLOWING AND RECORD THE INFORMATION IN THE INSPECTION REPORT:
- ANCHOR TYPE, SIZE AND DIMENSIONS
- HOLE DIMENSIONS AND CLEANLINESS
- ANCHOR SPACING
- EDGE DISTANCES
- ANCHOR EMBEDMENT
- TORQUE VALUE
TORQUE SHALL BE VERIFIED BY EITHER CONTINUOUS INSPECTION DURING TORQUING OR BY TESTING ANCHORS AS FOLLOWS:
100% OF THE ANCHORS SHALL BE TESTED USING A TORQUE CALIBRATED WRENCH TO A MINIMUM OF TORQUE AS SPECIFIED IN THE ICC REPORT FOR THE ANCHOR.

SPECIAL INSPECTOR
THE SPECIAL INSPECTOR SHALL BE A QUALIFIED PERSON WHO SHALL DEMONSTRATE HIS COMPETENCE, TO THE SATISFACTION OF THE BUILDING OFFICIAL, FOR INSPECTION OF A PARTICULAR TYPE OF CONSTRUCTION OR OPERATION REQUIRING SPECIAL INSPECTION.

DUTIES AND RESPONSIBILITIES OF THE SPECIAL INSPECTOR
SPECIAL INSPECTOR SHALL OBSERVE THE WORK ASSIGNED FOR CONFORMANCE WITH THE APPLICABLE PROJECT DRAWING AND SPECIFICATIONS.

THE SPECIAL INSPECTOR SHALL FURNISH INSPECTION REPORTS TO THE BUILDING OFFICIAL, THE OWNER OR OWNER'S DESIGNATED REPRESENTATIVE, THE ARCHITECT OR PROJECT MANAGER, THE STRUCTURAL ENGINEER OF RECORD, THE CONTRACTOR AND OTHER PERSONS DESIGNATED BY THE OWNER OR OWNER'S DESIGNATED REPRESENTATIVE. ALL DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE CONTRACTOR FOR CORRECTION, THEN IF UNCORRECTED, TO THE PROPER DESIGN AUTHORITY AND TO THE BUILDING OFFICIAL.

THE SPECIAL INSPECTOR SHALL SUBMIT A FINAL SIGNED REPORT STATING WHETHER THE WORK REQUIRING SPECIAL INSPECTION WAS, TO THE BEST OF THE INSPECTOR'S KNOWLEDGE, IN CONFORMANCE WITH THE PROJECT PLANS AND SPECIFICATIONS AND THE APPLICABLE WORKMANSHIP PROVISIONS OF THE UBC.

GENERAL
THESE PROVISIONS SHALL GOVERN THE QUALITY, WORKMANSHIP AND REQUIREMENTS FOR MATERIALS COVERED. MATERIALS OF CONSTRUCTION AND TEST SHALL CONFORM TO THE APPLICATION STANDARDS LISTED.

DEFINITIONS
QUALITY CONTROL - INSPECTION BY THE CONTRACTOR BY A QUALIFIED PERSON OF MATERIAL AND WORK PERFORMED BY THE CONTRACTOR.
QUALITY ASSURANCE - INSPECTION PROVIDED BY THE OWNER BY A QUALIFIED PERSON OF MATERIAL, WORK AND QUALITY CONTROL DOCUMENTS OR PROCEDURES.
SPECIAL INSPECTION CONTINUOUS - THE FULL-TIME OR INTERMITTENT OBSERVATION OF WORK REQUIRING SPECIAL INSPECTION BY AN APPROVED SPECIAL INSPECTOR WHO IS PRESENT IN THE AREA WHERE THE WORK HAS BEEN OR IS BEING PERFORMED AND AT THE COMPLETION OF THE WORK.
SPECIAL INSPECTION, PERIODIC - THE PART-TIME OR INTERMITTENT OBSERVATION OF WORK REQUIRING SPECIAL INSPECTION BY AN APPROVED SPECIAL INSPECTOR WHO IS PRESENT IN THE AREA WHERE THE WORK HAS BEEN OR IS BEING PERFORMED AND AT THE COMPLETION OF THE WORK.
STRUCTURAL OBSERVATION - THE VISUAL OBSERVATION OF THE STRUCTURAL SYSTEM BY A REGISTERED DESIGN PROFESSIONAL FOR GENERAL CONFORMANCE TO THE APPROVED CONSTRUCTION DOCUMENTS AT SIGNIFICANT CONSTRUCTION STAGES AND AT COMPLETION OF THE STRUCTURAL SYSTEM. STRUCTURAL OBSERVATION DOES NOT INCLUDE OR WAIVE THE RESPONSIBILITY FOR THE REQUIRED INSPECTIONS.

SPECIAL INSPECTIONS
THE OWNER SHALL EMPLOY ONE OR MORE SPECIAL INSPECTORS TO PROVIDE INSPECTIONS DURING CONSTRUCTION ON THE TYPES OF WORK LISTED HERE. THE SPECIAL INSPECTOR SHALL BE A QUALIFIED PERSON WHO SHALL DEMONSTRATE COMPETENCE, TO THE SATISFACTION OF THE BUILDING OFFICIAL, FOR INSPECTION OF THE PARTICULAR TYPE OF CONSTRUCTION OR OPERATION REQUIRING SPECIAL INSPECTION.
REPORT REQUIREMENT - THE INSPECTOR OF RECORD AND SPECIAL INSPECTOR SHALL FURNISH INSPECTION REPORTS TO THE BUILDING OFFICIAL, AND TO THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE. REPORTS SHALL INDICATE THAT WORK INSPECTED WAS DONE IN CONFORMANCE TO APPROVED CONSTRUCTION DOCUMENTS. DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE CONTRACTOR FOR CORRECTION. IF THE DISCREPANCIES ARE NOT CORRECTED, THE DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE BUILDING OFFICIAL AND TO THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE PRIOR TO THE COMPLETION OF THAT PHASE OF THE WORK. A FINAL REPORT DOCUMENTING REQUIRED SPECIAL INSPECTIONS AND CORRECTION OF ANY DISCREPANCIES NOTED IN THE INSPECTIONS SHALL BE SUBMITTED AT A POINT IN TIME AGREED UPON BY THE PERMIT APPLICANT AND THE BUILDING OFFICIAL PRIOR TO THE START OF WORK.
STRUCTURAL WOOD - PERIODIC SPECIAL INSPECTION IS REQUIRED FOR NAILING OF WOOD SHEAR WALLS.

DESIGN DATA

CODE CONFORMANCE IS 2010 CALIFORNIA BUILDING CODE
TYPE OF CONSTRUCTION IS III N
OCCUPANCY TYPE OF X-X
AUTOMATIC FIRE SPRINKLERS ARE PRESENT
THE BUILDING IS X STORY
THE SCOPE OF THE CONSTRUCTION SPECIFIED HEREIN CONSISTS OF THE FABRICATION AND INSTALLATION OF SEISMIC ANCHORAGE FOR A ROBOT PHARMACY TOOL.

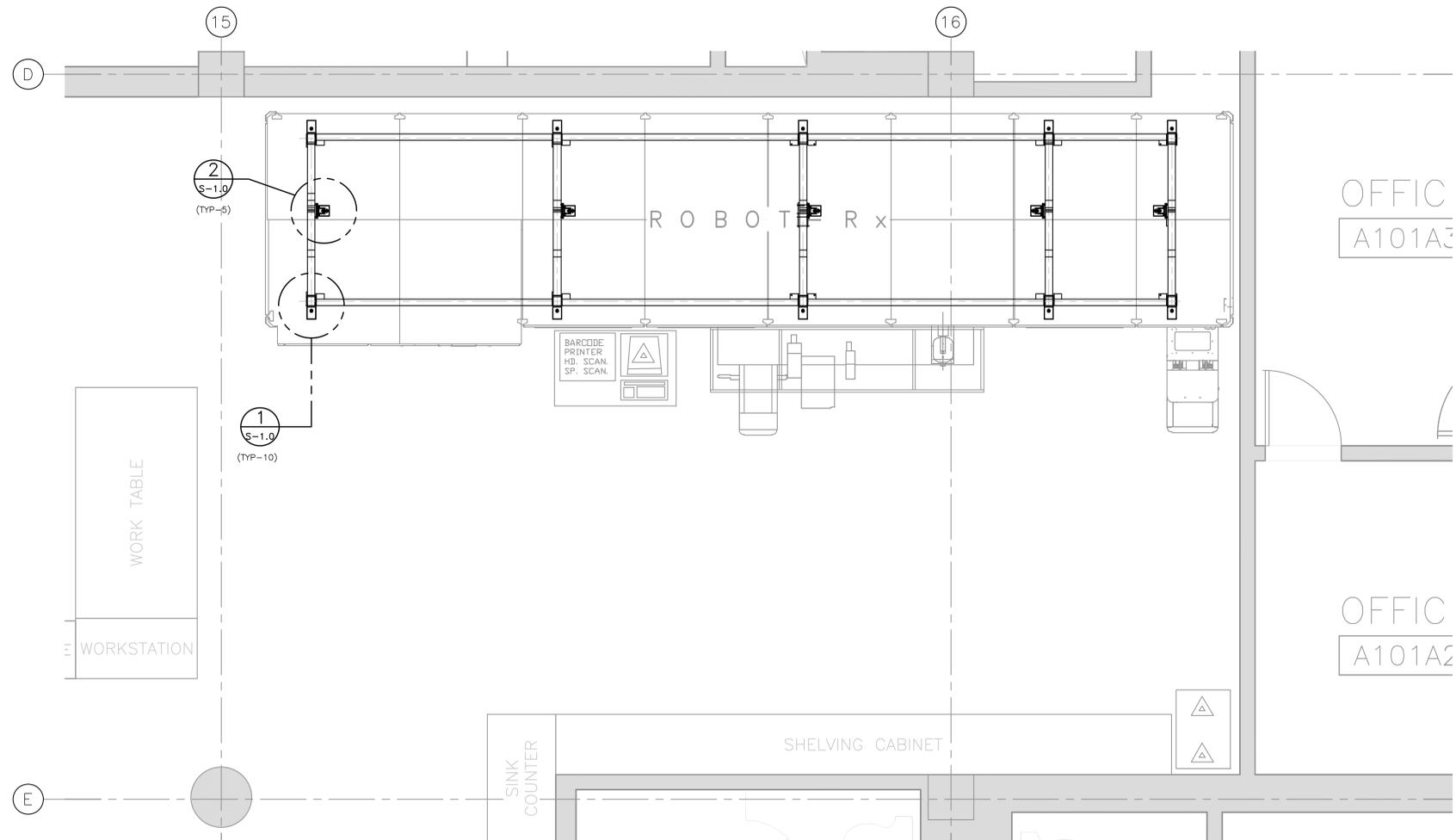
PROJECT DATA

1 PHARMACY ROBOT = 2,580 lbs.

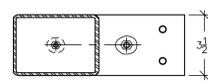
EARTHQUAKE DESIGN DATA

- Importance Factor I=1.0, Occupancy Category II.
- Mapped Spectral Response $S_s=1.50$, $S_1=0.688$
- Site Class D
- Spectral Response Coefficient(s) $S_{as}=1.00$, $S_{d1}=0.688$
- Seismic Design Category D
- Basic Seismic Force Resisting Element(s): Steel Bracing, Steel Brackets, Anchor Bolts.
- Design Base Shear: $C_s(W)=\text{Weight of Equipment}$
- Seismic Response Coefficient(s):
Horizontal = 0.8W
Vertical = 0.46W
- Response Modification Factor(s):
Equipment = $R_p=1.0$, $R_p=1.5$
- Analysis Procedure: Per ASCE 7-05 Section 13.3

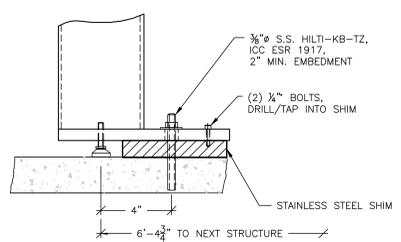
FOR REFERENCE ONLY



PHARMACY ROBOT SEISMIC ANCHOR LOCATION PLAN
SCALE: 1/4" = 1'-0"

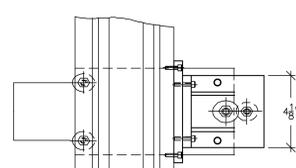


PLAN VIEW

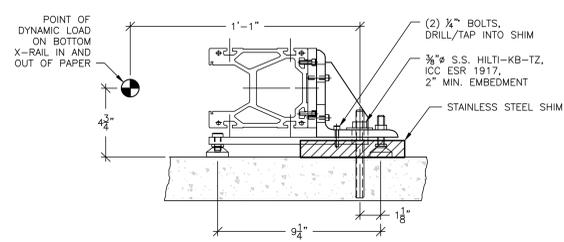


SECTION VIEW

1 LEVELING PAD AND ANCHOR DETAIL
SCALE: 1" = 1'-0"



PLAN VIEW

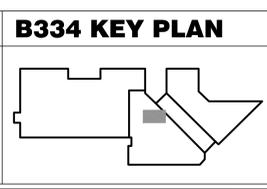


SECTION VIEW

2 LOWER X-AXIS RAIL LEVELING PAD AND ANCHOR DETAIL
SCALE: 1" = 1'-0"

100% CD (13-242)	1/31/14
95% CD (13-230)	1/9/14
95% SD / 50% CD (13-226)	12/18/13
Revisions:	Date

CONSULTANTS:



STAMP

ARCHITECT/ENGINEERS:

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Drawing Title
STRUCTURAL PHARMACY ROBOT SEISMIC ANCHOR PLAN AND DETAILS

Approved: Project Director

Date	12/18/2013	Checked	H. OJEDA	Drawn	R. SOTELO
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Project Title	RENOVATE PHARMACY FOR ROBOT INSTALLATION, B334 - MPD	Project Number	640AO-14-107M
Building Number	B334	Drawing Number	334-S-40-10
Location	MENLO PARK CAMPUS	Dwg. -- of --	

Office of Facilities Management

Department of Veterans Affairs

GENERAL NOTES

A. CONTRACTOR'S RESPONSIBILITY:

CONTRACTOR SHALL BE RESPONSIBLE FOR ALL SUBMITTALS SPECIFIED, INCLUDING SHOP DRAWINGS, EQUIPMENT DATA SHEETS WITH MATERIALS, WEIGHT, AND SIZE. CONTRACTOR SHALL VERIFY THE FIELD CONDITIONS AND MAKE ADJUSTMENT TO THE SHOP DRAWINGS AS REQUIRED. ANY CORRECTIVE MEASURE ARISING FROM A LACK OF COORDINATION WILL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR. CONTRACTOR SHALL COORDINATE WORK WITH OTHER TRADES.

B. CODE COMPLIANCE:

THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE NATIONAL, STATE AND LOCAL CODES ISSUED BY THE AUTHORITIES HAVING JURISDICTION. THE COMPLETE MECHANICAL INSTALLATION SHALL BE IN ACCORDANCE WITH THE ADOPTED EDITION OF UMC, UPC, UFC, UBC, CBC, CMC, CFC, CPC, TITLE 24, OSHA, NFPA, THE LATEST RULES AND REGULATIONS OF THE SAFETY ORDERS ISSUED BY THE DIVISION OF INDUSTRIAL SAFETY, STATE OF CALIFORNIA. THE SUBCONTRACTOR SHALL COMPLY WITH THE DIVISION OF INDUSTRIAL SAFETY, STATE OF CALIFORNIA.

C. GENERAL AND SPECIAL REQUIREMENT:

CONTRACTOR SHALL COMPLY WITH ALL PROVISIONS OF GENERAL REQUIREMENTS (010000) AND LATERAL FORCE ANCHORAGE PROVISIONS (130541). A LICENSED STRUCTURAL ENGINEER (S.E.) IN THE STATE OF CALIFORNIA SHALL PROVIDE DETAIL EQUIPMENT SUPPORT DRAWINGS AND CALCULATIONS AS REQUIRED BY SUBMITTAL SPECIFICATIONS.

D. "AS-BUILT" DRAWINGS:

THE CONTRACTOR SHALL MAINTAIN AT THE JOB SITE AN UP-TO-DATE "AS-BUILT" DRAWING SET. THE "AS-BUILT" DRAWING SET SHALL REFLECT ALL APPROVED CHANGES TO THE DESIGN DRAWINGS AND FIELD CONDITION. THE "AS-BUILT" DRAWING SET SHALL BE KEPT CLEAN AND IN GOOD CONDITION AND SHALL BE TURNED OVER TO THE COR TWO (2) WEEKS AFTER COMPLETION OF THE PROJECT.

E. FUNCTIONAL TEST AND ACCEPTANCE:

UPON COMPLETION OF THE WORK, THE CONTRACTOR SHALL SCHEDULE AND PERFORM A COMPLETE FUNCTIONAL TEST TO DEMONSTRATE TO THE COR THAT THE MECHANICAL SYSTEMS ARE OPERATING AS INTENDED. ANY DEFECTS OR DISCREPANCIES IN THE MATERIAL OR WORK SHALL BE CORRECTED IMMEDIATELY TO THE SATISFACTION OF THE COR AT NO ADDITIONAL COST. NOISY OPERATION AND/OR VIBRATION TRANSMISSION TO THE BUILDING STRUCTURE WILL NOT BE ACCEPTED.

F. GENERAL REQUIREMENTS:

- 1) THE WORK INDICATED ON THE PLANS SHALL BE CLOSELY COORDINATED WITH THE PROJECT SPECIFICATIONS AND VA CONSTRUCTION STANDARDS
- 2) CONTRACTOR SHALL COORDINATE ALL THE WORK AND INTERACTION WITH OTHER TRADES, INCLUDING MECHANICAL, ELECTRICAL, PIPING, AND STRUCTURAL.
- 3) MECHANICAL CONTRACTOR SHALL COORDINATE PENETRATIONS IN ROOF, WALLS AND FLOOR WITH THE EXISTING FIELD CONDITION FOR LOCATIONS AND DETAILS. EXAMINE BUILDING DRAWINGS AND EXISTING WORK, PRIOR TO MAKING ANY BUILDING PENETRATIONS. SEE DRAWINGS. CONTRACTOR ARE NOT ALLOWED TO CUT ANY STRUCTURAL STEEL OR WOOD MEMBER WITHOUT WRITTEN PERMISSION FROM THE PROJECT MANAGER. DUCT ROOF OPENINGS AND SUPPORT ARE PERMITTED IN THIS PROJECT.
- 4) ALL EQUIPMENT SHALL BE INSTALLED IN STRICT ACCORDANCE WITH THE EQUIPMENT MANUFACTURER'S RECOMMENDATIONS. PROVIDE ALL FITTINGS, TRANSITIONS, DAMPERS, AND OTHER DEVICES REQUIRED FOR A COMPLETE WORKABLE INSTALLATION. IN ANY INSTANCE OF DISCREPANCY BETWEEN DESIGN DRAWINGS AND MANUFACTURER'S RECOMMENDATIONS, MANUFACTURER'S RECOMMENDATIONS ARE TO GOVERN DESIGN/INSTALLATION.
- 5) ALL DUCTWORK SHALL BE CONSTRUCTED, ERECTED, AND TESTED IN ACCORDANCE WITH THE MOST RESTRICTIVE OF LOCAL REGULATIONS, PROCEDURES IN THE ASHRAE HANDBOOK OF FUNDAMENTALS, OR THE APPLICABLE STANDARDS ADOPTED BY THE SHEET METAL AND AIR CONDITIONING CONTRACTORS NATIONAL ASSOCIATION.

- 6) PROTECT THE PUBLIC FROM INJURY DURING THE ENTIRE PROGRESS OF WORK BY POSTING SIGNS, GUARD LIGHTS AND BARRICADES.
- 7) ALL EQUIPMENT, DUCTS, AND OTHER DEVICES AND MATERIALS INSTALLED OUTSIDE OF THE BUILDING OR OTHERWISE EXPOSED TO THE WEATHER SHALL BE INSULATED AND COMPLETELY WEATHERPROOFED.
- 8) INSTALL SEISMIC BRACING FOR DUCTS AND EQUIPMENT IN ACCORDANCE WITH CALIFORNIA ADMINISTRATIVE CODE, TITLE 24 AND LATERAL FORCE ANCHORAGE PROVISIONS.
- 9) DRAWINGS ARE DIAGRAMMATIC AND INDICATE GENERAL ARRANGEMENT OF SYSTEMS AND EQUIPMENT. FIELD MEASUREMENTS TAKE PRECEDENCE OVER DIMENSIONED DRAWING. COORDINATE IN FIELD AS REQUIRED TO LAYOUT NEW SYSTEMS AND EQUIPMENT SO AS NOT TO DISTURB EXISTING SYSTEMS AND EQUIPMENT TO REMAIN.
- 10) AIR BALANCE EQUIPMENT TO CAPACITY INDICATED IN EQUIPMENT SCHEDULE.
- 11) DEBRIS SHALL BE REMOVED FROM THE PREMISES ON A DAILY BASIS. DO NOT ALLOW DEBRIS TO ACCUMULATE. PROTECT ADJACENT BUILDING AREAS FROM DUST AND DEBRIS.
- 12) THE DUCT SYSTEMS SHALL BE CONSTRUCTED PER CMC 602.5 TABLES NOS. 6-1, 6-2 AND 6-3 PER CMC STANDARD 6-1 OR 6-2. FLEXIBLE FACTORY-MADE AIR DUCTS SHALL BE CLASS 0 OR CLASS 1 MEET ALL REQUIREMENTS OF CMC 604.2.
- 13) MATERIAL EXPOSED WITHIN DUCTS OR PLENUM SHALL HAVE A FLAME-SPREAD INDEX OF NOT MORE THAN 25 AND SMOKE DEVELOPED RATING OF NOT MORE THAN 50 FOR MATERIAL EXPOSED WITHIN THE DUCT/PLENUM AND/OR INSULATION MATERIALS APPLIED TO THE EXTERIOR OF THE DUCTS LOCATED IN THE BUILDING. CMC 602.2 AND/OR 605.0.
- 14) ALL NEW HVAC EQUIPMENT SHALL BE LISTED BY A NATIONALLY RECOGNIZED UL LISTED AND PROPERLY LABELED, AND PROVIDE MANUFACTURER'S CUTSHEETS AND SPECIFICATION FOR EACH UNIT.
- 15) MECHANICAL CONTRACTOR SHALL LABEL ALL PIPING AND DUCT WORKS INSTALLATION. LABEL SHALL BE INSTALLED AT EVERY 20 LINEAR FEET WITH IDENTIFICATION AND DIRECTION OF FLOW.
- 16) ALL DIMENSIONS ARE IN INCHES, UNLESS SHOWN OTHERWISE.
- 17) PROVIDE AUTOMATIC AIR VENTS IN ALL PIPING AT HIGH POINTS AND PROVIDE VALVED DRAIN CONNECTIONS AT LOW POINTS. RUN VENTS AND DRAINS TO ACCESSIBLE LOCATIONS.
- 18) BRACE ALL PIPING AND MECHANICAL EQUIPMENT AND SUPPORT IN ACCORDANCE WITH DRAWINGS AND THE LATEST SMACNA GUIDELINES.
- 19) MAKE CONNECTIONS BETWEEN COPPER AND IRON OR STEEL PIPES WITH DIELECTRIC CONNECTORS.
- 20) SEAL AROUND ALL PIPES AND DUCTS PENETRATING FIRE RATED WALLS WITH A U.L. LISTED FIRE-STOPPING SYSTEM. SEAL SMOKE TIGHT ALL PIPE PENETRATIONS.
- 21) THE CONTROL CONTRACTOR SHALL PROVIDE ALL WIRING AND CONDUIT FROM JUNCTION BOXES TO ALL CONTROL PANELS AND DEVICES PART OF THE CONTROL SYSTEM. ALL WIRING AND CONDUIT SHALL BE IN ACCORDANCE WITH THE ELECTRICAL SPECIFICATIONS.
- 22) THE CONTROL CONTRACTOR SHALL BE RESPONSIBLE FOR THE SUPPORT OF ALL CONTROL DEVICES, CONDUIT AND PANEL ASSEMBLIES AS NOTED HEREIN, AND IN THE SPECIFICATION AS REQUIRED TO PROVIDE ADEQUATE MAINTENANCE AND CLEARANCE PER CODE AND MANUFACTURE'S RECOMMENDATIONS.
- 23) DAMPER'S ACTUATORS AND CONTROL VALVES WITH ACTUATORS SHALL BE PROVIDED BY CONTROL TRADE CONTRACTOR (U.O.N.).
- 24) CONTRACTOR SHALL PROVIDE SHOP DRAWINGS AND SEQUENCE OF OPERATION FOR APPROVAL BY COR BEFORE COMMENCING THE JOB.
- 25) SEE PLUMBING DRAWINGS FOR THE ENGINE GENERATOR FUEL SYSTEM AND STORAGE TANKS.

SYMBOLS:

SYMB.	DESCRIPTION
	DUCT SIZE (CLEAR INSIDE DIMENSION) FIRST FIGURE INDICATES PLAN SIZE
	ROUND DUCT DIAMETER SIZE
	FLEXIBLE CONNECTION IN DUCT
	SUPPLY DUCT (UP & DOWN)
	EXHAUST DUCT (UP & DOWN)
	SUPPLY TOP REGISTER OR GRILLE (WALL TYPE)
	EXHAUST OR RETURN CEILING REGISTER OR GRILLE
	EXHAUST OR RETURN BOTTOM REGISTER OR GRILLE (WALL TYPE)
	EXHAUST OR RETURN REGISTER OR TOP GRILLE (WALL TYPE)
	VANED ELBOW & AIR SPLIT TYPE DUCT TAKE-OFF
	CONNECT NEW DUCT TO EXISTING DUCT
	INCLINED RISE, IN DIRECTION OF AIR FLOW
	INCLINED DROP, IN DIRECTION OF AIR FLOW
	LIMIT OF DEMOLITION
	STANDARD RADIUS ELBOW
	NEW DUCT (WIDTH x DEPTH)
	EXISTING DUCT TO REMAIN
	EXISTING DUCT TO BE REMOVED
	DAMPER

ABBREVIATIONS

ABBR.	DESCRIPTION	ABBR.	DESCRIPTION
AC	AIR CONDITIONING UNIT	HWP	HEATING HOT WATER PUMP
AH	AIR HANDLING UNIT	HWS	HOT WATER SUPPLY
AMB	AMBIENT	HWR	HOT WATER RETURN
BHP	BRAKE HORSEPOWER	HZ	HERTZ
BTU	BRITISH THERMAL UNIT	IN	INCHES
BTUH	BTU PER HOUR	LB	POUND
CFM	CUBIC FEET PER MINUTE	LDB	LEAVING DRY BULB TEMPERATURE
CU FT	CUBIC FEET	MAX	MAXIMUM
CU IN	CUBIC INCHES	MBH	THOUSAND BTU PER HOUR
CU	CONDENSING UNIT	MIN	MINIMUM
CW	DOMESTIC COLD WATER	(N)	NEW
DS	DUCT SUPPORT	N.T.C.	NOT IN CONTRACT
DB	DRY BULB	PSI	POUNDS PER SQUARE INCH
(E)	EXISTING	PS	PIPE SUPPORT
EAT	ENTERING AIR TEMPERATURE	RA	RETURN AIR
EDB	ENTERING DRY BULB TEMPERATURE	RFI	RADIATOR INTECOOLER FAN WALL
EF	EXHAUST FAN	RPM	REVOLUTIONS PER MINUTE
ELEC	ELECTRICAL	SA	SUPPLY AIR
ENT	ENTERING	SD	SMOKE DAMPER
ESP	EXTERNAL STATIC PRESSURE	DSD	DUCT SMOKE DETECTOR
F°	DEGREE FAHRENHEIT	SQ.FT.	SQUARE FEET
FPM	FEET PER MINUTE	TEMP	TEMPERATURE
FT	FEET	TSTAT	THERMOSTAT
FSD	COMBINATION FIRE/SMOKE DAMPER	TYP	TYPICAL
GPM	GALLON PER MINUTE	WB	WET BULB
HP	HORSEPOWER	WC	WATER COLUMN
RIF	RADIATOR INTERCOOLER FAN	WG	WATER GAUGE

NEW AIR DISTRIBUTION DEVICE

TAG	MANUFACTURER	MODEL	NECK SIZE	MODULE SIZE (N.)	MAX. N.C.	PATTERN	BORDER	REMARKS
LD-1	TITUS	ML-38	SEE PLAN	4' LONG MODULE	-	LINEAR SLOT	LAY-IN	MODULAR DIFFUSER WITH INTERANLLY INSULATED PLENUM. EXTRUDED ALUMINUM WITH STEEL PATTERN CONTROLLERS. COLOR TO MATCH EXISTING SLOT DIFFUSERS.
RG-1	TITUS	50F	SEE PLAN	24x24	-	-	LAY-IN	EGGCRATE RETURN GRILLE. ALUMINUM CONSTRUCTION. COLOR TO MATCH EXISTING GRILLES.

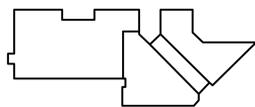
DOOR HARDWARE

MANUFACTURER	TYPE	DESCRIPTION	OUTSIDE LEVER DEADBOLT OPERATED BY:	OUTSIDE LEVER LOCKED BY:	UNLOCKED BY:	INSIDE LEVER LOCKED BY:	INSIDE LEVER UNLOCKED BY:
STANLEY	TD-DORMITORY	LOCKS ROTATION INSIDE LEVER, TURNING KEY IN OUTSIDE CYLINDER.	TURNING INSIDE TURN LEVER, ROTATING INSIDE LEVER RETRACTS DEADBOLT AND LATCH SIMULTANEOUSLY TURNING KEY IN OUTSIDE CYLINDER.	ALWAYS LOCKED	CANNOT BE UNLOCKED	CANNOT BE UNLOCKED	ALWAYS UNLOCKED
THE LATCHBOLT IS DEADLOCKED WITH AN AUXILIARY DEADLATCH.							
STANLEY 40H SERIES	LEVER-3/ROSE-R LEVER-15/ROSE-R LEVER-15/ROSE-H	STANDARD LEVERS	-	-	-	-	-

CONSULTANTS:

100% CD (13-242)	1/31/14
95% CD (13-230)	1/9/14
95% SD / 50% CD (13-226)	12/18/13
Revisions:	Date

B334 KEY PLAN



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ARCHITECT/ENGINEERS:



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PCA 13-308-30

Drawing Title
**MECHANICAL
GENERAL NOTES, SYMBOLS, ABBREV.
AND SCHEDULES**

Approved: Project Director

Project Title
**RENOVATE PHARMACY FOR
ROBOT INSTALLATION,
B334 - MPD**

Location
MENLO PARK CAMPUS

Date: 12/18/2013
Checked: L. RIOS
Drawn: J. ROTHWEIN

Project Number
640AO-14-107M

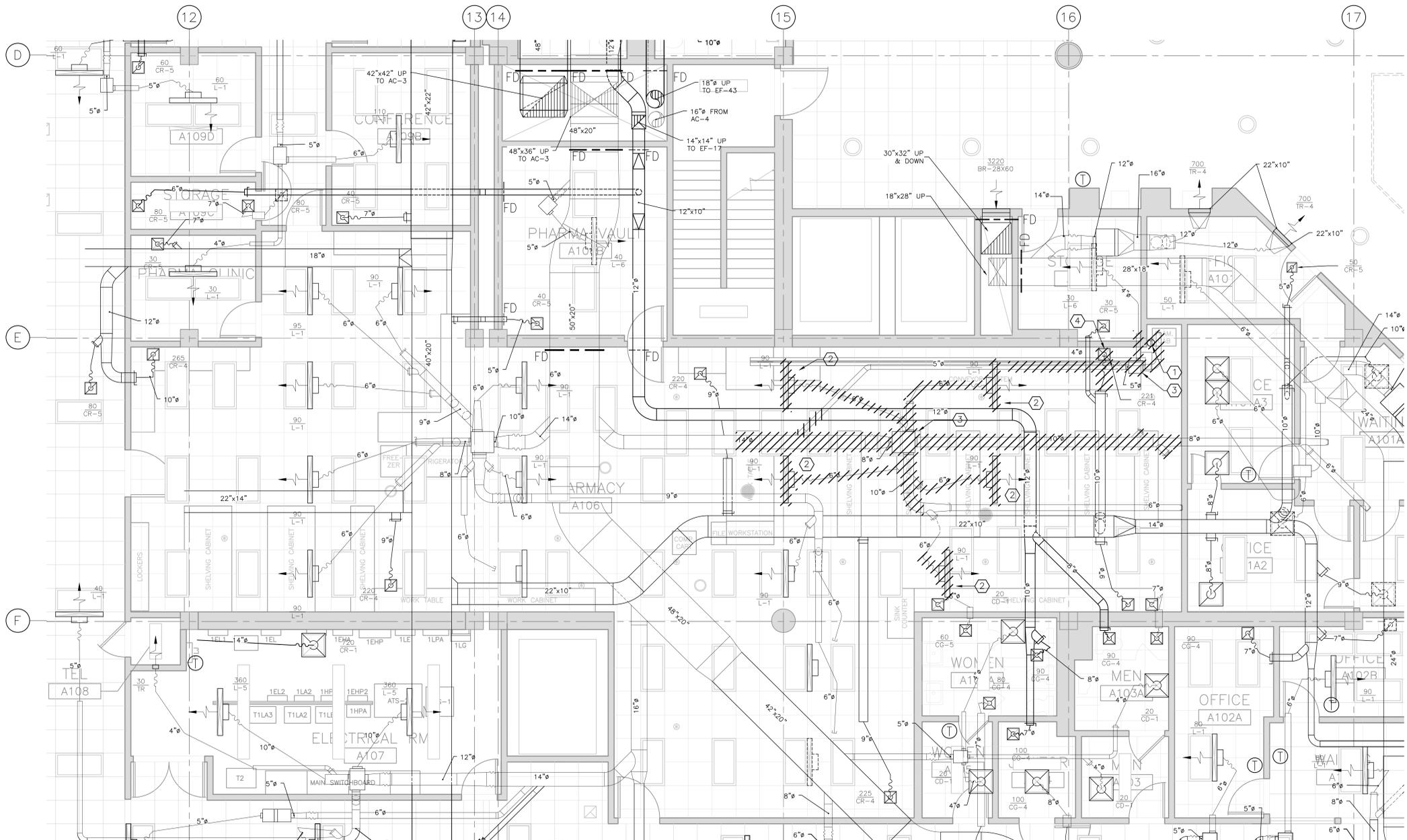
Building Number
B334

Drawing Number
334-H-80-0.0
Dwg. -- of --

**Office of
Facilities
Management**



three inches = one foot
 one and one half inches = one foot
 one inch = one foot
 three quarters inch = one foot
 one half inch = one foot
 three eighths inch = one foot
 one quarter inch = one foot
 one eighth inch = one foot

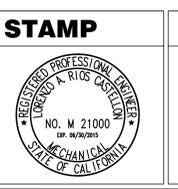
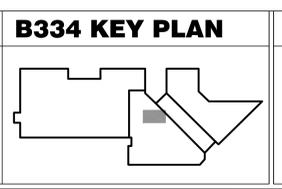


PHARMACY ROBOT FIRST FLOOR HVAC DEMOLITION PLAN
 SCALE: 1/4" = 1'-0"

- DEMOLITION NOTES:**
- RELOCATE (E) THERMOSTAT. SEE SHEET 334-H-80-1.0 FOR NEW LOCATION.
 - RELOCATE (E) SLOT DIFFUSER. SEE SHEET 334-H-80-1.0 FOR NEW LOCATION.
 - RELOCATE (E) VAV TERMINAL UNIT AND CONTROLS. SEE SHEET 334-H-80-1.0 FOR NEW LOCATION.
 - RELOCATE (E) RETURN AIR GRILLE. SEE SHEET 334-H-60-1.0 FOR NEW LOCATION.

100% CD (13-242)	1/31/14
95% CD (13-230)	1/9/14
95% SD / 50% CD (13-226)	12/18/13
Revisions:	Date

CONSULTANTS:	B334 KEY PLAN



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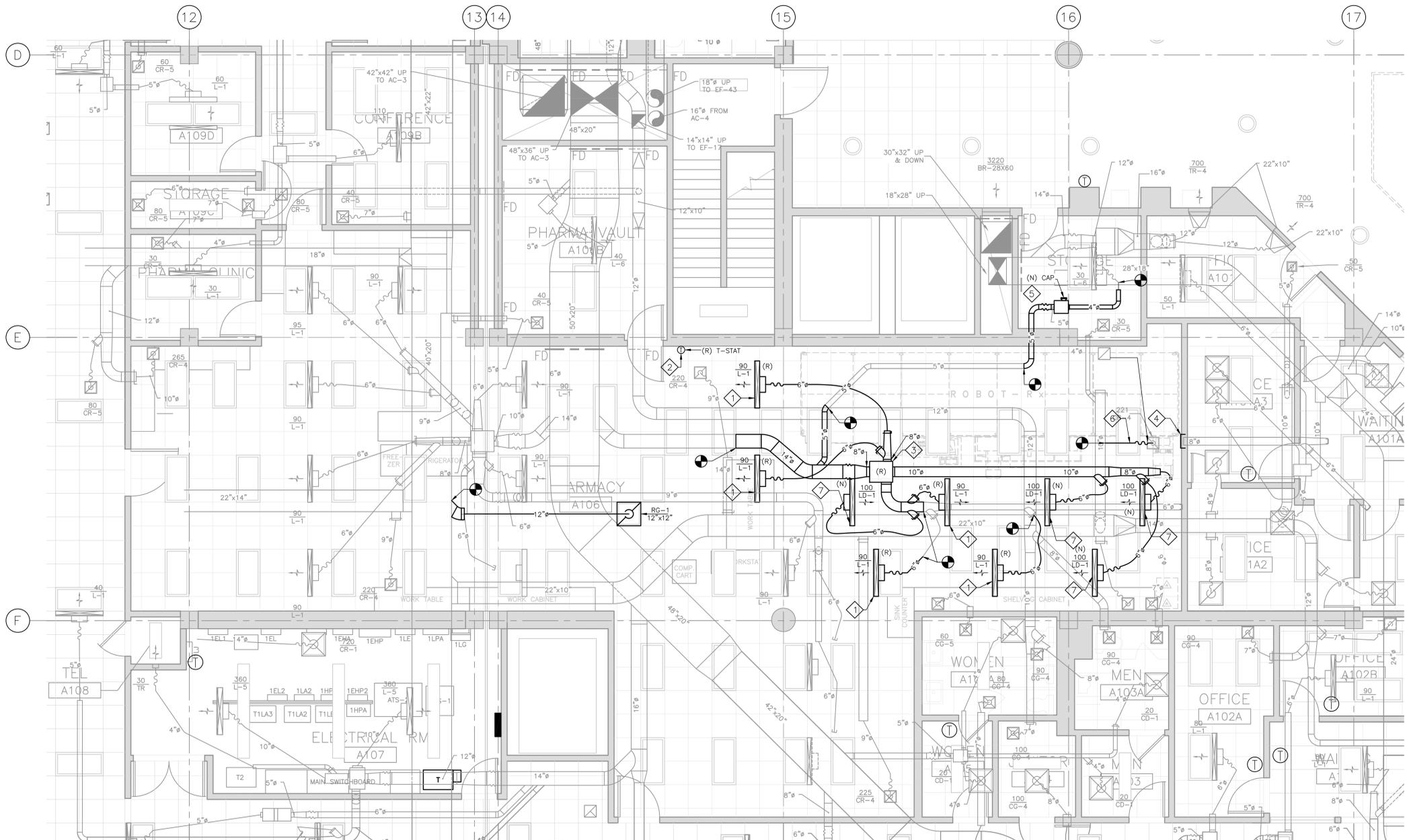
Drawing Title	MECHANICAL PHARMACY ROBOT FIRST FLOOR HVAC DEMOLITION PLAN
Approved: Project Director	

Project Title	RENOVATE PHARMACY FOR ROBOT INSTALLATION, B334 - MPD
Project Number	640AO-14-107M
Building Number	B334
Drawing Number	334-HD-80-1.0
Date	12/18/2013
Checked	H. OJEDA
Drawn	A. RAIESSI
Dwg. -- of --	

Office of Facilities Management

Department of Veterans Affairs

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 one and one half inches = one foot
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PHARMACY ROBOT FIRST FLOOR HVAC PLAN
 SCALE: 1/4" = 1'-0"

GENERAL NOTES:

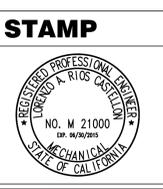
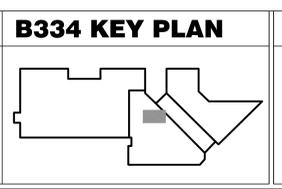
- ① CONTRACTOR SHALL LABEL CEILING GRID FOR VAV LOCATION.

SHEET NOTES:

- ① RELOCATED EXISTING SLOT DIFFUSER.
- ② RELOCATED EXISTING THERMOSTAT.
- ③ RELOCATED EXISTING VAV TERMINAL UNIT. BALANCE AT 850 CFM. LABEL GRID WITH VAV #.
- ④ CAP EXISTING DUCT ABOVE CEILING.
- ⑤ RELOCATED (E) VAV TERMINAL UNIT.
- ⑥ RELOCATE (E) RA GRILLE.
- ⑦ PROVIDE NEW SLOT DIFFUSER.

35% DESIGN DEVELOPMENT (13-236)	1/22/14
15% SCHEMATIC DEVELOPMENT (13-232)	12/12/13
CONCEPTUAL REPORT (13-203)	10/7/13
Revisions:	Date

CONSULTANTS:	B334 KEY PLAN



ARCHITECT/ENGINEERS:

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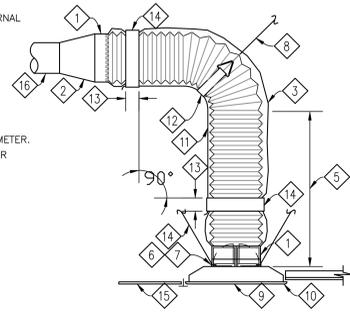
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Drawing Title	MECHANICAL PHARMACY ROBOT FIRST FLOOR HVAC PLAN
Approved: Project Director	

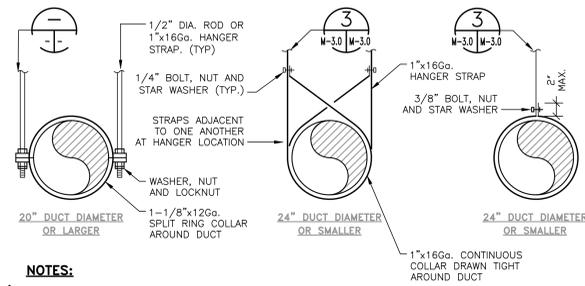
PRELIMINARY - NOT FOR CONSTRUCTION			
Project Title	B334 HVAC REPLACEMENT	Project Number	640A0-13-126M
Location	MENLO PARK CAMPUS	Building Number	B334
Date	01/22/14	Checked	H. OJEDA
		Drawn	A. RAIESSI
		Drawing Number	334-H-80-10
		Dwg. -- of --	



- 1 PEEL BACK JACKET AND SECURE TO COLLAR. USE A MIN. OF (3) SHEET METAL SCREWS AND (2) FULL WRAPS OF DUCT TAPE. PULL BACK JACKET AND APPLY (2) FULL WRAPS OF DUCT TAPE. ALTERNATE METHOD: BENDING DEVICE OR "PANDUIT" STRAP (IF APPLICABLE).
- 2 GSM DUCT TRANSITION TO DIFFUSER NECK SIZE.
- 3 FLEXIBLE DUCT
- 4 22 GA. x 1" WIDE GSM STRAP. SECURE TO STRUCTURE WITH 1/4" x 3/4" LONG LAG SCREWS AT JOISTS (2 TOTAL PER DIFFUSER).
- 5 MINIMUM OF (1) DIAMETER OF STRAIGHT RUN IS REQUIRED.
- 6 1/4"x1/2" LONG SHEET METAL SCREWS (4 TOTAL).
- 7 ANY ATTACHMENT TO DIFFUSER SHALL NOT INTERFERE WITH INTERNAL MECHANISM.
- 8 1/16 WIRE SECURE TO STRUCTURE
- 9 SUPPLY AIR DIFFUSER/ RETURN GRILLE
- 10 SURFACE MOUNTING
- 11 22 GA. GSM SADDLE WITH MINIMUM RADIUS EQUAL TO DUCT DIAMETER. WIDTH OF SADDLE 2" FOR DUCT 12" AND SMALLER. FOR LARGER DUCT ADD 1" PER EACH ADDITIONAL 6" OF DIAMETER.
- 12 SAME AS 11 BUT 2" WIDE.
- 13 2" MINIMUM BEYOND 90° ANGLE.
- 14 2" DUCT TAPE. APPLY TWO FULL WRAPS.
- 15 T-BAR MOUNTING.
- 16 BRANCH DUCT



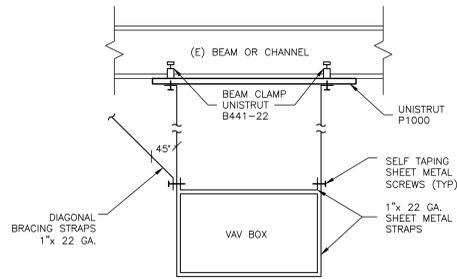
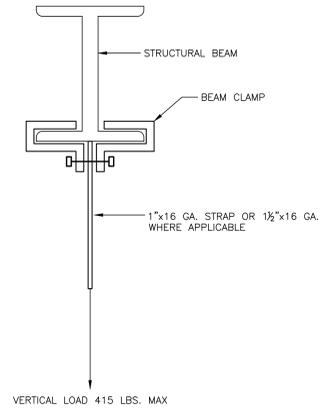
1 DIFFUSER MOUNTING DETAIL
M-2.0 | M-1.0 SCALE: NONE



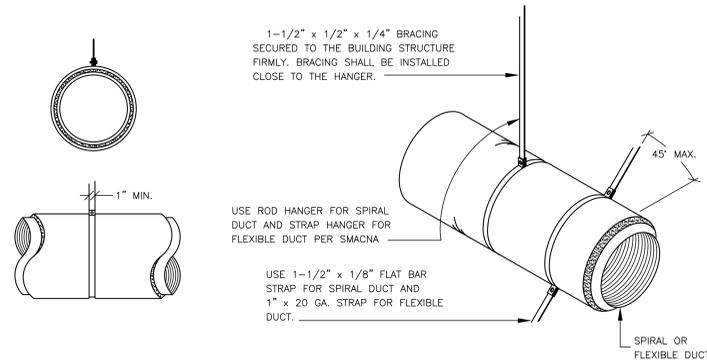
- NOTES:**
- 1 HANGER SPACING PER SMACNA
 - 2 ATTACHMENTS TO OVERHEAD STRUCTURAL SHALL BE MADE IN ACCORDANCE WITH STRUCTURAL ENGINEERS REQUIREMENTS AND WEIGHT LIMITATIONS. ALL ATTACHMENT METHODS TO STRUCTURE SHALL BE SUBMITTED TO STRUCTURAL ENGINEER FOR REVIEW.
 - 3 PROVIDE LATERAL AND LONGITUDINAL SWAY BRACING PER SMACNA SEISMIC GUIDELINES.

2 ROUND DUCT HANGER DETAIL
M-2.0 | M-1.0 SCALE: N.T.S.

3 SHEET METAL STRAP TO STRUCTURAL BEAM SUPPORT DETAIL
M-2.0 | M-2.0 SCALE: N.T.S.



3 VAV BOX SUPPORT DETAIL
SCALE: N.T.S.



5 FLEXIBLE DUCT SUPPORT
M-2.0 | M-1.0 SCALE: N.T.S.

three inches = one foot
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Revisions:	Date

CONSULTANTS:	B334 KEY PLAN	STAMP

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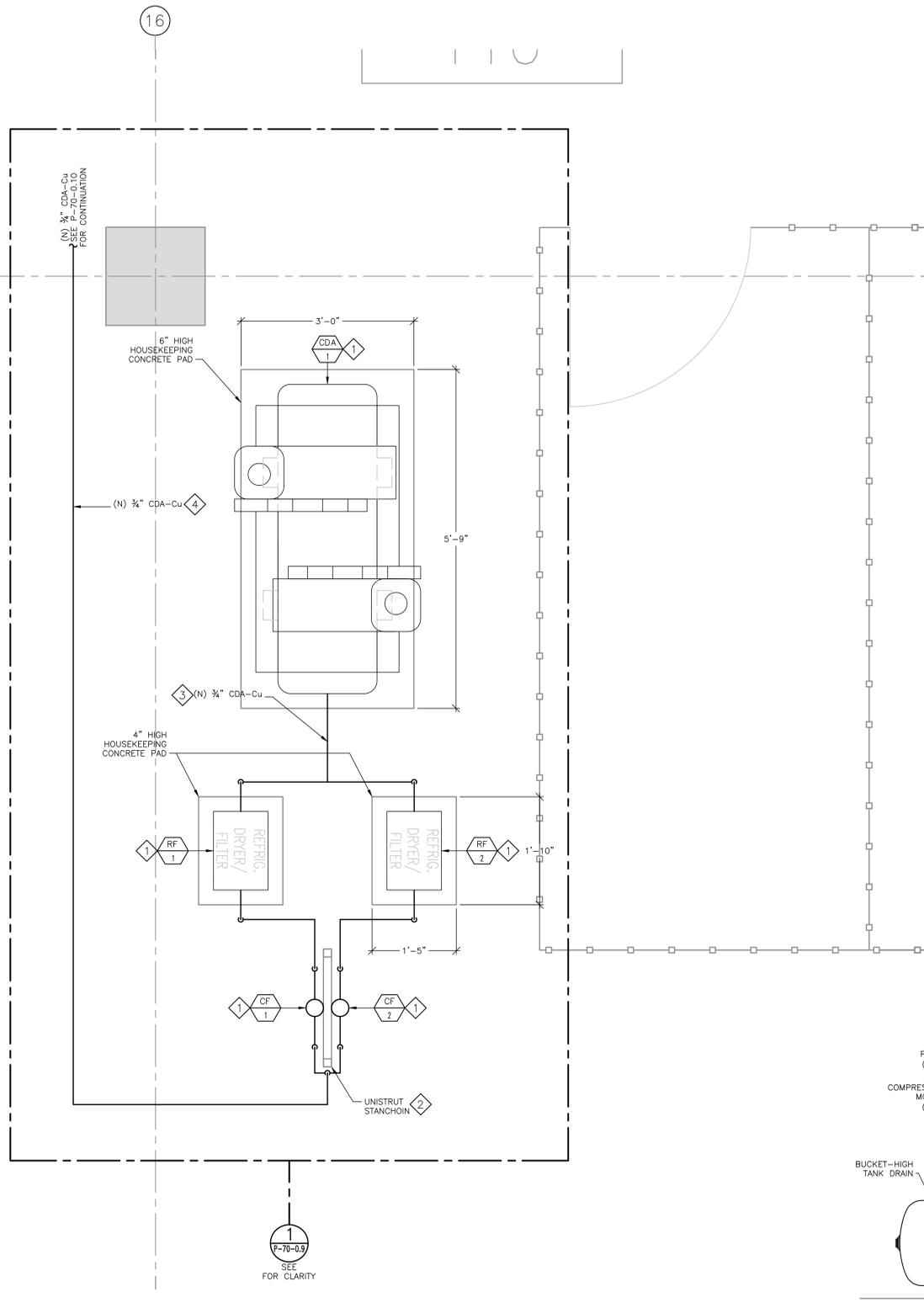
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<p>Drawing Title</p> <p>MECHANICAL DETAILS</p> <p>Approved: Project Director</p>

<p>Project Title</p> <p>RENOVATE PHARMACY FOR ROBOT INSTALLATION, B334 - MPD</p>	<p>Project Number</p> <p>640AO-14-107M</p>
<p>Location</p> <p>MENLO PARK CAMPUS</p>	<p>Building Number</p> <p>B334</p>
<p>Date</p> <p>12/18/2013</p>	<p>Checked</p> <p>L. RIOS</p>
<p>Drawn</p> <p>J. ROTHWEIN</p>	<p>Drawing Number</p> <p>334-H-80-2.0</p> <p>Dwg. -- of --</p>

Office of Facilities Management

Department of Veterans Affairs



CDA PIPING BASEMENT ENLARGED PLAN
SCALE: 1/2" = 1'-0"

SHEET NOTES:

- 1 FURNISH AND INSTALL NEW CLEAN DRY AIR COMPRESSOR SKID, REFRIGERATED AIR DRYER AND COALESCING FILTERS AS SHOWN IN PLAN.
- 2 FURNISH AND INSTALL NEW STANCHION RACK TO SUPPORT NEW COALESCING FILTERS. RACK SHALL NOT INTERFERE WITH THE REAR ACCESS OF THE REFRIGERATED AIR DRYER.
- 3 FURNISH AND INSTALL NEW 3/4" CDA-Cu AND CONNECT ALL COMPONENTS AS SHOWN IN PLAN AND DIAGRAM. ROUTE PIPING UP AND OVER AS NEEDED TO ALLOW FOR EQUIPMENT ACCESS.
- 4 FURNISH AND INSTALL NEW 3/4" CDA-Cu AND ROUTE FROM FILTER RACK OVER TO PHARMACY.
- 5 FURNISH AND INSTALL NEW 3/4" CDA-Cu "DROP" AS SHOWN IN DIAGRAM FOR ROBOT AND AB180 PACKAGER. FURNISH AND INSTALL 3/4" CDA-Cu AND VALVE FOR CONNECTION AB180 PACKAGER.

NEW CDA COMPRESSOR SKID SCHEDULE

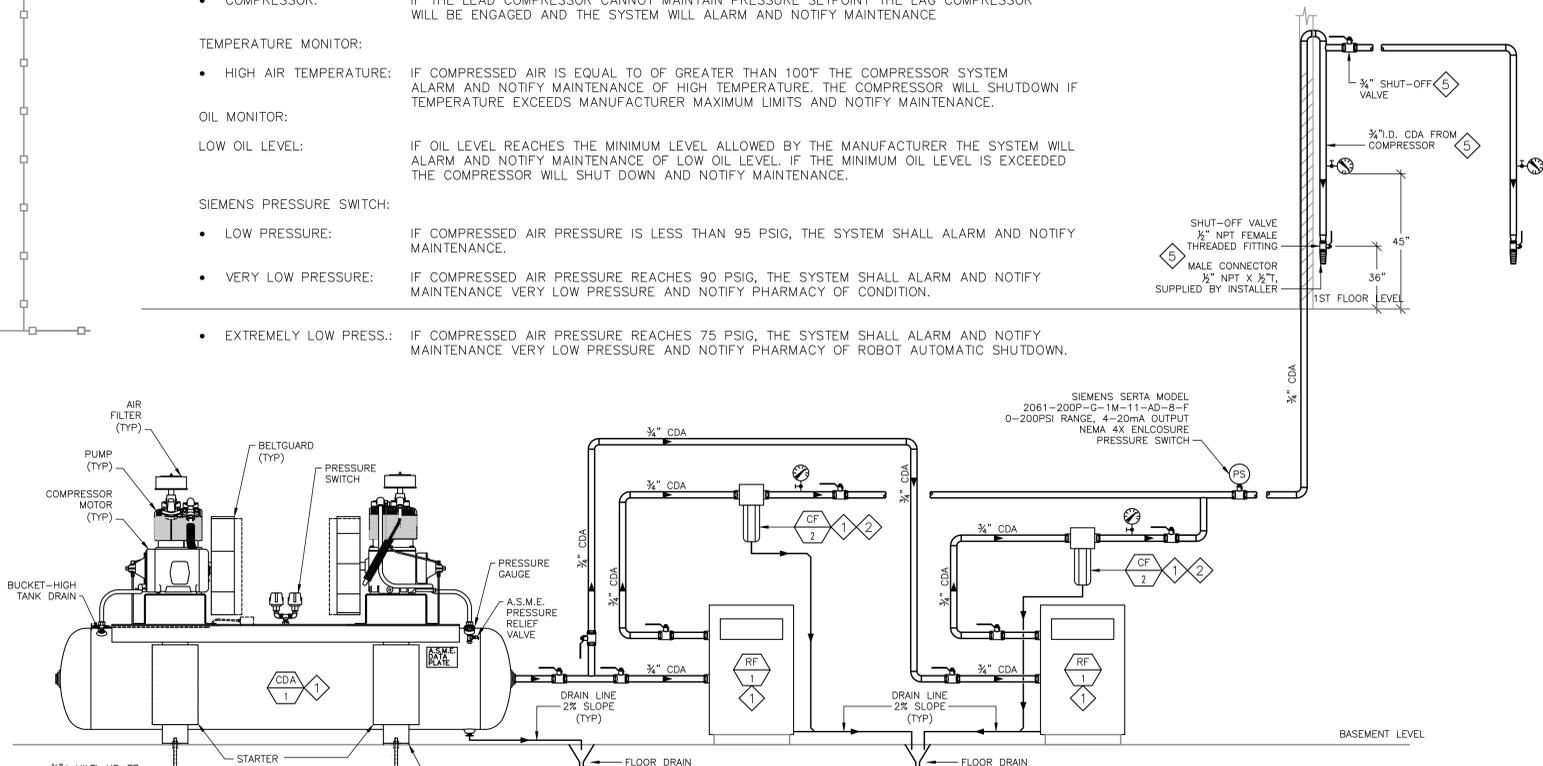
TAG	EQUIPMENT	MANUFACTURER	MODEL	LOCATION	SERVICE	TYPE	CAPACITY @ 150 PSIG (CAGI STD.)	HP	ELECTRICAL			OPERATING WEIGHT (LBS)	REMARKS
									V	PH	Hz		
CDA 1	DUPLEX RECIPROCATING AIR COMPRESSOR	GARDNER DENVER CHAMPION	HR5D-12	BASEMENT MECHANICAL ROOM 110 B0334	CDA	DUPLEX RECIPROCATING	34.6 CFM	5.0 (X2)	208	3	60	1100	PROVIDE WITH/ DPR DUPLEX PANEL, ASME 120 GALLON RECEIVER, DUAL OIL LEVEL MONITORS, DUAL HIGH DISCHARGE AIR TEMPERATURE ALARM, LOW PRESSURE SWITCH MODEL 69JF6.

NEW CDA FILTER SCHEDULE

TAG	EQUIPMENT	MANUFACTURER	MODEL	LOCATION	SERVICE	TYPE	INLET FLOW (CFM)	ELECTRICAL			OPERATING WEIGHT (LBS)	REMARKS
								PH	Hz			
RF 1/2	REFRIGERATED DRYER FILTER	GARDNER DENVER CHAMPION	RNC15A2	BASEMENT MECHANICAL ROOM 110 B0334	CDA	REFRIGERATED DRYER	15 @ 38°F D.P.	115	1	60	69	3/4" OD INLET/OUTLET CONNECTIONS, I-CONTROLLER LEVEL 1, AIR COOLED CONDENSER, INTEGRAL MOISTURE SEPARATOR W/ AUTOMATIC CONDENSATE DRAIN VALVE.
CF 1/2	COALESCING FILTER	GARDNER DENVER CHAMPION	FIL20E11AP	BASEMENT MECHANICAL ROOM 110 B0334	CDA	HEAT-LESS DESICCANT	25 @ 100 PSIG	-	-	-	-	CAST ALUMINUM NON-CORROSIVE HOUSING W/ DIFFERENTIAL CHANGE INDICATOR, 0.01 MICRON PARTICULATE FILTRATION, 0.008 PPM COALESCING FILTRATION, INTEGRAL AUTOMATIC DRAIN.

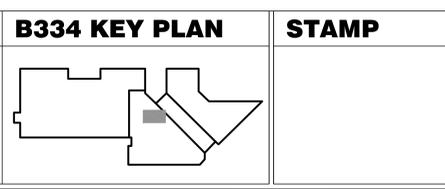
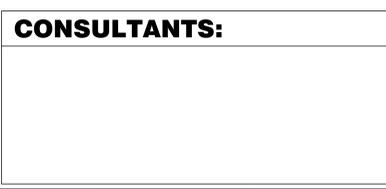
SEQUENCE OF OPERATION:

- MCKESSON ROBOT-RX SYSTEM COMPRESSED AIR REQUIREMENTS:
- ROBOT-RZ WITH EDS: 100°F MAX. AIR TEMP / 50°F PRESSURE DEW POINT / 90-160 PSIG / 12 SCFM SHUTDOWN IF PRESSURE FALLS BELOW 75 PSIG
 - PACKAGER: 100°F MAX. AIR TEMP / 50°F PRESSURE DEW POINT / 90-160 PSIG / 02 SCFM
- DUPLEX PRESSURE SWITCH:
- COMPRESSOR: IF THE LEAD COMPRESSOR CANNOT MAINTAIN PRESSURE SETPOINT THE LAG COMPRESSOR WILL BE ENGAGED AND THE SYSTEM WILL ALARM AND NOTIFY MAINTENANCE
- TEMPERATURE MONITOR:
- HIGH AIR TEMPERATURE: IF COMPRESSED AIR IS EQUAL TO OR GREATER THAN 100°F THE COMPRESSOR SYSTEM ALARM AND NOTIFY MAINTENANCE OF HIGH TEMPERATURE. THE COMPRESSOR WILL SHUTDOWN IF TEMPERATURE EXCEEDS MANUFACTURER MAXIMUM LIMITS AND NOTIFY MAINTENANCE.
- OIL MONITOR:
- LOW OIL LEVEL: IF OIL LEVEL REACHES THE MINIMUM LEVEL ALLOWED BY THE MANUFACTURER THE SYSTEM WILL ALARM AND NOTIFY MAINTENANCE OF LOW OIL LEVEL. IF THE MINIMUM OIL LEVEL IS EXCEEDED THE COMPRESSOR WILL SHUT DOWN AND NOTIFY MAINTENANCE.
- SIEMENS PRESSURE SWITCH:
- LOW PRESSURE: IF COMPRESSED AIR PRESSURE IS LESS THAN 95 PSIG, THE SYSTEM SHALL ALARM AND NOTIFY MAINTENANCE.
 - VERY LOW PRESSURE: IF COMPRESSED AIR PRESSURE REACHES 90 PSIG, THE SYSTEM SHALL ALARM AND NOTIFY MAINTENANCE VERY LOW PRESSURE AND NOTIFY PHARMACY OF CONDITION.
 - EXTREMELY LOW PRESS.: IF COMPRESSED AIR PRESSURE REACHES 75 PSIG, THE SYSTEM SHALL ALARM AND NOTIFY MAINTENANCE VERY LOW PRESSURE AND NOTIFY PHARMACY OF ROBOT AUTOMATIC SHUTDOWN.



1 CDA PIPING DIAGRAM
SCALE: N.T.S.

CONSULTANTS:	
100% CD (13-242)	1/31/14
95% CD (13-230)	1/9/14
95% SD / 50% CD (13-226)	12/18/13
Revisions:	Date



ARCHITECT/ENGINEERS:

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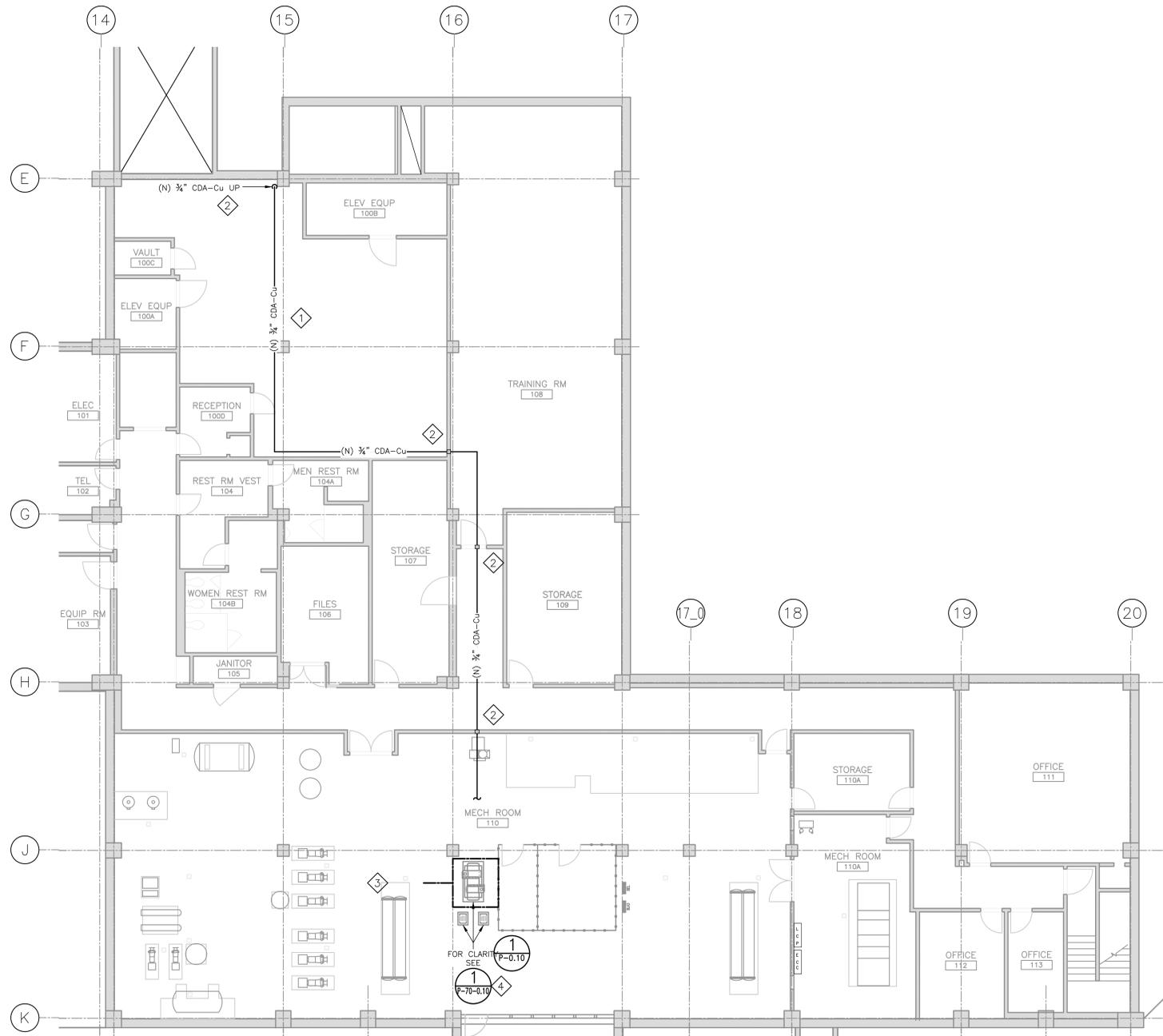
Drawing Title
**PIPING
CDA PIPING BASEMENT ENLARGED PLAN,
CDA PIPING DIAGRAM AND SCHEDULES**

Approved: Project Director

Project Title RENOVATE PHARMACY FOR ROBOT INSTALLATION, B334 - MPD		Project Number 640AO-14-107M	
Location MENLO PARK CAMPUS		Building Number B334	
Date 12/18/2013	Checked H. OJEDA	Drawn L. RIOS	Drawing Number 334-P-70-09
Dwg. -- of --			



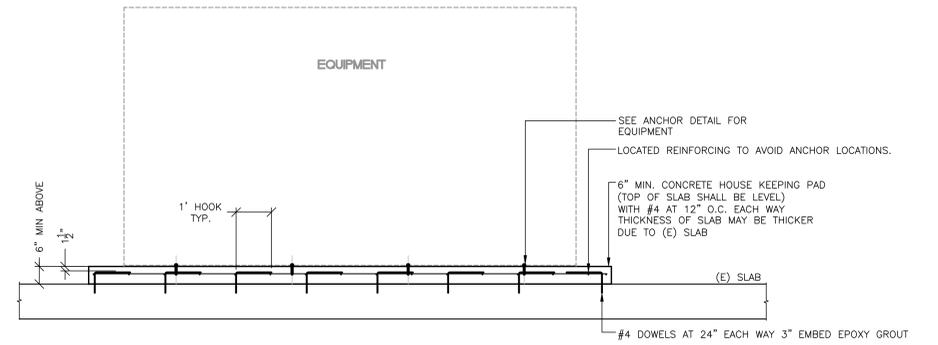
three inches = one foot
 one and one half inches = one foot
 one inch = one foot
 three quarters inch = one foot
 one half inch = one foot
 three eighths inch = one foot
 one quarter inch = one foot
 one eighth inch = one foot



PHARMACY ROBOT CDA EQUIPMENT AND PIPING BASEMENT FLOOR PLAN
 SCALE: 1/8" = 1'-0"

SHEET NOTES:

- 1 FURNISH AND INSTALL NEW 3/4" CDA-Cu AND ROUTE FROM NEW CLEAN DRY AIR COMPRESSOR SYSTEM AS SHOWN IN PLAN.
- 2 CONTRACTOR SHALL SEAL ALL PENETRATIONS WITH FIRE RATED CAULK
- 3 CONTRACTOR IS RESPONSIBLE FOR REMOVING LOUVERS AND LIFTING NEW CDA SYSTEM INTO MECHANICAL ROOM 110JE AS NEEDED. THEY ARE COMPLETELY RESPONSIBLE FOR VERIFYING ELEVATOR SIZE/CAPACITY AND/OR CRANE LOCATION AS NEEDED.
- 4 PROVIDE NEW HOUSE KEEPING PAN WITH NON-SLIP EPOXY PAINT.



1 HOUSE KEEPING PAD AND ANCHORAGE
 SCALE: N.T.S.

100% CD (13-242)	1/31/14
95% CD (13-230)	1/9/14
95% SD / 50% CD (13-226)	12/18/13
Revisions:	Date

CONSULTANTS:	B334 KEY PLAN	STAMP

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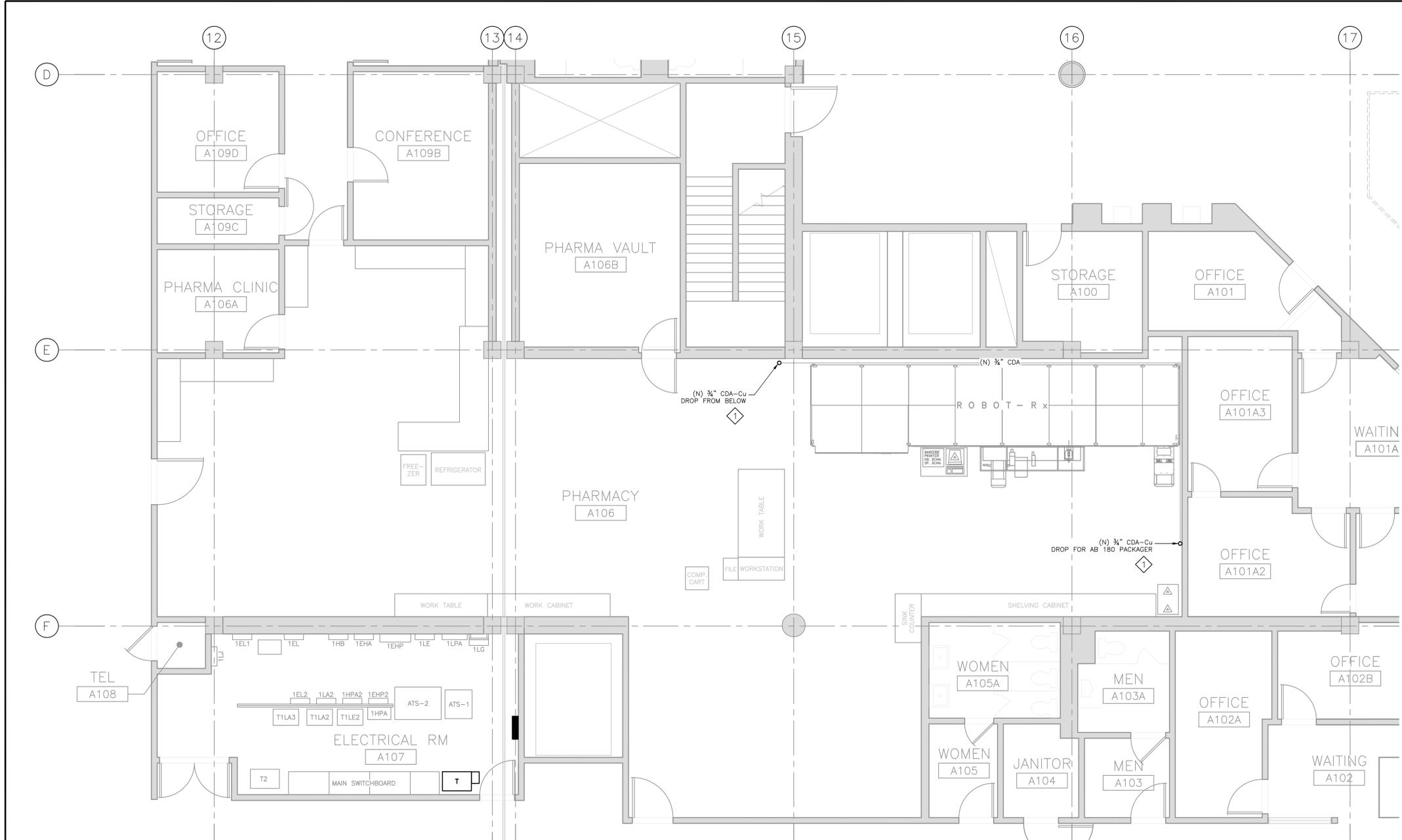
Drawing Title	PIPING PHARMACY ROBOT EQUIP. AND PIPING CDA BASEMENT FLOOR PLAN
Approved:	Project Director

Project Title	RENOVATE PHARMACY FOR ROBOT INSTALLATION, B334 - MPD
Location	MENLO PARK CAMPUS
Date	12/18/2013
Checked	H. OJEDA
Drawn	R. SOTELO

Project Number	640AO-14-107M
Building Number	B334
Drawing Number	334-P-70-0-10
Dwg. -- of --	-- of --

Office of Facilities Management
 Department of Veterans Affairs

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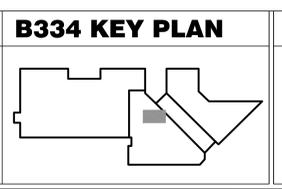


SHEET NOTES:
 ◆ FURNISH AND INSTALL NEW 3/4" CDA-Cu "DROP" AS SHOWN. PROVIDE 3/4" FUTURE VALVE FOR CONNECTION AB 180 PACKAGER (TO BE LOCATED AT A LATER DATE). REFER TO DIAGRAM ON P-70-0.9. ROUTING FROM DROP TO TOOL SHALL BE BY MANUFACTURER.

PHARMACY ROBOT FIRST FLOOR CDA PIPING PLAN
 SCALE: 1/4" = 1'-0"

100% CD (13-242)	1/31/14
95% CD (13-230)	1/9/14
95% SD / 50% CD (13-226)	12/18/13
Revisions:	Date

CONSULTANTS:



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Drawing Title
PIPING PHARMACY ROBOT FIRST FLOOR CDA PIPING PLAN

Approved: Project Director

Project Title RENOVATE PHARMACY FOR ROBOT INSTALLATION, B334 - MPD		Project Number 640AO-14-107M	
Location MENLO PARK CAMPUS		Building Number B334	
Date 12/18/2013	Checked H. OJEDA	Drawn L. RIOS	Drawing Number 334-P-70-10
		Dwg. -- of --	

Office of Facilities Management

Department of Veterans Affairs

GENERAL NOTES

- THE COMPLETE ELECTRICAL INSTALLATION SHALL BE IN ACCORDANCE WITH THE 2008 EDITION OF THE NATIONAL ELECTRICAL CODE, THE LATEST RULES AND REGULATIONS OF THE SAFETY ORDERS ISSUED BY THE DIVISION OF INDUSTRIAL SAFETY, THE NATIONAL BOARD OF FIRE UNDERWRITERS AND ALL APPLICABLE STATE AND LOCAL CODES ISSUED BY THE AUTHORITIES HAVING JURISDICTION.
- THE CONTRACTOR, PRIOR TO BIDDING, SHALL VISIT THE JOB SITE TO BECOME ACQUAINTED WITH THE EXISTING INSTALLATION AND SYSTEM RELATED TO HIS WORK AND SHALL INCLUDE IN THE BID PROPOSAL ALL LABOR AND MATERIALS REQUIRED FOR THE ELECTRICAL INSTALLATION TO BE COMPLETE AND OPERATIVE.
- THE CONTRACTOR SHALL CONSULT THE ARCHITECTURAL, MECHANICAL AND OTHER DRAWINGS RELATED TO THIS PROJECT FOR ADDITIONAL WORK TO BE PROVIDED.
- ALL FEEDER AND BRANCH CIRCUIT CONDUITS SHALL BE INSTALLED CONCEALED IN FINISHED AREA, UNLESS OTHERWISE NOTED.
- UNLESS OTHERWISE INDICATED, THE MINIMUM SIZE OF CONDUCTORS SHALL BE #12 AWG THWN OR THHN COPPER ONLY.
- UNLESS OTHERWISE INDICATED, THE MINIMUM SIZE OF CONDUITS SHALL BE 3/4" EMT.
- GREEN INSULATED GROUND CONDUCTORS SHALL BE INSTALLED IN ALL FEEDER AND BRANCH CIRCUIT CONDUITS.
- THE CONTRACTOR SHALL PROVIDE REVISED TYPEWRITTEN DIRECTORIES FOR THE ELECTRICAL PANEL INVOLVED IN THIS PROJECT. THE PANEL DIRECTORY SHALL REFLECT THE AS BUILT CIRCUITS. ONE COPY OF THE SCHEDULE SHALL BE TAPED TO THE INSIDE OF THE PANEL DOOR, AND ONE COPY SHALL BE SUBMITTED TO THE ENGINEER AS AN "AS-BUILT" DRAWING.
- ELECTRICAL EQUIPMENT AND FEEDERS SHALL BE SUPPORTED AND/OR ANCHORED IN ACCORDANCE WITH UBC ZONE 4 SEISMIC REQUIREMENTS.
- THE CONTRACTOR SHALL MAINTAIN AT THE JOB SITE, AN UP TO DATE "AS-BUILT" DRAWING SET. THE "AS-BUILT" DRAWING SET SHALL REFLECT ALL APPROVED CHANGES TO THE DESIGN DRAWINGS. THE "AS-BUILT" DRAWING SET SHALL BE KEPT CLEAN AND IN GOOD CONDITION AND SHALL BE TURNED OVER TO THE OWNER AT THE COMPLETION OF THE PROJECT.
- UPON COMPLETION OF HIS WORK, THE CONTRACTOR SHALL SCHEDULE AND PERFORM A COMPLETE FUNCTIONAL TEST TO DEMONSTRATE TO THE OWNER THAT THE NEW INSTALLATION IS OPERATING AS INTENDED. ANY DEFECTS OR DEFICIENCIES IN THE MATERIALS OR WORK SHALL BE CORRECTED IMMEDIATELY BY AND AT THE CONTRACTOR'S EXPENSE.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR SECURING ALL REQUIRED ELECTRICAL PERMITS AND INSPECTIONS.
- THE SUBMISSION OF A BID OR PROPOSAL SHALL BE CONSIDERED AS CONCLUSIVE EVIDENCE THAT THE CONTRACTOR IS THOROUGHLY FAMILIAR WITH THE INTENT OF THE CONTRACT DOCUMENT, AND NO CHANGE ORDER WILL BE ISSUED FOR ADDITIONAL LABOR OR MATERIAL REQUIRED TO RECTIFY ANY DISCREPANCY DISCOVERED OR REPORTED TO THE ENGINEER AFTER THE EXECUTION OF THE WORK.
- ALL CONDUIT TO BE LOCATED OUTDOORS SHALL BE MINIMUM 3/4" OICAL-BLUE PVC COATED GALVANIZED CONDUIT/FITTINGS WITH BLACK COATING FINISH TO MATCH EXISTING AND INSTALLED PER MANUFACTURERS RECOMMENDATIONS.

SYMBOLS

SYMB.	DESCRIPTION
	MOLDED CASE CIRCUIT BREAKER
	MOLDED CASE CIRCUIT BREAKER
	TRANSFORMER
	DRY POWER TRANSFORMER
	POTENTIAL TRANSFORMER (NUMBER INDICATES QUANTITY)
	NON-FUSED DISCONNECT SWITCH
	FUSED DISCONNECT SWITCH
	MOTOR OUTLET; "15" INDICATES 15 HORSE POWER
	VARIABLE FREQUENCY DRIVE.
	CONTINUOUS GROUND BUS
	GROUND
	CHASSIS
	AUTOMATIC TRANSFER SWITCH
	FUSE
	NEUTRAL LINK
	CAPACITOR
	LIGHTNING ARRESTOR
	DRAW OUT
	BATTERY
	KIRK KEY INTERLOCK
	VOLTMETER
	AMMETER
	KILOWATT-METER
	AMMETER SWITCH
	VOLTMETER SWITCH
	GENERATION
	CONTROLLER
	WIREWAY
	DISCONNECT SWITCH, FUSED
	FOUR PORT WITH 3 MULTIPoint DATA AND ONE TELEPHONE OUTLET J-BOX +18" AFF, WITH NYLONS PULLWIRE INTO CEILING SPACE WITH BUSHING TO THE TELEPHONE TERMINAL BOARD.

SYMBOLS

SYMB.	DESCRIPTION
	NEW GFI DUPLEX RECP., 20A-125V NEMA 5-20R HUBBELL GF20IL
	GFCI DUPLEX RECEPTACLE
	EXISTING DUPLEX RECP., 20A-125V, NEMA 5-20R HUBBELL 5362
	NEW DUPLEX RECP., 20A-125V, NEMA 5-20R HUBBELL 5362
	NEW FOURPLEX RECP., 20A-125V, NEMA 5-20R HUBBELL 5362
	MULTI OUTLET STRIP
	230V / 240 VOLT RECEPTACLE
	TWIST-LOCK RECEPTACLE NEMA L14-20R, 20A,125V/250V. (HUBBELL HBL2410)
	ELECTRICAL PANEL 277/480
	ELECTRICAL PANEL 120/208, RECESSED MOUNTED
	ELECTRICAL PANEL 277/480, RECESSED MOUNTED
	CONDUIT TURNING - UP
	CONDUIT TURNING - DOWN
	CONDUIT STUBBED AND CAPPED, LOCATION AS INDICATED
	DUCTBANK, SITE PLAN C=CONTROL, E=EMERGENCY POWER, P=POWER, T=TELEPHONE/DATA, U=UTILITY COMPANY
	CONDUIT WITH CONDUCTORS - CONCEALED OR EXPOSED
	CONDUIT WITH CONDUCTORS - BELOW GRADE OR SLAB
	CONDUIT AND CONDUCTORS ON EMERGENCY CIRCUIT
	CONDUIT ONLY
	PLUG-IN CIRCUIT BREAKER ON THE BUS DUCT. SIZE AS NOTED ON THE PLAN
	LIGHTING PANEL
	RECEPTACLE, DUPLEX ON EMERGENCY POWER
	RECEPTACLE, SINGLE
	ELECTRICAL STRIP MOLD (OUTLETS ON 2'-0" [610mm] CENTERS OR AS DESIGNATED ON DRAWINGS), MTD 3'-6" [1067mm] AFF OR AS INDICATED.
	SEAL FITTING FOR CLASS 1, DIV 1 (SEE PLAN)
	HOMERUN TO SWITCHBOARD, PANELBOARD, PANEL AND CABINET, ETC.
	MANHOLE
	PULLBOX
	SPLICE CONDUCTORS IN NEW PULLBOX.
	WALL MOUNTED JUNCTION BOX
	WALL MOUNTED JUNCTION BOX
	FLOOR MOUNTED JUNCTION BOX
	GROUND BUS

NOTE:
SYMBOLS AND ABBREVIATIONS LISTED ARE FOR GENERAL USE. DISREGARD THOSE WHICH ARE NOT USED ON THE DRAWINGS.

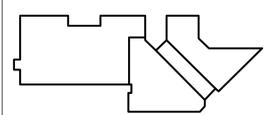
ABBREVIATIONS

ABBR.	DESCRIPTION
A,AMP	AMMETER, AMPERE
AC	ALTERNATING CURRENT
AF	AMPERE FRAME
AFF	ABOVE FINISHED FLOOR
AMP	AMPERES
AT	AMPERE TRIP
ATS	AUTOMATIC TRANSFER SWITCH
AWG	AMERICAN WIRE GAUGE
BRKR	BREAKER
BLDG	BUILDING
C	CONDUIT, COIL
CB	CIRCUIT BREAKER
CKT	CIRCUIT
CRS	COATED RIGID STEEL
Δ	DELTA CONNECTED
E	EMPTY, EMERGENCY
(E)	EXISTING
EMT	ELECTRICAL METALLIC TUBING
ENT	ELECTRICAL NONMETALLIC TUBING
EV	ELECTRIC VEHICLE
F	FUSE
(F)	FUTURE
FDR	FEEDER
FLR	FLOOR
FU	FUSE
(G), GND	GROUND
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
GRC	GALVANIZED RIGID CONDUIT
HOA	HAND-OFF-AUTO
IMC	INTERMEDIATE METALLIC CONDUIT
IG	ISOLATED GROUND
J, J-BOX	JUNCTION BOX
KA	KILOAMPERE
KVA	KILOVOLT-AMPERE
KVAR	KILOVOLT-AMPER REACTIVE
KW	KILOWATT
KWH	KILOWATT HOUR
MCB	MAIN CIRCUIT BREAKER
MFR	MANUFACTURER
MLO	MAIN LUGS ONLY
MT, MTD	MOUNT, MOUNTED
(N)	NEW
N	NEUTRAL
NEC	NATIONAL ELECTRIC CODE
NEMA	NATIONAL ELECTRICAL MANUFACTURER'S ASSOCIATION
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
NIC	NOT IN CONTRACT
NTS	NOT TO SCALE
PNL	PANEL
PH	PHASE
QTY	QUANTITY
RCPT, RECP	RECEPTACLE
RQD	REQUIRED
SLD	SINGLE LINE DIAGRAM
SURF	SURFACE
SS	STAINLESS STEEL
SWBD	SWITCHBOARD
T	TRANSFORMER
TP, 3P	THREE POLE
TYP	TYPICAL
V	VOLTMETER, VOLT
VA	VOLT-AMPERE
W	WATT, WIRE
WH	WATT-HOUR METER
WP	WEATHERPROOF
XFMR	TRANSFORMER
Y	WYE CONNECTED
∅	PHASE

CONSULTANTS:

100% CD (13-242)	1/31/14
95% CD (13-230)	1/9/14
95% SD / 50% CD (13-226)	12/18/13
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B334 KEY PLAN



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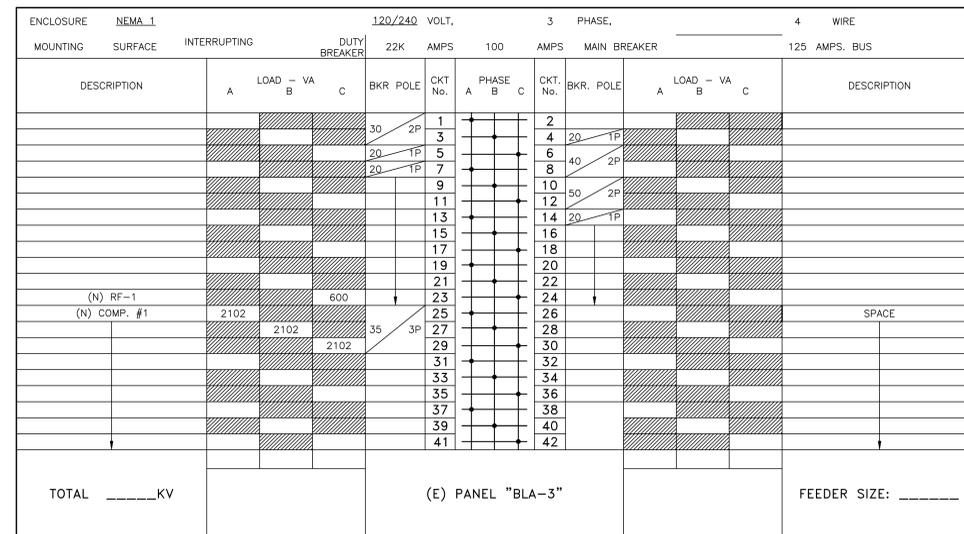
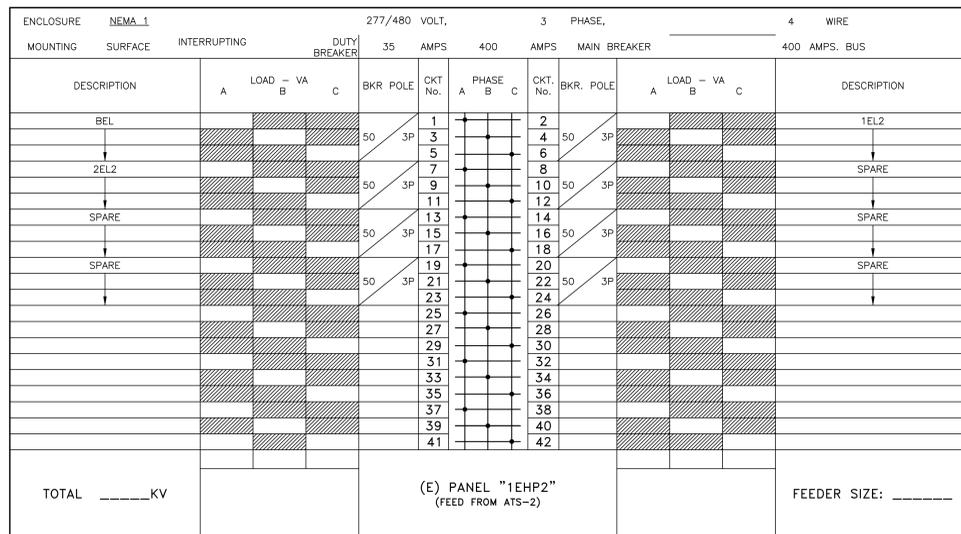
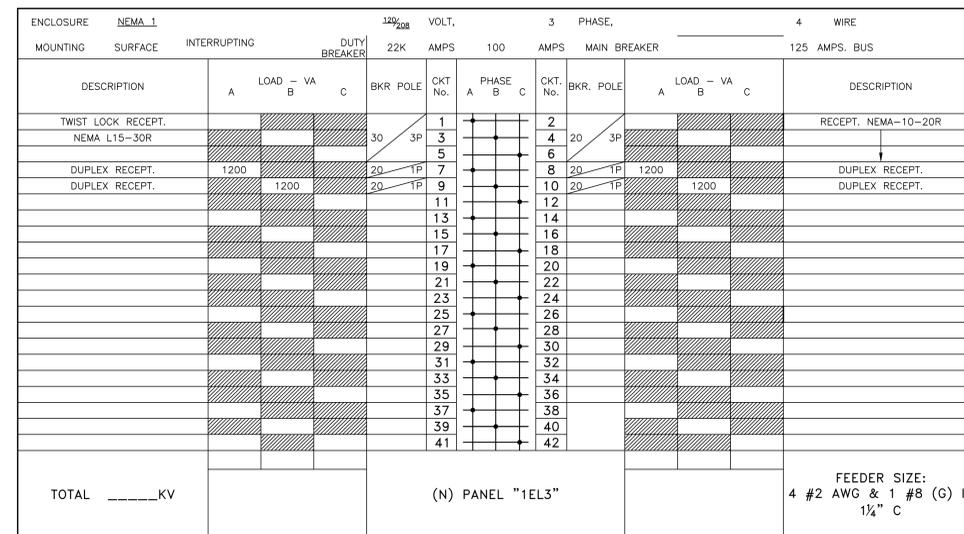
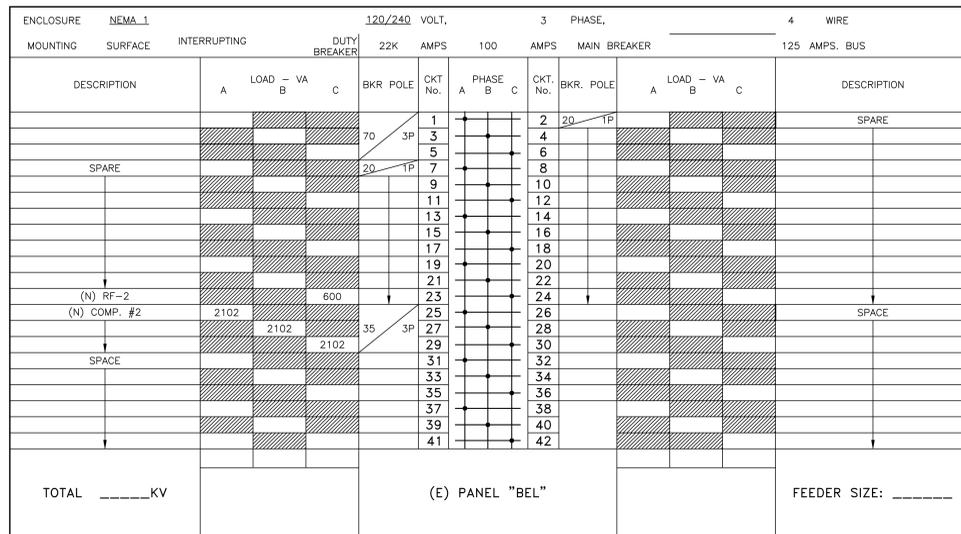
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 PDR 13-308-30

Drawing Title	ELECTRICAL GENERAL NOTES, SYMBOLS AND ABBREVIATIONS
Approved: Project Director	

Project Title	RENOVATE PHARMACY FOR ROBOT INSTALLATION, B334 - MPD
Location	MENLO PARK CAMPUS
Date	12/18/2013
Checked	P. LOPEZ
Drawn	J. ROTHWEIN

Project Number	640AO-14-107M
Building Number	B334
Drawing Number	334-E-60-0.0
Dwg. -- of --	-- of --

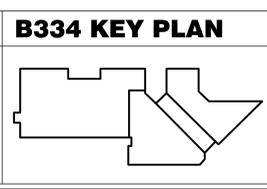
Office of Facilities Management
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95% SD / 50% CD (13-226)	12/18/13
Revisions:	Date

CONSULTANTS:



STAMP

ARCHITECT/ENGINEERS:

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Drawing Title
**ELECTRICAL
 BLDG 334 PANEL SCHEDULES**

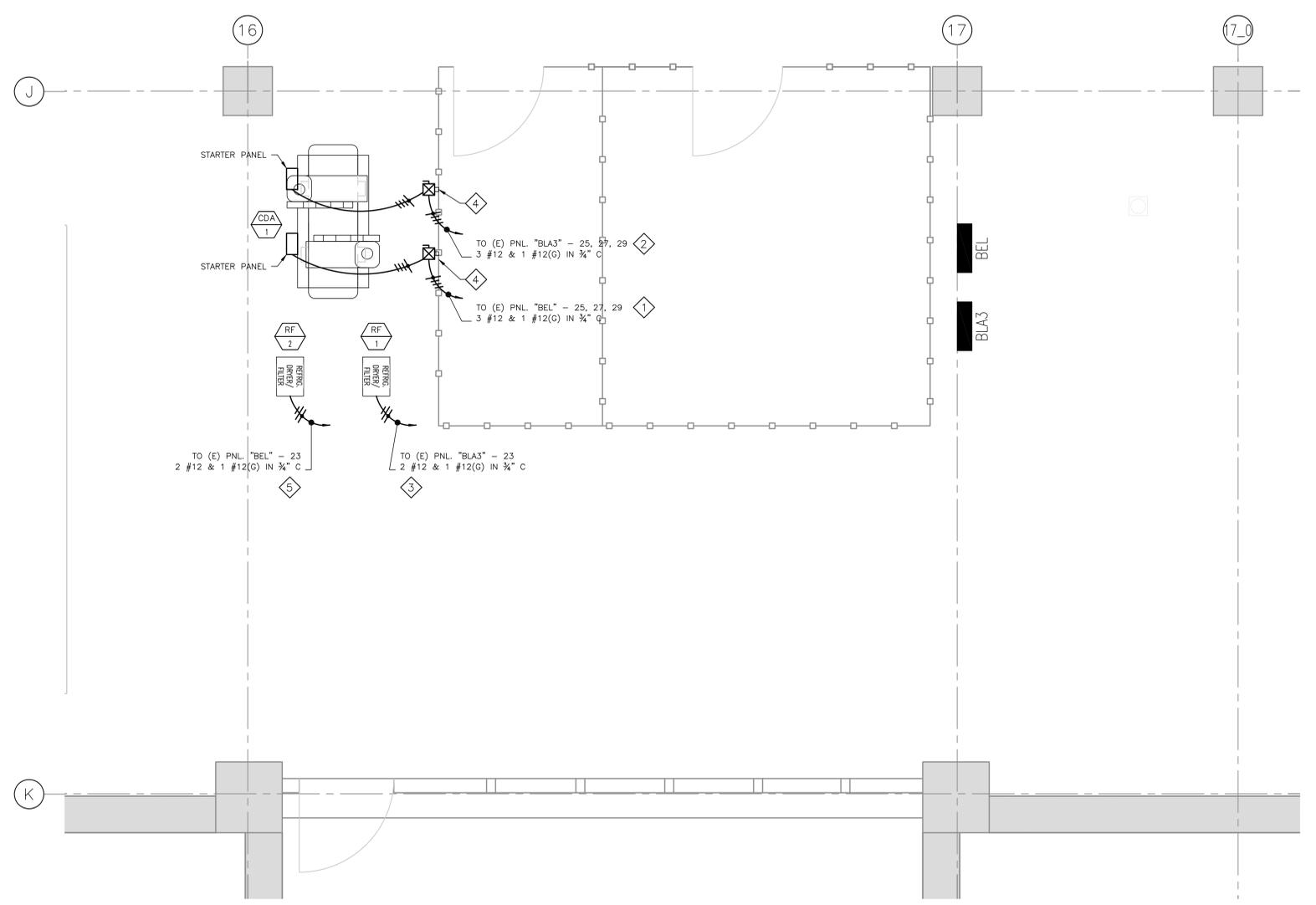
Approved: Project Director

Project Title RENOVATE PHARMACY FOR ROBOT INSTALLATION, B334 - MPD	Project Number 640AO-14-107M
Location MENLO PARK CAMPUS	Building Number B334
Date 12/18/2013	Checked P. LOPEZ
Drawn J. ROTHWEIN	Drawing Number 334-E-60-0.2
Dwg. -- of --	

**Office of
Facilities
Management**

Department of
Veterans Affairs

three inches = one foot
 one and one half inches = one foot
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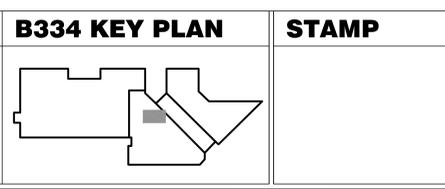


- SHEET NOTES:**
- 1 CONTRACTOR SHALL PROVIDE AND INSTALL NEW 35A/3P, 250V CIRCUIT BREAKER IN SPACE OF EXISTING PANEL "BEL" TO PROVIDE POWER TO NEW "CDA" COMPRESSOR. NEW CIRCUIT BREAKER TYPE AND INTERRUPTING RATING SHALL MATCH EXISTING. PROVIDE CONDUIT AND WIRES AS SHOWN. SEE PANEL SCHEDULE ON DWG. 334-E-60-0.2
 - 2 CONTRACTOR SHALL PROVIDE AND INSTALL NEW 35A/3P, 250V CIRCUIT BREAKER IN SPACE OF EXISTING PANEL "BLA3" TO PROVIDE POWER TO NEW "CDA" COMPRESSOR. NEW CIRCUIT BREAKER TYPE AND INTERRUPTING RATING SHALL MATCH EXISTING. PROVIDE CONDUIT AND WIRES AS SHOWN. SEE PANEL SCHEDULE ON DWG. 334-E-60-0.2
 - 3 CONTRACTOR SHALL USE EXISTING 20A/1P SPARE CIRCUIT BREAKER IN PANEL "BLA3" TO PROVIDE POWER TO NEW "RF-1". PROVIDE CONDUIT AND WIRES AS SHOWN. SEE PANEL SCHEDULE ON DWG. 334-E-60-0.2
 - 4 CONTRACTOR SHALL PROVIDE AND INSTALL TWO COMBINATION FUSED DISCONNECT, NEMA SIZE 1, NON-REVERSING MOTOR STARTER IN A NEMA 1 ENCLOSURE. DISCONNECT SWITCH SHALL BE 30 AMP, 3 POLE, 230VAC, LOCKABLE WITH 30A DUAL ELEMENT TIME DELAY FUSES. STARTER SHALL HAVE HAND-OFF-AUTO SELECTOR SWITCH, STOP RED LIGHT AND RUN GREEN LIGHT. COMBINATION DISCONNECT SHALL BE MOUNTED ON A STANCHION.
 - 5 CONTRACTOR SHALL USE EXISTING 20A/1P SPARE CIRCUIT BREAKER IN PANEL "BEL" TO PROVIDE POWER TO NEW "RF-2". PROVIDE CONDUIT AND WIRES AS SHOWN. SEE PANEL SCHEDULE ON DWG. 334-E-60-0.2

ELECTRICAL BASEMENT ENLARGED POWER PLAN
 SCALE: 1/2" = 1'-0"

100% CD (13-242)	1/31/14
95% CD (13-230)	1/9/14
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PCA 13-308-30

Drawing Title
PIPING PHARMACY ROBOT ELECTRICAL BASEMENT ENLARGED POWER PLAN

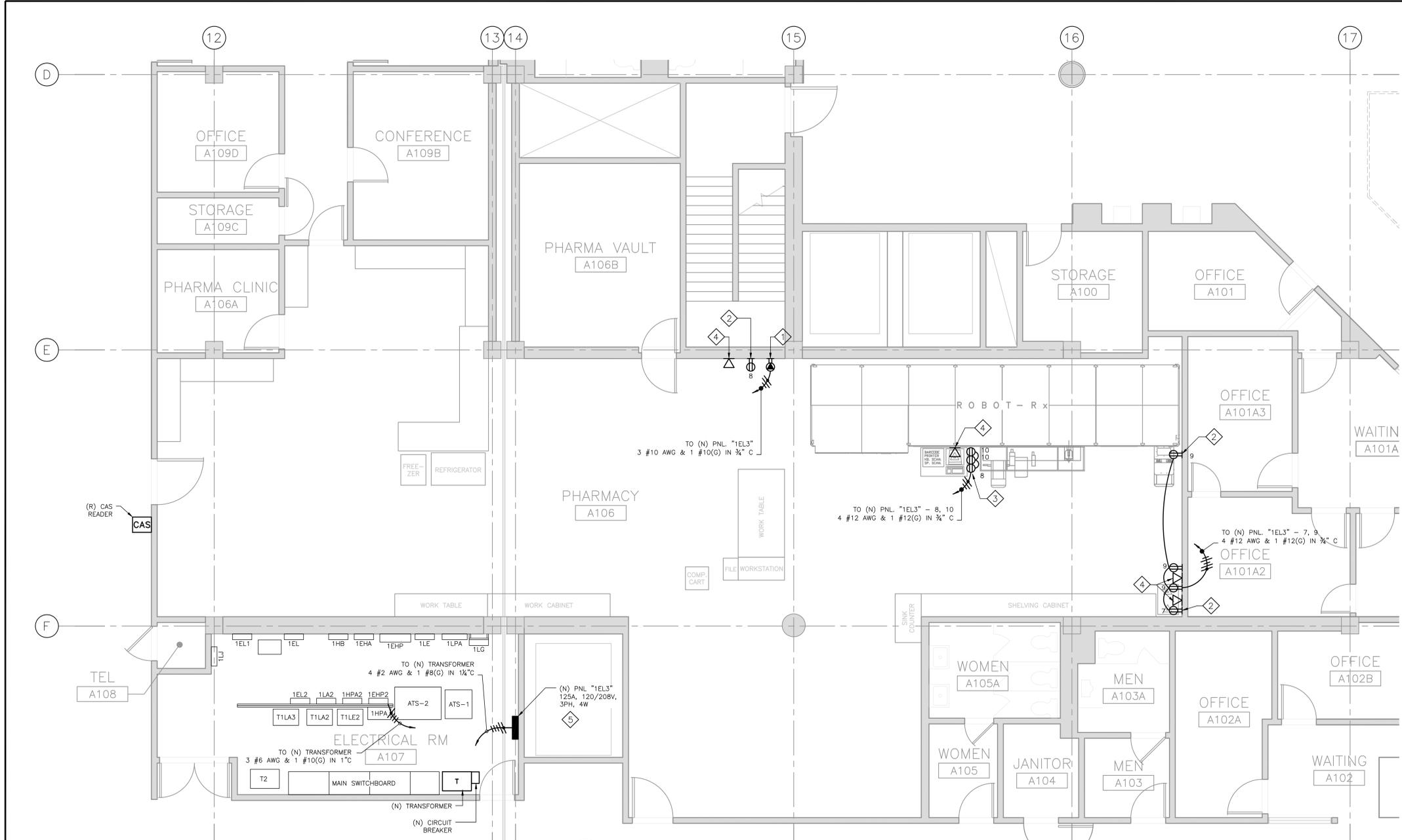
Approved: Project Director

Project Title RENOVATE PHARMACY FOR ROBOT INSTALLATION, B334 - MPD		Project Number 640AO-14-107M
Location MENLO PARK CAMPUS		Building Number B334
Date 12/18/2013	Checked H. OJEDA	Drawn A. RAEISSI
Drawing Number 334-E-40-0.9		Dwg. -- of --

Office of Facilities Management

Department of Veterans Affairs

three inches = one foot
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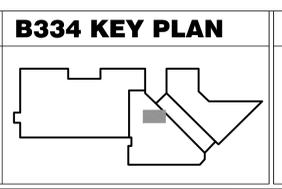


- SHEET NOTES:**
- CONTRACTOR SHALL PROVIDE AND INSTALL NEW TWIST-LOCK RECEPTACLE 30A, 3 PHASE, 250V, NEMA L15-30R HUBBELL HBL2720 OR APPROVED EQUAL. TWIST-LOCK RECEPTACLE SHALL BE MOUNTED 18" ABOVE FINISHED FLOOR. PROVIDE CONDUIT 3/4" C. WITH 3 #10AWG AND 1 # 1/0(G).
 - CONTRACTOR SHALL PROVIDE AND INSTALL NEW DUPLEX RECEPTACLE 20A, 125V, NEMA 5-20R HUBBELL HBL5362 OR APPROVED EQUAL. DUPLEX RECEPTACLE SHALL BE WALL MOUNTED 18" ABOVE FINISHED FLOOR. (TOTAL OF 5).
 - CONTRACTOR SHALL PROVIDE AND INSTALL NEW POWER POLE WITH THREE DUPLEX RECEPTACLE 20A, 125V, NEMA 5-20R HUBBELL HBL5362 OR APPROVED EQUAL.
 - CONTRACTOR SHALL PROVIDE AND INSTALL NEW DATA/TELEPHONE OUTLET J-BOX WITH BLANK COVER WALL MOUNTED WITH 1" C. WITH CAT6 CABLE INTO THE CEILING SPACE WITH BUSHING. ROUTE TO ROOM TEL-A108.
 - CONTRACTOR SHALL PROVIDE AND INSTALL NEW 125A, 120/208V, 3 PHASE, 4W, 22KAC PANEL "1EL3" WITH 100A/3P MAIN CIRCUIT BREAKER. ALL BUS BAR SHALL BE COPPER AND FRONT COVER PLATE SHALL BE HINGED. NEW PANEL SHALL BE NEMA 1.

PHARMACY ROBOT FIRST FLOOR POWER PLAN
 SCALE: 1/4" = 1'-0"

100% CD (13-242)	1/31/14
95% CD (13-230)	1/9/14
95% SD / 50% CD (13-226)	12/18/13
Revisions:	Date

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PO# 13-308-30

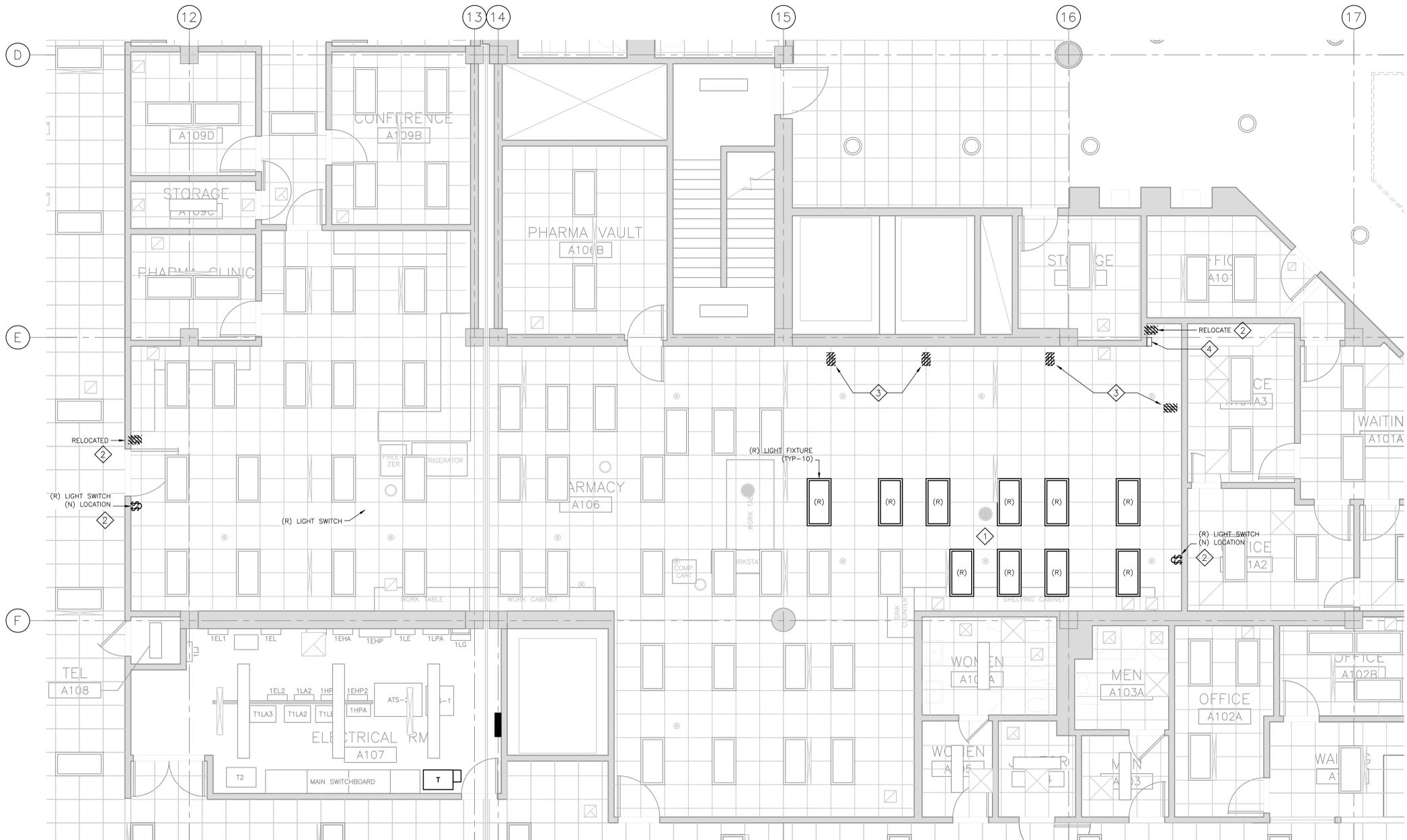
Drawing Title	ELECTRICAL PHARMACY ROBOT FIRST FLOOR POWER PLAN
Approved: Project Director	

Project Title	RENOVATE PHARMACY FOR ROBOT INSTALLATION, B334 - MPD
Project Number	640AO-14-107M
Building Number	B334
Location	MENLO PARK CAMPUS
Date	12/18/2013
Checked	H. OJEDA
Drawn	A. RAESSI
Drawing Number	334-E-60-10
Dwg. -- of --	

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Department of Veterans Affairs

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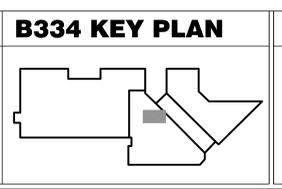


- SHEET NOTES:**
- 1 CONTRACTOR SHALL RELOCATE EXISTING 2'x4' FLUORESCENT LIGHT FIXTURES TO NEW LOCATION AS SHOWN. CONTRACTOR SHALL EXTEND EXISTING LIGHTING CIRCUIT TO THIS NEW LOCATION. CONTRACTOR SHALL CLEAN AND RELAMP AND RECONNECT TO EXISTING LIGHTING CIRCUIT.
 - 2 CONTRACTOR SHALL RELOCATE EXISTING LIGHT SWITCH TO NEW LOCATION AS SHOWN. EXTEND EXISTING LIGHTING CIRCUIT. PROVIDE CONDUIT AND WIRES AS REQUIRED.
 - 3 CONTRACTOR SHALL DISCONNECT AND REMOVE ALL EXISTING RECEPTACLES SHOWN WITH HATCH LINE. EXISTING RECEPTACLES CIRCUIT SHALL REMAIN ABOVE CEILING IN A (N) J-BOX. CONTRACTOR SHALL TAG AND TAPE ENDS. CONTRACTOR SHALL MAINTAIN CIRCUIT CONTINUITY FOR ANY OTHER (E) OUTLETS ON CIRCUITS.
 - 4 CONTRACTOR SHALL DISCONNECT AND REMOVE EXISTING CONVEYOR POWER CIRCUIT BACK TO EXISTING BREAKER AND LABEL AS SPARE. REMOVE EXISTING WIRES ASSOCIATED WITH THIS CONVEYOR CONTROL.

PHARMACY ROBOT FIRST FLOOR REFLECTED CEILING PLAN
 SCALE: 1/4" = 1'-0"

100% CD (13-242)	1/31/14
95% CD (13-230)	1/9/14
95% SD / 50% CD (13-226)	12/18/13
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 PCH 13-308-30

Drawing Title
ELECTRICAL PHARMACY ROBOT FIRST FLOOR REFLECTED CEILING PLAN

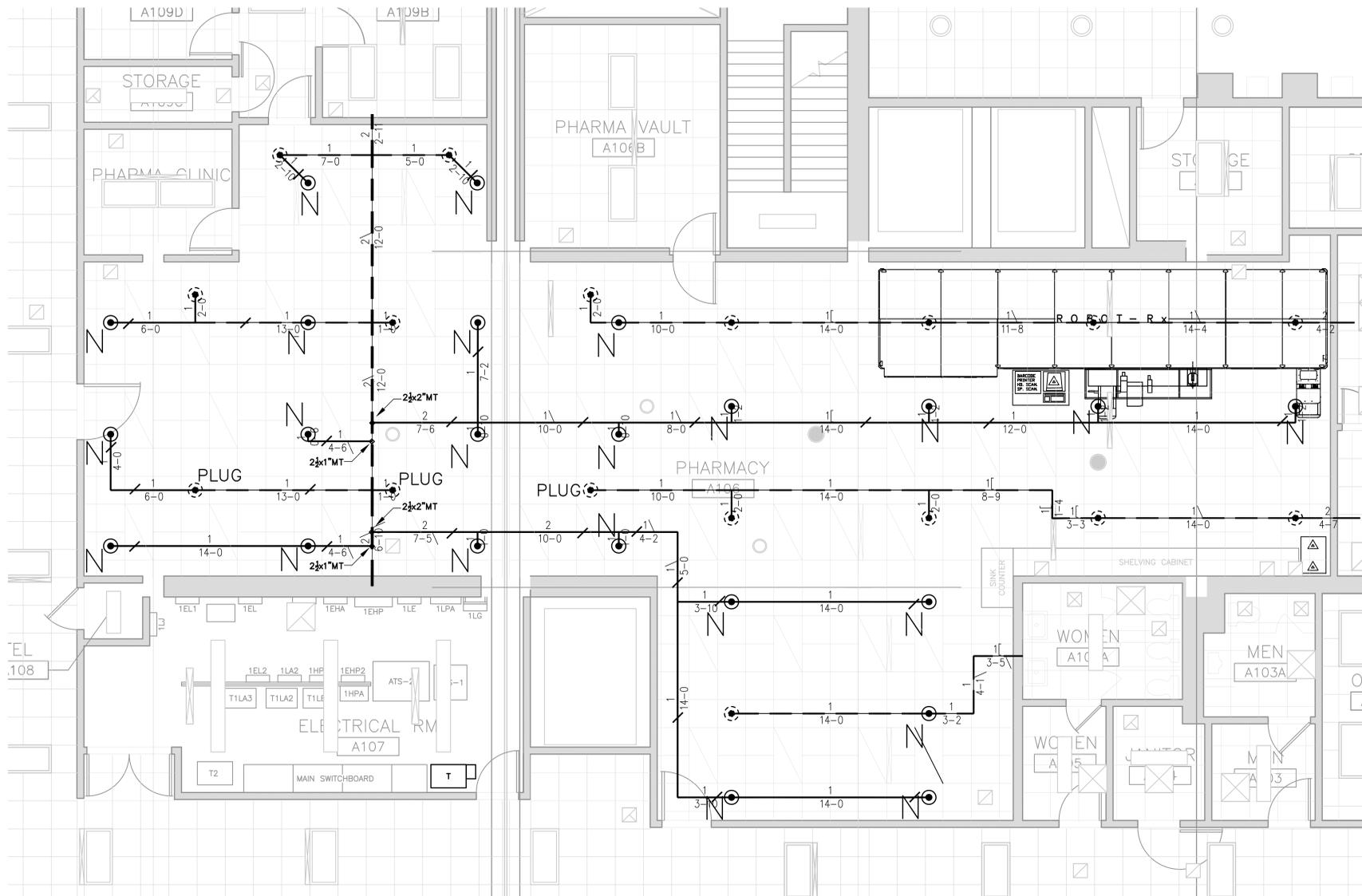
Approved: Project Director

Project Title RENOVATE PHARMACY FOR ROBOT INSTALLATION, B334 - MPD		Project Number 640AO-14-107M
Location MENLO PARK CAMPUS		Building Number B334
Date 12/18/2013	Checked H. OJEDA	Drawn ARAIESSI
Drawing Number 334-E-60-1.1		Dwg. -- of --

Office of Facilities Management

Department of Veterans Affairs

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 one inch = one foot
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 one eighth inch = one foot



AREA OF WORK

LEGEND

- NEW PENDENT HEAD (N)
- ⊙ EXISTING PENDENT HEAD
- NEW HANGER
- NEW PIPE
- EXISTING PIPE

1 PARTIAL FIRST FLOOR PHARMACY AREA
 1/4"=1'-0"

SCOPE OF WORK

Existing Sprinkler System is Pipe Scheduled. Add New Spinkler Heads and Lines to modify existing system to comply with the Ordinary Group 2 density. Max Spacing for Ordinary Group 2 is 130 sqft. Sprinkler Head deflector has a Minimum of 18" from top of storage. No storage can be over 12' in height PER NFPA 13 2010 EDITION PAGE 13-129 FIGURE 13.2.1 MISCELLANEOUS STORAGE 12' OR LESS.

NOTE: Any other Requirements to the Existing System would mean major modification. Existing 4" Riser and piping may need demolition to install new system.



Site Map

PRELIMINARY PLAN
 NOT FOR CONSTRUCTION

CONSULTANTS: 1015 TERMINAL WAY * SAN CARLOS, CA 94070 PROTECTING LIVES AND PROPERTY SINCE 1989 LIC. # C-16 568438 TELEPHONE : (650) 594-1588 FAX : (650) 594-1613		B334 KEY PLAN 		STAMP 		ARCHITECT/ENGINEERS: 998 PARK AVENUE SAN JOSE, CA 95126 P: (408) 297-1881 F: (408) 294-3186 www.adcengineers.com ATTENTION: ONLY NET SIGNED DOCUMENTS CONSTITUTE ADVANCE DESIGN CONSULTANTS, INC. PROFESSIONAL WORK AND BECAUSE OTHER REPRODUCIBLE DOCUMENTS MAY BE EASILY ALTERED WITHOUT THE CONSENT OF ADVANCE DESIGN CONSULTANTS, INC. THE NET SIGNED DOCUMENTS MUST BE REFERRED TO FOR THE ORIGINAL AND CORRECT INFORMATION. IF THERE ARE ANY DIFFERENCES BETWEEN THE NET SIGNED DOCUMENTS AND ANY OTHER DOCUMENTS, THE NET SIGNED DOCUMENTS SHALL GOVERN. ADVANCE DESIGN CONSULTANTS, INC. IS NOT RESPONSIBLE FOR ANY MODIFICATIONS MADE TO OUR DOCUMENTS BY ANYONE OTHER THAN AUTHORIZED REPRESENTATIVES OF ADVANCE DESIGN CONSULTANTS, INC. PDF# 13-308-30		Drawing Title FIRE PROTECTION PARTIAL FIRST FLOOR PHARMACY AREA Approved: Project Director		Project Title B334 ROBOT PHARMACY INSTALLATION		Project Number 640AO-14-107M Building Number B334		Office of Facilities Management 	
100% CD (13-242) 1/31/14 95% CD (13-230) 1/9/14 95% SD / 50% CD (13-226) 12/18/13 Revisions: Date		Location MENLO PARK CAMPUS		Date 12/18/2013		Checked - Drawn -		Drawing Number FP-1 Dwg. -- of --							