VA PAHCS

Veterans Affairs Palo Alto Health Care System

VAPAHCS
VA SIMULATION CENTER

3801 MIRANDA AVE, PALO ALTO, CA 94304

VA PROJECT NO: 640-385
ISSUE FOR BID
JUNE 14, 2013

CANNONDESIGN

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ALTERNATES

ALTERNATES

SEE SPECIFICAITON 012300 FOR ALTERNATES

ALTERNATES #1 (ARCHITECTURAL)
1. BASE BID: PROVIDE LOBBY STAIR AS INDICATED
2. ALTERNATES: OMIT LOBBY STAIR (SHEET A0501)

ALTERNATES #2 (MECHANICAL)
1. BASE BID: PROVIDE SMOKE CONTROL SYSTEM FOR ATRIUM AS INDICATED IN MECHANICAL DRAWINGS.
2. ALTERNATES: OMIT SMOKE CONTROL SYSTEM.

ALTERNATES #3 (ARCHITECTURAL)
1. BASE BID: PROVIDE COMPOSITE WOOD WALL PANEL (MDF-1) AS INDICATED IN ARCHITECTURAL DRAWINGS.
2. ALTERNATES: OMIT COMPOSITE WOOD WALL PANEL.

ALTERNATES #4 (ARCHITECTURAL)
1. BASE BID: PROVIDE PERFORATED ACOUSTICAL WOOD WALL PANEL (WD-1) IN ATRIUM AS INDICATED IN ARCHITECTURAL DRAWINGS.
2. ALTERNATES: OMIT PERFORATED ACOUSTICAL WOOD WALL PANEL.

ALTERNATES #5 (ARCHITECTURAL)
1. BASE BID: PROVIDE FABRIC WRAPPED ACOUSTICAL PANEL (WC-1 & WC-2) AS INDICATED IN ARCHITECTURAL DRAWINGS.
2. ALTERNATES: OMIT FABRIC WRAPPED ACOUSTICAL PANEL.

ALTERNATES #6 (ARCHITECTURAL)
1. BASE BID: PROVIDE PORCELAIN WALL TILES AS INDICATED IN DRAWING 4,4B & 4C/A0203.
2. ALTERNATES: OMIT PORCELAIN WALL TILES AT THREE SIDE OF WALLS AND ONLY PROVIDE AT THE BACK WALL OF TOILET B161 AND B175

ALTERNATES #7 (ARCHITECTURAL)
1. BASE BID: PROVIDE EXTERIOR SUN CONTROL DEVICE AS INDICATED IN DRAWING A0301 & A0302.
2. ALTERNATES: OMIT EXTERIOR SUN CONTROL DEVICE.

GENERAL NOTES

KEY NOTES

LEGEND

PROJECT NORTH
TRUE NORTH

ISSUE FOR BID

Revisions	Date
9	
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1	

CONSULTANTS:

Seals and Signatures

ARCHITECT/ENGINEERS:

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Drawing Title: DRAWING INDEX & ALTERNATES

Approved: Project Director
Approver

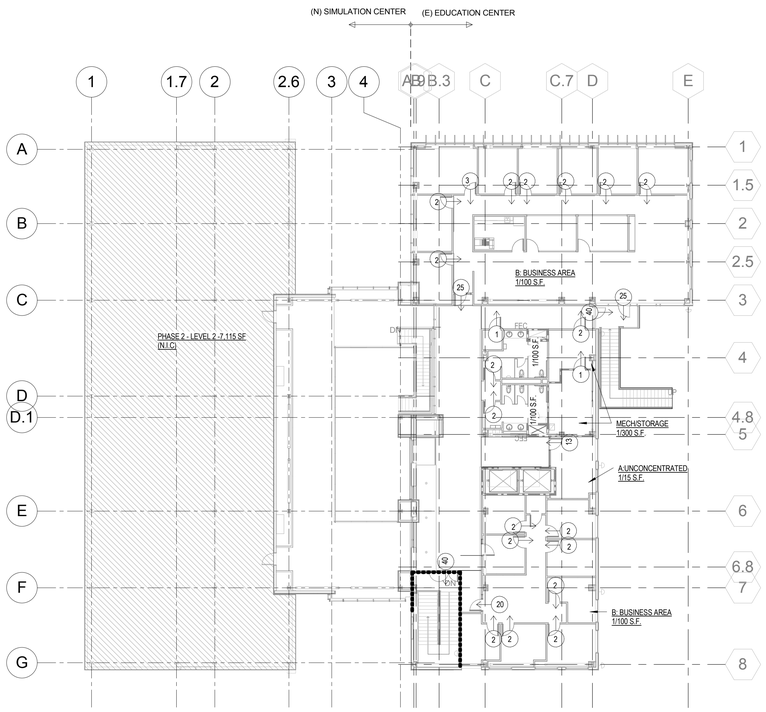
Project Title: VA SIMULATION CENTER

Location: Veterans Affairs Palo Alto Heath Care System, 3801 Miranda Ave,Palo Alto, CA 94304

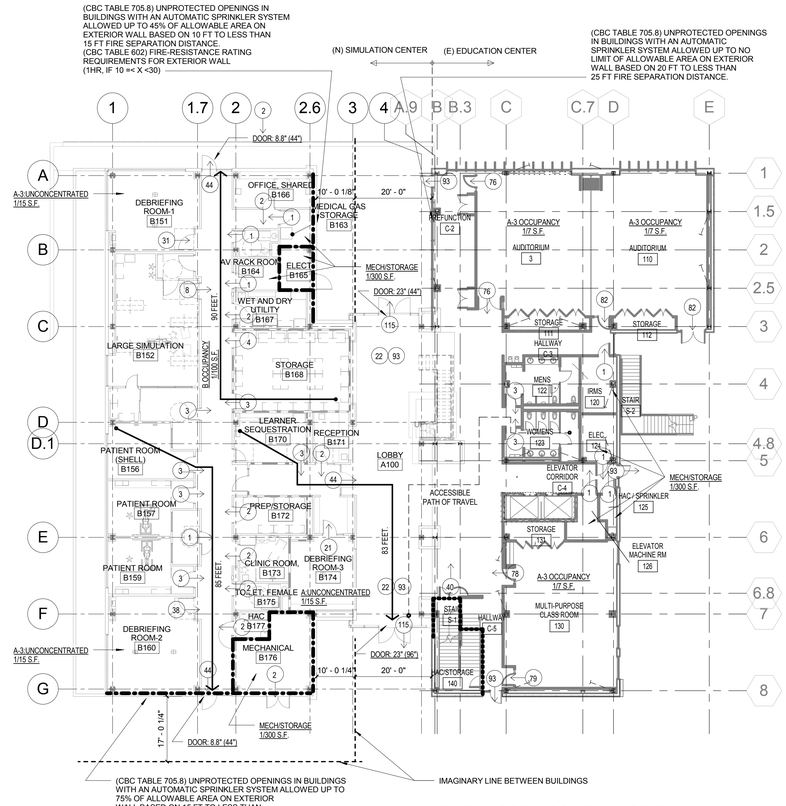
Date: JUNE 14, 2013 | Checked: CW | Drawn: WK

VA Project Number: 640-385
Building Number: 105
Drawing No. G0001

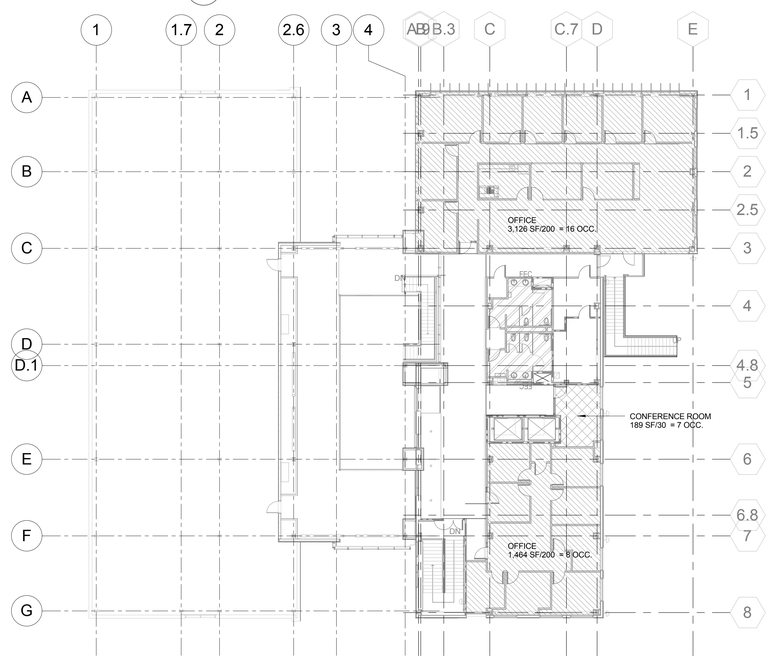
VA PAHCS Veterans Affairs Palo Alto Health Care System
Department of Veterans Affairs



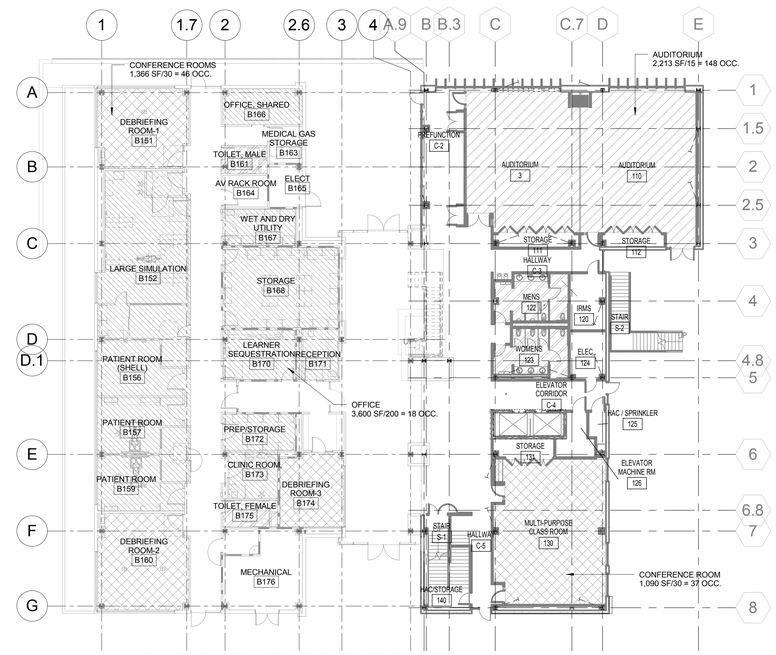
2 LEVEL 2 CODE COMPLIANCE PLAN
1/16" = 1'-0"



1 LEVEL 1 CODE COMPLIANCE PLAN
1/16" = 1'-0"



4 LEVEL 2 PLUMBING FIXTURE COUNT
1/16" = 1'-0"



3 LEVEL 1 PLUMBING FIXTURE COUNT
1/16" = 1'-0"

APPLICABLE CODES

A. ALL WORK SHALL CONFORM TO THE FOLLOWING AND ALL OTHER APPLICABLE CODES, STANDARDS AND ORDINANCES.

1. NFPA 101 LIFE SAFETY CODE
2. 2010 CALIFORNIA ADMINISTRATIVE CODE, PART 1, TITLE 24 C.C.R.
3. 2010 CALIFORNIA BUILDING CODE (CBC), PART 2, TITLE 24 C.C.R. (2009 IBC WITH 2010 CALIFORNIA AMENDMENTS)
4. 2010 CALIFORNIA ELECTRICAL CODE (CEC), PART 3, TITLE 24 C.C.R. (2008 NEC WITH 2010 CALIFORNIA AMENDMENTS)
5. 2010 CALIFORNIA MECHANICAL CODE (CMC), PART 4, TITLE 24 C.C.R. (2009 IMC WITH 2010 CALIFORNIA AMENDMENTS)
6. 2010 CALIFORNIA PLUMBING CODE (CPC), PART 5, TITLE 24 C.C.R. (2009 IPC WITH 2010 CALIFORNIA AMENDMENTS)
7. 2010 CALIFORNIA ENERGY CODE, PART 6, TITLE 24, C.C.R.
8. 2010 CALIFORNIA FIRE CODE, PART 9, TITLE 24 C.C.R. (2009 IFC WITH 2010 CALIFORNIA AMENDMENTS)
9. 2010 CALIFORNIA REFERENCED STANDARDS, PART 12, TITLE 24 C.C.R.
10. 2010 CALIFORNIA GREEN BUILDING STANDARDS CODE
11. CALIFORNIA CODE OF REGULATIONS, TITLE 17, DIVISION 1, CHAPTER 5 - SANITATION (ENVIRONMENTAL)
12. CALIFORNIA CODE OF REGULATIONS, TITLE 19, DIVISION 1 - STATE FIRE MARSHALL
13. NATIONAL FIRE PROTECTION ASSOCIATION, INC., STANDARD 13 - INSTALLATION OF SPRINKLER SYSTEMS
14. NATIONAL FIRE PROTECTION ASSOCIATION, INC., STANDARD 14 - INSTALLATION OF STANDPIPE AND HOSE SYSTEMS
15. NATIONAL FIRE PROTECTION ASSOCIATION, INC., STANDARD 20 - INSTALLATION OF STATIONARY PUMPS FOR FIRE PROTECTION
16. NATIONAL FIRE PROTECTION ASSOCIATION, INC., STANDARD 90A - INSTALLATION OF AIR CONDITIONING AND VENTILATING SYSTEMS
17. NATIONAL FIRE PROTECTION ASSOCIATION, INC., STANDARD 72 - NATIONAL FIRE ALARM CODE
18. OCCUPATIONAL, SAFETY AND HEALTH ADMINISTRATION (OSHA) STANDARDS
19. NATIONAL ELECTRIC CODE
20. NATIONAL STANDARD PLUMBING CODE (NSPC)
21. ASME BOILER AND PRESSURE VESSEL CODE
22. ASME CODE FOR PRESSURE PIPING
23. NATIONAL FIRE PROTECTION ASSOCIATION, INC., STANDARD 54 - NATIONAL FUEL GAS CODE

B. ALL WORK SHALL MEET OR EXCEED THE REQUIREMENTS OF THE VA REFERENCES:

1. VA DIRECTIVE, DESIGN MANUALS, MASTER SPECIFICATIONS, VA NATIONAL CAD STANDARD APPLICATION GUIDE, AND OTHER GUIDANCE ON THE TECHNICAL INFORMATION LIBRARY (TIL)
2. INTERNATIONAL BUILDING CODE (IBC) (ONLY WHEN SPECIFICALLY REFERENCED IN VA DESIGN DOCUMENTS
3. VA SEISMIC DESIGN REQUIREMENTS, H-18-8
4. UNIFORM FEDERAL ACCESSIBILITY STANDARDS (UFAS) INCLUDING VA SUPPLEMENT, BARRIER FREE DESIGN
5. ASHRAE STANDARD 62.1-VENTILATION FOR ACCEPTABLE INDOOR AIR QUALITY, 2010
6. ASHRAE STANDARD 90.1- ENERGY STANDARD FOR BUILDING EXCEPT LOW-RISE RESIDENTAIL BUILDINGS, 2010

PROJECT INFORMATION

1. BUILDING: VAPAHCS SIMULATION CENTER
2. ADDRESS: VA PALO ALTO, 3801 MIRANDA AVE, PALO ALTO, CA 94304
3. CONTRUCTION TYPE: TYPE III-B, (SIMULATION CENTER AND EDUCATION CENTER)
   0 HR - STRUCTURAL FRAME
   0 HR - FLOOR CONSTRUCTION (INCLUDING BEAMS + JOISTS)
   0 HR - ROOF CONSTRUCTION (INCLUDING BEAMS + JOISTS)
   0 HR - TYP WALL CONSTRUCTION (UNLESS OTHERWISE NOTED)
   MAXIMUM HEIGHT: 75 FEET (CBC TABLE 503 & CBC 504.2)
   MAXIMUM STORY : 4 (CBC TABLE 503 & CBC 504.2)
   MAXIMUM AREA PER FLOOR: 57,000 sf (CBC TABLE 503 & CBC 506.3)
4. OCCUPANCY: B OCCUPANCY
5. NUMBER OF STORIES: 2 STORIES
6. BUILDING HEIGHT: 33 FEET
7. LIFE SAFETY: FULLY AUTOMATIC AND MONITORED SPRINKLER SYSTEM
8. SCOPE OF WORK: NEW CONSTRUCTION
9. APPROXIMATE AREA:

(N) SIMULATION CENTER (IN SCOPE)	(E) EDUCATION CENTER (NOT IN SCOPE)	TOTAL BGSF
LEVEL 1: 10,147 GSF LEVEL 2: 1,996 GSF **TOTAL: 12,143 GSF**	LEVEL 1: 7,624 GSF LEVEL 2: 6,925 GSF **TOTAL: 14,549 GSF**	LEVEL 1: 17,771 GSF LEVEL 2: 8,921 GSF **TOTAL: 26,692 GSF**

10. OCCUPANT LOAD: GENERAL OFFICE: 1/100 SF
    CONFERENCE ROOM: 1/15 SF

PLUMBING FIXTURE COUNTS

1. PLUMBING OCC. LOAD
(2010 CALIFORNIA PLUMBING CODE - TABLE A :OCCUPANT LOAD FACTOR)

LEVEL 1	OCC LOAD
AUDITORIUM	148
CONFERENCE ROOM	83
OFFICE	18
LEVEL 2	
CONFERENCE ROOM	7
OFFICE	24
TOTAL OCC. LOAD	280
50% OCC. LOAD	140

2. PLUMBING FIXUTRE COUNTS
(2010 CALIFORNIA PLUMBING CODE - TABLE 4-1, OFFICE OR PUBLIC BUILDING)

OCC. LOAD			WC	URNL	LAV	DF
MALE	140	REQ'D	2	2	1	2
		PROVIDED	5	3	6	2
FEMALE	140	REQ'D	8		1	2
		PROVIDED	8		6	2

GENERAL NOTES

1. THE FLOOR PLAN BACKGROUND FOR NEW AND EXISTING CONSTRUCTION IS SHOWN IN GRAY HALF-TONE. DESIGNATIONS FOR FIRE RATED PARTITIONS, SMOKE PARTITIONS AND OTHER CODE COMPLIANCE RELATED INFORMATION ARE SHOWN FULL TONE. REFER TO CONTRACT DRAWINGS TO DETERMINE WHICH COMPONENTS ARE NEW AND WHICH ARE EXISTING.

2. THE FIRE AND SMOKE DESIGNATIONS FOR EXISTING CONSTRUCTION ARE SHOWN FOR REFERENCE ONLY AND ARE BASED ON INFORMATION PROVIDED BY OWNER. THIS INFORMATION HAS NOT BEEN INDEPENDENTLY VERIFIED BY CANNON DESIGN.

3. REFER TO ELECTRICAL DRAWINGS FOR LOCATIONS OF EXIT LIGHTS, EMERGENCY LIGHTS, AND FIRE ALARM SYSTEM.

4. REFER TO STRUCTURAL DRAWINGS FOR STRUCTURAL LOADS.

KEY NOTES

LEGEND

- 1 HR RATED WALL WITH 45 MIN OPENING PROTETION
- 1 HR RATED WALL WITH 60 MIN OPENING PROTETION
- 50 FEET — EXIT DIRECTION & DISTANCE
- 12 — OCCUPANT LOAD
- DOOR: 23" (96") — PROVIDED EXIT WIDTH; EXIT WIDTH BASED ON OCCPANT LOAD

PROJECT NORTH / TRUE NORTH

ISSUE FOR BID

Revisions	Date
9	
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CONSULTANTS:

Seals and Signatures

ARCHITECT/ENGINEERS:

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Drawing Title: CODE COMPLIANCE PLAN

Project Title: VA SIMULATION CENTER

VA Project Number: 640-385

Building Number: 105

Approved: Project Director
Approver

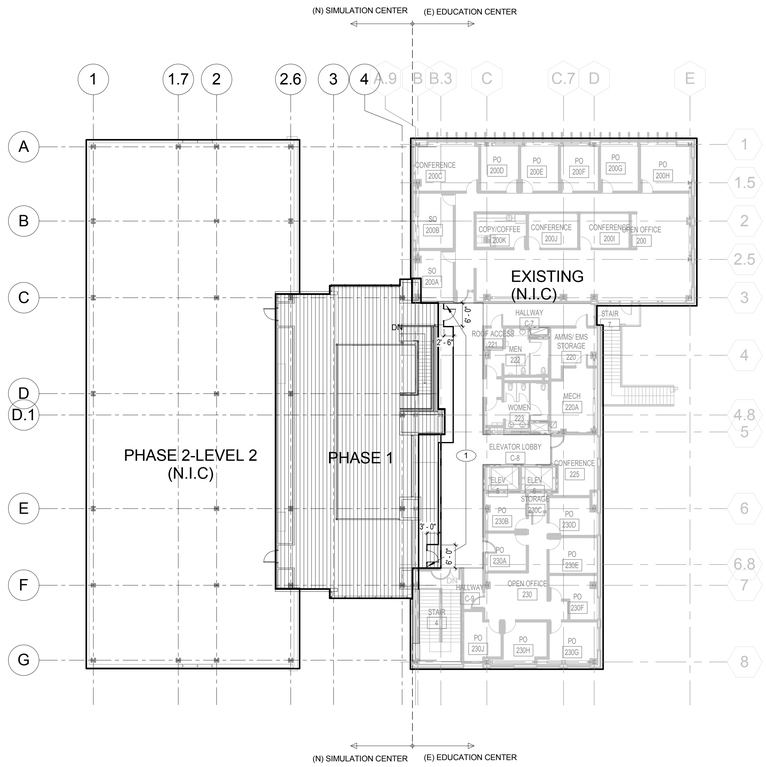
Location: Veterans Affairs Palo Alto Heath Care System, 3801 Miranda Ave,Palo Alto, CA 94304

Date: JUNE 14, 2013 | Checked: CW | Drawn: WK

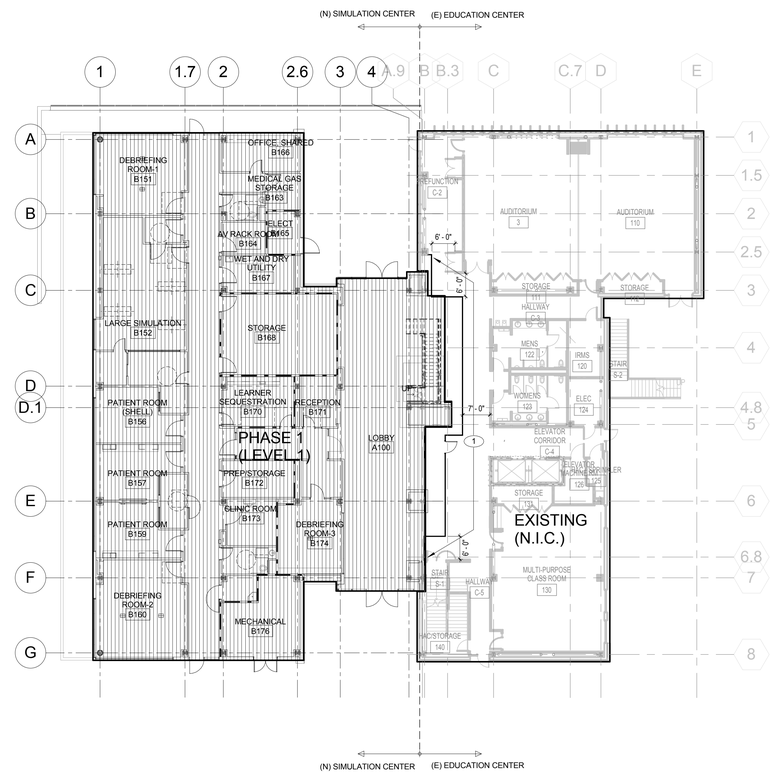
Drawing No. G0002

VA PAHCS Veterans Affairs Palo Alto Health Care System

Department of Veterans Affairs



2 LEVEL 2 - PHASING PLAN
1/16" = 1'-0"



1 LEVEL 1 - PHASING PLAN
1/16" = 1'-0"

GENERAL NOTES

1. GC SHALL CONFIRM TEMPORARY PARTITION LOCATION WITH VA PRIOR TO CONSTRUCTION START.

1. ALL TEMP. DOORS IN CONSTRUCTION PARTITIONS TO BE POSITIVE LATCHING AND BE EQUIPPED WITH SELF CLOSERS.

2. ALL TEMP. DOORS SHOULD HAVE THE ABILITY FOR 180 DEGRESS SWING.

KEY NOTES

1 TEMPORARY CONSTRUCTION PARTITION. (2 1/2" CH-STUD, SHAFT WALL CONSTRUCTION)

LEGEND

PROJECT NORTH
TRUE NORTH

ISSUE FOR BID

Revisions	Date
9	
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CONSULTANTS:

Seals and Signatures

ARCHITECT/ENGINEERS:

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Vancouver ■ Victoria ■ Washington DC

Drawing Title
PHASING PLAN

Approved: Project Director
Approver

Project Title
VA SIMULATION CENTER

Location
Veterans Affairs Palo Alto Heath Care System
3801 Miranda Ave,Palo Alto, CA 94304

Date
JUNE 14, 2013

Checked
CW

Drawn
WK

VA Project Number:
640-385

Building Number:
105

Drawing No.
G0003

VA PAHCS
Veterans Affairs Palo Alto Health Care System

Department of Veterans Affairs

GENERAL NOTES

1. CONTRACTOR SHALL POST EMERGENCY PHONE NUMBERS AT THE JOB SITE FOR PALO ALTO POLICE AND FIRE DEPARTMENTS, AMBULANCE, PUBLIC WORKS, VA POLICE, AND THE CONTRACTING OFFICER'S REPRESENTATIVE.

2. ALL UNDERGROUND UTILITIES SHALL BE COMPLETE BEFORE PLACING OF BASE ROCK UNLESS OTHERWISE NOTED.

3. CONTRACTOR SHALL NOTIFY THE PUBLIC OR PRIVATE UTILITY OWNERS 48 HOURS PRIOR TO COMMENCEMENT OF WORK ADJACENT TO THE UTILITY UNLESS AN EXCAVATION PERMIT SPECIFIES OTHERWISE.

4. CONTRACTOR SHALL COMPLY WITH THE RULES AND REGULATIONS OF THE STATE OF CALIFORNIA DIVISION OF INDUSTRIAL SAFETY CONSTRUCTION ORDER. THIS REQUIREMENT SHALL BE MADE TO APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS.

5. ALL MATERIALS SHALL BE FURNISHED AND INSTALLED BY THE CONTRACTOR UNLESS OTHERWISE NOTED.

6. PAVING CONTRACTOR TO RESET ALL MANHOLE RIMS, VALVE BOXES, AND OTHER SURFACE STRUCTURES TO GRADE AFTER THE LAST LIFT OF PAVING.

7. THE CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE AMPLE COVER FOR THE PROTECTION OF ALL INSTALLED UTILITIES DURING THE CONSTRUCTION OF THIS PROJECT.

8. THE CONTRACTOR IS RESPONSIBLE FOR MATCHING EXISTING STREETS, SURROUNDING LANDSCAPE AND OTHER IMPROVEMENTS WITH A SMOOTH TRANSITION IN PAVING, CURBS, GUTTERS, SIDEWALKS, GRADING, ETC., AND TO AVOID ANY ABRUPT OR APPARENT CHANGES IN GRADES OR CROSS SLOPES, LOW SPOTS OR HAZARDOUS CONDITIONS.

9. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING ALL NECESSARY UTILITY RELOCATIONS, IF REQUIRED, WITH THE APPROPRIATE UTILITY COMPANIES. THIS SHALL INCLUDE, BUT NOT BE LIMITED TO, THE COORDINATION WITH PG&E AND THE CITY OF PALO ALTO FOR THE CROSSING OF ANY EXISTING GAS MAIN THAT THE CONTRACTOR WILL ENCOUNTER.

10. CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL APPLICABLE PERMITS AND FURNISHING THE OWNER WITH A COPY OF ALL PERMITS AND FINAL ACCEPTANCES GRANTED BY THE UTILITY COMPANY AND/OR AGENCIES INVOLVED PRIOR TO COMMENCEMENT OF WORK. THIS SHALL INCLUDE, BUT IS NOT LIMITED TO, A STREET WORK/IMPROVEMENTS PERMIT FOR WORK WITHIN THE CITY RIGHT-OF-WAY/UTILITY EASEMENTS, DISCHARGE PERMITS FOR WATER DURING CONSTRUCTION (DEWATERING OPERATIONS, HYDROSTATIC TESTING, ETC.) AND HAULING OF MATERIALS OFF-SITE.

11. THE CONTRACTOR SHALL COORDINATE WITH VA CONTRACTING OFFICER'S REPRESENTATIVE AND SUBMIT A TRAFFIC / PHASING CONTROL PLAN, A CONSTRUCTION LOGISTICS PLAN, AND A CONSTRUCTION SEQUENCING PLAN.

12. CONTRACTOR IS RESPONSIBLE FOR HAVING EXISTING GAS LINES, POWER LINES, WATER LINES, ETC. DISCONNECTED AND RELOCATED IF NECESSARY. CONTRACTOR SHALL COORDINATE WORK WITH CONTRACTING OFFICER'S REPRESENTATIVE.

13. THE CONTRACTOR MUST MAINTAIN THE STREETS, SIDEWALKS, AND ANY OTHER RIGHTS-OF-WAY IN A CLEAN, SAFE, AND USABLE CONDITION. ANY SPILLS OF SOIL, ROCK OR CONSTRUCTION DEBRIS MUST BE REMOVED FROM THE PROPERTY DURING CONSTRUCTION AND UPON COMPLETION OF THE PROJECT.

14. CONTRACTOR SHALL BE RESPONSIBLE TO REPAIR OR REPLACE ANY EXISTING IMPROVEMENTS OR UNDERGROUND FACILITIES DAMAGED BY HIM, HIS SUBCONTRACTORS OR HIS MATERIAL SUPPLIERS.

15. THE CONTRACTOR SHALL PROVIDE ALL LIGHTS, SIGNS, BARRICADES, FLAGMEN OR OTHER DEVICES NECESSARY FOR PUBLIC SAFETY.

16. THE CONTRACTOR SHALL MAINTAIN SITES OF WORK DURING CONSTRUCTION SO AS TO KEEP THEM REASONABLY NEAT AND FREE OF TRASH, RUBBISH, AND OTHER DEBRIS. IN CLEAN-UP OPERATIONS, CONTRACTOR SHALL REMOVE ALL TEMPORARY STRUCTURES, RUBBISH AND WASTE MATERIALS FROM SITES OF WORK AND FROM PUBLIC AND PRIVATE PROPERTY.

17. THE CONTRACTOR WILL CONDUCT WORK ALONG ANY SECTION OF THIS PROJECT WHICH IS CROSSED BY, OR ADJACENT TO, A PUBLIC UTILITY SUCH AS GAS LINES, OVERHEAD POWER LINES, SEWER LINES, ETC. IN A MANNER SO THAT NO DAMAGES RESULT TO THESE UTILITIES. ALL POLES, WIRES, CABLES, CONDUITS, PIPELINES, OR OTHER STRUCTURES WITHIN THE WORK AREA, BELONGING TO MUNICIPALITIES OR PUBLIC UTILITY CORPORATIONS, SHALL BE PROTECTED BY THE CONTRACTOR. THE CONTRACTOR WILL BE HELD SOLELY RESPONSIBLE FOR DAMAGES TO SUCH UTILITIES AS A RESULT OF CARELESS OR NEGLIGENT OPERATIONS.

18. THE CONTRACTOR SHALL NOT DESTROY ANY PERMANENT SURVEY POINTS WITHOUT THE CONSENT OF THE CONTRACTING OFFICER'S REPRESENTATIVE. ANY PERMANENT MONUMENTS OR POINTS DESTROYED SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE BY A CALIFORNIA LICENSED SURVEYOR.

19. THE CONTRACTOR SHALL PROPERLY COORDINATE HIS WORK WITH THE WORK OF OTHER CONTRACTS THAT MAY BE UNDER WAY CONCURRENTLY WITH THIS PROJECT.

20. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PREVENTING AIRBORNE DUST NUISANCE FROM THE CONSTRUCTION SITE BY WATERING AND/OR TREATING THE SITE IN SUCH A MANNER TO CONFINE DUST PARTICLES TO THE IMMEDIATE SURFACE OF WORK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO THE SITE OR SURROUNDING AREA DUE TO DUST OR EROSION, RESULTING FROM WORK DONE BY THE CONTRACTOR. EROSION CONTROL MEASURES SHALL BE IN PLACE CONTINUOUSLY DURING CONSTRUCTION.

21. ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL CONFORM TO THE CALIFORNIA STORM WATER CONSTRUCTION BMP HANDBOOK, DATED JANUARY 2009.

22. THE CONTRACTOR SHALL CONFORM TO THE FOLLOWING REQUIREMENTS BASED ON BAY AREA AIR QUALITY MANAGEMENT DISTRICT (BAAQMD) STANDARDS: * WATER ALL ACTIVE CONSTRUCTION AREAS AT LEAST TWICE DAILY. * WATERING OR COVERING OF STOCKPILES OF DEBRIS, SOIL, SAND OR OTHER MATERIALS THAT CAN BE BLOWN BY WIND. * COVER ALL TRUCKS HAULING SOIL, SAND, AND OTHER LOOSE MATERIALS OR ALL TRUCKS SHALL MAINTAIN TWO FEET OF FREEBOARD. * APPLY WATER THREE (3) TIMES DAILY, OR APPLY (NON-TOXIC) SOIL STABILIZERS ON ALL UNPAVED ACCESS ROAD, PARKING AREAS AND STAGING AREAS AT THE SITE AND ADJACENT PUBLIC STREETS. *HYDROSEED OR APPLY NON-TOXIC SOIL STABILIZERS TO INACTIVE CONSTRUCTION AREAS. * ENCLOSE, COVER, WATER TWICE DAILY OR APPLY NON-TOXIC SOIL BINDERS TO EXPOSED STOCKPILES (DIRT, SAND, ETC.)

23. THE CONTRACTOR SHALL PROVIDE A "QUALIFIED SWPPP DEVELOPER" (QSD) WHO WILL BE RESPONSIBLE FOR DEVELOPING A STORMWATER POLLUTION PREVENTION PLAN FOR THIS PROJECT. THE CONTRACTOR WILL BE RESPONSIBLE FOR REVIEWING AND IMPLEMENTING THE PROVISIONS SPECIFIED IN THE SWPPP AND THE EROSION CONTROL PLANS. THE CONTRACTOR SHALL ALSO PROVIDE A "QUALIFIED SWPPP PRACTITIONER" (QSP) WHO WILL BE RESPONSIBLE FOR IMPLEMENTING ALL SWPPP REQUIREMENTS.

24. EXISTING CURB AND GUTTER THAT ARE DAMAGED OR DISPLACED BY THE CONTRACTOR'S OPERATION SHALL BE REPAIRED OR REPLACED BY THE CONTRACTOR, AT THE CONTRACTOR'S EXPENSE.

25. CONTRACTOR SHALL CONDUCT HIS WORK IN SUCH A MANNER AS TO NOT INTERFERE OR BLOCK EXISTING DRAINAGE. MANNER OF MAINTAINING DRAINAGE SHALL BE SUBJECT TO APPROVAL OF THE CONTRACTING OFFICER'S REPRESENTATIVE. BASED ON THE CONTRACTOR'S SEQUENCING OF THE WORK, IF TEMPORARY DRAINAGE FACILITIES ARE REQUIRED, CONTRACTOR SHALL SUBMIT A PLAN FOR THE TEMPORARY IMPROVEMENTS TO THE CONTRACTING OFFICER'S REPRESENTATIVE FOR APPROVAL.

26. THE MANIPULATION OF EXISTING WATER VALVES SHALL BE DONE BY STATION ENGINEERING STAFF ONLY.

27. THE CONTRACTOR'S ATTENTION IS DIRECTED TO THE REQUIREMENTS OF THE DIVISION OF INDUSTRIAL SAFETY PERTAINING TO "CONFINED SPACES." ANY MANHOLE, CULVERT, DROP INLET OR TRENCH WHICH COULD CONTAIN AIR WHICH IS NOT READILY VENTILATED MAY BE CONSIDERED A "CONFINED SPACE."

28. THE CONTRACTOR SHALL REPLACE OR REPAIR ALL FENCE (HOG WIRE, BARBED WIRE, CYCLONE, ETC.) DAMAGED OR MOVED IN CONNECTION WITH OPERATIONS UNDER THIS WORK USING THE NEW MATERIAL WHERE NECESSARY. THE CONTRACTOR WILL BE ALLOWED TO REPLACE THE ORIGINAL FENCE OR RELOCATE THE ORIGINAL FENCE, PROVIDING THIS MATERIAL IS USABLE IN THE OPINION OF THE CONTRACTING OFFICER'S REPRESENTATIVE. WHEN NEW MATERIAL IS NECESSARY, SUCH MATERIAL WILL BE REPLACEMENT OF THE ORIGINAL FENCE IN REGARDS TO TYPE OF FENCING POSTS AND CONSTRUCTION.

29. IF ANY CULTURAL FEATURES OR ARCHEOLOGICAL MATERIALS ARE UNCOVERED DURING GRADING, TRENCHING, OR OTHER EXCAVATION WORK, ALL WORK WITHIN 100 FEET OF THESE MATERIALS SHALL BE STOPPED UNTIL A PROFESSIONAL ARCHEOLOGIST (SOPA) AND/OR THE SOCIETY OF CALIFORNIA ARCHEOLOGY (SCA) HAS HAD AN OPPORTUNITY TO EVALUATE THE SIGNIFICANCE OF THE FIND AND APPROPRIATE MITIGATION MEASURES ARE DETERMINED AND IMPLEMENTED. CONTRACTOR SHALL ALSO NOTIFY THE CONTRACTING OFFICER'S REPRESENTATIVE.

30. ALL REVISIONS TO THIS PLAN MUST BE APPROVED BY THE CONTRACTING OFFICER'S REPRESENTATIVE PRIOR TO CONSTRUCTION AND SHALL BE ACCURATELY SHOWN ON REVISED PLANS PRIOR TO ACCEPTANCE OF THE WORK AS COMPLETE. THE CONTRACTOR SHALL BE HELD RESPONSIBLE FOR ANY FIELD CHANGES MADE WITHOUT WRITTEN AUTHORIZATION FROM THE CONTRACTING OFFICER'S REPRESENTATIVE.

31. GROUNDWATER IS ANTICIPATED TO BE ENCOUNTERED DURING EXCAVATION OF UTILITY TRENCHES. REFER TO GEOTECHNICAL REPORT FOR DESIGNED GROUNDWATER LEVELS FOR VARIOUS AREAS OF THE SITE.

SURVEY NOTE

THE BACKGROUND SURVEY INFORMATION SHOWN ON THIS PLAN IS COMPILED FROM DRAWINGS SUPPLIED BY THE OWNER AND TOPOGRAPHIC SURVEYS PERFORMED BY BKF.

BASIS OF BEARINGS

COORDINATES, BEARINGS, AND DISTANCES SHOWN ON THIS SURVEY ARE BASED ON THE NORTH AMERICAN DATUM OF 1983 (NAD 83) CCS83, CALIFORNIA ZONE 3. THE COORDINATES WERE DETERMINED BY HOLDING THE NAD 83, CCS83 (EPOCH 2007.00) STATE PLANE COORDINATE VALUES OF NGS CONTROL POINTS AA1871 AND AA1873.

TO CONVERT GRID DISTANCES, MULTIPLY VALUES SHOWN BY 1.00005205 TO OBTAIN GROUND DISTANCES.

POINT NO. AA1871
NORTHING = 1947025.36
EASTING = 6101392.37
DESCRIPTION = SURVEY DISK STAMPED "SAN ANTONIO HPGN-D 1992"

POINT NO AA1873
NORTHING = 1967517.66
EASTING = 6129781.48
DESCRIPTION = SURVEY DISK STAMPED "MISSION HPGN-D 1992"

BENCHMARK

BENCHMARK: BM065

FOUND BRASS DISK ON TOP OF THE MIDDLE OF THE NORTHEASTERN HEADWALL FOR BARRON CREEK AND MIRANDA DRIVE, APPROXIMATELY 1500 FEET NORTHWEST FROM ARASTRADERO ROAD AT FOOTHILL EXPRESSWAY.

ELEVATION 100.09 FEET (NAVD 88)

UTILITY NOTES

1. ALL SERVICES TO EXISTING BUILDINGS TO REMAIN SHALL REMAIN OPERATIONAL AT ALL TIMES DURING THE PROJECT.

2. UNLESS OTHERWISE INDICATED ON THE PLANS, SEPARATION OF SANITARY SEWER AND WATER PIPES SHALL BE 10' HORIZONTAL AND 2' VERTICAL. SEPARATION OF SANITARY SEWER AND STORM DRAIN PIPES SHALL BE 4' HORIZONTAL AND 1' VERTICAL. SEPARATION OF ALL OTHER UTILITIES SHALL BE 5' HORIZONTAL AND 1' VERTICAL WHENEVER POSSIBLE.

3. PROPOSED STORM DRAIN AND SEWER SYSTEMS SHALL BE CONSTRUCTED STARTING AT THE DOWNSTREAM END. CONTRACTOR SHALL VERIFY INVERTS OF EXISTING GRAVITY PIPES PRIOR TO STARTING EXCAVATION WORK.

4. CONTRACTOR SHALL REFER TO ELECTRICAL AND TELECOMMUNICATIONS PLANS FOR REQUIRED WORK.

5. STEAM, CONDENSATE RETURN, AND CHILLED WATER SYSTEMS ARE SHOWN ON THE CIVIL PLANS ONLY FOR PURPOSES OF COORDINATION WITH OTHER SITE UTILITIES. CONTRACTOR SHALL REFER TO MECHANICAL PLANS FOR REQUIRED WORK.

6. CONTRACTOR SHALL PROVIDE TEMPORARY CONVEYANCE OF STORM DRAINAGE IN AREAS WHERE PORTIONS OF THE EXISTING DRAINAGE SYSTEM ARE DEMOLISHED AND REROUTED.

CONTRACTOR RESPONSIBILITY

CONTRACTOR AGREES TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS, INCLUDING THE SAFETY OF ALL PERSONS AND PROPERTY, DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT, AND THAT THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS. THE CONTRACTOR SHALL DEFEND, INDEMNIFY AND HOLD THE OWNER AND THE ENGINEER HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING FOR LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE OWNER OR THE ENGINEER.

DISCREPANCIES

IF THERE ARE ANY DISCREPANCIES BETWEEN DIMENSIONS IN DRAWINGS AND EXISTING CONDITIONS WHICH WILL AFFECT THE WORK, THE CONTRACTOR SHALL BRING SUCH DISCREPANCIES TO THE ATTENTION OF THE CONTRACTING OFFICER'S REPRESENTATIVE FOR ADJUSTMENT BEFORE PROCEEDING WITH THE WORK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROPER FITTING OF ALL WORK AND FOR THE COORDINATION OF ALL TRADES, SUBCONTRACTORS, AND PERSONS ENGAGED UPON THIS CONTRACT.

EARTHWORK NOTE

IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO INCLUDE ALL MATERIAL AND LABOR REQUIRED WITHIN THE BID PRICE, FOR EARTHWORK CONSTRUCTION, TO CARRY OUT THE CUT/FILL AND/OR IMPORT/EXPORT AS NECESSARY TO MEET THE DESIGN GRADES SHOWN ON THE PLANS. CONTRACTOR IS TO DELIVER TO OWNER THE PROJECT IN A COMPLETE AND OPERATIONAL MANNER. THE CONTRACTOR IS RESPONSIBLE FOR ANY INVESTIGATION OR STUDIES THAT ARE REQUIRED BY THE CONTRACTOR TO SATISFY THIS REQUIREMENT. NO ADDITIONAL COMPENSATION SHALL BE PAID FOR SAID CUT/FILL AND/OR IMPORT/EXPORT.

ABAAS NOTES

1. ALL SITE WORK SHALL BE IN CONFORMANCE WITH THE ARCHITECTURAL BARRIERS ACT ACCESSIBILITY STANDARDS EXCEPT AS MODIFIED BY THE DEPARTMENT OF VETERANS AFFAIRS BARRIER FREE DESIGN GUIDE (PG-18-13).

2. CURB RAMPS SHALL BE A MINIMUM OF 4 FEET WIDE AND NOT EXCEED A SLOPE OF 1:12 (8.33%).

3. WALKS SHALL NOT EXCEED A SLOPE OF 1:33 (3%). PEDESTRIAN RAMPS SHALL NOT EXCEED 1:20 (5%).

4. A 2% MAXIMUM SLOPE LANDING SHALL BE PROVIDED AT PRIMARY ENTRANCES TO BUILDINGS, THE LANDINGS SHALL HAVE A MINIMUM WIDTH OF 72" WHEN THE DOOR OPENS INTO THE BUILDING. WHEN THE DOOR OPENS ONTO THE LANDING THE DEPTH SHALL BE 42" PLUS THE WIDTH OF THE DOOR MINIMUM.

5. RAMPS ARE DEFINED AS ANY WALKWAY WITH SLOPES BETWEEN 1:33 (3%) AND 1:20 (5%), AND SHALL HAVE A MAXIMUM CROSS SLOPE OF 2%. RAMPS SHALL HAVE INTERMEDIATE (2% MAXIMUM SLOPE) LANDINGS A MINIMUM OF 60" BY 60" IN SIZE. LANDINGS SHALL BE EVERY 40 FEET FOR RAMPS BETWEEN 1:33 AND 1:25, AND EVERY 35 FEET FOR RAMPS BETWEEN 1:25 AND 1:20. ALL RAMPS SHALL HAVE HANDRAILS, AND EDGE PROTECTION OR GUIDE RAILS.

6. MAXIMUM CROSS SLOPE ON ANY WALK OR RAMP SHALL BE 2% MAXIMUM. SLOPE WITHIN PARKING STALLS DESIGNATED AS ACCESSIBLE PARKING SHALL BE 2% MAXIMUM IN ANY DIRECTION.

EXISTING UTILITY NOTES

1. A REASONABLE EFFORT HAS BEEN MADE TO LOCATE AND DELINEATE ALL KNOWN UNDERGROUND UTILITIES. THE TYPES, LOCATIONS, EXTENTS, SIZES AND DEPTHS OF EXISTING UNDERGROUND UTILITIES SHOWN ON THE PLANS ARE APPROXIMATE AND WERE OBTAINED FROM VARIOUS SOURCES, INCLUDING TOPOGRAPHIC FIELD SURVEYS, ELECTRONIC UTILITY LOCATION SURVEYS, AS-BUILT DRAWINGS, AND VA FACILITY MAPS. ABANDONED UNDERGROUND UTILITIES MAY EXIST, THE LOCATION OF WHICH ARE NOT KNOWN. CONTRACTOR IS CAUTIONED THAT THE TYPES, LOCATIONS, EXTENTS, SIZES AND DEPTHS OF EXISTING UNDERGROUND UTILITIES INDICATED ON THE PLANS MAY NOT BE THE TYPES, LOCATIONS, EXTENTS, SIZES AND DEPTHS ENCOUNTERED IN THE FIELD.

2. ONLY EXCAVATION AND PHYSICAL EXPOSURE WILL REVEAL THE ACTUAL TYPES, EXTENT, SIZES, LOCATIONS AND DEPTHS OF EXISTING UNDERGROUND UTILITIES. CONTRACTOR SHALL BE RESPONSIBLE FOR POTHOLING EXISTING UNDERGROUND UTILITIES WITHIN THE AREA OF WORK. CONTRACTOR SHALL RETAIN A PRIVATE UTILITY LOCATOR TO IDENTIFY EXISTING UTILITIES. THE CONTRACTOR SHALL POTHOLE AS NECESSARY AT CONNECTION LOCATIONS AND PROPOSED UTILITY CROSSINGS TO FULLY LOCATE AND IDENTIFY EXISTING UTILITIES. POTHOLING SHALL BE DONE AND THE RESULTS, INCLUDING ANY CONFLICTS IDENTIFIED, REPORTED TO THE CONTRACTING OFFICER'S REPRESENTATIVE PRIOR TO THE START OF WORK.

3. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING HIS WORK TO AVOID CONFLICTS BETWEEN SEWER LATERALS, STORM DRAINS, WATER MAINS, AND ALL OTHER UNDERGROUND UTILITIES.

4. THE CONTRACTOR IS ADVISED THAT SOME OF THE EXISTING WATER AND IRRIGATION MAINS WITHIN THE VA CAMPUS ARE CONSTRUCTED WITH TRANSITE PIPE. THE CONTRACTOR SHALL NOTIFY THE CONTRACTING OFFICER'S REPRESENTATIVE IF TRANSITE WATER PIPE MATERIAL IS UNCOVERED IN THIS PROJECT. THE CONTRACTOR SHALL ALSO FOLLOW ALL OSHA STANDARDS FOR WORK CREW AND SAFETY WHEN WORKING AROUND TRANSITE PIPES. REFER TO THE PROJECT SPECIFICATIONS FOR ASBESTOS ABATEMENT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVAL AND LAWFUL DISPOSAL OF TRANSITE PIPE MATERIALS.

ABBREVIATIONS

Δ	ANGLE OF AN ARC (DELTA)	RT	RIGHT
AB	AGGREGATE BASE	S	SOUTH OR SLOPE
AC	ASPHALTIC CONCRETE	S.L.D.	SEE LANDSCAPE DRAWINGS
AD	AREA DRAIN	SD	STORM DRAIN
BLDG	BUILDING	SDCB	STORM DRAIN CATCH BASIN
BFP	BACKFLOW PREVENTER	SDCI	STORM DRAIN CURB INLET
BS	BOTTOM STAIRS	SDCO	STORM DRAIN CLEAN OUT
BW	BOTTOM OF WALL	SDDI	STORM DRAIN DROP INLET
C	CONCRETE	SDMH	STORM DRAIN MANHOLE
CB	CATCH BASIN	SS	SANITARY SEWER
CO	CLEAN OUT	SSCO	SANITARY SEWER CLEA NOUT
CONC	CONCRETE	SSMH	SANITARY SEWER MANHOLE
DDC	DOUBLE DETECTOR CHECK	SOV	SHUT OFF VALVE
DIP	DUCTILE IRON PIPE	STA	STATION
DIA	DIAMETER	SW	SIDEWALK
DI	DRAINAGE INLET	R	RADIUS
DW	DOMESTIC WATER	RCP	REINFORCED CONCRETE PIPE
E	EASTING OR EAST OR ELECTRICAL	T & G JOINT	TONGUE & GROOVE JOINT
EC	END OF CURVE	TC	TOP OF CURB
ED	EMERGENCY DEPARTMENT	TH	THRESHOLD
(E)	EXISTING	THRU	INVERT THROUGH MANHOLE
EX	EXISTING	TS	TOP STAIRS
EL	ELEVATION	TV	TOP OF VAULT
ELEV	ELEVATION	TW	TOP OF WALL
EP	EXISTING PAVEMENT	TYP	TYPICAL
EVC	END VERTICAL CURVE	UNK	UNKOWNN
FDC	FIRE DEPARTMENT CONNECTION	VC	VERTICAL CURVE
FG	FINISHED GRADE/GROUND	VERT	VERTICAL
FF	FINISHED FLOOR	W	WEST OR WATER
FL	FLOW LINE	WD	WATER DOMESTIC
FH	FIRE HYDRANT	WF	WATER FIRE
FW	FIRE WATER	WV	WATER VALVE
FS	FINISHED SURFACE		
GB	GRADE BREAK		
GR	GRADE OR GRATE		
HDPE	HIGH DENSITY POLYETHYLENE		
HORZ	HORIZONTAL		
INV	INVERT		
L	LENGTH		
LF	LINEAR FEET		
P	PAVEMENT		
PCC	PORTLAND CEMENT CONCRETE		
PERF	PERFORATED		
PIV	POST INDICATOR VALVE		
POC	POINT OF CONNECTION		
PR	PROPOSED		
PRC	POINT OF REVERSE CURVATURE		
PS2	PARKING STRUCTURE 2		
PT	POINT OF TANGENCY OR POINT		
PVC	POINT OF VERTICAL CURVATURE OR POLYVINYL CHLORIDE		
PVI	POINT OF VERTICAL INTERSECT		
RIM	UTILITY STRUCTURE RIM		
RCP	REINFORCED CONCRETE PIPE		
RPP	REDUCED PRESSURE PRINCIPLE		

LEGEND

LEGEND	NEW	EXISTING
LIMIT OF WORK		
STORM DRAIN LINE		SD
SANITARY SEWER LINE	SS	SS
POTABLE WATER LINE	W	W
GAS LINE	GAS	GAS
ELECTRICAL CONDUIT / DUCT BANK		E
TELECOMMUNICATIONS CONDUIT / DUCT BANK		T
LIGHTING CONDUIT		
IRRIGATION LINE		
PERFORATED DRAIN PIPE		
FENCE		
SITE ENCLOSURE WALL		
FLOW LINE		
BUILDING ENVELOPE		
UTILITY LINE TO BE REMOVED		
ABANDONED TRANSITE WATER LINE		WD
DETAIL REFERENCE – DETAIL # / SHEET#	17 CS1.8.1	
STORM DRAIN CURB INLET		
STORM DRAIN AREA DRAIN		
STORM DRAIN MANHOLE		
PRECAST CONCRETE STORM DRAIN INLET / BUBBLER		
CLEANOUT	CO	CO
SANITARY SEWER MANHOLE		
FIRE HYDRANT	FH	FH
POST INDICATOR VALVE	PIV	
WATER VALVE	WV PLAN / PROFILE	WV
WATER LINE STOP VALVE	WV	WV
FIRE DEPARTMENT CONNECTION	FDC	FDC
BACKFLOW PREVENTER		BFP
SIGN		
SURVEY CONTROL POINT – FLIGHT CROSS		
SURVEY CONTROL POINT		
LIGHT POLE		
ELECTRICAL OR TELECOMMUNICATIONS VAULT		
LIMIT OF DEMOLITION		

ISSUE FOR BID

Revisions		Date
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St. Louis ■ San Francisco ■ Shanghai ■ Toronto
Vancouver ■ Victoria ■ Washington DC

Drawing Title: GENERAL NOTES

Approved: Project Director

Project Title: VA SIMULATION CENTER

Location: Veterans Affairs Palo Alto Heath Care System, 3801 Miranda Ave,Palo Alto, CA 94301

Date: JUNE 14, 2013 | Checked: AH | Drawn: JS/AH

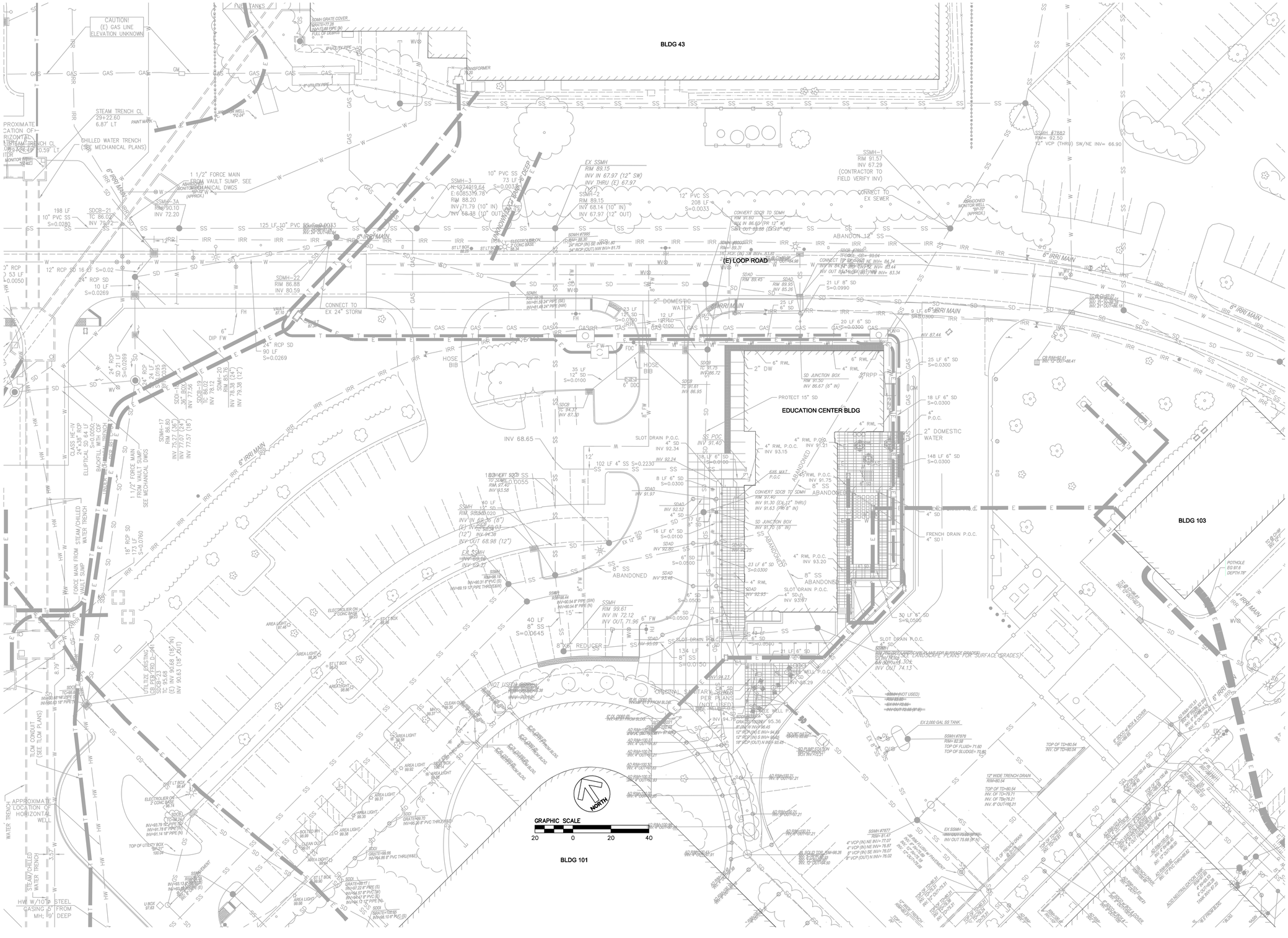
VA Project Number: 640-385

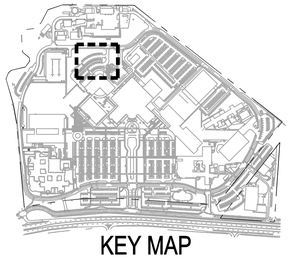
Building Number: 105

Drawing No. C0001

VA PAHCS Veterans Affairs Palo Alto Health Care System

Department of Veterans Affairs





KEY MAP

PROJECT NORTH
TRUE NORTH

ISSUE FOR BID

Revisions	Date
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Vancouver ■ Victoria ■ Washington DC

Drawing Title: EXISTING CONDITIONS PLAN

Approved: Project Director

Project Title: VA SIMULATION CENTER

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Building Number: 105

Drawing No.: C0101

VA PAHCS Veterans Affairs Palo Alto Health Care System

Department of Veterans Affairs

DEMOLITION HATCH LEGEND

- REMOVE ASPHALT AND AGGREGATE BASE
- REMOVE CONCRETE CURB/GUTTER
- REMOVE CONCRETE SIDEWALK
- CLEAR AND GRUB
- REMOVE UTILITY LINE

BLDG 43

BLDG 103

BLDG 101

EDUCATION CENTER BLDG

(E) LOOP ROAD

PROTECT LOOP ROAD
PROTECT CONCRETE SIDEWALK
REMOVE AC PAVEMENT AND AB
REMOVE CURB AND GUTTER
REMOVE CONCRETE SIDEWALK
PROTECT CURB AND GUTTER
IRRIGATION LINE
GAS LINE
ELECTRICAL LINE
PROTECT ASPHALT AND AGGREGATE BASE
REMOVE CURB AND GUTTER
LIMIT OF DEMOLITION
PROTECT SS PIPING
PROTECT ASPHALT AND AGGREGATE BASE
SAWCUT LINE
REMOVE SD DROP INLET
REMOVE CURB
ADJUST SSMH TO FINAL GRADE
REMOVE TREE
CLEAR AND GRUB
REMOVE CURB AND GUTTER
ADJUST SSMH TO NEW GRADE
REMOVE ASPHALT AND AGGREGATE BASE
ADJUST SSMH TO NEW GRADE
SAWCUT LINE
ADJUST CLEAN OUT TO FINAL GRADE
ADJUST MANHOLE TO FINAL GRADE
ADJUST SSMH TO NEW GRADE
PROTECT SS PIPING
RELOCATE FH AND SEE UTILITY PLAN FOR NEW LOCATION
PROTECT WATER LINE
REMOVE CURB AND GUTTER
PROTECT CURB RAMP
PROTECT FH
REMOVE TELECOM MH SEE TELECOM PLANS
REMOVE ELECTRICAL MH SEE ELECTRICAL PLANS
REMOVE 6"FW PIPING
RELOCATE EDC
RELOCATE 6"DDC
REMOVE SD DROP INLET
REMOVE FW PIPING
REMOVE SS PIPING
REMOVE SDAD
REMOVE SDAD
REMOVE SD PIPING
REMOVE SDMH
REMOVE LIGHT POLE AND CONC. BASE
REMOVE SDAD
REMOVE SDAD
PROTECT ASPHALT AND AGGREGATE BASE
SAWCUT LINE
PROTECT CONCRETE VALLEY GUTTER
REMOVE CURB AND GUTTER
PROTECT CURB RAMP
PROTECT 6"FW SERVICE
PROTECT 2"DW SERVICE
REMOVE WALL
REMOVE SDMH
REMOVE SD DROP INLETS
REMOVE CONCRETE CURB
REMOVE WALL
ABANDONDED SS PIPING
REMOVE LIGHT BOLLARDS (TYP-8)
REMOVE SDMH
REMOVE AREA DRAIN SYSTEM PIPING
ABANDONDED SS PIPING
REMOVE WALL
ABANDONDED SS PIPING
REMOVE PAVERS
PROTECT STEPS AND HANDRAILS
PROTECT SD PIPING
RELOCATE BIKE RACKS, SEE LANDSCAPE PLANS FOR NEW LOCATION

GRAPHIC SCALE
20 0 20 40

NORTH

KEY MAP

PROJECT NORTH
TRUE NORTH

ISSUE FOR BID

Revisions	Date
9	
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Vancouver ■ Victoria ■ Washington DC

Drawing Title: DEMOLITION PLAN

Approved: Project Director

Project Title: VA SIMULATION CENTER

Location: Veterans Affairs Palo Alto Heath Care System, 3801 Miranda Ave,Palo Alto, CA 94301

Date: JUNE 14, 2013 | Checked: AH | Drawn: JS/AH

VA Project Number: 640-385

Building Number: 105

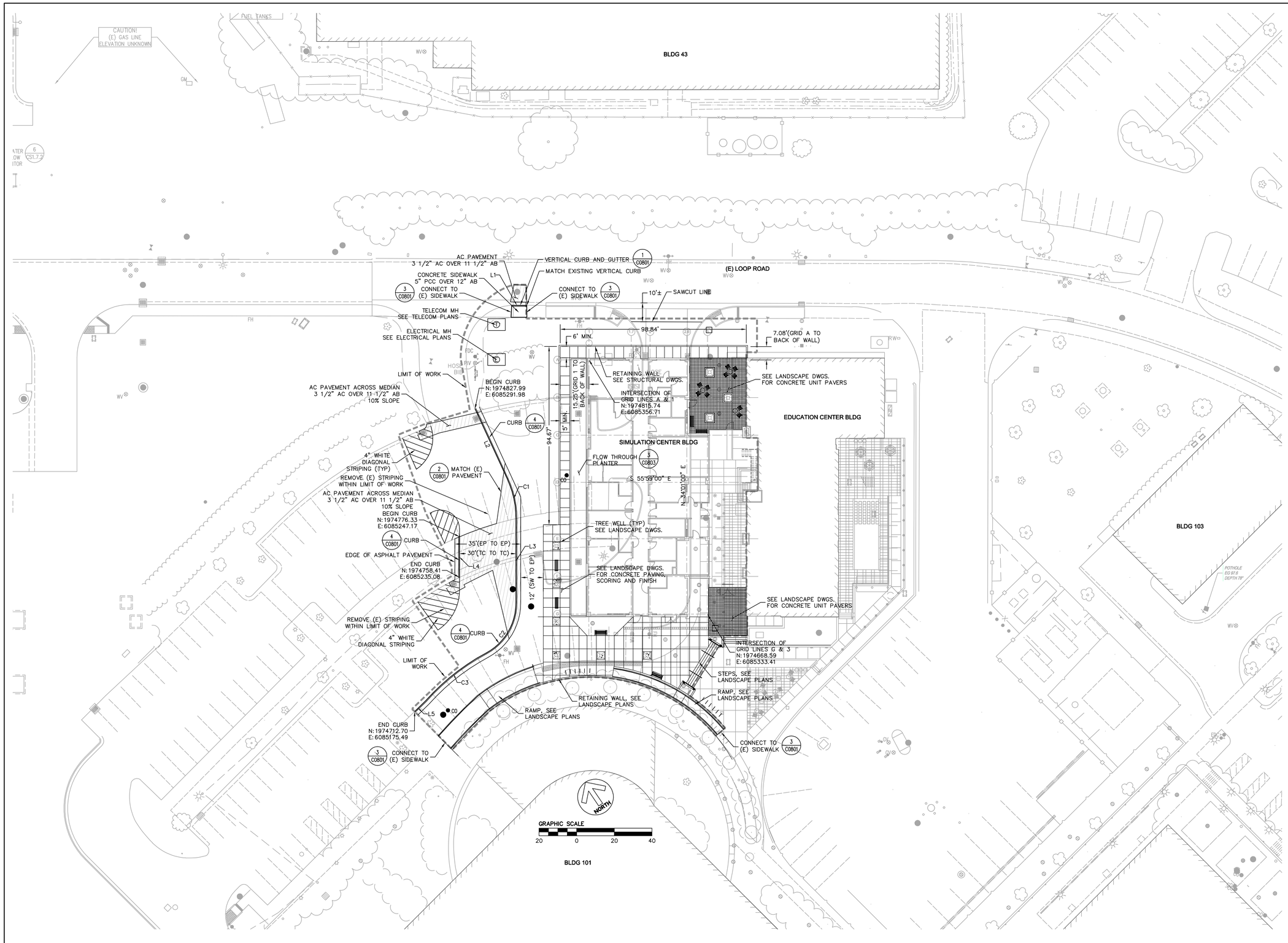
Drawing No. C0201

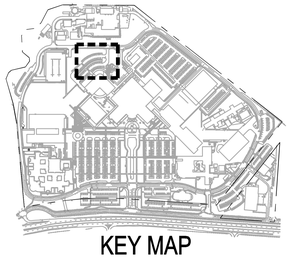
VA PAHCS Veterans Affairs Palo Alto Health Care System

Department of Veterans Affairs

LINE TABLE		
LINE NO.	LENGTH	DIRECTION
L1	7.99	S55°46'49"E
L2	41.09	N09°17'57"E
L3	44.97	S34°01'00"W
L4	21.62	S34°01'00"W
L5	8.06	N79°49'28"E

CURVE TABLE			
CURVE NO.	LENGTH	RADIUS	DELTA
C1	21.57	50.00	024°43'03"
C2	32.31	30.00	061°42'53"
C3	41.32	118.00	020°03'46"





KEY MAP

PROJECT NORTH
TRUE NORTH

ISSUE FOR BID

Revisions	Date
9	
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CONSULTANTS:

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Seals and Signatures

ARCHITECT/ENGINEERS:

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Drawing Title: LAYOUT PLAN

Approved: Project Director

Project Title: VA SIMULATION CENTER

Location: Veterans Affairs Palo Alto Heath Care System, 3801 Miranda Ave,Palo Alto, CA 94301

Date: JUNE 14, 2013 | Checked: AH | Drawn: JS/AH

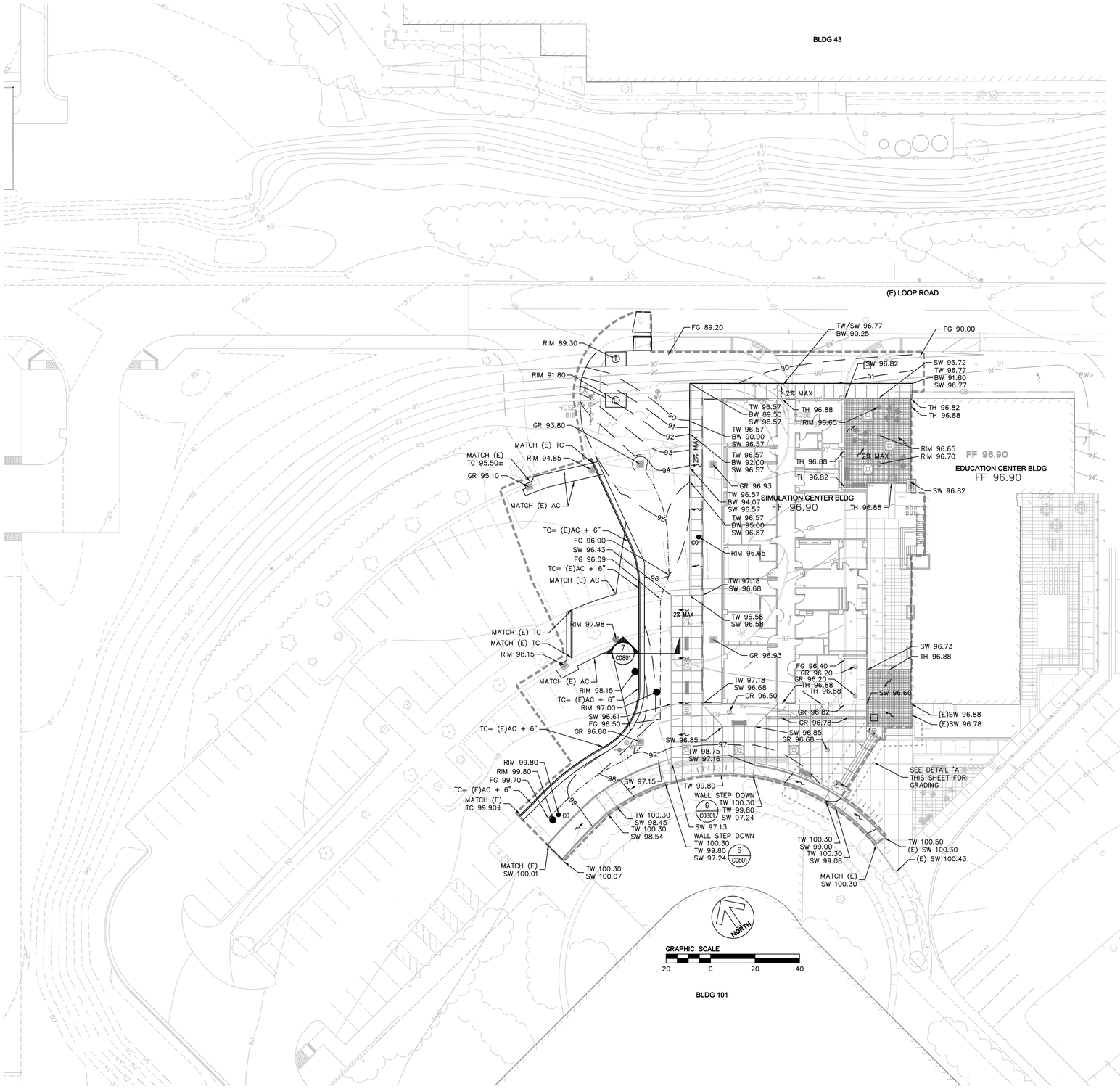
VA Project Number: 640-385

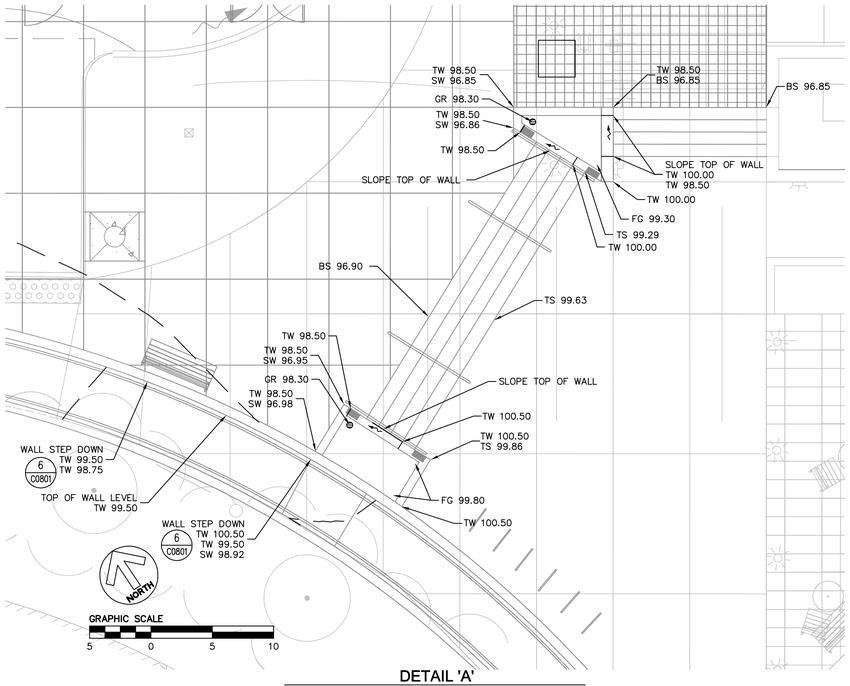
Building Number: 105

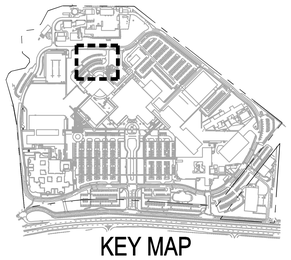
Drawing No. C0301

VA PAHCS Veterans Affairs Palo Alto Health Care System

Department of Veterans Affairs







KEY MAP

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Drawing Title: GRADING PLAN

Approved: Project Director

Project Title: VA SIMULATION CENTER

Location: Veterans Affairs Palo Alto Heath Care System, 3801 Miranda Ave,Palo Alto, CA 94301

Date: JUNE 14, 2013 | Checked: AH | Drawn: JS/AH

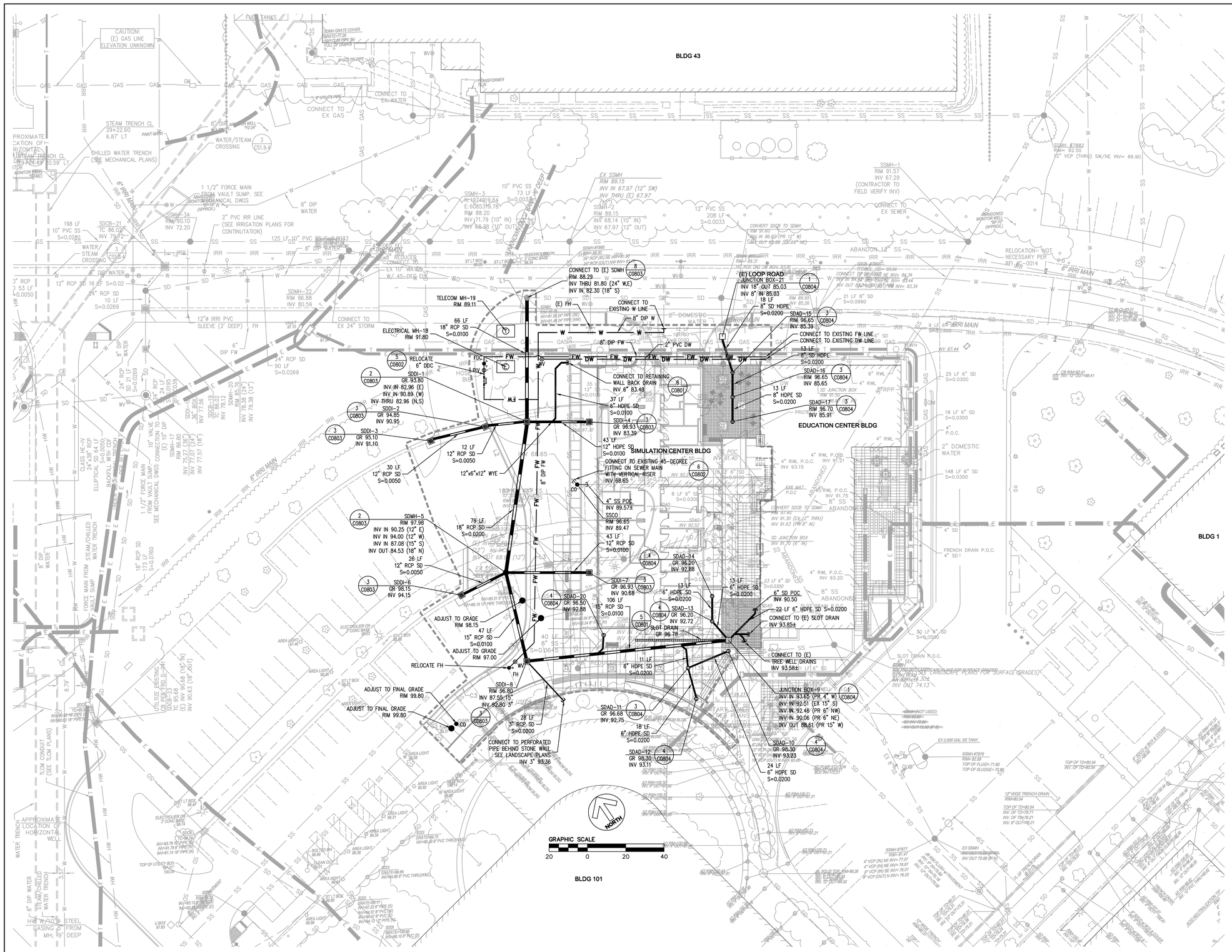
VA Project Number: 640-385

Building Number: 105

Drawing No. C0401

VA PAHCS Veterans Affairs Palo Alto Health Care System

Department of Veterans Affairs



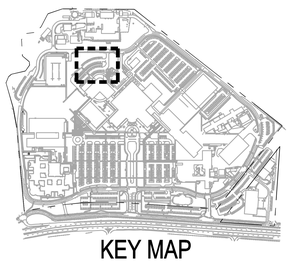
UTILITY NOTES

1. PRIOR TO DEMOLITION AND CONSTRICTION OF UTILITIES, THE CONTRACTOR SHALL POTHOLE THE EXISTING UTILITIES AND IDENTIFY THE LOCATION AND ELEVATION OF THESE UTILITIES. A SUMMARY REPORT OF THESE FINDINGS SHALL BE PROVIDED TO THE CONTRACTING OFFICER'S REPRESENTATIVE.
2. PRIOR TO CONSTRUCTION OF NEW UTILITIES, THE CONTRACTOR SHALL UTILIZE THE SERVICES OF A LICENSED LAND SURVEYOR TO VERIFY UTILITY INVERTS AT TIE-IN LOCATIONS. PROVIDE A CERTIFICATION REPORT TO THE CONTRACTING OFFICER'S REPRESENTATIVE.

STRUCTURE #	NORTHING	EASTING	DESCRIPTION	DETAIL
1	1974813.37	6085309.17	SDDI	3 / C0803
2	1974823.37	6085289.70	SDDI	3 / C0803
3	1974833.06	6085262.00	SDDI	3 / C0803
4	1974795.16	6085336.14	SDDI	3 / C0803
5	1974754.24	6085256.09	SDMH	2 / C0803
6	1974757.47	6085230.28	SDDI	3 / C0803
7	1974729.93	6085292.11	SDDI	3 / C0803
8	1974709.85	6085239.29	SDDI	3 / C0803
9	1974660.10	6085332.60	JUNC. BOX	1 / C0804
10	1974656.93	6085328.08	SDAD	4 / C0804
11	1974659.89	6085307.02	SDAD	3 / C0804
12	1974644.78	6085301.90	SDAD	4 / C0804
13	1974673.06	6085331.07	SDAD	4 / C0804
14	1974683.91	6085338.39	SDAD	4 / C0804
15	1974774.66	6085412.47	SDAD	3 / C0804
16	1974764.04	6085405.31	SDAD	3 / C0804
17	1974753.42	6085398.14	SDAD	3 / C0804
18	1974843.39	6085316.07	ELECTRICAL MH	SEE ELECTRICAL PLANS
19	1974858.78	6085326.46	TELECOM MH	SEE TELECOM PLANS
20	1974698.68	6085280.08	SDAD	3 / C0804
21	1974793.17	6085418.53	JUNC. BOX	1 / C0804

1 — STRUCTURE SCHEDULE

NOT TO SCALE



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Drawing Title: UTILITY PLAN

Approved: Project Director

Project Title: VA SIMULATION CENTER

Location: Veterans Affairs Palo Alto Heath Care System, 3801 Miranda Ave,Palo Alto, CA 94301

Date: JUNE 14, 2013 | Checked: AH | Drawn: JS/AH

VA Project Number: 640-385

Building Number: 105

Drawing No. C0501

VA PAHCS Veterans Affairs Palo Alto Health Care System

Department of Veterans Affairs

BLDG 43

TEMPORARY CONSTRUCTION FENCE

STOCKPILE AREA

(E) LOOP ROAD

TEMPORARY CONSTRUCTION FENCE

1 C0805

SILT FENCE

5 C0804

FIBER ROLL (TYP)

STORM DRAIN INLET PROTECTION (TYP)

FF 96.90

EDUCATION CENTER BLDG

SIMULATION CENTER BLDG

STABILIZED CONSTRUCTION ENTRANCE

2% MAX

BLDG 103

TEMPORARY CONSTRUCTION FENCE

STAGING AREA

NORTH

GRAPHIC SCALE

20 0 20 40

BLDG 101

KEY MAP

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Vancouver ■ Victoria ■ Washington DC

Drawing Title
EROSION CONTROL PLAN

Approved: Project Director

Project Title
VA SIMULATION CENTER

Location: Veterans Affairs Palo Alto Heath Care System, 3801 Miranda Ave,Palo Alto, CA 94301

Date: JUNE 14, 2013 | Checked: AH | Drawn: JS/AH

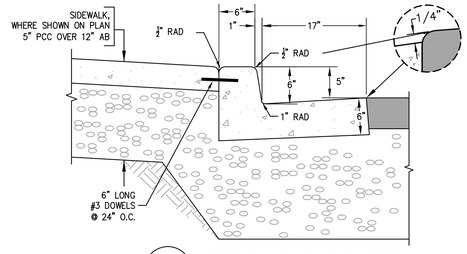
VA Project Number: 640-385

Building Number: 105

Drawing No. C0601

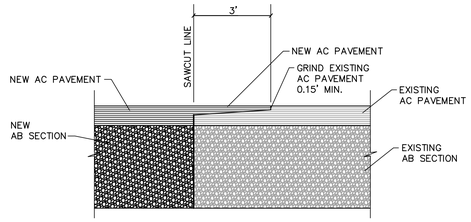
VA PAHCS Veterans Affairs Palo Alto Health Care System

Department of Veterans Affairs



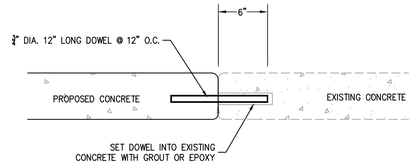
1 — VERTICAL CURB & GUTTER

NOT TO SCALE



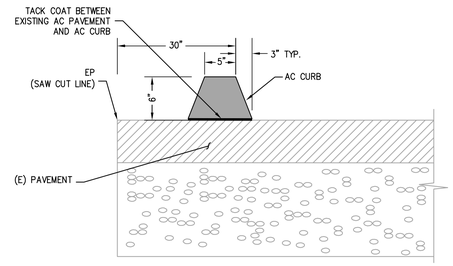
2 — PAVEMENT CONFORM

NOT TO SCALE



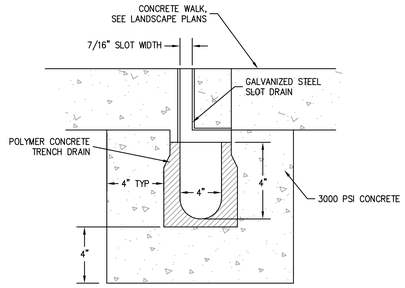
3 — SIDEWALK CONNECTION TO EXISTING SIDEWALKS

NOT TO SCALE



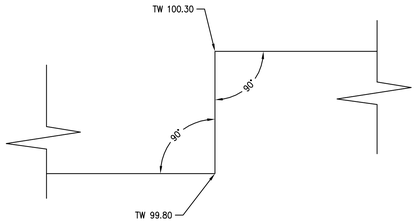
4 — 6" CURB ON TOP OF EXISTING PAVEMENT

NOT TO SCALE



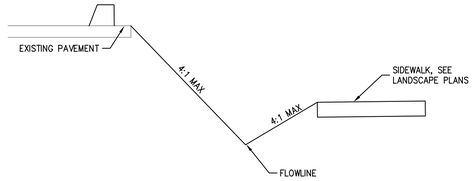
5 — SLOT DRAIN

NOT TO SCALE



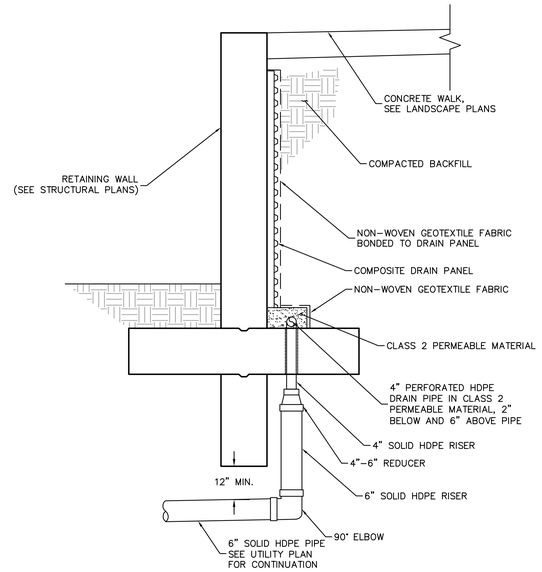
6 — WALL STEP DOWN

NOT TO SCALE



7 — CROSS SECTION

NOT TO SCALE



8 — RETAINING WALL BACK DRAIN

NOT TO SCALE

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Drawing Title: DETAILS

Approved: Project Director

Project Title: VA SIMULATION CENTER

Location: Veterans Affairs Palo Alto Heath Care System, 3801 Miranda Ave,Palo Alto, CA 94301

Date: JUNE 14, 2013 | Checked: AH | Drawn: JS/AH

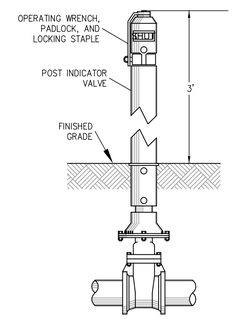
VA Project Number: 640-385

Building Number: 105

Drawing No. C0801

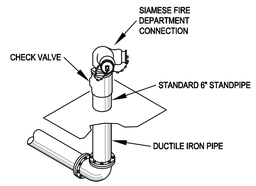
VA PAHCS Veterans Affairs Palo Alto Health Care System

Department of Veterans Affairs



4 — POST INDICATOR VALVE

NOT TO SCALE



NOTES:

1. CHECK VALVE SHALL BE 6" MALE NPT x 6" FEMALE NPT.
2. CHECK VALVE 6" MPT SCREWS INTO 6" FPT OF FDC.
3. 6" STANDPIPE SCREWS INTO 6" FPT OF CHECK VALVE.

3 — FIRE DEPARTMENT CONNECTION

NOT TO SCALE

MINIMUM LENGTH OF PIPE (IN FEET) REQUIRED TO BE RESTRAINED ON EACH SIDE OF A VALVE OR FITTING

PIPE TYPE	PIPE SIZE	90° BEND	45° BEND	≤22.5° BEND	TEE OR CROSS [c]	VERTICAL OFFSET [a]		REDUCER [b]	VALVE OR DEAD END
						LOW	HIGH		
PVC	≤4	18	18	18	29	18	19	18	30
DIP	4	18	18	18	18	18	18	18	18
DIP	6	18	18	18	23	18	18	18	23
DIP	8	19	18	18	31	18	19	25	31
DIP	10	23	18	18	37	18	22	32	37
DIP	12	27	18	18	44	18	26	40	44

PIPE THRUST RESTRAINTS: MECHANICAL RESTRAINTS SHALL BE INSTALLED AS REQUIRED TO PROPERLY RESTRAIN ALL PIPING SYSTEMS. AT A MINIMUM, RESTRAINERS SHALL BE PROVIDED ON ALL BELOW-GRADE VALVES AND FITTINGS AND AT THE REQUIRED NUMBER OF PIPE JOINTS IN EACH DIRECTION. REQUIRED LENGTHS OF RESTRAINED PIPE SHALL BE AS SHOWN IN PIPE RESTRAINT SCHEDULES ABOVE.

BASIS OF SCHEDULES

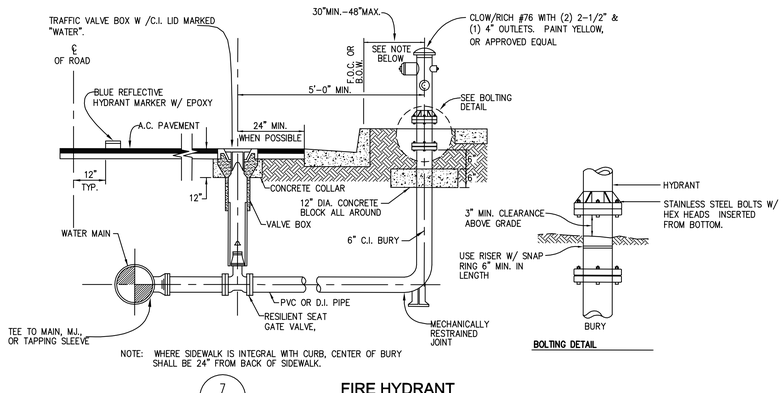
1. TEST PRESSURE 150 PSIG
2. MINIMUM PIPE DEPTH 3 FEET
3. TYPE 4 TRENCH (4" GRANULAR BEDDING)
4. FACTOR OF SAFETY = 1.5
5. SOIL TYPE = CL (CLAY)

A. "LOW" REPRESENTS THE MINIMUM LENGTH OF PIPE (IN FEET) REQUIRED TO BE RESTRAINED ON THE LOW SIDE OF THE VERTICAL OFFSET, WHICH IS TYPICALLY DOWNSTREAM OF THE OFFSET FITTING. "HIGH" REPRESENTS THE MINIMUM LENGTH OF PIPE (IN FEET) REQUIRED TO BE RESTRAINED ON THE HIGH SIDE OF THE VERTICAL OFFSET, WHICH IS TYPICALLY UPSTREAM OF THE OFFSET FITTING. REQUIRED RESTRAINED LENGTHS ASSUME AN OFFSET ANGLE OF 45 DEGREES.

B. DISTANCE REPRESENTS THE LINEAR FEET OF LARGE DIAMETER PIPE UPSTREAM OF THE REDUCER REQUIRED TO BE RESTRAINED. RESTRAIN SMALL DIAMETER PIPE AT REDUCER AT A MINIMUM. IF THERE IS AN UNOBSTRUCTED RUN DOWNSTREAM OF THE REDUCER (I.E. SMALL DIAMETER PIPE) OF AT LEAST 2.5 TIMES THE REQUIRED LENGTH OF LARGE DIAMETER PIPE TO BE RESTRAINED, THEN RESTRAINT IS REQUIRED ONLY AT THE REDUCER FITTING. IF SMALL END OF REDUCER IS MORE THAN THREE PIPE SIZES SMALLER THAN LARGE END, CONSULT ENGINEER FOR REQUIRED LENGTH TO BE RESTRAINED.

C. RESTRAINED LENGTH SHOWN FOR TEES AND CROSSES APPLIES TO THE SIDE BRANCH LINE WHEN THE STRAIGHT LINE IS UNRESTRAINED. THE LENGTHS SHOWN HERE ALSO ASSUME THAT THE SIZE OF THE BRANCH LINE IS LESS THAN OR EQUAL TO THE SIZE OF

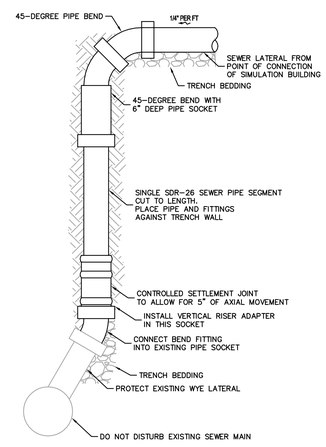
2 — MECHANICAL RESTRAINT SCHEDULE



NOTE: WHERE SIDEWALK IS INTEGRAL WITH CURB, CENTER OF BURY SHALL BE 24" FROM BACK OF SIDEWALK.

7 — FIRE HYDRANT

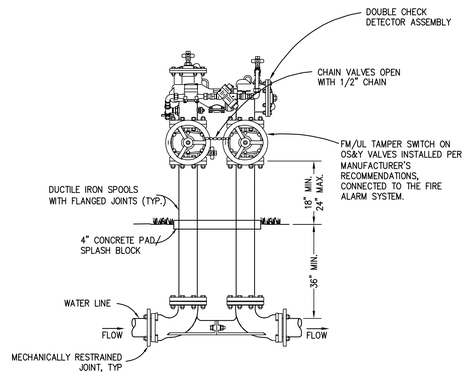
NOT TO SCALE



NOTE: ALL PIPE AND FITTINGS SHALL BE SDR-26.

6 — SEWER SERVICE VERTICAL RISER

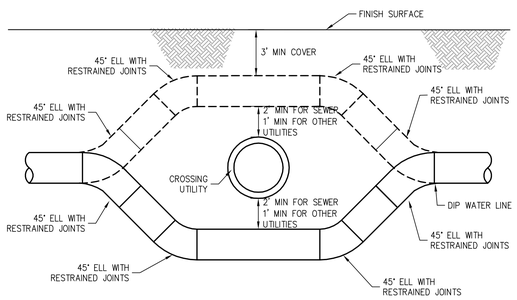
NOT TO SCALE



NOTE: MAINTAIN 18" MINIMUM CLEARANCE BETWEEN SIDES OF BACKFLOW PREVENTER AND ADJACENT STRUCTURES OR LANDSCAPING.

5 — DOUBLE DETECTOR CHECK BACKFLOW PREVENTER

NOT TO SCALE



8 — WATER LINE VERTICAL CROSSING

NOT TO SCALE

ISSUE FOR BID

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Drawing Title: DETAILS

Approved: Project Director

Project Title: VA SIMULATION CENTER

Location: Veterans Affairs Palo Alto Heath Care System, 3801 Miranda Ave,Palo Alto, CA 94301

Date: JUNE 14, 2013 | Checked: AH | Drawn: JS/AH

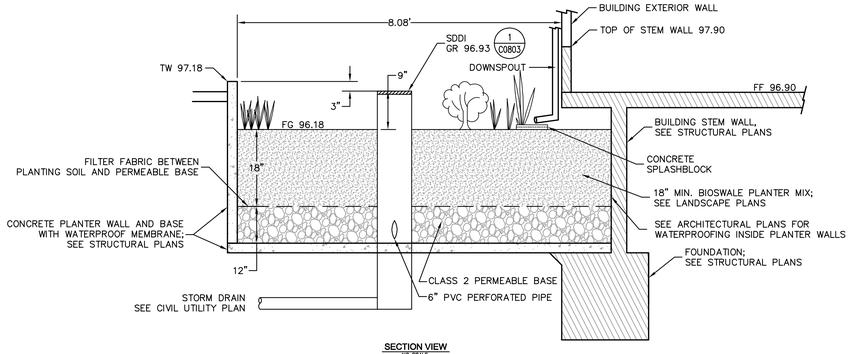
VA Project Number: 640-385

Building Number: 105

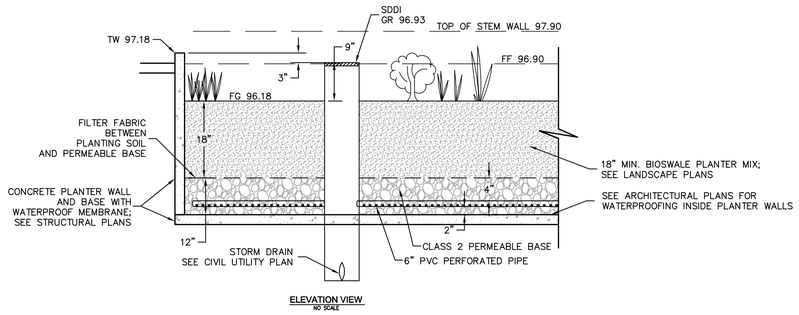
Drawing No. C0802

VA PAHCS Veterans Affairs Palo Alto Health Care System

Department of Veterans Affairs



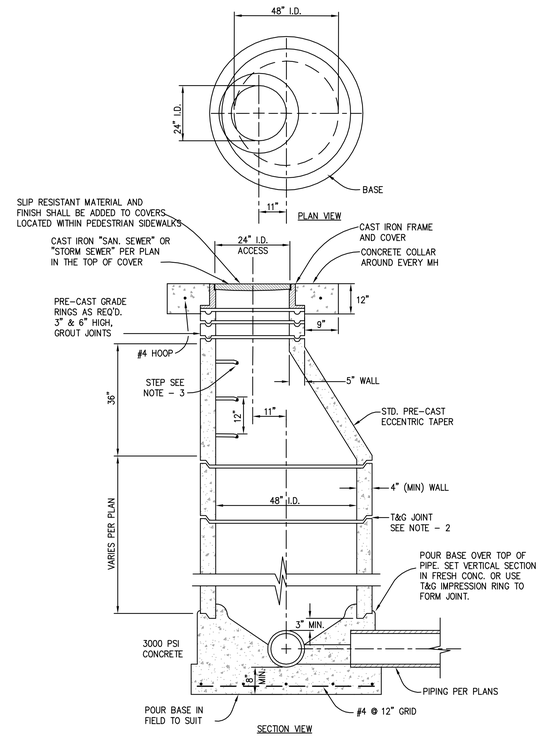
SECTION VIEW
NO SCALE



ELEVATION VIEW
NO SCALE

3 — FLOW-THROUGH PLANTER

NOT TO SCALE

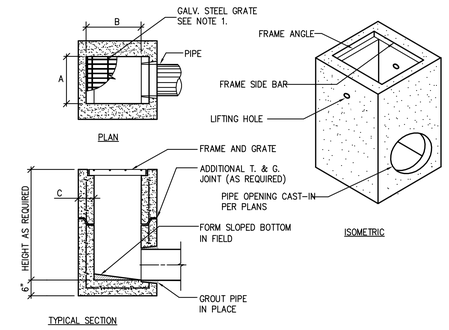


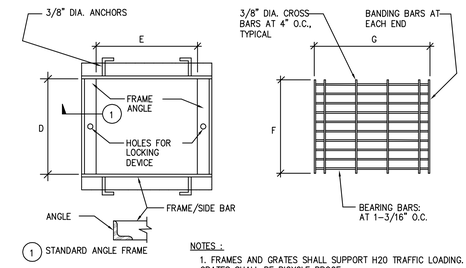
NOTES:

1. PRE-CAST MANHOLE MATERIAL SHALL BE MANUFACTURED TO ASTM SPECIFICATION C478.
2. GROUT JOINTS WITH MORTAR OR USE FLEXIBLE SEALING COMPOUND.
3. USE POLYPROPYLENE COATED STEPS, #4 DEFORMED REBAR. STEPS ARE SPACED 12" O.C. VERTICALLY AND 6" FROM JOINTS. SEE SPECIFICATIONS.
4. MANHOLE SHALL BE SET TO GRADE SUBSEQUENT TO PLACING AC OR PCC.

2 — STORM DRAIN MANHOLE

NOT TO SCALE





NOTES :

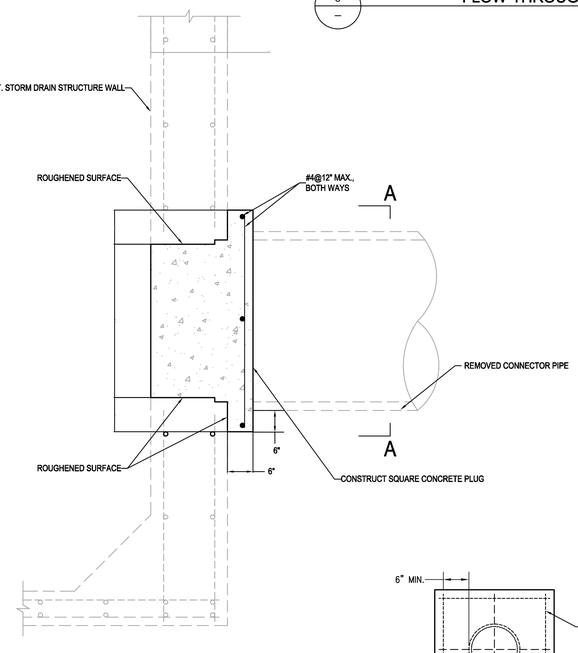
1. FRAMES AND GRATES SHALL SUPPORT H20 TRAFFIC LOADING. ALL GRATES SHALL BE BICYCLE PROOF.

2. FRAME AND GRATES ARE HOT-DIPPED GALVANIZED AFTER FABRICATION PER ASTM SPEC. A-123.

STRUCTURE	A	B	C	D	E	F	G
SDDI	18"	18"	5"	18⅜"	18⅜ "	18⅛"	20⅝"

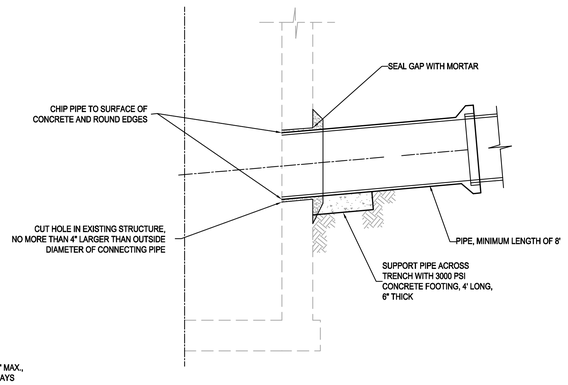
1 — STORM DRAIN DROP INLET

NOT TO SCALE



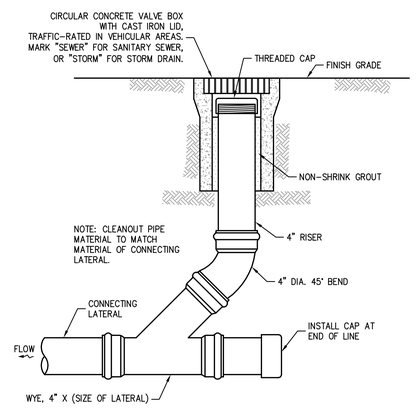
9 — ABANDONMENT SEAL FOR SDCI/SDMH/SDDI

NOT TO SCALE



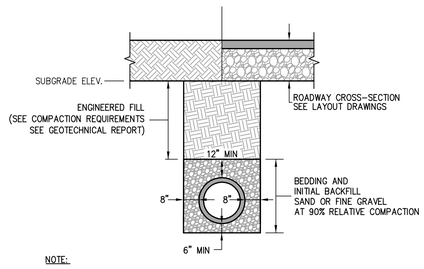
8 — PIPE CONNECTION TO EXISTING SDDI/SDMH

NOT TO SCALE



7 — CLEANOUT

NOT TO SCALE



NOTE:

1. TRENCH DETAIL FOR STORM DRAIN, SANITARY SEWER, DOMESTIC WATER, & FIRE WATER ONLY.

2. IMPORTED OR ONSITE SELECT FILL MATERIAL SHALL HAVE THE FOLLOWING PROPERTIES:

- CONTAIN LESS THAN 3% OF ORGANIC MATERIAL
- SHALL BE FREE OF HAZARDOUS MATERIAL
- CONTAIN NO ROCKS GREATER THAN 4 INCHES IN ITS LARGEST DIMENSION AND CONTAIN NO MORE THAN 15% LARGER THAN 2.5 INCHES
- LIQUID LIMIT LESS THAN 40
- PLASTICITY INDEX LESS THAN 12
- IMPORTED FILL SHALL BE 'NON-EXPANSIVE'
- APPROVED BY THE GEOTECHNICAL ENGINEER

3. WHERE UTILITY TRENCHES BACKFILLED WITH SAND ENTER THE BUILDING PAD, THE TRENCHES SHOULD BE BACKFILLED BY AN IMPERMEABLE PLUG AT THE EXTERIOR WALL FOUNDATION. THE PLUGS CAN BE COMPOSED OF COMPACTED CLAYEY SOIL, COMPACTED BENTONITE, OR A BENTONITE-CEMENT OR SAND-CEMENT SLURRY MIXTURE. THE PLUGS SHOULD BE AT LEAST 2 FEET THICK AND SHOULD EXTEND AT LEAST 2 FEET BEYOND THE EDGES AND BOTTOM OF THE TRENCH TO 'KEY IN' THE PLUG. THE PLUG SHOULD ALSO EXTEND TO WITHIN 1 FOOT OF THE LOWEST ADJACENT GRADE.

6 — TRENCH BACKFILL DETAIL

NOT TO SCALE

ISSUE FOR BID

Revisions	Date
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Vancouver ■ Victoria ■ Washington DC

Drawing Title: DETAILS

Approved: Project Director

Project Title: VA SIMULATION CENTER

Location: Veterans Affairs Palo Alto Heath Care System, 3801 Miranda Ave,Palo Alto, CA 94301

Date: JUNE 14, 2013 | Checked: AH | Drawn: JS/AH

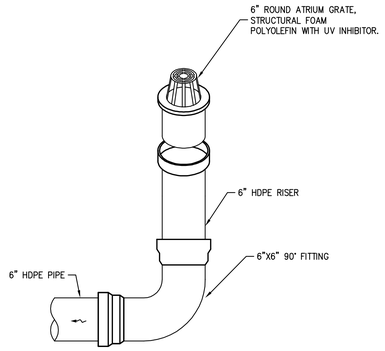
VA Project Number: 640-385

Building Number: 105

Drawing No. C0803

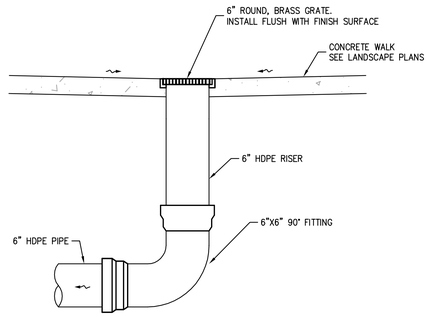
VA PAHCS Veterans Affairs Palo Alto Health Care System

Department of Veterans Affairs



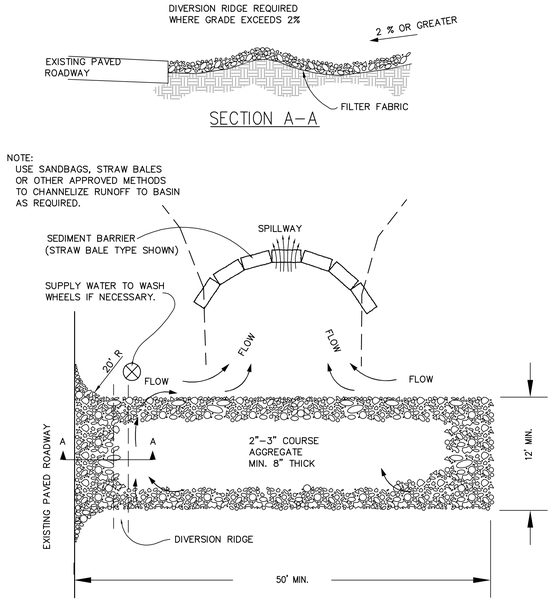
4 — STORM DRAIN AREA DRAIN WITH ATRIUM GRATE

NOT TO SCALE



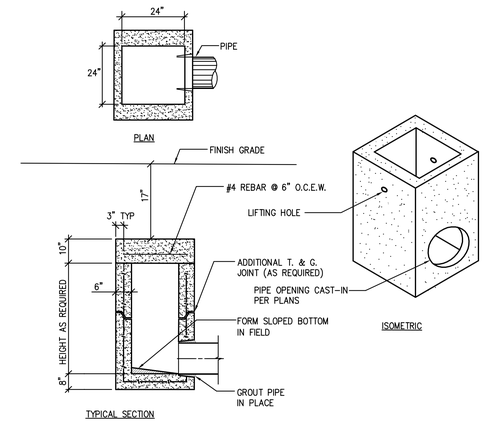
3 — STORM DRAIN AREA DRAIN

NOT TO SCALE

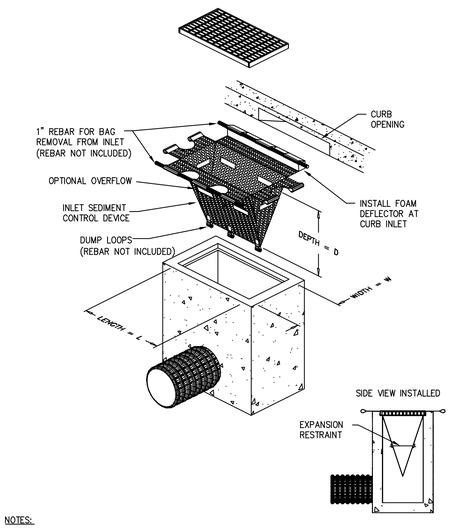


2 — STABILIZED CONSTRUCTION ENTRANCE

NOT TO SCALE



1 — JUNCTION BOX



NOTES:

1. STORM DRAIN INLET PROTECTION DEVICES SHALL BE REMOVED ONCE CONSTRUCTION IS COMPLETE.

THE INLET SEDIMENT CONTROL DEVICE WILL BE MANUFACTURED FROM A WOVEN POLYPROPYLENE FABRIC THAT MEETS OR EXCEEDS THE FOLLOWING SPECIFICATIONS:

REGULAR FLOW

(FOR AREAS OF LOW TO MODERATE PRECIPITATION AND RUN-OFF)

PROPERTIES	TEST METHOD	UNITS
GRAB TENSILE STRENGTH	ASTM D-4632	300 LBS
GRAB TENSILE ELONGATION	ASTM D-4632	20 %
PUNCTURE	ASTM D-4833	120 LBS
MULLEN BURST	ASTM D-3786	800 PSI
TRAPEZOID TEAR	ASTM D-4533	120 LBS
UV RESISTANCE	ASTM D-4355	80 %
APPARENT OPENING SIZE	ASTM D-4751	40 US SIEVE
FLOW RATE	ASTM D-4491	40 GAL/MIN/SQ FT
PERMITTIVITY	ASTM D-4491	0.55 SEC $^{-1}$

HIGH FLOW

(FOR AREAS OF MODERATE TO HEAVY PRECIPITATION AND RUN-OFF)

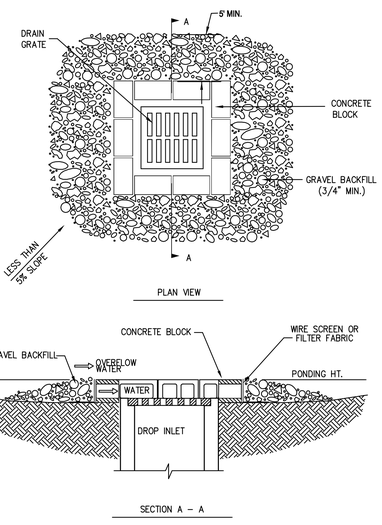
PROPERTIES	TEST METHOD	UNITS
GRAB TENSILE STRENGTH	ASTM D-4632	265 LBS
GRAB TENSILE ELONGATION	ASTM D-4632	20 %
PUNCTURE	ASTM D-4833	135 LBS
MULLEN BURST	ASTM D-3786	420 PSI
TRAPEZOID TEAR	ASTM D-4533	45 LBS
UV RESISTANCE	ASTM D-4355	90 %
APPARENT OPENING SIZE	ASTM D-4751	20 US SIEVE
FLOW RATE	ASTM D-4491	200 GAL/MIN/SQ FT
PERMITTIVITY	ASTM D-4491	1.5 SEC $^{-1}$

NOTE:

1. STORM DRAIN INLET PROTECTION DEVICES SHALL BE REMOVED ONCE CONSTRUCTION IS COMPLETE.

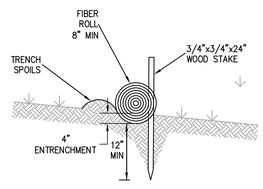
5 — STORM DRAIN INLET PROTECTION

NOT TO SCALE

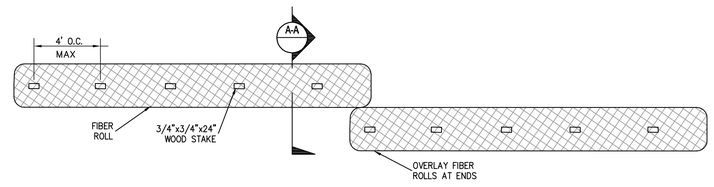


NOTES:

1. DROP INLET SEDIMENT BARRIERS ARE TO BE USED FOR SMALL, NEARLY LEVEL DRAINAGE AREAS. (LESS THAN 5%)
2. EXCAVATE A BASIN OF SUFFICIENT SIZE ADJACENT TO THE DROP INLET.
3. THE TOP OF THE STRUCTURE (PONDING HEIGHT) MUST BE WELL BELOW THE GROUND ELEVATION DOWNSLOPE TO PREVENT RUNOFF FROM BY–PASSING THE INLET. A TEMPORARY DIKE MAY BE NECESSARY ON THE DOWNSLOPE SIDE OF THE STRUCTURE.



SECTION VIEW A–A



PLAN VIEW

NOTES:

1. INSTALL FIBER ROLLS ALONG A LEVEL CONTOUR.
2. ON 2:1 SLOPES, FIBER ROLLS SHALL BE PLACED ON 10' SPACINGS.
3. ON 4:1 SLOPES OR SHALLOWER, FIBER ROLLS SHALL BE PLACED ON 20' SPACINGS.

6 — FIBER ROLL

NOT TO SCALE

ISSUE FOR BID

Revisions	Date
9	
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Drawing Title: DETAILS

Approved: Project Director

Project Title: VA SIMULATION CENTER

Location: Veterans Affairs Palo Alto Heath Care System, 3801 Miranda Ave,Palo Alto, CA 94301

Date: JUNE 14, 2013 | Checked: AH | Drawn: JS/AH

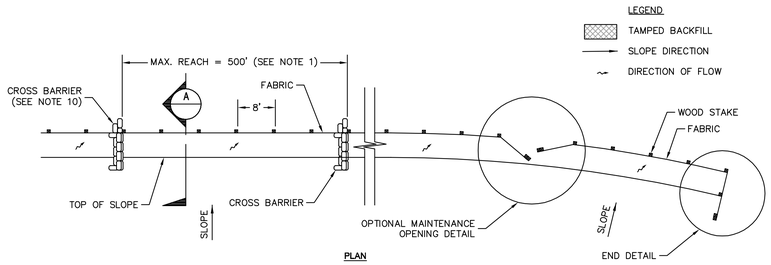
VA Project Number: 640-385

Building Number: 105

Drawing No. C0804

VA PAHCS Veterans Affairs Palo Alto Health Care System

Department of Veterans Affairs

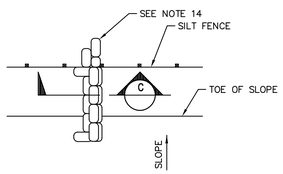


PLAN

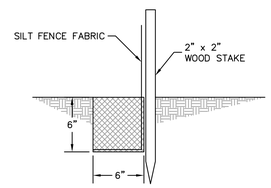
SILT FENCE

NOTES:

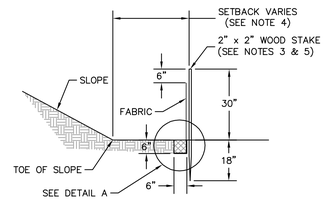
1. CONSTRUCT THE LENGTH OF EACH REACH SO THAT THE CHANGE IN BASE ELEVATION ALONG THE REACH DOES NOT EXCEED 1/3 THE HEIGHT OF THE LINEAR BARRIER, IN NO CASE SHALL THE REACH LENGTH EXCEED 500'.
2. THE LAST 8'–0" OF FENCE SHALL BE TURNED UP SLOPE.
3. STAKE DIMENSIONS ARE NOMINAL.
4. DIMENSION MAY VARY TO FIT FIELD CONDITION.
5. STAKES SHALL BE SPACED AT 8'–0" MAXIMUM AND SHALL BE POSITIONED ON DOWNSTREAM SIDE OF FENCE.
6. STAKES TO OVERLAP AND FENCE FABRIC TO FOLD AROUND EACH STAKE ONE FULL TURN. SECURE FABRIC TO STAKE WITH 4 STAPLES.
7. STAKES SHALL BE DRIVEN TIGHTLY TOGETHER TO PREVENT POTENTIAL FLOW–THROUGH OF SEDIMENT AT JOINT. THE TOPS OF THE STAKES SHALL BE SECURED WITH WIRE.
8. FOR END STAKE, FENCE FABRIC SHALL BE FOLDED AROUND TWO STAKES ONE FULL TURN AND SECURED WITH 4 STAPLES.
9. MINIMUM 4 STAPLES PER STAKE. DIMENSIONS SHOWN ARE TYPICAL.
10. CROSS BARRIERS SHALL BE A MINIMUM OF 1/3 AND A MAXIMUM OF 1/2 THE HEIGHT OF THE LINEAR BARRIER.
11. MAINTENANCE OPENINGS SHALL BE CONSTRUCTED IN A MANNER TO ENSURE SEDIMENT REMAINS BEHIND SILT FENCE.
12. JOINING SECTIONS SHALL NOT BE PLACED AT SUMP LOCATIONS.
13. SANDBAG ROWS AND LAYERS SHALL BE OFFSET TO ELIMINATE GAPS.
14. ADD 3–4 BAGS TO CROSS BARRIER ON DOWNGRADIENT SIDE OF SILT FENCE AS NEEDED TO PREVENT BY PASS OF UNDERMINING AND AS ALLOWABLE BASED ON SITE LIMITS OF DISTURBANCE.



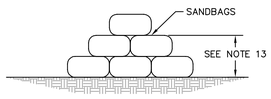
CROSS BARRIER DETAIL



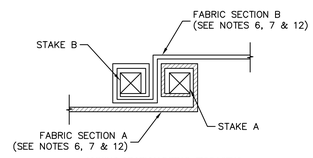
DETAIL A



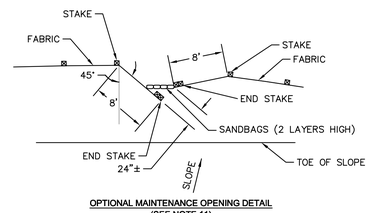
SECTION A-A



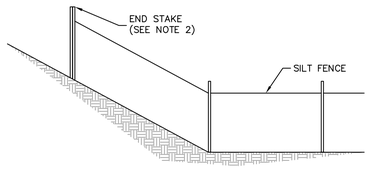
SECTION C-C



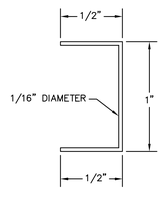
JOINING SECTION DETAIL (TOP VIEW)



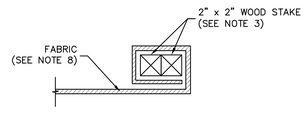
OPTIONAL MAINTENANCE OPENING DETAIL
(SEE NOTE 11)



END DETAIL



STAPLE DETAIL
(SEE NOTE 9)



END STAKE DETAIL (TOP VIEW)

1 — SILT FENCE

NOT TO SCALE

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Drawing Title: DETAILS

Approved: Project Director

Project Title: VA SIMULATION CENTER

Location: Veterans Affairs Palo Alto Heath Care System, 3801 Miranda Ave,Palo Alto, CA 94301

Date: JUNE 14, 2013 | Checked: AH | Drawn: JS/AH

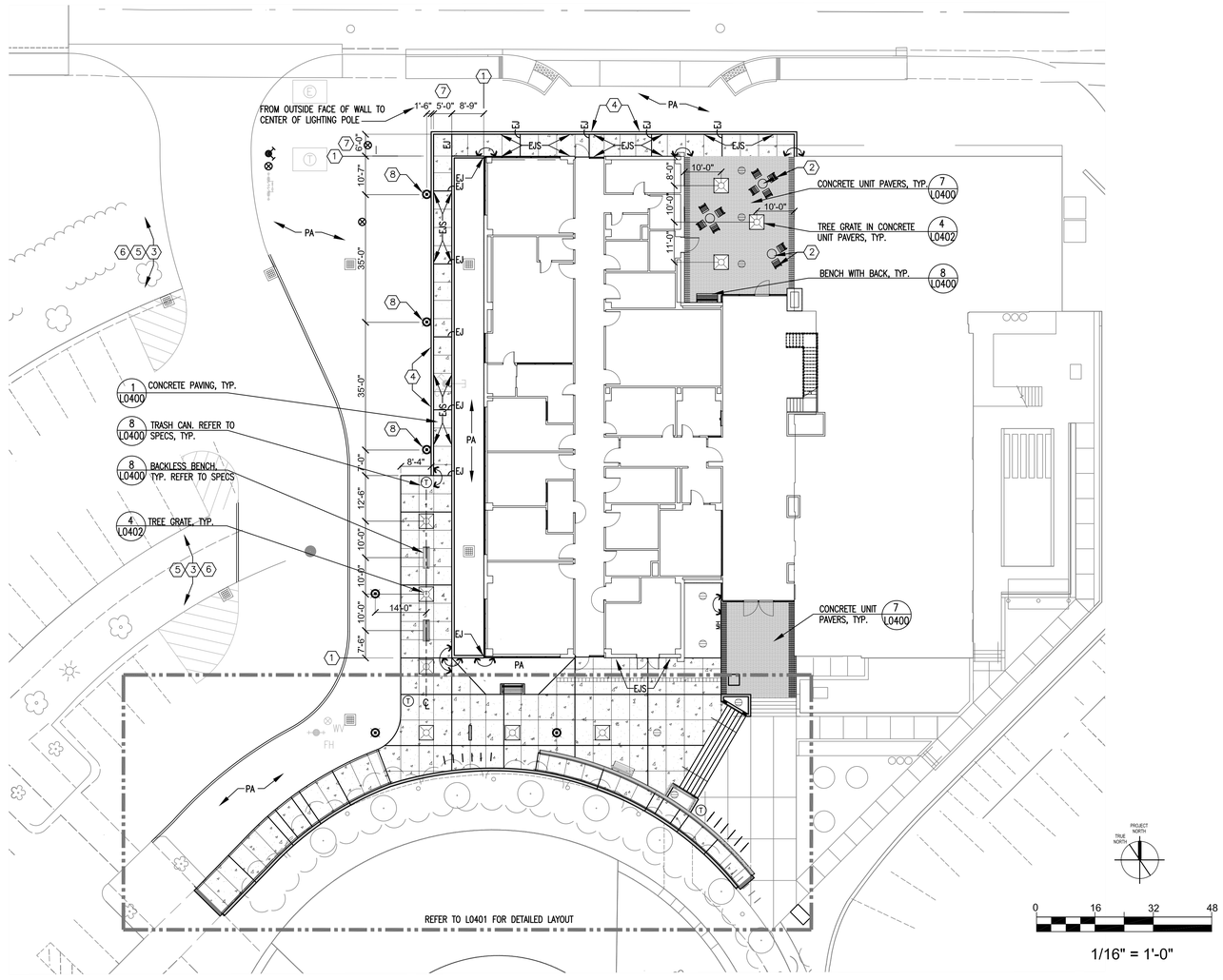
VA Project Number: 640-385

Building Number: 105

Drawing No. C0805

VA PAHCS Veterans Affairs Palo Alto Health Care System

Department of Veterans Affairs



KEYED NOTES – THIS SHEET ONLY

1. FACE OF BUILDING
2. MOVEABLE CAFE TABLE AND CHAIRS – SEE SPECS
3. EXISTING PLANTING TO REMAIN.
4. RETAINING WALL REFER TO STRUCTURAL ENGINEERING PLANS.
5. EXISTING CRUSHED GRAVEL TO REMAIN.
6. REPAIR AND REPLACE PLANTING AND CRUSHED GRAVEL PAVING DAMAGED BY CONSTRUCTION ACTIVITIES.
7. CLEAR DISTANCE BETWEEN WALLS
8. LIGHT POLE FOUNDATION AND RETAINING WALL TO BE CAST INTEGRALLY, WHERE CONFLICTS IN PLAN OCCUR

LAYOUT LEGEND SHEETS L0100 AND L0401

SYMBOL	DESCRIPTION	
	ENHANCED CONCRETE PAVING PEDESTRIAN SECTION W/INTEGRAL COLOR; DAVIS COLOR PEBBLE WITH SANDBLAST FINISH	1 L0400
EJS	EXPANSION JOINT SCORE LINE EXPANSION JOINT W/ SEALANT	2 L0400
	CONCRETE UNIT PAVERS	7 L0400
	CONCRETE STEPS W/INTEGRAL DAVIS COLOR PEBBLE WITH SANDBLAST FINISH	6 L0400
	METAL TREE GRATE	4 L0402
	BIKE RACKS	5 L0400
MH	ALUMINUM METAL HEADER	3 L0402
T	TRASH RECEPTACLE, SURFACE MOUNT, SEE SPECS.	8 L0400
	BENCH WITH BACK, SURFACE MOUNT, SEE SPECS. BACKLESS BENCH, SURFACE MOUNT SEE SPECS.	8 L0400

℄	ALIGN
℄	CENTERLINE
EQ	EQUAL
EX.	EXISTING
PA	PLANTING AREA
R	RADIUS
TYP	TYPICAL

- POLE MOUNTED AREA LIGHT, REFER TO ELEC. PLANS
- EMBEDDED LIGHT FIXTURE, REFER TO ELEC. PLANS
- FIRE HYDRANT AND PIV – SEE CIVIL DRAWINGS FOR LOCATION AND DETAILS
- AREA DRAIN – SEE CIVIL DRAWINGS FOR LOCATION AND DETAILS
- CATCH BASIN – SEE CIVIL DRAWINGS FOR LOCATION AND DETAILS

GENERAL LAYOUT NOTES

A. VERIFY AND MARK UNDERGROUND FACILITIES PRIOR TO START OF WORK. CALL UNDERGROUND SERVICE ALERT MINIMUM TWO DAYS PRIOR TO DIGGING: 1–800–227–2600, BETWEEN 6:00 AM – 7:00 PM, MONDAY – FRIDAY, EXCEPT HOLIDAYS.

B. REFER TO CIVIL ENGINEERING PLANS FOR PROPOSED UTILITIES.

C. STAKE LOCATION OF ALL LANDSCAPE ELEMENTS INCLUDING PAVING, STAIRS, RAMPS, HEADERS, SITE FURNITURE, ETC. FOR APPROVAL BY LANDSCAPE ARCHITECT PRIOR TO CONSTRUCTION.

D. DIMENSIONS ARE TO: EDGE OF PAVING, EDGE OF HEADER, FACE OF CURB OR WALL, CENTERLINE OF LIGHT BASE, BENCH, TREE GRATE, BIKE RACK, TRASH RECEPTACLE, UNLESS OTHERWISE NOTED.

E. INSTALL EXPANSION JOINT WITH DOWEL WHERE CONCRETE PAVING OR CONCRETE HEADER MEETS EXISTING PAVING, CONCRETE WALLS AND RETAINING WALLS. INSTALL EXPANSION JOINT WITH SEALANT AND WITHOUT DOWEL AT ALL BUILDING WALLS, BUILDING FOUNDATIONS, BUILDING THRESHOLDS AND RETAINING WALLS.

F. TRANSITIONS BETWEEN CHANGES IN VERTICAL CURVATURE OF PAVING SHALL BE SMOOTH AND GRADUAL WITH NO SHARP OR ABRUPT CHANGES.

G. LIGHT FIXTURES SHOWN FOR LOCATION ONLY. REFER TO ELECTRICAL ENGINEERING PLANS FOR SITE LIGHTING.

H. REFER TO CIVIL ENGINEERING PLAN FOR DOCUMENTATION OF PARKING FACILITIES INCLUDING CURBS, CURB CUTS, SIGNAGE, AND STRIPING. C0301

GENERAL NOTES

KEY NOTES

LEGEND

ISSUED FOR BID

Revisions	Date
9	
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1/31/15
Renewal Date
STATE OF CALIFORNIA

ARCHITECT/ENGINEERS:

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Vancouver ■ Victoria ■ Washington DC

Drawing Title: LANDSCAPE LAYOUT PLAN

Approved: Project Director: -

Project Title: VA SIMULATION CENTER

Location: Veterans Affairs Palo Alto Heath Care System, 3801 Miranda Ave,Palo Alto, CA 94304

Date: JUNE 14, 2013 | Checked: RA | Drawn: RA/SK

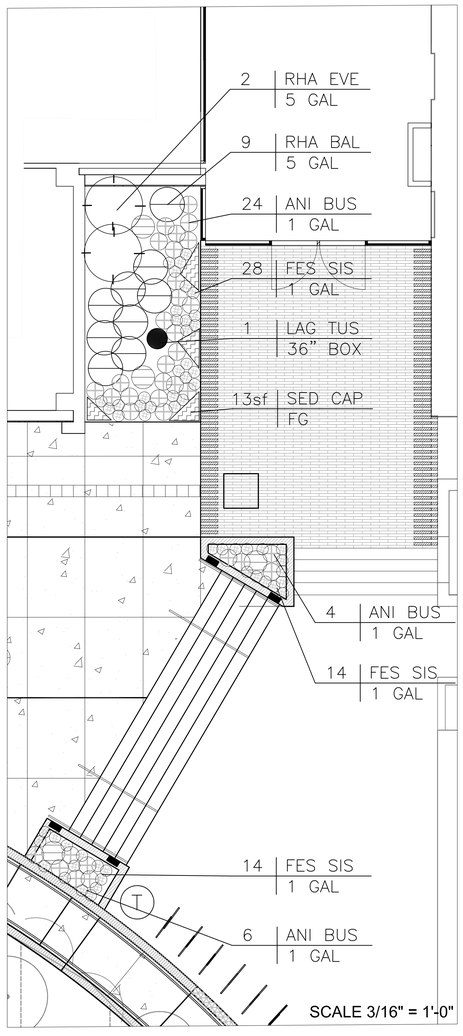
VA Project Number: 640-385

Building Number: 105

Drawing No.: L0100

VA PAHCS Veterans Affairs Palo Alto Health Care System

Department of Veterans Affairs



GENERAL PLANTING NOTES

A. ALL PLANTING SHALL BE DONE IN ACCORDANCE WITH DETAILS ON SHEET L0402 AND PROJECT SPECIFICATIONS WHICH ARE A SEPARATE 8½ X 11 DOCUMENT. IT IS THE RESPONSIBILITY OF THE PLANTING AND IRRIGATION CONTRACTOR(S) TO OBTAIN SPECIFICATIONS IF NOT PROVIDED INITIALLY WITH THESE DRAWINGS.

B. SANDY LOAM IMPORT SOIL ACCORDING TO SPECIFICATION SECTION 32 90 00 IS REQUIRED IN ALL AREAS OF NEW LANDSCAPE PLANTING EXCEPT THE FLOW-THROUGH PLANTER. IMPORT SOIL DEPTH SHALL BE 6" AFTER SETTLEMENT, PLACED OVER SCARIFIED SUBSOIL. SUBMIT IMPORT SOIL SAMPLE AND LAB ANALYSIS PER SPECS. IF IMPORT SOIL DOES NOT MEET MINIMUM SPEC REQUIREMENTS, AMENDMENTS AND FERTILIZERS MAY BE INCORPORATED ACCORDING TO LAB RECOMMENDATIONS, EITHER PRIOR TO DELIVERY OR AFTER PLACEMENT ON SITE.

C. ALL LANDSCAPED AREAS EXCEPT FLOW-THROUGH PLANTER AREAS SHALL RECEIVE A 3" DEEP LAYER OF RECYCLED WOOD MULCH PER SPECIFICATION SECTION 32 90 00. SHREDDED REDWOOD IS NOT ACCEPTABLE. ALL MULCHED AREAS SHALL RECEIVE AN APPLICATION OF PRE-EMERGENT HERBICIDE.

D. ALL ROCK AND DEBRIS 1-1/2 INCHES AND LARGER SHALL BE REMOVED FROM THE TOP 6" OF PLANTING AREAS AND THEN FROM THE SITE.

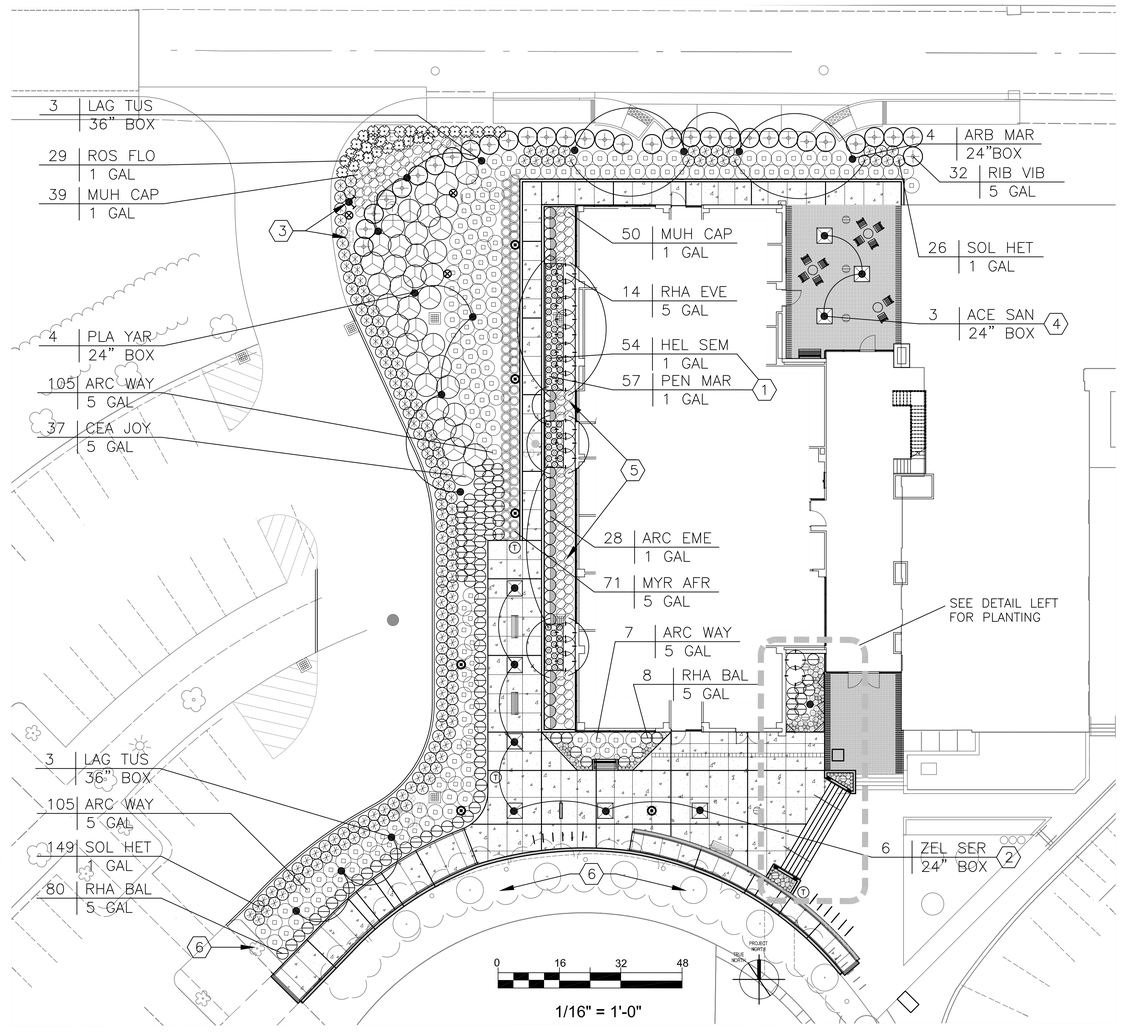
E. INSTALL LINEAR TYPE ROOT BARRIERS ADJACENT TO CURB, WALK, OR PAVING. INSTALL DIRECTLY ADJACENT AND PARALLEL TO PAVEMENT OR CURB TO BE PROTECTED. DO NOT ENCIRCLE ROOTBALL. REFER TO DETAIL 2 ON SHEET L0402. APPLICABILITY: ANY TREE WITHIN 6' OF PAVEMENT OR CURB.

F. FOR THE PURPOSE OF PLANT QUANTITY VERIFICATION, PLANT SYMBOLS TAKE PRECEDENCE OVER CALL OUTS.

G. POST INSTALLATION MAINTENANCE IS INCLUDED IN THIS CONTRACT FOR A MINIMUM PERIOD OF 90 DAYS. MAINTAIN ALL AREAS PER SPECIFICATIONS IN A WEED AND DEBRIS FREE CONDITION. REFER TO SPECIFICATION SECTION 32 90 00 FOR END OF MAINTENANCE PERIOD.

KEYED SHEET NOTES

1. PLANT A MIX OF 50% HEL SEM AND 50% PEN MAR IN BLOCKS WHERE INDICATED. ALTERNATE SPECIES WITHIN EACH ROW.
2. PLANT ZEL SER IN TREE GRATES ACCORDING TO DETAIL 8/L0402
3. FIRE BACKFLOW UNIT AND VALVES REFER TO CIVIL PLANS.
4. PLANT ACE SAN IN TREE GRATES ACCORDING TO DETAIL 8/L0402.
5. FLOW THROUGH PLANTER: FILL WITH BIOSWALE PLANTER SOIL MIX ACCORDING TO CROSS SECTION ON CIVIL ENGINEERING PLANS. REFER TO PLANTING SPECIFICATION FOR SOIL FILL (32 90 00).
6. EXISTING PLANTING TO REMAIN



NOTE

PLANTING, MULCH, AND ROOT BARRIERS ARE EXCLUDED FROM THE BASE SCOPE OF THIS CONTRACT BUT ARE SHOWN FOR REFERENCE ONLY. SANDY LOAM IMPORT SOIL, SUBSOIL PREP AND AMENDMENTS ACCORDING TO GENERAL NOTE "B" SHALL BE INCLUDED IN THE BASE SCOPE OF WORK, BIOSWALE PLANTER SOIL MIX, ACCORDING TO KEY NOTE 5, SHALL BE INCLUDED IN THE BASE SCOPE OF WORK

PLANT HOLE SCHEDULE

TREES	WIDTH	DEPTH
24" BOX	4'-0" SQ.	AS DETAILED
36" BOX	5'-0" SQ.	AS DETAILED
SHRUBS		
1 GALLON	1'-6" ROUND	AS DETAILED
5 GALLON	2'-0" ROUND	AS DETAILED

PLANTING LEGEND

GAL	GALLON
OC	ON CENTER
SF	SQUARE FEET
TYP	TYPICAL
FG	FLAT GROWN

PROPOSED SHRUBS AND GROUNDCOVERS

PROPOSED TREES

PLANT LIST

ABBRV.	BOTANICAL NAME	COMMON NAME	SIZE	HT.	W	Cal.	H2O
TREES							
ACE SAN	ACER PALMATUM 'SANGO KAKU'	JAPANESE MAPLE	24" BOX STD.	9'	3'	1.25"	M
ARB MAR	ARBUTUS x 'MARINA'	NCN	24" BOX STD.	9'	3'	1.25"	L
LAG TUS	LAGERSTROEMIA X 'TUSCARORA'	CRAPE MYRTLE	36" BOX STD.	12'	5'	2.5"	L
PLA YAR	PLATANUS ACERIFOLIA 'YARWOOD'	LONDON PLANE TREE	24" BOX	10'	4'	1.5"	M
ZEL SER	ZELKOVA SERRATA	JAPANESE ZELKOVA	24" BOX	9'	3'	1.25"	M

SHRUBS			SIZE	SPACING	H2O
ARC WAY	ARCTOSTAPHYLOS HOOKERI 'WAYSIDE'	WAYSIDE MANZANITA	5 GAL	4' oc	L
CEA JOY	CEANOTHUS 'JOYCE COULTER'	J. C. WILD LILAC	5 Gal.	6'oc	L
MYR AFR	MYRSINE AFRICANA	AFRICAN BOXWOOD	5 Gal.	2'-6"oc	L
RIB VIB	RIBES VIBURNIFOLIUM	EVERGREEN CURRANT	5 GAL	5' oc	L
RHA BAL	RHAPHIOLEPIS INDICA 'BALLERINA'	BALLERINA INDIA HAWTHORN	5 GAL	3' oc	L
RHA EVE	RHAMNUS CALIFORNICA 'EVE CASE'	CALIFORNIA COFFEEBERRY	5 Gal.	5'oc	L

GROUND COVERS			SIZE	SPACING	H2O
ARC EME	ARCTOSTAPHYLOS 'EMERALD CARPET'	E. C. MANZANITA	1 GAL	3' oc	L
SOL HET	SOLLYA HETEROPHYLLA	AUSTRALIAN BLUEBELL	1 GAL	3' oc	L

GRASSES			SIZE	SPACING	H2O
FES SIS	FESTUCA IDAHOENSIS 'SISKIYOU BLUE'	FESCUE 'SISKIYOU BLUE'	1 GAL	1' oc	VL
HEL SEM	HELICTOTRICHON SEMPERVIRENS	BLUE OAT GRASS	1 GAL.	1'-6" oc	L
MUH CAP	MUHLENBERGIA CAPILLARIS	PINK MUHLY	1 GAL	2'-6" oc	L

ACCENT PLANTS			SIZE	SPACING	H2O
ANI BUS	ANIGOZANTHOS x 'BUSH PEARL'	KANGAROO PAW, PINK	1 GAL	1'-6"oc	L
PEN MAR	PENSTEMON HETER. 'MARGARITA BOP'	BLUE BEDDER PENSTEMON	1 GAL	1'-6"oc	L
ROS FLO	ROSA 'FLORAL CARPET WHITE'	WHITE CARPET ROSE	1 GAL	3' oc	M
SED CAP	SEDUM SPATHULIFOLIUM 'CAPE BLANCO'	SEDUM	FG	9"oc	L

GENERAL NOTES

KEY NOTES

LEGEND

ISSUED FOR BID

Revisions	Date
9	
8	
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Vancouver ■ Victoria ■ Washington DC

Drawing Title: LANDSCAPE PLANTING PLAN

Approved: Project Director: -

Project Title: VA SIMULATION CENTER

Location: Veterans Affairs Palo Alto Heath Care System, 3801 Miranda Ave,Palo Alto, CA 94304

Date: JUNE 14, 2013 | Checked: RA | Drawn: RA/SK

VA Project Number: 640-385

Building Number: 105

Drawing No. L0200

VA PAHCS Veterans Affairs Palo Alto Health Care System

Department of Veterans Affairs

IRRIGATION NOTES

1. THESE IRRIGATION DRAWINGS ARE DIAGRAMMATIC AND INDICATIVE OF THE WORK TO BE INSTALLED. ALL PIPING, VALVES, ETC. SHOWN WITHIN PAVED AREAS IS FOR CLARITY ONLY AND ARE TO BE INSTALLED WITHIN PLANTING AREAS WHERE POSSIBLE. DUE TO THE SCALE OF THE DRAWINGS, IT IS NOT POSSIBLE TO INDICATE ALL OFFSETS, FITTINGS, SLEEVES, ETC., WHICH MAY BE REQUIRED. THE CONTRACTOR IS REQUIRED TO INVESTIGATE THE STRUCTURAL AND FINISHED CONDITIONS AFFECTING ALL OF THE CONTRACT WORK INCLUDING OBSTRUCTIONS, GRADE DIFFERENCES OR AREA DIMENSIONAL DIFFERENCES WHICH MAY NOT HAVE BEEN CONSIDERED IN THE ENGINEERING. IN THE EVENT OF FIELD DIFFERENCES, THE CONTRACTOR IS REQUIRED TO PLAN THE INSTALLATION WORK ACCORDINGLY BY NOTIFICATION AND APPROVAL OF THE OWNER'S AUTHORIZED REPRESENTATIVE AND ACCORDING TO THE CONTRACT SPECIFICATION. THE CONTRACTOR IS ALSO REQUIRED TO NOTIFY AND COORDINATE IRRIGATION CONTRACT WORK WITH ALL APPLICABLE CONTRACTORS FOR THE LOCATION AND INSTALLATION OF PIPE, CONDUIT OR SLEEVES THROUGH OR UNDER WALLS, ROADWAYS, PAVING, STRUCTURE, ETC., BEFORE CONSTRUCTION. IN THE EVENT THESE NOTIFICATIONS ARE NOT PERFORMED, THE CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR ALL REQUIRED REVISIONS.

2. THE CONTRACTOR SHALL EXERCISE CARE IN LOCATING PIPING AS TO NOT CONFLICT WITH OTHER UTILITIES. DO NOT INSTALL IRRIGATION PIPING PARALLEL TO AND DIRECTLY OVER OTHER UTILITIES.

3. THE INTENT OF THIS IRRIGATION SYSTEM IS TO PROVIDE THE MINIMUM AMOUNT OF WATER REQUIRED TO SUSTAIN GOOD PLANT HEALTH.

4. IT IS THE RESPONSIBILITY OF THE LANDSCAPE MAINTENANCE CONTRACTOR AND/OR OWNER TO PROGRAM THE IRRIGATION CONTROLLERS TO PROVIDE THE MINIMUM AMOUNT OF WATER NEEDED TO SUSTAIN GOOD PLANT HEALTH. THIS INCLUDES MAKING ADJUSTMENTS TO THE PROGRAM FOR SEASONAL WEATHER CHANGES, PLANT MATERIAL, WATER REQUIREMENTS, MOUNDS AND SLOPES, SUN, SHADE, AND WIND EXPOSURES.

5. AT THE END OF THE REQUIRED MAINTENANCE PERIOD OF THE CONTRACTOR, THE OWNER SHALL PROVIDE REGULAR MAINTENANCE OF THE IRRIGATION SYSTEM TO ENSURE THE EFFICIENT USE OF WATER. MAINTENANCE SHALL INCLUDE, BUT NOT BE LIMITED TO CHECKING, ADJUSTING, AND REPAIRING IRRIGATION EQUIPMENT AND CONTROL SYSTEM.

6. THIS IRRIGATION SYSTEM INTERFACES WITH AN EXISTING IRRIGATION SYSTEM WHICH IS TO REMAIN IN SERVICE. THE EXISTING UNDERGROUND IRRIGATION EQUIPMENT AND OTHER UTILITIES HAVE NOT BEEN FIELD VERIFIED UNDER THE CONSTRUCTION DOCUMENT PHASE OF WORK. THE CONTRACTOR IS TO FIELD VERIFY THE LOCATION OF EXISTING IRRIGATION MAIN LINE PIPING, LATERAL LINE PIPING, LOW VOLTAGE AND HIGH VOLTAGE WIRE, COMMUNICATION CABLE, AND VALVES BEFORE CONSTRUCTION IS STARTED. DAMAGE TO THE EXISTING IRRIGATION SYSTEM AND OTHER VARIOUS UTILITIES SHALL BE REPAIRED BY THE CONTRACTOR AT NO ADDITIONAL EXPENSE TO THE OWNER. THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING THE CURRENT OPERATION OF THE EXISTING IRRIGATION SYSTEM WHICH SERVICES AREAS OUTSIDE OF THE CONTRACT WORK AREA. DO NOT SHUT DOWN GATE VALVES, SEVER MAIN OR LATERAL PIPING, AND/OR SEVER WIRE WHICH ORIGINATES IN OR TRAVELS THROUGH THIS CONTRACT WORK AREA UNLESS SPECIFICALLY DIRECTED TO DO SO BY THE CONTRACT DOCUMENTS OR BY WRITTEN APPROVAL FROM THE ARCHITECT. LANDSCAPE STRESS OUTSIDE OF THIS CONTRACT AREA WILL REQUIRE FULL REPLACEMENT OF THE LANDSCAPE DAMAGED UNDER THIS CONTRACT WORK AT NO ADDITIONAL EXPENSE TO THE OWNER. IF THE CONTRACTOR IS NOT AGREEABLE TO THIS CONDITION THEN THE CONTRACTOR MUST STATE THIS IN THE BID PROPOSAL DOCUMENTS.

7. 120 VOLT A.C. (2.5 AMP DEMAND) ELECTRICAL SERVICE TO IRRIGATION CONTROLLER LOCATION TO BE PROVIDED UNDER ELECTRICAL CONTRACT WORK. IRRIGATION CONTRACTOR TO MAKE FINAL CONNECTION FROM ELECTRICAL STUB-OUT TO CONTROLLER AND PROVIDE PROPER GROUNDING PER CONTROLLER MANUFACTURER'S INSTRUCTIONS.

8. CONTROLLER SHALL HAVE ITS OWN GROUND ROD. THE GROUND ROD SHALL BE AN EIGHT FOOT LONG BY 5/8" DIAMETER U.L. APPROVED COPPER CLAD ROD. NO MORE THAN 6" OF THE GROUND ROD TO BE ABOVE GRADE. CONNECT #8 GAUGE WIRE WITH A U.L. APPROVED GROUND ROD CLAMP TO ROD AND BACK TO GROUND SCREW AT BASE OF CONTROLLER WITH APPROPRIATE CONNECTOR. THIS WIRE SHOULD BE AS SHORT AS POSSIBLE, AVOIDING ANY KINKS OR BENDING. GROUND ROD SHALL BE A MINIMUM OF EIGHT FEET (8') FROM IRRIGATION CONTROL WIRE BUNDLE.

9. IRRIGATION CONTROLLER TO HAVE ITS OWN INDEPENDENT 24 VOLT COMMON GROUND WIRE.

10. CONTRACTOR SHALL PROGRAM THE IRRIGATION CONTROLLER TO PROVIDE IRRIGATION TO ALL PLANTING WITHIN THE ALLOWED WATERING WINDOW OF TIME AS REQUIRED. THE CONTRACTOR SHALL CREATE CONTROLLER PROGRAMING THAT WILL NOT EXCEED THE MAXIMUM GALLONS PER MINUTE FLOW RATE STATED ON THE DRAWINGS, AND NOT EXCEED THE CAPACITY OF ANY MAIN LINE PIPING.

11. IRRIGATION CONTROL WIRES SHALL BE COPPER WITH U.L. APPROVAL FOR DIRECT BURIAL IN GROUND, SIZE #14-1. COMMON GROUND WIRE SHALL HAVE WHITE INSULATING JACKET. CONTROL WIRE SHALL HAVE INSULATING JACKET OF COLOR OTHER THAN WHITE. SPLICE SHALL BE MADE WITH 3M-DBR/Y-6 SEAL PACKS.

12. FLOW SENSOR CABLE SHALL BE A SHIELDED, TWISTED PAIR CABLE, SIZE #16. NO SPLICES ALLOWED.

13. INSTALL SIX SPARE CONTROL WIRES OF A DIFFERENT COLOR ALONG THE ENTIRE MAIN LINE. LOOP 36" EXCESS WIRE INTO EACH SINGLE VALVE BOX AND INTO ONE VALVE BOX IN EACH GROUP OF VALVES. MINIMUM OF ONE SPARE WIRE PER CONTROLLER.

14. SPLICING OF 24 VOLT WIRES IS NOT PERMITTED EXCEPT IN VALVE BOXES. SEAL WIRE SPLICES WITH 3M-DBR/Y-6 SPLICE SEALING DEVICES OF SIZE COMPATIBLE WITH WIRE SIZE. LEAVE A 36" LONG, 1" DIAMETER COIL OF EXCESS WIRE AT EACH SPLICE AND A 36" LONG EXPANSION LOOP EVERY 100 FEET ALONG WIRE RUN. TAPE WIRES TOGETHER EVERY TEN FEET. TAPING WIRES IS NOT REQUIRED INSIDE SLEEVES.

15. PLASTIC VALVE BOXES ARE TO BE BLACK IN COLOR WITH BOLT DOWN, NON-HINGED COVER MARKED "IRRIGATION". BOX BODY SHALL HAVE KNOCK OUTS. MANUFACTURER SHALL BE CARSON INDUSTRIES.

16. INSTALL REMOTE CONTROL VALVE BOXES 12" FROM WALK, CURB, LAWN, HEADER BOARD, BUILDING, OR LANDSCAPE FEATURE. AT MULTIPLE VALVE BOX GROUPS, EACH BOX SHALL BE AN EQUAL DISTANCE FROM THE WALK, CURB. LAWN, ETC. AND EACH BOX SHALL BE 12" APART. SHORT SIDE OF RECTANGULAR VALVE BOXES SHALL BE PARALLEL TO WALK, CURB, ETC.

17. VALVE LOCATIONS SHOWN ARE DIAGRAMMATIC. INSTALL IN GROUND COVER/SHRUB AREAS WHERE POSSIBLE (NOT IN LAWN AREA).

18. INSTALL A SCHEDULE 80 THREADED FULL PORT BALL VALVE TO ISOLATE EACH REMOTE CONTROL VALVE OR GROUP OF RCV'S LOCATED TOGETHER. SIZE SHALL BE SAME AS LARGEST REMOTE CONTROL VALVE IN MANIFOLD.

19. THE IRRIGATION CONTRACTOR SHALL FLUSH AND ADJUST ALL SPRINKLER HEADS FOR OPTIMUM PERFORMANCE AND TO PREVENT OVER SPRAY ONTO WALKS, ROADWAYS, AND/OR BUILDINGS AS MUCH AS POSSIBLE. THIS SHALL INCLUDE SELECTING THE BEST DEGREE OF ARC TO FIT THE EXISTING SITE CONDITIONS AND TO THROTTLE THE FLOW CONTROL AT EACH VALVE TO OBTAIN THE OPTIMUM OPERATING PRESSURE FOR EACH SYSTEM.

20. ALL SPRINKLER HEADS SHALL BE SET PERPENDICULAR TO FINISH GRADE OF THE AREA TO BE IRRIGATED UNLESS OTHERWISE NOTED ON THE DRAWINGS.

21. LOCATE BUBBLERS ON UP-HILL SIDE OF PLANT OR TREE.

22. INSTALL A VALCON 5000 SERIES SPRING LOADED CHECK VALVE BELOW THOSE SPRINKLERS WHERE LOW HEAD DRAINAGE WILL CAUSE EROSION AND/OR EXCESS WATER.

23. WHERE IT IS NECESSARY TO EXCAVATE ADJACENT TO EXISTING TREES, THE CONTRACTOR SHALL USE ALL POSSIBLE CARE TO AVOID INJURY TO TREES AND TREE ROOTS. EXCAVATION IN AREAS WHERE TWO (2) INCH AND LARGER ROOTS OCCUR SHALL BE DONE BY HAND. TRENCHES ADJACENT TO TREE SHOULD BE CLOSED WITHIN TWENTY-FOUR (24) HOURS; AND WHERE THIS IS NOT POSSIBLE, THE SIDE OF THE TRENCH ADJACENT TO THE TREE SHALL BE KEPT SHADED WITH BURLAP OR CANVAS.

24. IRRIGATION CONTRACTOR TO NOTIFY ALL LOCAL JURISDICTIONS FOR INSPECTION AND TESTING OF EXISTING BACKFLOW PREVENTION DEVICE. REPAIR OR REPLACE AS TEST RESULTS INDICATE.

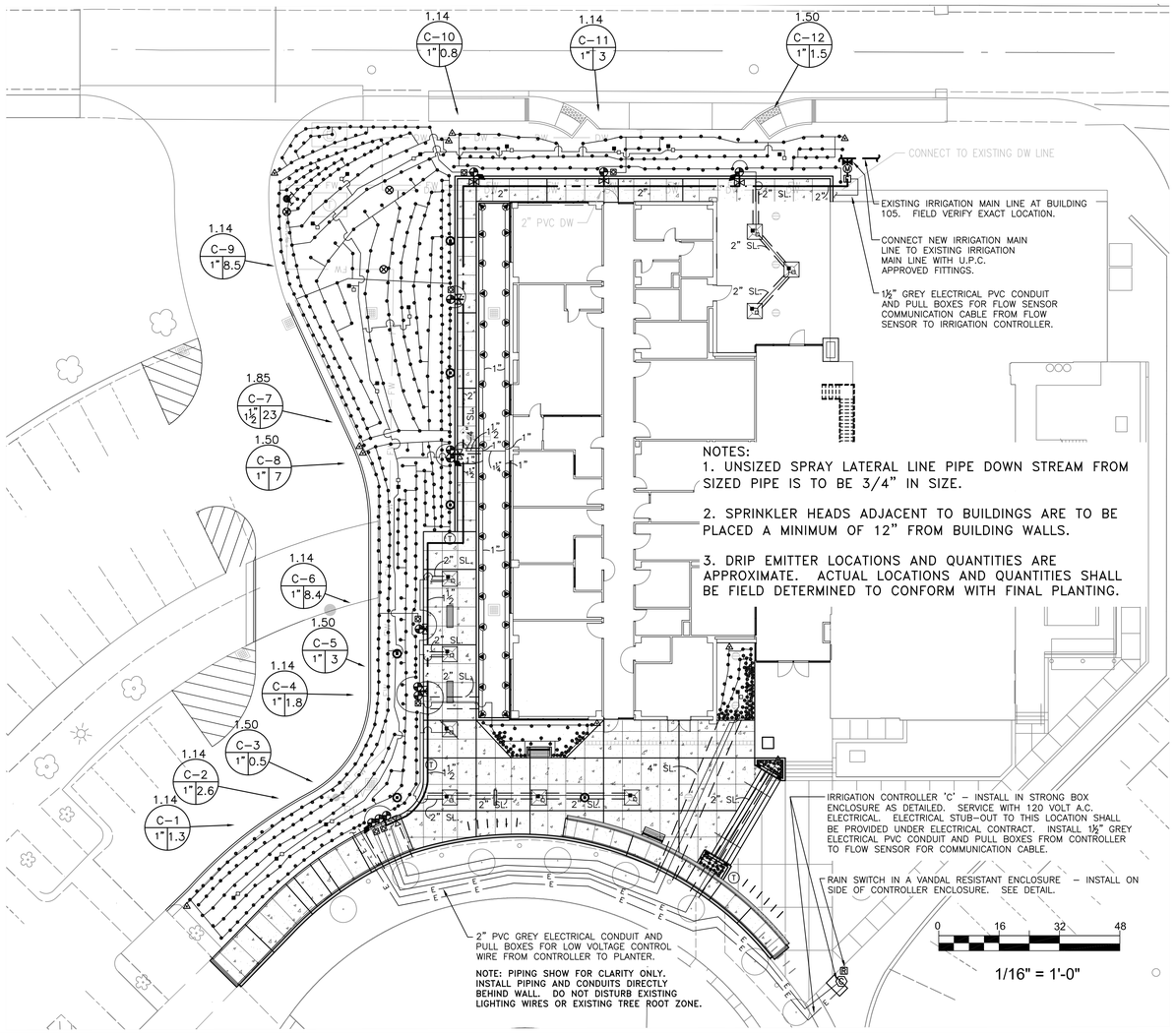
25. PRESSURE TEST PROCEDURE. THE CONTRACTOR SHALL:
   A. NOTIFY ARCHITECT AT LEAST THREE (3) DAY IN ADVANCE OF TESTING.
   B. PERFORM TESTING AT HIS OWN EXPENSE.
   C. CENTER LOAD PIPING WITH SMALL AMOUNT OF BACKFILL TO PREVENT ARCHING OR SLIPPING UNDER PRESSURE. NO FITTING SHALL BE COVERED.
   D. APPLY THE FOLLOWING TESTS AFTER WELD PLASTIC PIPE JOINTS HAVE CURED AT LEAST 24 HOURS.
      1. TEST LIVE (CONSTANT PRESSURE) AND QUICK COUPLER LINE HYDROSTATICALLY AT 125 PSI. MINIMUM. LINES WILL BE APPROVED IF TEST PRESSURE IS MAINTAINED FOR SIX (6) HOURS. THE LINE WILL BE APPROVED OR NOT APPROVED AS SUCH RESULTS MAY INDICATE. THE CONTRACTOR SHALL MAKE TESTS AND REPAIRS AS NECESSARY UNTIL TEST CONDITIONS ARE MET.
      2. TEST RCV CONTROLLED LATERAL LINES WITH WATER AT LINE PRESSURE AND VISUALLY INSPECT FOR LEAKS. RETEST AFTER CORRECTING DEFECTS.

26. THE SPRINKLER SYSTEM DESIGN IS BASED ON THE MINIMUM OPERATING PRESSURE SHOWN ON THE IRRIGATION DRAWINGS. THE IRRIGATION CONTRACTOR SHALL VERIFY WATER PRESSURE PRIOR TO CONSTRUCTION. REPORT ANY DIFFERENCE BETWEEN THE WATER PRESSURE INDICATED ON THE DRAWINGS AND THE ACTUAL PRESSURE READING AT THE IRRIGATION POINT OF CONNECTION TO THE OWNER'S AUTHORIZED REPRESENTATIVE.

27. IRRIGATION DEMAND: 23 GPM AT 55 PSI STATIC PRESSURE AT IRRIGATION POINT OF CONNECTION. FIELD VERIFY WATER PRESSURE PRIOR TO CONSTRUCTION. IF ACTUAL WATER PRESSURE DIFFERS FROM THE STATED PRESSURE CONTACT ARCHITECT FOR DIRECTION AND POSSIBLE REVISION.

28. THE EXISTING MAIN LINE SHOWN ON THE DRAWINGS IS DIAGRAMMATIC. CONTRACTOR TO VERIFY AND LOCATE EXISTING MAIN LINE IN FIELD. ANY DEVIATION OF EXISTING MAIN LINE LOCATION AS SHOWN ON THE DRAWINGS IS TO BE REPORTED TO ARCHITECT FOR REVIEW AND POSSIBLE REVISION.

29. PIPE THREAD SEALANT COMPOUND SHALL BE RECTOR SEAL T+2, CHRISTY'S ULTRA SEAL, OR APPROVED EQUAL.



IRRIGATION LEGEND

SYMBOL	MODEL NUMBER	DESCRIPTION
	PROS-12-PRS30-CV-8-H,Q	HUNTER POP-UP SPRAY SPRINKLER (SHRUB)
	SL220	BOWSMITH SINGLE OUTLET EMITTER (2 GPH)
	PCB-25	HUNTER BUBBLER (TREE)
	RZWS-18-25-CV	HUNTER ROOT ZONE BUBBLER ASSEMBLY AND CHECK VALVE. (TREE)
	PRB-QKCHK-200M & LT-T	RAIN BIRD PRESSURE REGULATING, QUICK CHECK BASKET FILTER WITH 200 STAINLESS STEEL SCREEN AND SCHEDULE 80 PVC FULL PORT BALL VALVE
	SEE DETAIL	EMITTER FLUSH VALVE ASSEMBLY
M	3200-1"	SUPERIOR NORMALLY CLOSED MASTER CONTROL VALVE
F	FSI-T10-001-1"/P7162D-A	CREATIVE SENSOR TECHNOLOGY FLOW SENSOR WITH PAGE SHIELDED COMMUNICATION CABLE
	IBV-FS-SERIES	HUNTER FILTER SENTRY BRASS REMOTE CONTROL VALVE
	LT-T	NDS SCHEDULE 80 PVC FULL PORT BALL VALVE (LINE SIZE)
	HQ-33DRC	HUNTER QUICK COUPLING VALVE
	T-113	NIBCO GATE VALVE (LINE SIZE)
C	WTPRO2-C-18-RI/ETE-PRO2-CIM-5Y/PM-RCVR/PM-UADAPT	WeatherTRAK ET Pro2 CONTROLLER WITH FIVE YEAR WIRELESS DATA SERVICE, RAINMASTER RECEIVER, AND UNIVERSAL ADAPTOR AND CABLES (MOUNT IN STRONG BOX ENCLOSURE)
R	MINI-CLIK-SG-MC	HUNTER RAIN SWITCH IN SECURITY ENCLOSURE

SYMBOL	MODEL NUMBER	DESCRIPTION
		PRECIPITATION RATE
		CONTROLLER & STATION NUMBER
		APPROXIMATE FLOW (GPM)
		REMOTE CONTROL VALVE SIZE
		MAIN LINE: 1120-SCHEDULE 40 PVC PLASTIC PIPE WITH SCHEDULE 40 PVC SOLVENT-WELD FITTINGS. 18" COVER.
		LATERAL LINE: 1120-SCHEDULE 40 PVC PLASTIC PIPE WITH SCHEDULE 40 PVC SOLVENT-WELD FITTINGS. 12" COVER.
		SLEEVING: 1120-SCHEDULE 40 PVC PLASTIC PIPE. 18" COVER. 24" UNDER VEHICULAR PAVING.

EMITTER LATERAL SIZING

NUMBER OF EMITTER OUTLETS	PIPE SIZE
1 – 60	¾"
61 – 100	1"
101 – 200	1¼"
201 +	1½"

GENERAL NOTES

KEY NOTES

LEGEND

ISSUED FOR BID

UNDERGROUND SERVICE ALERT 1-800-227-2600 CALL BEFORE YOU DIG

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Revisions	Date
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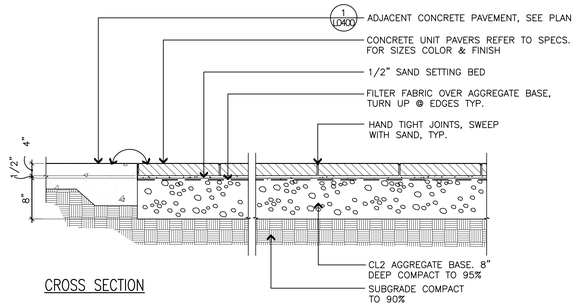
St. Louis ■ San Francisco ■ Shanghai ■ Toronto
Vancouver ■ Victoria ■ Washington DC

Drawing Title: IRRIGATION PLAN	Project Title: VA SIMULATION CENTER	VA Project Number: 640-385	
		Building Number: 105	
Approved: Project Director: -	Location: Veterans Affairs Palo Alto Heath Care System, 3801 Miranda Ave,Palo Alto, CA 94304	Drawing No. L0300	
	Date: JUNE 14, 2013 / Checked: RA / Drawn: RA/SK		

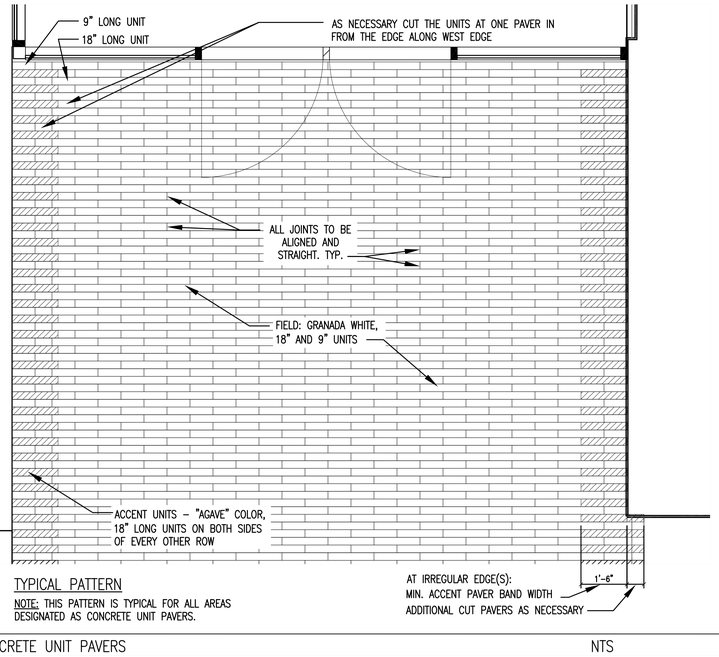
VA PAHCS Veterans Affairs Palo Alto Health Care System

Department of Veterans Affairs

VA SIMULATION CENTER/A/JOB/13-211/ L0300_IRRIG / L0300 /SYMBOL SIZE: 192 /06-07-2013 CK



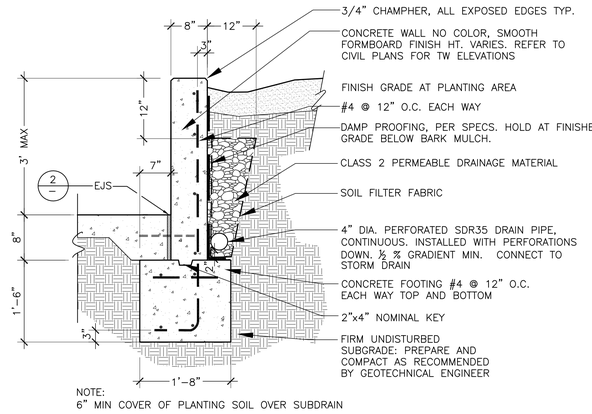
CROSS SECTION



TYPICAL PATTERN

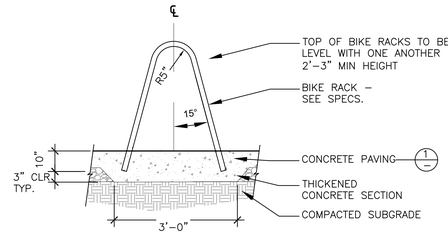
NOTE: THIS PATTERN IS TYPICAL FOR ALL AREAS DESIGNATED AS CONCRETE UNIT PAVERS.

7 CONCRETE UNIT PAVERS NTS



NOTE:
6" MIN COVER OF PLANTING SOIL OVER SUBDRAIN

4 LOW CONCRETE RETAINING WALL NTS



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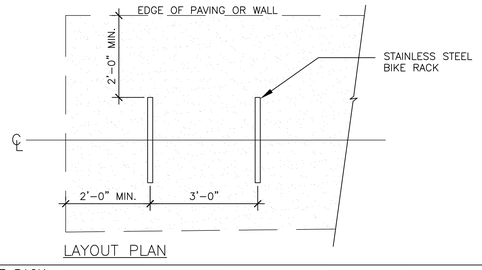
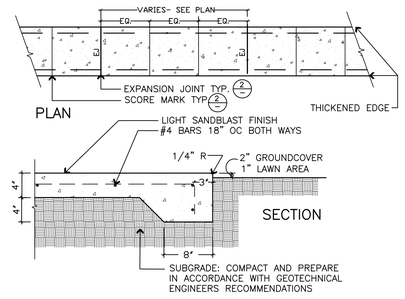


LAYOUT PLAN

5 BICYCLE RACK NTS

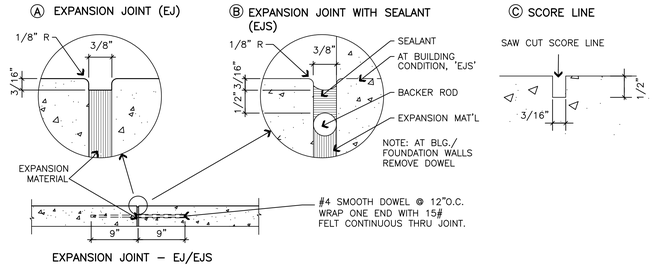


PLAN

SECTION

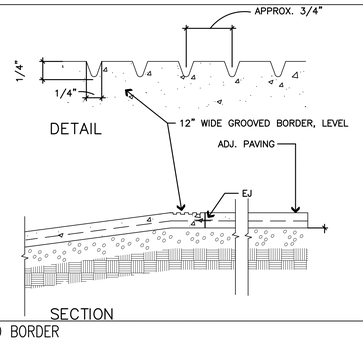
* THICKENED EDGE SHALL OCCUR @ EDGES OF ALL CONCRETE PAVED SURFACES

1 CONCRETE PAVEMENT – SECTION NTS



EXPANSION JOINT – EJ/EJS

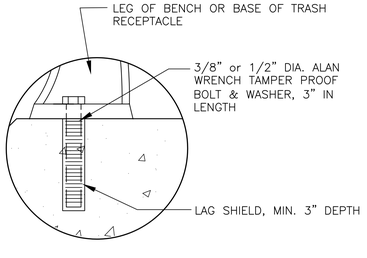
2 EXPANSION JOINT AND SCORE MARK – SECTION NTS



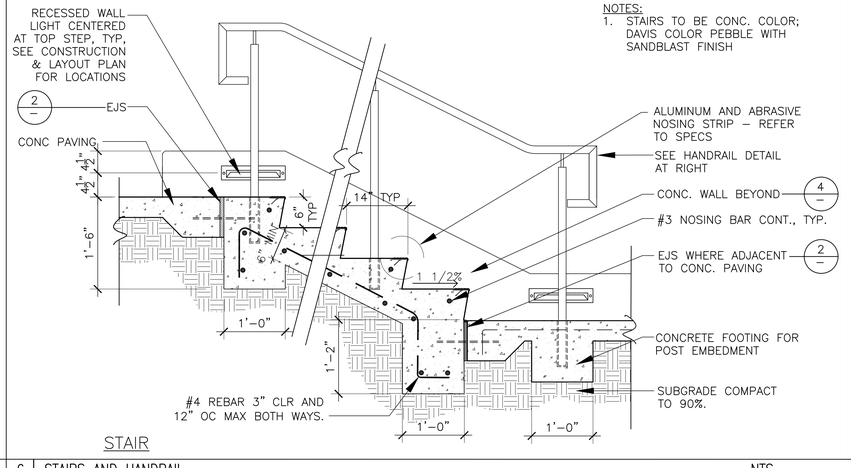
DETAIL

SECTION

3 GROOVED BORDER NTS

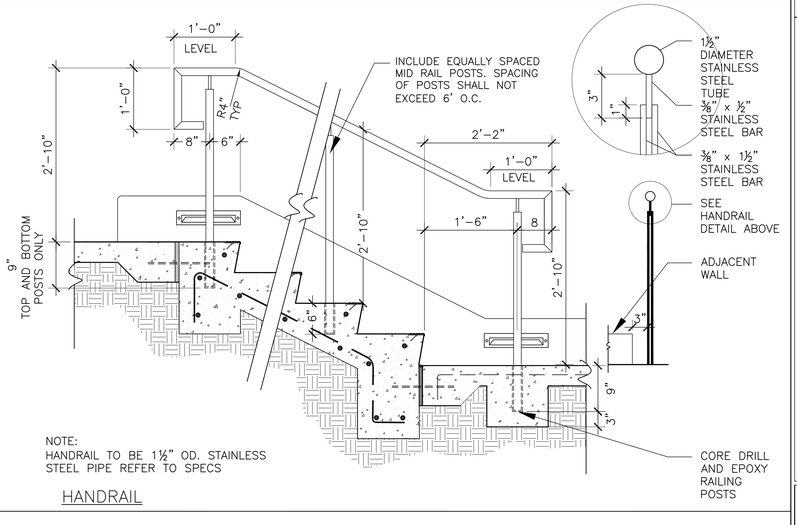


8 ANCHOR BOLT FOR FURNISHINGS NTS



NOTES:
1. STAIRS TO BE CONC. COLOR; DAVIS COLOR PEBBLE WITH SANDBLAST FINISH

STAIR



NOTE:
HANDRAIL TO BE 1½" OD. STAINLESS STEEL PIPE REFER TO SPECS

HANDRAIL

6 STAIRS AND HANDRAIL NTS

GENERAL NOTES

KEY NOTES

LEGEND

ISSUED FOR BID

Revisions	Date
9	
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CONSULTANTS:

MPA Design
Landscape Architects and Urban Designers
1801 Oakland Blvd.
Suite 315
Walnut Creek, CA 94596
925 210-0418

Seals and Signatures

REGISTERED LANDSCAPE ARCHITECT
MICHAEL R. PARKER
C 971
Signature
1/31/15
Date
STATE OF CALIFORNIA

ARCHITECT/ENGINEERS:

CANNONDESIGN
201 Mission Street, Suite 2400, San Francisco, California 94105 415.243.4170
Baltimore ■ Boston ■ Buffalo ■ Calgary ■ Chicago
Houston ■ Los Angeles ■ Mumbai ■ New York ■ Phoenix
St. Louis ■ San Francisco ■ Shanghai ■ Toronto
Vancouver ■ Victoria ■ Washington DC

Drawing Title: HARDSCAPE DETAILS

Approved: Project Director: -

Project Title: VA SIMULATION CENTER

Location: Veterans Affairs Palo Alto Heath Care System, 3801 Miranda Ave,Palo Alto, CA 94304

Date: JUNE 14, 2013 | Checked: RA | Drawn: RA/SK

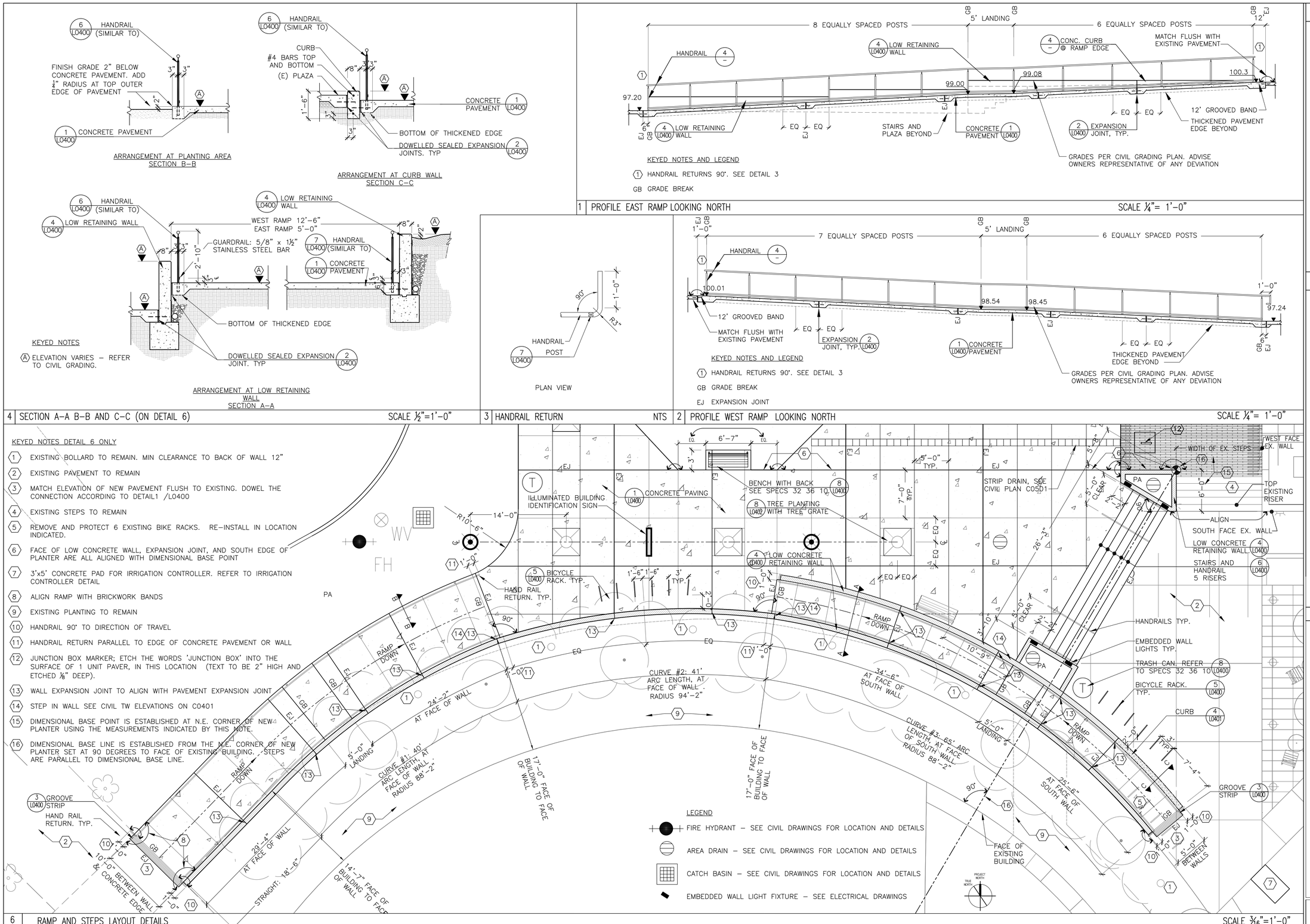
VA Project Number: 640-385

Building Number: 105

Drawing No. L0400

VA PAHCS Veterans Affairs Palo Alto Health Care System

Department of Veterans Affairs



GENERAL NOTES

KEY NOTES

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CONSULTANTS:

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Vancouver ■ Victoria ■ Washington DC

Drawing Title: LANDSCAPE AND HARDSCAPE DETAILS

Approved: Project Director: -

Project Title: VA SIMULATION CENTER

Location: Veterans Affairs Palo Alto Heath Care System, 3801 Miranda Ave,Palo Alto, CA 94304

Date: JUNE 14, 2013 | Checked: RA | Drawn: RA/SK

VA Project Number: 640-385

Building Number: 105

Drawing No.: L0401

VA PAHCS Veterans Affairs Palo Alto Health Care System

Department of Veterans Affairs

City of Palo Alto Outdoor Water Efficiency Requirements and Calculations – Non-Residential

LANDSCAPE WATER USE STATEMENT

Complete this form using the values derived from the City of Palo Alto Water Use Calculations worksheet or similar format in which the same information is provided and calculations shown.

VA SIMULATION CENTER 06-06-2013

Applicant or Project Name_____ Date_____

Address of Project 3801 Miranda Avenue, Palo Alto, CA

Total Landscaped Area 9,057 (square feet)

Maximum Applied Water Allowance (MAWA):

Maximum water use for projects in Palo Alto is based on the formula below. Annual historical ETo is 43.1 inches per year. In the formula below, the ET adjustment factor (ETAF) is either 60% or 55%, depending upon the project scope, and the number 0.62 converts inches per year into gallons.

43.1 x 0.62 x ETAF (.55) x 9,057 = 133,112 gallons

(ETo) (Conversion To gallons) (Adj. Factor) (Area) (Annual Total)

43.1 x 0.62 x [(ETAF x _____) + (0.3 x _____)] = _____ gallons

(ETo) (Conversion To gallons) (Adj. Factor) (Area) (Adj. Factor) (Special Landscape Area) (Annual Total)

Landscape Water Requirements:

Enter the landscape water required from a water use calculations form. The estimated total water use may not exceed the Maximum Applied Water Allowance.

Estimated Landscape Irrigation Water Required: 87,393 gallons (P)

Estimated Non-irrigation Landscape Water Required: 0 gallons

Estimated Total Water Use – ETWU (Irrigation and Non-Irrigation Water): 87,393 gallons

Certification:

I certify that the **Landscape Water Use Statement, Water Use Calculations** and associated landscape and irrigation plans have been developed according to the Outdoor Water Use Efficiency requirements of the City of Palo Alto Green Building Program and that this statement represents the landscape water allowance and estimated water requirements of this project.

Marty Dickson, Dickson & Associates, Inc.

Name of Landscape Architect or Irrigation Designer

PO Box 415, Palo Cedro, CA 96073 530-547-5515

Mailing Address Telephone

marty@dicksoninc.net

Email Address

Updated January 2011
Page 7 of 9

City of Palo Alto Outdoor Water Efficiency Requirements and Calculations – Non-Residential

WATER USE CALCULATIONS

Use as many forms as necessary to provide calculations for every valve/hydrozone in the project.

Project Address VA, 3801 Miranda Avenue, Palo Alto Date: 06-06-2013 Total Planted Area (sf) 9,057 (J) ETo: 43.1* (A)

Effective Precipitation

Total mean local precipitation (in./year) 15.07 in. (Q) (30 year mean for Palo Alto, 1961 - 1990)
Effective Precipitation (q x 25%): 3.77 in. (R) Net ETo (A - R): 39.33 in. (S)

Irrigation System Design Factors

VALVE/ HYDROZONE NUMBER (B)	PLANT MATERIAL (C)	Species Factor (K_s)	Density Factor (K_d)	Micro-climate Factor (K_{mc})	AVG LANDSCAPE COEFFICIENT (K_L) (D)	AREA SQUARE FEET (E)	PLANT WATER REQUIREMENT GALLONS (F)	SYSTEM TYPE (G)	ESTIMATED DESIGN EFFICIENCY (H)	VALVE OR HYDROZONE WATER REQUIREMENT GALLONS (L)
SPRAY LOW	SHRUBS	.3	1	1	.3	1,100	8,818	SPRAY	.7	12,598
DRIP MOD	SHRUBS	.5	1	1	.5	257	3,434	DRIP	.9	3,815
DRIP LOW	SHRUBS	.3	1	1	.3	7,316	58,649	DRIP	.9	65,166
BUB MOD	TREES	.5	1	1	.5	384	5,131	BUBBLER	.85	6,036

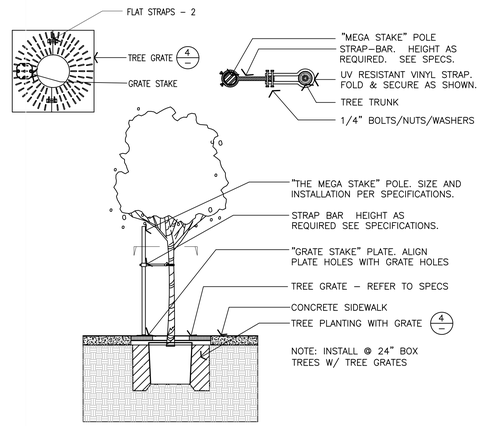
*Real-time CIMIS data may be used.

Totals: 9,057 (Total sf) (J) 76,032 (Total gallons) (K) 87,615 (System Total, All zones) (L)

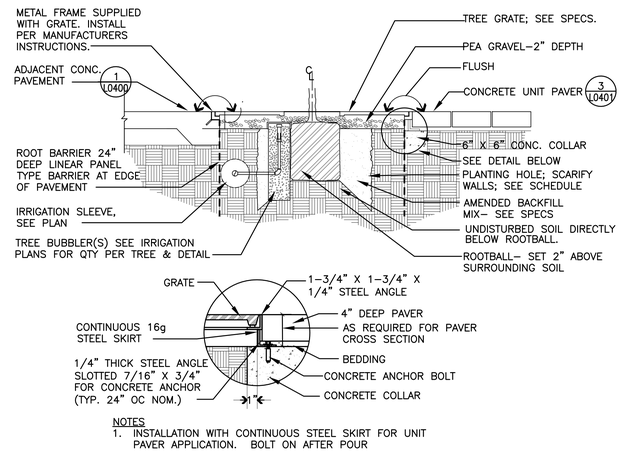
Average Irrigation Design Efficiency: .87 (M)
Total Plant Water Requirement, (K), divided by System Total, (L)

Total Estimated Irrigation Requirement: 87,393 gallons (P)
Total Plant Water Requirement, (K), divided by Irrigation Efficiency, (M)

Updated January 2011
Page 9 of 9

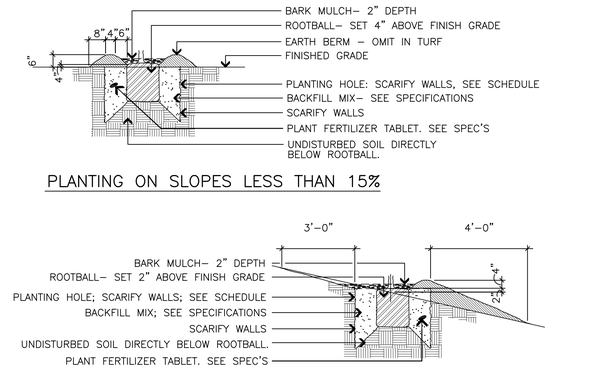


7 METAL TREE STAKE FOR GRATE APPLICATION NTS



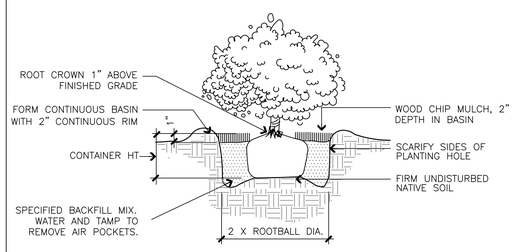
FRAME EDGE DETAIL AT UNIT PAVERS

4 TREE PLANTING WITH TREE GRATE NTS



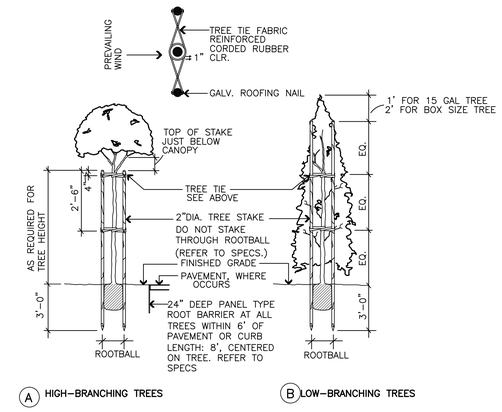
N.I.C. REFER T L0200

1 TREE PLANTING NTS



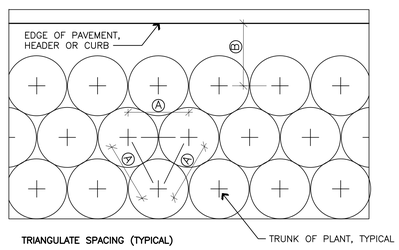
N.I.C. REFER T L0200

5 SHRUB PLANTING NTS



N.I.C. REFER T L0200

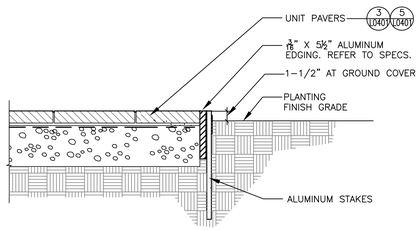
2 TREE STAKING AND ROOT BARRIER NTS



NOTE:
1. WHERE PARALLEL ROWS FOLLOW CURVING CONTOURS, TRIANGULAR SPACING NOT REQUIRED. MAINTAIN HORIZONTALLY PARALLEL ROWS, SEE PLAN.
2. "A"= ON CENTER SPACING; REFER TO PLANT SCHEDULE.
3. "B"= DISTANCE FROM EDGE OF PAVEMENT, HEADER OR CURB TO CENTER OF SHRUB OR GROUNDCOVER EQUAL TO 75% OF "A", ON CENTER SPACING. I.E. IF "A" = 4'–0", THEN B= 3'–0".

N.I.C. REFER T L0200

6 SHRUB AND GROUND COVER SPACING – PLAN NTS



3 ALUMINUM EDGING NTS

12 WATER USE CALCULATIONS

Revisions	Date
9	
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CONSULTANTS:

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Seals and Signatures

REGISTERED LANDSCAPE ARCHITECT
RAFAEL R. PANTOJA
C 971
Signature
1/31/15
Date
STATE OF CALIFORNIA

ARCHITECT/ENGINEERS:

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Vancouver ■ Victoria ■ Washington DC

Drawing Title: LANDSCAPE DETAILS

Approved: Project Director: -

Project Title: VA SIMULATION CENTER

VA Project Number: 640-385

Building Number: 105

Location: Veterans Affairs Palo Heath Care System, 3801 Miranda Ave,Palo Alto, CA 94304

Date: JUNE 14, 2013 Checked: RA Drawn: RA/SK

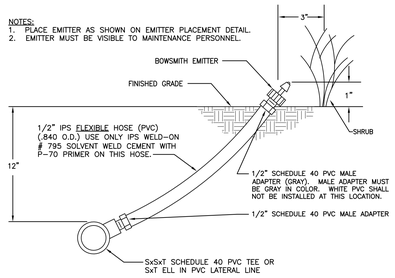
Drawing No.: L0402

ISSUED FOR BID

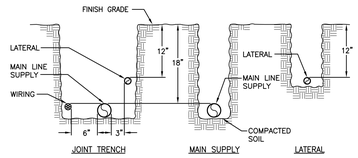
VA PAHCS Veterans Affairs Palo Alto Health Care System

Department of Veterans Affairs

NOTES:
1. PLACE EMITTER AS SHOWN ON EMITTER PLACEMENT DETAIL.
2. EMITTER MUST BE VISIBLE TO MAINTENANCE PERSONNEL.



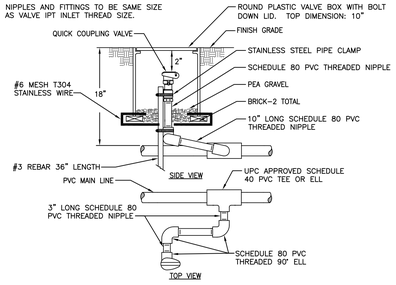
10 FLEXIBLE EMITTER RISER — NOT TO SCALE



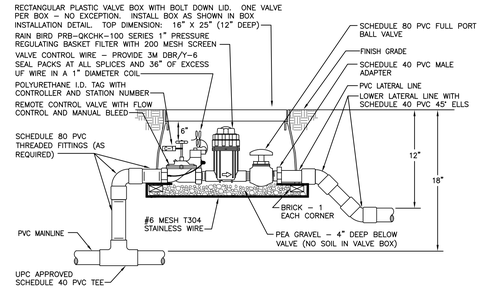
NOTES:
1. ALL PLASTIC PIPING SHALL BE INSTALLED IN THE TRENCH IN A SERPENTINE MANNER AS PER THE MANUFACTURER'S SPECIFICATIONS.
2. ALL SUPPLY LINES TO BE INSTALLED AS PER MANUFACTURER'S SPECIFICATIONS.
3. TAPE AND BUNDLE TUBING OR WIRING AT 10 FEET INTERVALS.
4. ALL 120 VOLT WIRING IN CONDUIT TO BE INSTALLED IN ACCORDANCE WITH ALL APPLICABLE CODES.
5. BACKFILL MATERIAL SHALL BE THE EARTH EXCAVATED FROM THE TRENCHES, FREE FROM ROCKS, CONCRETE CHUNKS, AND OTHER FOREIGN OR COARSE MATERIALS. CAREFULLY SELECT BACKFILL THAT IS TO BE PLACED NEXT TO PLASTIC PIPE TO AVOID ANY SHARP OBJECTS WHICH MAY DAMAGE THE PIPE.

7 TRENCHING DETAIL — NOT TO SCALE

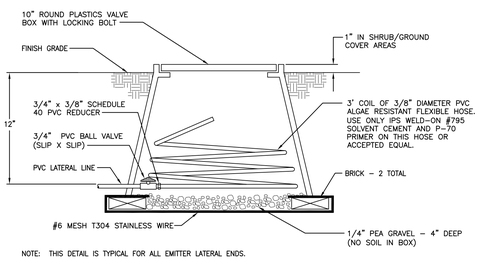
NOTE: NIPPLES AND FITTINGS TO BE SAME SIZE AS VALVE IPT INLET THREAD SIZE.



4 QUICK COUPLING VALVE — NOT TO SCALE



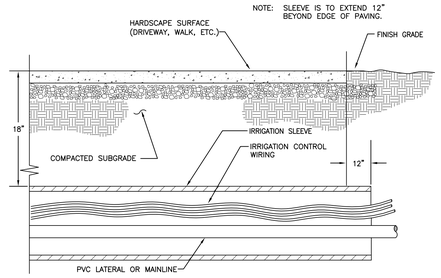
1 DRIP ZONE CONTROL VALVE ASSEMBLY — NOT TO SCALE



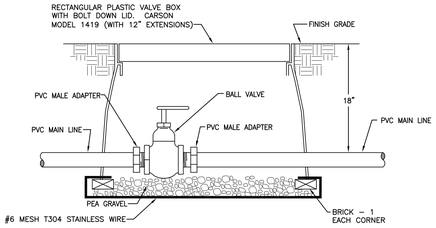
NOTE: THIS DETAIL IS TYPICAL FOR ALL EMITTER LATERAL ENDS.

13 EMITTER LINE FLUSH VALVE — NOT TO SCALE

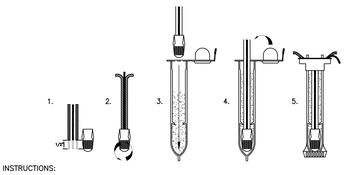
NOTE: SLEEVE IS TO EXTEND 12" BEYOND EDGE OF PAVING.



8 SLEEVING INSTALLATION — NOT TO SCALE

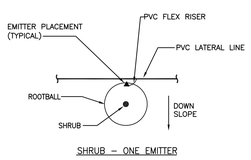


5 BALL VALVE — NOT TO SCALE



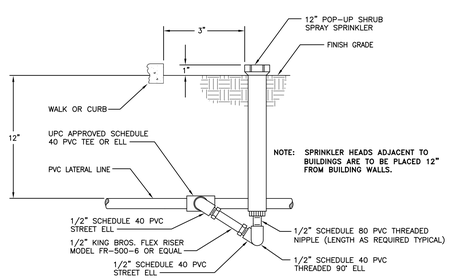
INSTRUCTIONS:
1. USE 3M-DBR/Y-6 WEATHER PROOF SPLICE.
2. STRIP WIRES APPROXIMATELY 1/2" (12.7 MM) TO EXPOSE WIRE.
3. TWIST CONNECTOR AROUND WIRES CLOCKWISE UNTIL HAND TIGHT, DO NOT OVERTIGHTEN.
4. INSERT WIRE ASSEMBLY INTO PLASTIC TUBE UNTIL WIRE CONNECTOR SNAPS PAST LIP IN BOTTOM OF TUBE.
5. PLACE WIRES WHICH EXIT TUBE IN WIRE EXIT HOLES AND CLOSE CAP UNTIL IT SNAPS.
6. INSPECT FINAL SPLICE ASSEMBLY TO BE SECURE AND FINISHED.

2 WEATHERPROOF SPLICE ASSEMBLY — NOT TO SCALE



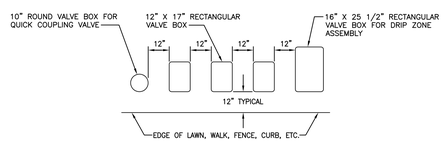
SHRUB - ONE EMITTER

12 SINGLE OUTLET EMITTER PLACEMENT — NOT TO SCALE



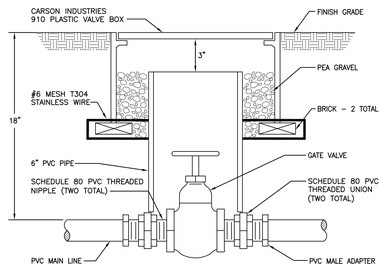
NOTE: SPRINKLER HEADS ADJACENT TO BUILDINGS ARE TO BE PLACED 12" FROM BUILDING WALLS.

9 POP-UP SPRAY SPRINKLER RISER — NOT TO SCALE



1. CENTER VALVE BOX OVER REMOTE CONTROL VALVE TO FACILITATE SERVICING VALVE.
2. SET BOXES 1" ABOVE FINISH GRADE OR MULCH COVER IN GROUND COVER/SHRUB AREA AND FINISH GRADE IN TURF AREA.
3. SET RCV AND VALVE BOX ASSEMBLY IN GROUND COVER/SHRUB AREA WHERE POSSIBLE. INSTALL IN LAWN ONLY IF GROUND COVER DOES NOT EXIST ADJACENT TO LAWN.
4. SET BOXES PARALLEL TO EACH OTHER AND PERPENDICULAR TO EDGE OF LAWN, WALK, FENCE, CURB, ETC.
5. AVOID HEAVILY COMPACTING SOIL AROUND VALVE BOXES TO PREVENT COLLAPSE AND DEFORMATION OF VALVE BOX SIDES.
6. INSTALL EXTENSION BY VALVE BOX MANUFACTURER AS REQUIRED TO COMPLETELY ENCLOSE ASSEMBLY FOR EASY ACCESS.

6 VALVE BOX INSTALLATION — NOT TO SCALE



3 GATE VALVE — NOT TO SCALE

DICKSON & ASSOCIATES, INC.
LANDSCAPE IRRIGATION
MARTY DICKSON, ASIC-PIC
TEL(530) 547-5515 FAX(530) 547-5513
P.O. BOX 415
PALO CEDRO, CALIFORNIA 96073
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GENERAL NOTES

KEY NOTES

LEGEND

ISSUED FOR BID

Revisions	Date
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CONSULTANTS:

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925 210-0418

Seals and Signatures

REGISTERED LANDSCAPE ARCHITECT — RACHEL R. PARKER — C 971 — EXPIRES 1/31/15 — STATE OF CALIFORNIA

ARCHITECT/ENGINEERS:

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St. Louis ■ San Francisco ■ Shanghai ■ Toronto
Vancouver ■ Victoria ■ Washington DC

Drawing Title: IRRIGATION DETAILS

Approved: Project Director: -

Project Title: VA SIMULATION CENTER

Location: Veterans Affairs Palo Alto Heath Care System, 3801 Miranda Ave,Palo Alto, CA 94304

Date: JUNE 14, 2013 | Checked: RA | Drawn: RA/SK

VA Project Number: 640-385

Building Number: 105

Drawing No.: L0403

VA PAHCS Veterans Affairs Palo Alto Health Care System

Department of Veterans Affairs

VA SIMULATION CENTER/A/JOB/13-211/ L0400 Det / L400 /SYMBOL SIZE: NONE /06-06-2013 CK

IRRIGATION SCHEDULES

SPRAY IRRIGATION @ SHRUB/GROUNDCOVER			
SPRINKLER MANUFACTURER	HUNTER	LOCATION:	PALO ALTO, CALIFORNIA
PRECIPITATION RATE (INCHES/HOUR):	1.85	HEAD SPACING:	VARIES
IRRIGATION SYSTEM EFFICIENCY	0.70	HEAD GPM:	VARIES
PLANT FACTOR:	0.30		
YEAR 2 REDUCTION AMOUNT:	-10% OF YEAR 1 (ESTABLISHMENT) RUN TIME MINUTES		

MONTH:		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
ETO PER MONTH (INCHES):		1.50	1.80	2.80	3.80	5.20	5.30	6.20	5.60	5.00	3.20	1.70	1.00	43.00
ETO PER WEEK (INCHES):		0.346	0.416	0.647	0.878	1.201	1.224	1.432	1.293	1.155	0.739	0.393	0.231	
APPLIED ETO PER WEEK (INCHES):		0.148	0.178	0.277	0.376	0.515	0.525	0.614	0.554	0.495	0.317	0.168	0.099	
MINUTES OF WATER PER WEEK:	YEAR 1	5	6	9	12	17	17	20	18	16	10	5	3	
	YEAR 2	4	5	8	11	15	15	18	16	14	9	5	3	
DAYS PER WEEK:	YEAR 1	1	1	1	2	2	2	2	2	2	1	1	1	
	YEAR 2	1	1	1	2	2	2	2	2	2	1	1	1	
MINUTES OF WATER PER DAY:	YEAR 1	5	6	9	6	8	9	10	9	8	10	5	3	
	YEAR 2	4	5	8	5	8	8	9	8	7	9	5	3	
CYCLES PER DAY:	YEAR 1	1	1	1	1	1	1	1	1	1	1	1	1	
	YEAR 2	1	1	1	1	1	1	1	1	1	1	1	1	
MINUTES PER CYCLE:	YEAR 1	5	6	9	6	8	9	10	9	8	10	5	3	
	YEAR 2	4	5	8	5	8	8	9	8	7	9	5	3	

SINGLE OUTLET EMITTER DRIP IRRIGATION @ SHRUB/GROUNDCOVER (MODERATE)			
SPRINKLER MANUFACTURER	BOWSMITH	LOCATION:	PALO ALTO, CALIFORNIA
PRECIPITATION RATE (INCHES/HOUR):	1.14	HEAD SPACING:	VARIES
IRRIGATION SYSTEM EFFICIENCY	0.85	HEAD FLOW:	2 GPH
PLANT FACTOR:	0.50		
YEAR 2 REDUCTION AMOUNT:	-10% OF YEAR 1 (ESTABLISHMENT) RUN TIME MINUTES		

MONTH:		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
ETO PER MONTH (INCHES):		1.50	1.80	2.80	3.80	5.20	5.30	6.20	5.60	5.00	3.20	1.70	1.00	43.00
ETO PER WEEK (INCHES):		0.346	0.416	0.647	0.878	1.201	1.224	1.432	1.293	1.155	0.739	0.393	0.231	
APPLIED ETO PER WEEK (INCHES):		0.204	0.245	0.380	0.516	0.706	0.720	0.842	0.761	0.679	0.435	0.231	0.136	
MINUTES OF WATER PER WEEK:	YEAR 1	11	13	20	27	37	38	44	40	36	23	12	7	
	YEAR 2	10	12	18	24	33	34	40	36	32	21	11	6	
DAYS PER WEEK:	YEAR 1	1	1	2	2	2	3	3	3	3	2	1	1	
	YEAR 2	1	1	2	2	2	3	3	3	3	2	1	1	
MINUTES OF WATER PER DAY:	YEAR 1	11	13	10	14	19	13	15	13	12	11	12	7	
	YEAR 2	10	12	9	12	17	11	13	12	11	10	11	6	
CYCLES PER DAY:	YEAR 1	1	1	1	1	1	1	1	1	1	1	1	1	
	YEAR 2	1	1	1	1	1	1	1	1	1	1	1	1	
MINUTES PER CYCLE:	YEAR 1	11	13	10	14	19	13	15	13	12	11	12	7	
	YEAR 2	10	12	9	12	17	11	13	12	11	10	11	6	

SINGLE OUTLET EMITTER DRIP IRRIGATION @ SHRUB/GROUNDCOVER (LOW)			
SPRINKLER MANUFACTURER	BOWSMITH	LOCATION:	PALO ALTO, CALIFORNIA
PRECIPITATION RATE (INCHES/HOUR):	1.14	HEAD SPACING:	VARIES
IRRIGATION SYSTEM EFFICIENCY	0.85	HEAD FLOW:	2 GPH
PLANT FACTOR:	0.30		
YEAR 2 REDUCTION AMOUNT:	-10% OF YEAR 1 (ESTABLISHMENT) RUN TIME MINUTES		

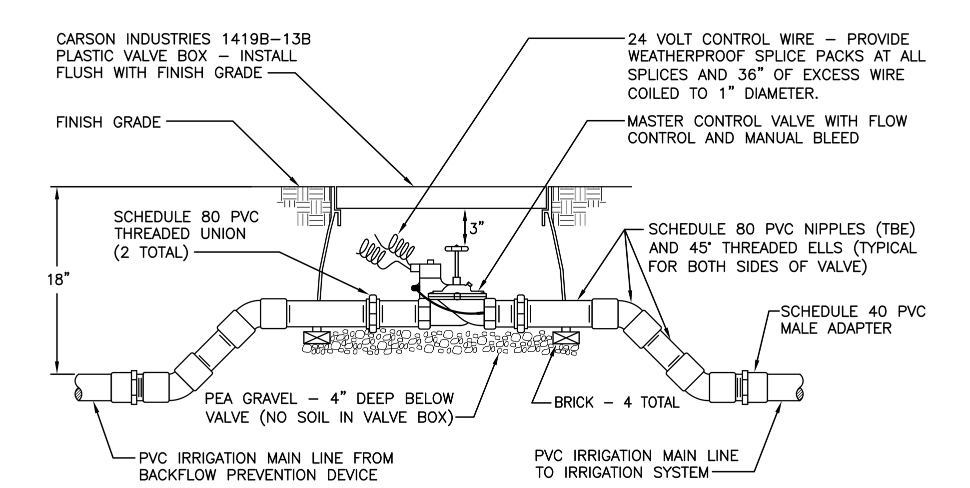
MONTH:		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
ETO PER MONTH (INCHES):		1.50	1.80	2.80	3.80	5.20	5.30	6.20	5.60	5.00	3.20	1.70	1.00	43.00
ETO PER WEEK (INCHES):		0.346	0.416	0.647	0.878	1.201	1.224	1.432	1.293	1.155	0.739	0.393	0.231	
APPLIED ETO PER WEEK (INCHES):		0.122	0.147	0.228	0.310	0.424	0.432	0.505	0.456	0.408	0.261	0.139	0.082	
MINUTES OF WATER PER WEEK:	YEAR 1	6	8	12	16	22	23	27	24	21	14	7	4	
	YEAR 2	6	7	11	15	20	20	24	22	19	12	7	4	
DAYS PER WEEK:	YEAR 1	1	1	1	2	2	2	2	2	2	1	1	1	
	YEAR 2	1	1	1	2	2	2	2	2	2	1	1	1	
MINUTES OF WATER PER DAY:	YEAR 1	6	8	12	8	11	11	13	12	11	14	7	4	
	YEAR 2	6	7	11	7	10	10	12	11	10	12	7	4	
CYCLES PER DAY:	YEAR 1	1	1	1	1	1	1	1	1	1	1	1	1	
	YEAR 2	1	1	1	1	1	1	1	1	1	1	1	1	
MINUTES PER CYCLE:	YEAR 1	6	8	12	8	11	11	13	12	11	14	7	4	
	YEAR 2	6	7	11	7	10	10	12	11	10	12	7	4	

BUBBLER IRRIGATION @ TREES			
SPRINKLER MANUFACTURER	HUNTER	LOCATION:	PALO ALTO, CALIFORNIA
PRECIPITATION RATE (INCHES/HOUR):	1.50	HEAD SPACING:	VARIES
IRRIGATION SYSTEM EFFICIENCY	0.80	HEAD GPM:	2 X .25 GPM
PLANT FACTOR:	0.50		
YEAR 2 REDUCTION AMOUNT:	-10% OF YEAR 1 (ESTABLISHMENT) RUN TIME MINUTES		

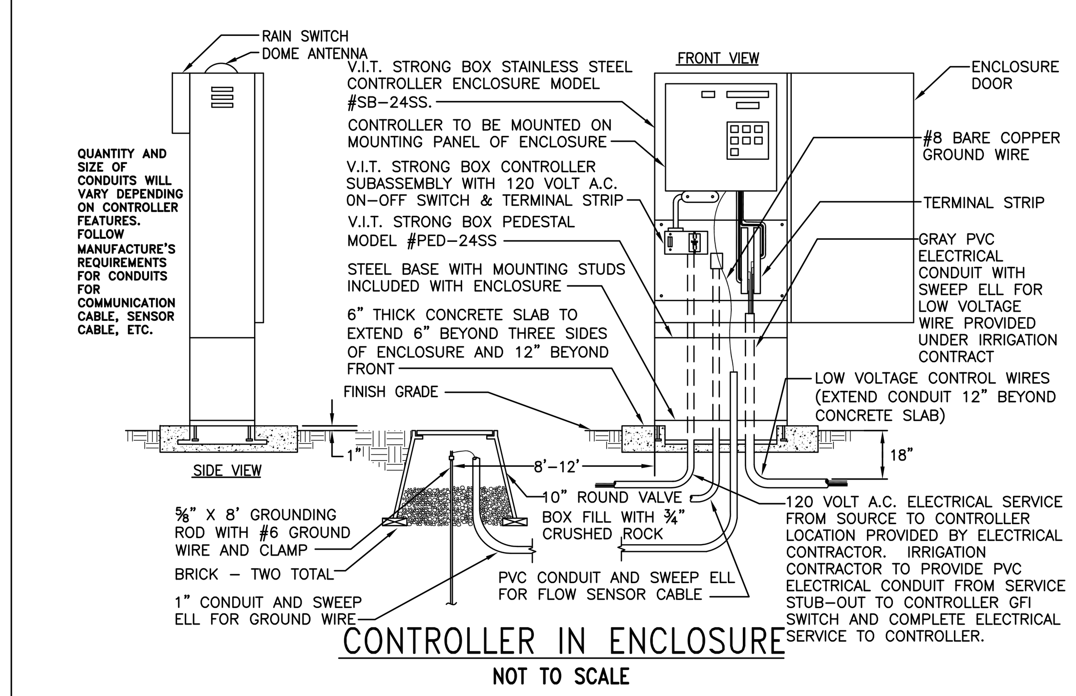
MONTH:		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
ETO PER MONTH (INCHES):		1.50	1.80	2.80	3.80	5.20	5.30	6.20	5.60	5.00	3.20	1.70	1.00	43.00
ETO PER WEEK (INCHES):		0.346	0.416	0.647	0.878	1.201	1.224	1.432	1.293	1.155	0.739	0.393	0.231	
APPLIED ETO PER WEEK (INCHES):		0.217	0.260	0.404	0.548	0.751	0.765	0.895	0.808	0.722	0.462	0.245	0.144	
MINUTES OF WATER PER WEEK:	YEAR 1	9	10	16	22	30	31	36	32	29	18	10	6	
	YEAR 2	8	9	15	20	27	28	32	29	26	17	9	5	
DAYS PER WEEK:	YEAR 1	1	1	1	1	1	2	2	2	1	1	1	1	
	YEAR 2	1	1	1	1	1	2	2	2	1	1	1	1	
MINUTES OF WATER PER DAY:	YEAR 1	9	10	16	22	30	15	18	16	29	18	10	6	
	YEAR 2	8	9	15	20	27	14	16	15	26	17	9	5	
CYCLES PER DAY:	YEAR 1	1	1	1	1	1	1	1	1	1	1	1	1	
	YEAR 2	1	1	1	1	1	1	1	1	1	1	1	1	
MINUTES PER CYCLE:	YEAR 1	9	10	16	22	30	15	18	16	29	18	10	6	
	YEAR 2	8	9	15	20	27	14	16	15	26	17	9	5	

NOTES:

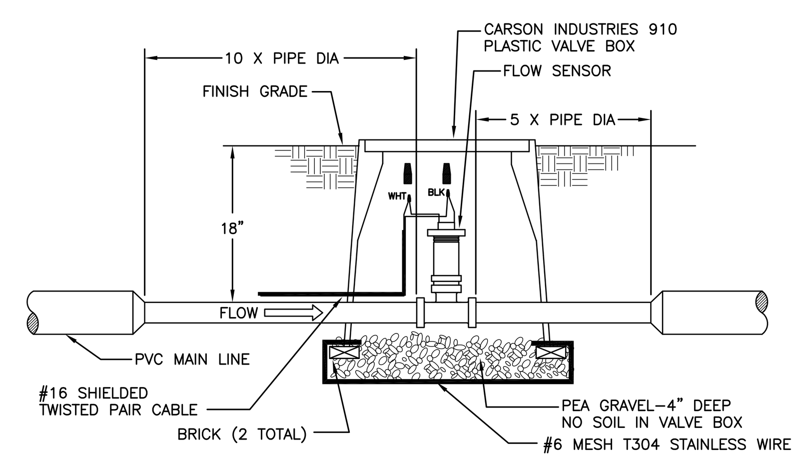
THE CHARTS ARE INTENDED TO BE USED AS A GUIDELINE ONLY AND INDICATE APPROXIMATE RUN TIMES (IN MINUTES) FOR EACH ZONE BASED ON ESTIMATED WEEKLY WATER REQUIREMENTS FOR ESTABLISHED PLANT MATERIAL. THE FIGURES SHOWN IN THIS SCHEDULE ARE APPROXIMATE AND HAVE BEEN DEVELOPED FROM LOCAL CURRENT AVERAGES FOR EVAPOTRANSPIRATION, AND REFLECT MAXIMUM IRRIGATION REQUIREMENTS OF THE PLANT MATERIAL BASED ON PLANT TYPE AND SPACING. ACTUAL RUN TIMES MAY BE DIFFERENT DEPENDING ON A VARIETY OF FACTORS INCLUDING TOPOGRAPHY, SOIL STRUCTURE, SUN AND WIND EXPOSURE, WEATHER, ACTUAL PLANT WATER REQUIREMENTS, ETC.



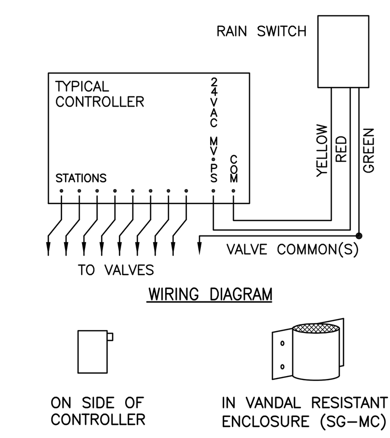
4 MASTER CONTROL VALVE — NOT TO SCALE



1 WEATHERTRAK CONTROLLER IN ENCLOSURE — NOT TO SCALE



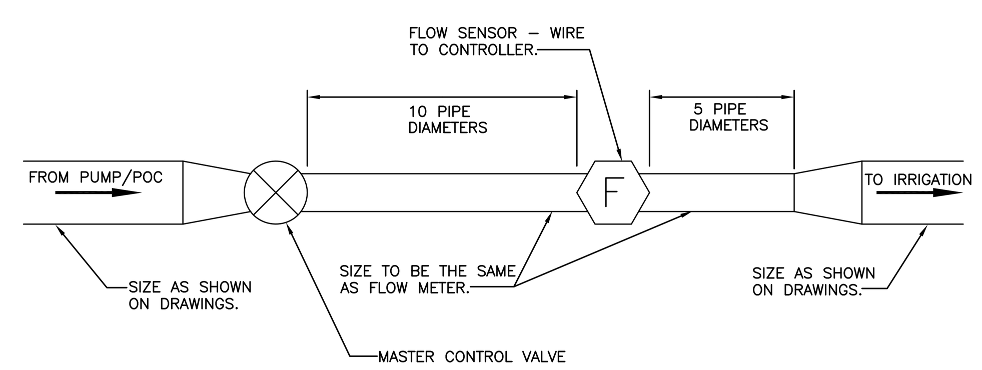
5 FLOW SENSOR INSTALLATION — NOT TO SCALE



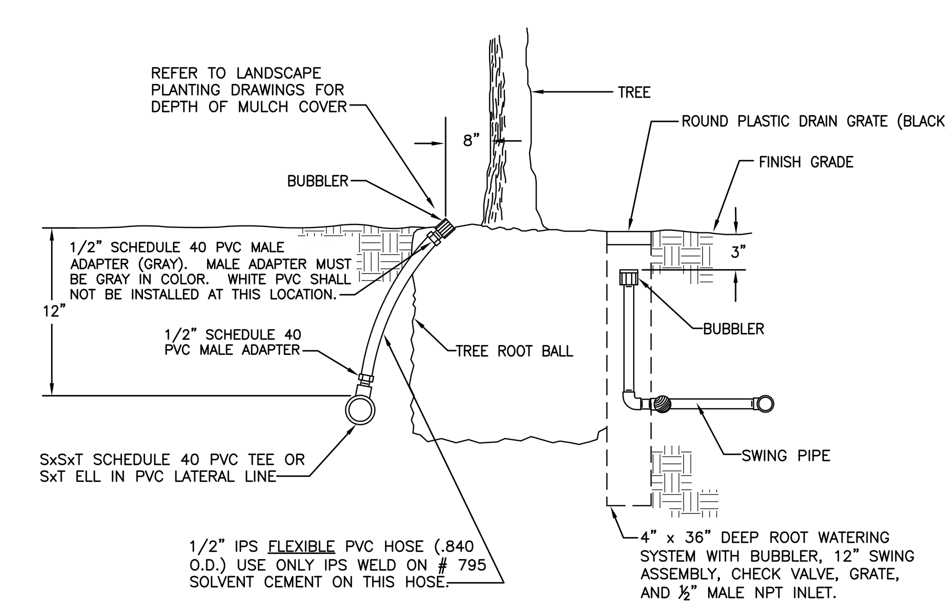
NOTES:

1. CONNECT TO CONTROLLER AS SHOWN.

2 RAIN SWITCH INSTALLATION — NOT TO SCALE



6 MASTER VALVE / FLOW SENSOR — NOT TO SCALE



3 TREE BUBBLER — NOT TO SCALE

GENERAL NOTES

KEY NOTES

LEGEND

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Revisions	Date
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CONSULTANTS:

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Houston ■ Los Angeles ■ Mumbai ■ New York ■ Phoenix
St. Louis ■ San Francisco ■ Shanghai ■ Toronto
Vancouver ■ Victoria ■ Washington DC

Drawing Title: IRRIGATION DETAILS & SCHEDULES
Approved: Project Director

Project Title: VA SIMULATION CENTER

Location: Veterans Affairs Palo Alto Heath Care System, 3801 Miranda Ave,Palo Alto, CA 94304

Date	Checked	Drawn
JUNE 14, 2013	RA	RA/SK

VA Project Number: 640-385
Building Number: 105
Drawing No. L0404

VA PAHCS — Veterans Affairs Palo Alto Health Care System
Department of Veterans Affairs

GENERAL NOTES:

I. GENERAL

1. MATERIALS AND WORKMANSHIP TO CONFORM WITH THE 2012 EDITION OF THE INTERNATIONAL BUILDING CODE, WITH TITLE 24 AND THE REQUIREMENTS OF THE CONTRACT DOCUMENTS.
2. THESE GENERAL NOTES SUPPLEMENT THE REQUIREMENTS OF THE PROJECT SPECIFICATIONS. IN CASE OF CONFLICT BETWEEN THE PLANS AND SPECIFICATIONS, CONTACT THE VA COR.
3. VERIFY ALL DIMENSIONS, ELEVATIONS AND SITE CONDITIONS BEFORE STARTING WORK. NOTIFY THE VA COR OF DISCREPANCIES.
4. REFER TO ARCHITECTURAL AND CIVIL DRAWINGS FOR SITE SLABS AND WALLS.
5. DRAWINGS INDICATE GENERAL AND TYPICAL DETAILS OF CONSTRUCTION. WHERE CONDITIONS ARE NOT SPECIFICALLY INDICATED BUT ARE OF SIMILAR CHARACTER TO DETAILS SHOWN, USE SIMILAR DETAILS OF CONSTRUCTION, SUBJECT TO REVIEW BY THE VA COR.
6. DETAILS ON SHEETS TITLED "TYPICAL DETAILS" APPLY TO SITUATIONS OCCURRING ON THE PROJECT THAT ARE THE SAME OR SIMILAR TO THOSE SPECIFICALLY REFERENCED. SUCH DETAILS ARE NOT NOTED AT EACH LOCATION THAT THEY OCCUR.
7. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING THE WORK OF ALL TRADES AND FOR CHECKING DIMENSIONS. NOTIFY THE RESIDENT ENGINEER OF ANY DISCREPANCIES AND RESOLVE BEFORE PROCEEDING WITH THE WORK.
8. DO NOT SCALE THE DRAWINGS.
9. INFORMATION SHOWN ON THE DRAWINGS RELATED TO EXISTING CONDITIONS REPRESENTS THE PRESENT KNOWLEDGE, BUT WITHOUT GUARANTEE OF ACCURACY. REPORT CONDITIONS THAT CONFLICT WITH THE CONTRACT DOCUMENTS TO THE ARCHITECT. DO NOT DEVIATE FROM THE CONTRACT DOCUMENTS WITHOUT WRITTEN DIRECTION FROM THE VA COR.
10. REFER TO ARCHITECTURAL DRAWINGS FOR EDGE OF SLAB DIMENSIONS OF FLOOR AND ROOF OPENINGS. COORDINATE THE SIZE AND LOCATION OF OPENINGS ASSOCIATED WITH, BUT NOT LIMITED TO, ELECTRICAL, MECHANICAL AND PLUMBING TRADES. SUBMIT FINAL SIZING AND LOCATION REQUIREMENTS OF OPENINGS TO THE ARCHITECT FOR REVIEW.
11. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR PROVIDING A SAFE PLACE TO WORK AND MEETING THE REQUIREMENTS OF ALL APPLICABLE JURISDICTIONS. EXECUTE WORK TO ENSURE THE SAFETY OF PERSONS AND ADJACENT PROPERTY AGAINST DAMAGE BY HAZARDS IN CONNECTION WITH THIS WORK.
12. SEE ARCHITECTURAL DRAWING FOR SEISMIC JOINT COVERS. SEE DETAIL 8/S1402 AND PLANS FOR REQUIRED JOINT MOVEMENT.
13. SEE ARCHITECTURAL DRAWINGS FOR EDGE OF SLAB DIMENSIONS.

II. CONSTRUCTION MEANS AND METHODS ENGINEERING (SHORING)

1. CONTRACTOR TO PROVIDE MEASURES NECESSARY TO PROTECT THE STRUCTURE DURING CONSTRUCTION. SUCH MEASURES INCLUDE BUT ARE NOT LIMITED TO BRACING, UNDERPINNING, AND SHORING FOR LOADS DURING CONSTRUCTION. RETAIN CALIFORNIA REGISTERED CIVIL ENGINEER WHOM IS PROPERLY QUALIFIED TO DESIGN BRACING, SHORING, ETC.
2. MAINTAIN EXISTING GRADE A MINIMUM OF 20 FEET FROM THE EDGE OF EXISTING BUILDING FOUNDATIONS BEFORE STARTING EXCAVATIONS. EXCAVATION TO HAVE A MAX SLOPE OF 2H:1V.
3. VISITS TO THE SITE BY THE STRUCTURAL ENGINEER OF RECORD WILL NOT INCLUDE OBSERVATION OF THE CONSTRUCTION MEANS AND METHODS SHORING.

III. FOUNDATION AND SITE WORK

1. THE DESIGN OF THE FOUNDATION SYSTEM IS BASED UPON THE CRITERIA AND RECOMMENDATIONS CONTAINED IN THE GEOTECHNICAL INVESTIGATION REPORT ENTITLED GEOTECHNICAL STUDY, PATIENT SIMULATION CENTER VETERANS AFFAIRS PALO ALTO HEALTHCARE SYSTEM, PALO ALTO, CA.
2. GROUNDWATER ELEVATION IS ESTIMATED IN THE GEOTECHNICAL REPORT. PROVIDE SITE DE-WATERING AS REQUIRED.
3. LOCATE AND PROTECT EXISTING UTILITIES TO REMAIN DURING AND/OR AFTER CONSTRUCTION.
4. REMOVE ABANDONED FOOTINGS, UTILITIES, ETC. WHICH INTERFERE WITH NEW CONSTRUCTION, UNLESS OTHERWISE INDICATED.
5. NOTIFY THE RESIDENT ENGINEER IF ANY BURIED STRUCTURES NOT INDICATED ARE FOUND.
6. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR EXCAVATION PROCEDURES INCLUDING LAGGING, SHORING, UNDERPINNING AND PROTECTION OF EXISTING CONSTRUCTION.
7. REMOVE LOOSE SOIL AND STANDING WATER FROM FOUNDATION EXCAVATIONS PRIOR TO PLACING CONCRETE.
8. EXCAVATIONS FOR FOUNDATIONS MUST BE ACCEPTED BY THE GEOTECHNICAL ENGINEER AND THE VA COR PRIOR TO PLACING REINFORCING AND CONCRETE. NOTIFY THE VA'S GEOTECHNICAL ENGINEER WHEN EXCAVATIONS ARE READY FOR INSPECTION.
9. FOUNDATIONS ARE TO BEAR ON COMPETENT SOILS. UNDOCUMENTED FILL OF UP TO 9' NOTED IN THE GEOTECH REPORT ARE TO BE REMOVED AND REPLACED W/ ENGINEERED FILL OR LEAN CONCRETE.
10. PLACE BACKFILL BEHIND RETAINING WALLS AFTER CONCRETE HAS ATTAINED FULL DESIGN STRENGTH. BRACE BUILDING AND PIT WALLS BELOW GRADE FROM LATERAL LOADS UNTIL ATTACHED FLOORS AND SLABS ON GRADE ARE COMPLETE AND HAVE ATTAINED FULL DESIGN STRENGTH.
11. MECHANICALLY COMPACT EXCAVATION BACKFILLS IN LAYERS PER THE SPECIFICATIONS.

IV. FORMWORK

1. PROVIDE POUR POCKETS IN FORMS AND UNDER EXISTING STRUCTURAL MEMBERS AS REQUIRED TO PREVENT AIR POCKETS AND/OR 'HONEYCOMB' UNDER OR AROUND THE EXISTING MEMBERS. CONCRETE CAST WITH AIR POCKETS AND/OR 'HONEYCOMB' UNDER OR AROUND THE MEMBERS IS NOT ACCEPTABLE.
2. REMOVE FORMS AND SHORES IN ACCORDANCE WITH THE FOLLOWING:

LOCATION	REMOVE FORMS AND SHORES NO SOONER THAN
BOTTOM FORMS AND SHORES FOR MILDLY REINFORCED SLABS, BEAMS AND GIRDERS	3 DAYS AND MIN. 75% F'c
SIDE FORM FOR BEAMS AND GIRDERS	24 HOURS
COLUMNS AND WALLS	24 HOURS
FOOTINGS, PILE CAPS, AND GRADE BEAMS	24 HOURS

3. PROVIDE CURING WHERE FORMS ARE REMOVED IN LESS THAN 7 DAYS, INCLUDING BUT NOT LIMITED TO WALLS, COLUMNS, AND UNDERSIDE OF ELEVATED SLABS.

V. REINFORCING STEEL

1. REINFORCING TO CONFORM TO THE FOLLOWING, UNLESS OTHERWISE NOTED:

LOCATION	TYPE
ALL REINFORCING STEEL IN SUSPENDED SLAB, WALLS, FOUNDATIONS, AND ALL REINFORCEMENT. REINFORCING STEEL #8 AND LARGER.	ASTM A706, 60 KSI
REINFORCING STEEL #7 AND SMALLER OR IN SLABS ON GRADE, HOUSEKEEPING PADS OR CURBS.	ASTM A615, 60 KSI
WELDED STEEL WIRE FABRIC	ASTM A185, 70 KSI
SMOOTH DOWELS IN SLAB ON GRADE	ASTM A36, 36 KSI

2. ACCURATELY POSITION, SUPPORT, AND SECURE REINFORCEMENT FROM DISPLACING DUE TO FORMWORK, CONSTRUCTION, OR CONCRETE PLACEMENT OPERATIONS. LOCATE AND SUPPORT REINFORCING BY METAL CHAIRS, RUNNERS, BOLSTERS, SPACERS, OR HANGERS
3. MECHANICALCOUPLERS: TYPE 2, SEE SPECS FOR ADDITIONAL INFORMATION.
4. WELD REINFORCING STEEL ONLY WHERE NOTED AND IN ACCORDANCE WITH AWS D1.4 USING QUALIFIED WELDERS.
5. TERMINATE REINFORCING STEEL IN STANDARD HOOKS, UNLESS OTHERWISE SHOWN.
6. PROVIDE REINFORCING SHOWN OR NOTED CONTINUOUS IN LENGTHS AS LONG AS PRACTICABLE.
7. PROVIDE RENFORCING BAR DOWELS IN FOOTINGS AND OTHER SUPPORTING MEMBERS OF THE SAME SIZE AND SPACING AS VERTICAL REINFORCING, U.O.N. LAP SPLICE AS INDICATED ON TYPCAL DETAILS.

VI. CAST-IN-PLACE CONCRETE

1. CONCRETE IS REINFORCED AND CAST-IN-PLACE UNLESS OTHERWISE NOTED. WHERE REINFORCING IS NOT SPECIFICALLY SHOWN OR WHERE DETAILS ARE NOT GIVEN, PROVIDE REINFORCING SIMILAR TO THAT SHOWN FOR SIMILAR CONDITIONS, SUBJECT TO REVIEW BY THE VA COR.
2. ROUGHEN CONCRETE SURFACES OF CONSTRUCTION JOINTS TO ¼ INCH AMPLITUDE AND CLEAN OF LAITANCE, FOREIGN MATTER, AND LOOSE PARTICLES. SUBMIT JOINT LOCATIONS OR JOINTS NOT SHOWN TO THE VA COR FOR REVIEW AND APPROVAL PRIOR TO PROCEEDING WITH THE WORK.
3. AT LOCATIONS WHERE CONCRETE IS CAST AGAINST EXISTING CONCRETE, ROUGHEN CONTACT SURFACES TO ¼ INCH AMPLITUDE AND CLEAN OF LAITANCE, FOREIGN MATTER, AND LOOSE PARTICLES.
4. REFER TO ARCHITECTURAL AND MECHANICAL DRAWINGS FOR LOCATIONS OF ADDITIONAL CONCRETE CURBS AND HOUSEKEEPING PADS NOT SHOWN.
5. CONCRETE CLEAR COVER TO REINFORCING BARS IS AS FOLLOWS, UNLESS OTHERWISE NOTED:

LOCATION	CLEAR COVER
CONCRETE PLACED AGAINST EARTH	3 INCHES
FORMED SURFACES EXPOSED TO WEATHER OR IN CONTACT WITH EARTH: #6 BARS AND LARGER #5 BARS AND SMALLER	 2 INCHES 1 ½ INCHES
SLABS ON GRADE (TOP CLEARANCE)	1 ½ INCHES
BEAMS, GIRDERS AND COLUMNS NOT EXPOSED TO WEATHER OR EARTH	1 ½ INCHES
WALL OR SLAB SURFACES NOT EXPOSED TO WEATHER OR EARTH: #5 & SMALLER #6 & #7 #8,#9, #10 & #11 #14 & #18	 ¾ INCH 1 INCH 1 ½ INCHES 2 ½ INCHES

6. CONCRETE TYPES:

CLASS	28-DAY STRENGTH	TYPE	LOCATION	CEMENT	MAX W/C	MAX AGGR
A	4000 PSI	NWC	GRADE BEAMS, FOUNDATIONS,	I-II	0.45	SIZE 467
B	4000 PSI	NWC	SLABS ON GRADE, PADS, CURBS MISC.	I-II	0.45	SIZE 67
C	4000 PSI	LWC	FILL ON METAL DECK	I-II	0.55	SIZE 67

7. LIGHT WT CONC. MAX. DRY UNIT WT=115 PCF.
8. WATER REDUCING OR HIGH RANGE WATER REDUCING ADD MIXTURES SATISFYING ASTM C494 ARE ANTICIPATED.
9. NO AIR ENTRAINMENT IS ANTICIPATED. FOR STRUCTURAL CONC.
10. CONTINUOUSLY MOIST CURE ARCHITECTURALLY EXPOSED CONCRETE SLABS IN PUBLIC SPACES FOR 7 DAYS MINIMUM. WATER FOG SPRAYS, PONDING, SATURATED ABSORPTIVE COVERS, OR MOISTURE RETAINING COVERS MAY BE USED. CURING COMPOUNDS ARE ACCEPTABLE AT NON-ARCHITECTURALLY EXPOSED SLABS.
11. CONCRETE FILL THICKNESS SHOWN ON THE FRAMING PLANS ARE MINIMAL THICKNESSES. NO ALLOWANCES HAVE BEEN SHOWN FOR ADDITIONAL CONCRETE FILL REQUIRED TO COMPENSATE FOR FRAME, DECK, OR FORMWORK DEFLECTIONS TO MAINTAIN SURFACE TOLERANCES.
12. NON-SHRINK GROUT, 7000 PSI MIN. @ 28 DAYS.
13. SEE SPECIFICATION SECTION 033000 FOR FLOOR FLATNESS REQUIREMENTS.

VII. STRUCTURAL STEEL

1. STRUCTURAL STEEL TO CONFORM TO THE FOLLOWING UNLESS OTHERWISE NOTED:

SECTIONS	TYPE
ROLLED SHAPES WIDE FLANGES CHANNELS, ANGLES, & OTHER	 ASTM A992, GR 50 ASTM A36
PLATES COLUMN BASE PLATES BEAM COVERSIDE PLATES BEAM SHEAR PLATES COLUMN CONTINUITY PLATES BEAM STIFFENER PLATES OTHER, U.O.N.	 ASTM A572, GR 50 ASTM A36 ASTM A36 ASTM A572, GR 50 ASTM A36 ASTM A572, GR 50
STEEL PIPE	ASTM A53 GRADE B
COLD FORMED HOLLOW STRUCTURAL SECTION (HSS)	ASTM A500 GRADE B
STAINLESS STEEL SHAPES, PLATES AND BARS	ASTM A276
BOLTS	ASTM 325X
MACHINE BOLTS	ASTM A307
ANCHOR BOLTS AND RODS	ASTM F1554 GR 55 U.O.N.
THREADED AND HANGER ROD	ASTM A307 OR A36
WELDED SHEAR CONNECTORS	ASTM A108, GRADE 1015 THROUGH 1020
NUTS FOR BOLTS AND MACHINE BOLTS	ASTM A563
HARDENED WASHERS	ASTM F436
UNHARDENED WASHERS	ASTM F844
PLAIN WASHERS	ANSI B18.22.1
BEVELED WASHERS	ANSI B18.23.1

2. HOT DIP GALVANIZE IN ACCORDANCE WITH ASTM A123 AND ASTM A153 STRUCTURAL STEEL AND FASTENERS THAT ARE PERMANENTLY EXPOSED TO THE WEATHER. REPAIR GALVANIZING AFTER WELDING IN ACCORDANCE WITH ASTM A780.
3. ARC-WELDING ELECTRODES/FILLER METALS TO BE LOW HYDROGEN TYPES E7XTX, E7XTXX OR E70XXX MINIMUM AS APPLICABLE.
4. WELDERS TO BE CERTIFIED BY AWS AND THE GOVERNING JURISDICTION.
5. WHERE FIELD WELDING IS NOTED, THE DESIGNATION IS GIVEN AS A SUGGESTED CONSTRUCTION PROCEDURE ONLY.
6. PROVIDE NATURAL CAMBER UP, UNLESS NOTED OTHERWISE, EXCEPT AT CANTILEVERS. AT CANTILEVERS PROVIDE CAMBER SUCH THAT TIP OF CANTILEVER IS ABOVE FINAL ELEVATION.
7. SPLICE MEMBERS ONLY WHERE INDICATED.
8. DETAIL, FABRICATE AND ERECT IN ACCORDANCE WITH AISC "SPECIFICATION FOR STRUCTURAL STEEL FOR BUILDINGS".

VIII. METAL DECKING

1. METAL FLOOR AND ROOF DECK TO HAVE MINIMUM SECTION PROPERTIES SHOWN ON SHEET "TYPICAL METAL DECK DETAILS."
2. METAL DECK TO MEET ASTM A653
3. FLOOR AND ROOF DECK TO BE GALVANIZED IN ACCORDANCE WITH ASTM A653 COATING CLASS G60. REPAIR DAMAGED COATING.
4. WHERE POSSIBLE, LAYOUT METAL DECK TO SPAN AT LEAST THREE SPANS CONTINUOUSLY. TERMINATE ENDS OVER SUPPORTS EXCEPT AT OPENINGS OR BUILDING EDGES WHERE METAL DECKS MAY BE CANTILEVERED AS SHOWN.
5. PROVIDE MINIMUM STUDS SHOWN IN 9/S1601 U.O.N.
6. SEE SPECIFICATION SECTION 033000 FOR FLOOR FLATNESS REQUIREMENTS.

IX. MECHANICAL AND ADHESIVE ANCHORS

1. ALL MECHANICAL ANCHORS ARE TO HAVE ICC APPROVAL FOR USE IN CRACKED CONCRETE UNDER SEISMIC LOADS.
2. EXPANSION ANCHORS: HILTI KB-TZ (ICC ESR-1917), ITW REDHEAD TRUBOLT+ (ICC ESR-2427), POWERS POWER-STUD+ (ICC ESR-2502), OR SIMPSON STRONG BOLT 2 (ICC ESR-3037).
3. CONCRETE SCREW ANCHORS: POWERS WEDGE-BOLT (ICC ESR-2526), OR SIMPSON TITEN HD (ICC ESR-2713).
4. ADHESIVE ANCHORS: HILTI HIT RE-500-SD (ICC ESR-2322), POWERS PE1000+ (ICC ESR-2583), OR SIMPSON SET-XP (ICC ESR-2508)
5. INSTALL ANCHORS IN ACCORDANCE WITH THE LATEST ICC-ESR REPORT.
6. PROVIDE STAINLESS STEEL FASTENERS FOR EXTERIOR USE OR WHEN PERMANENTLY EXPOSED TO WEATHER. PROVIDE GALVANIZED CARBON STEEL ANCHORS AT OTHER LOCATIONS, UNLESS OTHERWISE NOTED.
7. ADHESIVE ANCHORS SHALL BE ASTM A36 THREADED RODS. REINFORCING DOWELS SHALL BE ASTM A615 GRADE 60 REINFORCING STEEL. UNLESS OTHERWISE NOTED.
8. EXPANSION AND SCREW ANCHOR MINIMUM EMBEDMENTS AND TEST LOADS IN CONCRETE, UNLESS OTHERWISE NOTED:

ANCHOR DIA. (SIZE)	MIN EMBED (INCH)	WEDGE LOAD (LBS.)	TORQUE (FT-LBS.)
1/4"	2"	800	10
3/8"	2 ½"	1100	25
1/2" *	2 ½"	2000	50
5/8" *	3 ½"	2300	80
3/4"	4 ½"	3700	150

* MINIMUM EMBEDMENT MUST BE INCREASED FOR SIMPSON TITEN HD ANCHOR. USE 3 1/4" FOR 1/2" DIAMETER AND 5 1/2" FOR 5/8" DIAMETER SCREWS.

9. ADHESIVE ANCHOR MINIMUM EMBEDMENT DEPTH AND TEST LOADS IN CONCRETE, UNLESS OTHERWISE NOTED:

ANCHOR/BAR SIZE	MIN. EMBEDMENT	TENSION LOAD
3/8"	4"	3,000 LBS.
1/2"	5"	6,000 LBS.
5/8"	6"	8,000 LBS.
3/4"	7"	12,000 LBS.
7/8"	9"	15,000 LBS.
NO. 3	4"	3,000 LBS.
NO. 4	5"	6,000 LBS.
NO. 5	6"	8,000 LBS.
NO. 6	7"	12,000 LBS.
NO. 7	9"	15,000 LBS.

10. TEST ANCHORS PER 130541 AND THESE NOTES.
11. TEST EQUIPMENT IS TO BE CALIBRATED BY AN APPROVED TESTING LABORATORY IN ACCORDANCE WITH STANDARD RECOGNIZED PROCEDURES.
12. REACTION LOADS FROM TEST FIXTURES MAY BE APPLIED CLOSE TO THE ANCHOR BEING TESTED PROVIDED THE ANCHOR IS NOT RESTRAINED FROM WITHDRAWING.
13. TEST QUANTITY OF EXPANSION AND ADHESIVE ANCHORS FOR EACH SIZE AND TYPE AS NOTED BELOW:

APPLICATION	QUANTITY
ADHESIVE, EXPANSION, AND SCREW ANCHORS	10%
ADHESIVE, EXPANSION, AND SCREW ANCHORS AFTER TEST FAILURE OF ONE ANCHOR	100% OF 20 PREVIOUS

14. APPLY THE TEST LOAD TO EXPANSION ANCHORS PER EITHER THE HYDRAULIC RAM METHOD OR THE TORQUE WRENCH METHOD. APPLY THE TEST LOAD TO SCREW ANCHORS PER THE TORQUE WRENCH METHOD APPLY THE TEST LOAD TO ADHESIVE ANCHORS PER THE HYDRAULIC RAM METHOD.
15. THE FOLLOWING CRITERIA APPLY FOR THE TESTING AND ACCEPTANCE OF INSTALLED ANCHORS:
    A. HYDRAULIC RAM METHOD: MAINTAIN THE TEST LOAD FOR A MINIMUM OF 15 SECONDS AND EXHIBIT NO DISCERNABLE MOVEMENT DURING THE TENSION TEST, E.G.AS EVIDENCED BY LOOSENING OF THE WASHER UNDER THE NUT.
    B. TORQUE WRENCH METHOD: ATTAIN THE SPECIFIED TORQUE WITHIN 1/2 TURN OF THE NUT.

X. STRUCTURAL TESTS, INSPECTIONS, AND OBSERVATIONS

1. AN INDEPENDENT TESTING AGENCY AND SPECIAL INSPECTORS WILL BE RETAINED BY THE CONTRACTOR AND APPROVED BY THE VA TO PERFORM THE TESTS AND INSPECTION REQUIRED BY SPEC 014529. PROVIDE ACCESS AND FURNISH SAMPLES TO THE AGENCY AS REQUIRED BY THE CONTRACT DOCUMENTS.
2. IF INITIAL TESTS OR INSPECTIONS MADE BY THE TESTING AGENCY REVEAL THAT ANY PORTION OF THE WORK DOES NOT COMPLY WITH THE CONTRACT DOCUMENTS, ADDITIONAL TESTS, INSPECTIONS, AND NECESSARY REPAIRS WILL BE MADE AT THE CONTRACTOR'S EXPENSE.

XI. DESIGN CRITERIA

1. APPLICABLE CODES / DESIGN STANDARDS:
   VA STRUCTURAL DESIGN MANUAL FOR HOSPITAL PROJECTS
   VA PROGRAM GUIDE PG-18-1, MASTER CONSTRUCTION SPECIFICATIONS
   VA PROGRAM GUIDE PG-18-3, DESIGN AND CONSTRUCTION PROCEDURES
   VA PROGRAM GUIDE PG-18-15, A/E/ SUBMISSION INSTRUCTIONS, VOLUME B
   VA HANDBOOK H-18-8, SEISMIC DESIGN REQUIREMENTS, FEBRUARY 2011
   DEPARTMENT OF DEFENSE 2010 UNIFIED FACILITIES CRITERIA (UFC)
   2009 IBC
   ASCE 7-05 MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES
   2005 AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC) SPECIFICATION STEEL BUILDINGS
   2005 AMERICAN INSTITUE OF STEEL CONSTRUCTION (AISC) SEISMIC PROVISIONS
   2005 AMERICAN CONCRETE INSTITUTE (ACI) 318
2. FOUNDATIONS HAVE BEEN DESIGNED WITH THE FOLLOWING CRITERIA:
   SPREAD FOOTINGS:
   ALLOWABLE NET SOIL PRESSURE FOR DL + LL = 3000 PSF
   ALLOWABLE NET SOIL PRESSURE FOR DL + LL + EQ = 4000 PSF
3. GRAVITY LOADS:
   A. DEAD LOADS - VARY BASED ON ACTUAL BUILDING AND EQUIPMENT OPERATING WEIGHTS
   B. LIVE LOADS:
      FLOOR 100 PSF
      ROOF 20 PSF
   C. LIVE LOAD DEFLECTION
      TYPICAL INTERIOR L/360
      PERIMETER L/360
4. SNOW LOADS = 0 PSF
5. FLOOD LOADS = 0 LBS
6. SEISMIC DESIGN: RESPONSE SPECTRUM
   WHERE:R = 6.0 FOR SCBF
   I = 1.0
   SS = 1.959
   S1 = 0.795
   SDS = 1.31
   SD1 = 0.800
   SITE CLASS = D
   OCCUPANCY CATEGORY = II
   SEISMIC DESIGN CATEGORY = E
   INELASTIC INTERSTORY DRIFT = 1 1/2".
7. WIND DESIGN:
   BASIC WIND SPEED = 85 MPH
   WIND EXPOSURE = B
   I = 1.0
8. VIBRATION DESIGN CRITERIA:
   AISC DESIGN GUIDE II
   ACCELERATION LIMIT = 0.5% G
9. PROGRESSIVE COLLAPSE PREVENTION
   TIE-FORCE METHOD.
10. NON-STRUCTURAL ELEMENTS, EQUIPMENT, AND UTILITY LINES SUPPORTED BY STRUCTURAL FRAMING ARE TO BE CONCENTRICALLY CONNECTED TO THE FRAMING MEMBERS. BRACING TO THE BOTTOM 2/3 OF BEAMS IS PROHIBITED.
11. EQUIPMENT, ARCHITECTURAL ELEMENTS, AND DISTRIBUTION SYSTEMS ARE TO BE ANCHORED AND BRACED PER SPECIFICATION 130541.
12. ART INSTALLTION IN ATRIUM SPACE PER 5/S0303 AND SPEC 130541.
13. DESIGN TEAM

JAMES O MALLEY	SENIOR PRINCIPAL
ROBERT GRAFF	PROJECT MANAGER
ANDREW MA	DESIGNER
KEN MARTIN	SENIOR CAD SPECIALIST
MIGUEL MARASIGAN	SENIOR CAD SPECIALIST

ISSUE FOR BID

Revisions	Date
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Seals and Signatures

REGISTERED PROFESSIONAL ENGINEER ROBERT M. GRAFF No. 5113 Exp. 6/30/13 STRUCTURAL STATE OF CALIFORNIA

ARCHITECT/ENGINEERS:

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Houston ■ Los Angeles ■ Mumbai ■ New York ■ Phoenix
St. Louis ■ San Francisco ■ Shanghai ■ Toronto
Vancouver ■ Victoria ■ Washington DC

Drawing Title: GENERAL NOTES

Approved: Project Director: JM

Project Title: VA SIMULATION CENTER

Location: Veterans Affairs Palo Alto Heath Care System, 3801 Miranda Ave,Palo Alto, CA 94304

Date: JUNE 14, 2013 | Checked: RMG | Drawn: KLM

VA Project Number: 640-385

Building Number: 105

Drawing No. SS001

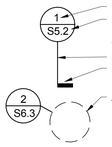
VA PAHCS Veterans Affairs Palo Alto Health Care System

Department of Veterans Affairs

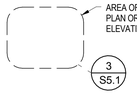
REFERENCE SYMBOLS

DETAIL/SECTION

DETAIL

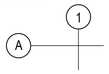


DETAIL PLAN OR ELEVATION

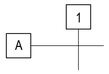


SINGLE ELEVATION

GRID LINES

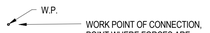


EXISTING BUILDING GRID LINES

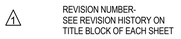


LEVEL LINE

WORK POINT



REVISION



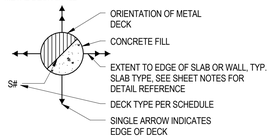
KEY NOTE

CENTER POINT OF CURVE

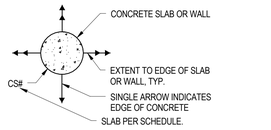
REFERENCED ELEVATION

PLAN SYMBOLS

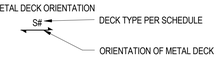
METAL DECK & FILL



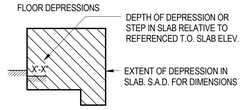
CONCRETE FILL



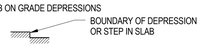
METAL DECK ORIENTATION



FLOOR DEPRESSIONS

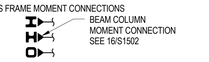


SLAB ON GRADE DEPRESSIONS

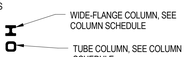


SHEAR CONNECTIONS

SLRS FRAME MOMENT CONNECTIONS



COLUMNS



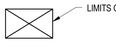
BEAM-BEAM MOMENT CONNECTION

FULL-DEPTH BRACING CONNECTION SINGLE ROW

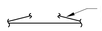
FULL-DEPTH BRACING CONNECTION DOUBLE ROW

BEAM PENETRATIONS

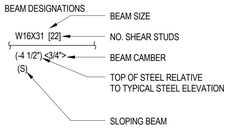
SLAB OPENING



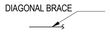
BRACED FRAME



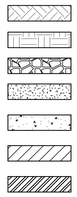
BEAM DESIGNATIONS



DIAGONAL BRACE



MATERIAL SYMBOLS



ABBREVIATIONS

CL.	CENTERLINE
PL.	PLATE
(E)	EXISTING
(N)	NEW
#	NUMBER
&	AND
@	AT
A.A.	ADHESIVE ANCHOR
A.B.	ANCHOR BOLT
ABV	ABOVE
ADDL	ADDITIONAL
ADJ.	ADJACENT
AGGR.	AGGREGATE
AL.	ALUMINUM
ALT.	ALTERNATE
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE
APPROX.	APPROXIMATE
A.R.	ANCHOR RODS
ARCH.	ARCHITECTURAL
ASTM	AMERICAN SOCIETY for TESTING and MATERIALS
AWG	AMERICAN WIRE GAUGE
BET.	BETWEEN
BLDG	BUILDING
BLKG	BLOCKING
BM. BMS	BEAM. BEAMS
B.N.	BOUNDARY NAILING
B.O.F.	BOTTOM OF FOOTING
BOT.	BOTTOM
BRG	BEARING
BSMT	BASEMENT
B.S.	BOTH SIDES
C	CHANNEL
C.I.P.	CAST IN PLACE
C.J.	CONTROL JOINT
CLG	CEILING
CLR	CLEAR
CMU	CONCRETE MASONRY UNIT
COL.	COLUMN
CONC.	CONCRETE
CONN.	CONNECTION
CONSTR.	CONSTRUCTION
CONT.	CONTINUOUS
CSK	COUNTERSINK
CP	COMPLETE PENETRATION
CTR	CENTER
DBA	DEFORMED BAR ANCHOR SEE 9/S-5101
DBL.	DOUBLE
DC	DEMAND CRITICAL WELD
DK. DKGDECK or DECKING	
DEMO.	DEMOLITION
DET., DETS	DETAIL, DETAILS
DIAG.	DIAGONAL
DIA. or Ø	DIAMETER
DIM., DIMS	DIMENSION, DIMENSIONS
DIST.	DISTANCE
DN	DOWN
D0	DITTO
DWL, DWLS	DOWEL, DOWELS
DWG, DWGS	DRAWING, DRAWINGS
EXP. ANCH.	EXPANSION ANCHOR
EA.	EACH
E.F.	EACH FACE
E.S.	EACH SIDE
E.W.	EACH WAY
ELEC.	ELECTRICAL
EL., ELEV.	ELEVATION
EMBED.	EMBEDMENT
E.N.	EDGE NAILING
E.O.P.	EDGE OF CONCRETE PANEL
E.O.S.	EDGE OF SLAB
EQ.	EQUAL
EQUIP.	EQUIPMENT
E.J.	EXPANSION JOINT
EV.	EVERY
EXCAV.	EXCAVATION
EXP.	EXPANSION
EXT.	EXTERIOR
F.F.	FAR FACE
FDN	FOUNDATION
FIN.	FINISH
FLR., FLRS	FLOOR, FLOORS
F.N.	FIELD NALING
F.O.	FACE OF
F.O.C.	FACE OF CONCRETE
F.O.P.	FACE OF CONCRETE PANEL
F.O.S.	FACE OF STUDS
FP.	FIREPROOFING
F.S.	FAR SIDE
FT	FOOT OR FEET
FTG, FTGS	FOOTING, FOOTINGS
GA.	GAUGE
GALV.	GALVANIZED
GL.	GLASS OR GLAZING
GRND	GROUND
GR.	GRADE
GYP. BD.	GYPSUM BOARD
H.D.	HOLD DOWN
H.D.G.	HOT DIPPED GALVANIZED
HDR	HEADER
H.P.	HIGH POINT
HSB	HIGH STRENGTH BOLTS
HSS	HOLLOW STRUCTURAL STEEL
HT	HEIGHT
HK, HKS	HOOKS
HORIZ., (H)	HORIZONTAL
I.D.	INSIDE DIAMETER
INFO.	INFORMATION
JST., JSTS	JOIST., JOISTS
JT	JOINT
K.O.	KNOCK-OUT
L.	ANGLE
LD	DEVELOPMENT-LENGTH
L.P.	LOW POINT
LEV.	LEVEL
LLV	LONG LEG VERTICAL
LLH	LONG LEG HORIZONTAL
LOC.	LOCATION
LONGIT.	LONGITUDINAL
LT.	LIGHT
ld	DEVELOPMENT LENGTH
ldb	HOOK DEVELOPMENT LENGTH
ls	LAP SPLICE LENGTH
LWC	LIGHTWEIGHT CONCRETE
MAX.	MAXIMUM
M.B.	MACHINE BOLT
MEZZ.	MEZZANINE
MECH.	MECHANICAL
M.E.P.	MECHANICAL, ELECTRICAL, PLUMBING DOCUMENTS
MTL	METAL
MFR	MANUFACTURER
MIN.	MINIMUM
MISC.	MISCELLANEOUS
MTD.	MOUNTED
N	NORTH
N.F.	NEAR FACE
N.I.C.	NOT IN CONTRACT
N.S.	NEAR SIDE
N.T.S.	NOT TO SCALE
NO. OR #	NUMBER
NOM.	NOMINAL (DIAMETER)
NWC	NORMAL WEIGHT CONCRETE
O.C.	ON CENTER
O.D.	OUTSIDE DIAMETER
O.H.	OPPOSITE HAND
OPNG	OPENING
OPP.	OPPOSITE
P#	STANDARD STEEL PIPE W/ # DIA.
PX#	X-STRONG STEEL PIPE W/ # DIA.
PXX#	XX-STRONG STEEL PIPE W/ DIA.
PANEL "_"	TILT-UP CONC. PANEL IDENTIFICATION
PC., PCS.	PIECE, PIECES
PERP.	PERPENDICULAR
P.J	TILT-UP CONC. PANEL JOINT
PLF	POUNDS PER LINEAR FOOT
PP	PARTIAL PENETRATION
P	PAIR
PT	POINT
PTN	PARTITION
R.O.	ROUGH OPENING
R or RAD.	RADIUS
REBAR	REINFORCING BAR
REF.	REFERENCE
REINF.	REINFORCED or REINFORCING
REQD.	REQUIRED
REV.	REVISE or REVISION
RFG	ROOFING
RSJ	ROLLED STEEL JOIST
S.A.D.	SEE ARCH DOCUMENTS
SCHED.	SCHEDULE
SECT.	SECTION
SHT	SHEET
SHTG	SHEATHING
SIM.	SIMILAR
SL.	SLOPE
SLRS	SEISMIC LOAD RESISTING SYSTEM (SEE 051200)
SMS	SHEET METAL SCREW
S.O.G.	SLAB ON GRADE
SPEC.	SPECIFICATION
SPECS.	SPECIFICATIONS
SQ.	SQUARE
SS	STAINLESS STEEL
STAGG.	STAGGER or STAGGERED
STD	STANDARD
STIFF.	STIFFENER
STIR.	STIRRUP or STIRRUPS
STL	STEEL
STRUC.	STRUCTURAL
SUBST.	SUBSTITUTE
SUSP.	SUSPENDED
SYM.	SYMMETRICAL
T&B	TOP and BOTTOM
T&G	TONGUE and GROOVE
THK	THICK
THRD	THREADED
THRU	THROUGH
T.O.	TOP OF
T.O.S.	TOP OF STEEL
T.O.SLAB	TOP OF STRUCTURAL SLAB
TR.	TREAD
TS	TUBE STEEL
TYP.	TYPICAL
U.O.N.	UNLESS OTHERWISE NOTED
URM	UNREINFORCED MASONRY
VENT.	VENTILATE
VERT., (V)	VERTICAL
V.I.F.	VERIFY IN FIELD
W or WF	WIDE FLANGE
W/	WITH
W/O	WITHOUT
WD	WOOD
W.P.	WORK POINT
WT	WEIGHT
WWM	WELDED WIRE MESH
X-HVY.	EXTRA HEAVY
XX-HVY.	DOUBLE EXTRA HEAVY
X STR.	EXTRA STRONG
XX STR.	DOUBLE EXTRA STRONG

ISSUE FOR BID

Revisions	Date
9	
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Seals and Signatures

REGISTERED PROFESSIONAL ENGINEER ROBERT M. GRAFF No. S113 Exp. 6/30/13 STRUCTURAL STATE OF CALIFORNIA

ARCHITECT/ENGINEERS:

CANNONDESIGN

201 Mission Street, Suite 2400, San Francisco, California 94105 415.243.4170

Baltimore ■ Boston ■ Buffalo ■ Calgary ■ Chicago
Houston ■ Los Angeles ■ Mumbai ■ New York ■ Phoenix
St. Louis ■ San Francisco ■ Shanghai ■ Toronto
Vancouver ■ Victoria ■ Washington DC

Drawing Title
SYMBOLS AND ABBREVIATIONS

Approved: Project Director
JM

Project Title
VA SIMULATION CENTER

Location
Veterans Affairs Palo Alto Heath Care System
3801 Miranda Ave,Palo Alto, CA 94304

Date
JUNE 14, 2013

Checked
RMG

Drawn
KLM

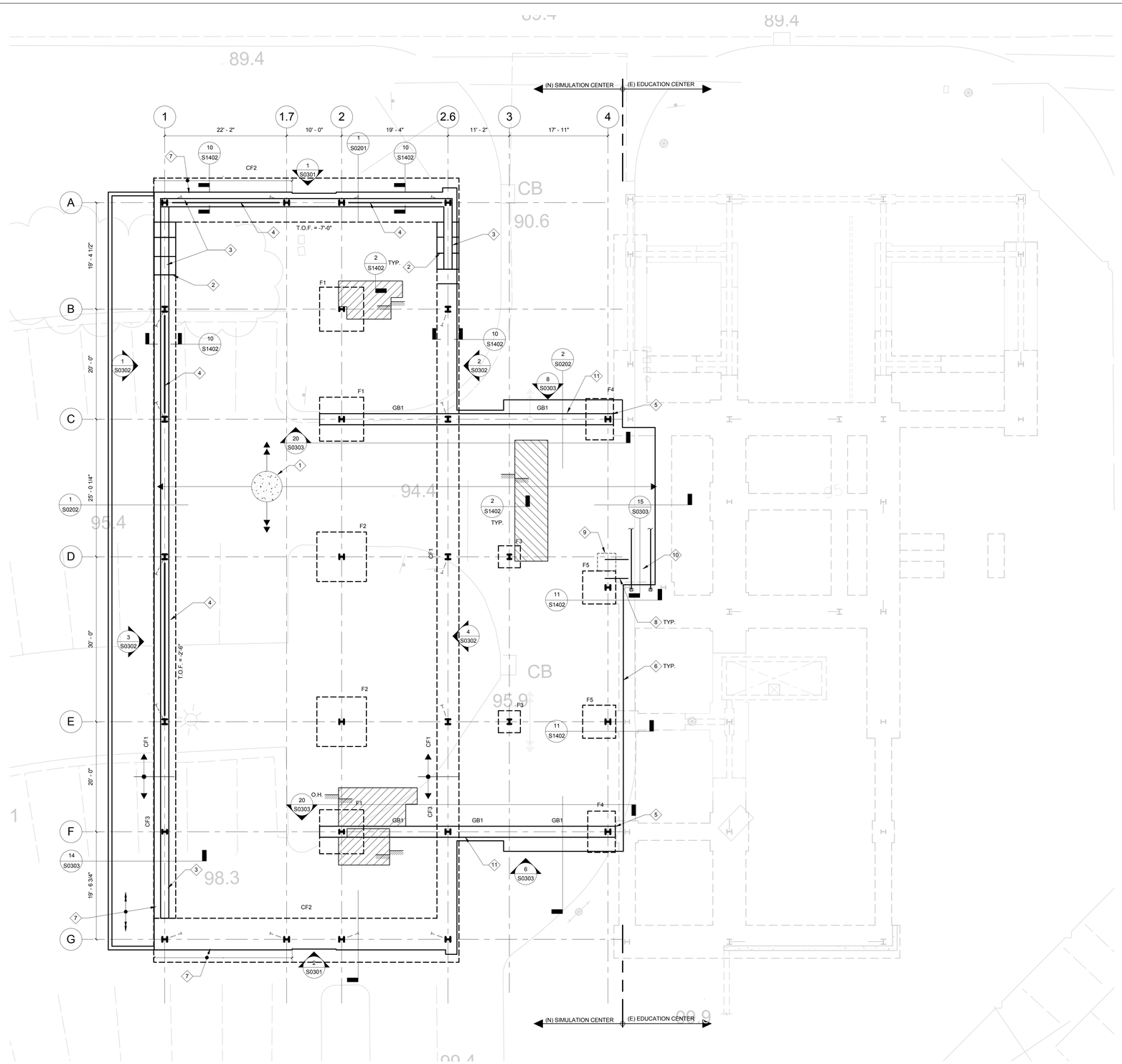
VA Project Number:
640-385

Building Number:
105

Drawing No.
SS002

VA PAHCS
Veterans Affairs
Palo Alto Health Care System

Department of Veterans Affairs



1 LEVEL 1 FOUNDATION PLAN
1/8" = 1'-0"

GENERAL NOTES

1. FINISHED FLOOR ELEV. 96.90'
2. TOP OF FND: -1'-6" U.O.N.
3. FND ELEV. ON PLAN REF. FROM TYP. TOP OF FDN.
4. SEE CIVIL DRAWINGS FOR SITE RETAINING WALL LOCATIONS. SEE 20/S1402 FOR WALL SECTION.
5. SEE GENERAL NOTES AND GEOTECHINICAL REPORT FOR REQ. TO PROVIDE ENGINEERED FILL OR LEAN CONC. UNDER FOUNDATIONS WHERE UNDOCUMENTED FILL IS ENCOUNTERED.

KEY NOTES

1. 5" S.O.G. W/ #4 @ 18"O.C. E.W.
2. STEP FOOTING DOWN FROM TYPICAL ELEV. TOWARD GRID 'A'.
3. 18" CONCRETE WALL BETWEEN FIRST FLOOR AND TOP OF FND. W/ #5 @ 12"O.C. E.W. E.F.
4. EMBEDDED 10"x3/4" GR 50 PLATE
5. 1" STYROFOAM BETWEEN (E) FND AND (N) FND
6. EPOXY DOWEL (N) SLAB BARS INTO (E) SLAB EDGE. EMBED TO FOLLOW GENERAL NOTES.
7. CONC. CURB @ PERIMETER S.A.D. AND 3/S1401.
8. STAIR STRINGER SEE 2/S1501 SIM. @ TOP. SEE 12/S1402 @ BASE.
9. THICKENED SLAB SEE 12/S1402.
10. BUILT UP PAD UNDER STAIR SEE 2/S1401AND S.A.D.
11. TOP OF G.B. -1'-6"

LEGEND

PROJECT NORTH
TRUE NORTH

ISSUE FOR BID

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CONSULTANTS:

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415.981.3157 *Fax*
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REGISTERED PROFESSIONAL ENGINEER ROBERT M. GAAP No. 5113 Exp. 6/30/13 STRUCTURAL STATE OF CALIFORNIA

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Drawing Title: FOUNDATION PLAN

Approved: Project Director: JM

Project Title: VA SIMULATION CENTER

Location: Veterans Affairs Palo Alto Heath Care System, 3801 Miranda Ave,Palo Alto, CA 94304

Date: JUNE 14, 2013 | Checked: RMG | Drawn: KLM

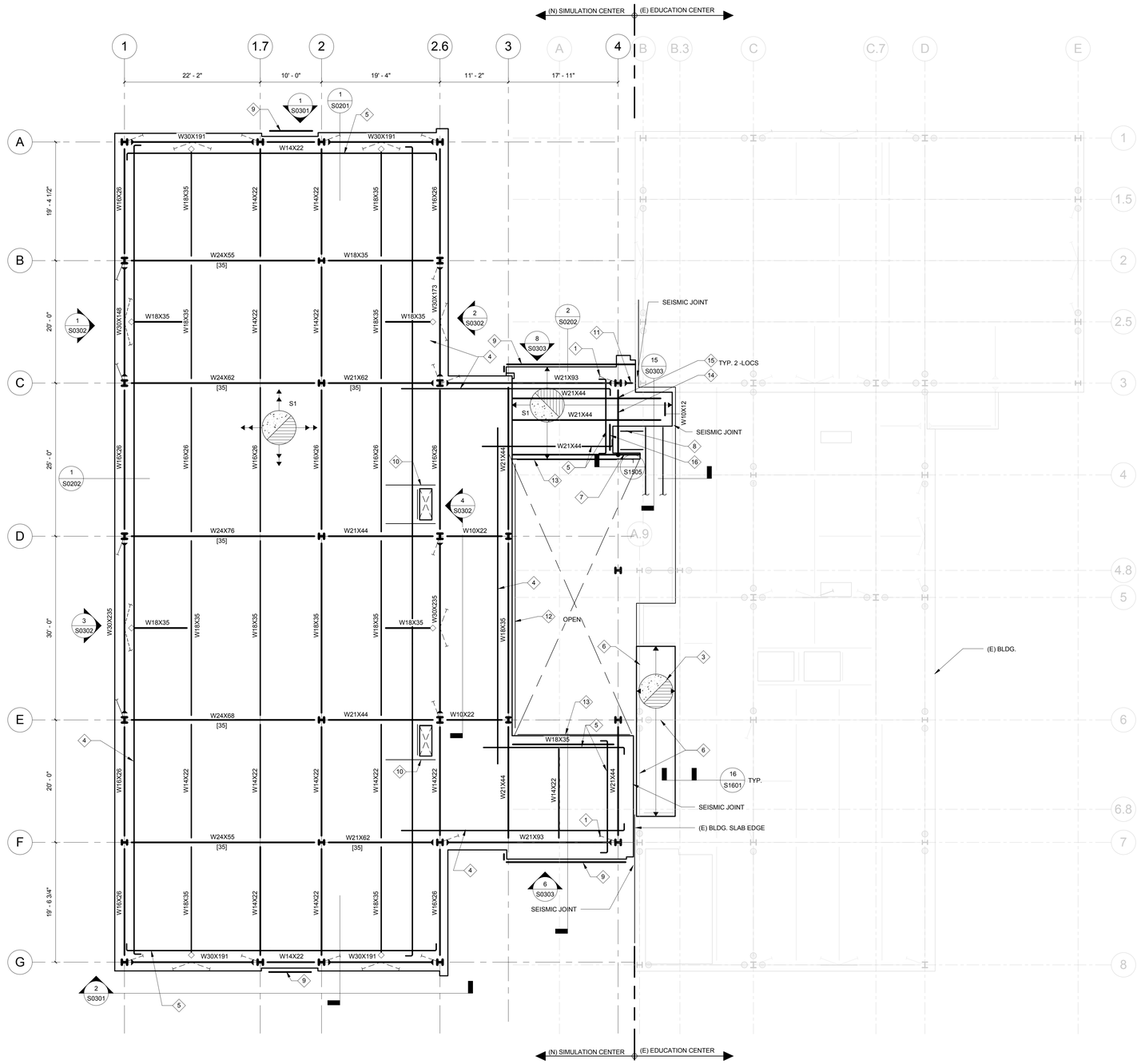
VA Project Number: 640-385

Building Number: 105

Drawing No. SF0101

VA PAHCS Veterans Affairs Palo Alto Health Care System

Department of Veterans Affairs



1 LEVEL 2 FRAMING PLAN
1/8" = 1'-0"

GENERAL NOTES

1. TOP OF SLAB: 18"-0" U.O.N.
2. TOP OF STEEL: 17"-5 3/4" U.O.N.

KEY NOTES

1. VERTICAL BRACES TO BE DEMOLISHED WHEN COMPLETE LEVEL 3 ROOF IS BUILT.
2. HORIZONTAL BRACE MAY BE DEMOLISHED WHEN COMPLETE LEVEL 3 ROOF IS BUILT.
3. S1 SLAB ON DECK INFILL OF EDUCATION BLDG.
4. 3 - #8 PERIPHERAL TIE BARS , TYP. U.O.N. SEE 7/S1602
5. 3 - #7 PERIPHERAL TIE BARS WHERE NOTED SEE 7/S1602.
6. PROVIDE HEADED STUDS ON (E) BM. PER DECK SCHEDULE.
7. CONC. SLAB OVER BEAM SEE 13/S1601.
8. STAIR STRINGER SEE 2/S1501 SIM. FOR CONN. EA. END.
9. SLAB EDGE PER 12B/S1601 w/ REINF. PER TYP. SLAB EDGE DETAIL.
10. FRAME OPENING PER 6/S1601.
11. W21x62 CANTILEVER
12. TYPE - B EDGE ANGLE, SEE 12/S1601
13. TYPE - A EDGE ANGLE, SEE 12/S1601
14. W18x35 @ -21" FROM T.O.S.
15. STACKED BM. CONN., SEE 10/S1501
16. W14x22

LEGEND

PROJECT NORTH
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Drawing Title: LEVEL 2 FRAMING PLAN

Approved: Project Director: JM

Project Title: VA SIMULATION CENTER

Location: Veterans Affairs Palo Alto Heath Care System, 3801 Miranda Ave,Palo Alto, CA 94304

Date: JUNE 14, 2013 | Checked: RMG | Drawn: KLM

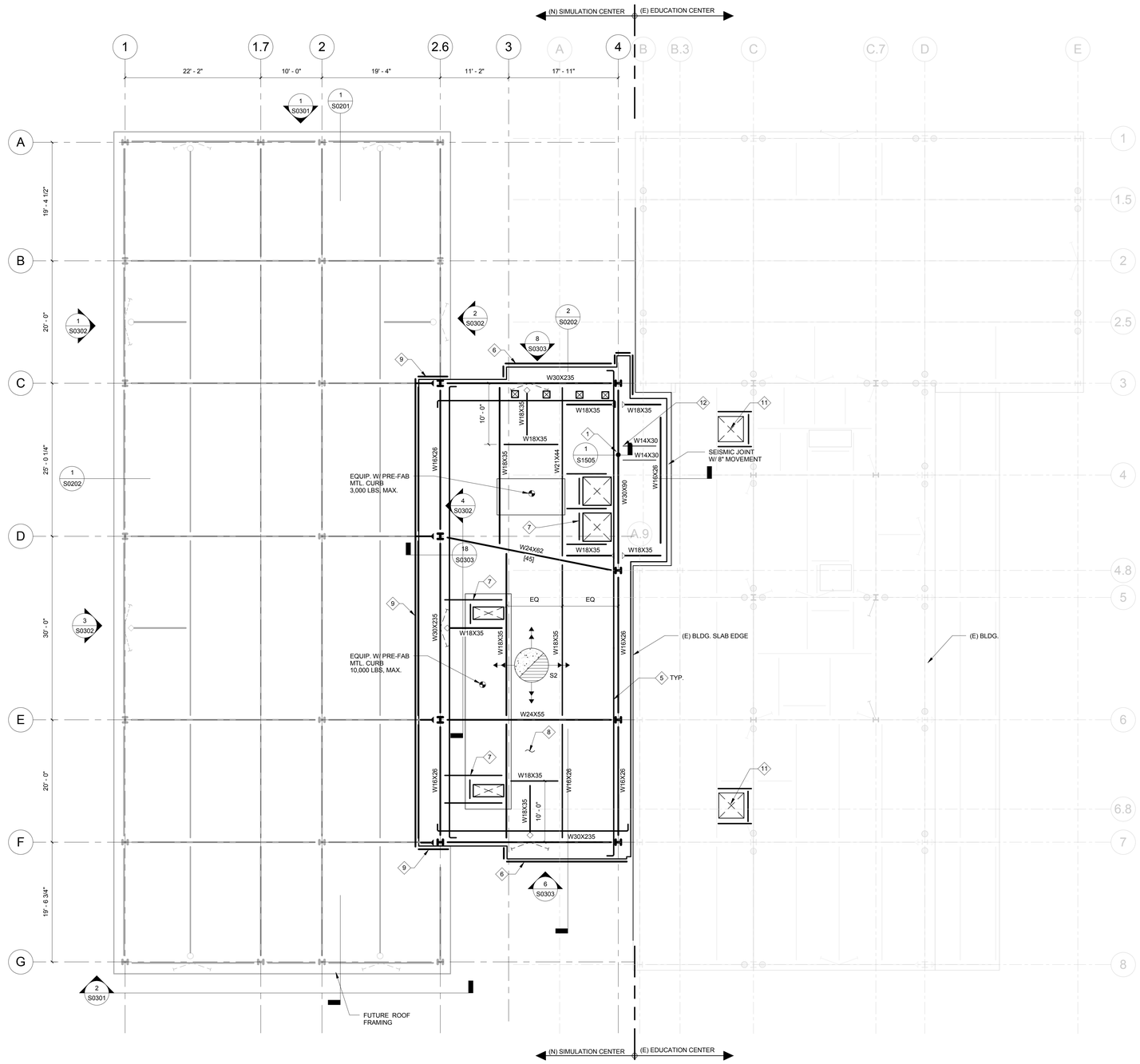
VA Project Number: 640-385

Building Number: 105

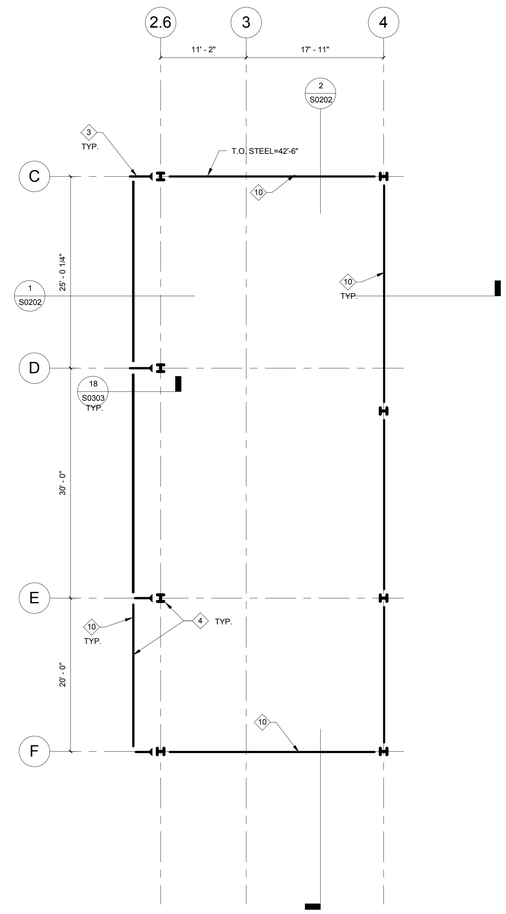
Drawing No. SF0102

VA PAHCS Veterans Affairs Palo Alto Health Care System

Department of Veterans Affairs



1 ROOF FRAMING PLAN
1/8" = 1'-0"



2 SCREEN WALL PLAN
1/8" = 1'-0"

GENERAL NOTES

KEY NOTES

1. PIPE HANGER DOWN TO LEVEL 2
2. BEAM TO COL. CONN. PER 2/S1505 SIM
3. W10x33 STUB T&B SEE 18/S0303
4. BEAMS AND COLUMNS ABOVE PENTHOUSE ROOF LEVEL TO BE HOT DIPPED GALVANIZED.
5. 5 - #8 PERIPHERAL TIE BARS, TYP. SEE 7/S1602
6. SLAB EDGE PER 12B/S1601 w/ REINF. PER TYP. SLAB EDGE DETAIL.
7. FRAME OPENING PER 6/S1601.
8. FUTURE ART INSTALLATION SEE 5/S0303.
9. SLAB EDGE PER 12A/S1601 TO ALLOW FOR WELDED CONN. BETWEEN (E) AND FUTURE SLABS.
10. HSS 8x8x3/8 T&B SEE 18/S0303.
11. (N) OPENING AND FRAMING IN (E) ROOF DECK. SEE 18B/S1601.
12. W14x30. ALIGN W/ STAIR STRINGER, S.A.D.

LEGEND

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Drawing Title: ROOF AND SCREEN WALL FRAMING PLAN

Approved: Project Director
JM

Project Title: VA SIMULATION CENTER

Location: Veterans Affairs Palo Alto Heath Care System, 3801 Miranda Ave,Palo Alto, CA 94304

Date: JUNE 14, 2013 | Checked: RMG | Drawn: KLM

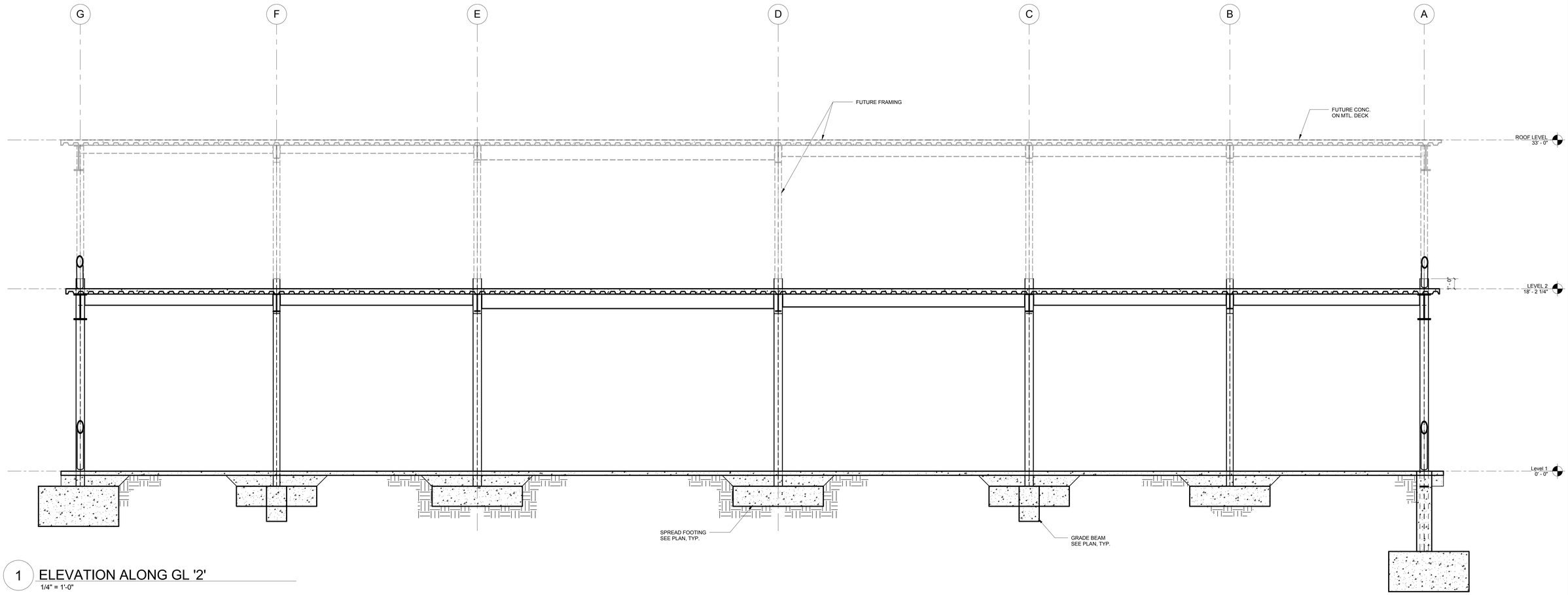
VA Project Number: 640-385

Building Number: 105

Drawing No. SF0103

VA PAHCS Veterans Affairs Palo Alto Health Care System

Department of Veterans Affairs



1 ELEVATION ALONG GL '2'

1/4" = 1'-0"

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Drawing Title
ELEVATIONS

Approved: Project Director
Approver

Project Title
VA SIMULATION CENTER

Location Veterans Affairs Palo Alto Heath Care System
3801 Miranda Ave,Palo Alto, CA 94304

Date JUNE 14, 2013 | Checked Checker | Drawn KLM

VA Project Number: 640-385

Building Number: 105

Drawing No. S0201

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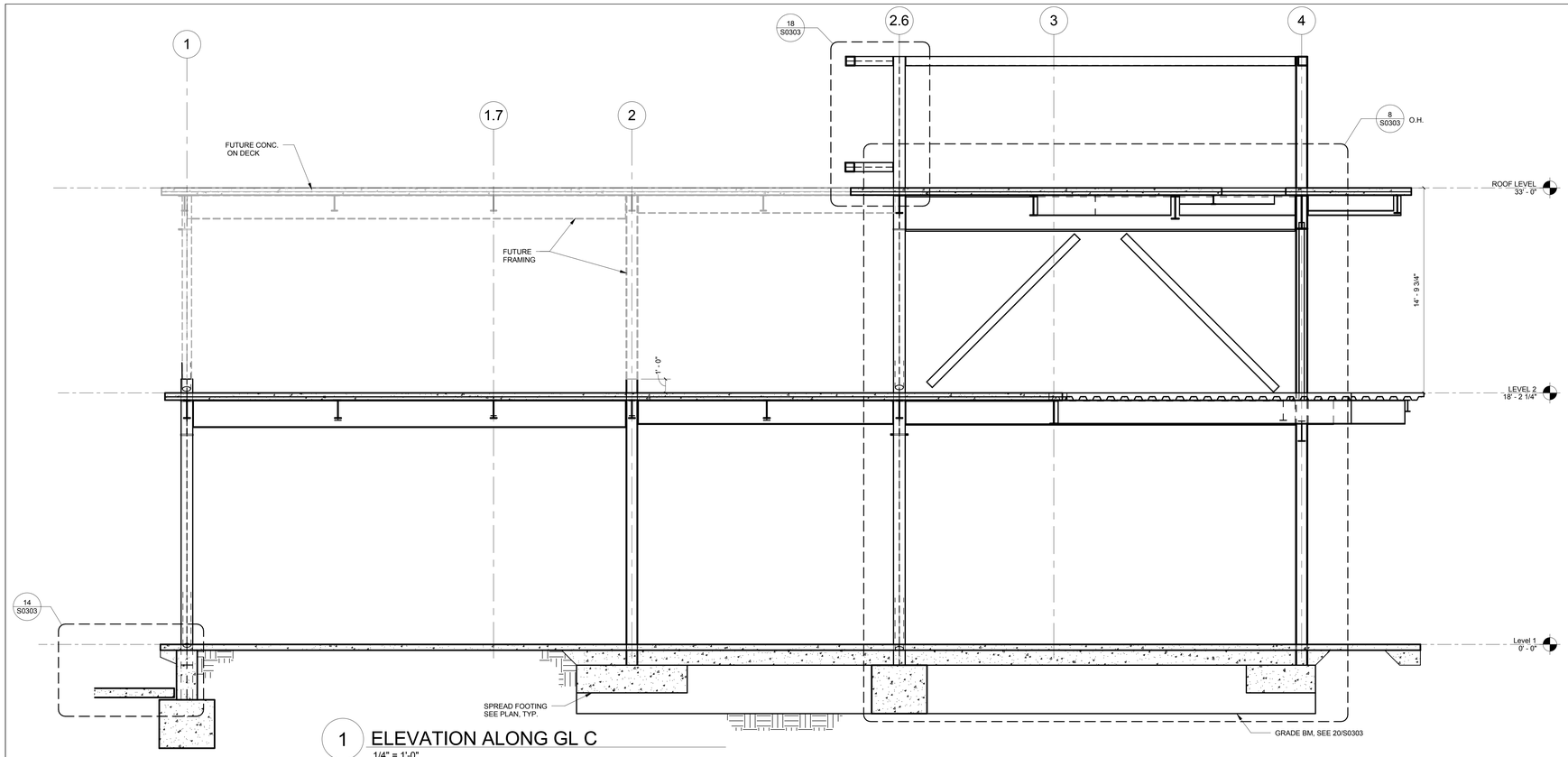
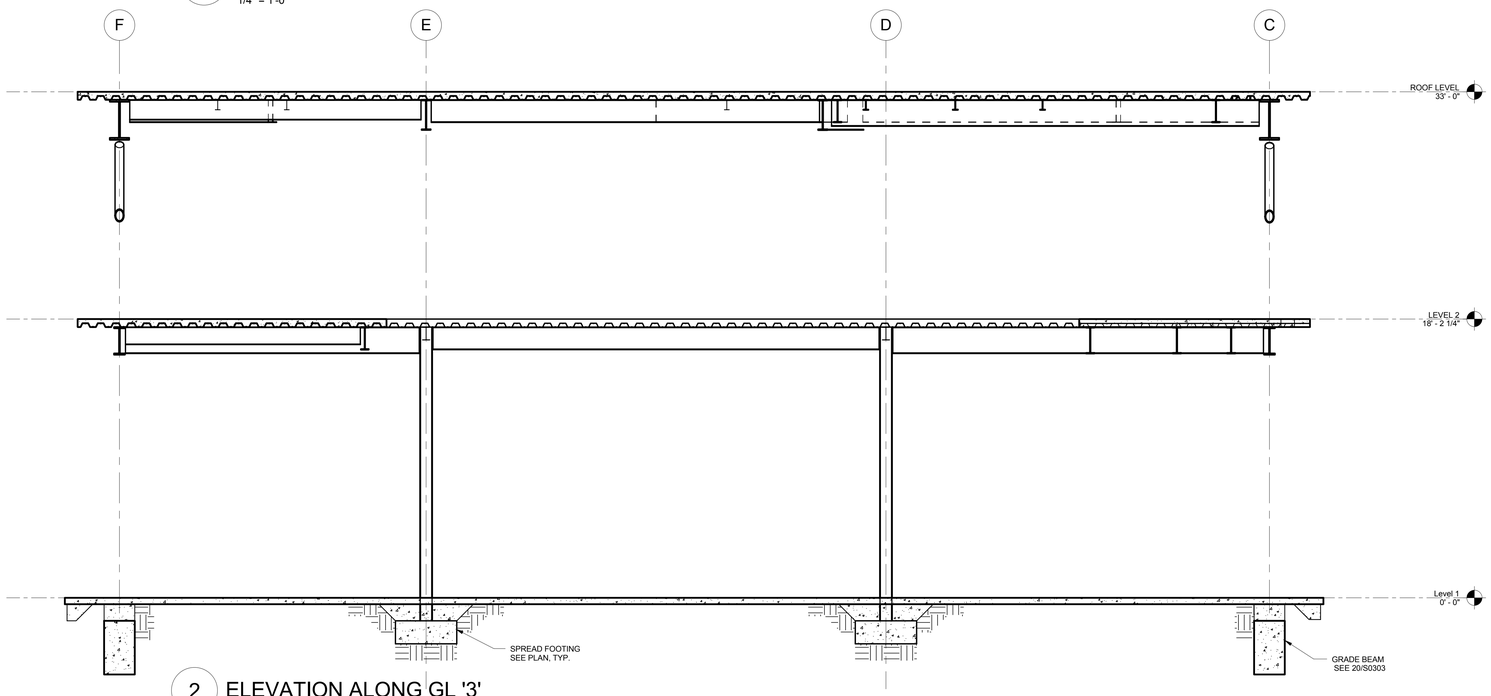


1 ELEVATION ALONG GL C

1/4" = 1'-0"



2 ELEVATION ALONG GL '3'

1/4" = 1'-0"

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Drawing Title
ELEVATIONS

Approved: Project Director
Approver

Project Title
VA SIMULATION CENTER

Location
Veterans Affairs Palo Alto Heath Care System
3801 Miranda Ave,Palo Alto, CA 94304

Date
JUNE 14, 2013

Checked
Checker

Drawn
KLM

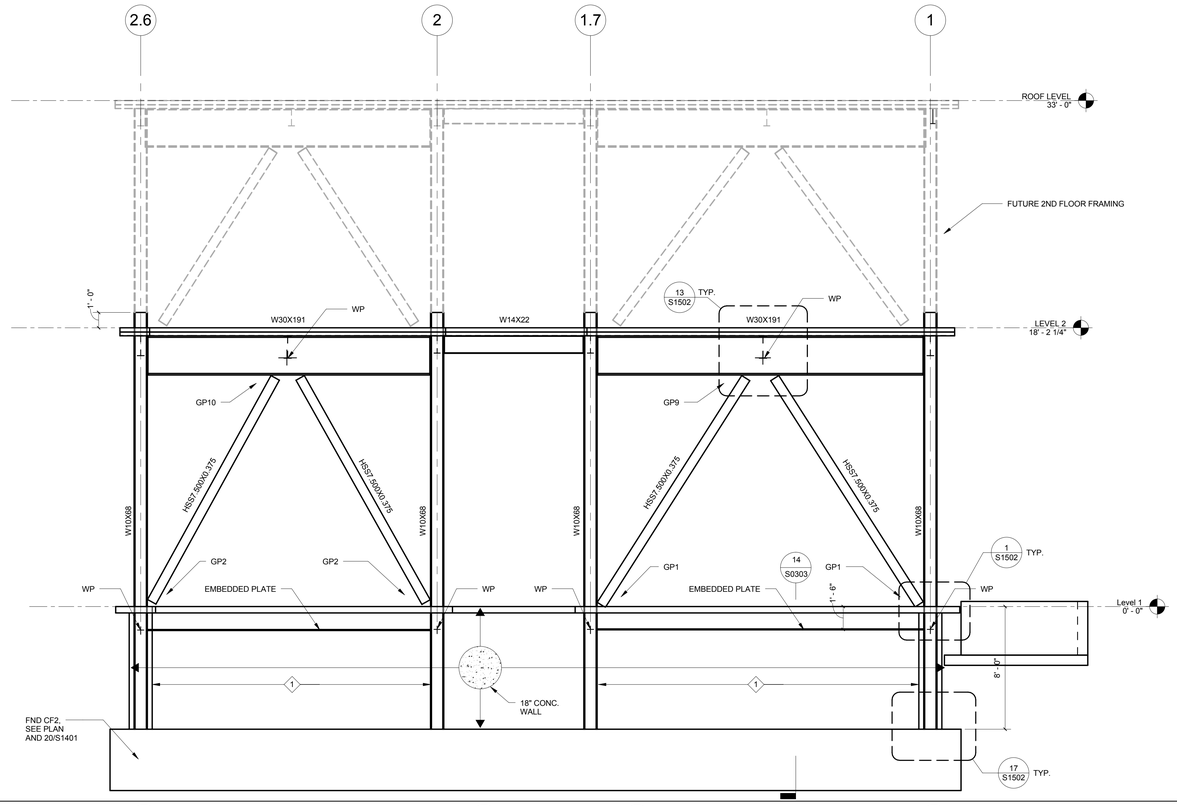
VA Project Number:
640-385

Building Number:
105

Drawing No.
S0202

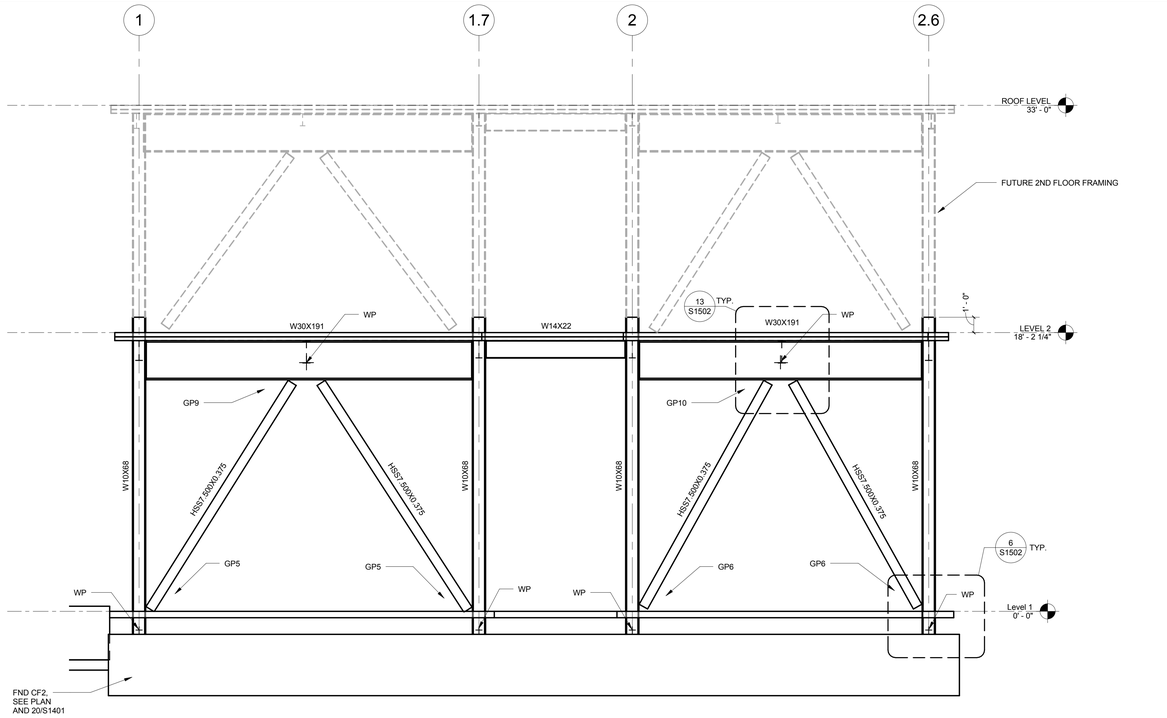
VA PAHCS
Veterans Affairs
Palo Alto Health Care System

Department of Veterans Affairs



1 ELEVATION @ LINE A

1/4" = 1'-0"



2 ELEVATION @ LINE G

1/4" = 1'-0"

KEY NOTE:

1. 2-ROWS OF 3/4"Ø STUDS x4" MIN. @ 12" O.C. EA. FLANGE @ COL. ENCASED IN WALL. AT CORNER COLUMNS PROVIDE STUDS ON COL. WEB INSTEAD OF OUTSIDE FLANGE.

SHEET NOTE:

SEE 14/S1502 FOR BRACE GUSSETS DESIGNATED GP#.

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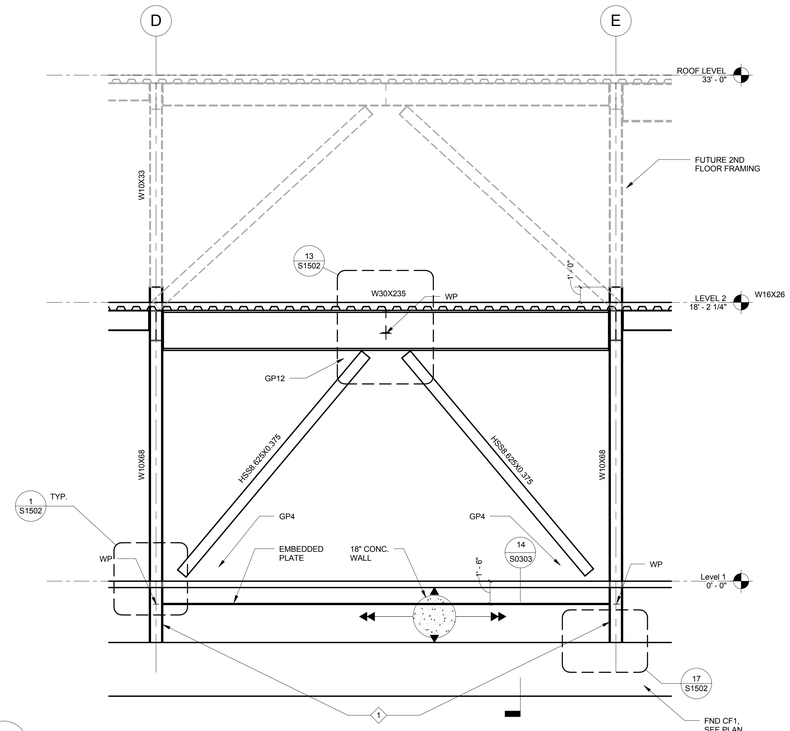
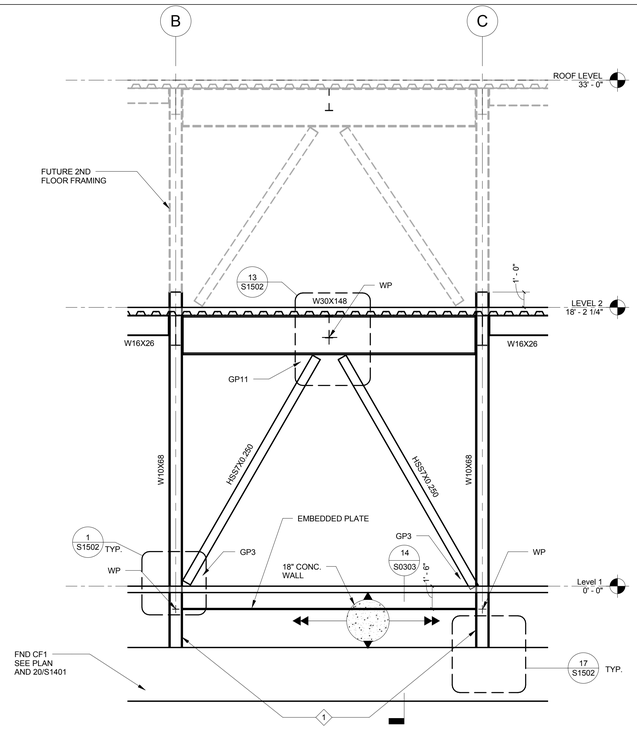
Drawing Title: ELEVATIONS	Project Title: VA SIMULATION CENTER	VA Project Number: 640-385	VA PAHCS Veterans Affairs Palo Alto Health Care System
Approved: Project Director: JM	Location: Veterans Affairs Palo Alto Heath Care System, 3801 Miranda Ave,Palo Alto, CA 94304	Building Number: 105	
	Date: JUNE 14, 2013 / Checked: RMG / Drawn: KLM	Drawing No. S0301	Department of Veterans Affairs



3 ELEVATION @ LINE 1 (D-E)
1/4" = 1'-0"



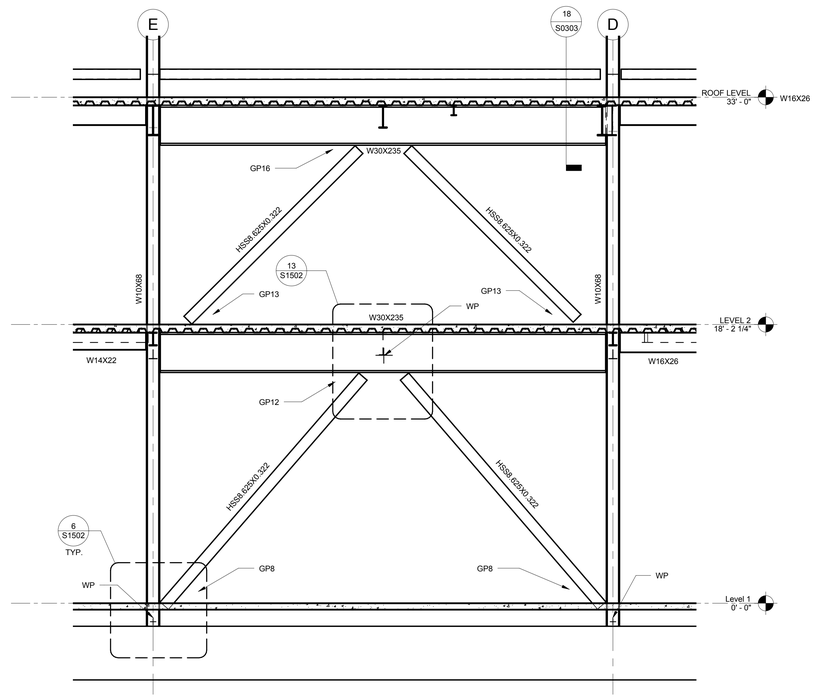
1 ELEVATION @ LINE 1 (B-C)
1/4" = 1'-0"

KEY NOTE:

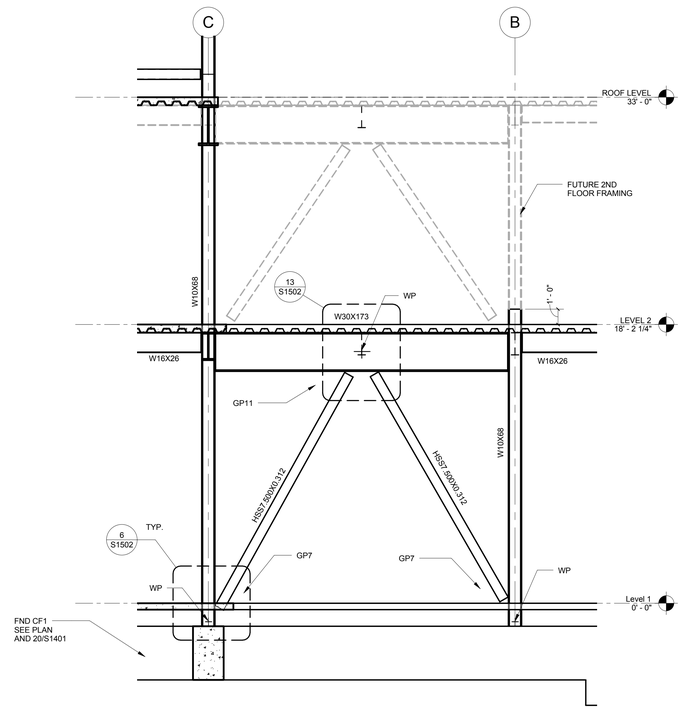
1 2 - ROWS OF 3/4"Ø STUDS x4" MIN. @ 12" O.C. EA. FLANGE

SHEET NOTE:

SEE 14/S1502 FOR BRACE GUSSET DESIGNATED GP#



4 ELEVATION @ LINE 2.6 (D-E)
1/4" = 1'-0"



2 ELEVATION @ LINE 2.6 (B-C)
1/4" = 1'-0"

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Drawing Title: ELEVATIONS

Approved: Project Director: JM

Project Title: VA SIMULATION CENTER

Location: Veterans Affairs Palo Alto Heath Care System, 3801 Miranda Ave,Palo Alto, CA 94304

Date: JUNE 14, 2013 | Checked: RMG | Drawn: KLM

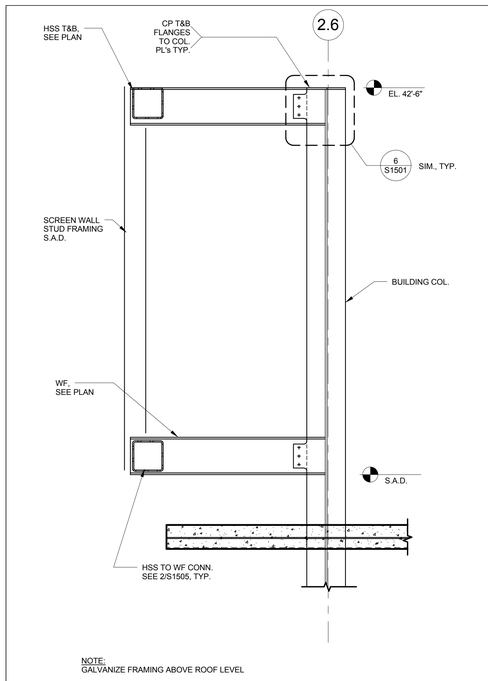
VA Project Number: 640-385

Building Number: 105

Drawing No. S0302

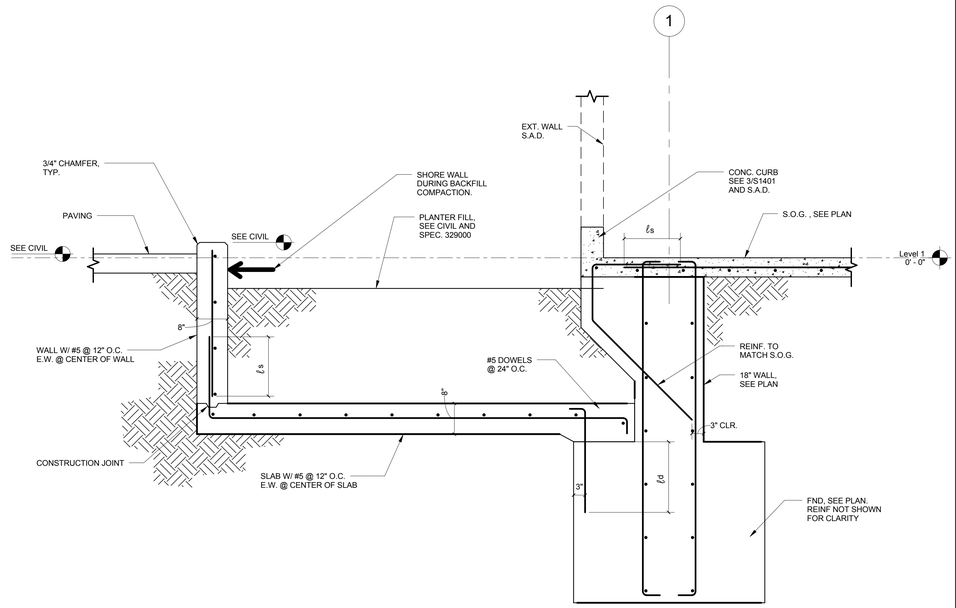
VA PAHCS Veterans Affairs Palo Alto Health Care System

Department of Veterans Affairs

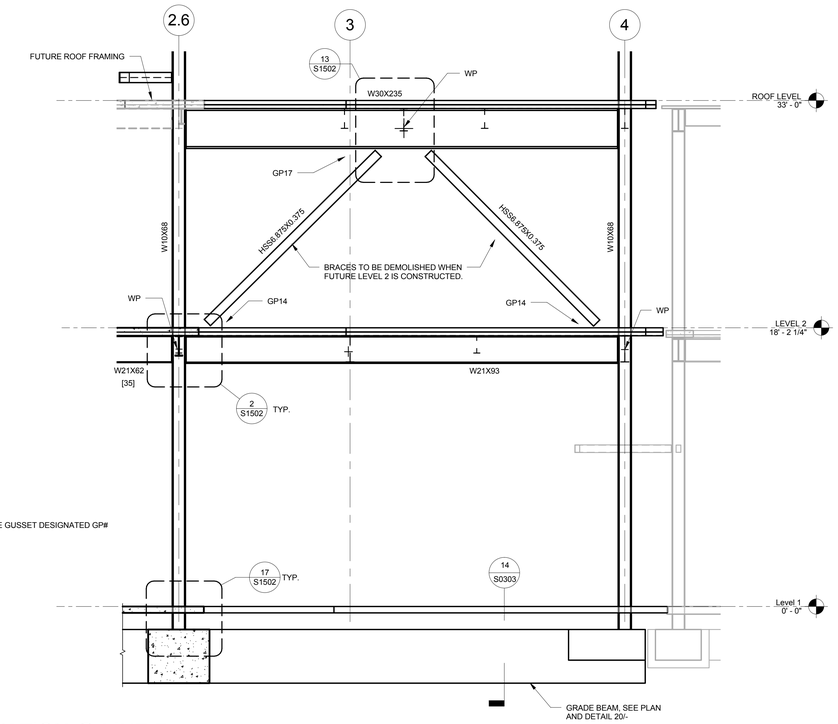


NOTE:
GALVANIZE FRAMING ABOVE ROOF LEVEL

18 SECTION @ SCREEENWALL
3/4" = 1'-0"

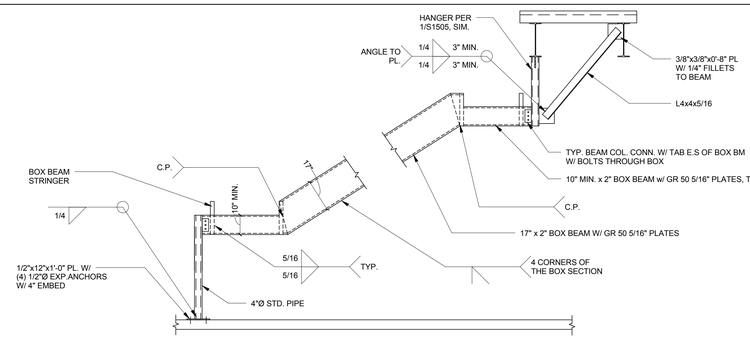


14 FLOW THROUGH PLANTER SECTION
3/4" = 1'-0"



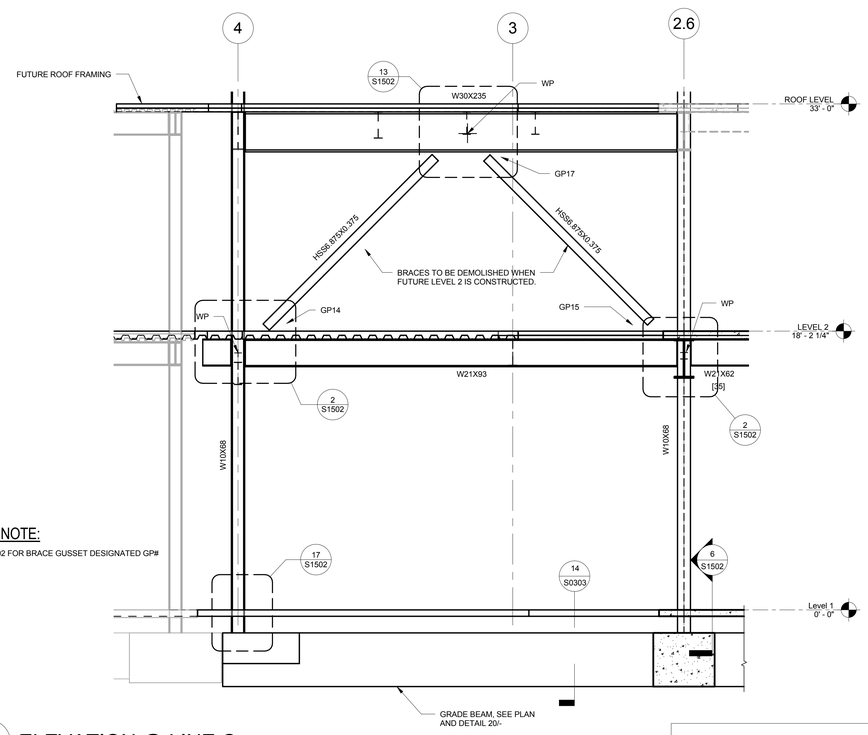
SHEET NOTE:
SEE 14/S1502 FOR BRACE GUSSET DESIGNATED GP#

6 ELEVATION @ LINE F
1/4" = 1'-0"



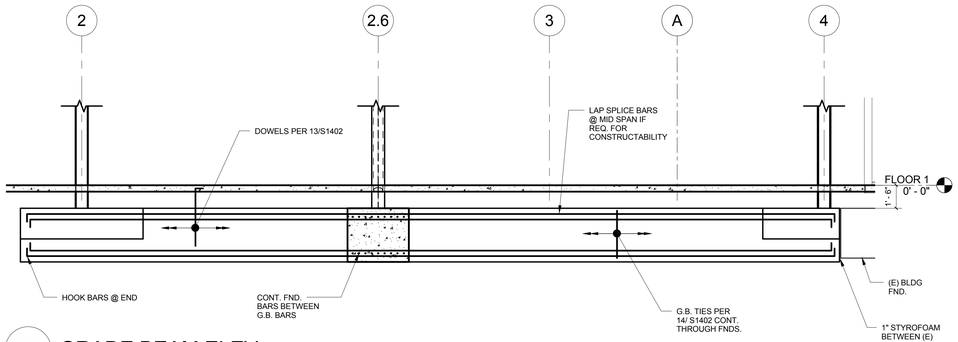
NOTE: AESS REQUIRED, S.A.D.

15 LOBBY STAIR SECTION
3/8" = 1'-0"

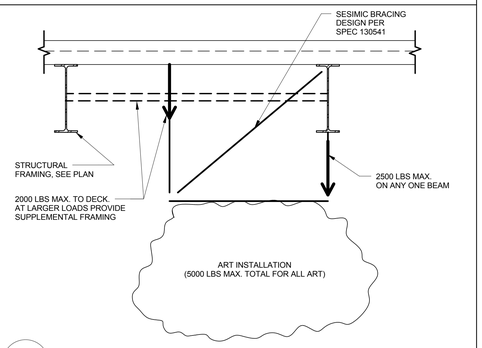


SHEET NOTE:
SEE 14/S1502 FOR BRACE GUSSET DESIGNATED GP#

8 ELEVATION @ LINE C
1/4" = 1'-0"



20 GRADE BEAM ELEV.
1/4" = 1'-0"



12 ART INSTALLATION
3/4" = 1'-0"

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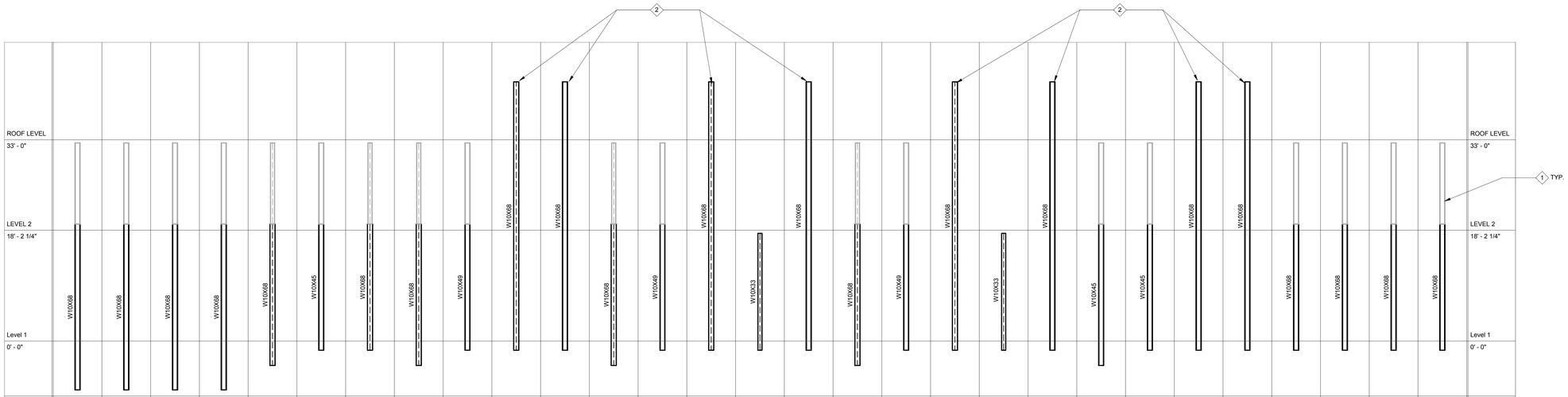
Drawing Title: ELEVATIONS	Project Title: VA SIMULATION CENTER	VA Project Number: 640-385	VA PAHCS Veterans Affairs, Palo Alto Health Care System
Approved: Project Director: JM	Location: Veterans Affairs Palo Alto Heath Care System, 3801 Miranda Ave,Palo Alto, CA 94304	Building Number: 105	
	Date: JUNE 14, 2013 / Checked: RMG / Drawn: KLM	Drawing No.: S0303	Department of Veterans Affairs



Column Locations	A-1	A-1.7	A-2	A-2.6	B-1	B-2	B-2.6	C-1	C-2	C-2.6	C-4	D-1	D-2	D-2.6	D-3	D(-5' - 7")-4	E-1	E-2	E-2.6	E-3	E-4	F-1	F-2	F-2.6	F-4	G-1	G-1.7	G-2	G-2.6
Baseplate Detail	17/S1502	17/S1502	17/S1502	17/S1502	17/S1502	12/S1501	6/S1502	17/S1502	12/S1501	6/S1502	17/S1502	17/S1502	12/S1501	6/S1502	12/S1501	12/S1501	17/S1502	12/S1501	6/S1502	12/S1501	12/S1501	12/S1501	12/S1501	17/S1502	17/S1502	6/S1502	6/S1502	6/S1502	6/S1502
DL	41	45	40	37	73	85	52	82	96	118	93	103	117	96	23	92	94	107	121	24	73	72	86	66	73	41	45	40	37
LL	15	20	19	13	40	53	24	45	60	38	27	47	73	14	20	14	50	68	50	22	14	40	53	8	24	15	20	19	13

KEY NOTES

1. FUTURE COLUMN EXTENSION, TYP.
2. AT GALV. COL. CP COL. SPLICE @ 4'-0" BELOW ROOF ELEV. @ CONTRACTOR'S OPTION. PER 15/S1501, SIM.

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REGISTERED PROFESSIONAL ENGINEER ROBERT M. GRAFF No. 5113 Exp. 6/30/13 STRUCTURAL STATE OF CALIFORNIA

ARCHITECT/ENGINEERS:

CANNONDESIGN

201 Mission Street, Suite 2400, San Francisco, California 94105 415.243.4170

Baltimore ■ Boston ■ Buffalo ■ Calgary ■ Chicago
Houston ■ Los Angeles ■ Mumbai ■ New York ■ Phoenix
St. Louis ■ San Francisco ■ Shanghai ■ Toronto
Vancouver ■ Victoria ■ Washington DC

Drawing Title: COLUMN SCHEDULE

Approved: Project Director: JM

Project Title: VA SIMULATION CENTER

Location: Veterans Affairs Palo Alto Heath Care System, 3801 Miranda Ave,Palo Alto, CA 94304

Date: JUNE 14, 2013 | Checked: RMG | Drawn: KLM

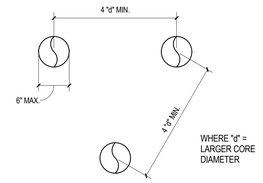
VA Project Number: 640-385

Building Number: 105

Drawing No. S0401

VA PAHCS Veterans Affairs Palo Alto Health Care System

Department of Veterans Affairs

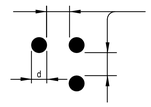


NOTES:

1. RETAIN THE SERVICES OF A RECOGNIZED TESTING LABORATORY TO PERFORM NON-DESTRUCTIVE INSPECTION OF CONCRETE WALLS AND SLABS TO DETERMINE THE LOCATION OF EXISTING STEEL REINFORCEMENT AND EMBEDDED UTILITIES (PIPES, CONDUITS, ETC.) WHERE CORE PENETRATIONS ARE REQUIRED. USE ULTRASONIC METHODS SUCH AS A PACHOMETER OR FERROSCAN PROCEDURES. PROVIDE PROPOSED CORE AND EXISTING STEEL REINFORCEMENT AND EMBEDDED UTILITY LOCATIONS FOR APPROVAL PRIOR TO CORING. EXISTING REINFORCING MAY BE CUT ONLY WHERE INDICATED ON PLAN.

13 PENETRATIONS THROUGH CONCRETE WALLS & SLABS

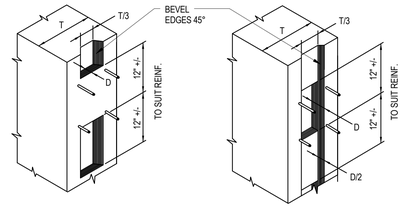
N.T.S.



MIN. BAR SPACING:
1 1/2" OR 1 1/2d WHICHEVER IS LARGER

9 BAR SPACING IN CONCRETE

N.T.S.



KEY TYPE #1
TYP. FOR NON-RETAINING WALLS

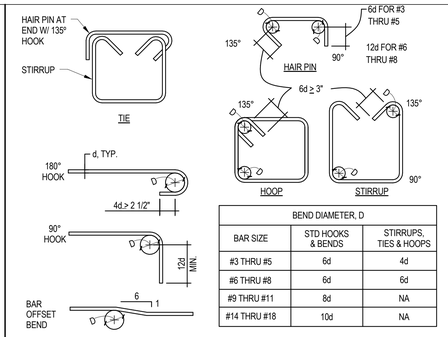
KEY TYPE #2
FOR SLABS, RETAINING WALLS & BASEMENT WALLS BELOW GRADE

KEY SCHEDULE	
T	D
< 8"	3/4"
8"-16"	1 1/2"
>16"	2 1/2"

NOTE:
1. DETAILS APPLY TO BOTH (H) AND (V) CONSTRUCTION JOINTS.

5 CONST. JOINTS

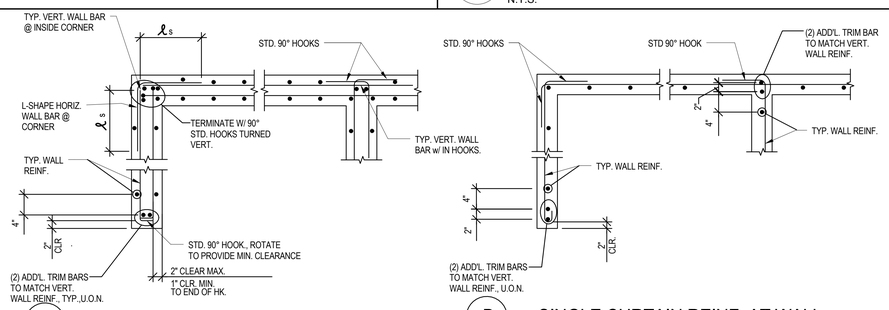
N.T.S.



BEND DIAMETER, D		
BAR SIZE	STD HOOKS & BENDS	STIRRUPS, TIES & HOOPS
#3 THRU #5	6d	4d
#6 THRU #8	6d	6d
#9 THRU #11	8d	NA
#14 THRU #18	10d	NA

1 HOOKS & BENDS

N.T.S.



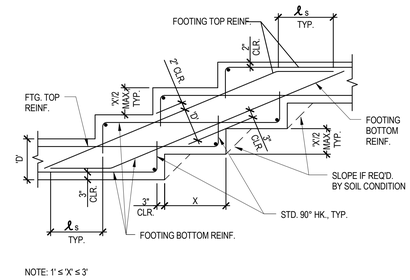
A DOUBLE CURTAIN REINF. AT WALL

B SINGLE CURTAIN REINF. AT WALL

NOTE: SEE 12/I3-S5.10 FOR REINF. @ ENCASED COLUMNS.

18 WALL REINFORCING

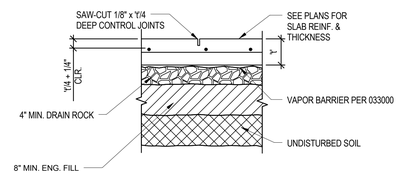
1" = 1'-0"



NOTE: 1' ≤ 'X' ≤ 3'

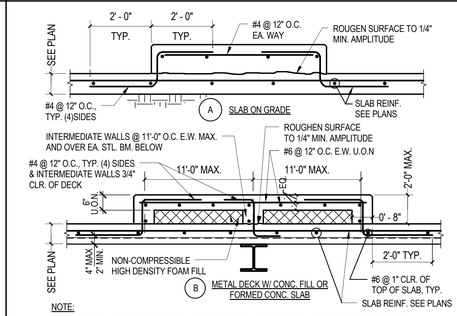
10 STEPPED FOOTING

N.T.S.



6 SOG & SUBGRADE PREP

N.T.S.



NOTE:
1. SEE DRAWINGS BY OTHERS FOR HEIGHT, SIZE, CHAMFERS & LOCATION OF CONCRETE PADS.
2. COORDINATE REINF. LOCATIONS TO AVOID INTERFERENCE WITH INSTALLATION OF POST-INSTALLED EXPANSION ANCHORS IF USED.

2 HOUSEKEEPING PAD

N.T.S.

REINFORCING DEVELOPMENT AND SPLICE LENGTHS

BAR LOCATION	CONCRETE TYPE	CONCRETE MIN. STRENGTH	3 ld	3 ls	3 ldh	4 ld	4 ls	4 ldh	5 ld	5 ls	5 ldh	6 ld	6 ls	6 ldh	7 ld	7 ls	7 ldh	8 ld	8 ls	8 ldh	9 ld	9 ls	9 ldh	10 ld	10 ls	10 ldh	11 ld	11 ls	11 ldh	ld	ls	ldh	ld	ls	ldh
FOOTING TOP AND WALL HORIZONTAL REINF.	NWC	4 KSI	14	18	7	20	26	9	31	40	12	44	57	14	59	77	17	78	101	19	99	129	21	126	164	24	154	200	26	-	-	-	-	-	-
FOOTING BOTTOM, WALL VERTICAL, SLAB ON GRADE, AND CURB	NWC	4 KSI	12	16	7	15	20	9	24	31	12	34	44	14	46	60	17	60	78	19	76	99	21	97	126	24	119	155	26	-	-	-	-	-	-
LWC ON DECK	NWC	4 KSI	16	20	9	20	25	12	31	41	15	44	57	18	60	78	22	78	101	25	99	128	28	126	164	31	155	201	34	-	-	-	-	-	-

NOTES :
1. ℓd = DEVELOPMENT LENGTH

ℓs = LAP SPLICE LENGTH

ℓdh = HOOK DEVELOPMENT LENGTH

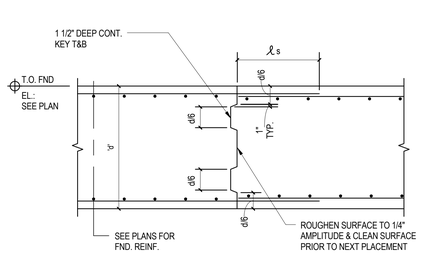
2. WHEN SPLICING BARS OF DIFFERENT SIZE, USE LAP SPLICE LENGTH OFLARGER BAR, U.O.N.

3. STAGGER SPLICES AS INDICATED ON DRAWINGS.

4. MULTIPLY THE ABOVE LENGTHS BY 1.5 FOR EPOXY COATED REINF.

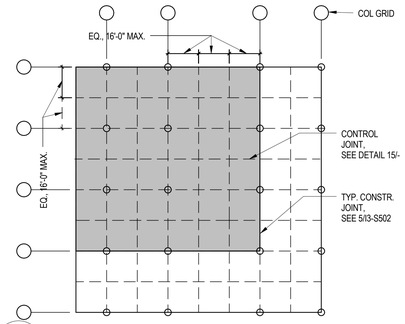
19 REINFORCEMENT DEVELOPMENT

N.T.S.



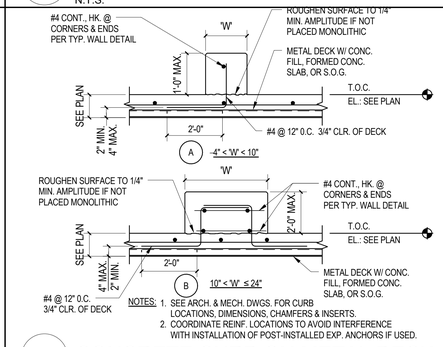
11 FOUNDATION CONSTRUCTION JOINT

N.T.S.



7 CONTROL JTS. IN SOG

N.T.S.



NOTES:
1. SEE ARCH. & MECH. DWGS. FOR CURB LOCATIONS, DIMENSIONS, CHAMFERS & INSERTS.
2. COORDINATE REINF. LOCATIONS TO AVOID INTERFERENCE WITH INSTALLATION OF POST-INSTALLED EXP. ANCHORS IF USED.

3 CONCRETE CURB ON METAL DECK

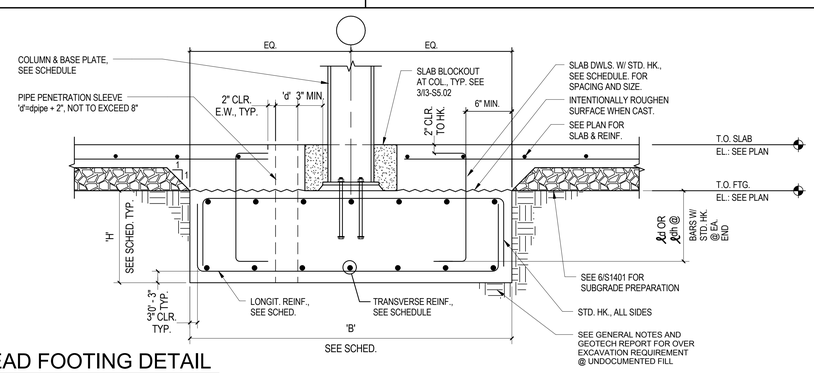
N.T.S.

FOOTING SCHEDULE

MARK	'H' DEPTH	'B' LENGTH	'D' WIDTH	BOTTOM REINFORCING LONG.	BOTTOM REINFORCING TRANSVERSE	TOP REINFORCING LONG.	TOP REINFORCING TRANSVERSE	SLAB DOWELS	DETAIL	REMARKS
F1	2'-0"	8'-0"	8'-0"	9-#6	9-#6	-	-	#4 @ 18" O.C.	12/-	
F2	2'-0"	9'-0"	9'-0"	10-#6	10-#6	-	-	#4 @ 18" O.C.	12/-	
F3	1'-6"	5'-0"	5'-0"	6-#6	6-#6	-	-	#4 @ 18" O.C.	12/-	
F4	2'-0"	8'-6"	5'-6"	9-#6	7-#6	9-#6	7-#6	#4 @ 18" O.C.	12/-	
F5	1'-6"	7'-0"	7'-0"	8-#6	8-#6	-	-	#4 @ 18" O.C.	12/-	
CF1	3'-6"	N/A	4'-0"	10-#9	#6 @ 12" O.C.	5-#8	#6 @ 12" O.C.	#4 @ 18" O.C.	12/-, SIM.	TRANSVERSE BARS ARE CLOSED TIES
CF2	4'-0"	N/A	8'-0"	11-#10	#9 @ 12" O.C.	9-#8	#7 @ 12" O.C.	#4 @ 18" O.C.	12/-, SIM.	
CF3	3'-6"	N/A	4'-0"	5-#9	#6 @ 12" O.C.	5-#8	#6 @ 12" O.C.	#4 @ 18" O.C.	12/-, SIM.	

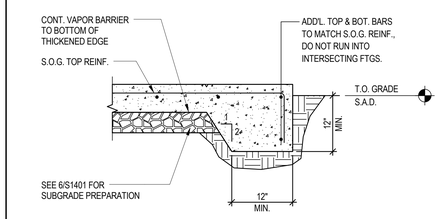
20 FOOTING SCHEDULE

N.T.S.



12 SPREAD FOOTING DETAIL

N.T.S.



4 SOG FREE EDGE

N.T.S.

ISSUE FOR BID

Revisions	Date
9	
8	
7	
6	
5	
4	
3	
2	
1	

CONSULTANTS:

Degenkolb

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Drawing Title
TYPICAL CONCRETE DETAILS

Approved: Project Director
JM

Project Title
VA SIMULATION CENTER

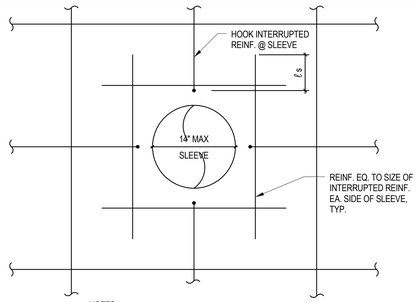
Location
Veterans Affairs Palo Alto Heath Care System
3801 Miranda Ave,Palo Alto, CA 94304

Date: JUNE 14, 2013
Checked: RMG
Drawn: KLM

VA Project Number: 640-385
Building Number: 105
Drawing No. S1401

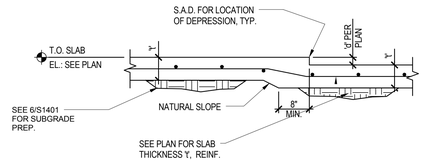
VA PAHCS Veterans Affairs Palo Alto Health Care System

Department of Veterans Affairs

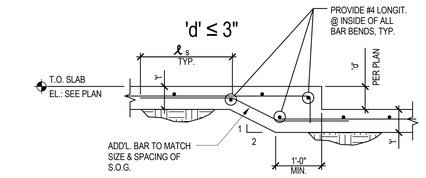


NOTES:
1. FOR SLEEVES OVER 14", SEE 9I/3-S5.01
2. PROVIDE 2x LARGER DIAM. SLEEVE CLEAR BETWEEN SLEEVES. MIN.
3. WHERE NO REINF. IS INTERRUPTED NO ADDITIONAL REINF. IS REQ.

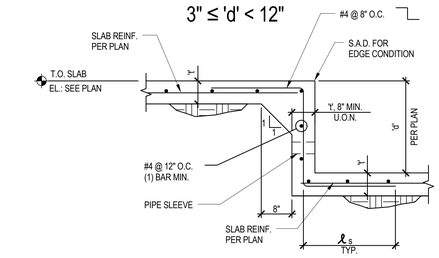
5 SLEEVES IN WALLS AND SLABS
N.T.S.



'd' ≤ 3"



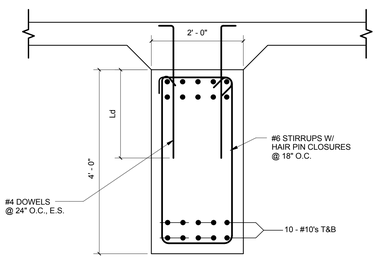
3" ≤ 'd' < 12"



12" ≤ 'd' < 42"

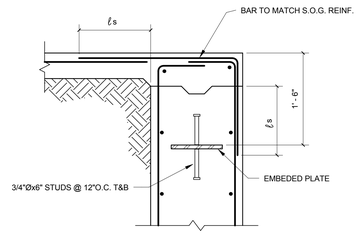
NOTE:
COORDINATE LOCATION, DEPTH, EXTENT, AND EDGE CONDITIONS OF DEPRESSIONS WITH ARCHITECTURAL DRAWINGS.

2 SOG DEPRESSION
N.T.S.

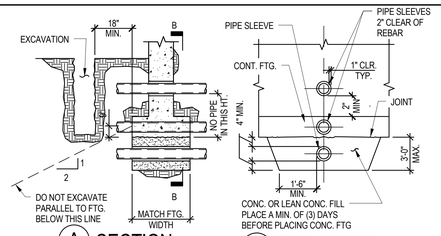


GB-1

14 GRADE BEAM DETAIL
N.T.S.



10 EMBEDED SCBF BEAM DRAG PL
N.T.S.

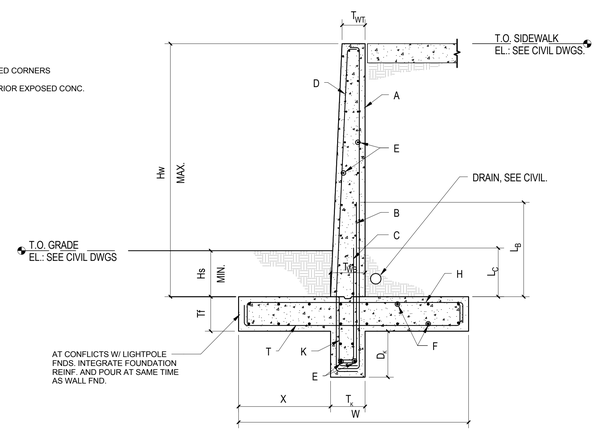


A SECTION B ELEVATION

NOTES:
1. REINFORCE OPENINGS FOR SLEEVES OR GROUPS OF SLEEVES LARGER THAN 10" PER THE TYP. WALL OPENING DET. "GROUPS" OF SLEEVES INCLUDES ALL SLEEVES SPACED CLOSER THAN ONE DIAMETER CLR.
2. SEE MECH. & CIVIL DWGS. FOR ADD'L. REQUIREMENTS AT SLEEVES.
3. DEPTH OF FOOTING MAY BE DETERMINED BY LOCATION OF PIPES. CONSULT WITH MECH. CONTRACTOR TO DETERMINE EXACT DEPTH.

6 SLEEVES AT FTG.
N.T.S.

NOTES:
1. 3/4" CHAMFER @ ALL EXPOSED CORNERS
2. REFER TO 320523 FOR EXTERIOR EXPOSED CONC.

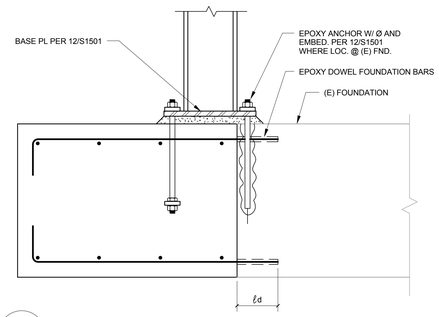


NOTE: CENTERLINE OF KEY TO ALIGN WITH CENTERLINE OF BASE OF WALL.

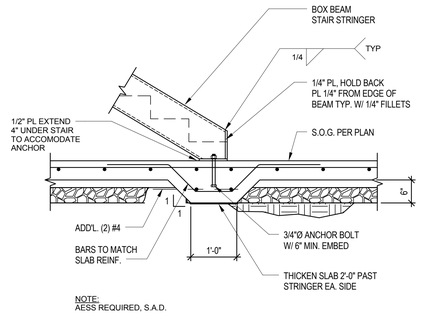
RETAINING WALL SCHEDULE

Hw MAX. (ft.)	WALL DIMENSIONS SCHEDULE							REINFORCEMENT											
	W	TF	HS	X	TWT	TWB	TK	DK	A	B	LS (ft.)	C	LC (ft.)	D	E	F	H	K	T	REMARKS
8'	6'	1.5'	1'	1'	8"	8"	8"	1'	#6 @ 12" O.C.	-	-	-	-	#4 @ 18" O.C.	#4 @ 18" O.C.	#5 @ 18" O.C.	#5 @ 18" O.C.	#5 @ 18" O.C.	#5 @ 18" O.C.	
6'	5'	1.5'	1'	1'	8"	8"	8"	1'	#6 @ 12" O.C.	-	-	-	-	#4 @ 18" O.C.	#4 @ 18" O.C.	#5 @ 18" O.C.	#5 @ 18" O.C.	#5 @ 18" O.C.	#5 @ 18" O.C.	
4'	4'	1.5'	1'	1'	8"	8"	-	-	#5 @ 18" O.C.	-	-	-	-	-	#4 @ 18" O.C.	#5 @ 18" O.C.	#5 @ 18" O.C.	-	#5 @ 18" O.C.	CENTER BARS IN WALL

20 RETAINING WALL SECTION AND SCHEDULE
3/8" = 1'-0"

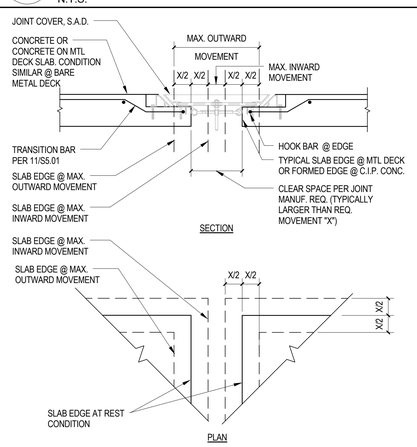


11 FOUNDATION EXTENSION
N.T.S.



NOTE:
AESS REQUIRED, S.A.D.

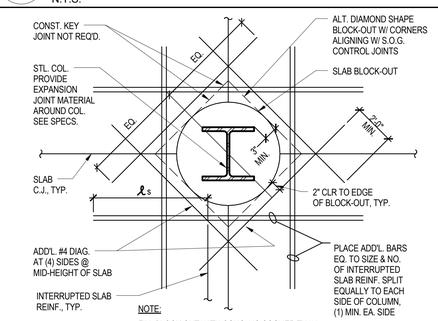
12 STAIR STRINGER FOOTING
N.T.S.



Seismic Joint Schedule

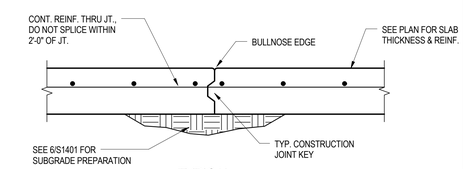
Floor	Minimum Required Joint Movements at Seismic Joints "X" (inches)
ROOF	8.0"
2	5.0"
1	0

8 SEISMIC JOINT DETAIL
N.T.S.



NOTE:
FILL BLOCK-OUT WITH CONC. NO SOONER THAN 28 DAYS AFTER PLACING SLAB ON GRADE.

3 SOG BLOCKOUT
N.T.S.



TYPICAL

NOTE:
CONSTRUCTION JOINTS TO BE USED ONLY WHERE SHOWN ON PLAN OR SPECIFICALLY APPROVED.

4 S.O.G. CONSTRUCTION JOINT
N.T.S.

ISSUE FOR BID

Revisions	Date
9	
8	
7	
6	
5	
4	
3	
2	
1	

CONSULTANTS:

Degenkolb

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Drawing Title: TYPICAL CONCRETE DETAILS

Project Title: VA SIMULATION CENTER

VA Project Number: 640-385

Building Number: 105

Approved: Project Director JM

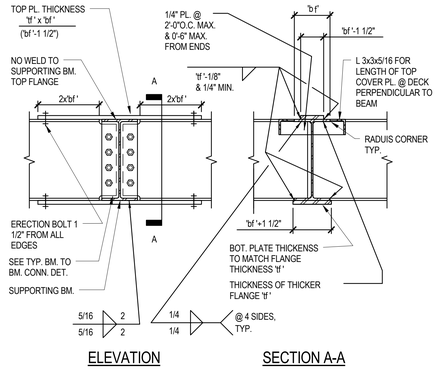
Location: Veterans Affairs Palo Alto Heath Care System, 3801 Miranda Ave,Palo Alto, CA 94304

Drawing No. S1402

Date: JUNE 14, 2013 | Checked: RMG | Drawn: KLM

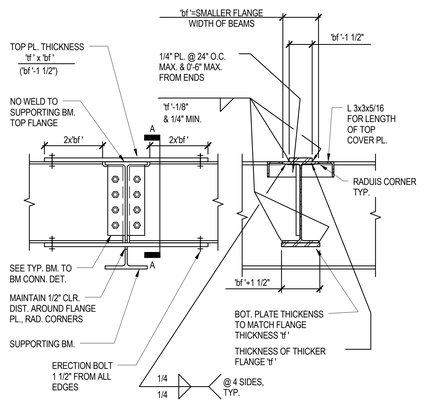
VA PAHCS Veterans Affairs Palo Alto Health Care System

Department of Veterans Affairs



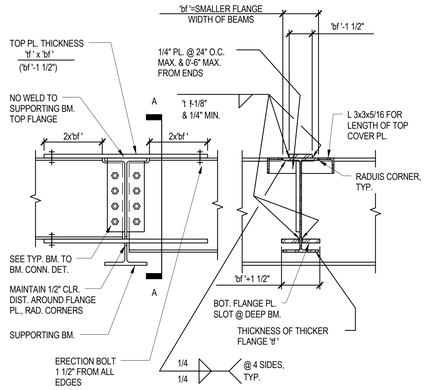
ELEVATION SECTION A-A

A BEAM WITH SAME DEPTH



ELEVATION SECTION A-A

B BEAM WITH VARYING DEPTH



ELEVATION SECTION A-A

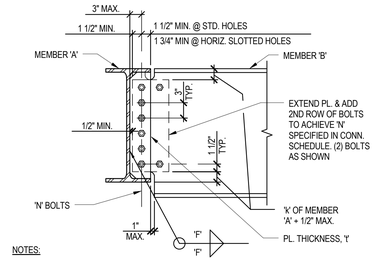
C STEPPED BEAMS

NOTES:

1. FLANGE PL. TO BE ASTM A572, GR. 50.
2. ERECTION BOLTS ALLOWED ONLY WERE INDICATED
3. NOTED ON PLAN.

20 BM TO BM MOMENT CONN.

1" = 1'-0"

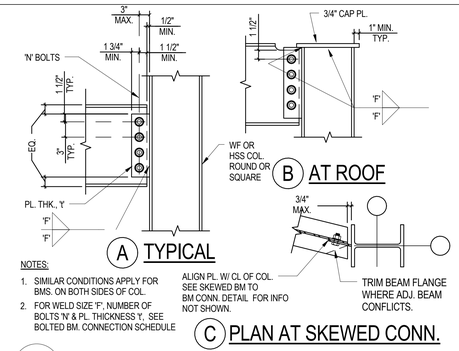


NOTES:

1. SIMILAR CONDITIONS APPLY FOR BEAMS ON BOTH SIDES OF MEMBER 'A'.
2. FOR WELD SIZE 'F' NUMBER OF BOLTS 'N' AND PLATE THICKNESS 't', SEE BOLTED BEAM TO BEAM CONNECTION SCHEDULE.
3. SHORT SLOTTED HOLES IN SHEAR PLATE MAY BE USED.
4. IF MEMBER 'B' < 8", SEE BM TO BM CONN.-MEMBER 'A' > MEMBER 'B'.
5. BASE PARAMETERS IN CONNECTION SCHEDULE ON DEPTH OF MEMBER 'B'.

9 BM TO BM A≤B

N.T.S.



NOTES:

1. SIMILAR CONDITIONS APPLY FOR BMS. ON BOTH SIDES OF COL.
2. FOR WELD SIZE 'F', NUMBER OF BOLTS 'N' & PL. THICKNESS 't', SEE BOLTED BM. CONNECTION SCHEDULE

A TYPICAL

B AT ROOF

C PLAN AT SKEWED CONN.

5 WF TO STRONG WAY COL. DETAIL

N.T.S.

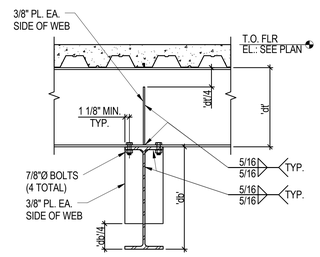
BEAM CONNECTION SCHEDULE				
NOMINAL MEMBER DEPTH	SHEAR PL. THICKNESS ('t')	FASTENERS A325-X U.O.N. ('N')	WELD SIZE ('F')	REMARKS
LESS THAN 12"	3/8"	(2) 7/8"Ø	5/16"	
12" THRU 14"	3/8"	(3) 7/8"Ø	5/16"	
16" THRU 18"	1/2"	(4) 7/8"Ø	3/8"	
21"	1/2"	(5) 7/8"Ø	3/8"	
24"	1/2"	(6) 7/8"Ø	3/8"	
27"	1/2"	(7) 7/8"Ø	3/8"	
30"	1/2"	(8) 7/8"Ø	3/8"	
33"	1/2"	(9) 7/8"Ø	3/8"	
36"	1/2"	(10) 7/8"Ø	3/8"	
40"	1" GR 50	(11) 7/8"Ø	5/8"	A490
44"	1" GR 50	(12) 7/8"Ø	5/8"	A490

NOTES:

1. BOLT HOLES TO BE STD. HOLES 1/16" GREATER THAN BOLT DIAMETER. SHORT SLOTTED HOLES IN SHEAR PLATE MAY BE USED ONLY WHERE NOTED.
2. BOLTS TO BE FULLY PRETENSIONED W/ HARDENED WASHERS, U.O.N.
3. SCHEDULE BASED ON NOMINAL DEPTH OF WIDE FLANGE BEAMS, CHANNELS, TUBES, & OTHER MISCELLANEOUS SHAPES.

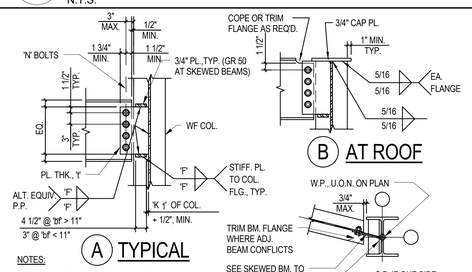
1 BOLTED BEAM SCHEDULE DETAIL

N.T.S.



10 STACKED BEAM CONN.

N.T.S.



A TYPICAL

NOTES:

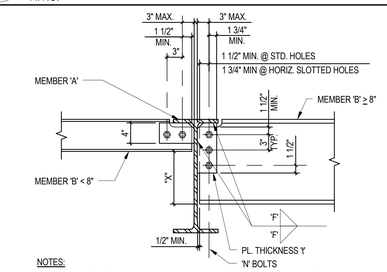
1. SIMILAR CONDITIONS APPLY FOR BMS. ON BOTH SIDES OF COL.
2. FOR WELD SIZE 'F', NUMBER OF BOLTS 'N' & PL. THICKNESS 't', SEE BOLTED BM. CONNECTION

B AT ROOF

C PLAN AT SKEWED CONN.

6 WF TO WEAK WAY COL. DETAIL

N.T.S.

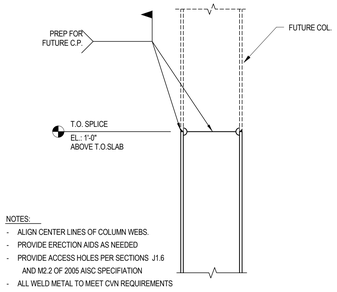


NOTES:

1. DETAIL APPLIES TO TWO SIDED CONNECTIONS AS SHOWN, IF BEAM FRAMES ONE SIDE ONLY OR X > 4", USE FULL DEPTH BEAM TO BEAM CONNECTION DETAIL.
2. FOR WELD 'F', NUMBER OF BOLTS 'N', AND PLATE THICKNESS 't', SEE BOLTED BEAM CONNECTION SCHEDULE.
3. SHORT SLOTTED HOLES IN SHEAR PLATE MAY BE USED.

2 BEAM TO BEAM CONNECTION DETAIL

N.T.S.

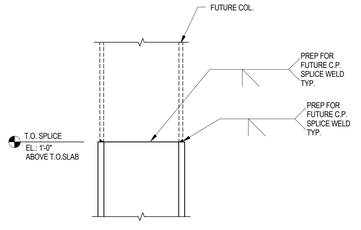


NOTES:

- ALIGN CENTER LINES OF COLUMN WEBS.
- PROVIDE ERECTION AIDS AS NEEDED
- PROVIDE ACCESS HOLES PER SECTIONS J1.6 AND M2.2 OF 2005 AISC SPECIFIATION
- ALL WELD METAL TO MEET CVN REQUIREMENTS

15 SCBF FRAME COL. SPLICE

N.T.S.

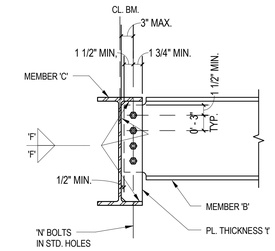


NOTE:

1. ALIGN CENTERLINES OF COLUMN WEBS.
2. PROVIDE ERECTION AIDS AS NEEDED.

11 GRAVITY COLUMN SPLICE DETAIL

N.T.S.

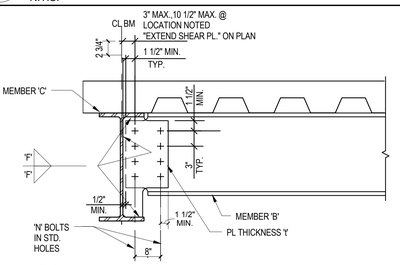


NOTES:

1. MEMBER 'B' NOTED ON PLAN.
2. FOR WELD SIZE 'F', NUMBER OF BOLTS 'N' & PLATE THICKNESS 't' . SEE BOLTED BEAM SCHEDULE.

7 FULL DEPTH BRACING CONN. SINGLE ROW MEMBER 'B' > W10

N.T.S.

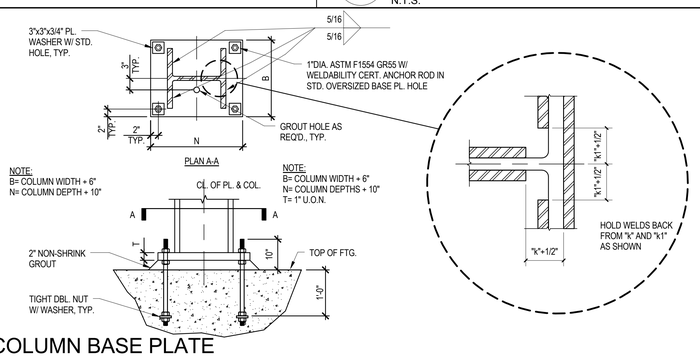


NOTES:

1. MEMBER 'B' NOTED ON PLAN.
2. FOR WELD SIZE 'F' & PL THICKNESS 't' SEE BOLTED BM CONNECTION SCHEDULE.
3. INSTALL 2 ROWS OF 'N' BOLTS. FOR NUMBER OF BOLTS, SEE BOLTED BM. SCHEDULE (TOTAL=2x'N')

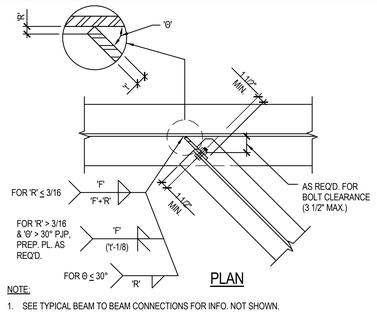
3 FULL DEPTH BRACING CONN. DOUBLE ROW DETAIL

N.T.S.



12 GRAVITY COLUMN BASE PLATE FOR WF

N.T.S.



PLAN

NOTE:

1. SEE TYPICAL BEAM TO BEAM CONNECTIONS FOR INFO. NOT SHOWN.

4 SKEWED BEAM

N.T.S.

ISSUE FOR BID

Revisions	Date
9	
8	
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Vancouver ■ Victoria ■ Washington DC

Drawing Title: TYPICAL STEEL DETAILS

Approved: Project Director: JM

Project Title: VA SIMULATION CENTER

Location: Veterans Affairs Palo Alto Heath Care System, 3801 Miranda Ave,Palo Alto, CA 94304

Date: JUNE 14, 2013 | Checked: RMG | Drawn: KLM

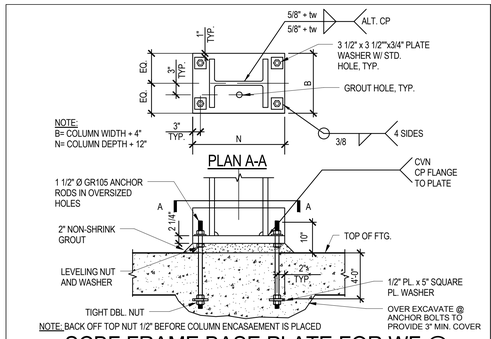
VA Project Number: 640-385

Building Number: 105

Drawing No. S1501

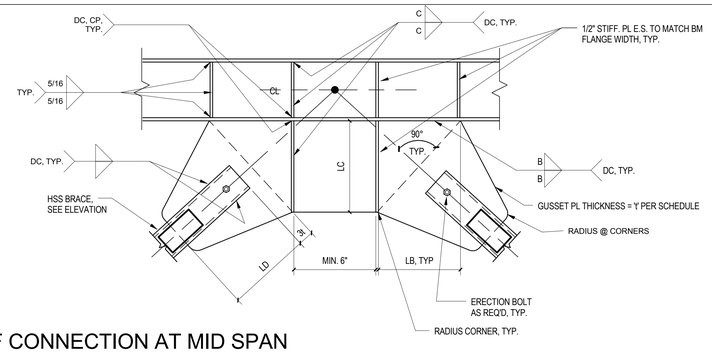
VA PAHCS Veterans Affairs Palo Alto Health Care System

Department of Veterans Affairs



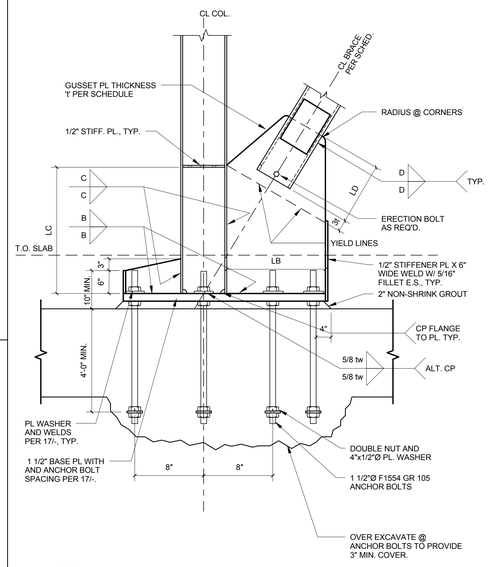
17 SCBF FRAME BASE PLATE FOR WF @ SLRS

N.T.S.



13 SCBF CONNECTION AT MID SPAN TOP

N.T.S.

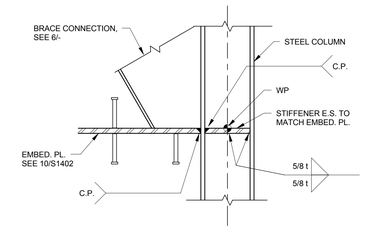


NOTES:

1. FOR GUSSET PLATE THICKNESS 't', LB, LC, LD AND WELD SIZES B, C AND D, SEE BRACE CONN. SCHEDULE.

6 TYP. BRACE TO FOUNDATION CONNECTION

N.T.S.



NOTE: t = THICKNESS OF PL.

1 SCBF DRAG PLATE CONNECTION

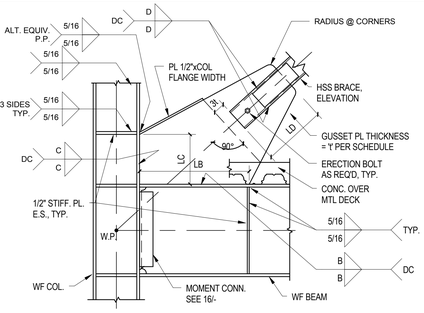
N.T.S.

SCBF BRACE CONNECTION SCHEDULE

CONNECTION ID	REFERENCE DETAIL	GUSSET THICKNESS (t)	WELD LENGTH			WELD SIZE		
			"LB"	"LC"	"LD"	"B"	"C"	"D"
			in.	in.	in.	in.	in.	in.
GP1	1	1 1/4 IN.	29	39	20	5/16 IN.	5/16 IN.	5/16 IN.
GP2	1	1 3/8 IN.	30	42	20	5/16 IN.	5/16 IN.	5/16 IN.
GP3	1	1 IN.	23	30	17	5/16 IN.	5/16 IN.	5/16 IN.
GP4	1	1 1/8 IN.	33	42	22	5/16 IN.	5/16 IN.	5/16 IN.
GP5	6	1 1/4 IN.	29	39	20	5/16 IN.	5/16 IN.	5/16 IN.
GP6	6	1 3/8 IN.	30	42	20	5/16 IN.	5/16 IN.	5/16 IN.
GP7	6	1 1/4 IN.	27	39	17	5/16 IN.	5/16 IN.	5/16 IN.
GP8	6	1 IN.	30	38	22	5/16 IN.	5/16 IN.	5/16 IN.
GP9	13	1 IN.	33	20	20	5/16 IN.	5/16 IN.	5/16 IN.
GP10	13	1 IN.	32	18	20	5/16 IN.	5/16 IN.	5/16 IN.
GP11	13	1 IN.	29	16	17	5/16 IN.	5/16 IN.	5/16 IN.
GP12	13	1 IN.	42	35	22	5/16 IN.	5/16 IN.	5/16 IN.
GP13	2	1 IN.	30	16	20	5/16 IN.	5/16 IN.	5/16 IN.
GP14	2	1 IN.	34	24	22	5/16 IN.	5/16 IN.	5/16 IN.
GP15	20	1 1/4 IN.	44	26	22	5/16 IN.	5/16 IN.	5/16 IN.
GP16	13	1 IN.	42	42	20	5/16 IN.	5/16 IN.	5/16 IN.
GP17	13	1 IN.	37	37	22	5/16 IN.	5/16 IN.	5/16 IN.

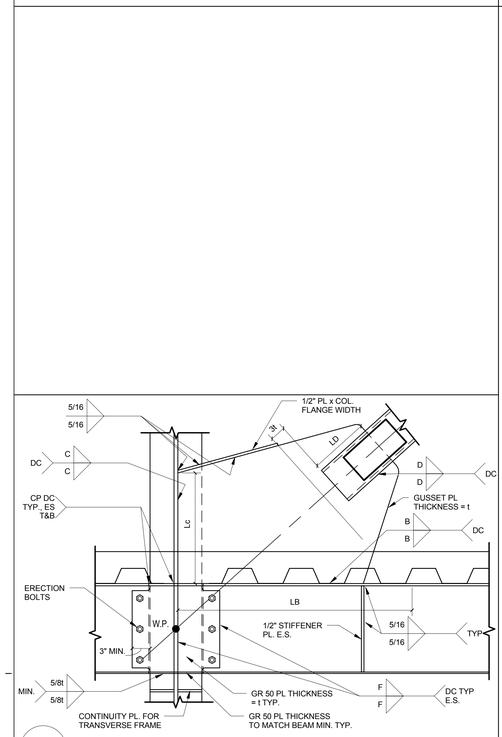
14 SCBF BRACE CONNECTION SCHEDULE

N.T.S.



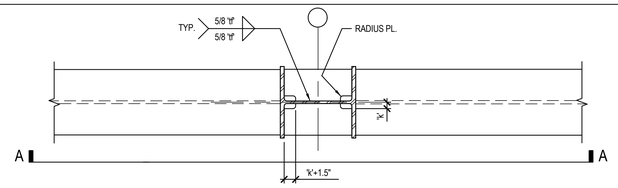
2 SCBF BOTTOM CONNECTION STRONG WAY

N.T.S.

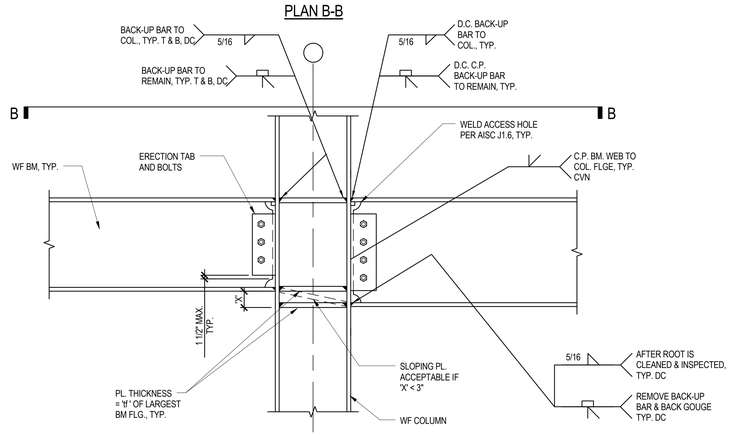


20 SCBF TO WEAK WAY COL

1" = 1'-0"



PLAN B-B



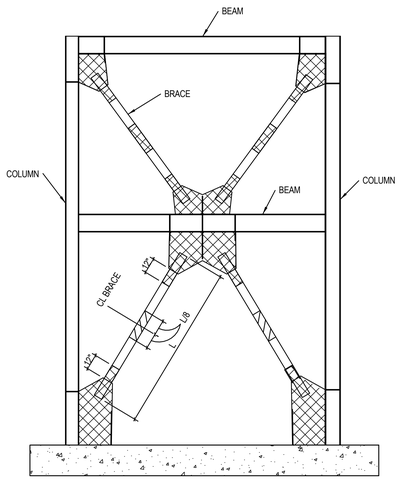
ELEVATION A-A

NOTE:

1. NOTED ON PLAN
2. SEE 3/13-S6.01 FOR ROOF CONDITIONS
3. REMOVE RUN OFF TABS AND GRIND SMOOTH
4. ' tf ' = BEAM FLANGE THICKNESS

16 BEAM TO COLUMN MOMENT CONNECTION AT SCBF

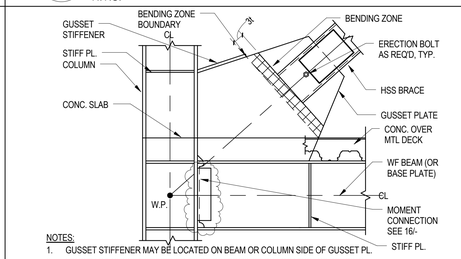
N.T.S.



BRACED FRAME PROTECTED ZONES. WELDED, BOLTED, SCREWED OR SHOT-IN ATTACHMENTS OF ANY TYPE, BY ANY TRADE ARE PROHIBITED WITHIN THE PROTECTED ZONES.

7 TYPICAL SCBF PROTECTED ZONES

N.T.S.

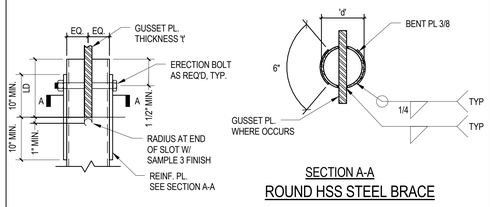


NOTES:

1. GUSSET STIFFENER MAY BE LOCATED ON BEAM OR COLUMN SIDE OF GUSSET PL.
2. LENGTH OF GUSSET STIFFENER TO BE DETERMINED BY LOCATION OF BENDING ZONE BOUNDARY.
3. BENDING ZONE BOUNDARY WILL BE PERPENDICULAR TO THE BRACE AND WILL INSTERSECT THE GUSSET AND TOP OF CONCRETE SLAB OR GUSSET AND COLUMN.
4. NEITHER THE HSS BRACE NOR THE GUSSET STIFFENER SHALL INTRUDE INTO THE BENDING ZONE.
5. THE BENDING ZONE WILL NOT EXTEND INTO THE CONCRETE SLAB.

3 TYPICAL SCBF BENDING ZONE

N.T.S.



SECTION A-A
ROUND HSS STEEL BRACE

4 SCBF STEEL ROUND HSS CONNECTION

N.T.S.

ISSUE FOR BID

Revisions	Date
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Vancouver ■ Victoria ■ Washington DC

Drawing Title: TYPICAL BRACED FRAME DETAILS

Project Title: VA SIMULATION CENTER

VA Project Number: 640-385

Building Number: 105

Approved: Project Director JM

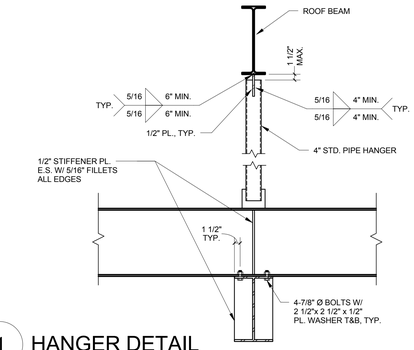
Location: Veterans Affairs Palo Alto Heath Care System, 3801 Miranda Ave,Palo Alto, CA 94304

Date: JUNE 14, 2013 | Checked: RMG | Drawn: KLM

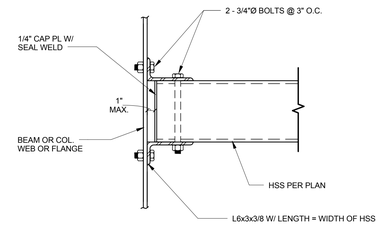
Drawing No. S1502

VA PAHCS Veterans Affairs Palo Alto Health Care System

Department of Veterans Affairs



1 HANGER DETAIL
N.T.S.



2 HSS CONN. @ SCREEN WALL
1 1/2" = 1'-0"

ISSUE FOR BID

Revisions	Date
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CONSULTANTS:

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St. Louis ■ San Francisco ■ Shanghai ■ Toronto
Vancouver ■ Victoria ■ Washington DC

Drawing Title
STEEL DETAILS

Approved: Project Director
Approver

Project Title
VA SIMULATION CENTER

Location
Veterans Affairs Palo Alto Heath Care System
3801 Miranda Ave,Palo Alto, CA 94304

Date
JUNE 14, 2013

Checked
Checker

Drawn
Author

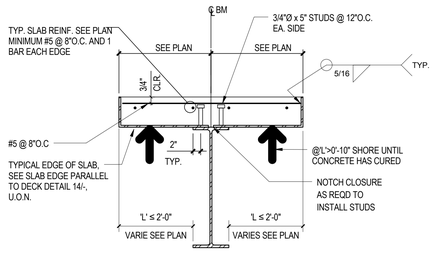
VA Project Number:
640-385

Building Number:
105

Drawing No.
S1505

VA PAHCS
Veterans Affairs
Palo Alto Health Care System

Department of Veterans Affairs



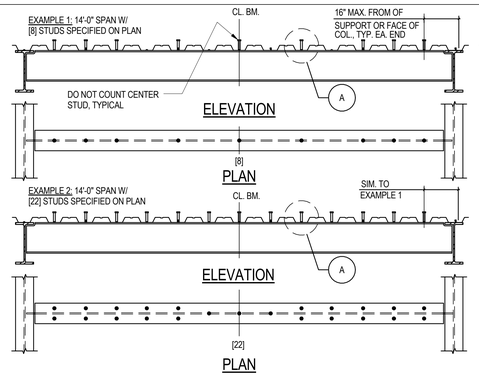
13 DECK SUPPORT

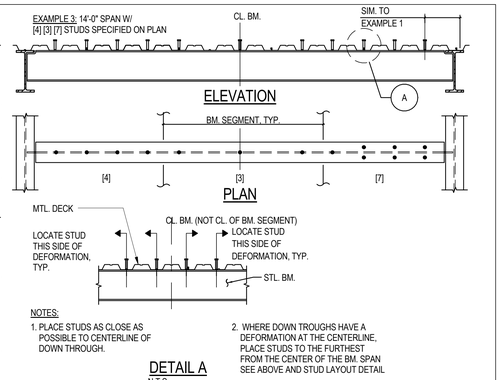
1" = 1'-0"

NOTES:

1. MIN. NO. OF STUDS REQUIRED PER SEGMENT OF BM IS SHOWN AS [...] ON FRAMING PLANS.
2. WHERE NO INDICATION IS GIVEN, PROVIDE STUDS AT 1'-0" O.C. MAX.
3. FOR DECK PARALLEL TO BM UNIFORMLY SPACE STUDS ALONG CENTERLINE OF BM SEGMENT NO CLOSER THAN 4 1/2" O.C., SEE STUD PLACEMENT DET. FOR MORE INFO.
4. FOR DECK PERPENDECULAR OR SKEWED TO BM, PLACE REQUIRED NO. OF STUDS EQUALLY ALONG THE LENGTH OF BM SEGMENT FOR SPACING GREATER THAN 2'-0" O.C. OTHERWISE USE THE FOLLOWING METHOD:

STEP A: PLACE STUDS IN ALTERNATE THROUGHS STARTING AT EA. END.
STEP B: PLACE ONE HALF OF REMAINING STUDS AT EA. END IN THE REMAINING THROUGHS STARTING AT THE END SUPPORT.
STEP C: AFTER A STUD HAS BEEN PLACED IN EA. THROUGH, PLACE A SECOND STUD PER THROUGH STARTING AT EA. END. SIM. FOR THREE STUDS PER THROUGH UNTIL THE PLAN SPECIFICATION [...] HAS BEEN MET. SEE EXAMPLES 1, 2 & 3.





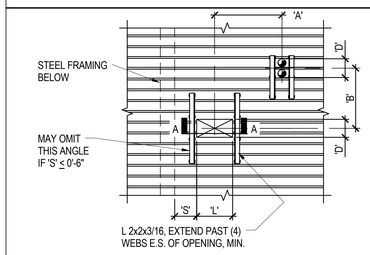
NOTES:

1. PLACE STUDS AS CLOSE AS POSSIBLE TO CENTERLINE OF DOWN THROUGH.
2. WHERE DOWN TROUGHS HAVE A DEFORMATION AT THE CENTERLINE, PLACE STUDS TO THE FURTHEST FROM THE CENTER OF THE BM. SPAN SEE ABOVE AND STUD LAYOUT DETAIL

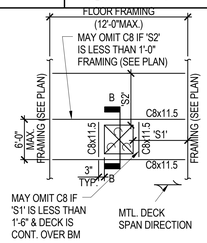
DETAIL A
N.T.S.

9 STUD PLACEMENT DETAIL

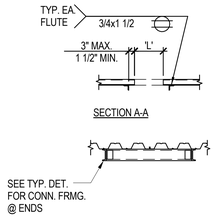
N.T.S.



A ANGLE REINF.



B FRAMED OPENING



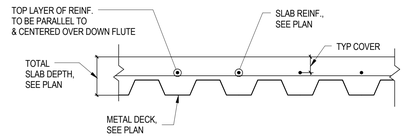
SECTION B-B

NOTES:

1. DETAIL 'B' APPLICABLE TO ALL OPENINGS.
2. DETAIL 'A' APPLICABLE ONLY TO OPENINGS SATISFYING ALL OF THE FOLLOWING:
   'D' ≤ 2'-0" (DIM. PERPENDICULAR TO DECK SPAN)
   'L' ≤ 2'-0" (DIM. PARALLEL TO DECK SPAN)
   'A' OR 'B' GREATER THAN 4D & 32", WHERE 'D' IS MAX. OF ADJACENT OPENINGS (DIMENSIONS TO ADJACENT OPENINGS).

18 NON-COMPOSITE DECK OPENING REINFORCING

N.T.S.

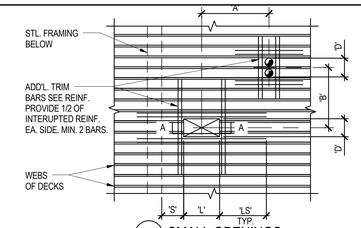


NOTES:

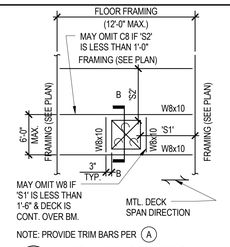
1. PROVIDE REINF. LAYERS A SHOWN U.O.N.
2. SEE 5/13-S7.00 FOR CONDITION AT SLAB EDGE.

10 METAL DECK CONC. FILL

NTS

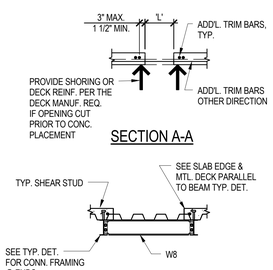


A SMALL OPENINGS



NOTE: PROVIDE TRIM BARS PER (A)

B FRAMED OPENING



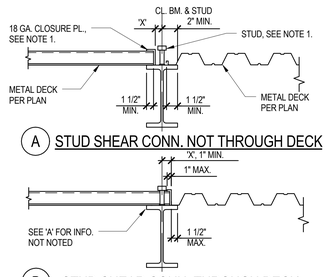
SECTION B-B

NOTES:

1. DETAIL 'B' APPLICABLE TO ALL OPENINGS.
2. DETAIL 'A' APPLICABLE ONLY TO OPENINGS SATISFYING ALL OF THE FOLLOWING:
   'D' ≤ 16" (DIM. PERPENDICULAR TO DECK SPAN)
   'L' ≤ 4'-0" (DIM. PARALLEL TO DECK SPAN)
   'A' OR 'B' GREATER THAN 4D & 32", WHERE 'D' IS MAX. OF ADJACENT OPENINGS (DIMENSIONS TO ADJACENT OPENINGS).
3. HOLES UP TO 6" MAX. IN BOTH DIRECTIONS MAY OMIT TRIM REINF. PROVIDED NO MORE THAN ONE RIB IS CUT.

6 COMPOSITE DECK OPENING REINFORCING

N.T.S.



A STUD SHEAR CONN. NOT THROUGH DECK

B STUD SHEAR CONN. THROUGH DECK

NOTES:

1. AT LOCATIONS WHERE CLEARANCE 'X' TO STUD PLATE IS LESS THAN 1 1/2", PROVIDE CLOSURE BELOW HIGH FLUTES ONLY AND PLACE STUDS ADJACENT TO OPEN LOW FLUTES.

19 DECK TRANSITION

N.T.S.

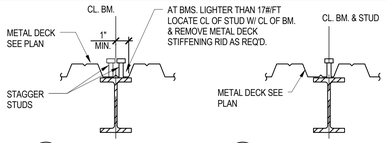
SLAB TYPE	DECK TYPE	HEIGHT	GAUGE	FACTORY VENTED	MINIMUM SECTION PROPERTIES			FILL		STUD SIZE	SLAB REINFORCING	ATTACHMENT TYPE				SIDE LAP	REMARKS
								TYPE	MINIMUM THICKNESS ABOVE TOP FLUTE			TO PERIMETER SUPPORT		TO INTERMEDIATE SUPPORT			
					I (IN^4)	S+ (IN^3)	S- (IN^3)					PERPENDICULAR TO DECK	PARALLEL TO DECK	PERPENDICULAR TO DECK	PARALLEL TO DECK		
S1	W	3"	18	YES	1.203	0.767	0.767	LIGHT WEIGHT CONCRETE	3 1/4"	3/4"Øx5"	#4 @ 12" O.C. , E.W.	1/2"Ø PUDDLE WELD AT ALL DOWN FLUTES	1/2"Ø PUDDLE WELD @ 12" O.C.	1/2"Ø PUDDLE WELD AT ALL DOWN FLUTES	1/2"Ø PUDDLE WELD @ 12" O.C.	BUTTON PUNCH	
S2	W	3"	18	YES	1.203	0.767	0.767	LIGHT WEIGHT CONCRETE	3 1/4"	3/4"Øx5"	#5 @ 10" O.C. , E.W.	1/2"Ø PUDDLE WELD AT ALL DOWN FLUTES	1/2"Ø PUDDLE WELD @ 12" O.C.	1/2"Ø PUDDLE WELD AT ALL DOWN FLUTES	1/2"Ø PUDDLE WELD @ 12" O.C.	BUTTON PUNCH	

NOTES:

1. WHENEVER POSSIBLE, DECK LAYOUTS SHALL PROVIDE SHEETS OF SUFFICIENT LENGTH TO SPAN CONTINUOUSLY ACROSS AT LEAST THREE SPANS. ENDS SHALL TERMINATE OVER A SUPPORT PERPENDICULAR TO THE DECK SPAN, EXCEPT AT OPENINGS OR BUILDING EDGES WHERE DECKS MAY BE CANTILEVERED.
2. PROVIDE A MINIMUM OF 2" BEARING AT SUPPORTING MEMBERS PERPENDICULAR TO DECK SPAN AND 1 1/2" AT MEMBERS PARALLEL TO DECK SPAN.
3. DIAMETER OF PUDDLE WELD SHOWN REPRESENTS EFFECTIVE FUSION AREA. SEE SPEC 53600 FOR WELD REQ'S.
4. EACH PUDDLE WELD SHOWN MAY BE REPLACED WITH A SHEAR STUD WELDED THROUGH DECK. CONCRETE FILL THICKNESS SHOWN ON FRAMING PLANS AND DETAIL SHEETS ARE MINIMUM THICKNESS. PROVIDE ADDITIONAL CONC. TO ACHIEVE FLAT FLOOR.
5. THICKNESS SHOWN ON FRAMING PLANS AND DETAIL SHEETS ARE MINIMUM THICKNESS. PROVIDE ADDITIONAL CONCRETE FILL AS REQUIRED TO COMPENSATE FOR BEAM OR DECK DEFLECTIONS AND TO MAINTAIN SURFACE TOLERANCES SPECIFIED.
6. HILTI SHOT PINS MAY REPLACE PUDDLE WELDS @ CONTRACTOR'S OPTION AT COMPOSITE CONCRETE ON METAL DECK SLABS, REPLACE @ 1:1.

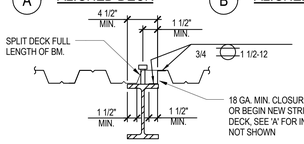
15 METAL DECK SCHEDULE

N.T.S.



A ALIGNED DECK

B ALIGNED DECK



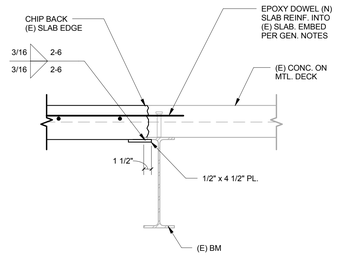
C OFFSET DECK

NOTE:

1. SEE ARCHITECTURAL AND MECHANICAL DRAWINGS FOR INSERTS NOT SHOWN.

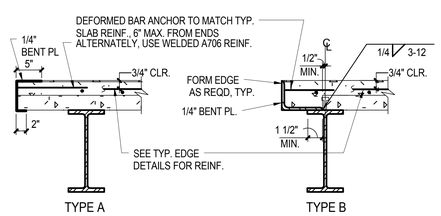
20 STUD DETAIL

N.T.S.



16 (E) SLAB EXTENSION

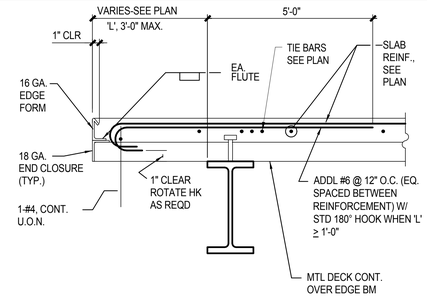
N.T.S.



NOTE: SEE PLAN FOR LOCATIONS.

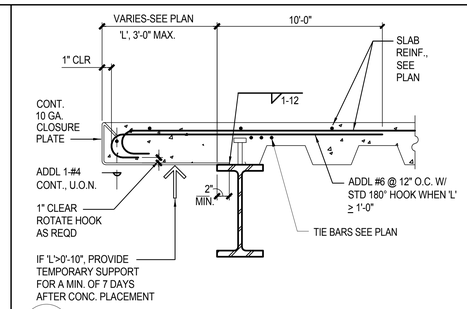
12 EDGE ANGLE

N.T.S.



8 SLAB EDGE PERPENDICULAR TO DECK

N.T.S.



4 SLAB EDGE PARALLEL TO DECK

N.T.S.

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Revisions	Date
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Vancouver ■ Victoria ■ Washington DC

Drawing Title: TYPICAL METAL DECK DETAILS

Approved: Project Director: JM

Project Title: VA SIMULATION CENTER

Location: Veterans Affairs Palo Alto Heath Care System, 3801 Miranda Ave,Palo Alto, CA 94304

Date: JUNE 14, 2013 | Checked: RMG | Drawn: KLM

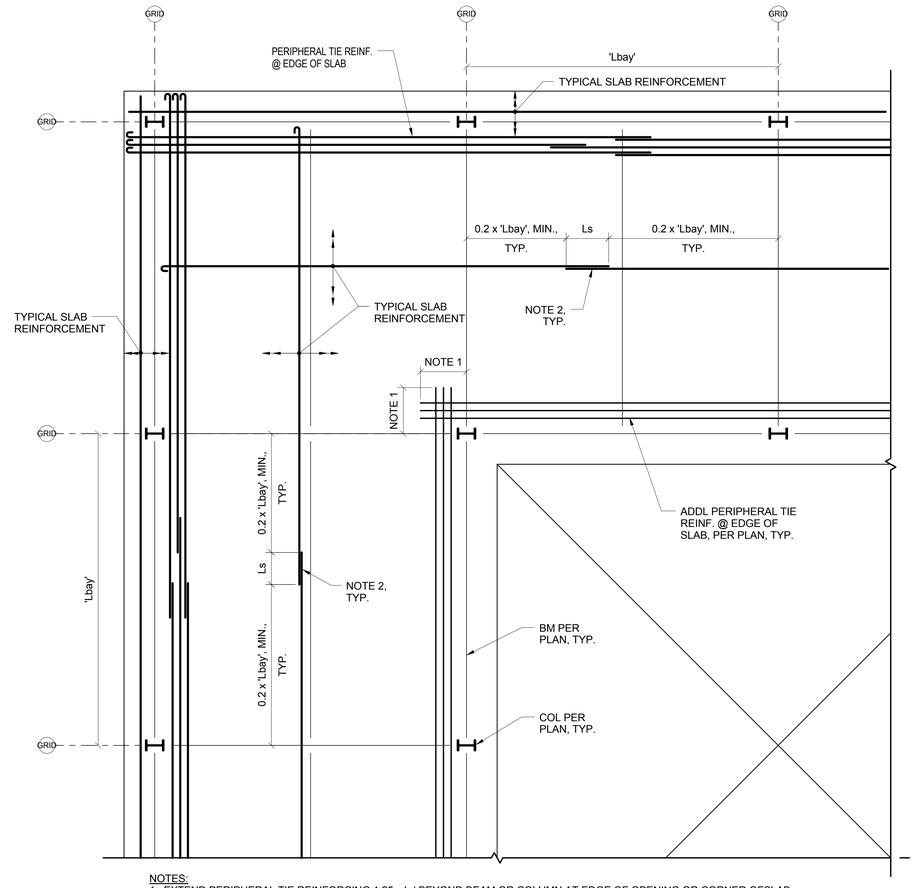
VA Project Number: 640-385

Building Number: 105

Drawing No. S1601

VA PAHCS Veterans Affairs Palo Alto Health Care System

Department of Veterans Affairs



NOTES:
1. EXTEND PERIPHERAL TIE REINFORCING 1.25 x Ld BEYOND BEAM OR COLUMN AT EDGE OF OPENING OR CORNER OFSLAB.
2. LOCATE REINFORCING SPLICE WITHIN MIDDLE 60% OF BAY WIDTH, AS INDICATED, THROUGH EXTENT OF SLAB. STAGGER ADJACENT SPLICES PER TYPICAL DETAILS.

7 FILL ON METAL DECK REINFORCING PLACEMENT
1/4" = 1'-0"

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Revisions	Date
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CONSULTANTS:

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Drawing Title: TYPICAL METAL DECK DETAILS

Approved: Project Director
Approver

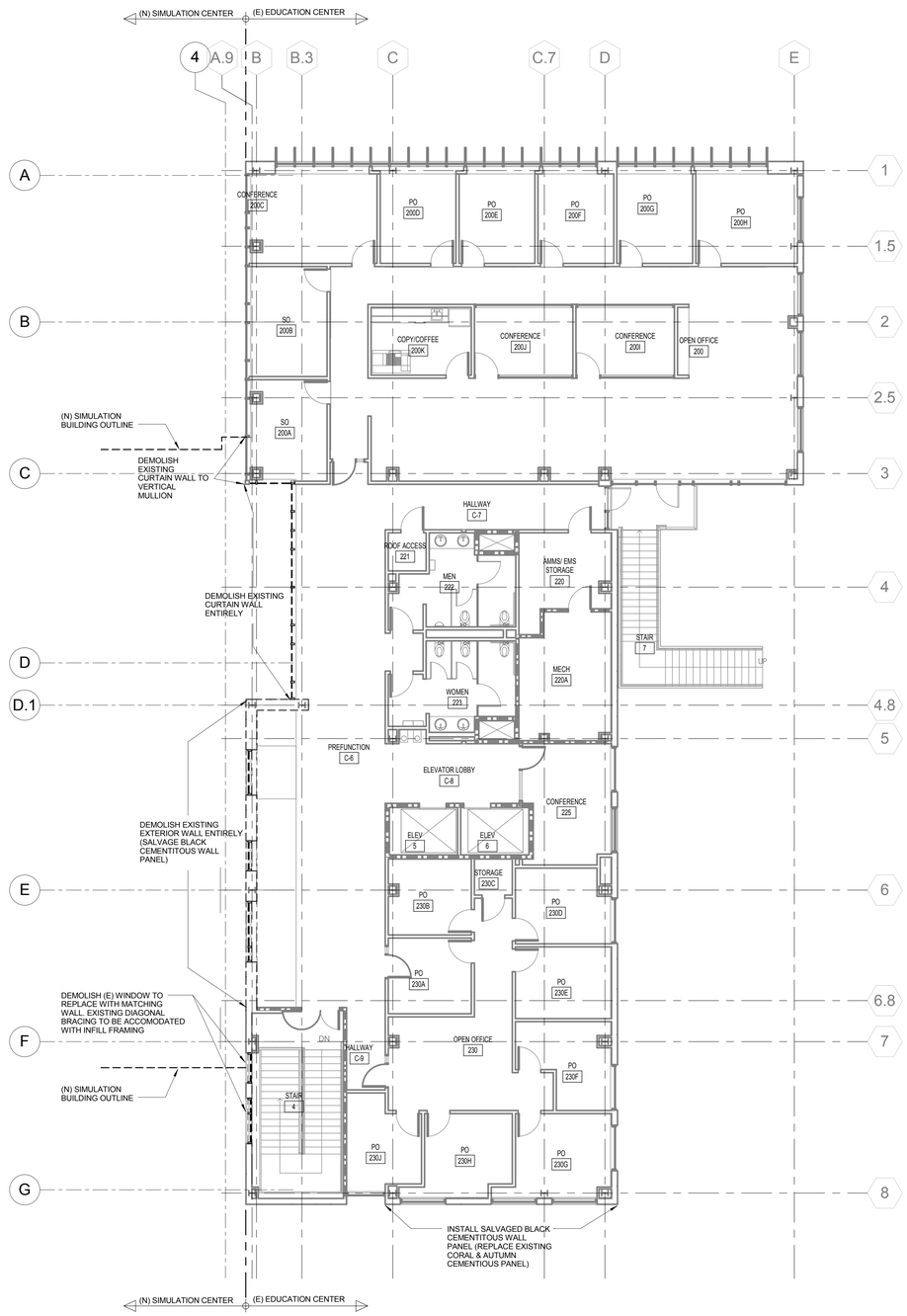
Project Title: VA SIMULATION CENTER

Location: Veterans Affairs Palo Alto Heath Care System
3801 Miranda Ave,Palo Alto, CA 94304

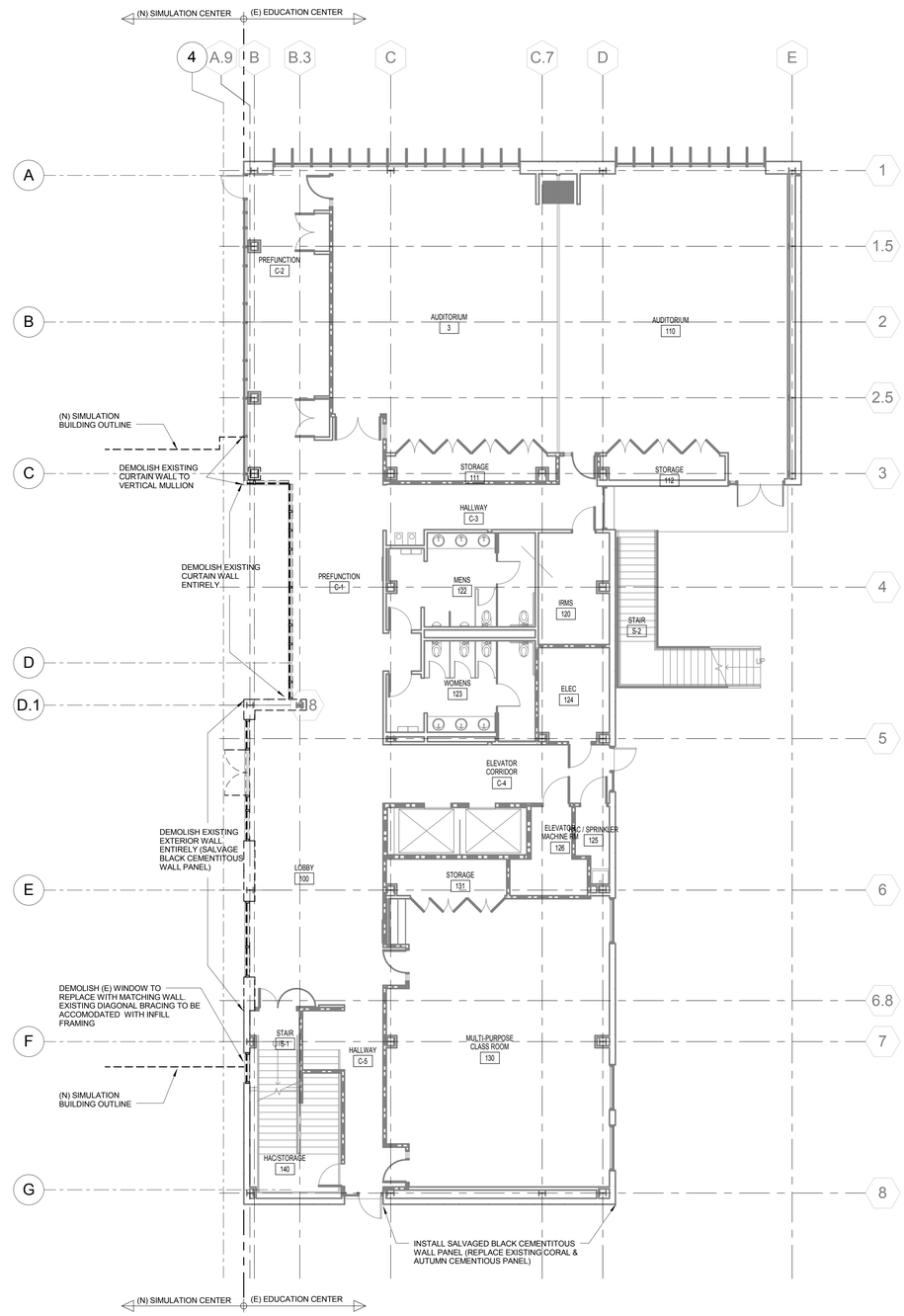
Date: JUNE 14, 2013
Checked: Checker
Drawn: Author

VA Project Number: 640-385
Building Number: 105
Drawing No. S1602

VA PAHCS Veterans Affairs Palo Alto Health Care System
Department of Veterans Affairs



2 LEVEL 2 - DEMOLITION PLAN
1/8" = 1'-0"



1 LEVEL 1 - DEMOLITON PLAN
1/8" = 1'-0"

GENERAL NOTES

KEY NOTES

LEGEND

PROJECT NORTH
TRUE NORTH

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Revisions	Date
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CONSULTANTS:

Seals and Signatures

ARCHITECT/ENGINEERS:

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Drawing Title
ARCHITECTURAL DEMOLITION PLAN - LEVEL 1 AND LEVEL 2

Approved: Project Director
Approver

Project Title
VA SIMULATION CENTER

Location
Veterans Affairs Palo Alto Heath Care System
3801 Miranda Ave,Palo Alto, CA 94304

Date
JUNE 14, 2013

Checked
CW

Drawn
WK

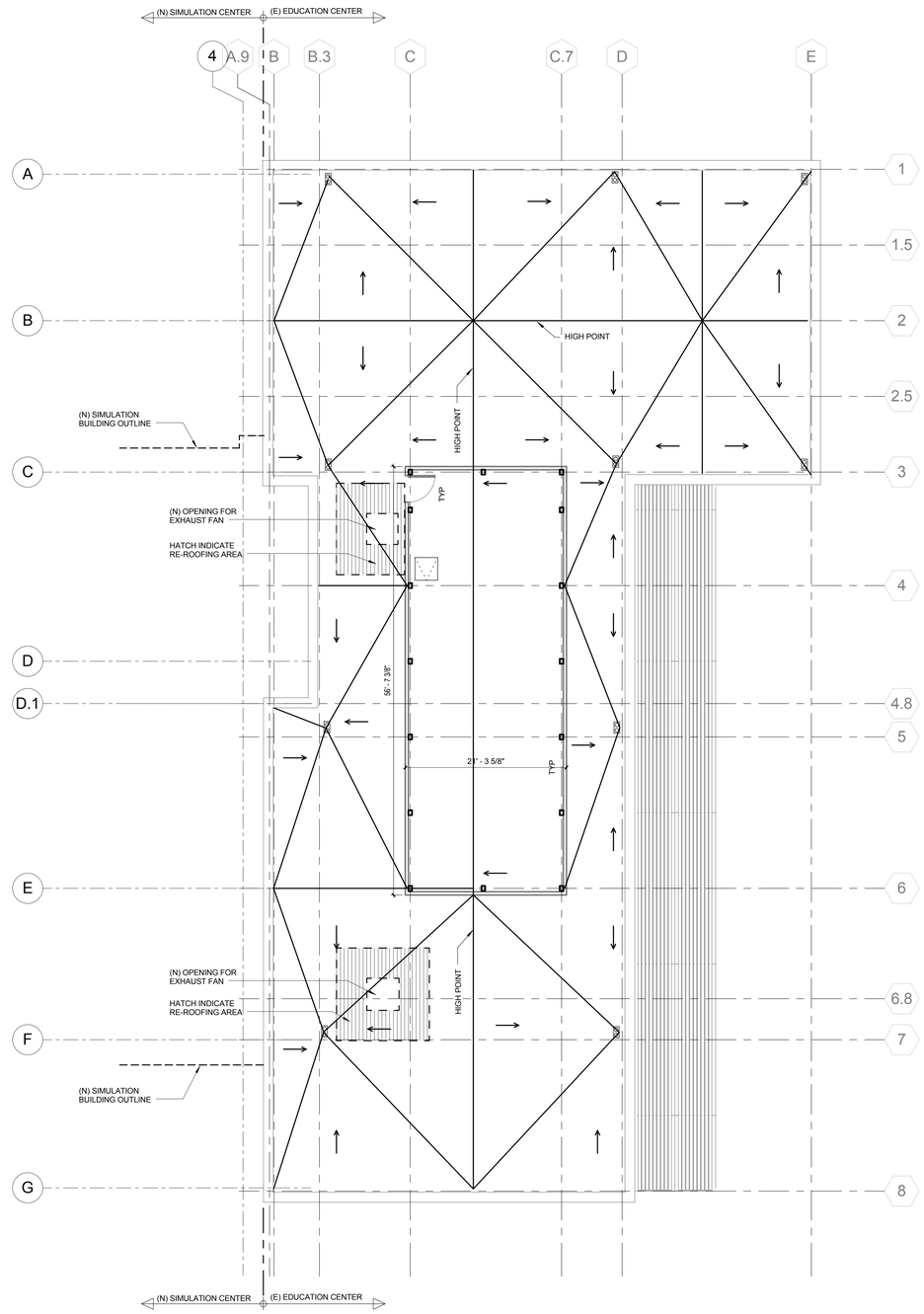
VA Project Number:
640-385

Building Number:
105

Drawing No.
AD001

VA PAHCS
Veterans Affairs Palo Alto Health Care System

Department of Veterans Affairs



1 ROOF - DEMOLITION PLAN
1/8" = 1'-0"

GENERAL NOTES

1. (E) RD/OFD TO REMAIN
2. (E) ROOF VENTS, CONDUITS, DUCTS TO REMAIN

KEY NOTES

LEGEND

PROJECT NORTH
TRUE NORTH

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CONSULTANTS:

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Drawing Title
ARCHITECTURAL DEMOLITION PLAN - ROOF PLAN

Approved: Project Director
Approver

Project Title
VA SIMULATION CENTER

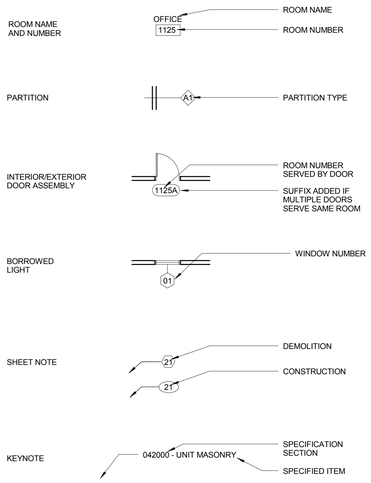
Location Veterans Affairs Palo Alto Heath Care System
3801 Miranda Ave,Palo Alto, CA 94304

Date JUNE 14, 2013
Checked CW
Drawn WK

VA Project Number: 640-385
Building Number: 105
Drawing No. AD002

VA PAHCS Veterans Affairs Palo Alto Health Care System
Department of Veterans Affairs

REFERENCE SYMBOLS (ARCHITECTURAL)



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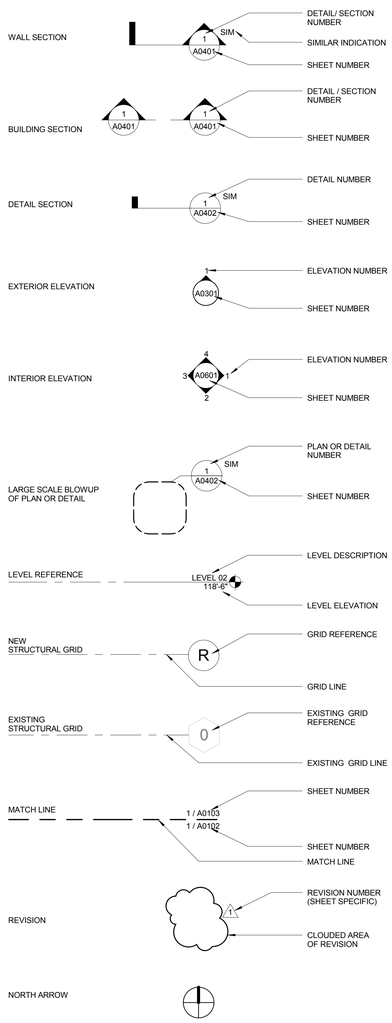

ABBREVIATIONS

AC	AIR CONDITIONING
ACC	ACCESSIBLE
ACM	ASBESTOS CONTAINING MATERIAL
ADJ	ADJACENT
AESS	ARCHITECTURALLY EXPOSED STRUCTURAL STEEL
AFF	ABOVE FINISHED FLOOR
AGF	ARCHITECTURAL GLASS FLOORING
AHU	AIR HANDLING UNIT
ALUM	ALUMINUM
ALT	ALTERNATE
APC	ACOUSTICAL PANEL CEILING
APPROX	APPROXIMATE
ARCH	ARCHITECT(URAL)
ASN	ABRASIVE STAIR NOSING
ATC	ACOUSTICAL TILE CEILING
AUTO	AUTOMATIC
AWP	ACOUSTICAL WALL PANEL
BLDG	BUILDING
BLKG	BLOCKING
BRG	BEARING
BSMT	BASEMENT
C	COURSE
CFCI	CONTR-FURN/CONTR-INST
CF	CONDUCTIVE FLOORING
CG	CORNER GUARD
CIP	CAST-IN-PLACE
CJ	CONTROL JOINT
CL	CENTERLINE
CLG	CEILING
CLO	CLOSET
CLR	CLEAR(ANCE)
CLRM	CLASSROOM
CMT	CERAMIC MOSAIC TILE
CMTB	CERAMIC MOSAIC TILE BASE
CMU	CONC MASONRY UNIT
CO	CLEAN OUT
COL	COLUMN
COMM	COMMUNICATION
CONC	CONCRETE
CONF	CONFERENCE
CONT	CONTINUOUS
CONTR	CONTRACT(OR)
CORR	CORRIDOR
CPT	CARPET(ING)
CR	CRASH RAIL
CT	CERAMIC TILE
CTB	CERAMIC TILE BASE
CUH	CABINET UNIT HEATER
CW	CASEWORK
DEMO	DEMOLISH(ITION)
DEPT	DEPARTMENT
DIA	DIAMETER
DIAG	DIAGONAL
DIM	DIMENSION
DN	DOWN
DS	DOWNSPOUT
EA	EACH
EIFS	EXTERIOR INSUL FINISH SYSTEM
EJ	EXPANSION JOINT
ELEC	ELECTRIC(AL)
EL	ELEVATION
ELEV	ELEVATOR
EM	ENTRANCE MATS
EMB	ELECTRONIC MARKER BOARD
EMER	EMERGENCY
EOS	EDGE OF SLAB
EQ	EQUAL
EQUIP	EQUIPMENT
ER	EPOXY RESIN
EST	ESTIMATE(D)
EXH	EXHAUST
EXIST	EXISTING
EXP	EXPANSION
EXPD	EXPOSED
EXT	EXTERIOR
EWC	ELECTRIC WATER COOLER
FD	FLOOR DRAIN
FDTN	FOUNDATION
FE	FIRE EXTINGUISHER
FEC	FIRE EXTINGUISHER CABINET
FG	FOOT GRILLE
FHC	FIRE HOSE CABINET
FHV	FIRE HOSE VALVE
FIN	FINISH(ED)
FLR	FLOOR
FT	FOOT/FEET
FTG	FOOTING
FURN	FURNISH(ED)(INGS)
FWP	FABRIC WRAPPED PANEL
GA	GAUGE / GAGE
GALV	GALVANIZED
GFRC	GLASS FIBER REINF CONCRETE
GFRG	GLASS FIBER REINF GYPSUM
GL	GLASS
GLMT	GLASS MOSAIC TILE
GLMU	GLASS MASONRY UNIT
GLT	GLASS TILE
GST	GLASS STAIR TREAD
GWB	GYPSUM WALL BOARD
GYP	GYPSUM
HDW	HARDWARE
HM	HOLLOW METAL
HORIZ	HORIZONTAL
HOSP	HOSPITAL
HP	HIGH POINT
HPC	HIGH PERFORMANCE COATING
HPL	HIGH PRESSURE DECORATIVE LAMINATE
HR	HANDRAIL
HSS	HOLLOW STRUCTURAL SECTION
HT	HEIGHT
HVAC	HEATING-VENTILATING-AIR CONDITIONING
HWB	HEAT WELDING BEAD
ID	INSIDE DIAMETER
INST	INSTALL(ED)
INSUL	INSULATION(ED)
INT	INTERIOR
JAN	JANITOR
JT	JOINT
KIT	KITCHEN
LAB	LABORATORY
LAM	LAMINATE(D)
LAV	LAVATORY
LGT	LENGTH
LH	LEFT HAND
LIN	LINOLEUM
LP	LOW POINT
LT	LIGHT
LTWT	LIGHTWEIGHT
LVT	LUXURY VINYL TILE
MACH	MACHINE
MARB	MARBLE
MAS	MASONRY
MATL	MATERIAL
MAX	MAXIMUM
MB	MARKER BOARD
MECH	MECHANICAL
MES	METAL EDGE STRIP
MEZZ	MEZZANINE
MFR	MANUFACTURER(D)
MIN	MINIMUM
MISC	MISCELLANEOUS
MO	MASONRY OPENING
MPC	METAL PANEL CEILING
MSS	METAL SUSPENSION SYSTEM
MTL	METAL
MW	MILLWORK
NIC	NOT IN CONTRACT
NO	NUMBER
NOM	NOMINAL
NTS	NOT TO SCALE
OC	ON CENTER
OD	OUTSIDE DIAMETER
OFCI	OWNER FURN/CONTR INST
OFF	OFFICE
OFOI	OWNER FURN/OWNER INST
OH	OVERHEAD
OPNG	OPENING
OPP	OPPOSITE
ORD	OVERFLOW ROOF DRAIN
PBD	PARTICLE BOARD
PCC	PRECAST CONCRETE
PCF	POUNDS PER CUBIC FOOT
PCONC	POLISHED CONCRETE
PERF	PERFORATE(D)
PL	PLATE
PLP	PLASTIC PANEL
PLYWD	PLYWOOD
PREFAB	PREFABRICATED
PREFIN	PREFINISHED
PRT	POLY RESIN TILE
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PLSHD	POLISHED
PMT	PORCELAIN MOSAIC TILE
PNT	PAINT(ED)
PT	PORCELAIN TILE
PTB	PORCELAIN TILE BASE
PTD	PAPER TOWER DISPENSER
QT	QUARRY TILE
QTB	QUARRY TILE BASE
QTY	QUANTITY
R	RISER
RAD	RADIUS
RAF	RESILIENT ATHLETIC FLOORING
RBF	RUBBER FLOORING
RBRT	RUBBER TILE
RCP	REFLECTED CLG PLAN
RD	ROOF DRAIN
REF	REFER(ENCE) TO
REFG	REFRIGERATOR
REINF	REINFORCED(ING)
REQD	REQUIRED
RES	RESILIENT
RESB	RESILIENT BASE
REV	REVISE (ISION)
RF	RESINOUS FLOORING
RFG	ROOFING
RH	RIGHT HAND
RM	ROOM
RO	ROUGH OPENING
ROW	RIGHT OF WAY
RSN	RESILIENT STAIR NOSING
RST	RESILIENT STAIR TREAD
RT	RESILIENT TILE
RTU	ROOF TOP UNIT
RV	RIGID VINYL
S	SEALED
SCD	SEAT COVER DISPENSER
SDF	STATIC DISSIPATIVE FLOORING
SD	SOAP DISPENSER
SECT	SECTION
SGT	STRUCTURAL GLAZED TILE
SHR	SHOWER
SHT	SHEET
SIM	SIMILAR
SM	SPECIALIZED METAL
SND	SANITARY NAPKIN DISPOSAL
SOG	SLAB-ON-GRADE
SP	SAFETY PAD
SPEC	SPECIFY(ICATION)
SQ	SQUARE
SS	SOLID SURFACE(ING)
SST	STAINLESS STEEL
ST	STONE
STC	SOUND TRANSMISSION CLASS
STD	STANDARD
STL	STEEL
STOR	STORAGE
STRUCT	STRUCTURE(AL)
SUSP	SUSPENDED
SV	SHEET VINYL
SWC	SPECIAL WALL COATING
T	TREAD
TB	TACK BOARD
TBD	TO BE DETERMINED
TEMP	TEMPORARY
TER	TERRAZZO
TERB	TERRAZZO BASE
TEXT	TEXTURE
THK	THICK(NESS)
TLT	TOILET
TOS	TOP OF STEEL
TOW	TOP OF WALL
TP	TANGENT POINT
TPD	TOILET PAPER DISPENSER
TS	TACKABLE SURFACE
TRSLT	TRANSLUCENT
TYP	TYPICAL
T&G	TONGUE & GROOVE
UC	UNDERCOUNTER
UPH	UPHOLSTERY
UNO	UNLESS NOTED OTHERWISE
VAC	VACUUM
VCT	VINYL COMPOSITION TILE
VEST	VESTIBULE
VET	VINYL ENHANCED TILE
VFCI	VA FURN/CONTR INST
VFVI	VA FURN/VA INST
VIF	VERIFY IN FIELD
VNL	VINYL
VTR	VENT THROUGH ROOF
VWC	VINYL WALL COVERING
WAF	WOOD ATHLETIC FLOORING
WC	WATER CLOSET
WCV	WALL COVERING
WD	WOOD
WDWTR	WINDOW TREATMENT
WP	WORK POINT
WPC	WOOD PANEL CEILING
WT	WEIGHT

GENERAL NOTES

KEY NOTES

LEGEND

PROJECT NORTH
TRUE NORTH

ISSUE FOR BID

Revisions		Date
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CONSULTANTS:

Seals and Signatures

ARCHITECT/ENGINEERS:

CANNONDESIGN

201 Mission Street, Suite 2400, San Francisco, California 94105 415.243.4170

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Vancouver ■ Victoria ■ Washington DC

Drawing Title
ARCHITECTURAL SYMBOL AND ABBREVIATIONS

Approved: Project Director
Approver

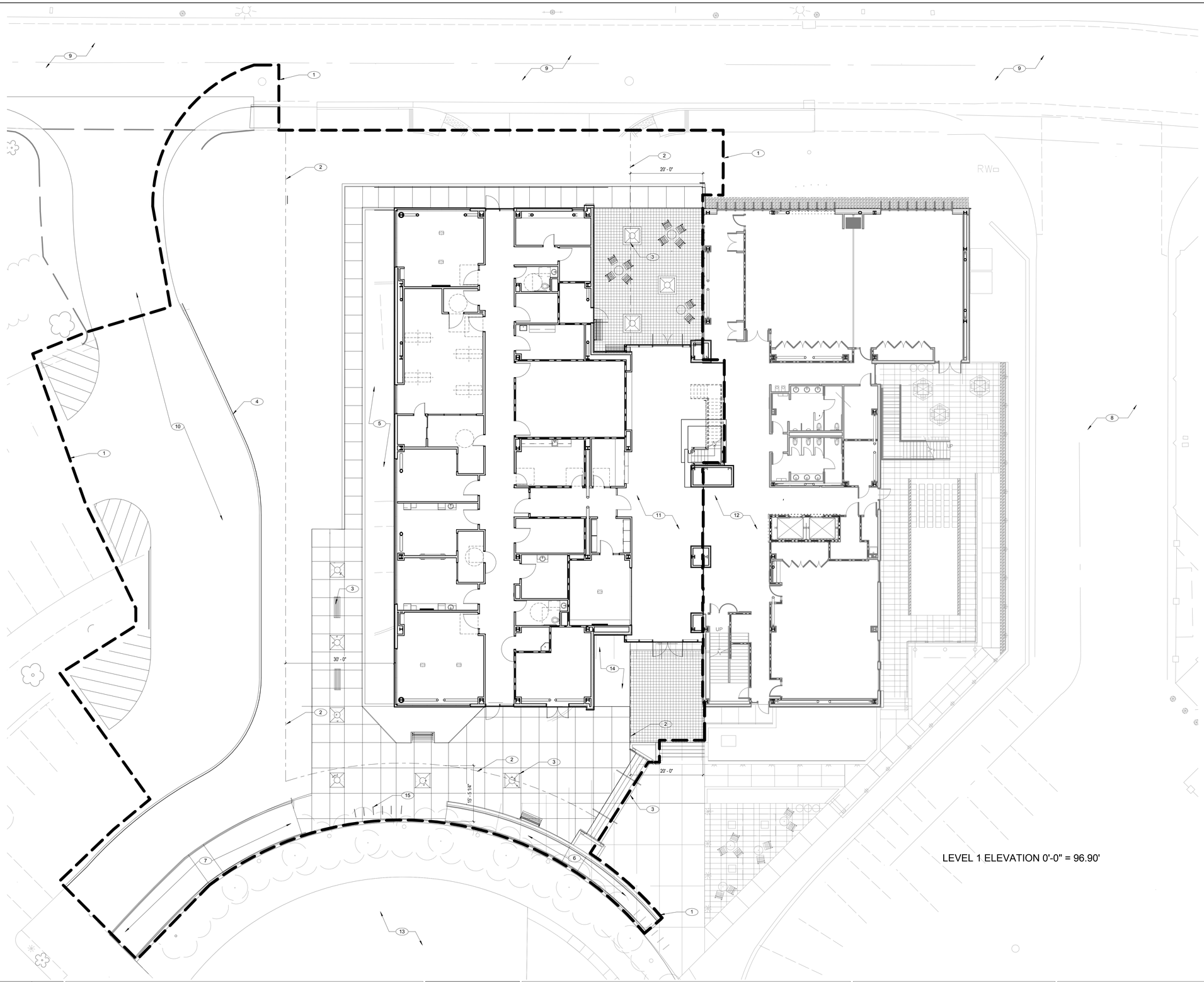
Project Title
VA SIMULATION CENTER

Location
Veterans Affairs Palo Alto Heath Care System
3801 Miranda Ave,Palo Alto, CA 94304

Date: JUNE 14, 2013
Checked: CW
Drawn: WK

VA Project Number: 640-385
Building Number: 105
Drawing No. A0000

VA PAHCS Veterans Affairs Palo Alto Health Care System
Department of Veterans Affairs



LEVEL 1 ELEVATION 0'-0" = 96.90'

GENERAL NOTES

KEY NOTES

1. LIMIT OF WORK
2. ASSUMED PROPERTY LINE (IMAGINARY LINE TO CALCULATE FIRE SEPARATION DISTANCE PER CBC TABLE 705.8)
3. LANDSCAPE ELEMENTS; SEE LANDSCAPE DRAWINGS
4. TEMPORARY CURB; SEE CIVIL DRAWINGS
5. FLOW THROUGH PLANTER; SEE CIVIL AND LANDSCAPE DRAWINGS
6. ACCESSIBLE ROUTE FROM BUILDING 101
7. ACCESSIBLE FOR ROUTE FROM FUTURE PARKING GARAGE
8. DRIVEWAY TO LOADING DOCK AT BUILDING 100
9. LOOP ROAD
10. FIRE LANE
11. SIMULATION CENTER
12. EXISTING BUILDING 105
13. EXISTING BUILDING 101
14. PLANTER; SEE LANDSCAPE DRAWINGS
15. BIKE RACK; SEE LANDSCAPE DRAWINGS

LEGEND

LIMIT OF WORK

PROJECT NORTH
TRUE NORTH

ISSUE FOR BID

Revisions	Date
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Seals and Signatures

ARCHITECT/ENGINEERS:

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Drawing Title: ARCHITECTURAL SITE PLAN

Approved: Project Director
Approver

Project Title: VA SIMULATION CENTER

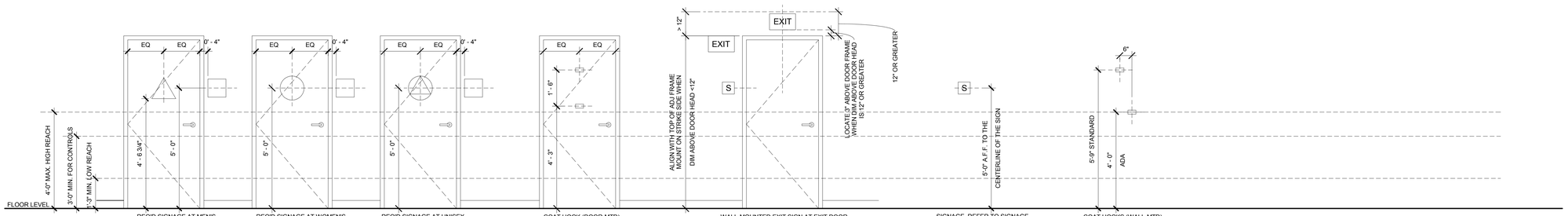
Location: Veterans Affairs Palo Alto Heath Care System
3801 Miranda Ave,Palo Alto, CA 94304

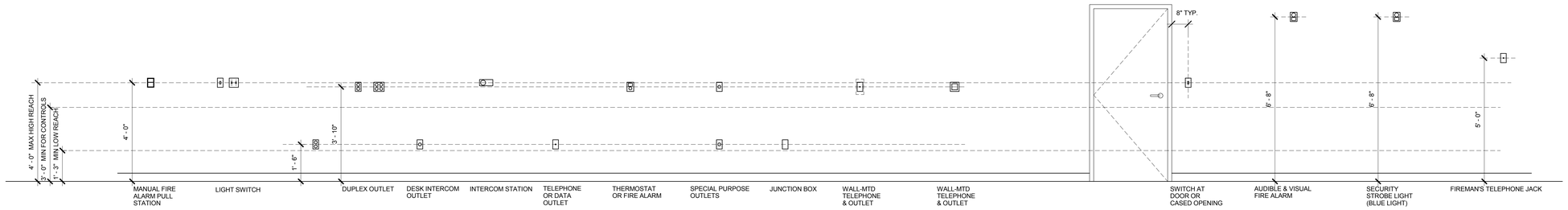
Date: JUNE 14, 2013
Checked: CW
Drawn: BK

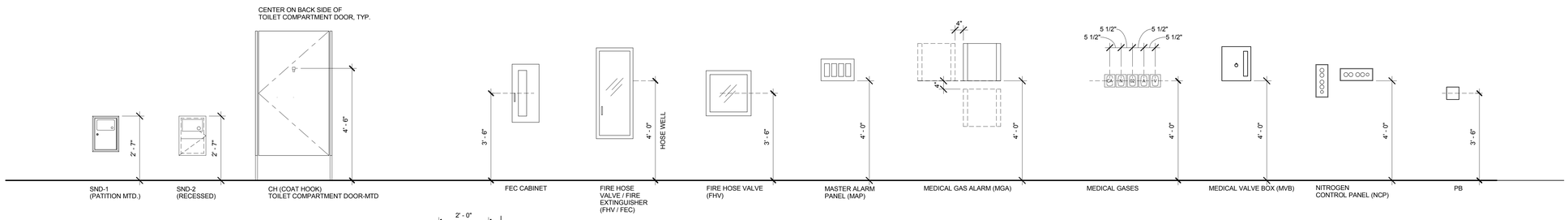
VA Project Number: 640-385
Building Number: 105
Drawing No. A0001

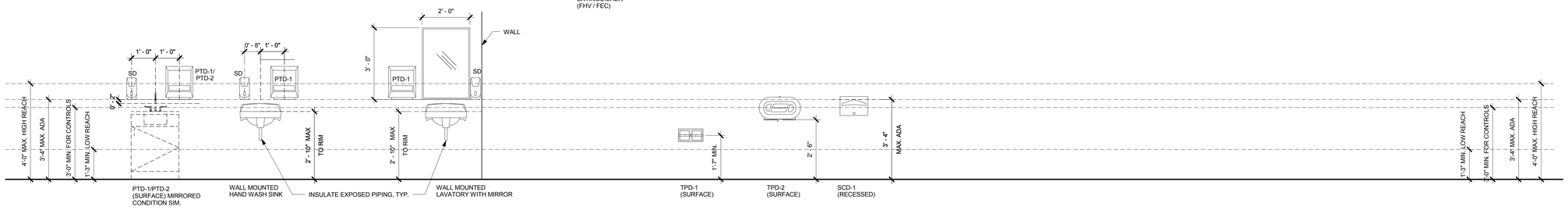
VA PAHCS Veterans Affairs Palo Alto Health Care System

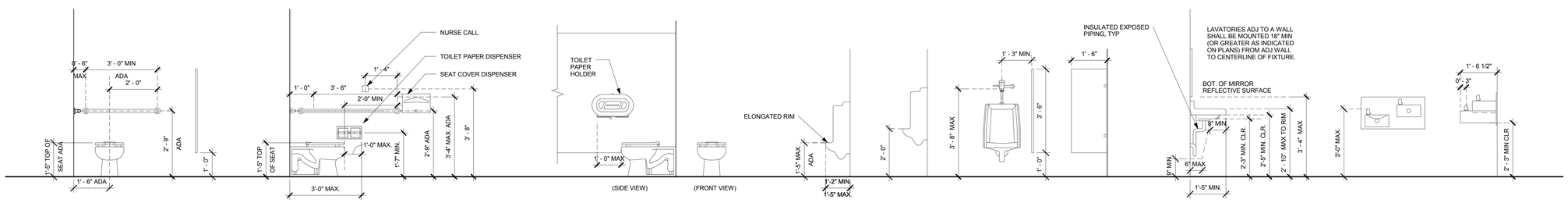
Department of Veterans Affairs











GENERAL NOTES

KEY NOTES

LEGEND

PROJECT NORTH
TRUE NORTH

ISSUE FOR BID

Revisions	Date
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CONSULTANTS:

Seals and Signatures

ARCHITECT/ENGINEERS:

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Drawing Title: TYPICAL MOUNTING HEIGHTS

Approved: Project Director
Approver

Project Title: VA SIMULATION CENTER

Location: Veterans Affairs Palo Alto Heath Care System, 3801 Miranda Ave,Palo Alto, CA 94304

Date: JUNE 14, 2013 | Checked: CW | Drawn: WK

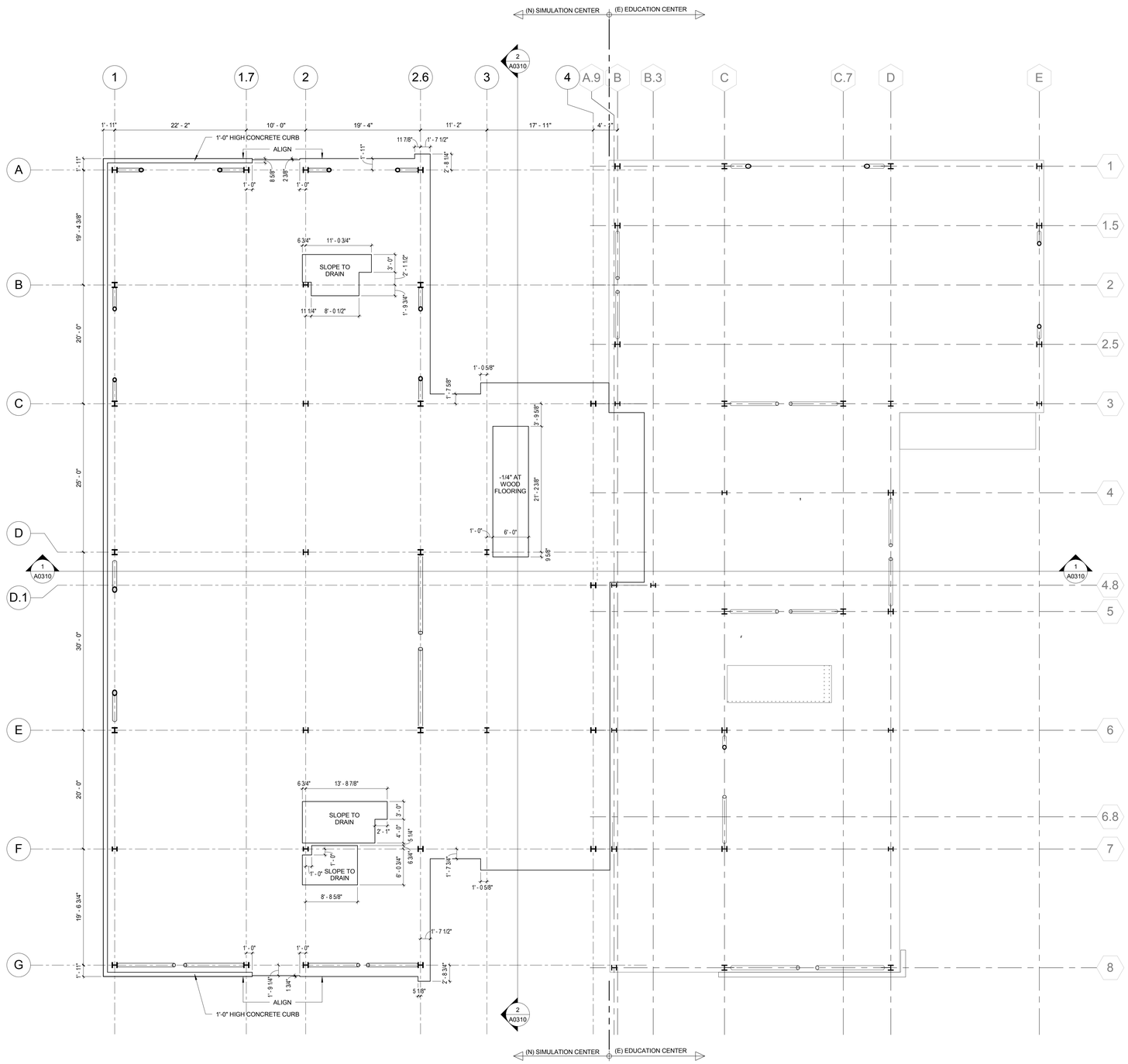
VA Project Number: 640-385

Building Number: 105

Drawing No. A0002

VA PAHCS Veterans Affairs Palo Alto Health Care System

Department of Veterans Affairs



GENERAL NOTES

1. COORIDINATE CONCRETE COLD JOINT LOCATION WITH FLOOR TILE EXPANSION JOINT (SEE A1202 & A1231 FOR FLOOR TILE PATTERN)

KEY NOTES

LEGEND

PROJECT NORTH
TRUE NORTH

ISSUE FOR BID

Revisions	Date
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ARCHITECT/ENGINEERS:

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Drawing Title: LEVEL 1 - SLAB EDGE PLAN

Approved: Project Director
Approver

Project Title: VA SIMULATION CENTER

Location: Veterans Affairs Palo Alto Heath Care System, 3801 Miranda Ave,Palo Alto, CA 94304

Date: JUNE 14, 2013 | Checked: CW | Drawn: BK

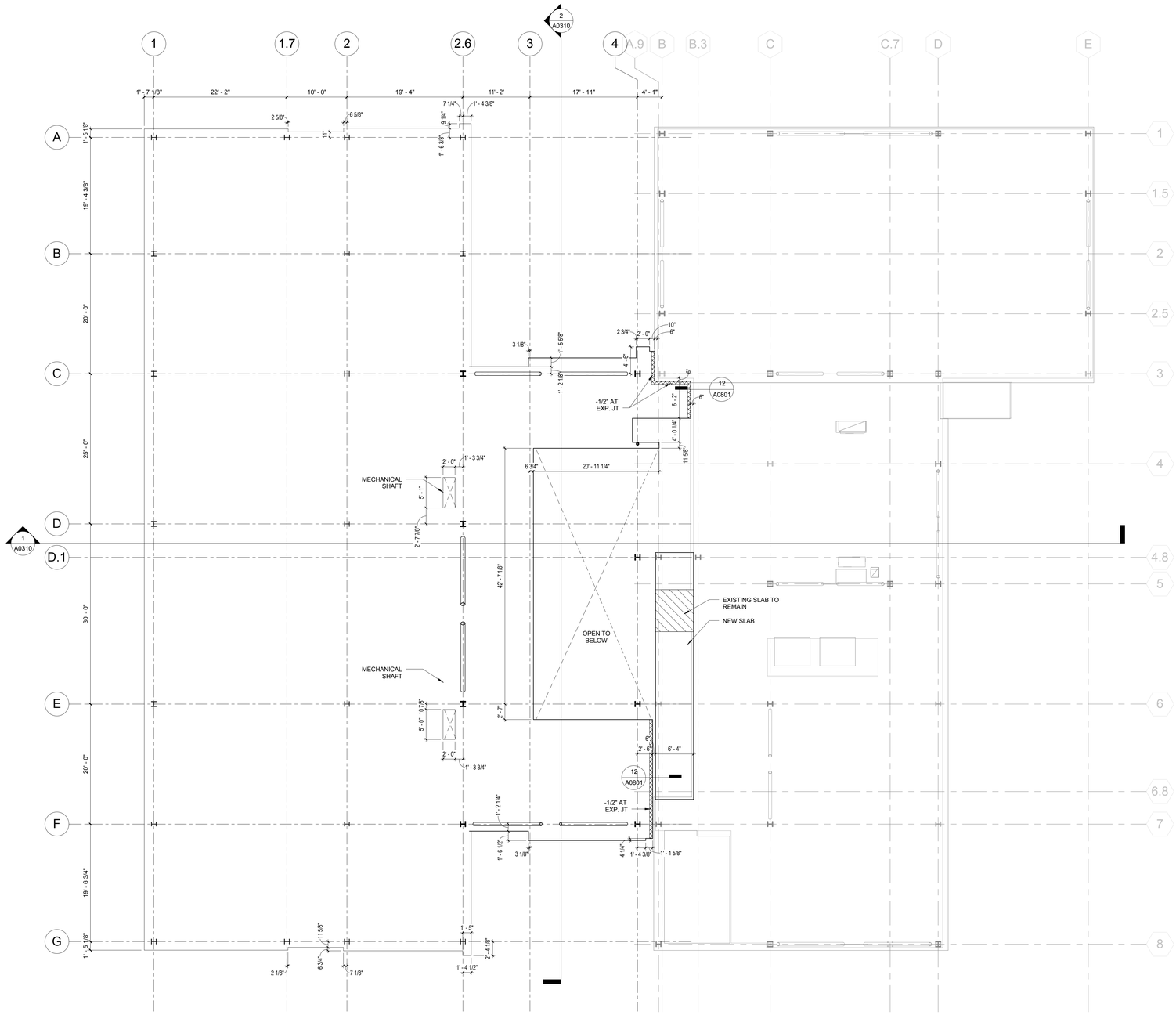
VA Project Number: 640-385

Building Number: 105

Drawing No. A0051

VA PAHCS Veterans Affairs Palo Alto Health Care System

Department of Veterans Affairs



GENERAL NOTES

1. COORIDINATE CONCRETE COLD JOINT LOCATION WITH FLOOR TILE EXPANSION JOINT (SEE A1202 & A1231 FOR FLOOR TILE PATTERN)

KEY NOTES

LEGEND

PROJECT NORTH
TRUE NORTH

ISSUE FOR BID

Revisions		Date
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CONSULTANTS:

Seals and Signatures

ARCHITECT/ENGINEERS:

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Drawing Title
LEVEL 2 - SLAB EDGE PLAN

Approved: Project Director
Approver

Project Title
VA SIMULATION CENTER

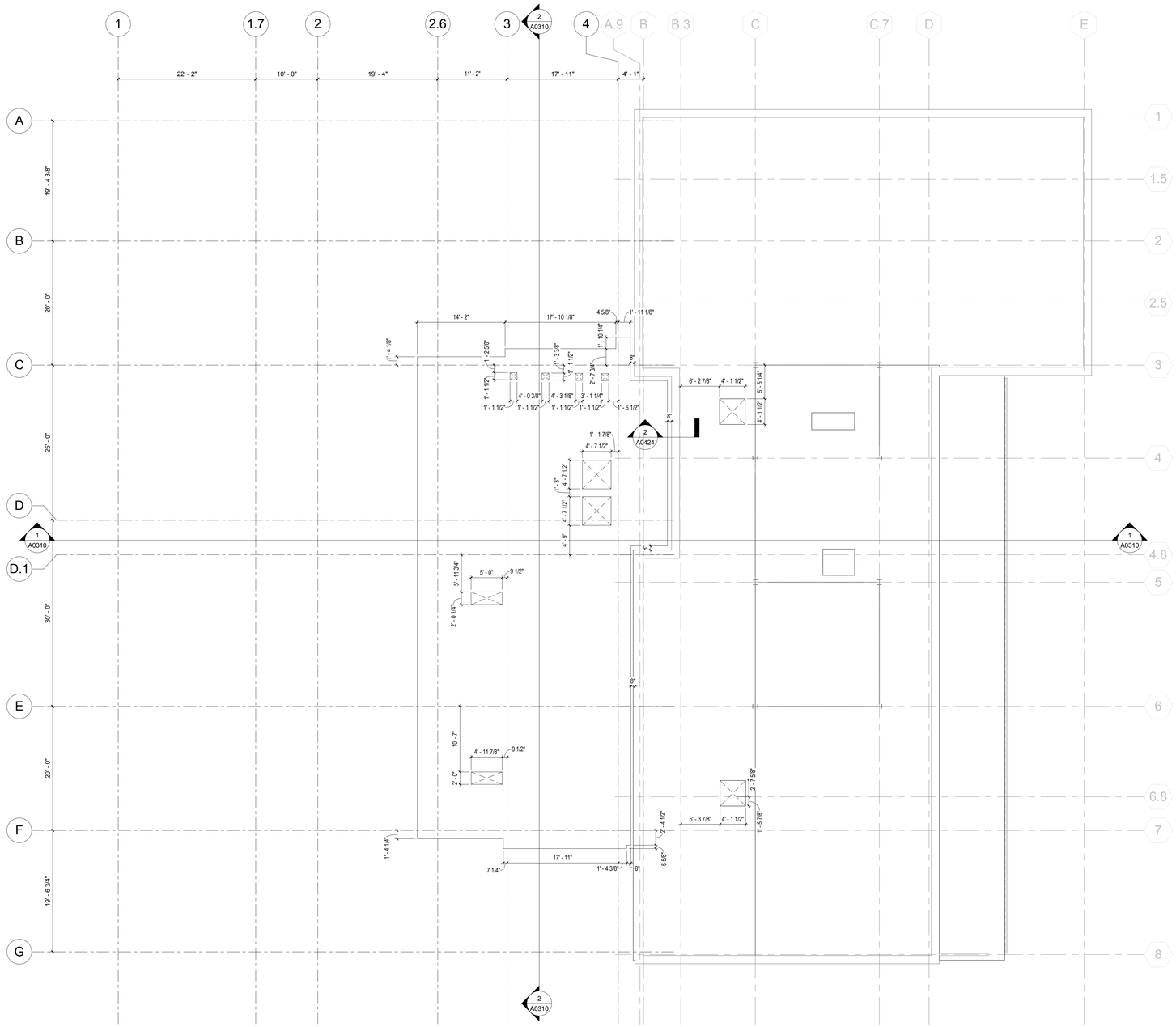
Location
Veterans Affairs Palo Alto Heath Care System
3801 Miranda Ave,Palo Alto, CA 94304

Date: JUNE 14, 2013
Checked: CW
Drawn: BK

VA Project Number: 640-385
Building Number: 105
Drawing No. A0052

VA PAHCS Veterans Affairs Palo Alto Health Care System

Department of Veterans Affairs



GENERAL NOTES

KEY NOTES

LEGEND

PROJECT NORTH
TRUE NORTH

ISSUE FOR BID

Revisions		Date
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ARCHITECT/ENGINEERS:

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Drawing Title
ROOF - ATRIUM LEVEL - SLAB EDGE PLAN

Approved: Project Director
Approver

Project Title
VA SIMULATION CENTER

Location
Veterans Affairs Palo Alto Heath Care System
3801 Miranda Ave,Palo Alto, CA 94304

Date
JUNE 14, 2013

Checked
CW

Drawn
BK

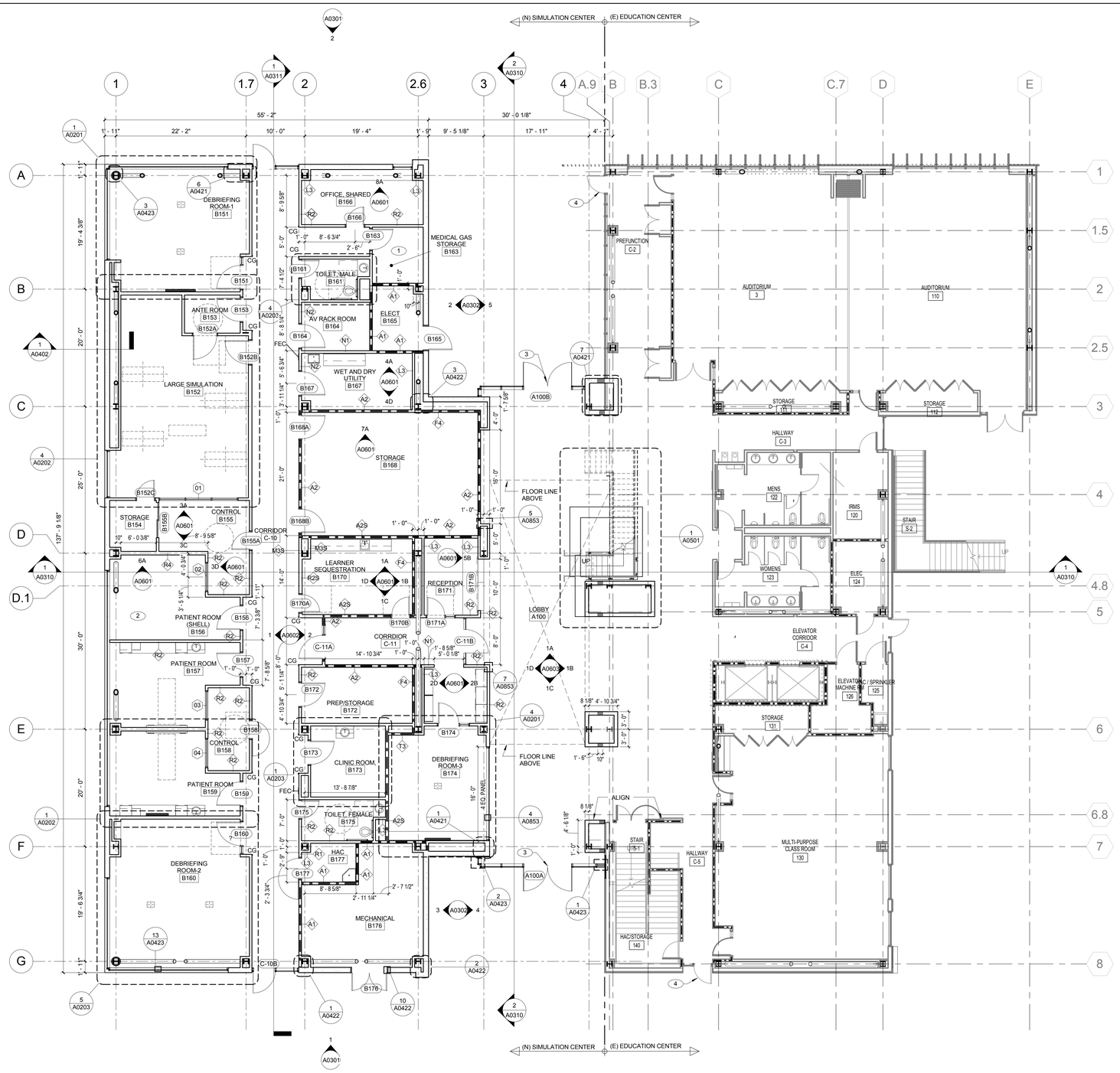
VA Project Number:
640-385

Building Number:
105

Drawing No.
A0053

VA PAHCS
Veterans Affairs Palo Alto Health Care System

Department of Veterans Affairs



1 LEVEL 01 FLOOR PLAN
1/8" = 1'-0"

GENERAL NOTES

1. ENCLOSE ALL EXPOSED DUCTS, PIPES, CONDUITS, ETC. IN FINISHED SPACE WITH CONSTRUCTION AND FINISH TO MATCH ADJACENT CONSTRUCTION UNO.

2. DO NOT DETERMINE DIMENSIONS AND SIZE OF THE GRAPHIC REPRESENTATIONS SHOWN ON THE DRAWINGS BY USING MEASURING DEVICES (DO NOT "SCALE"), RELY ON THE NUMERIC DIMENSIONS SHOWN ON THE DRAWINGS FOR MEASUREMENT.

3. DIMENSIONS ARE TAKEN FROM CENTERLINE OF STRUCTURE, FACE OF CONCRETE OR FINISHED FACE OF PARTITIONS UNO. SEE PARTITION TYPES SHEETS (A1000 SERIES) FOR PARTITION THICKNESS AND MATERIALS.

4. DIMENSIONS TO DOOR IS TO THE CENTERLINE OF DOOR, TYPICAL.

5. GC SHALL PROVIDE BACKING FOR WALL MOUNTED SHELVING (VFVI). REFER TO EQUIPMENT & FURNITURE PLAN FOR WALL MOUNTED SHELVING LOCATION.

KEY NOTES

1. SEE PLUMBING DWGS FOR MANIFOLD
2. PROVIDE ROOM FINISHES/GAS & ELECT OUTLETS. ONLY CASEWORK IS OMITTED IN PATIENT ROOM # B156
3. DOOR BEING USED AS ATRIUM SMOKE CONTROL SYSTEM MAKE-UP AIR. (TIE TO EMERGENCY POWER)
4. DOOR BEING USED AS ATRIUM SMOKE CONTROL SYSTEM MAKE-UP AIR. (TIE TO EMERGENCY POWER.) REPLACE EXISTING HARDWARE & PROVIDE NEW HARDWARE AS NEEDED.

LEGEND

ISSUE FOR BID

Revisions	Date
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CONSULTANTS:

Seals and Signatures

ARCHITECT/ENGINEERS:

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Drawing Title: LEVEL 1 FLOOR PLAN

Approved: Project Director
Approver

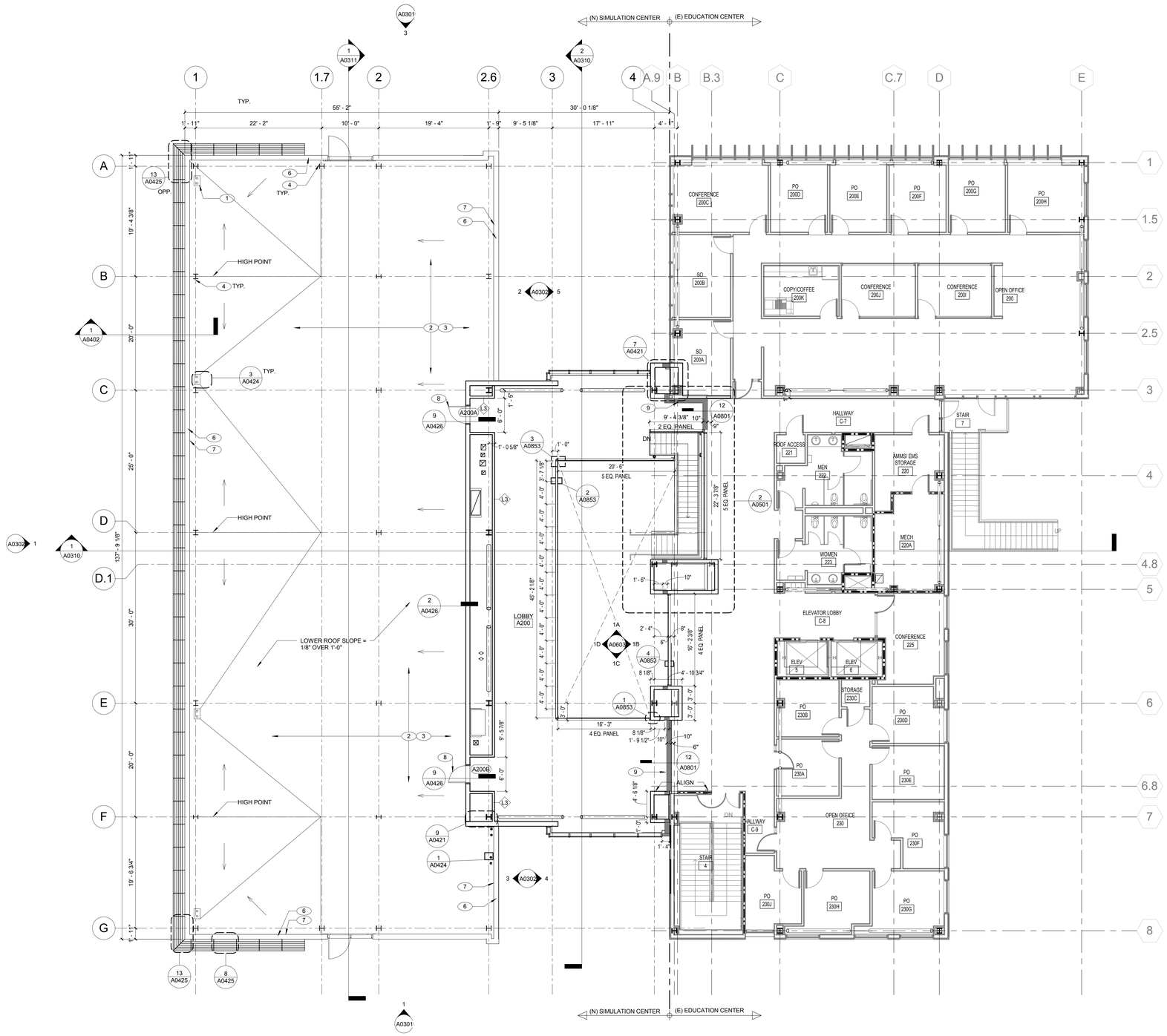
Project Title: VA SIMULATION CENTER

Location: Veterans Affairs Palo Alto Heath Care System, 3801 Miranda Ave,Palo Alto, CA 94304

Date: JUNE 14, 2013 | Checked: CW | Drawn: WK

VA Project Number: 640-385
Building Number: 105
Drawing No. A0101

VA PAHCS Veterans Affairs Palo Alto Health Care System
Department of Veterans Affairs



1 LEVEL 2 FLOOR PLAN
1/8" = 1'-0"

GENERAL NOTES

1. ENCLOSE ALL EXPOSED DUCTS, PIPES, CONDUITS, ETC. IN FINISHED SPACE WITH CONSTRUCTION AND FINISH TO MATCH ADJACENT CONSTRUCTION UNO.

2. DO NOT DETERMINE DIMENSIONS AND SIZE OF THE GRAPHIC REPRESENTATIONS SHOWN ON THE DRAWINGS BY USING MEASURING DEVICES (DO NOT "SCALE"). RELY ON THE NUMERIC DIMENSIONS SHOWN ON THE DRAWINGS FOR MEASUREMENT.

3. DIMENSIONS ARE TAKEN FROM CENTERLINE OF STRUCTURE, FACE OF CONCRETE OR FINISHED FACE OF PARTITIONS UNO. SEE PARTITION TYPES SHEETS (A1000 SERIES) FOR PARTITION THICKNESS AND MATERIALS.

4. DIMENSIONS TO DOOR IS TO THE CENTERLINE OF DOOR, TYPICAL.

5. GC SHALL PROVIDE BACKING FOR WALL MOUNTED SHELVING (VFVI). REFER TO EQUIPMENT & FURNITURE PLAN FOR WALL MOUNTED SHELVING LOCATION.

KEY NOTES

1. 221400 COMBINED ROOF DRAIN WITH OVERFLOW
2. 075419 MINIMUM 6" RIGID INSULATION TAPERED TO DRAIN
3. 075419 SINGLE PLY "COOL ROOF"
4. 051200 COLUMN SPLICE EXTENSIONS FOR PHASE 2 FUTURE EXPANSION, SEE STRUCTURAL DRAWINGS. SEE 16/A0421 FOR ROOFING DETAIL
5. 074213 METAL MECHANICAL SCREEN WITH STL. TUBE SUPPORTS
6. 076200 PAINTED MTL. COPING CAP
7. 076200 TWO PIECE COUNTER-FLASHING CONT. AT PARAPET.
8. 081113 HOLLOW METAL DOOR AND FRAME PAINTED TO MATCH ADJACENT MATERIAL
9. 079513 SEISMIC JOINT COVER
10. EPDM WALK PADS
11. CROSSOVER
12. EXHAUST FAN. SEE MECHANICAL DWGS
13. HATCH INDICATE RE-ROOFING FOR (N) EXHAUST FAN INSTALLATION.

LEGEND

PROJECT NORTH
TRUE NORTH

ISSUE FOR BID

Revisions	Date
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CONSULTANTS:

Seals and Signatures

ARCHITECT/ENGINEERS:

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Drawing Title: LEVEL 2 FLOOR PLAN AND ROOF PLAN

Approved: Project Director
Approver

Project Title: VA SIMULATION CENTER

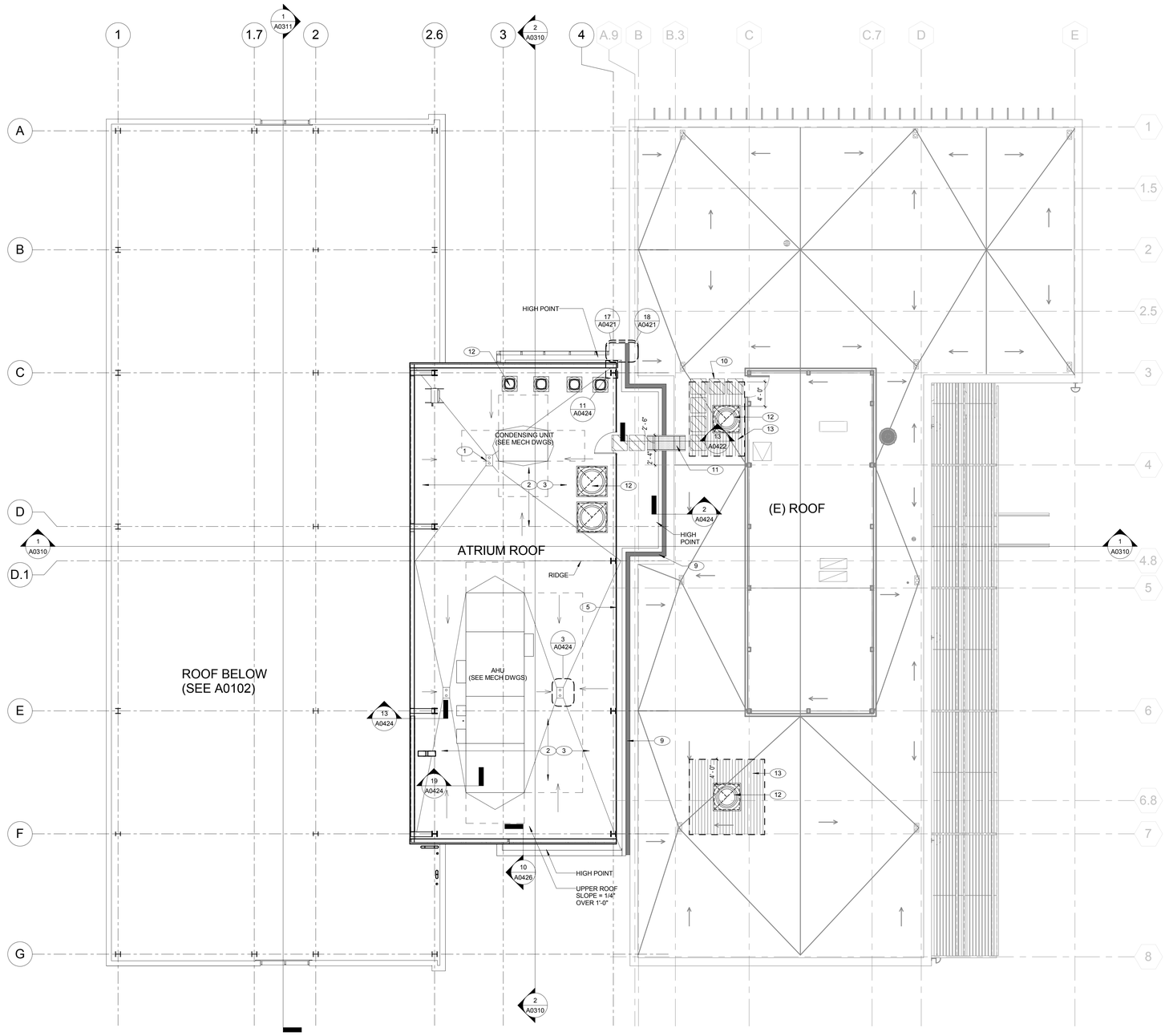
Location: Veterans Affairs Palo Alto Heath Care System, 3801 Miranda Ave,Palo Alto, CA 94304

Date: JUNE 14, 2013 | Checked: CW | Drawn: WK

VA Project Number: 640-385
Building Number: 105
Drawing No. A0102

VA PAHCS Veterans Affairs Palo Alto Health Care System

Department of Veterans Affairs



1 ROOF PLAN - ATRIUM
1/8" = 1'-0"

GENERAL NOTES

KEY NOTES

1. 221400 COMBINED ROOF DRAIN WITH OVERFLOW
2. 075419 MINIMUM 6" RIGID INSULATION TAPERED TO DRAIN
3. 075419 SINGLE PLY "COOL ROOF"
4. 051200 COLUMN SPLICE EXTENSIONS FOR PHASE 2 FUTURE EXPANSION, SEE STRUCTURAL DRAWINGS. SEE 16/A0421 FOR ROOFING DETAIL
5. 074213 METAL MECHANICAL SCREEN WITH STL. TUBE SUPPORTS
6. 076200 PAINTED MTL. COPING CAP
7. 076200 TWO PIECE COUNTER-FLASHING CONT. AT PARAPET.
8. 081113 HOLLOW METAL DOOR AND FRAME PAINTED TO MATCH ADJACENT MATERIAL
9. 079513 SEISMIC JOINT COVER
10. EPDM WALK PADS
11. CROSSOVER
12. EXHAUST FAN. SEE MECHANICAL DWGS
13. HATCH INDICATE RE-ROOFING FOR (N) EXHAUST FAN INSTALLATION.

LEGEND

PROJECT NORTH
TRUE NORTH

ISSUE FOR BID

Revisions	Date
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CONSULTANTS:

Seals and Signatures

ARCHITECT/ENGINEERS:

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St. Louis ■ San Francisco ■ Shanghai ■ Toronto
Vancouver ■ Victoria ■ Washington DC

Drawing Title: ROOF PLAN - ATRIUM

Approved: Project Director
Approver

Project Title: VA SIMULATION CENTER

Location: Veterans Affairs Palo Alto Heath Care System, 3801 Miranda Ave,Palo Alto, CA 94304

Date: JUNE 14, 2013 | Checked: CW | Drawn: BK

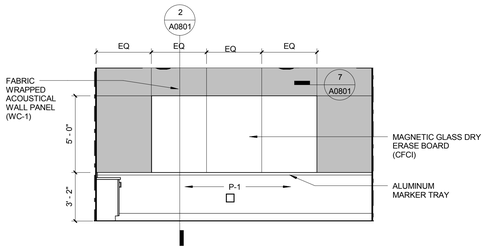
VA Project Number: 640-385

Building Number: 105

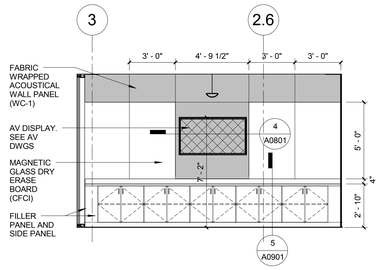
Drawing No. A0103

VA PAHCS Veterans Affairs Palo Alto Health Care System

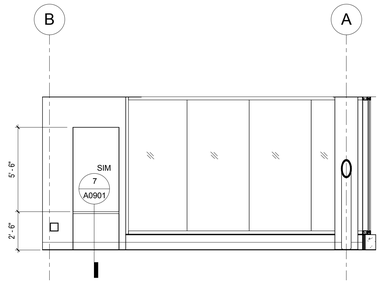
Department of Veterans Affairs



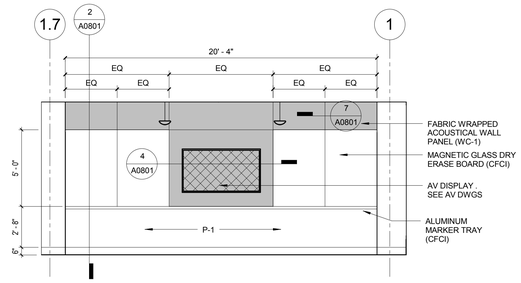
6D DEBRIEFING-3 WEST
1/4" = 1'-0"



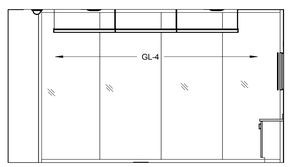
6C DEBRIEFING-3 SOUTH
1/4" = 1'-0"



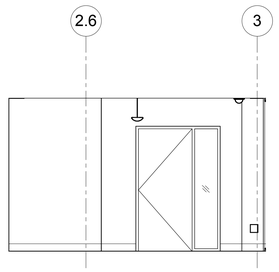
3D DEBRIEFING-1 WEST
1/4" = 1'-0"



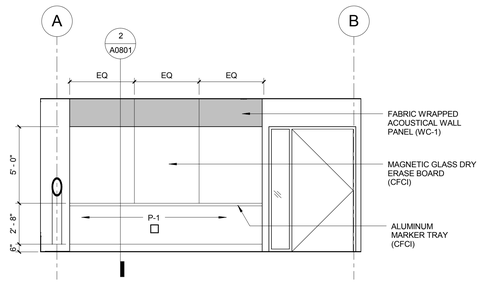
3C DEBRIEFING-1 SOUTH
1/4" = 1'-0"



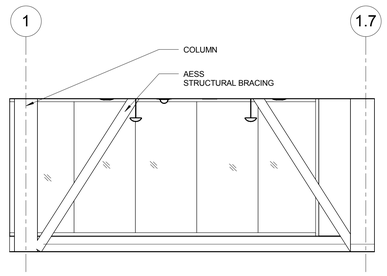
6B DEBRIEFING-3 EAST
1/4" = 1'-0"



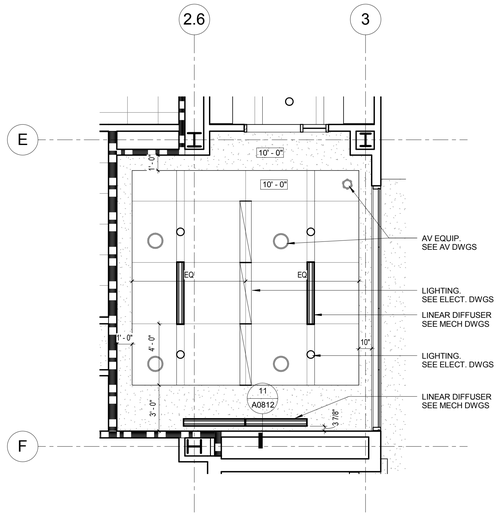
6A DEBRIEFING-3 NORTH
1/4" = 1'-0"



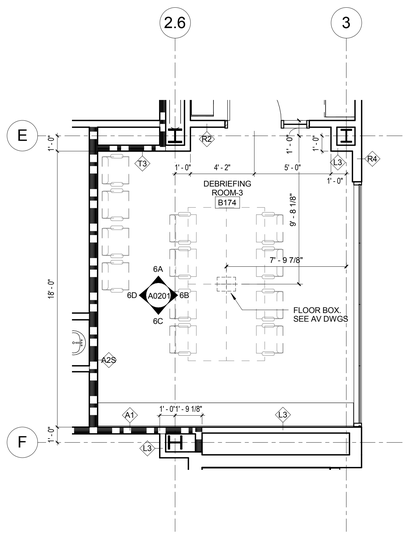
3B DEBRIEFING-1 EAST
1/4" = 1'-0"



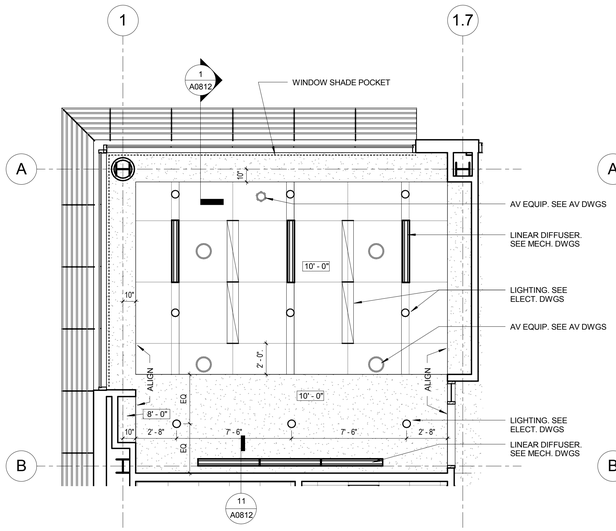
3A DEBRIEFING-1 NORTH
1/4" = 1'-0"



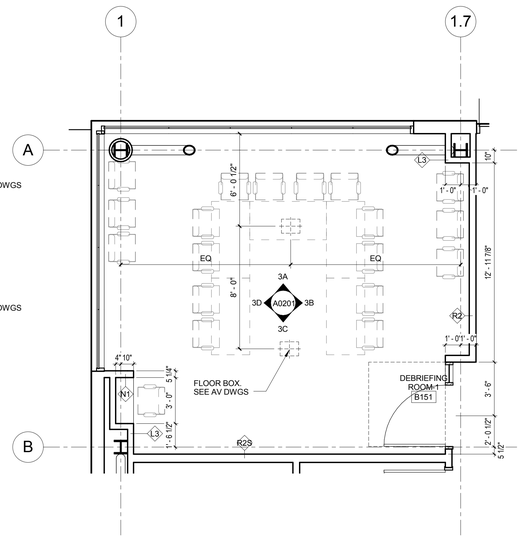
5 REFLECTED CEILING PLAN - DEBRIEFING ROOM-3
1/4" = 1'-0"



4 DEBRIEFING ROOM-3
1/4" = 1'-0"



2 REFLECTED CEILING PLAN - DEBRIEFING ROOM-1
1/4" = 1'-0"



1 DEBRIEFING ROOM-1
1/4" = 1'-0"

GENERAL NOTES

1. FURNITURE ARE SHOWN AS REFERENCE ONLY.
2. EQUIPMENTS ARE SHOWN AS REFERENCE ONLY. REFER TO EQUIPMENT LIST FOR VFCI EQUIPMENTS.
3. REFER TO FINISH PLANS FOR FINISHES INFORMATION U.O.N

KEY NOTES

LEGEND

ISSUE FOR BID

Revisions	Date
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CONSULTANTS:

Seals and Signatures

ARCHITECT/ENGINEERS:

CANNONDESIGN
201 Mission Street, Suite 2400, San Francisco, California 94105 415.243.4170
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St. Louis ■ San Francisco ■ Shanghai ■ Toronto
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Drawing Title: ENLARGED PLANS AND ELEVATIONS

Approved: Project Director
Approver

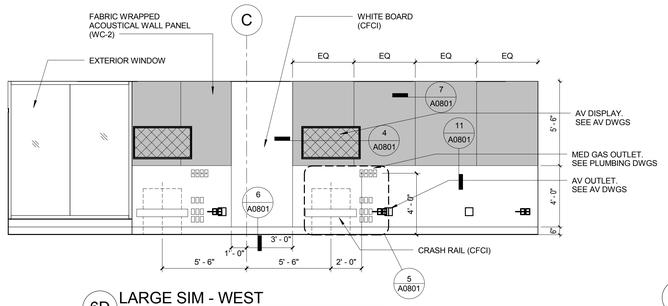
Project Title: VA SIMULATION CENTER

Location: Veterans Affairs Palo Alto Heath Care System, 3801 Miranda Ave,Palo Alto, CA 94304

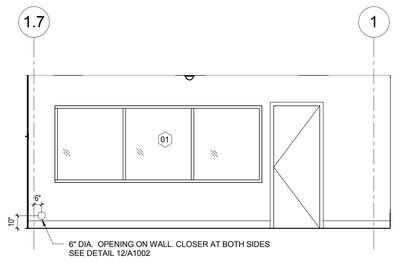
Date: JUNE 14, 2013 | Checked: CW | Drawn: WK

VA Project Number: 640-385
Building Number: 105
Drawing No. A0201

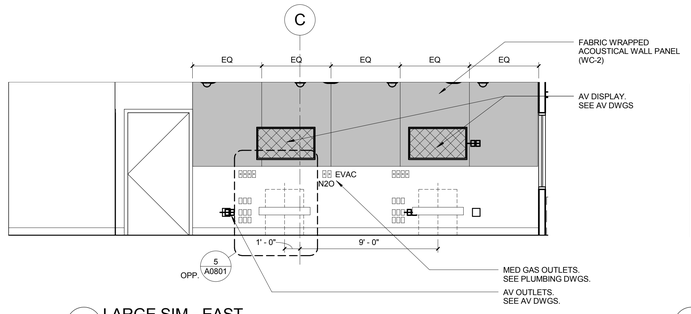
VA PAHCS Veterans Affairs Palo Alto Health Care System
Department of Veterans Affairs



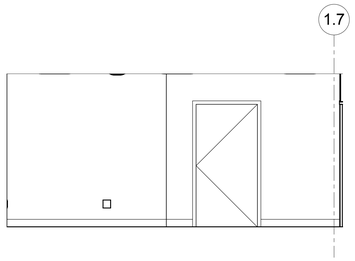
6D LARGE SIM - WEST
1/4" = 1'-0"



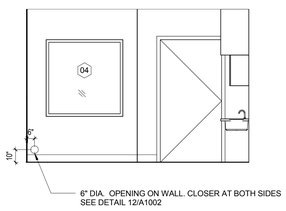
6C LARGE SIM - SOUTH
1/4" = 1'-0"



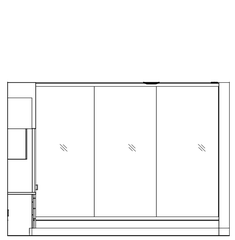
6B LARGE SIM - EAST
1/4" = 1'-0"



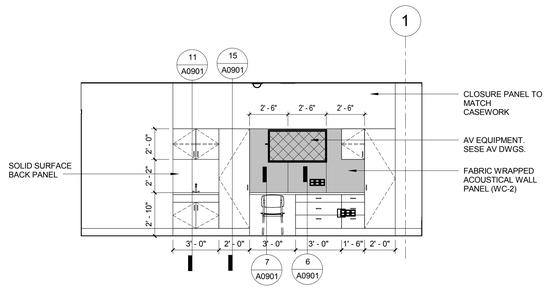
6A LARGE SIM - NORTH
1/4" = 1'-0"



3B PATIENT ROOM - EAST
1/4" = 1'-0"



3D PATIENT ROOM - WEST
1/4" = 1'-0"



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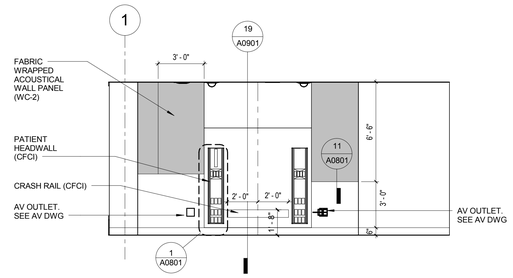
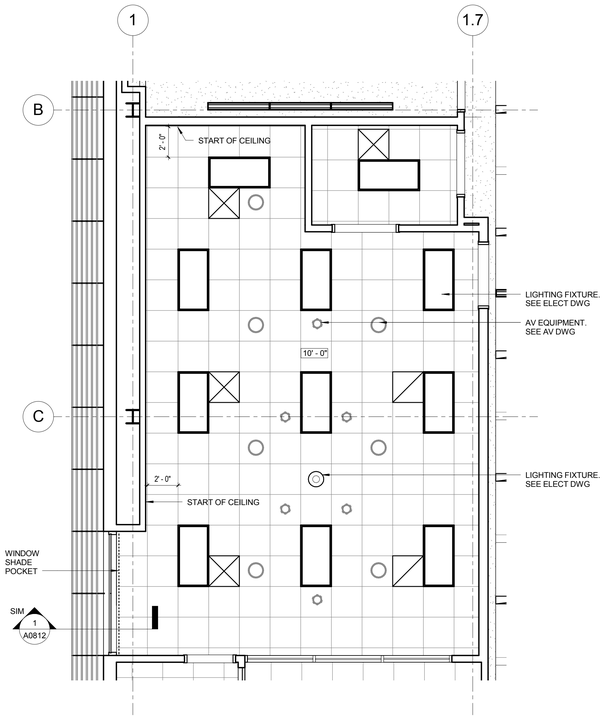
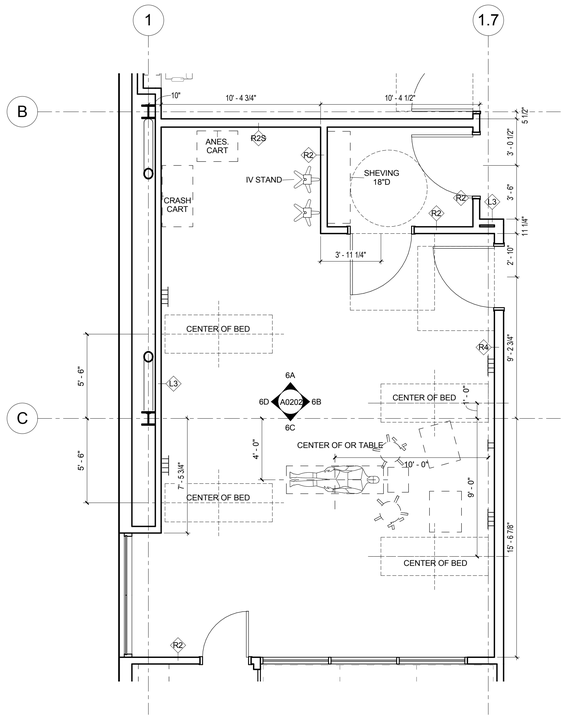
1/4" = 1'-0"



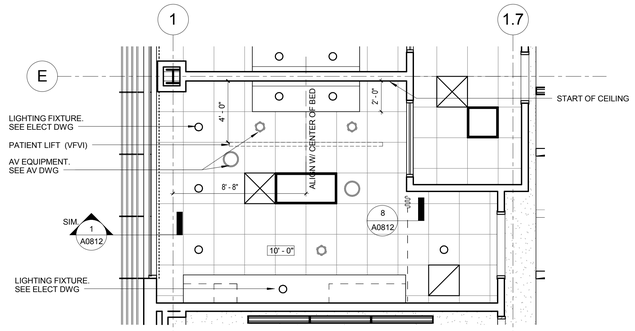
3A PATIENT ROOM - NORTH
1/4" = 1'-0"



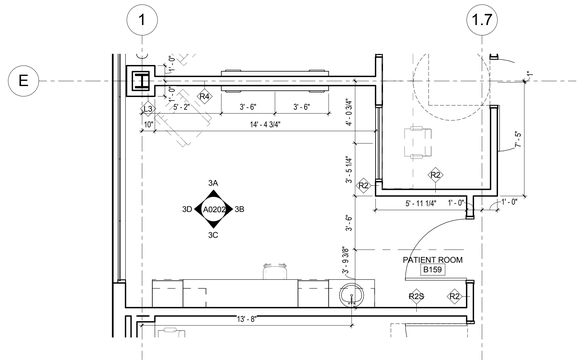
5 REFLECTED CEILNIG PLAN - SIM ROOM
1/4" = 1'-0"



4 SIMULATION ROOM
1/4" = 1'-0"



2 REFLECTED CEILING PLAN - PATIENT ROOM B159
1/4" = 1'-0"



1 PATIENT ROOM - B159
1/4" = 1'-0"

GENERAL NOTES

1. FURNITURE ARE SHOWN AS REFERENCE ONLY.
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3. REFER TO FINISH PLANS FOR FINISHES INFORMATION U.O.N

KEY NOTES

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CONSULTANTS:

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St. Louis ■ San Francisco ■ Shanghai ■ Toronto
Vancouver ■ Victoria ■ Washington DC

Drawing Title: ENLARGED PLANS AND ELEVATIONS

Approved: Project Director
Approver

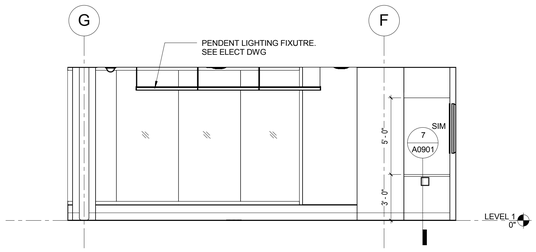
Project Title: VA SIMULATION CENTER

Location: Veterans Affairs Palo Alto Heath Care System, 3801 Miranda Ave,Palo Alto, CA 94304

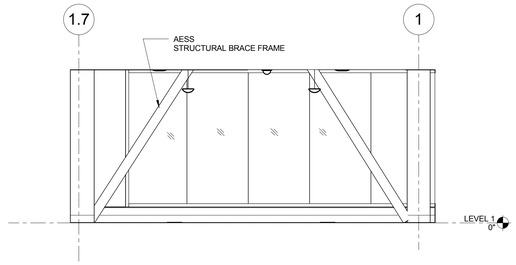
Date: JUNE 14, 2013 | Checked: CW | Drawn: WK

VA Project Number: 640-385
Building Number: 105
Drawing No. A0202

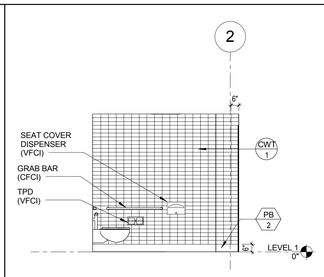
VA PAHCS Veterans Affairs Palo Alto Health Care System
Department of Veterans Affairs



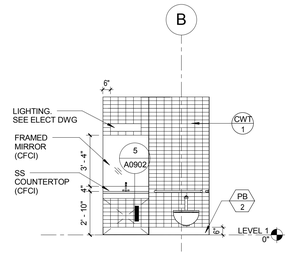
7D DEBRIEFING ROOM-2 WEST
1/4" = 1'-0"



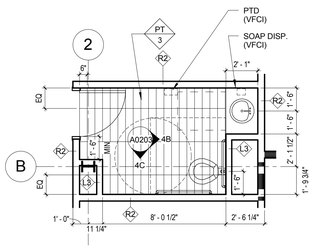
7C DEBRIEFING ROOM-2 SOUTH
1/4" = 1'-0"



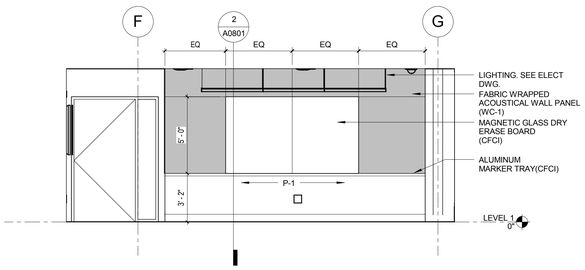
4C TOILET - SOUTH
1/4" = 1'-0"



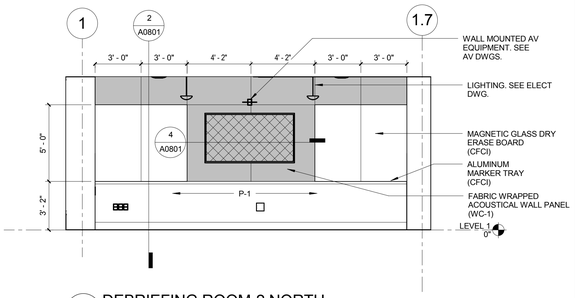
4B TOILET - EAST
1/4" = 1'-0"



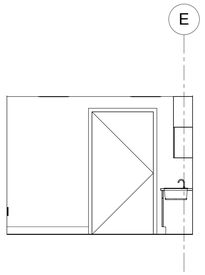
4 TOILET
1/4" = 1'-0"



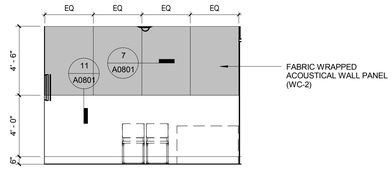
7B DEBRIEFING ROOM-2 -EAST
1/4" = 1'-0"



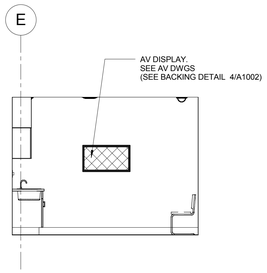
7A DEBRIEFING ROOM-2 NORTH
1/4" = 1'-0"



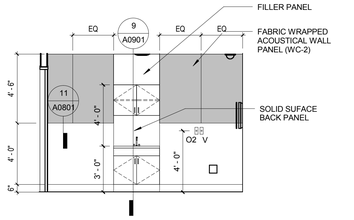
3D EXAM - WEST
1/4" = 1'-0"



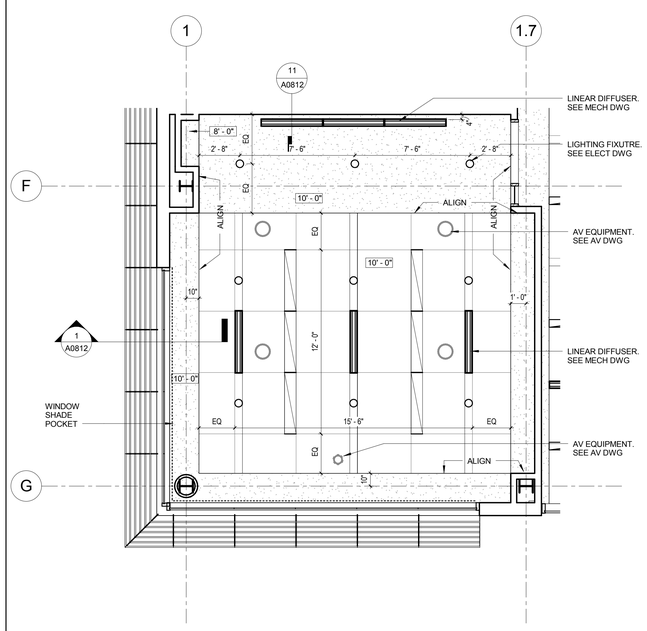
3C EXAM - SOUTH
1/4" = 1'-0"



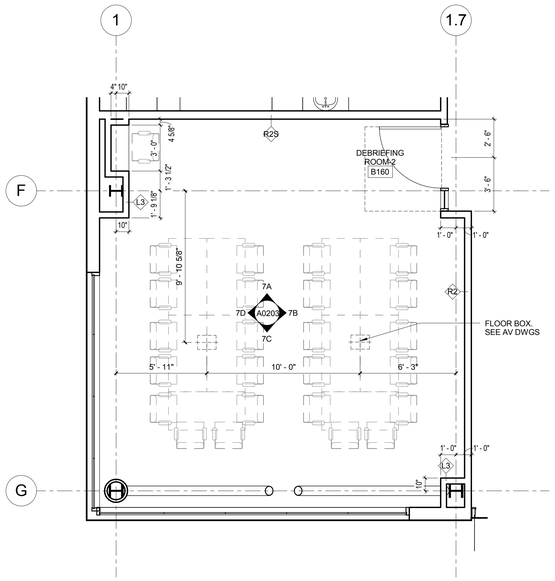
3B EXAM - EAST
1/4" = 1'-0"



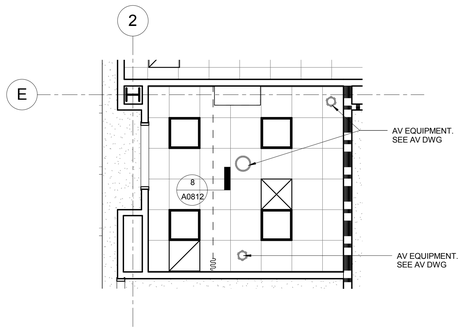
3A EXAM - NORTH
1/4" = 1'-0"



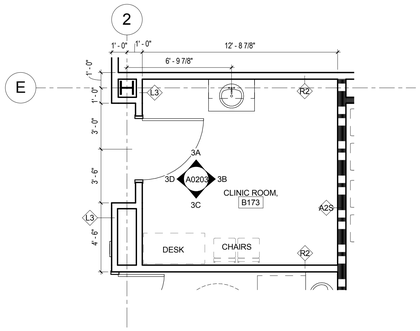
6 REFLECTED CEILNG PLAN - DEBRIEFING ROOM-2
1/4" = 1'-0"



5 DEBRIEFING ROOM-2
1/4" = 1'-0"



2 REFLECTED CEILNG PLAN - CLINIC ROOM
1/4" = 1'-0"



1 CLINIC ROOM
1/4" = 1'-0"

GENERAL NOTES

1. FURNITURE ARE SHOWN AS REFERENCE ONLY.
2. EQUIPMENTS ARE SHOWN AS REFERENCE ONLY. REFER TO EQUIPMENT LIST FOR VFCI EQUIPMENTS.
3. REFER TO FINISH PLANS FOR FINISHES INFORMATION U.O.N

KEY NOTES

LEGEND

PROJECT NORTH
TRUE NORTH

ISSUE FOR BID

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CONSULTANTS:

Seals and Signatures

ARCHITECT/ENGINEERS:

CANNONDESIGN

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St. Louis ■ San Francisco ■ Shanghai ■ Toronto
Vancouver ■ Victoria ■ Washington DC

Drawing Title
ENLARGED PLANS AND ELEVATIONS

Project Title
VA SIMULATION CENTER

VA Project Number: 640-385

Building Number: 105

Approved: Project Director
Approver

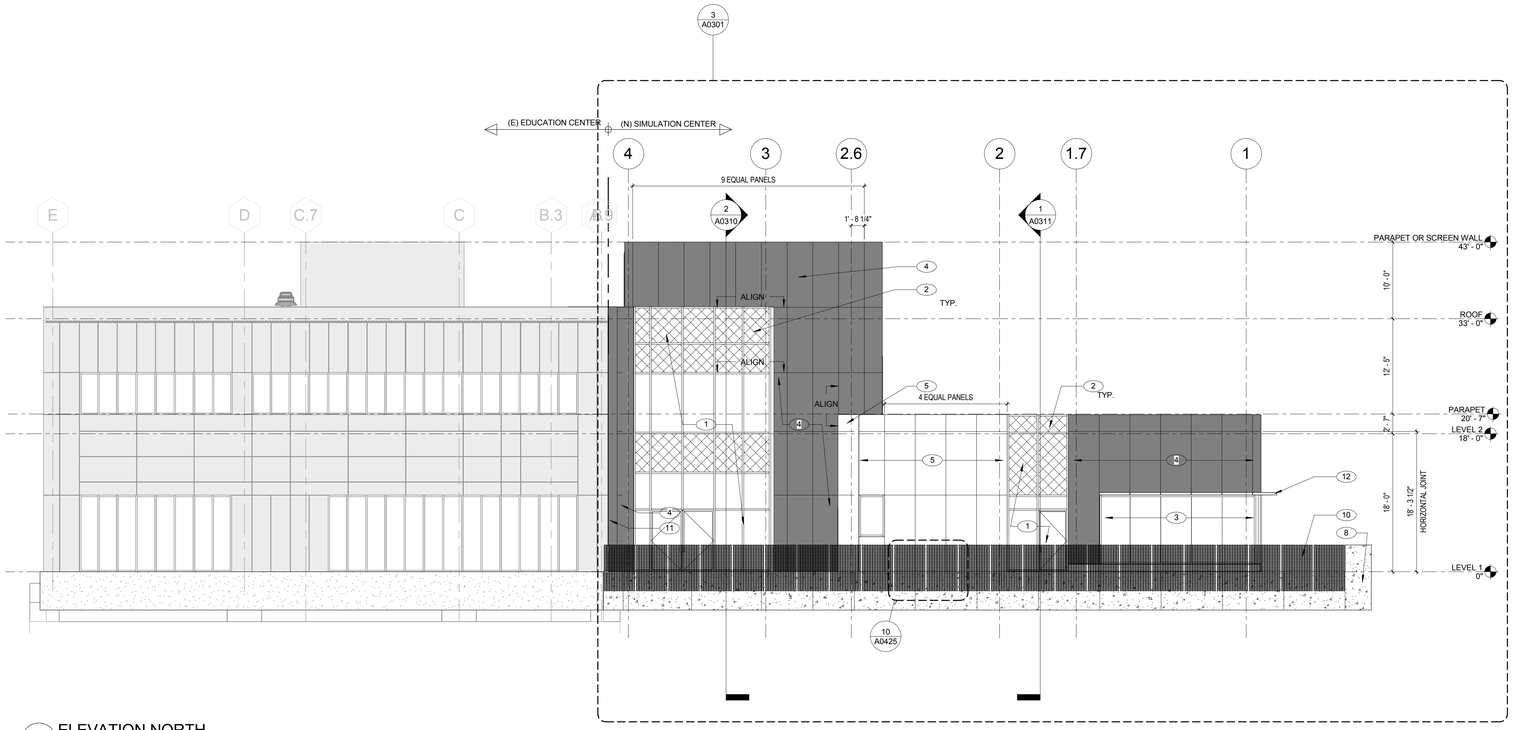
Location: Veterans Affairs Palo Alto Heath Care System, 3801 Miranda Ave,Palo Alto, CA 94304

Drawing No. A0203

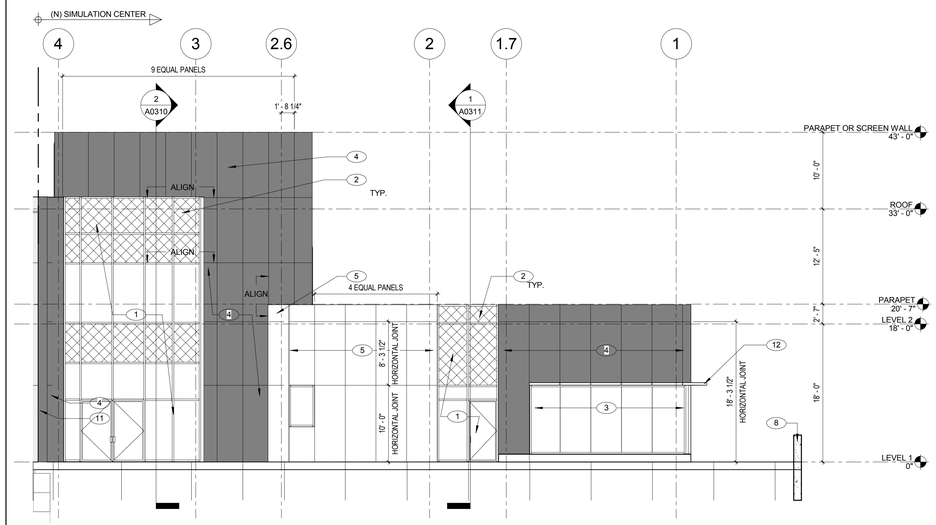
Date: JUNE 14, 2013 | Checked: CW | Drawn: WK

VA PAHCS Veterans Affairs Palo Alto Health Care System

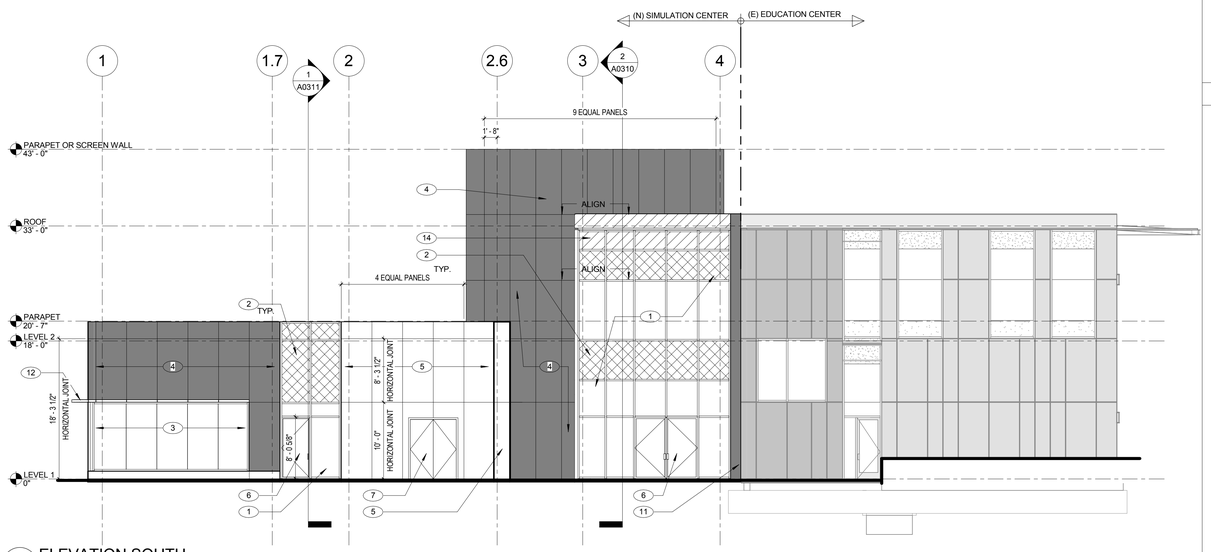
Department of Veterans Affairs



2 ELEVATION NORTH
1/8" = 1'-0"



3 ELEVATION NORTH AT BUILDING
1/8" = 1'-0"



1 ELEVATION SOUTH
1/8" = 1'-0"

GENERAL NOTES

KEY NOTES

1. 084423 CURTAINWALL SYSTEM
2. 088000 SHADOW BOX
3. 084113 ALUMINUM STOREFRONT ASSEMBLY
4. 074456 CEMENTIOUS PANEL: PANEL TYPE 1
5. 074245 ALUMINUM COMPOSITE PANEL
6. 084113 GLASS DOOR
7. 081113 HOLLOW METAL DOOR
8. 033330 SMOOTH FINISHED ARCHITECTURAL CONCRETE
9. 074213 MECHANICAL SCREEN
10. 055000 STAINLESS STEEL BAR GRATING GUARDRAIL
11. 079513 SEISMIC JOINT COVER
12. 107113 EXTERIOR SUN CONTROL DEVICE
13. 092423 PORTLAND CEMENT PLASTER

LEGEND

PROJECT NORTH
TRUE NORTH

ISSUE FOR BID

Revisions	Date
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CONSULTANTS:

Seals and Signatures

ARCHITECT/ENGINEERS:

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Drawing Title: EXTERIOR ELEVATIONS

Approved: Project Director
Approver

Project Title: VA SIMULATION CENTER

Location: Veterans Affairs Palo Alto Heath Care System
3801 Miranda Ave,Palo Alto, CA 94304

Date: JUNE 14, 2013 | Checked: CW | Drawn: BK

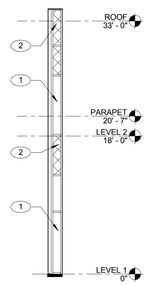
VA Project Number: 640-385

Building Number: 105

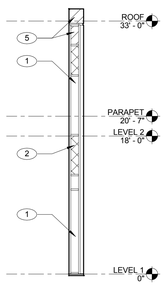
Drawing No. A0301

VA PAHCS Veterans Affairs Palo Alto Health Care System

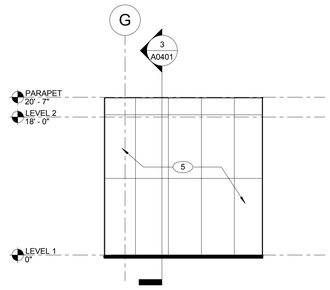
Department of Veterans Affairs



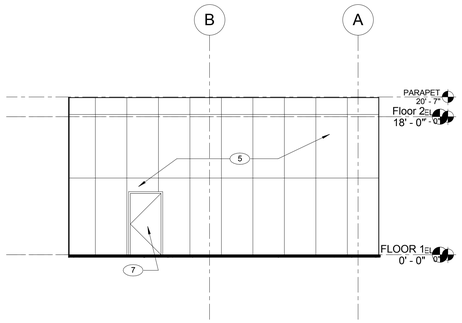
5 ELEVATION WEST AT COURTYARD
1/8" = 1'-0"



4 ELEVATION WEST AT SOUTH ENTRY
1/8" = 1'-0"



3 ELEVATION EAST AT SOUTH ENTRY
1/8" = 1'-0"



2 ELEVATION EAST AT COURTYARD
1/8" = 1'-0"

1 ELEVATION WEST
1/8" = 1'-0"

GENERAL NOTES

KEY NOTES

1. 084423 CURTAINWALL SYSTEM
2. 088000 SHADOW BOX
3. 084113 ALUMINUM STOREFRONT ASSEMBLY
4. 074456 CEMENTIOUS PANEL: PANEL TYPE 1
5. 074245 ALUMINUM COMPOSITE PANEL
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LEGEND

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TRUE NORTH

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CONSULTANTS:

Seals and Signatures

ARCHITECT/ENGINEERS:

CANNONDESIGN

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St. Louis ■ San Francisco ■ Shanghai ■ Toronto
Vancouver ■ Victoria ■ Washington DC

Drawing Title: EXTERIOR ELEVATIONS

Approved: Project Director
Approver

Project Title: VA SIMULATION CENTER

Location: Veterans Affairs Palo Alto Heath Care System
3801 Miranda Ave,Palo Alto, CA 94304

Date: JUNE 14, 2013 | Checked: CW | Drawn: BK

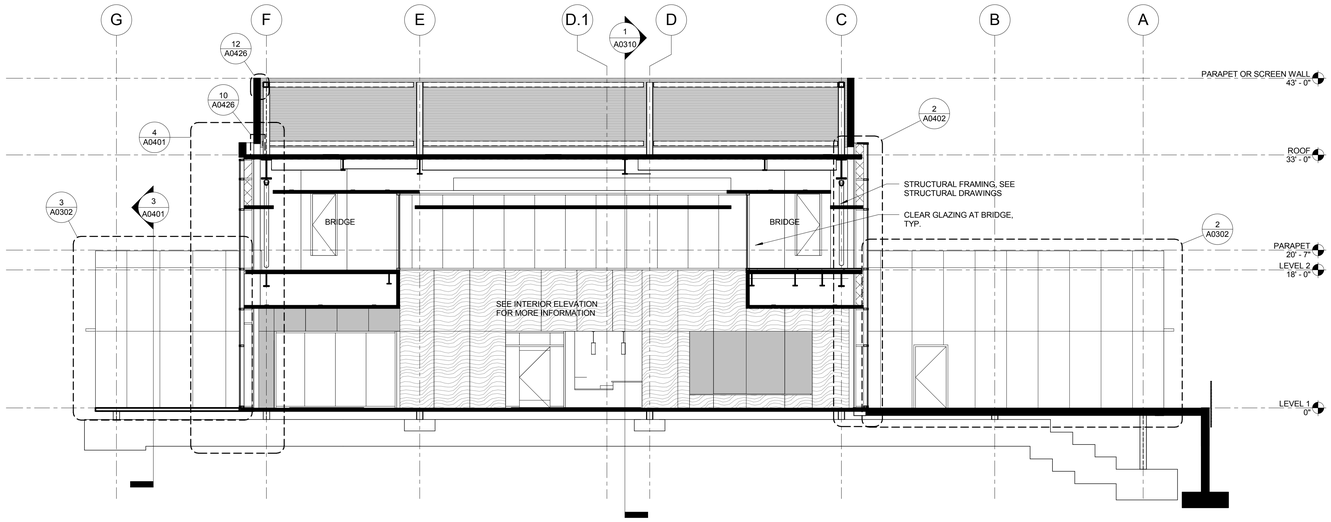
VA Project Number: 640-385

Building Number: 105

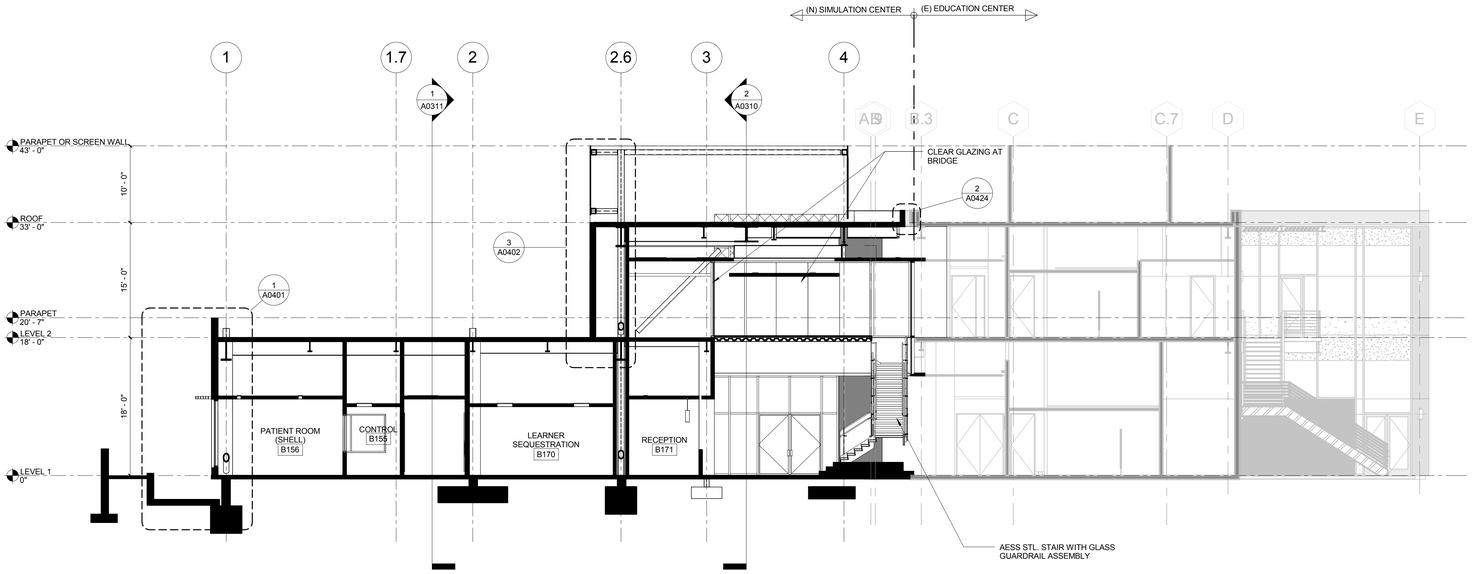
Drawing No. A0302

VA PAHCS Veterans Affairs Palo Alto Health Care System

Department of Veterans Affairs



2 SECTION THRU LOBBY LOOKING WEST
1/8" = 1'-0"



1 SECTION THRU LOBBY LOOKING NORTH
1/8" = 1'-0"

GENERAL NOTES

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Vancouver ■ Victoria ■ Washington DC

Drawing Title
BUILDING SECTIONS

Approved: Project Director
Approver

Project Title
VA SIMULATION CENTER

Location
Veterans Affairs Palo Alto Heath Care System
3801 Miranda Ave,Palo Alto, CA 94304

Date
JUNE 14, 2013

Checked
CW

Drawn
BK

VA Project Number:
640-385

Building Number:
105

Drawing No.
A0310

VA PAHCS
Veterans Affairs Palo Alto Health Care System

Department of Veterans Affairs

three inches = one foot

one and one-half inches = one foot

one inch = one foot

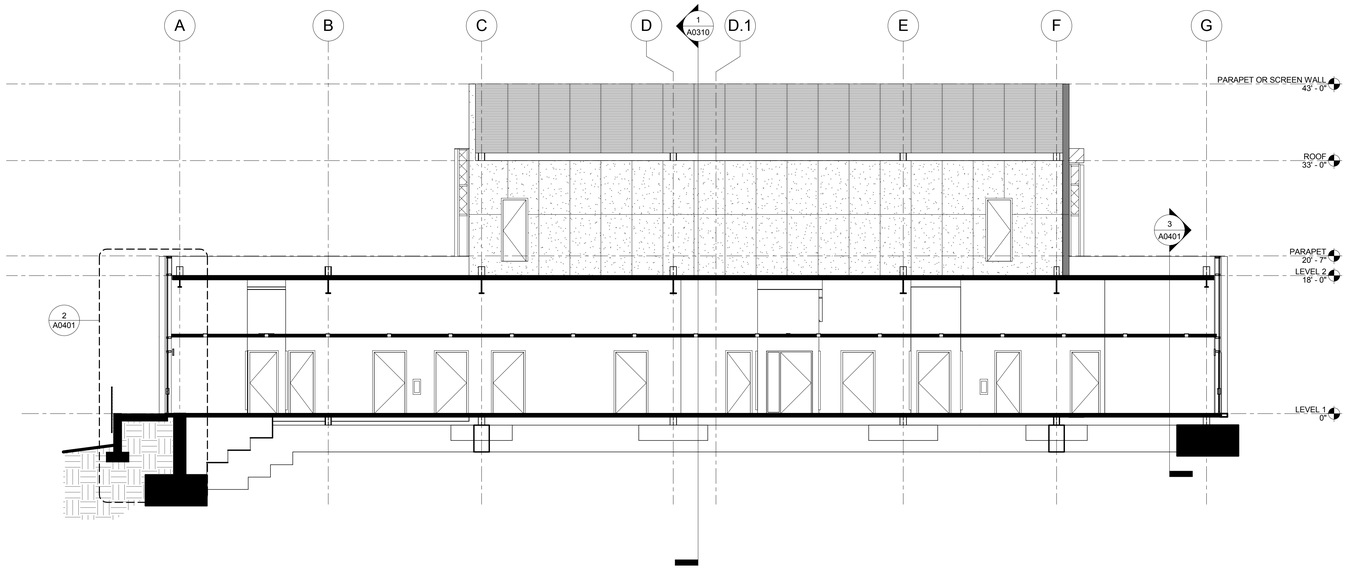
three-quarters inch = one foot

one-half inch = one foot

three-eighths inch = one foot

one-quarter inch = one foot

one-eighth inch = one foot



1 SECTION THRU CORRIDOR
1/8" = 1'-0"

GENERAL NOTES

KEY NOTES

LEGEND

PROJECT NORTH
TRUE NORTH

ISSUE FOR BID

Revisions	Date
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CONSULTANTS:

Seals and Signatures

ARCHITECT/ENGINEERS:

CANNONDESIGN

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Drawing Title
BUILDING SECTIONS

Approved: Project Director
Approver

Project Title
VA SIMULATION CENTER

Location
Veterans Affairs Palo Alto Heath Care System
3801 Miranda Ave,Palo Alto, CA 94304

Date
JUNE 14, 2013

Checked
CW

Drawn
BK

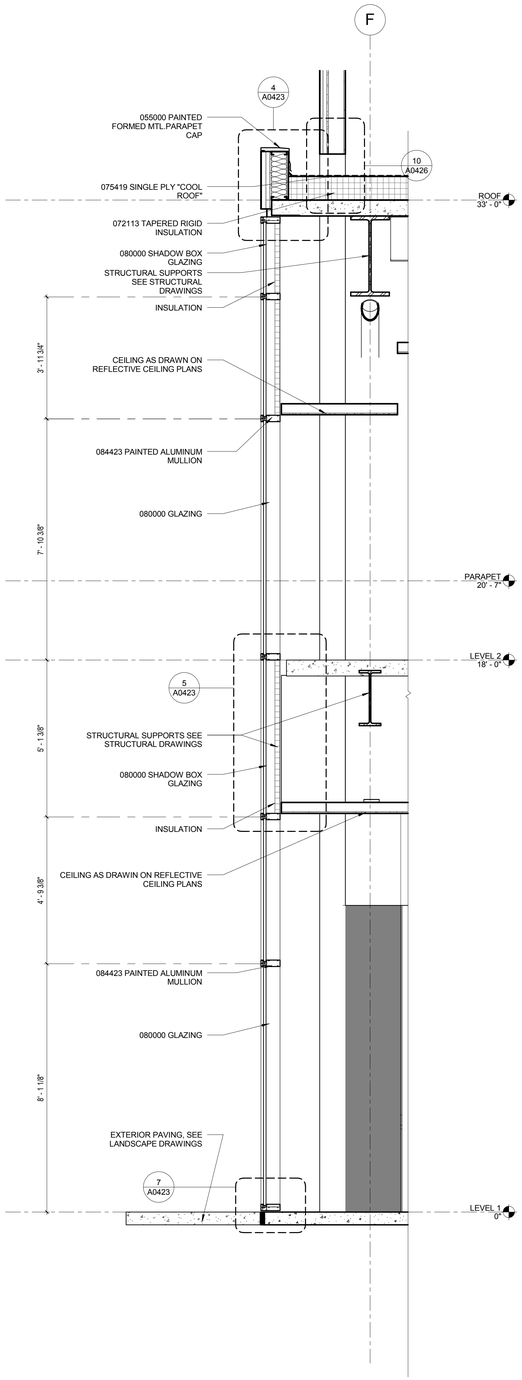
VA Project Number:
640-385

Building Number:
105

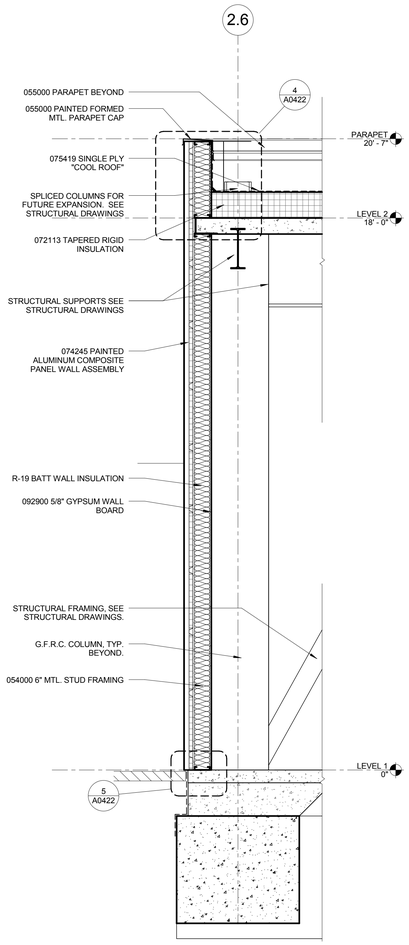
Drawing No.
A0311

VA PAHCS
Veterans Affairs Palo Alto Health Care System

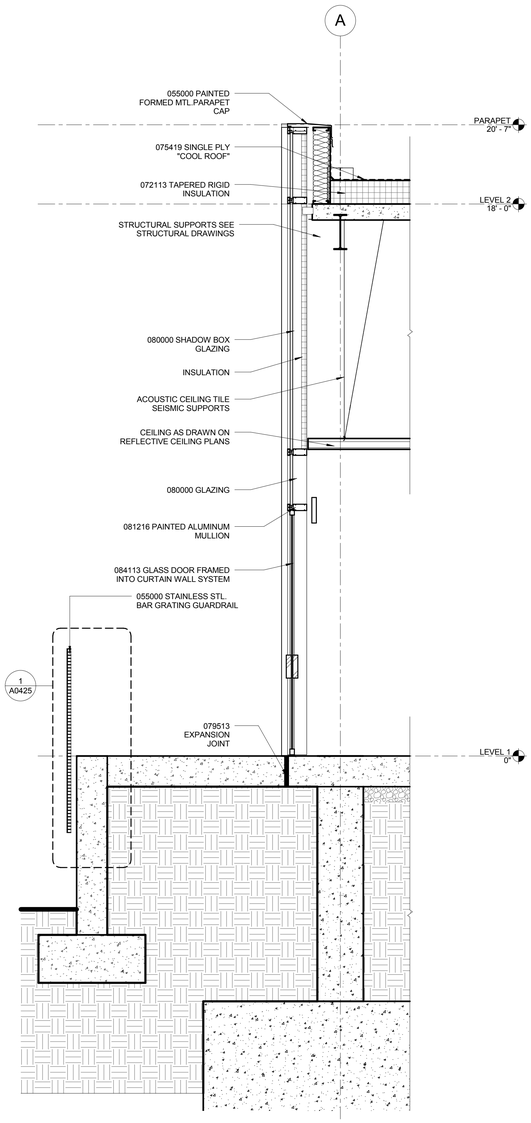
Department of Veterans Affairs



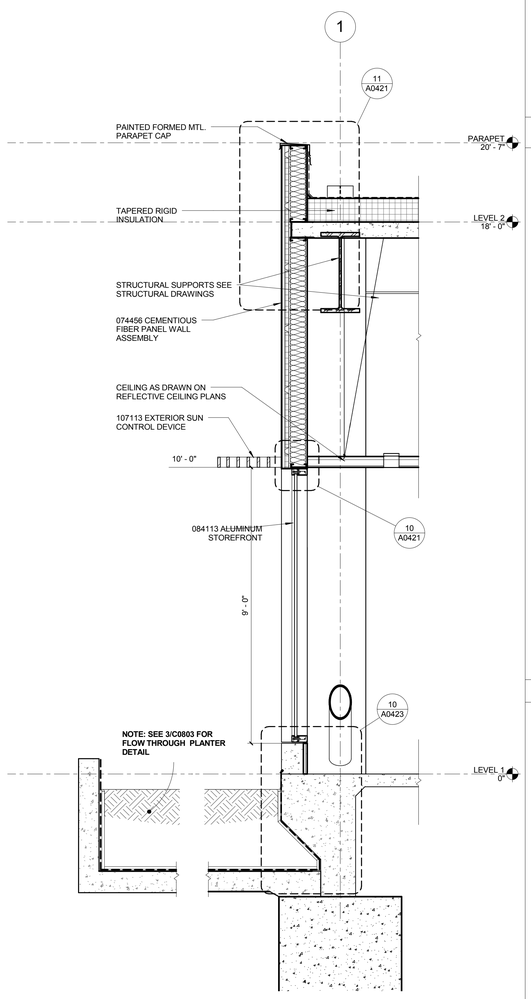
4 SECTION AT LOBBY CURTAIN WALL
1/2" = 1'-0"



3 SECTION AT TYPICAL METAL PANEL
1/2" = 1'-0"



2 SECTION THRU CURTAIN WALL AT CORRIDOR C-10
1/2" = 1'-0"



1 SECTION AT TYPICAL CEMENTIOUS PANEL EXTERIOR WALL
1/2" = 1'-0"

GENERAL NOTES

KEY NOTES

LEGEND

PROJECT NORTH
TRUE NORTH

ISSUE FOR BID

Revisions	Date
9	
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7	
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ARCHITECT/ENGINEERS:

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Drawing Title
WALL SECTIONS

Approved: Project Director
Approver

Project Title
VA SIMULATION CENTER

Location Veterans Affairs Palo Alto Heath Care System
3801 Miranda Ave,Palo Alto, CA 94304

Date JUNE 14, 2013 | Checked CW | Drawn BK

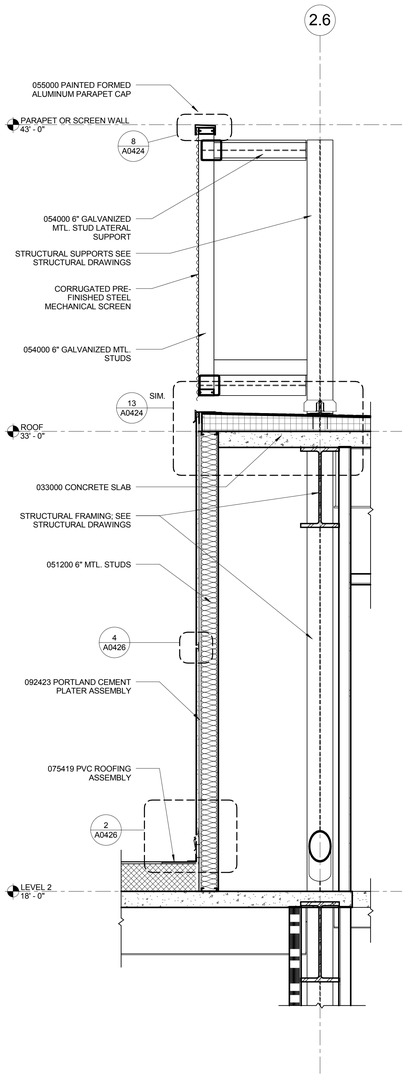
VA Project Number: 640-385

Building Number: 105

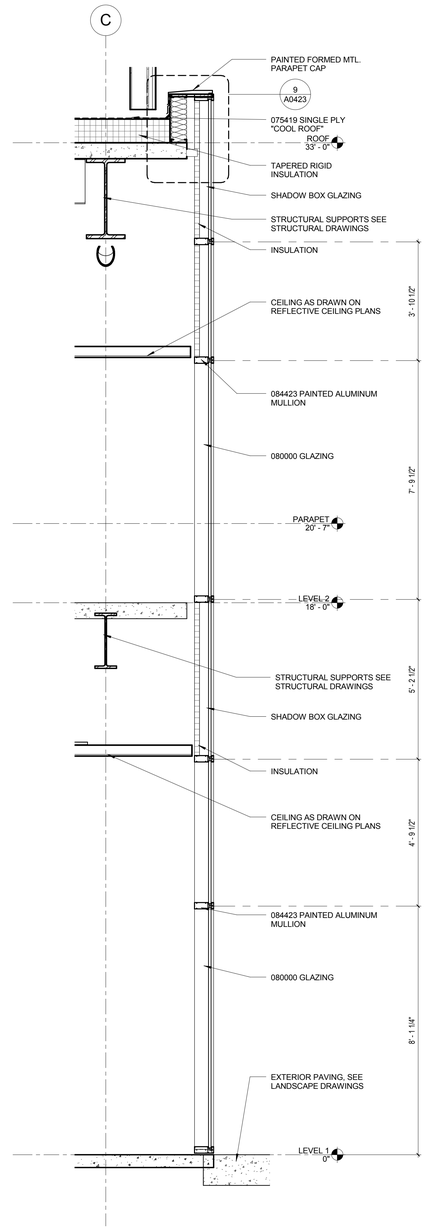
Drawing No. A0401

VA PAHCS Veterans Affairs Palo Alto Health Care System

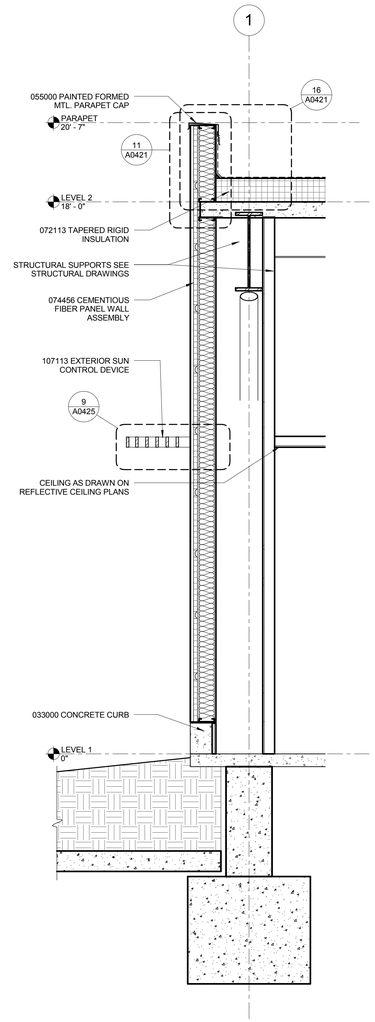
Department of Veterans Affairs



3 SECTION AT WEST WALL
1/2" = 1'-0"



2 SECTION THRU LOBBY NORTH ENTRY
1/2" = 1'-0"



1 SECTION THRU CEMENTIOUS FIBER PANEL
1/2" = 1'-0"

GENERAL NOTES

KEY NOTES

LEGEND

PROJECT NORTH
TRUE NORTH

ISSUE FOR BID

Revisions	Date
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Drawing Title
WALL SECTIONS

Approved: Project Director
Approver

Project Title
VA SIMULATION CENTER

Location
Veterans Affairs Palo Alto Heath Care System
3801 Miranda Ave,Palo Alto, CA 94304

Date
JUNE 14, 2013

Checked
CW

Drawn
BK

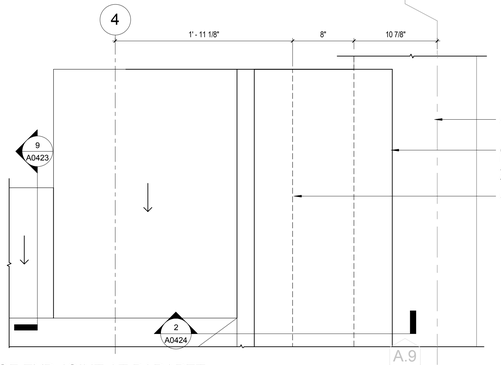
VA Project Number:
640-385

Building Number:
105

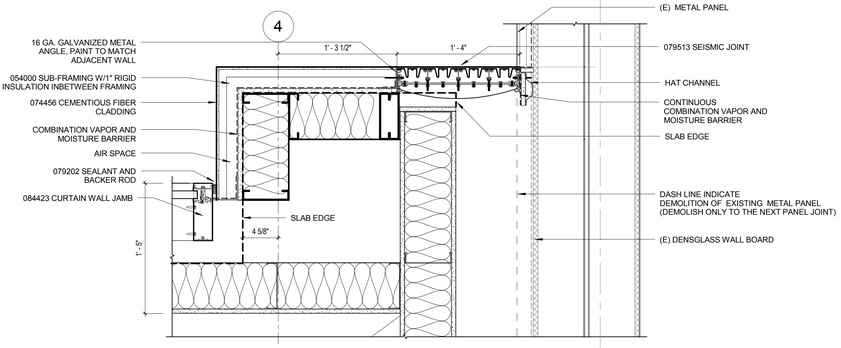
Drawing No.
A0402

VA PAHCS
Veterans Affairs Palo Alto Health Care System

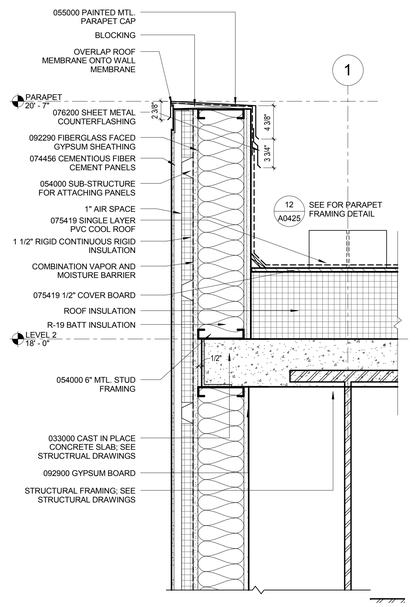
Department of Veterans Affairs



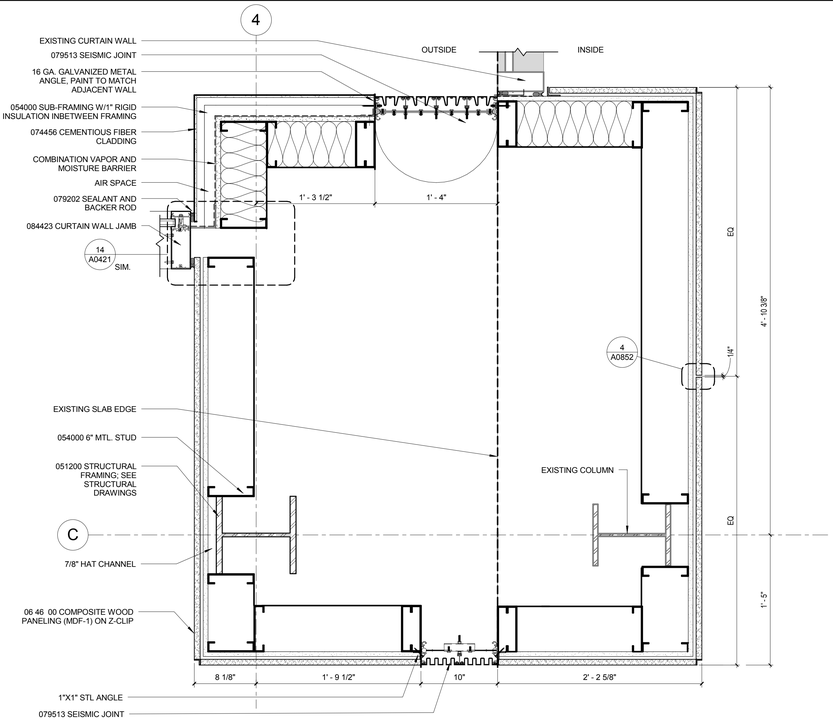
18 ROOF EXP JOINT AT PARAPET
1 1/2" = 1'-0"



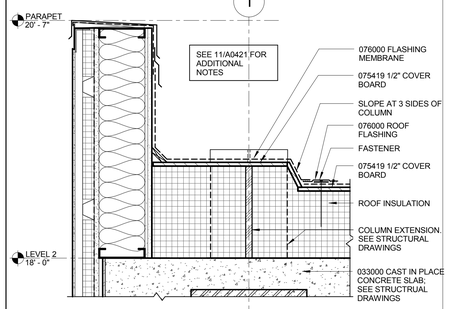
17 ROOF EXP JOINT AT PARAPET (BELOW CAP)
1 1/2" = 1'-0"



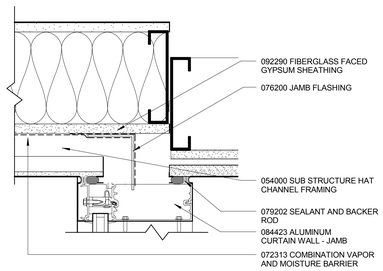
11 SECTION AT CEMENTIOUS FIBER PANEL PARAPET
1 1/2" = 1'-0"



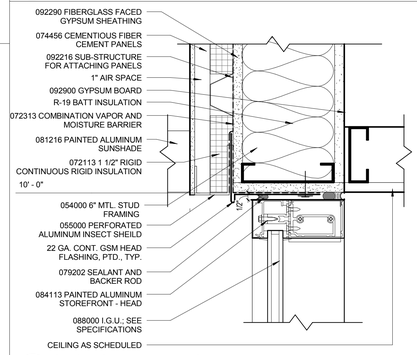
7 PLAN AT NORTH ENTRY
1 1/2" = 1'-0"



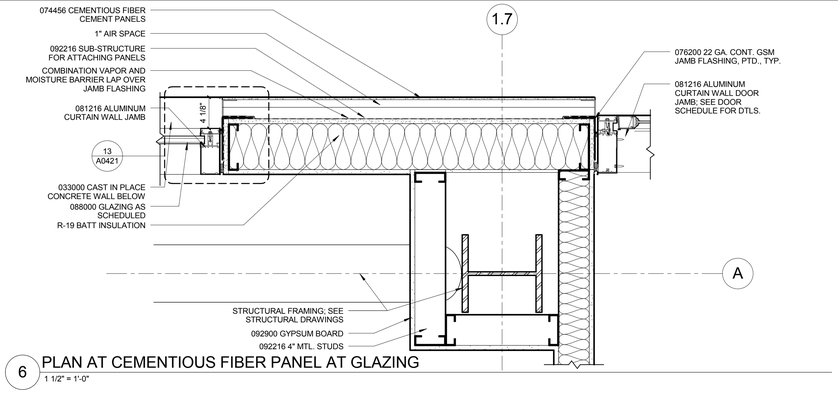
16 SECTION AT COLUMN EXTENSION
1 1/2" = 1'-0"



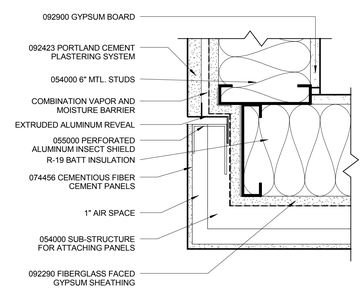
14 PLAN AT CURTAIN WALL/CEM. FIB. JAMB
3" = 1'-0"



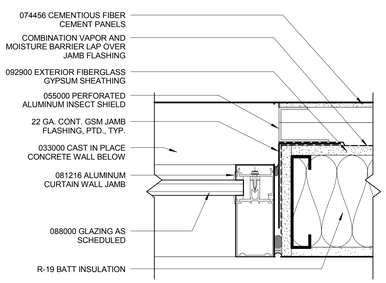
10 SECTION AT WINDOW HEAD
3" = 1'-0"



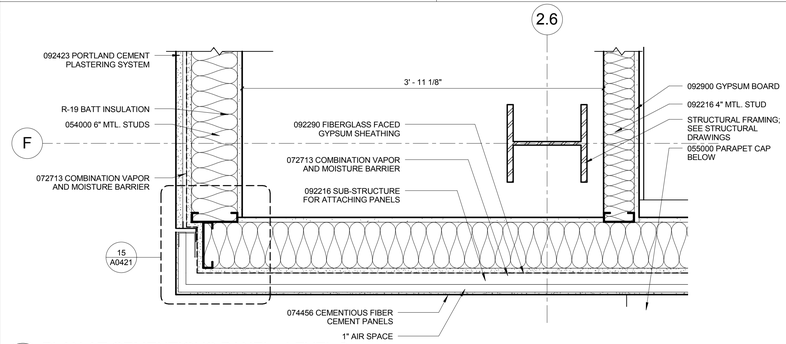
6 PLAN AT CEMENTIOUS FIBER PANEL AT GLAZING
1 1/2" = 1'-0"



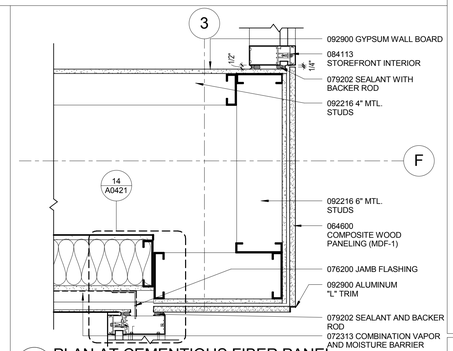
15 PLAN AT LEVEL 2 - EXTERIOR CORNER
3" = 1'-0"



13 PLAN AT CEMENTITIOUS FIBER JAMB, TYP.
3" = 1'-0"



9 PLAN AT CEMENTIOUS PANEL - LEVEL 2
1 1/2" = 1'-0"



1 PLAN AT CEMENTIOUS FIBER PANEL
1 1/2" = 1'-0"

GENERAL NOTES

KEY NOTES

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PROJECT NORTH
TRUE NORTH

ISSUE FOR BID

Revisions	Date
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CONSULTANTS:

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ARCHITECT/ENGINEERS:

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Drawing Title
EXTERIOR DETAILS - CEMENT FIBER PANELS

Project Title
VA SIMULATION CENTER

VA Project Number: 640-385

Building Number: 105

Approved: Project Director
Approver

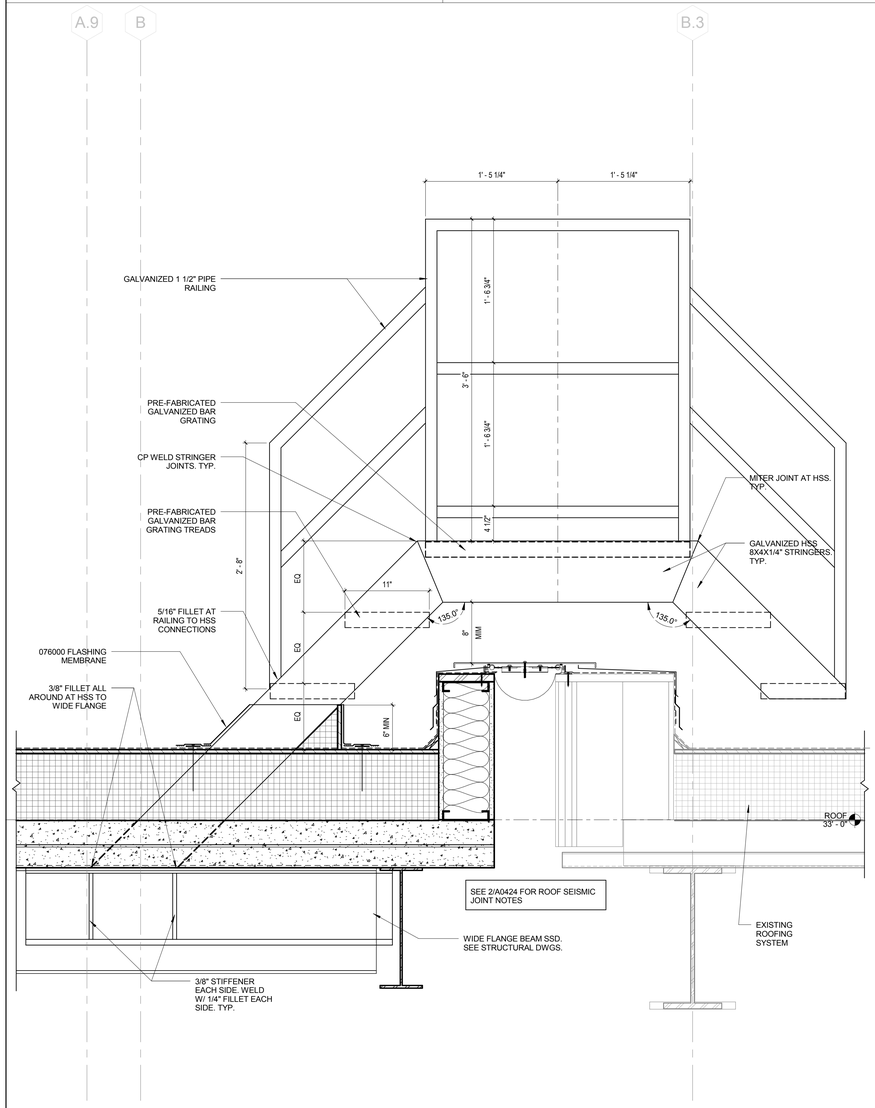
Location: Veterans Affairs Palo Alto Heath Care System, 3801 Miranda Ave,Palo Alto, CA 94304

Date: JUNE 14, 2013 | Checked: CW | Drawn: BK

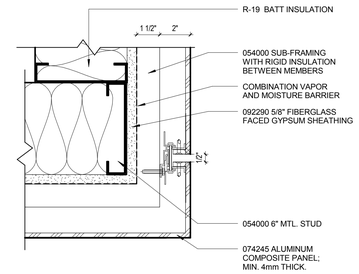
Drawing No. A0421

VA PAHCS Veterans Affairs Palo Alto Health Care System

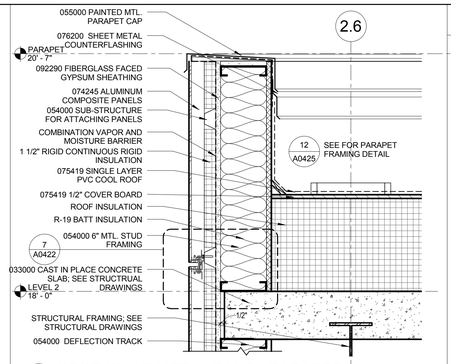
Department of Veterans Affairs



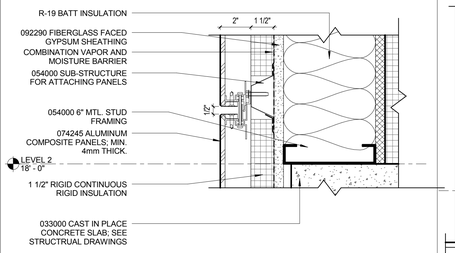
13 SECTION AT ROOF PARAPET - CROSSOVER
1 1/2" = 1'-0"



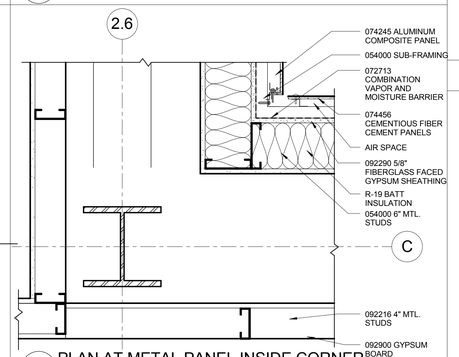
8 PLAN AT METAL PANEL - VERT. JOINT
3" = 1'-0"



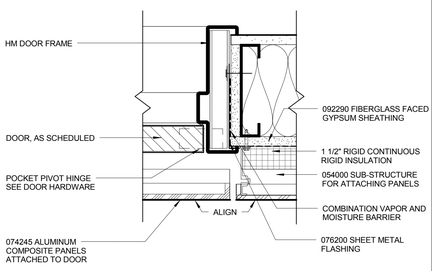
4 SECTION AT METAL PANEL PARAPET
1 1/2" = 1'-0"



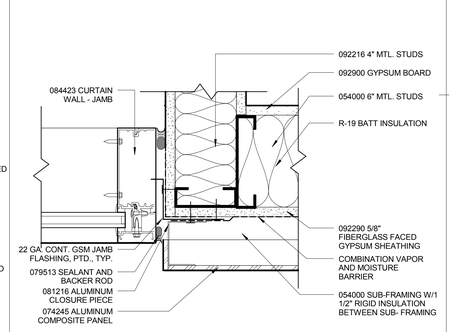
7 SECTION AT METAL PANEL - HORZ. JOINT
3" = 1'-0"



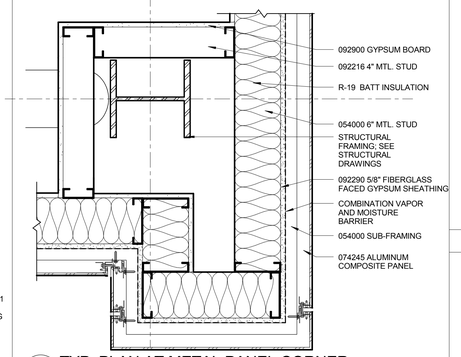
3 PLAN AT METAL PANEL INSIDE CORNER
1 1/2" = 1'-0"



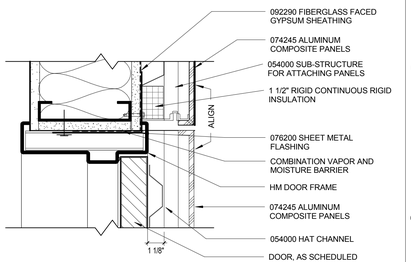
10 BLIND DOOR - JAMB
3" = 1'-0"



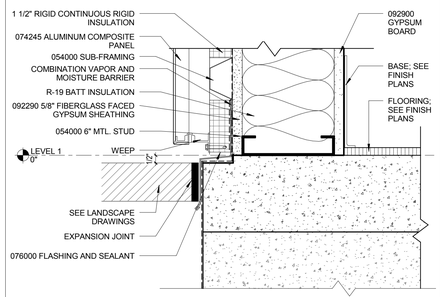
6 PLAN AT METAL PANEL CORNER
3" = 1'-0"



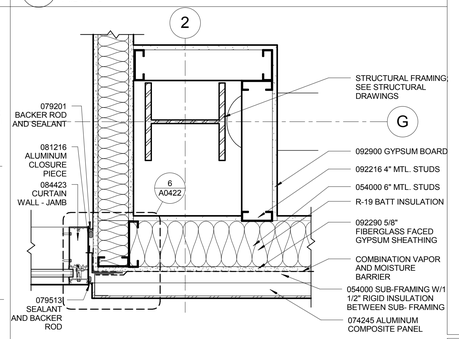
2 TYP. PLAN AT METAL PANEL CORNER
1 1/2" = 1'-0"



9 BLIND DOOR - HEAD
3" = 1'-0"



5 SECTION AT METAL PANEL SILL
3" = 1'-0"



1 PLAN AT METAL PANEL
1 1/2" = 1'-0"

GENERAL NOTES

KEY NOTES

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PROJECT NORTH
TRUE NORTH

ISSUE FOR BID

Revisions	Date
9	
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CONSULTANTS:

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ARCHITECT/ENGINEERS:

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Drawing Title: EXTERIOR DETAILS - METAL PANEL

Approved: Project Director
Approver

Project Title: VA SIMULATION CENTER

Location: Veterans Affairs Palo Alto Heath Care System, 3801 Miranda Ave,Palo Alto, CA 94304

Date: JUNE 14, 2013 | Checked: CW | Drawn: BK

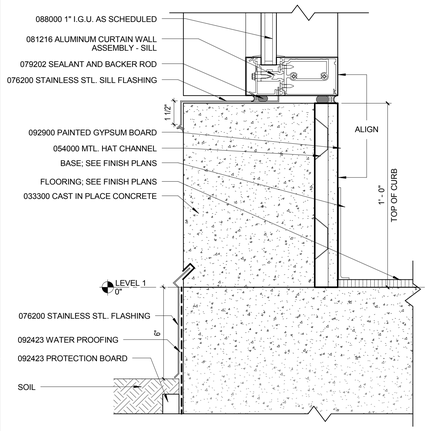
VA Project Number: 640-385

Building Number: 105

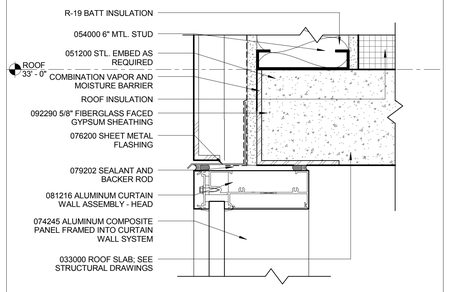
Drawing No. A0422

VA PAHCS Veterans Affairs Palo Alto Health Care System

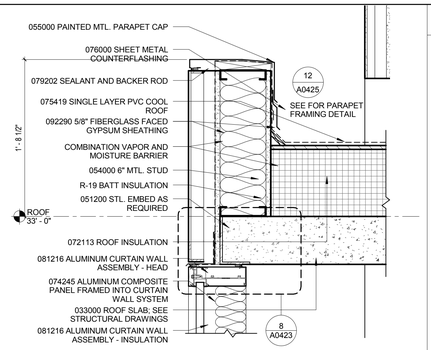
Department of Veterans Affairs



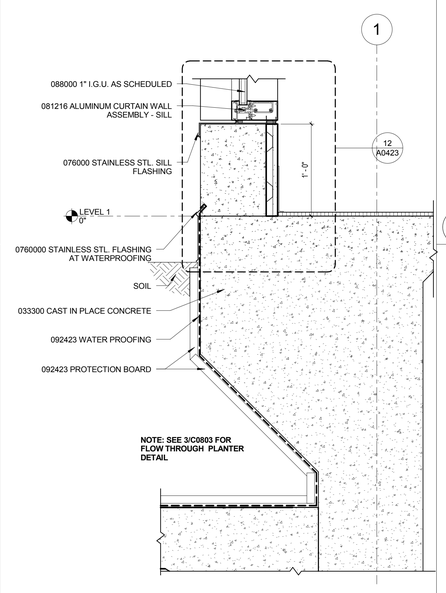
12 SECTION AT WINDOW SILL
3" = 1'-0"



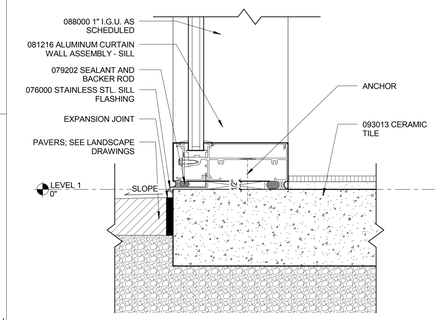
8 SECTION AT NORTH CURTAIN WALL HEAD
3" = 1'-0"



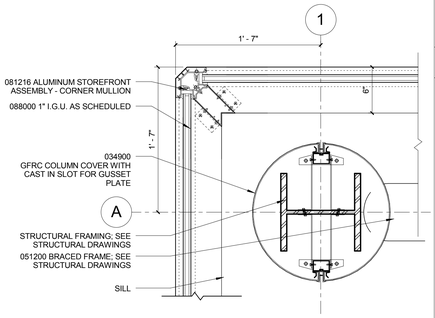
4 SECTION AT CURTAIN WALL PARAPET
1 1/2" = 1'-0"



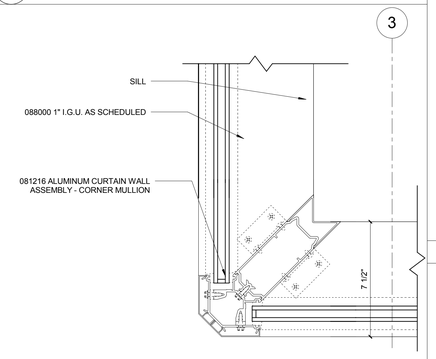
10 SECTION AT SILL AND FLOW THRU PLANTER
1 1/2" = 1'-0"



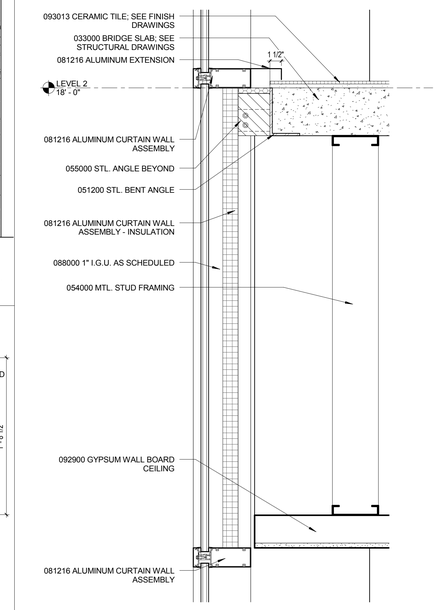
7 SECTION AT CURTAIN WALL SILL
3" = 1'-0"



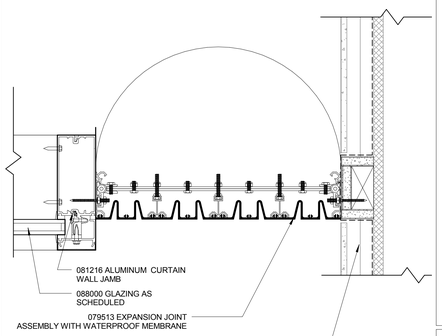
3 PLAN AT STOREFRONT CORNER
1 1/2" = 1'-0"



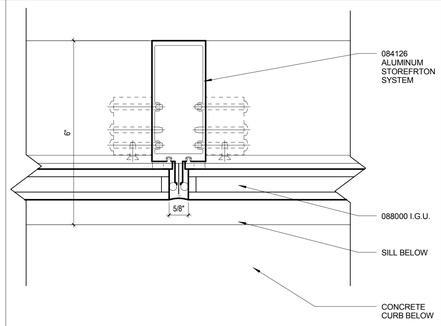
2 TYPICAL PLAN AT CURTAIN WALL CORNER
3" = 1'-0"



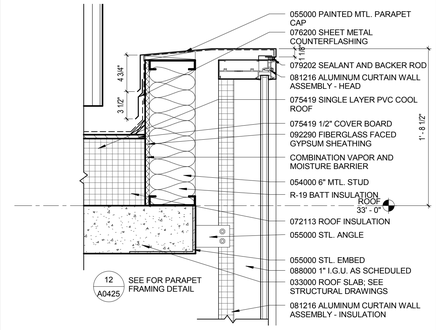
5 SECTION AT LEVEL 2 CURTAIN WALL
1 1/2" = 1'-0"



1 PLAN AT SOUTH ENTRY SEISMIC JOINT
3" = 1'-0"



13 PLAN AT VERTICAL MULLION AT STOREFRONT
6" = 1'-0"



9 SECTION AT SOUTH ENTRY CURTAIN WALL
1 1/2" = 1'-0"

GENERAL NOTES

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Drawing Title
EXTERIOR DETAILS - CURTAIN WALL AND GLAZING

Approved: Project Director
Approver

Project Title
VA SIMULATION CENTER

Location
Veterans Affairs Palo Alto Heath Care System
3801 Miranda Ave,Palo Alto, CA 94304

Date
JUNE 14, 2013

Checked
CW

Drawn
BK

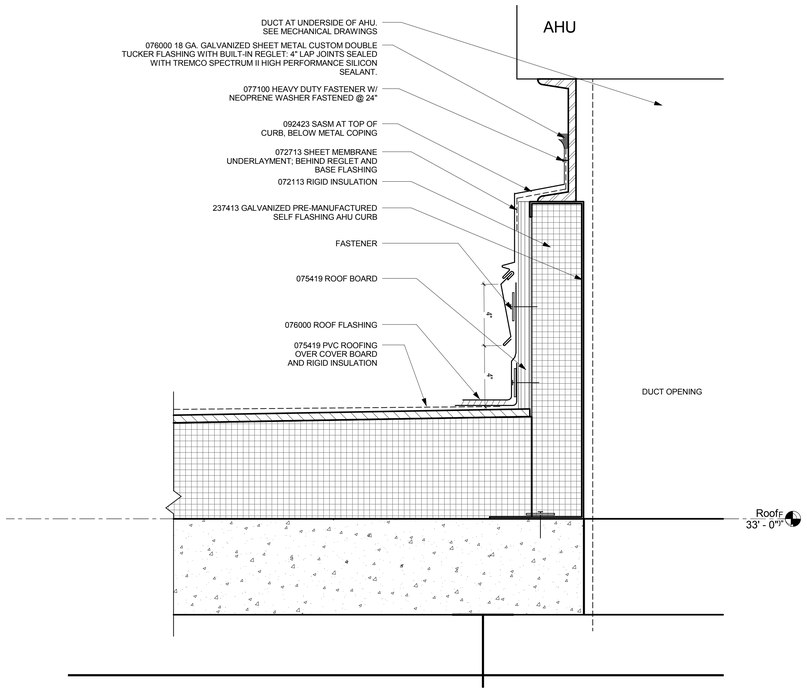
VA Project Number:
640-385

Building Number:
105

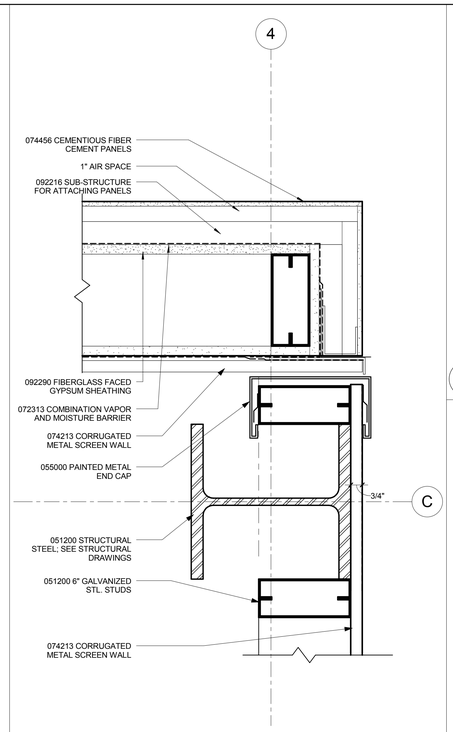
Drawing No.
A0423

VA PAHCS
Veterans Affairs Palo Alto Health Care System

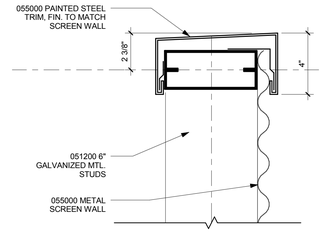
Department of Veterans Affairs



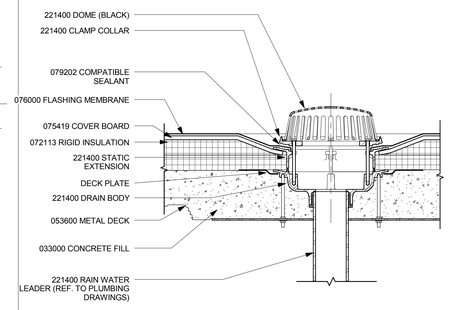
19 DETAIL AT AHU CURB AND RAIL
3" = 1'-0"



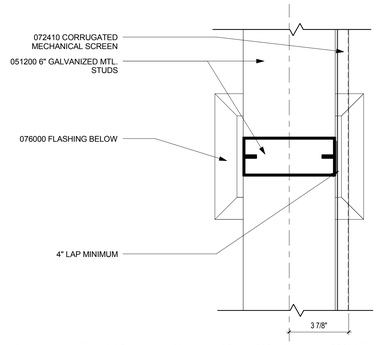
11 PLAN AT MECHANICAL SCREEN
3" = 1'-0"



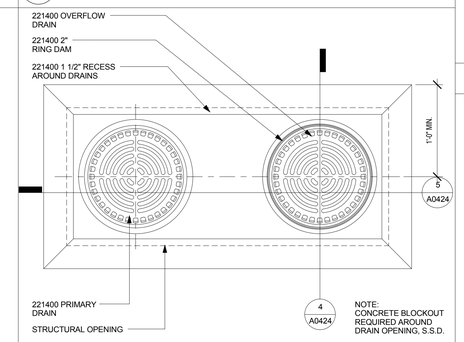
8 TYP. ROOF SCREEN HEAD DETAIL
3" = 1'-0"



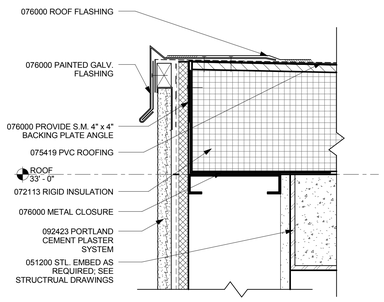
4 ROOF DRAIN SECTION
1 1/2" = 1'-0"



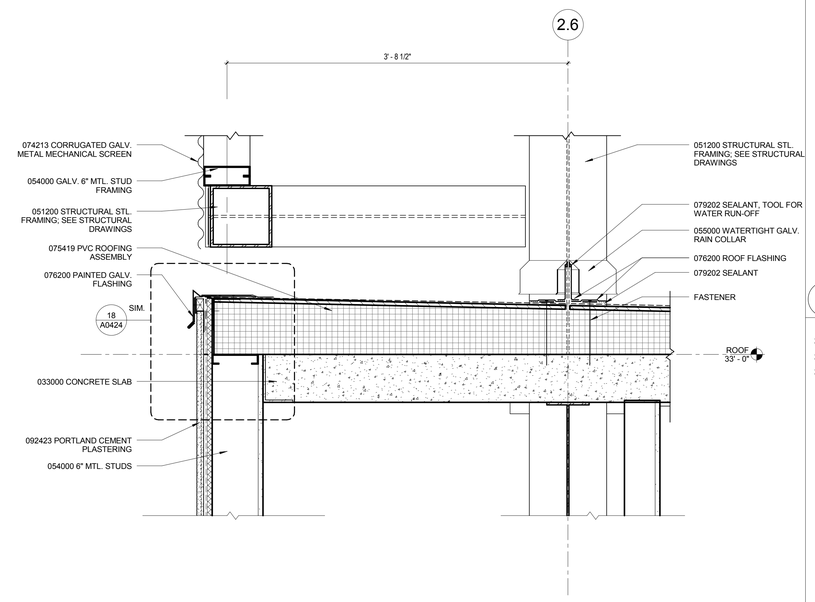
7 PLAN AT TYPICAL MECHANICAL SCREEN POST
3" = 1'-0"



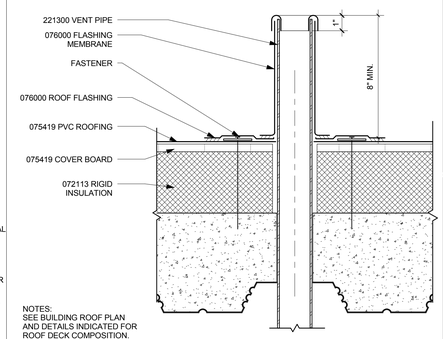
3 TYPICAL ROOF OVERFLOW DRAIN
1 1/2" = 1'-0"



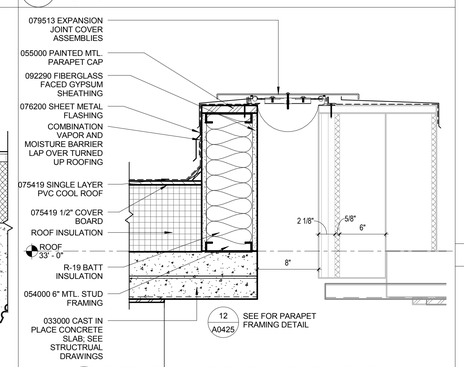
18 SECTION AT ROOF EDGE
3" = 1'-0"



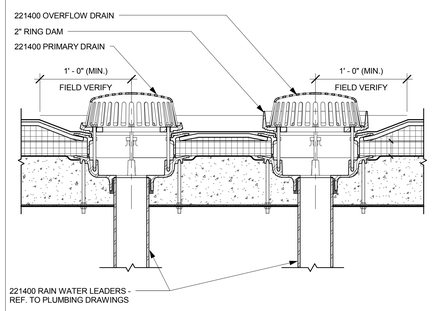
13 SECTION AT MECHANICAL SCREEN
1 1/2" = 1'-0"



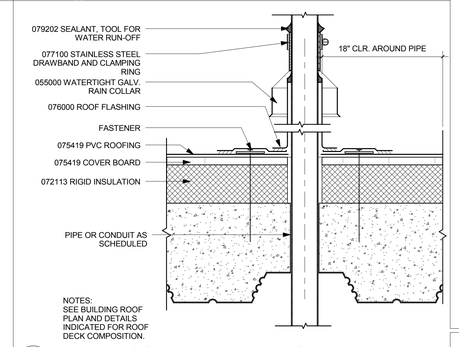
6 VENT DETAIL
3" = 1'-0"



2 SECTION AT PARAPET - SEISMIC JOINT
1 1/2" = 1'-0"



5 ROOF DRAIN SECTION
1 1/2" = 1'-0"



1 PIPE AND CONDUIT PENETRATION DETAIL
3" = 1'-0"

GENERAL NOTES

KEY NOTES

LEGEND

PROJECT NORTH
TRUE NORTH

ISSUE FOR BID

Revisions	Date
9	
8	
7	
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CONSULTANTS:

Seals and Signatures

ARCHITECT/ENGINEERS:

CANNONDESIGN

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Drawing Title: EXTERIOR DETAILS - ROOF

Approved: Project Director
Approver

Project Title: VA SIMULATION CENTER

Location: Veterans Affairs Palo Alto Heath Care System, 3801 Miranda Ave,Palo Alto, CA 94304

Date: JUNE 14, 2013 | Checked: CW | Drawn: BK

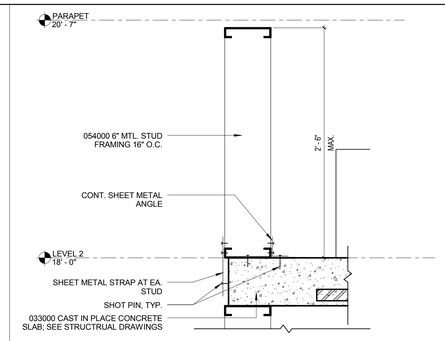
VA Project Number: 640-385

Building Number: 105

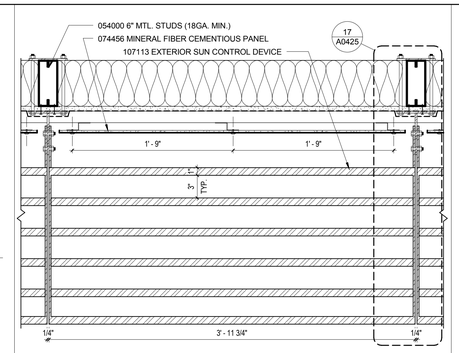
Drawing No. A0424

VA PAHCS Veterans Affairs Palo Alto Health Care System

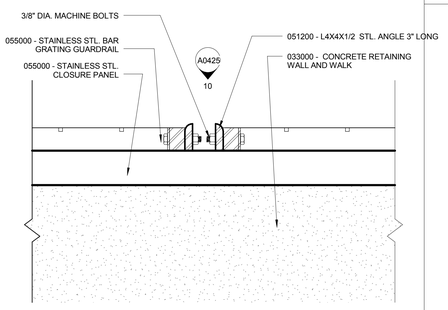
Department of Veterans Affairs



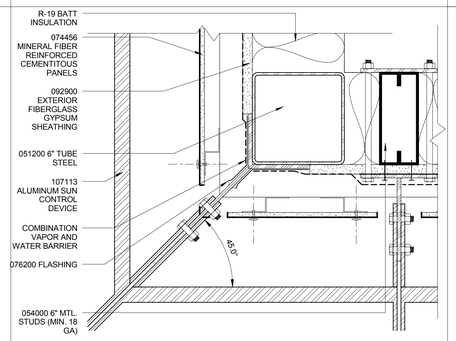
12 SECTION AT PARAPRET - FRAMING DETAIL
1 1/2" = 1'-0"



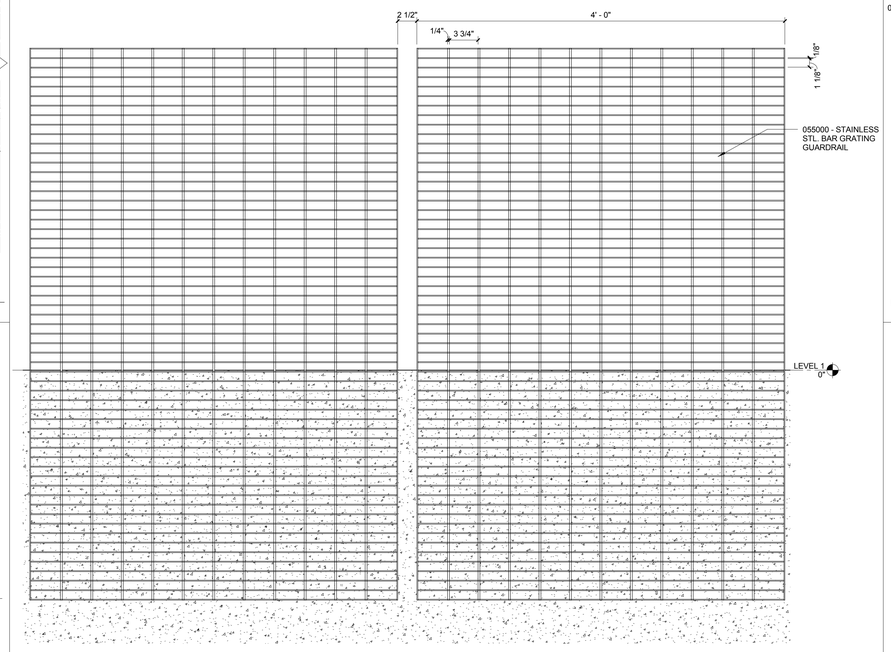
8 PLAN AT SUN CONTROL DEVICE - TYP.
1 1/2" = 1'-0"



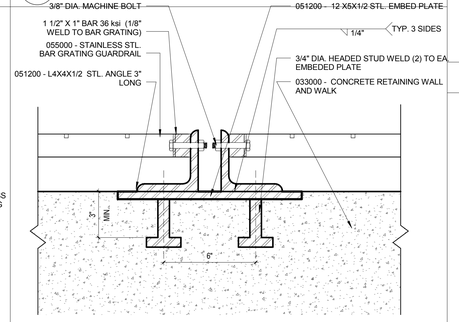
4 PLAN AT GUARDRAIL AT LEVEL 1
3" = 1'-0"



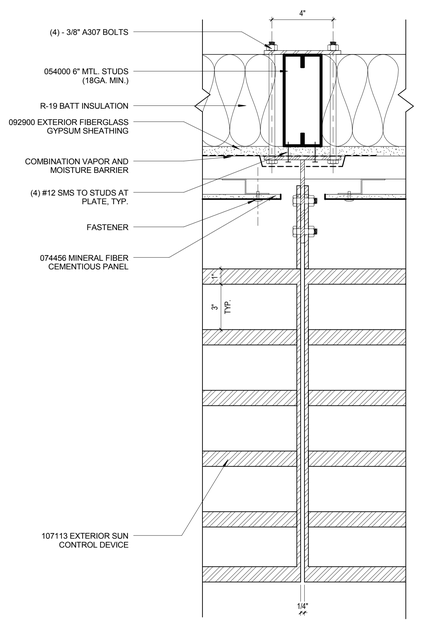
15 PLAN AT CORNER CONNECTION
3" = 1'-0"



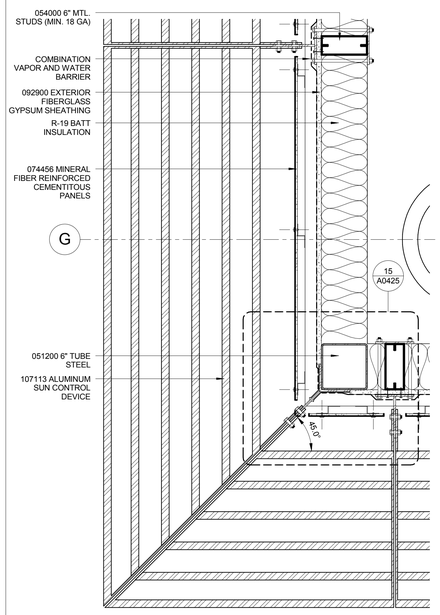
10 ELEVATION AT GUARDRAIL
1 1/2" = 1'-0"



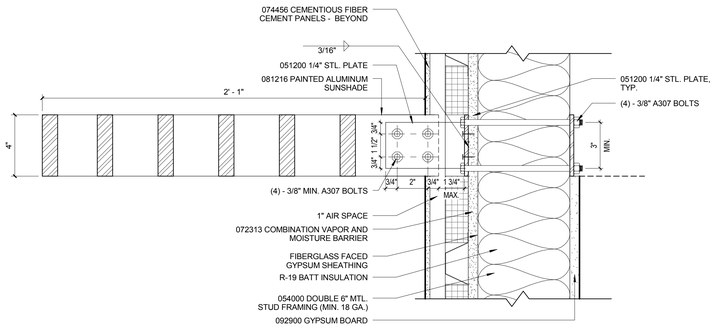
3 PLAN AT GUARDRAIL
3" = 1'-0"



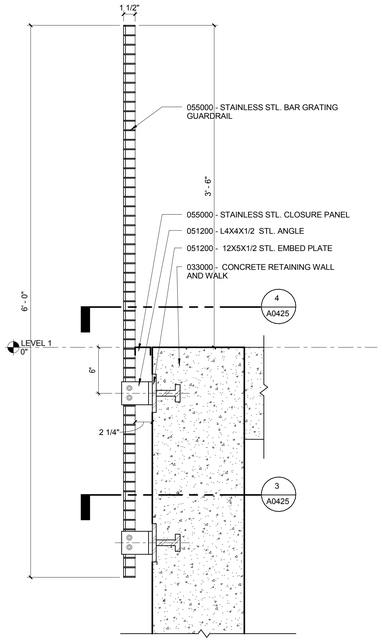
17 PLAN AT SUN CONTROL DEVICE CONNECTION
3" = 1'-0"



13 PLAN AT SUN CONTROL DEVICE - SOUTH CORNER
1 1/2" = 1'-0"



9 SECTION AT SUNSHADE
3" = 1'-0"



1 SECTION THRU GUARDRAIL
1 1/2" = 1'-0"

GENERAL NOTES

KEY NOTES

LEGEND

PROJECT NORTH
TRUE NORTH

ISSUE FOR BID

Revisions	Date
9	
8	
7	
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CONSULTANTS:

Seals and Signatures

ARCHITECT/ENGINEERS:

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Drawing Title
EXTERIOR DETAILS - MISC.

Project Title
VA SIMULATION CENTER

VA Project Number: 640-385

Building Number: 105

Approved: Project Director
Approver

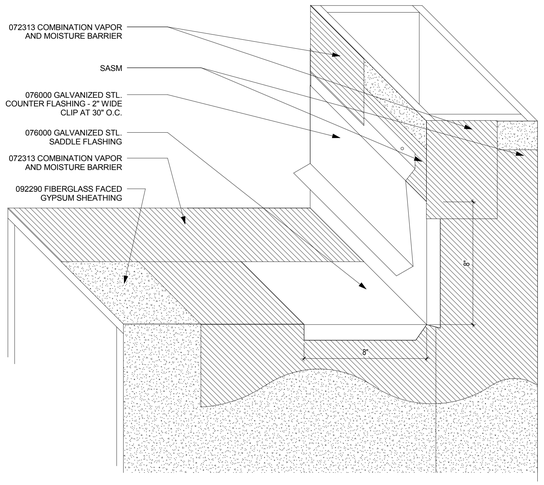
Location: Veterans Affairs Palo Alto Heath Care System, 3801 Miranda Ave,Palo Alto, CA 94304

Date: JUNE 14, 2013 | Checked: CW | Drawn: BK

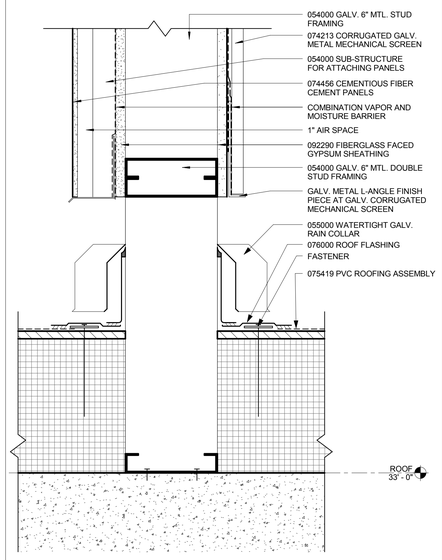
Drawing No. A0425

VA PAHCS Veterans Affairs Palo Alto Health Care System

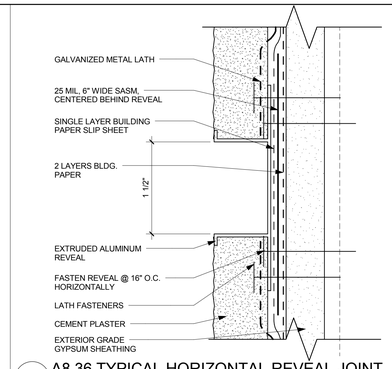
Department of Veterans Affairs



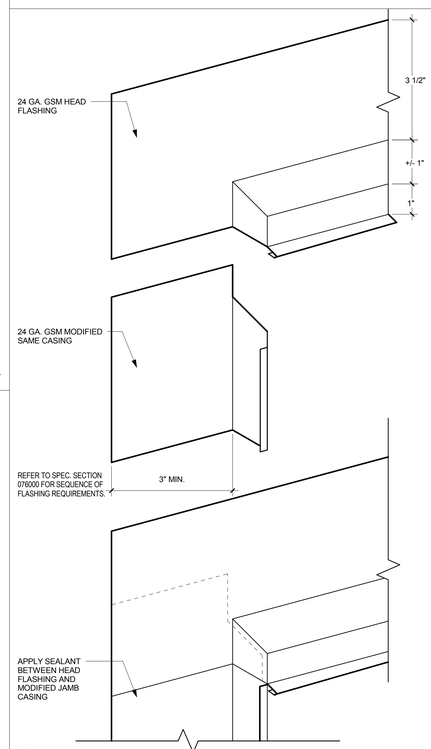
7 SADDLE FLASHING - AXON VIEW
3" = 1'-0"



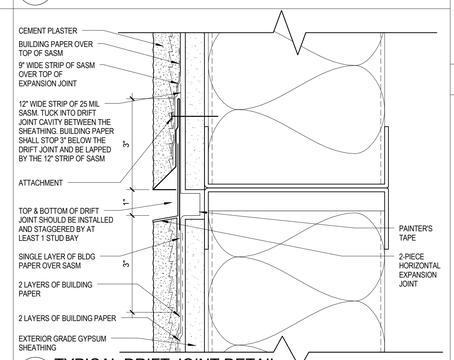
10 SECTION AT MECHANICAL SCREEN - SILL
3" = 1'-0"



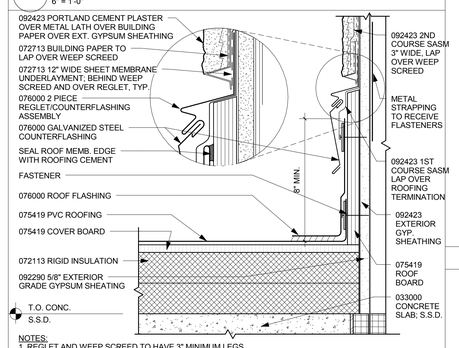
4 A8.36 TYPICAL HORIZONTAL REVEAL JOINT
12" = 1'-0"



6 HM DOOR HEAD DETAILING AT PLASTER ISOMETRIC
6" = 1'-0"

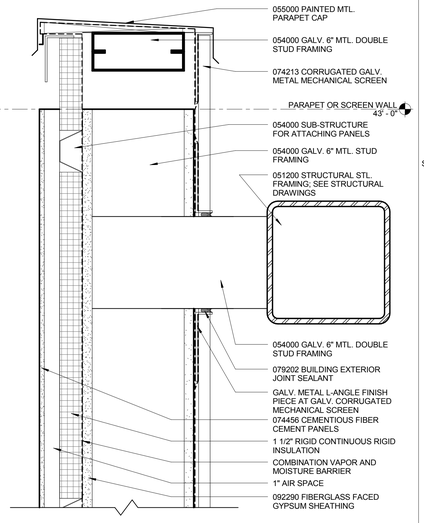


3 TYPICAL DRIFT JOINT DETAIL
6" = 1'-0"

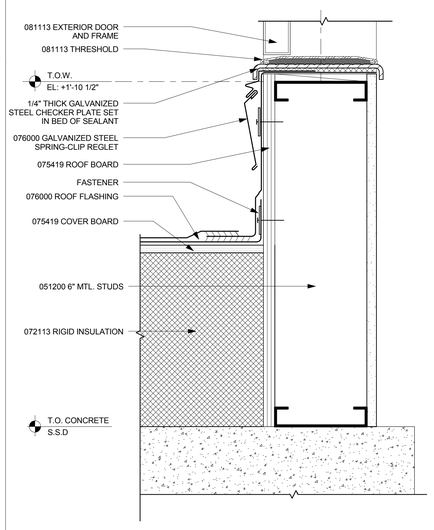


NOTES:
1. REGLET AND WEEP SCREED TO HAVE 3" MINIMUM LEGS.
2. INSTALL CONT. BACKING @ BASE OF SHEATHING.
3. FOR ADDITIONAL NOTES SEE 1/A0426

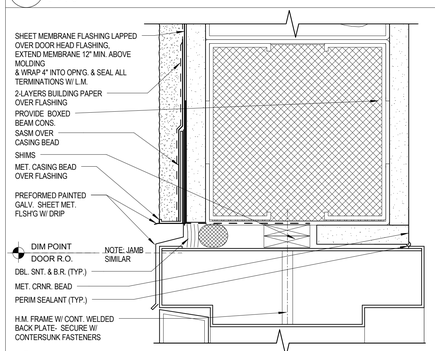
2 TYP. FLASHING AT STUCCO WALL
3" = 1'-0"



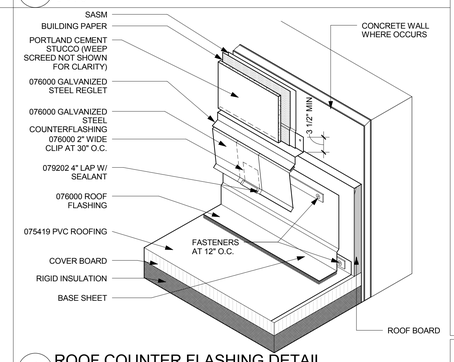
12 SECTION AT MECHANICAL SCREEN - HEAD
3" = 1'-0"



9 THRESHOLD AT LEVEL 2 EXTRIOR DOOR
3" = 1'-0"



5 HOLLOW METAL DOOR FLASHING - HEAD
6" = 1'-0"



1 ROOF COUNTER FLASHING DETAIL
3" = 1'-0"

GENERAL NOTES

KEY NOTES

LEGEND

PROJECT NORTH
TRUE NORTH

ISSUE FOR BID

Revisions	Date
9	
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CONSULTANTS:

Seals and Signatures

ARCHITECT/ENGINEERS:

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Drawing Title
EXTERIOR DETAILS - PORTLAND CEMENT PLASTER

Approved: Project Director
Approver

Project Title
VA SIMULATION CENTER

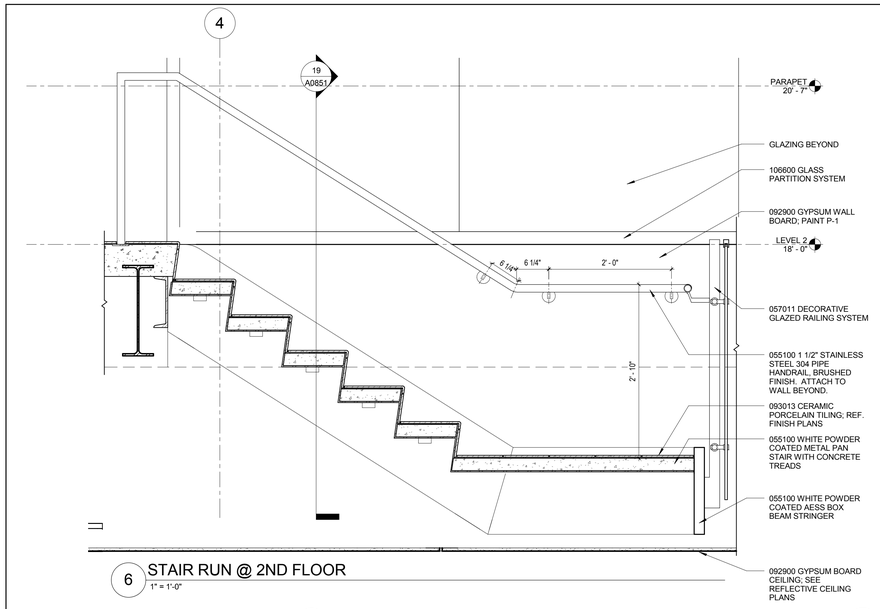
Location
Veterans Affairs Palo Alto Heath Care System
3801 Miranda Ave,Palo Alto, CA 94304

Date: JUNE 14, 2013
Checked: CW
Drawn: BK

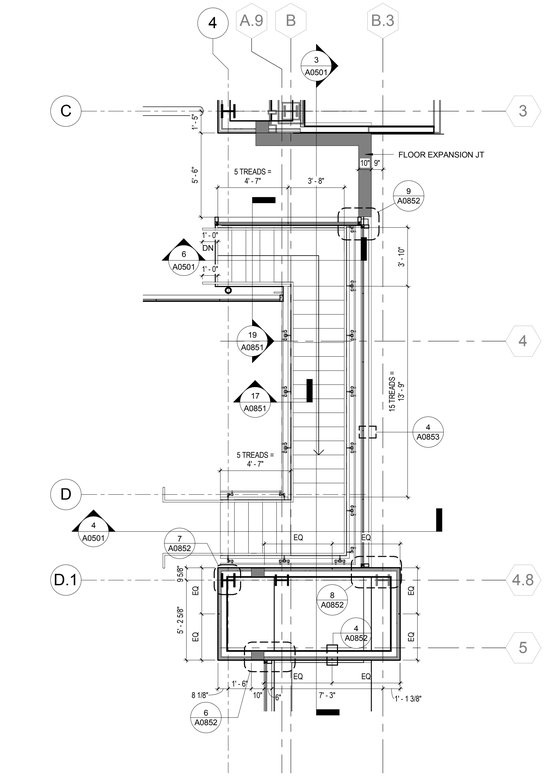
VA Project Number: 640-385
Building Number: 105
Drawing No. A0426

VA PAHCS Veterans Affairs Palo Alto Health Care System

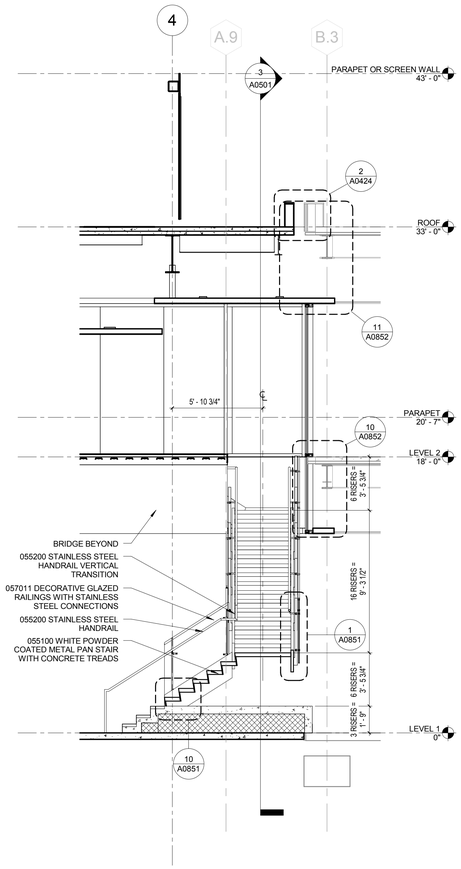
Department of Veterans Affairs



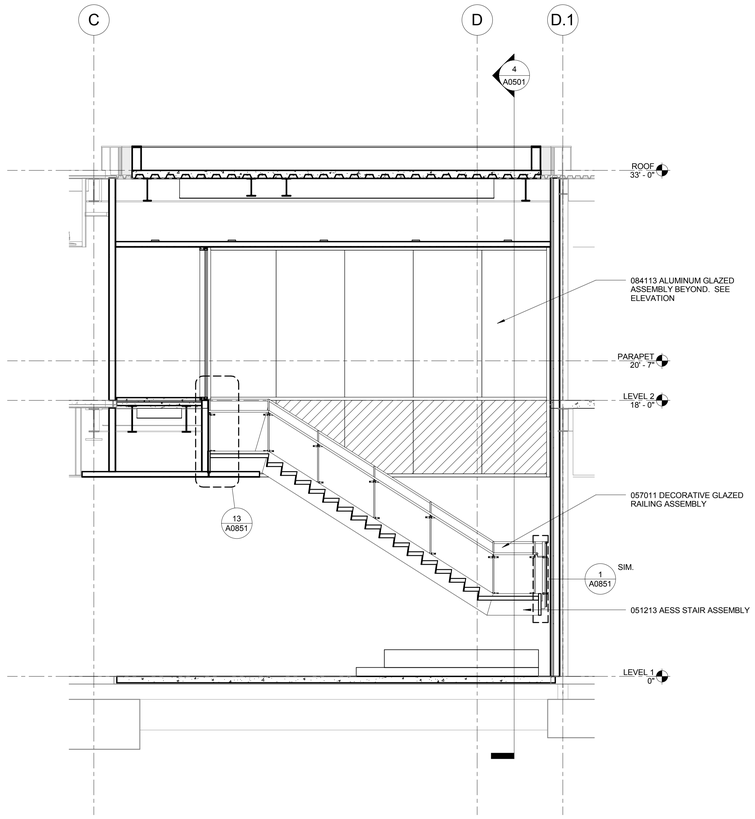
6 STAIR RUN @ 2ND FLOOR
1" = 1'-0"



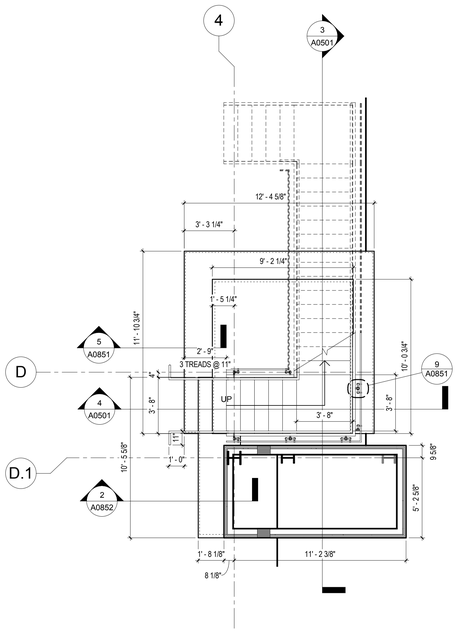
2 STAIR PLAN AT LEVEL 2
1/4" = 1'-0"



4 SECTION THRU STAIR AT LANDING
1/4" = 1'-0"



3 SECTION THRU STAIR
1/4" = 1'-0"



1 STAIR PLAN AT LEVEL 1
1/4" = 1'-0"

GENERAL NOTES

1. THE SCOPE IN SHEET A0501 IS ALTERNATE #1

KEY NOTES

LEGEND

PROJECT NORTH
TRUE NORTH

ISSUE FOR BID

Revisions	Date
9	
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CONSULTANTS:

Seals and Signatures

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Drawing Title
STAIR PLANS AND SECTIONS

Approved: Project Director
Approver

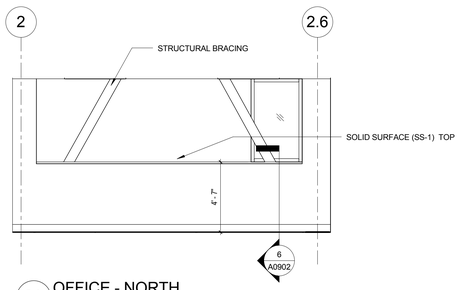
Project Title
VA SIMULATION CENTER

Location
Veterans Affairs Palo Alto Heath Care System
3801 Miranda Ave,Palo Alto, CA 94304

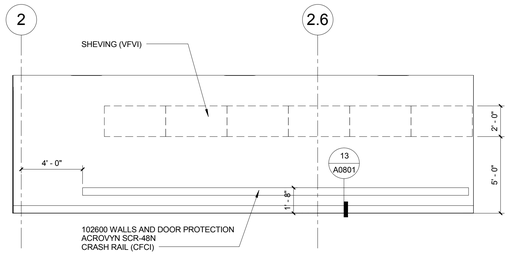
Date: JUNE 14, 2013
Checked: CW
Drawn: BK

VA Project Number: 640-385
Building Number: 105
Drawing No. A0501

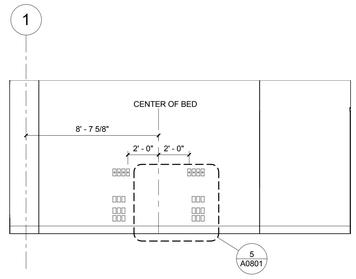
VA PAHCS Veterans Affairs Palo Alto Health Care System
Department of Veterans Affairs



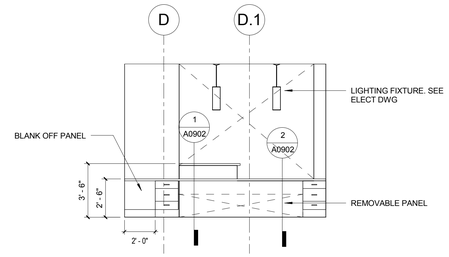
8A OFFICE - NORTH
1/4" = 1'-0"



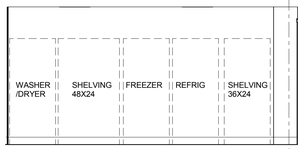
7A STORAGE - NORTH ELEVATION
1/4" = 1'-0"



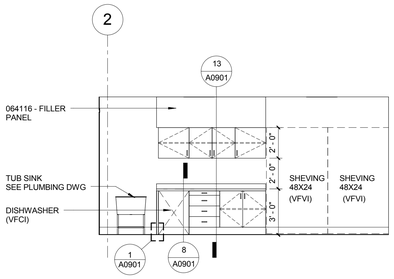
6A PATIENT ROOM B 156 - NORTH
1/4" = 1'-0"



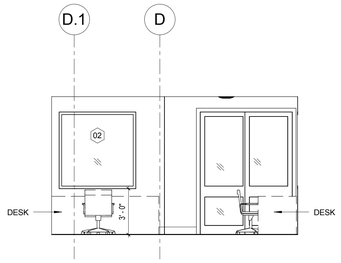
5B RECEPTION - WEST
1/4" = 1'-0"



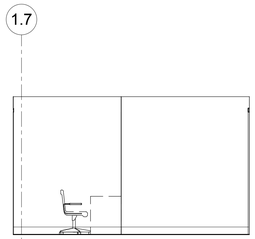
4D WET AND DRY - SOUTH
1/4" = 1'-0"



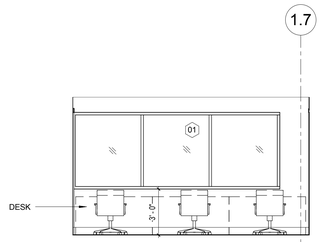
4A WET AND DRY - NORTH
1/4" = 1'-0"



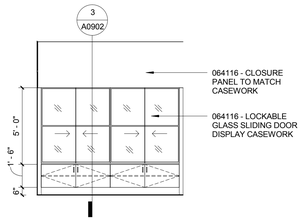
3D CONTROL - WEST
1/4" = 1'-0"



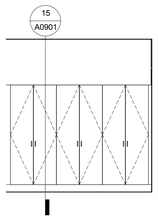
3C CONTROL - SOUTH
1/4" = 1'-0"



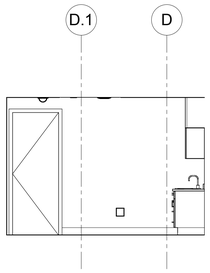
3A CONTROL - NORTH
1/4" = 1'-0"



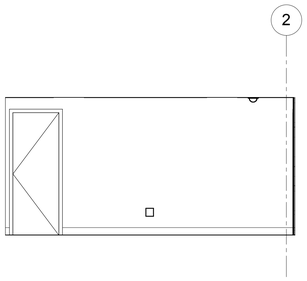
2D VESTIBULE - WEST
1/4" = 1'-0"



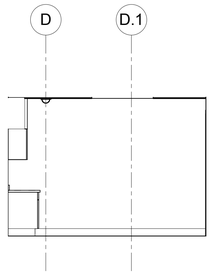
2B VESTIBULE - EAST
1/4" = 1'-0"



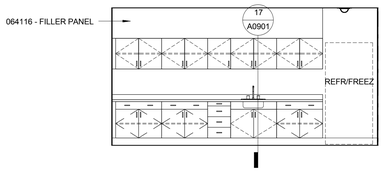
1D SEQUESTRATION - WEST
1/4" = 1'-0"



1C SEQUESTARTION - SOUTH
1/4" = 1'-0"



1B SEQUESTRATION - EAST
1/4" = 1'-0"



1A SEQUESTRATION - NORTH
1/4" = 1'-0"

GENERAL NOTES

1. FURNITURE ARE SHOWN AS REFERENCE ONLY.
2. EQUIPMENTS ARE SHOWN AS REFERENCE ONLY. REFER TO EQUIPMENT LIST FOR VFCI EQUIPMENTS.
3. REFER TO FINISH PLANS FOR FINISHES INFORMATION U.O.N

KEY NOTES

LEGEND

PROJECT NORTH
TRUE NORTH

ISSUE FOR BID

Revisions	Date
9	
8	
7	
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CONSULTANTS:

Seals and Signatures

ARCHITECT/ENGINEERS:

CANNONDESIGN
201 Mission Street, Suite 2400, San Francisco, California 94105 415.243.4170
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Vancouver ■ Victoria ■ Washington DC

Drawing Title: INTERIOR ELEVATIONS

Approved: Project Director
Approver

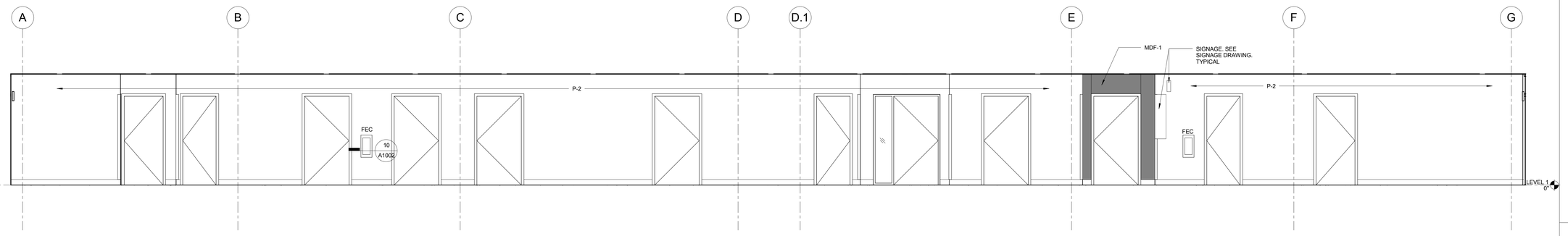
Project Title: VA SIMULATION CENTER

Location: Veterans Affairs Palo Alto Heath Care System, 3801 Miranda Ave,Palo Alto, CA 94304

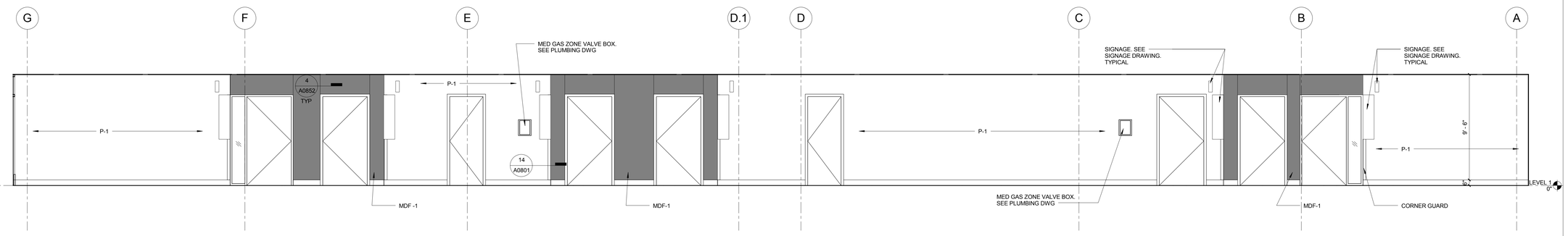
Date: JUNE 14, 2013 | Checked: CW | Drawn: WK

VA Project Number: 640-385
Building Number: 105
Drawing No. A0601

VA PAHCS Veterans Affairs Palo Alto Health Care System
Department of Veterans Affairs



2 C10 CORRIDOR - EAST ELEVATION
1/4" = 1'-0"



1 C10 CORRIDOR - WEST ELEVATION
1/4" = 1'-0"

GENERAL NOTES

1. FURNITURE ARE SHOWN AS REFERENCE ONLY.
2. EQUIPMENTS ARE SHOWN AS REFERENCE ONLY. REFER TO EQUIPMENT LIST FOR VFCI EQUIPMENTS.
3. REFER TO FINISH PLANS FOR FINISHES INFORMATION U.O.N

KEY NOTES

LEGEND

PROJECT NORTH
TRUE NORTH

ISSUE FOR BID

Revisions	Date
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CONSULTANTS:

Seals and Signatures

ARCHITECT/ENGINEERS:

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Vancouver ■ Victoria ■ Washington DC

Drawing Title
INTERIOR ELEVATIONS

Approved: Project Director
Approver

Project Title
VA SIMULATION CENTER

Location
Veterans Affairs Palo Alto Heath Care System
3801 Miranda Ave,Palo Alto, CA 94304

Date
JUNE 14, 2013

Checked
CW

Drawn
WK

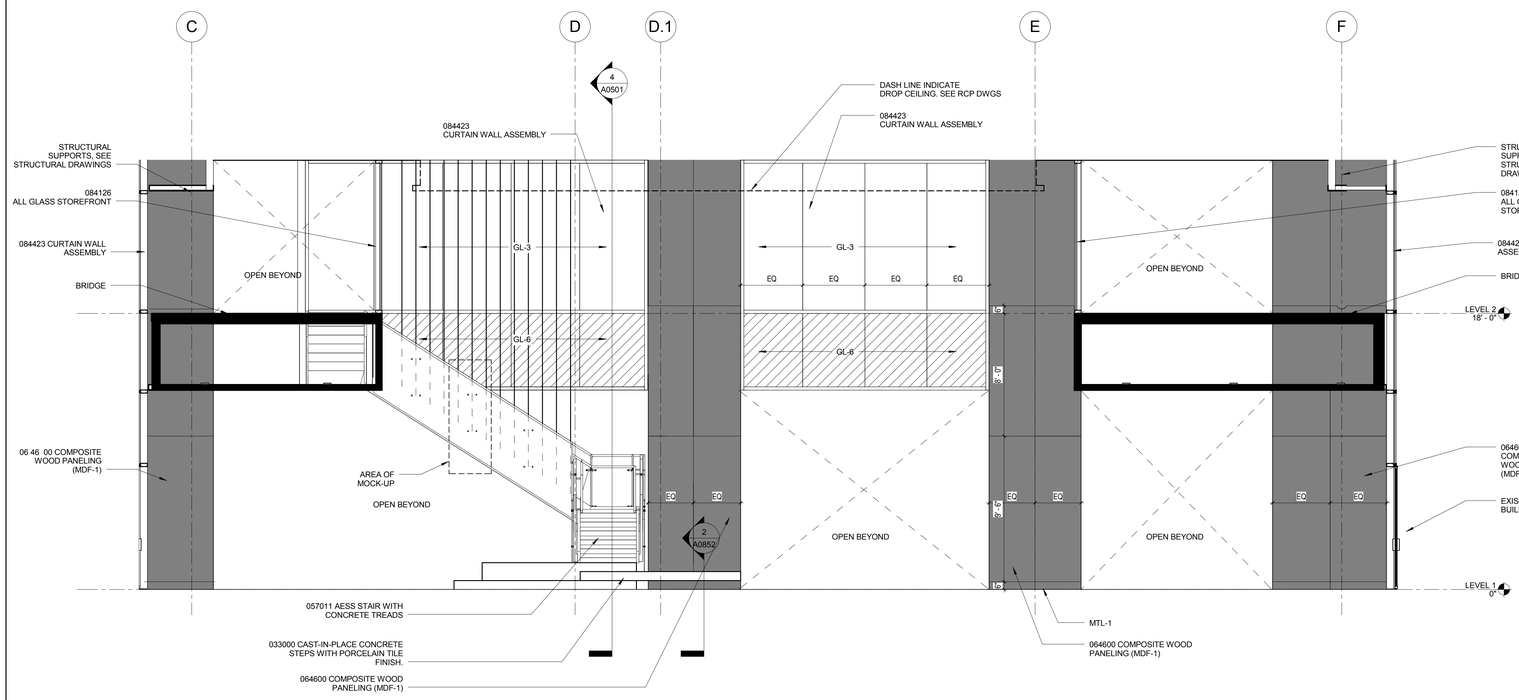
VA Project Number:
640-385

Building Number:
105

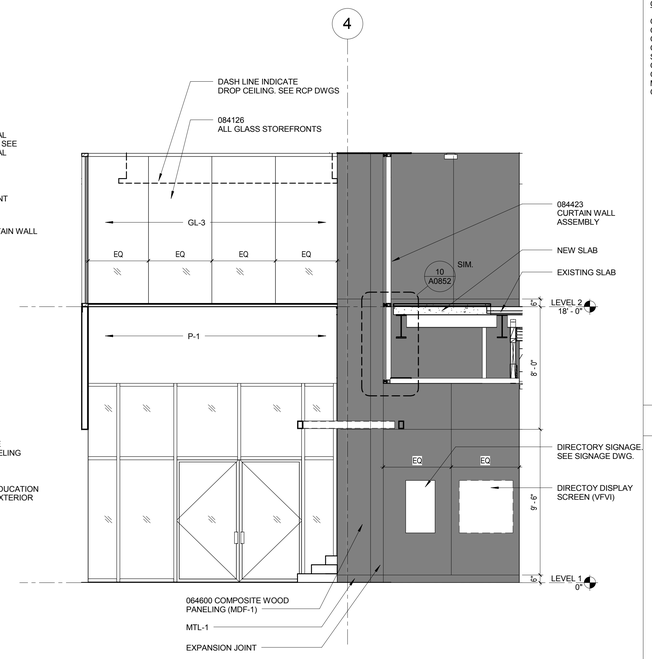
Drawing No.
A0602

VA PAHCS
Veterans Affairs Palo Alto Health Care System

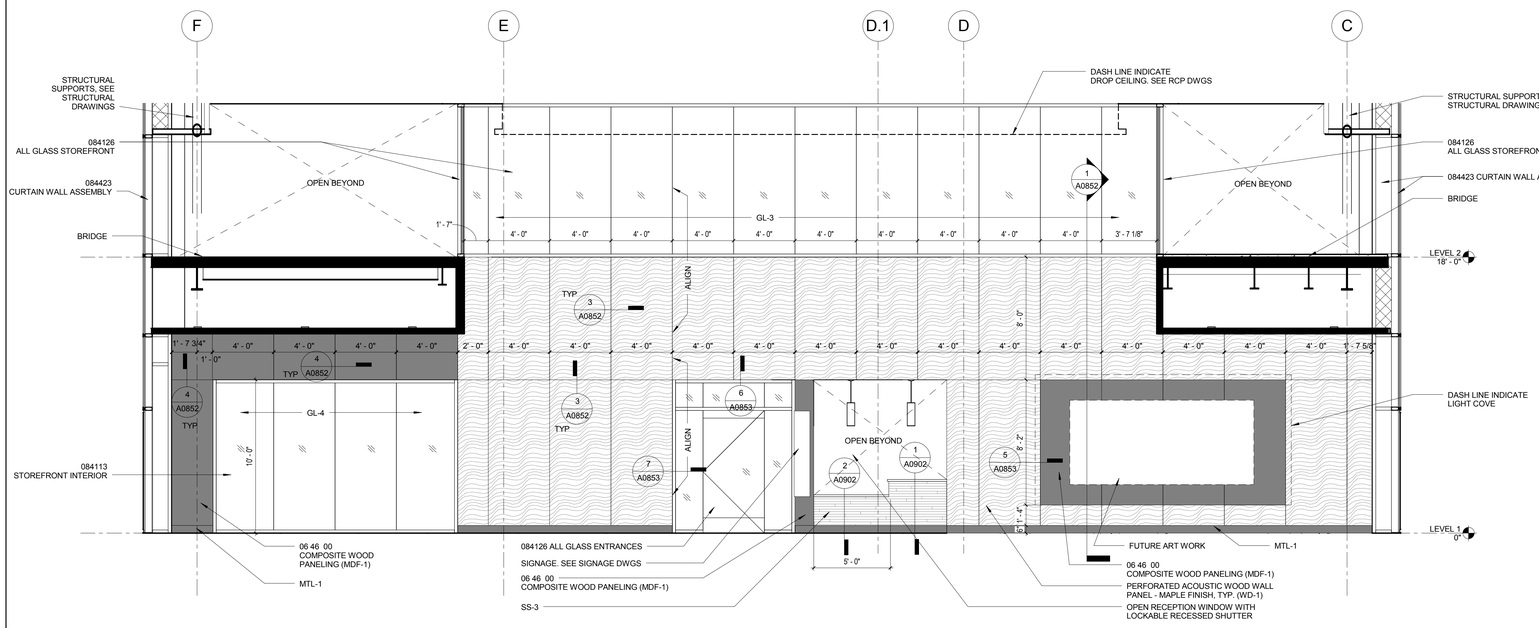
Department of Veterans Affairs



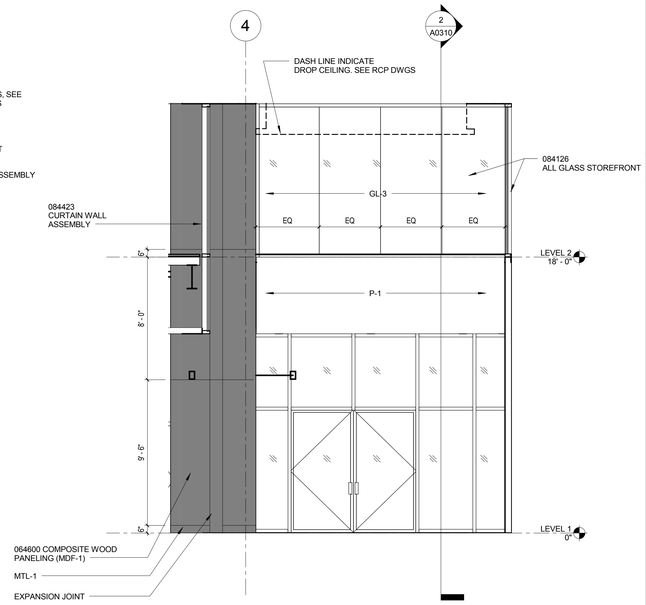
1B LOBBY EAST ELEVATION
1/4" = 1'-0"



1A LOBBY NORTH ELEVATION
1/4" = 1'-0"



1D LOBBY WEST ELEVATION
1/4" = 1'-0"



1C LOBBY SOUTH ELEVATION
1/4" = 1'-0"

GENERAL NOTES

GLASS TYPE

GL-1 : INSULATED EXTERIOR GLASS
GL-2 : INSULATED EXTERIOR SPANDREL GLASS
GL-3 : TEMPERED GLASS
GL-4 : DECORATIVE TEMPERED GLASS (DEBRIEFING 3) : SKYLINE DESIGN, 5+ COLLECTION, AVENUE SE
GL-5: ACOUSTICAL MIRRORED GLASS (CONTROL ROOMS)
GL-6 : SPANDREL GLASS (ATRIUM) : SATIN DECO, ULTRA MIRROR.
GL-7 : FIRE RATED GLASS

KEY NOTES

LEGEND

PROJECT NORTH
TRUE NORTH

ISSUE FOR BID

Revisions	Date
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CONSULTANTS:

Seals and Signatures

ARCHITECT/ENGINEERS:

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Vancouver ■ Victoria ■ Washington DC

Drawing Title
INTERIOR ELEVATIONS

Approved: Project Director
Approver

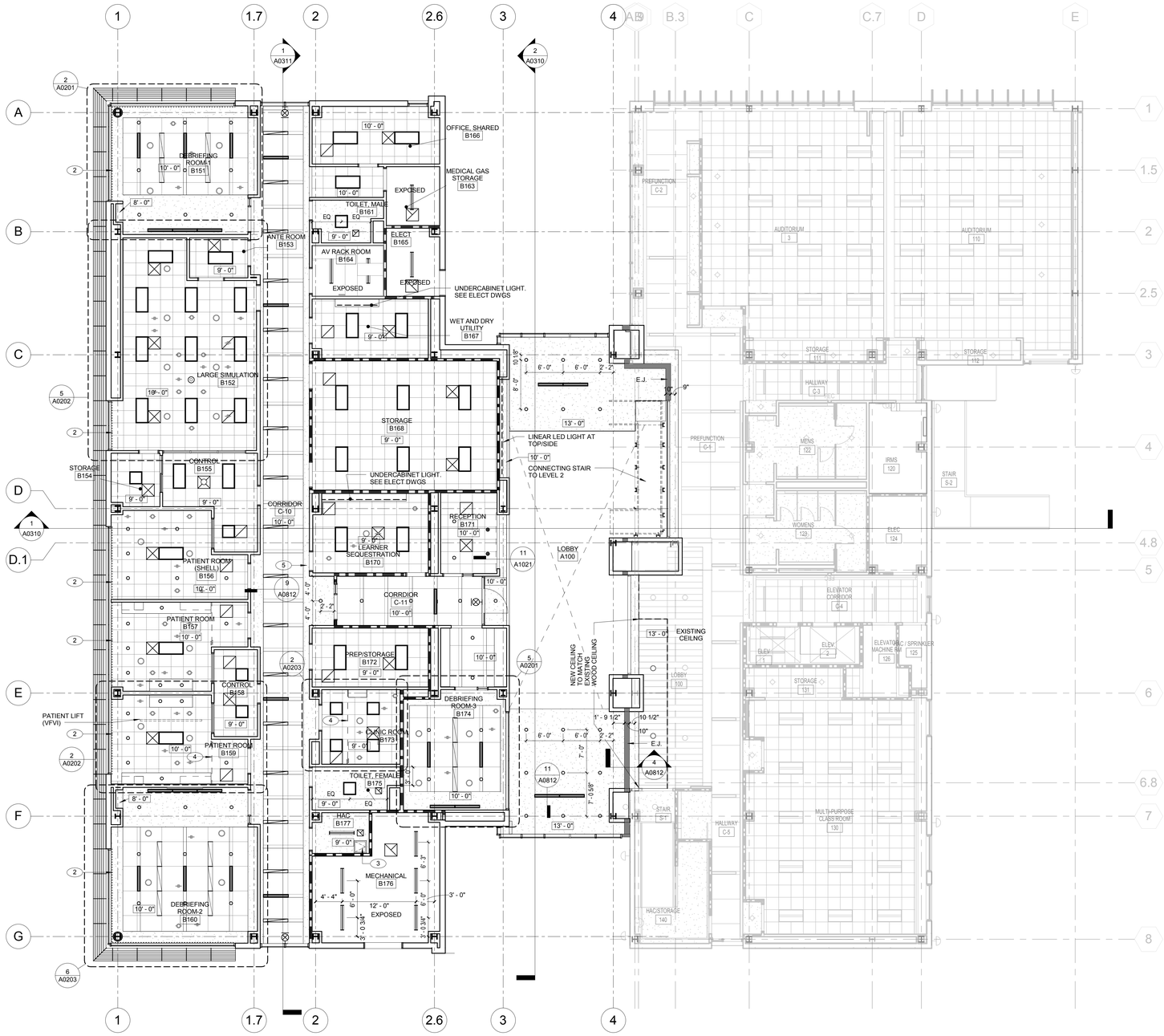
Project Title
VA SIMULATION CENTER

Location
Veterans Affairs Palo Alto Heath Care System
3801 Miranda Ave,Palo Alto, CA 94304

Date: JUNE 14, 2013
Checked: CW
Drawn: WK

VA Project Number: 640-385
Building Number: 105
Drawing No. A0603

VA PAHCS Veterans Affairs Palo Alto Health Care System
Department of Veterans Affairs



1 LEVEL 01 REFLECTED CEILING PLAN
1/8" = 1'-0"

GENERAL NOTES

1. SEE ELECTRICAL DRAWINGS FOR LIGHTING FIXTURES
2. SEE AV DRAWINGS FOR CEILING MOUNTED AV EQUIPMENTS.
3. SEE MECHANICAL DRAWINGS FOR DIFFUSERS.
4. CENTER CEILING TILES IN ROOM, U.O.N.
5. CENTER ALL CEILING MOUNTED ITEMS IN CEILING, U.O.N.
6. DO NOT INSTALL CEILING TILES UTIL ALL OVER CEILING CABLES (e.g. AV/TELECOM) ARE INSTALLED.
7. ALL GYP CEILINGS ARE PAINT (P-1), U.N.O.

KEY NOTES

1. ATRIUM SMOKE CONTROL EXHAUST DIFFUSER. SEE MECH. DWGS
2. WINDOW SHADE POCKET. SEE DETAIL 1/A0812
3. ACCESS PANEL. SEE DETAIL 10/A0812
4. CUBICLE CURTAIN TRACK. SEE DETAIL 8/A0812
5. GYP CEILNIG TO BE PAINTED WITH P-2
6. PLENUM CEILING. PROVIDE HOLDING DOWN CLIP

LEGEND

LIGHTING LEGEND

- RECESSED CIRCULAR DOWNLIGHT
- PENDANT LIGHT
- 2' X 4' FLUORESCENT FIXTURE
- 2' X 2' FLUORESCENT FIXTURE
- LINEAR STRIP LIGHT
- RECESSED LINEAR LIGHT 6" X 4'
- RECESSED LINEAR DIFFUSER. SEE MECH. DWG
- EXIT SIGNAGE - LIT SIGN
- RETURN DIFFUSER SEE MECH. DWG
- SUPPLY DIFFUSER SEE MECH. DWG
- EXHAUST FAN SEE MECH. DWG

CEILING LEGEND

ACOUSTICAL CEILING TILE
MANUFACTURER:AMSTRONG
PRODUCT:OPTIMA
DIMENSIONS: 2' X 2' - BEVELED TEGULAR
COLOR: WHITE
GRID: ARMSTRONG INTERLUDE 9/16"

ACOUSTICAL CEILING TILE
MANUFACTURER:AMSTRONG
PRODUCT: OPTIMA
DIMENSIONS: 4' X 6' AND 4' X 8'
DIMENSIONS: 4' X 4' AND 4' X 3' - 6"
(DEBRIEFING ROOM)
COLOR: WHITE
GRID: ARMSTRONG INTERLUDE 9/16"
EDGE: BEVELED TEGULAR

ACOUSTICAL CEILING TILE
MANUFACTURER:AMSTRONG
PRODUCT: TECHZONE
DIMENSIONS: 4' X 0'-6"
COLOR: WHITE
GRID: ARMSTRONG INTERLUDE 9/16"
EDGE: BEVELED TEGULAR

PAINTED GYPSUM BOARD CEILING
COLOR: P-1, U.N.O

EXPOSED CEILING

WOOD PANEL CEILING
MANUFACTURER:AMSTRONG
PRODUCT: WOODWORK ACCESS
DIMENSIONS: 1' X 6'
SPECIES: NATURAL MAPLE (MATCH EXISTING)
PERFORATION: NONE

PROJECT NORTH
TRUE NORTH

ISSUE FOR BID

Revisions	Date
9	
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CONSULTANTS:

Seals and Signatures

ARCHITECT/ENGINEERS:

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Drawing Title: REFLECTED CEILING PLAN - LEVEL 1

Approved: Project Director
Approver

Project Title: VA SIMULATION CENTER

Location: Veterans Affairs Palo Alto Heath Care System, 3801 Miranda Ave,Palo Alto, CA 94304

Date: JUNE 14, 2013 | Checked: CW | Drawn: WK

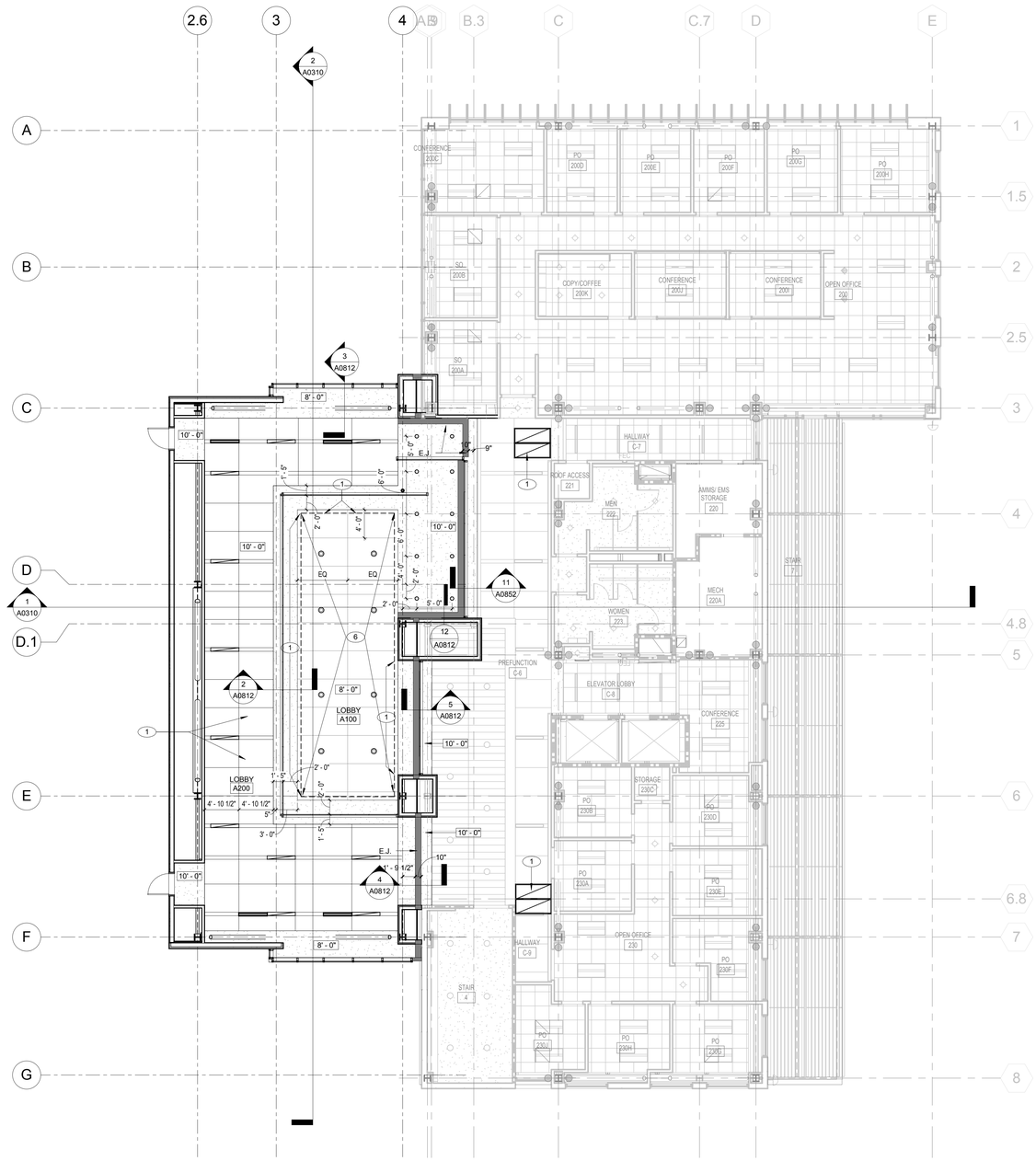
VA Project Number: 640-385

Building Number: 105

Drawing No. A0701

VA PAHCS Veterans Affairs Palo Alto Health Care System

Department of Veterans Affairs



1 LEVEL 2 REFLECTED CEILING PLAN
1/8" = 1'-0"

GENERAL NOTES

1. SEE ELECTRICAL DRAWINGS FOR LIGHTING FIXTURES
2. SEE AV DRAWINGS FOR CEILING MOUNTED AV EQUIPMENTS.
3. SEE MECHANICAL DRAWINGS FOR DIFFUSERS.
4. CENTER CEILING TILES IN ROOM, U.O.N.
5. CENTER ALL CEILING MOUNTED ITEMS IN CEILING, U.O.N.
6. DO NOT INSTALL CEILING TILES UTIL ALL OVER CEILING CABLES (e.g. AV/TELECOM) ARE INSTALLED.
7. ALL GYP CEILINGS ARE PAINT (P-1), U.N.O.

KEY NOTES

1. ATRIUM SMOKE CONTROL EXHAUST DIFFUSER. SEE MECH. DWGS
2. WINDOW SHADE POCKET. SEE DETAIL 1/A0812
3. ACCESS PANEL. SEE DETAIL 10/A0812
4. CUBICLE CURTAIN TRACK. SEE DETAIL 8/A0812
5. GYP CEILNIG TO BE PAINTED WITH P-2
6. PLENUM CEILING. PROVIDE HOLDING DOWN CLIP

LEGEND

LIGHTING LEGEND

- RECESSED CIRCULAR DOWNLIGHT
- PENDANT LIGHT
- 2' X 4' FLUORESCENT FIXTURE
- 2' X 2' FLUORESCENT FIXTURE
- LINEAR STRIP LIGHT
- RECESSED LINEAR LIGHT 6" X 4'
- RECESSED LINEAR DIFFUSER. SEE MECH. DWG
- EXIT SIGNAGE - LIT SIGN
- RETURN DIFFUSER SEE MECH. DWG
- SUPPLY DIFFUSER SEE MECH. DWG
- EXHAUST FAN SEE MECH. DWG

CEILING LEGEND

ACOUSTICAL CEILING TILE
MANUFACTURER:AMSTRONG
PRODUCT:OPTIMA
DIMENSIONS: 2' X 2' - BEVELED TEGULAR
COLOR: WHITE
GRID: ARMSTRONG INTERLUDE 9/16"

ACOUSTICAL CEILING TILE
MANUFACTURER:AMSTRONG
PRODUCT: OPTIMA
DIMENSIONS: 4' X 6' AND 4' X 8'
DIMENSIONS: 4' X 4' AND 4' X 3' - 6" (DEBRIEFING ROOM)
COLOR: WHITE
GRID: ARMSTRONG INTERLUDE 9/16"
EDGE: BEVELED TEGULAR

ACOUSTICAL CEILING TILE
MANUFACTURER:AMSTRONG
PRODUCT: TECHZONE
DIMENSIONS: 4' X 0'-6"
COLOR: WHITE
GRID: ARMSTRONG INTERLUDE 9/16"
EDGE: BEVELED TEGULAR

PAINTED GYPSUM BOARD CEILING
COLOR: P-1, U.N.O

EXPOSED CEILING

WOOD PANEL CEILING
MANUFACTURER:AMSTRONG
PRODUCT: WOODWORK ACCESS
DIMENSIONS: 1' X 6'
SPECIES: NATURAL MAPLE (MATCH EXISTING)
PERFORATION: NONE

PROJECT NORTH
TRUE NORTH

ISSUE FOR BID

Revisions	Date
9	
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CONSULTANTS:

Seals and Signatures

ARCHITECT/ENGINEERS:

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Drawing Title
REFLECTED CEILING PLAN - LEVEL 2

Approved: Project Director
Approver

Project Title
VA SIMULATION CENTER

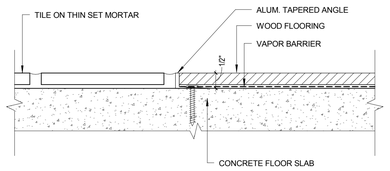
Location
Veterans Affairs Palo Alto Heath Care System
3801 Miranda Ave,Palo Alto, CA 94304

Date: JUNE 14, 2013
Checked: CW
Drawn: WK

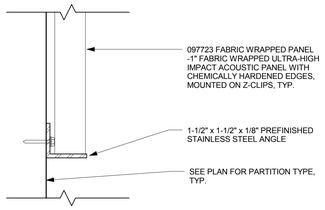
VA Project Number: 640-385
Building Number: 105
Drawing No. A0702

VA PAHCS Veterans Affairs Palo Alto Health Care System

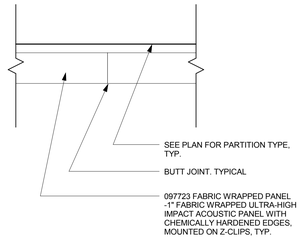
Department of Veterans Affairs



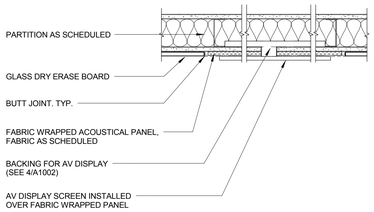
15 TRANSITION - TILE/WOOD
6" = 1'-0"



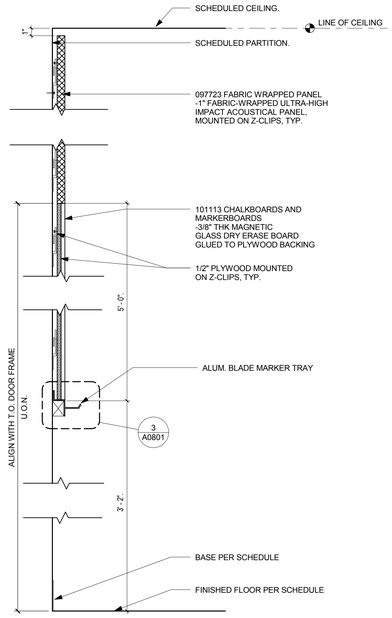
11 ACOUSTICAL WALL PANEL - BASE
6" = 1'-0"



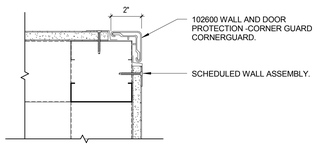
7 ACOUSTICAL WALL PANEL - BUTT JOINT
6" = 1'-0"



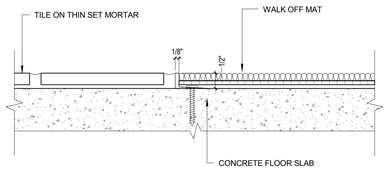
4 ACOUSTICAL WALL PANEL - AV DISPLAY
1 1/2" = 1'-0"



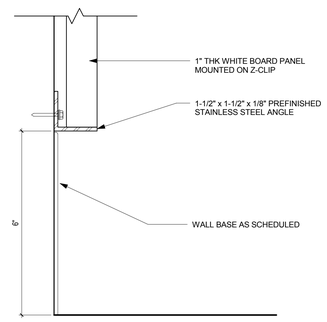
2 ACOUSTICAL WALL PANEL
1 1/2" = 1'-0"



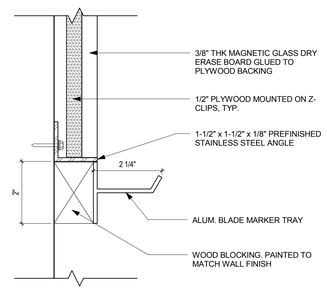
14 CORNER GUARD
3" = 1'-0"



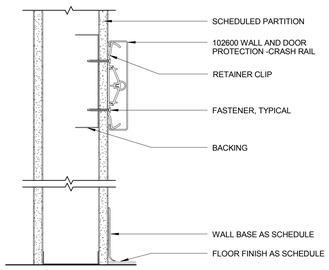
10 TRANSITION - TILE/WALK OFF MAT
6" = 1'-0"



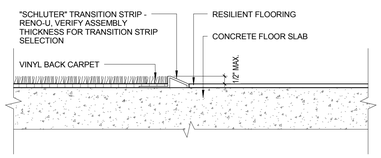
6 WHITE BOARD - BASE
6" = 1'-0"



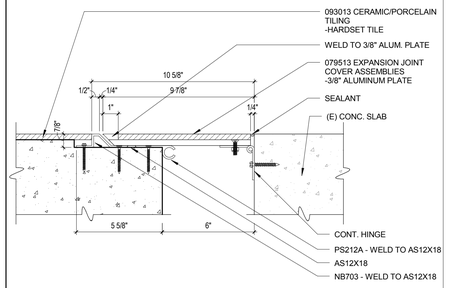
3 MARKER TRAY
6" = 1'-0"



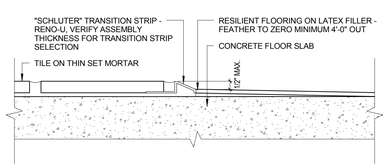
13 CRASH RAIL
3" = 1'-0"



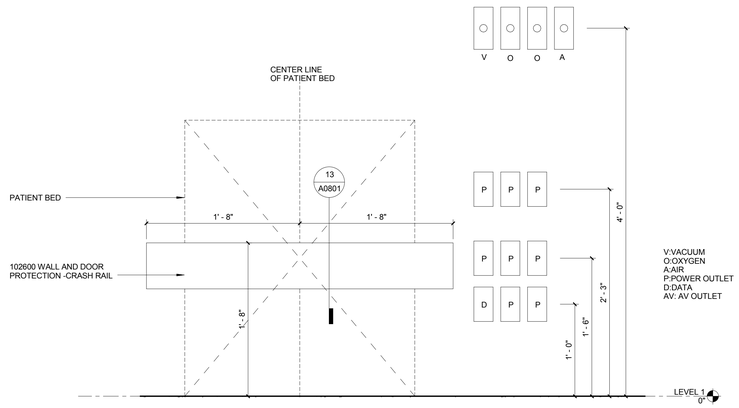
9 TRANSITION - CARPET/RESILIENT
6" = 1'-0"



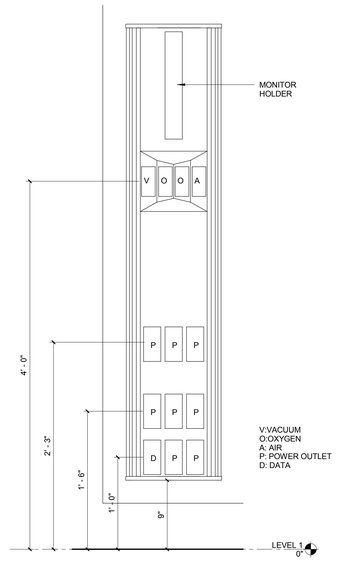
12 FLOOR EXPANSION JOINT @ LEVEL 2
3" = 1'-0"



8 TRANSITION - TILE/RESILIENT
6" = 1'-0"



5 MEDGAS/POWER OUTLETS
1 1/2" = 1'-0"



BASIS OF DESIGN: MODULAR PROFILE HEADWALL,
SEMI-RECESSED UNIT
(102513 PATIENT BED SERVICE WALLS)

1 PATIENT HEADWALL
1 1/2" = 1'-0"

GENERAL NOTES

KEY NOTES

LEGEND

ISSUE FOR BID

Revisions	Date
9	
8	
7	
6	
5	
4	
3	
2	
1	

CONSULTANTS:

Seals and Signatures

ARCHITECT/ENGINEERS:

CANNONDESIGN

201 Mission Street, Suite 2400, San Francisco, California 94105 415.243.4170

Baltimore ■ Boston ■ Buffalo ■ Calgary ■ Chicago
Houston ■ Los Angeles ■ Mumbai ■ New York ■ Phoenix
St. Louis ■ San Francisco ■ Shanghai ■ Toronto
Vancouver ■ Victoria ■ Washington DC

Drawing Title
INTERIOR DETAILS

Approved: Project Director
Approver

Project Title
VA SIMULATION CENTER

Location
Veterans Affairs Palo Alto Heath Care System
3801 Miranda Ave,Palo Alto, CA 94304

Date
JUNE 14, 2013

Checked
CW

Drawn
WK

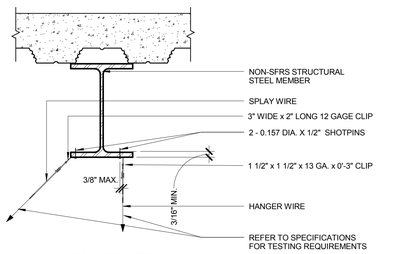
VA Project Number:
640-385

Building Number:
105

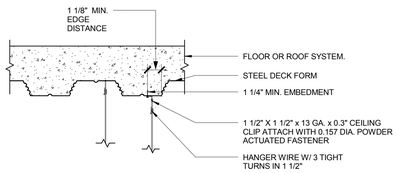
Drawing No.
A0801

VA PAHCS
Veterans Affairs Palo Alto Health Care System

Department of Veterans Affairs

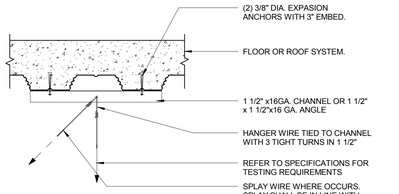


HANGER WIRE - OPTION 1



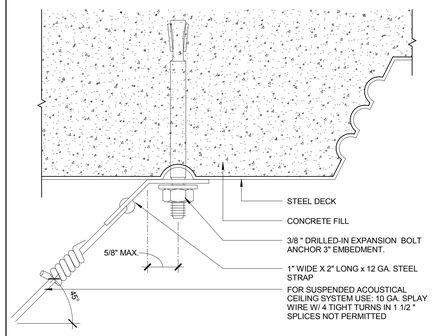
HANGER WIRE - OPTION 2

NOTE: THIS DETAIL NOT TO BE USED FOR ITEMS OVER 100# OR SPLAY BRACING WIRES



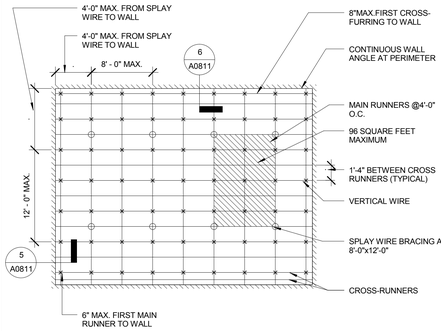
HANGER WIRE - OPTION 3

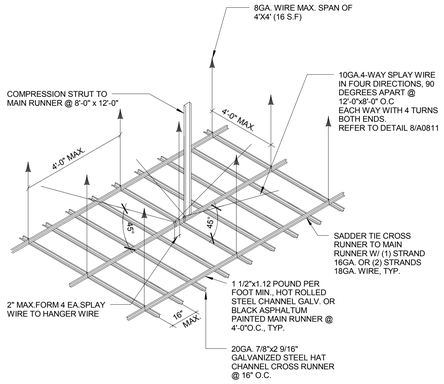
7 HANGER SPLAY WIRE AT CONC. FILLED MTL DECK
1 1/2" = 1'-0"



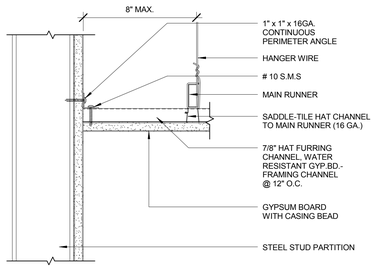
NOTE: FOR GYPSUM BOARD CEILING HANGER WIRE SIZE: 8 GA. GALV.

8 SPLAY WIRE AT CONC. FILLED MTL DECK
12" = 1'-0"

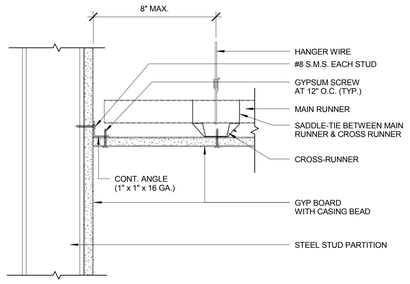




4 SUSPENDED GYPSUM BOARD CEILING DETAIL
1 1/2" = 1'-0"



5 SUSPENDED GYP. BD. CLG. PARALLEL TO MAIN RUNNER
3" = 1'-0"



6 SUSPENDED GYP. BD. CLG. PERP. TO MAIN RUNNER
3" = 1'-0"

1. MATERIALS ARE TO COMPLY WITH APPLICABLE UBC STANDARDS. GYPSUM BOARD IS ONE LAYER OF 5/8" (X).

2. FOR LATERAL LOAD REFER TO CBC SECTION 1630B. THE WEIGHT OF TSUSPENDED CEILING SHALL NOT BE LESS THAN FOUR (4) POUNDS PER SQUARE FOOT FOR DESIGN PURPOSES.

3. GYPSUM BOARD CEILINGS SHOULD NOT SUPPORT MATERIALS OR BUILDING COMPONENTS OTHER THAN GRILLS, LIGHT FIXTURES, SMALL ELECTRICAL CONDUITS, SMALL DUCTS AND THE LIKE. ALL SUCH COMPONENTS SHALL BE SUPPORTED EITHER DIRECTLY FROM MAIN RUNNERS, OR BY SUPPLEMENTAL FRAMING WHICH IS SUPPORTED BY MAIN RUNNERS. NO VERTICAL LOADS OTHER THAN GYPSUM BOARD DEAD LOAD SHALL BE APPLIED TO CROSS-FURRING.

4. VERTICAL SUPPORT SYSTEM

A. THERE ARE MANY POSSIBLE VARIATIONS OF HANGER AND MAIN RUNNER SIZES AND SPACINGS LISTED IN TABLE NO. 25A-A, TITLE 24, CCR, AND ALL OF THE COMBINATIONS ARE ACCEPTABLE. HOWEVER, BOTH HANGERS AND MAIN RUNNERS ARE MOST FREQUENTLY SPACED AT 4'-0" C.C. THIS IS ACCEPTABLE PROVIDED THE FOLLOWING REQUIREMENTS ARE MET:

I. VERTICAL HANGER WIRES ARE NO. 8 GA. AND GALVANIZED: HOWEVER IF CEILING IS NON-ACCESSIBLE, A NO. 12 GA. WIRE MAY BE USED.

II. MAIN RUNNERS ARE 1 1/2" CHANNELS, 1.12 POUND PER FOOT MINIMUM HOT ROLLED.

III. CROSS-FURRING MAY BE 7/8" , 25 GA. GALVANIZED HAT SECTIONS AT 16" MAXIMUM C.C.

B. THE FOLLOWING REQUIREMENTS APPLY TO ALL WIRE HANGER / RUNNER COMBINATIONS:

I. HANGERS SHOULD BE SADDLE-TIED AROUND MAIN RUNNERS TO DEVELOP THE FULL STRENGTH OF THE HANGERS.

II. CROSS-FURRING SHALL BE SADDLE-TIED TO THE MAIN RUNNERS WITH ONE STRAND OF NO. 16 OR TWO STRANDS OF NO. 18 GA. TIE WIRE.

III. MAIN RUNNERS SHOULD BE SPLICED BY LAPPING AND INTERLOCKING FLANGES 1/2" MINIMUM AND TYING NEAR EACH END WITH DOUBLE LOOPS OF NO. 16 GA WIRE.

IV. CROSS-FURRING SHOULD BE SPLICED BY LAPPING AND INTERLOCKING THE PIECES 8" MINIMUM AND TYING NEAR EACH END WITH DOUBLE LOOPS OF NO. 16 GA. WIRE.

C. FASTEN HANGER WIRES WITH NOT LESS THAN THREE (3) TIGHT TURNS. FASTEN BRACING WIRES WITH FOUR (4) TIGHT TURNS. MAKE ALL TIGHT TURNS WITHIN A DISTANCE OF 1-1/2". HANGER OR BRACING WIRE ANCHORS TO THE STRUCTURE SHALL BE INSTALLED IN SUCH A MANNER THAT THE DIRECTION OF THE WIRE ALIGNS AS CLOSELY AS POSSIBLE WITH THE DIRECTION OF THE FORCES ACTING ON THE WIRE.

NOTE: WIRE TURNS MADE BY MACHINE WHERE BOTH STRANDS HAVE BEEN DEFORMED OR BENT IN WRAPPING CAN WAIVE THE 1-1/2" REQUIREMENTS, BUT THE NUMBER OF TURNS SHOULD BE MAINTAINED, AND BE AS TIGHT AS POSSIBLE.

D. SEPARATE ALL CEILING HANGING AND BRACING WIRES AT LEAST SIX INCHES (6") FROM ALL UNBRACED DUCTS, PIPES, CONDUIT, ETC. IT IS ACCEPTABLE TO ATTACH LIGHTWEIGHT ITEMS, SUCH AS SINGLE ELECTRICAL CONDUIT NOT EXCEEDING 3/4" NOMINAL DIAMETER TO HANGER WIRES USING CONNECTORS ACCEPTABLE TO OSHPD.

E. WHEN DRILLED-IN CONCRETE ANCHORS OR SHOT-IN ANCHORS ARE USED IN REINFORCED CONCRETE FOR HANGER WIRES, 1 OUT OF 10 MUST BE FIELD TESTED FOR 200 LBS. IN TENSION WHEN DRILLED-IN CONCRETE ANCHORS ARE USED FOR BRACING WIRES, 1 OUT OF 2 MUST BE FIELD TESTED FOR 400 LBS. IN TENSION, SHOT-IN ANCHORS IN CONCRETE ARE NOT PERMITTED FOR BRACING WIRES. IF ANY SHOT-IN OR DRILLED-IN ANCHOR FAILS, SEE SECTION 1925B.3.5, TITLE 24, CCR.

F. PROVIDE TRAPEZE OR OTHER SUPPLEMENTARY SUPPORT MEMBERS AT OBSTRUCTIONS TO TYPICAL HANGER SPACING. PROVIDE ADDITIONAL HANGERS, STRUTS OR BRACES AS REQUIRED AT ALL CEILING BREAKS, SOFFITS OR DISCONTINUOUS AREA. HANGER WIRES THAT ARE MORE THAN 1 IN 6 OUT OF PLUMB ARE TO HAVE COUNTER SLOPING WIRES.

5. LIGHT FIXTURE SUPPORT:

A. ALL RECESSED OR DROP-IN LIGHT FIXTURES, AS WELL AS CEILING MOUNTED MECHANICAL AIR TERMINALS AND SERVICES SHALL BE SUPPORTED DIRECTLY BY OR SUPPLEMENTED FRAMING WHICH IS SUPPORTED MAIN RUNNERS AND POSITIVELY ATTACHED WITH SCREWS OR OTHER APPROVED CONNECTORS.

B. SURFACE-MOUNTED FIXTURES SHALL BE ATTACHED TO A MAIN RUNNER WITH A POSITIVE CLAMPING DEVICE MADE OF MATERIAL WITH A MINIMUM OF 14 GA. ROTATIONAL SPRING CLAMPS DO NOT COMPLY.

6. LATERAL SYSTEM:

A. SEISMIC BRACE TO DECK ABOVE AS FOR ACOUSTICAL TILE SUSPENSION SYSTEM. USE #12 DIAGONAL WIRES SPACED ON A 8' x 12' GRID AND WITHIN 6' - 0" OF WALLS. THE SLOPED OF THESE WIRES SHALL NOT EXCEED 45 DEGREES FROM THE PLANE OF THE CEILING AND SHALL BE TAUT. SPLICES IN BRACING ARE NOT TO BE PERMITTED WITHOUT SPECIAL OSHPD APPROVAL SEISMIC BRACE TO BE LOCATED AT INTERSECTION OF MAIN RUNNER AND CROSS-FURRING MEMBER. PROVIDE CONNECTION BETWEEN DIAGONAL WIRES AND MAIN RUNNER SO AS TO PREVENT SLIPPING FOR A 200 POUNDS APPROXIMATE SEISMIC LOAD.

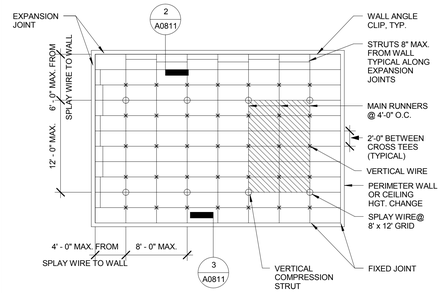
SUSPENDED CEILING SYSTEMS WITH AN AREA OF 96 SQUARE FEET OR LESS, SURROUNDED BY WALLS WHICH CONNECT DIRECTLY TO THE STRUCTURE ABOVE, DO NOT REQUIRE BRACING ASSEMBLIES WHEN ATTACHED TO AT LEAST TOWN ADJACENT WALLS.

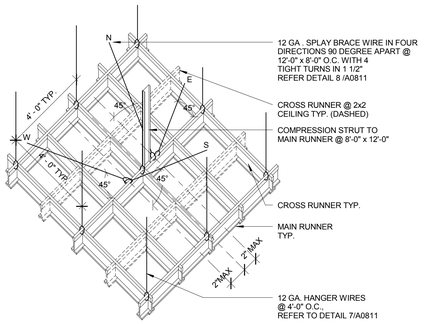
B. ALTERNATE SYSTEM-DESIGN AS DIAPHRAGM SIMILAR TO PLYWOOD DIAPHRAGM CONCEPT SUBJECT TO ACCEPTANCE BY OSHPD.

I. DIAPHRAGM RATIOS:
HORIZONTAL 2 : 1
VERTICAL 1 : 1

II. A MAXIMUM DIAPHRAGM SHEAR EQUAL TO 50 POUNDS PER FOOT IS ALLOWED WITH 1" OR 1-1/4" HI-LO TYPE S OR S-12 BUGLE HEAD SCREWS AT 12" O.C. AND 3/8" SCREW EDGE DISTANCE AT ALL GYPSUM BOARD EDGES AND INTERMEDIATE SUPPORTS. A WALL CONSTRUCTED SIMILARLY CAN RESIST THE SAME SHEAR FORCE PROVIDED THE GYPSUM BOARD IS ON THE SAME SIDE OF THE STUDS AS THE CEILING IS AND A POSITIVE CONNECTION BETWEEN THE CEILING AND THE WALL IS DETAILED. THE GYPSUM BOARD DIAPHRAGMS ARE TO RESIST LATERAL LOADS DUE TO THEIR OWN WEIGHT AND / OR THE CEILING DIAPHRAGM(S) ONLY.

III. DETAILS ARE REQUIRED PROVIDING FOR LATERAL LOAD TRANSFER FROM THE GYPSUM BOARD TO SHEAR WALLS OR OTHER LATERAL LOAD RESISTING GYPSUM BOARD TO SHEAR WALLS OR OTHER LATERAL LOAD RESISTING ELEMENTS ON ALL FOUR SIDES OF THE DIAPHRAGM.





1 SUSPENDED ACOUSTICAL CEILING DETAIL
1 1/2" = 1'-0"

1. THE FOLLOWING NOTES WILL BE ACCEPTABLE FOR CEILING SYSTEMS WHOSE TOTAL WEIGHT, INCLUDING AIR CONDITIONING GRILLES AND LIGHT FIXTURES DOES NOT EXCEED FOUR (4) PSF. HEAVIER SYSTEMS AND THOSE SUPPORTING LATERAL LOADS FROM PARTITIONS WILL REQUIRE SPECIAL DESIGN DETAILS.

A. 12 GA. (MIN.) HANGER WIRES MAY BE USED FOR UP TO AND INCLUDING 4'-0" x 4'-0" GRID SPACING ALONG MAIN RUNNERS. SPLICES ARE NOT PERMITTED IN ANY HANGER WIRES.

B. PERIMETER HANGERS: THE TERMINAL ENDS OF EACH CROSS RUNNER AND MAIN RUNNER SHALL BE SUPPORTED INDEPENDENTLY A MAXIMUM OF 8 INCHES FROM EACH WALL OR CEILING DISCONTINUITY WITH NO.12 GA WIRE OR 1/4 LENGTH OF TEE WHICHEVER IS LESS.

C. PROVIDE TRAPEZE OR OTHER SUPPLEMENTARY SUPPORT MEMBERS AT OBSTRUCTIONS TO MAINTAIN HANGER SPACING. PROVIDE ADDITIONAL HANGERS, STRUTS, OR BRACES AS REQUIRED AT ALL CEILING BREAKS, SOFFITS OR DISCONTINUOUS AREAS. HANGER WIRES THAT ARE MORE THAN 1 IN 6 OUT OF PLUMB ARE TO HAVE COUNTER SLOPING WIRES.

D. CEILING GRID MEMBERS MAY BE ATTACHED TO NOT MORE THAN 2 ADJACENT WALLS. CEILING GRID MEMBERS SHOULD BE AT LEAST 3/4" FREE OF OTHER WALLS. IF WALLS RUN DIAGONALLY TO CEILING GRID SYSTEM RUNNERS, ONE END OF MAIN AND CROSS RUNNERS SHOULD BE FREE WITH A MINIMUM OF 3/4" CLEAR AT WALL AND OTHER END SHALL BE ATTACHED TO WALL.

E. AT THE PERIMETER OF THE CEILING AREA WHERE MAIN OR CROSS RUNNERS ARE NOT CONNECTED TO THE ADJACENT WALL, PROVIDE APPROVED SEISMIC CLIP TO ATTACH THE RUNNERS TO THE WALL ANGLE TO PREVENT LATERAL SPREADING AND ALLOW FOR 3/4" MOVEMENT FROM WALL.

F. A SET OF 4 BRACING WIRES IS REQUIRED FOR EACH 96 SQUARE FEET. PROVIDE BRACING WIRES AT LOCATIONS NOT MORE THAN 6'-0" FROM EACH PERIMETER WALL ALONG MAIN RUNNERS AND 4'-0" FROM EACH PERIMETER WALL ALONG CROSS RUNNERS. PROVIDE BRACING WIRES AT THE EDGE OF VERTICAL CEILING OFFSETS. A MINIMUM OF ONE SET OF BRACING WIRES IS REQUIRED BETWEEN ANY TWO ADJACENT EXPANSION CUT-OUTS ON RUNNERS BEING BRACED.

THE SLOPE OF THESE WIRES SHALL NOT EXCEED 45 DEGREES FROM A HORIZONTAL PLANE AND SHALL BE TAUT WITHOUT CAUSING THE CEILING TO LIFT.

COMPRESSION STRUTS ATTACHED TO THE CEILING AND THE STRUCTURE SHALL BE PROVIDED AT BRACING POINTS. DO NOT SPLICE BRACING WIRES.

PARTITIONS: NON-BEARING PARTITIONS THAT EXTEND TO AND TERMINATE AT A SUSPENDED CEILING, AND ARE SUPPORTED LATERALLY BY AN APPROVED BRACING SYSTEM, MAY BE CONSIDERED AS NOT ADDING TO THE LATERAL LOAD REQUIRED TO BE RESISTED BY THE CEILING SYSTEM.

NOTE: ROOMS WITH A CEILING AREA LESS THAN 96 S.F. AND SURROUNDED BY FULL HEIGHT WALLS WHICH CONNECT DIRECTLY TO THE STRUCTURE ABOVE DO NOT REQUIRE BRACING WIRES WITH COMPRESSION STRUT WHEN ATTACHED TO TWO ADJACENT WALLS.

G. FASTEN HANGER WIRES WITH NOT LESS THAN 3 TIGHT TURNS. FASTEN BRACING WIRES WITH 4 TIGHT TURNS. MAKE ALL TIGHT TURNS WITHIN DISTANCE OF 1-1/2". HANGER OR BRACING WIRE ANCHORS TO THE STRUCTURE SHOULD BE INSTALLED IN SUCH A MANNER THAT THE DIRECTION OF THE WIRE ALIGNS AS CLOSELY AS POSSIBLE WITH THE DIRECTION OF THE FORCES ACTING ON THE WIRE.

NOTE: WIRE TURNS MADE BY MACHINE WHERE BOTH STRANDS HAVE BEEN DEFORMED OR BENT IN WRAPPING CAN WAIVE THE 1-1/2" REQUIREMENT, BUT THE NUMBER OF TURNS SHALL BE MAINTAINED AS BEING AS TIGHT AS POSSIBLE.

H. SEPARATE ALL CEILING HANGING AND BRACING WIRES AT LEAST 6" FROM ALL UNBRACED DUCTS, PIPES, CONDUITS, ETC.

I. WHEN DRILLED-IN CONCRETE ANCHORS OR SHOT-IN ANCHORS ARE USED IN REINFORCED CONCRETE FOR HANGER WIRES, 1 OUT OF 10 MUST BE FIELD TESTED FOR 200 POUNDS OF TENSION. WHEN DRILLED-IN CONCRETE ANCHORS ARE USED FOR BRACING WIRES, 1 OUT OF 2 MUST BE FIELD - TESTED FOR 440 POUNDS IN TENSION.

J. ATTACH ALL LIGHT FIXTURES AND CEILING-MOUNTED AIR TERMINALS OR SERVICES TO THE CEILING GRID'S MAIN RUNNERS TO RESIST A HORIZONTAL FORCE EQUAL TO THE WEIGHT OF THE FIXTURES. SCREWS OR APPROVED FASTENERS ARE REQUIRED.

K. FLUSH OR RECESSED LIGHT FIXTURES AND AIR TERMINALS OR SERVICES WEIGHING LESS THAN 56 POUNDS, MAY BE SUPPORTED DIRECTLY ON THE RUNNERS OF A HEAVY DUTY GRID SYSTEM. IN ADDITION, THEY MUST HAVE A MINIMUM OF TWO 12 GA. SLACK SAFETY WIRES ATTACHED TO THE FIXTURE AT DIAGONAL CORNERS AND ANCHORED TO THE STRUCTURE ABOVE. ALL 4 FT X 4 FT. LIGHT FIXTURES SHALL HAVE SLACK SAFETY WIRES AT EACH CORNER.

L. THE LOAD-CARRYING CAPACITY FOR CEILING SUSPENSION SYSTEM SHALL BE THE MAXIMUM UNIFORMLY DISTRIBUTED LOADS IN POUNDS PER LINEAR FOOT (kN/m) THAT A SIMPLY SUPPORTED MAIN RUNNER SECTION HAVING A SPAN LENGTH OF 4'-0" (1219mm) IS CAPABLE OF SUPPORTING WITHOUT A MIDSPAN DEFLECTION EXCEEDING 0.133 INCH (3mm) OR 1/360 OF THE 4'-0" (1219mm) SPAN LENGTH.

M. HEAVY DUTY SYSTEM SHALL BE USED FOR CEILING SUSPENSION SYSTEM.

N. CROSS RUNNERS SHALL BE CAPABLE OF CARRYING THE DESIGN LOAD AS DICTATED BY JOB CONDITIONS WITHOUT EXCEEDING THE MAXIMUM ALLOWABLE DEFLECTION EQUAL TO 1/360 OF ITS SPAN. A CROSS RUNNER THAT SUPPORTS ANOTHER CROSS RUNNER IS A MAIN RUNNER FOR THE PURPOSE OF STRUCTURAL CLASSIFICATION AND SHALL BE CAPABLE OF SUPPORTING A UNIFORMLY DISTRIBUTED LOAD AT LEAST EQUAL TO THE INTERMEDIATE CLASSIFICATION.

O. SPLICES OR INTERSECTIONS OF CROSS RUNNERS SHALL BE ATTACHED THROUGH CONNECTORS SUCH AS POP RIVETS, SCREWS, PINS, PLATES WITH END TABS OR OTHER APPROVED CONNECTORS. SUCH THROUGH CONNECTORS SHALL BE CAPABLE OF TRANSFERRING A MEANS OF ULTIMATE TENSION / COMPRESSION FORCE OF 180 POUNDS.

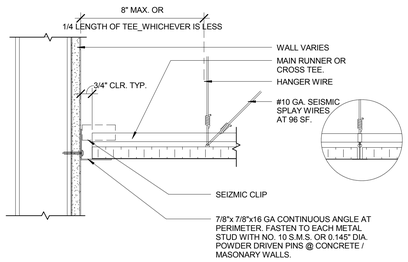
2. PROVIDE SPECIAL INSPECTION PER ASCE 7-05 SECTION 13.5.6.6.6. (h).

3. SHEET METAL SCREWS (SMS) SHALL BE HILTI KWIK-PRO SELF DRILLING SCREWS PER ICC ESR-2196.

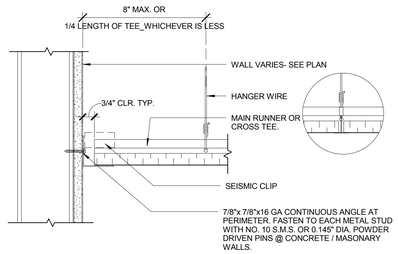
4. POWDER ACTUATED / DRIVEN FASTERS SHALL BE HILTI X-U SHOTPINS PER ICC ESR-2269.

5. EXPANSION ANCHORS SHALL BE HILTI KB-TZ ANCHORS PER ICC ESR - 1917

6. CEILINGS SHALL CONFORM TO ASTM C635, ASTM C635 AND CISCA FOR SEISMIC ZON3-4.



2 ACT EDGE CONDITION AT FREE END
3" = 1'-0"



NOTE: PROVIDE ARMSTONG BERC - 2 CLIP (ESR-1308) IN LIEU OF ALUM. POP RIVET AS ALTERNATE. INSTALL PER MANUFACTURER'S INSTRUCTIONS

3 ACT EDGE CONDITION AT FIXED END
3" = 1'-0"

GENERAL NOTES

KEY NOTES

LEGEND

PROJECT NORTH
TRUE NORTH

ISSUE FOR BID

Revisions	Date
9	
8	
7	
6	
5	
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2	
1	

CONSULTANTS:

Seals and Signatures

ARCHITECT/ENGINEERS:

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Houston ■ Los Angeles ■ Mumbai ■ New York ■ Phoenix
St. Louis ■ San Francisco ■ Shanghai ■ Toronto
Vancouver ■ Victoria ■ Washington DC

Drawing Title: CEILING DETAILS

Approved: Project Director
Approver

Project Title: VA SIMULATION CENTER

Location: Veterans Affairs Palo Alto Heath Care System, 3801 Miranda Ave,Palo Alto, CA 94304

Date: JUNE 14, 2013 | Checked: CW | Drawn: WK

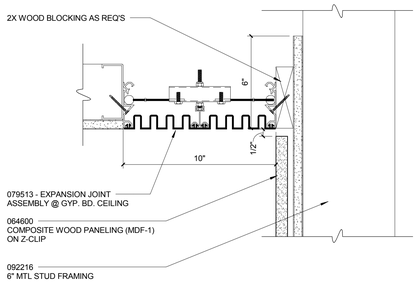
VA Project Number: 640-385

Building Number: 105

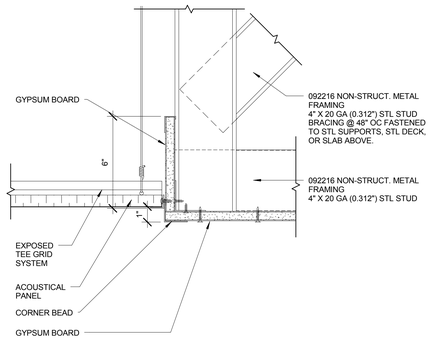
Drawing No. A0811

VA PAHCS Veterans Affairs Palo Alto Health Care System

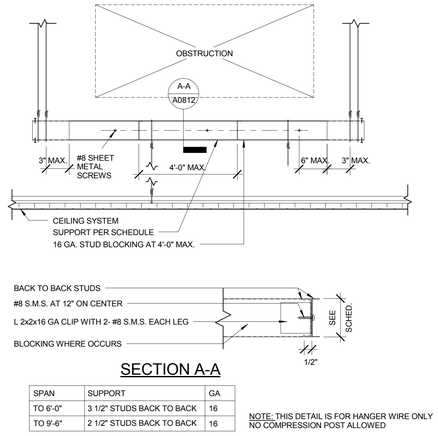
Department of Veterans Affairs



12 CEILING EXPANSION JOINT
3" = 1'-0"



9 SUSPENDED ACOUSTICAL CEILING AT FRAMED SOFFIT
3" = 1'-0"

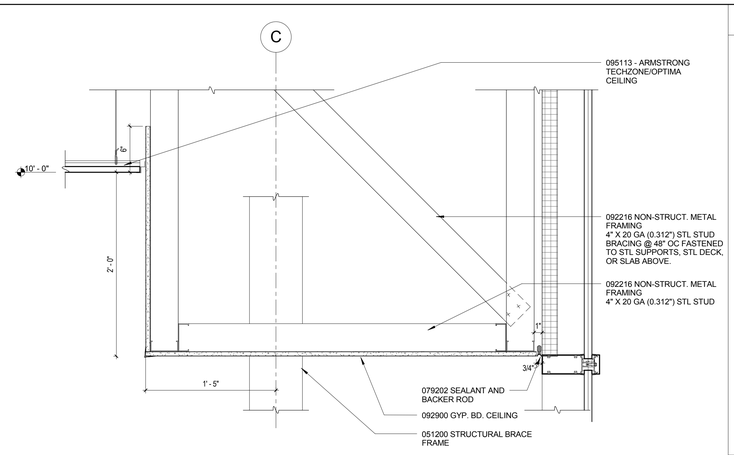


SECTION A-A

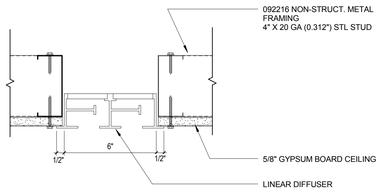
SPAN	SUPPORT	GA
TO 6'-0"	3 1/2" STUDS BACK TO BACK	16
TO 9'-6"	2 1/2" STUDS BACK TO BACK	16

NOTE: THIS DETAIL IS FOR HANGER WIRE ONLY NO COMPRESSION POST ALLOWED

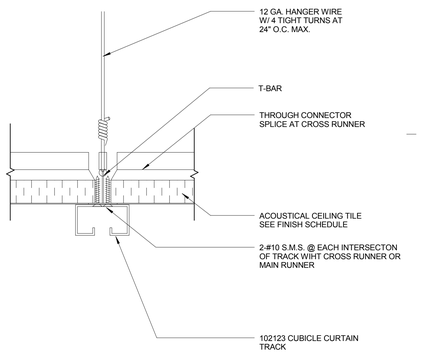
6 ACOUSTICAL CEILING SUPPORT AT OBSTRUCTIONS
1 1/2" = 1'-0"



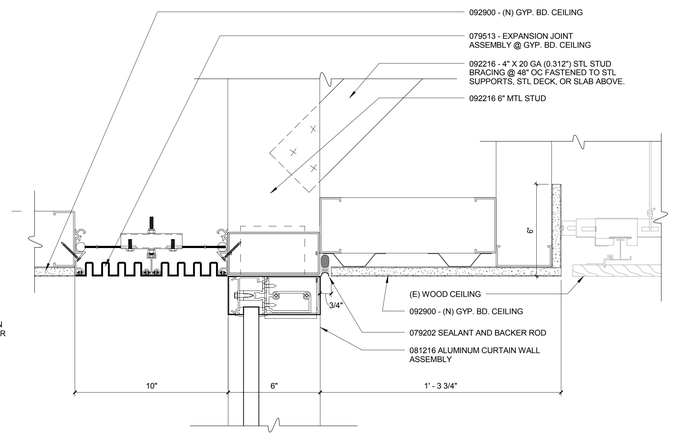
3 CEILING DETAIL - GYP SOFFIT
1 1/2" = 1'-0"



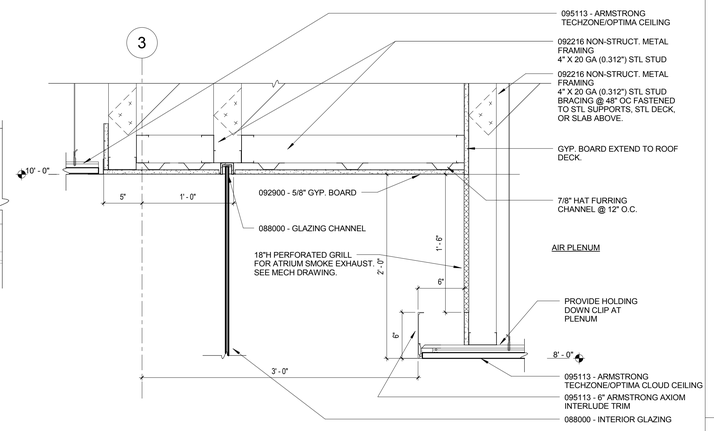
11 LINEAR DIFFUSER AT GYP CEILING
3" = 1'-0"



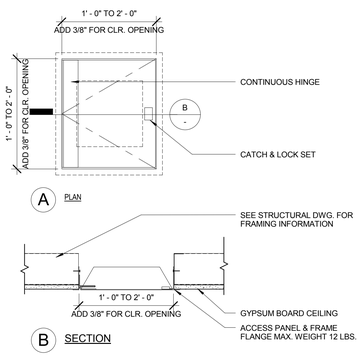
8 CUBICLE CURTAIN TRACK
6" = 1'-0"



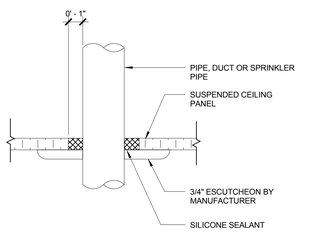
5 CEILING DETAIL - EXP. JT AT GLASS
3" = 1'-0"



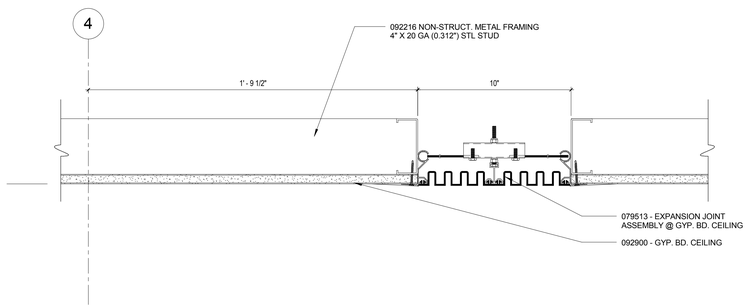
2 CEILING DETAIL - LEVEL 2 ATRIUM CLOUD
1 1/2" = 1'-0"



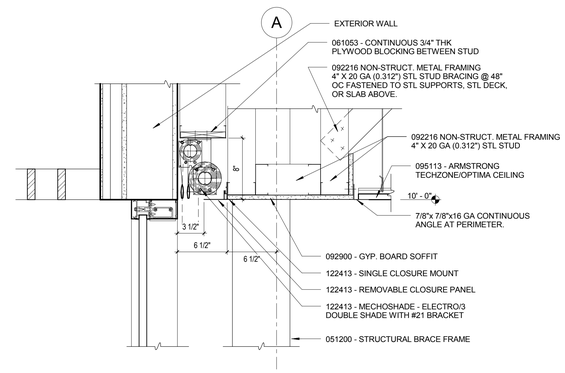
10 CEILING ACCESS PANEL
1 1/2" = 1'-0"



7 PENETRATION THROUGH CEILING TILE
3" = 1'-0"



4 CEILING DETAIL - LEVEL 2 EXP. JT
3" = 1'-0"



1 CEILING DETAIL - WINDOW SHADE
1 1/2" = 1'-0"

GENERAL NOTES

KEY NOTES

LEGEND

PROJECT NORTH
TRUE NORTH

ISSUE FOR BID

Revisions	Date
9	
8	
7	
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5	
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1	

CONSULTANTS:

Seals and Signatures

ARCHITECT/ENGINEERS:

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Vancouver ■ Victoria ■ Washington DC

Drawing Title
CEILING DETAILS

Approved: Project Director
Approver

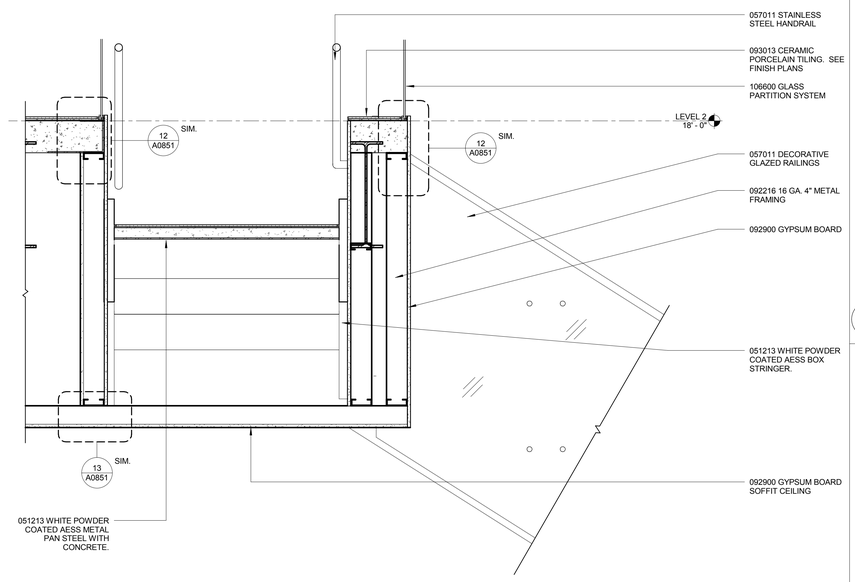
Project Title
VA SIMULATION CENTER

Location Veterans Affairs Palo Alto Heath Care System
3801 Miranda Ave,Palo Alto, CA 94304

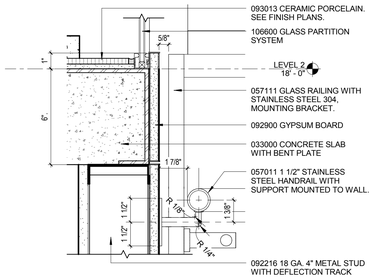
Date JUNE 14, 2013 | Checked CW | Drawn WK

VA Project Number: 640-385
Building Number: 105
Drawing No. A0812

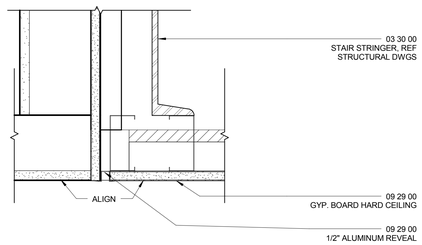
VA PAHCS Veterans Affairs Palo Alto Health Care System
Department of Veterans Affairs



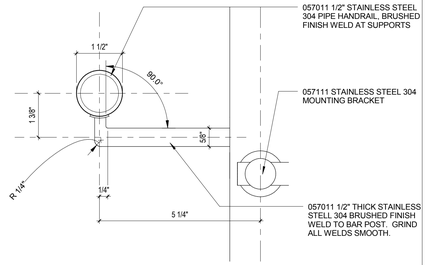
19 STAIR SECTION @ 2ND FL
1" = 1'-0"



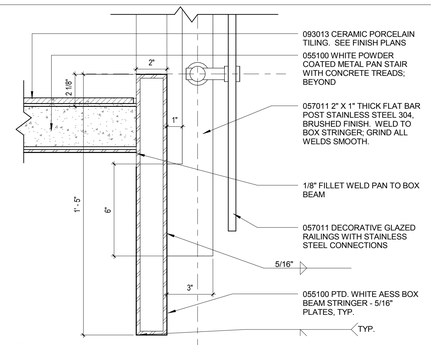
12 DETAIL AT LEVEL 2 HANDRAIL
3" = 1'-0"



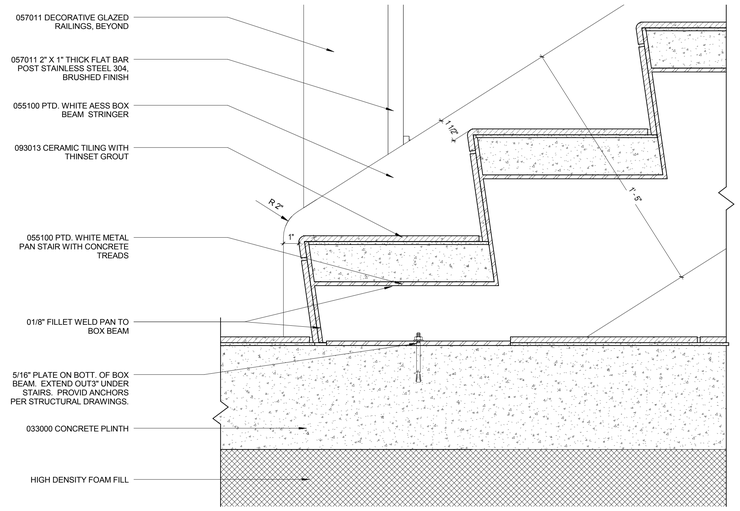
8 STAIR SOFFIT @ LOBBY CEILING
3" = 1'-0"



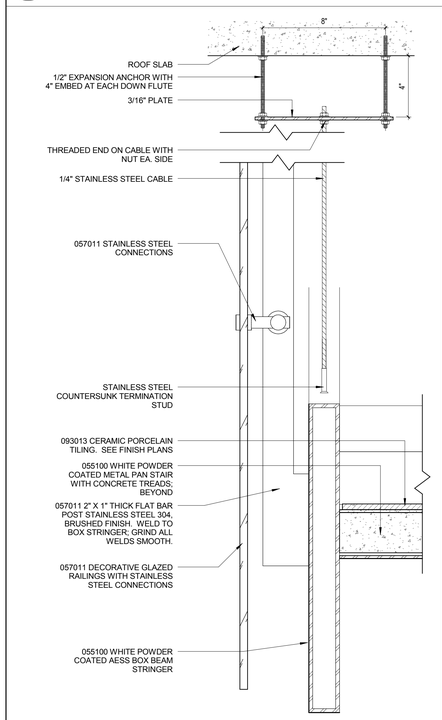
4 DETAIL AT HANDRAIL
6" = 1'-0"



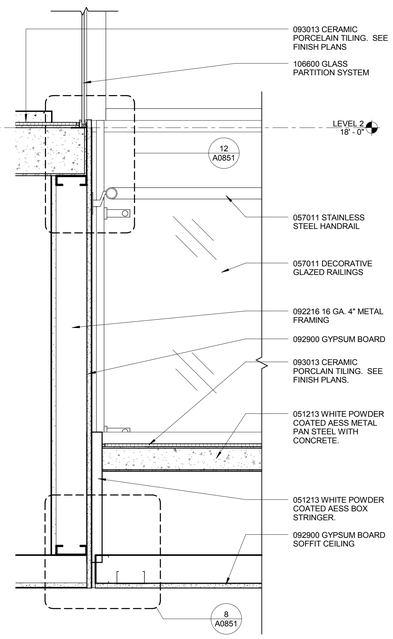
3 SECTION AT STAIR STRINGER
3" = 1'-0"



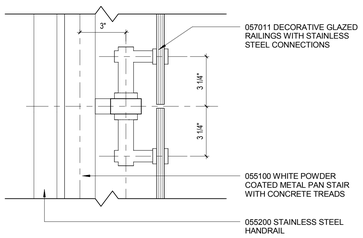
10 SECTION AT BASE OF STAIR STRINGER
3" = 1'-0"



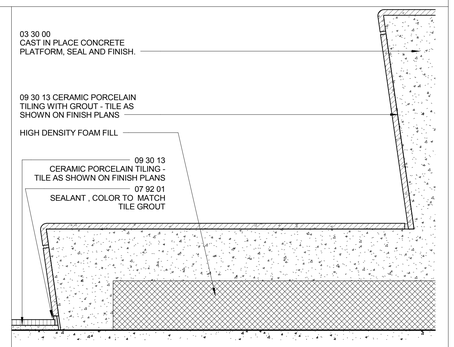
17 DETAIL AT STRINGER - LOBBY SIDE
3" = 1'-0"



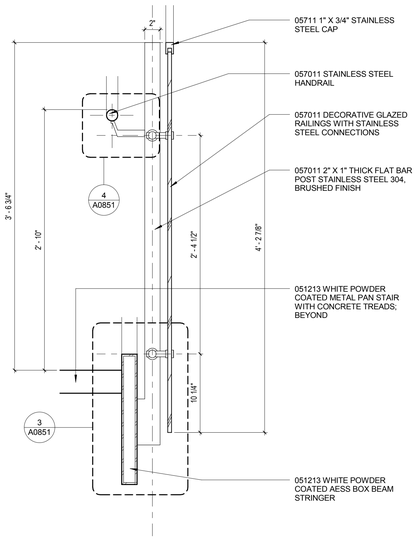
13 SECTION @ LANDING AND SOFFIT
1 1/2" = 1'-0"



9 PLAN AT GUARDRAIL BRACKET
3" = 1'-0"



5 LOBBY SEATING PLATFORM
3" = 1'-0"



1 DETAIL AT STAIR GUARDRAIL
1 1/2" = 1'-0"

GENERAL NOTES

1. THE SCOPE IN SHEET A0851 IS ALTERNATE #1

KEY NOTES

LEGEND

PROJECT NORTH
TRUE NORTH

ISSUE FOR BID

Revisions	Date
9	
8	
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CONSULTANTS:

Seals and Signatures

ARCHITECT/ENGINEERS:

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St. Louis ■ San Francisco ■ Shanghai ■ Toronto
Vancouver ■ Victoria ■ Washington DC

Drawing Title
STAIR & ATRIUM DETAILS

Approved: Project Director
Approver

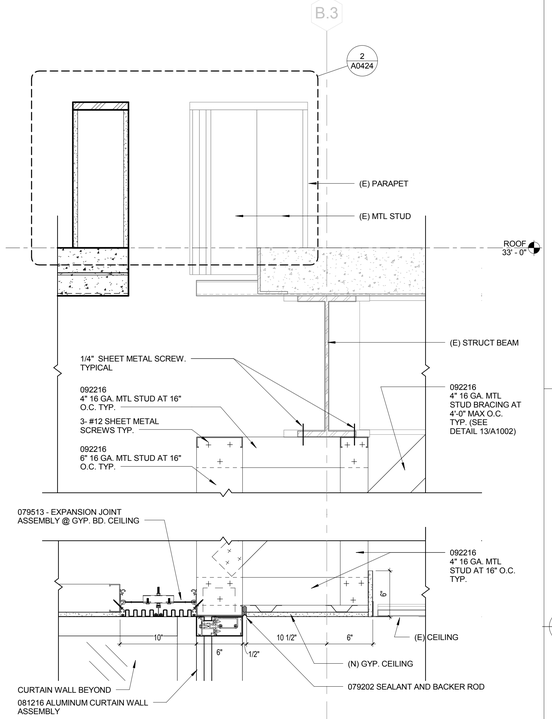
Project Title
VA SIMULATION CENTER

Location
Veterans Affairs Palo Alto Heath Care System
3801 Miranda Ave,Palo Alto, CA 94304

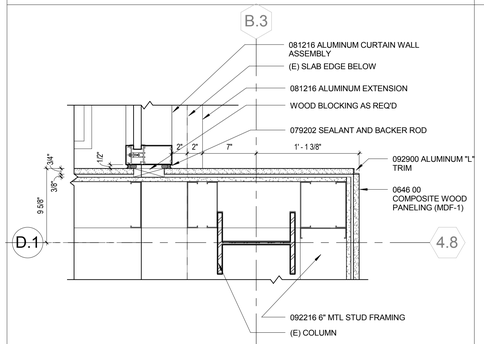
Date: JUNE 14, 2013
Checked: CW
Drawn: BK

VA Project Number: 640-385
Building Number: 105
Drawing No. A0851

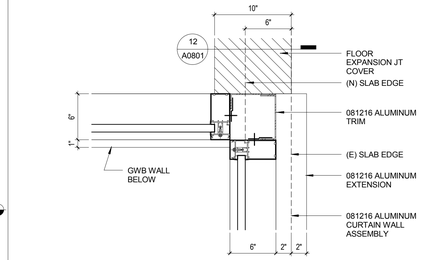
VA PAHCS Veterans Affairs Palo Alto Health Care System
Department of Veterans Affairs



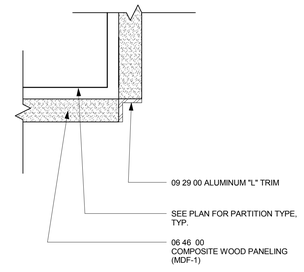
11 INTERIOR GLAZING - HEAD
1 1/2" = 1'-0"



8 INTERIOR GLAZING - JAMB
1 1/2" = 1'-0"

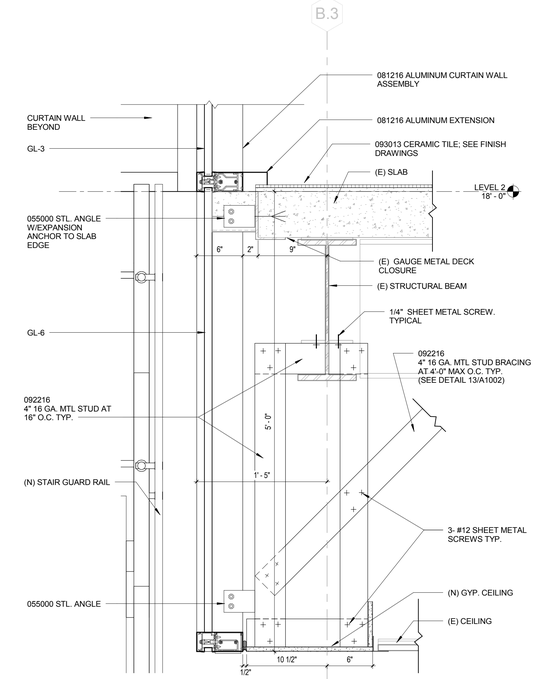


9 EXPANSION JOINT AT CORNER
1 1/2" = 1'-0"

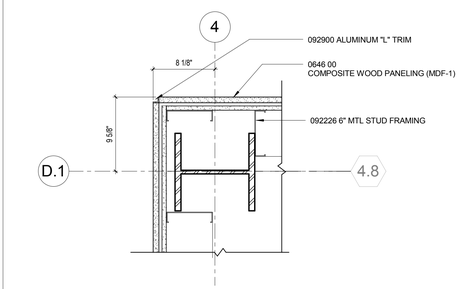


5 COMPOSITE WOOD WALL PANEL - CORNER
6" = 1'-0"

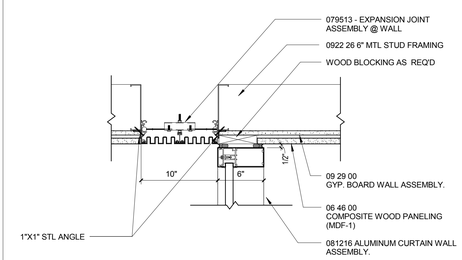
4 COMPOSITE WOOD WALL PANEL - JOINT
6" = 1'-0"



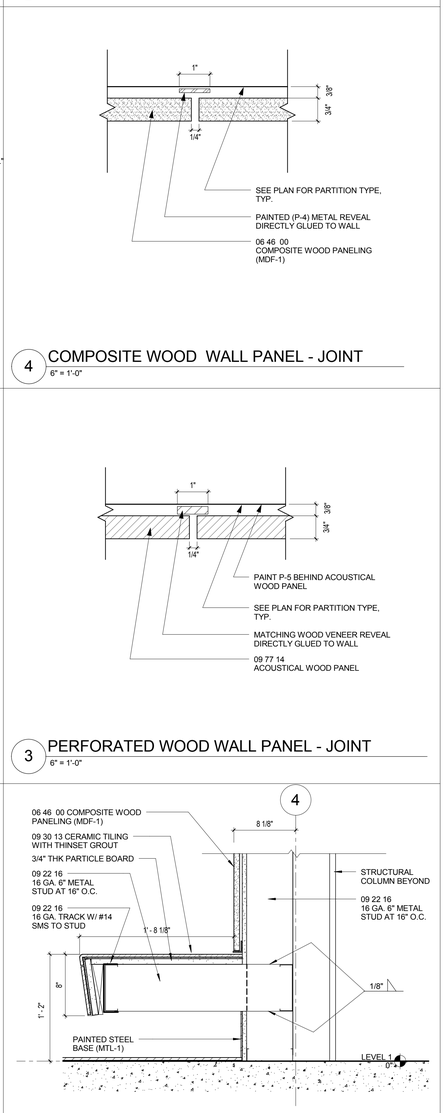
10 INTERIOR GLAZING AT LEVEL 2 FLOOR
1 1/2" = 1'-0"



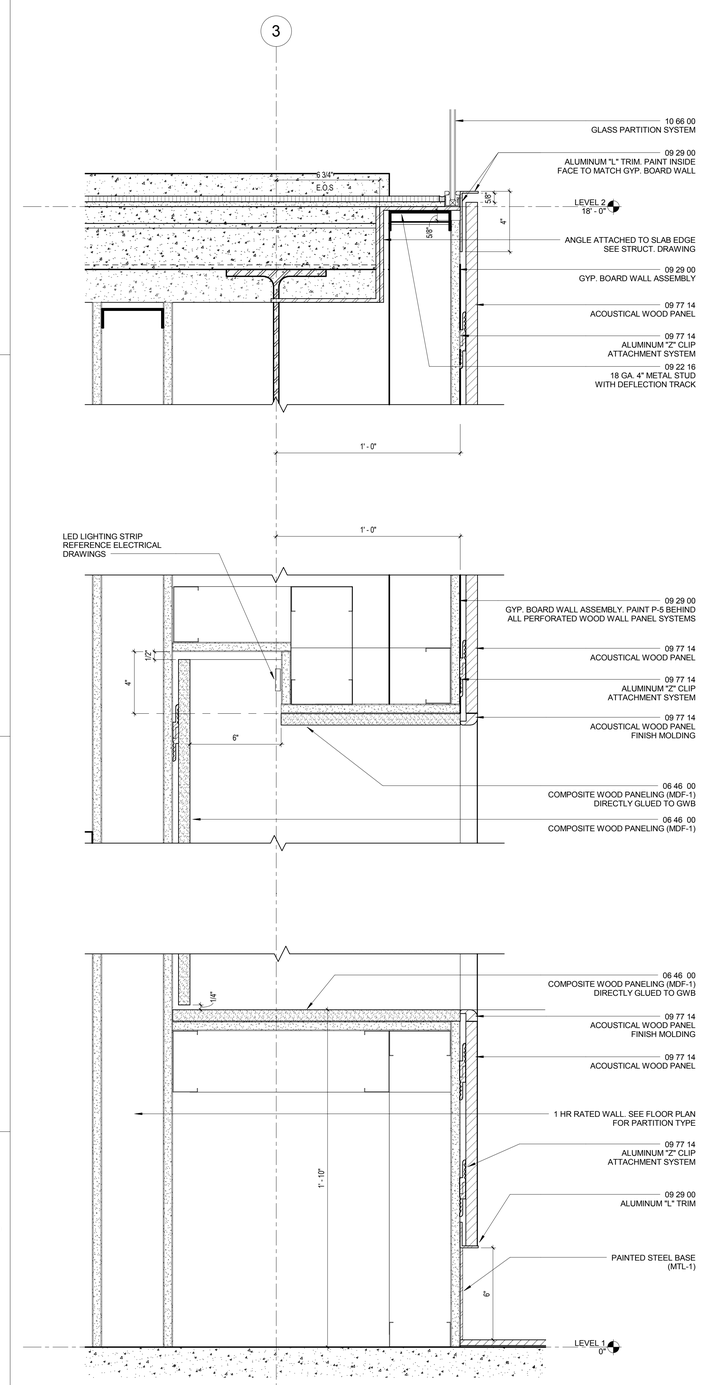
7 COMPOSITE WOOD WALL PANEL - CORNER
1 1/2" = 1'-0"



6 EXPANSION JOINT AT INTERIOR GLAZING - JAMB
1 1/2" = 1'-0"



2 SECTION THROUGH STAIR SHELF
1 1/2" = 1'-0"



1 ART WALL @ LOBBY
3" = 1'-0"

GENERAL NOTES

KEY NOTES

LEGEND

PROJECT NORTH
TRUE NORTH

ISSUE FOR BID

Revisions	Date
9	
8	
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CONSULTANTS:

Seals and Signatures

ARCHITECT/ENGINEERS:

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Drawing Title: LOBBY DETAILS

Approved: Project Director
Approver

Project Title: VA SIMULATION CENTER

Location: Veterans Affairs Palo Alto Heath Care System, 3801 Miranda Ave,Palo Alto, CA 94304

Date: JUNE 14, 2013 | Checked: CW | Drawn: WK

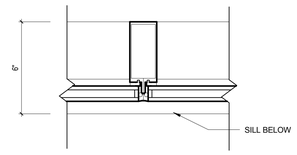
VA Project Number: 640-385

Building Number: 105

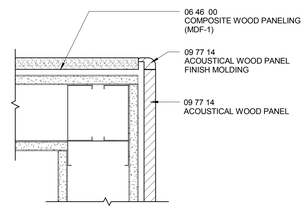
Drawing No. A0852

VA PAHCS Veterans Affairs Palo Alto Health Care System

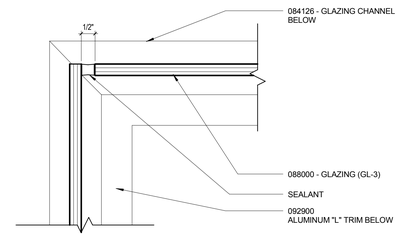
Department of Veterans Affairs



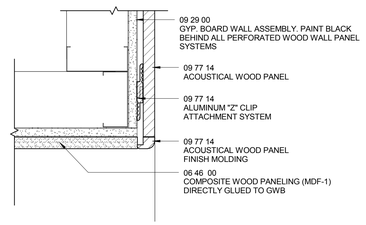
4 INTERMEDIATE VERTICAL MULLION
3" = 1'-0"



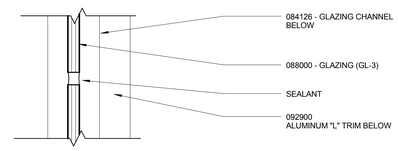
7 ACOUSTICAL WALL PANEL - CORNER
3" = 1'-0"



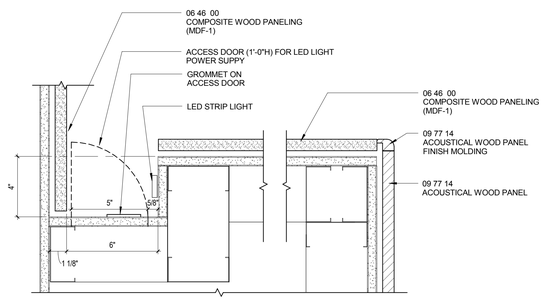
3 ALL GLASS STOREFRONT - CORNER
6" = 1'-0"



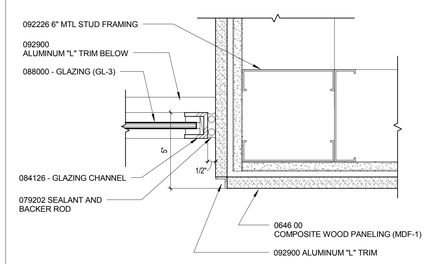
6 COMPOSITE WOOD WALL PANEL - SOFFIT
3" = 1'-0"



2 ALL GLASS STOREFRONT - BUTT JOINT
6" = 1'-0"



5 ACOUSTICAL WALL PANEL - LIGHT COVE
3" = 1'-0"



1 ALL GLASS STOREFRONT - JAMB AT COLUMN
3" = 1'-0"

GENERAL NOTES

KEY NOTES

LEGEND

ISSUE FOR BID

Revisions	Date
9	
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CONSULTANTS:

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St. Louis ■ San Francisco ■ Shanghai ■ Toronto
Vancouver ■ Victoria ■ Washington DC

Drawing Title
LOBBY DETAILS

Approved: Project Director
Approver

Project Title
VA SIMULATION CENTER

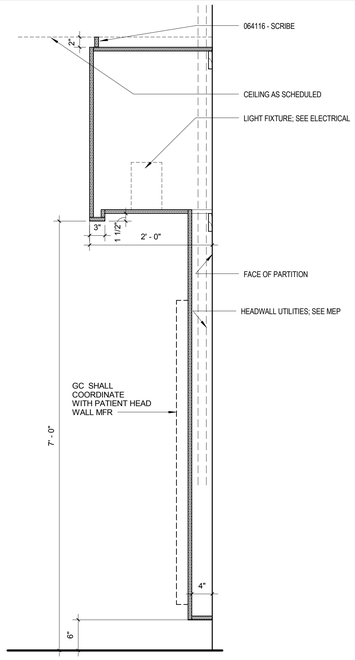
Location
Veterans Affairs Palo Alto Heath Care System
3801 Miranda Ave,Palo Alto, CA 94304

Date: JUNE 14, 2013
Checked: CW
Drawn: WK

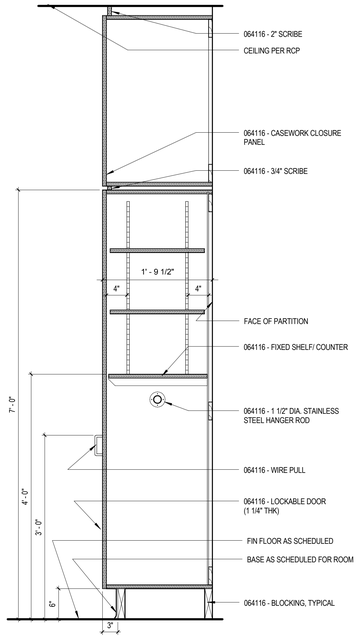
VA Project Number: 640-385
Building Number: 105
Drawing No. A0853

VA PAHCS Veterans Affairs Palo Alto Health Care System

Department of Veterans Affairs

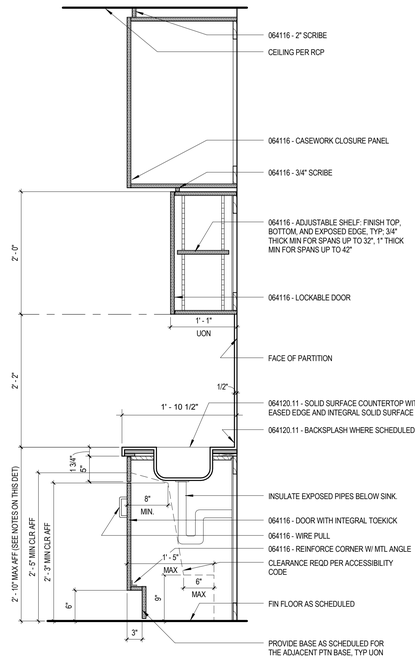


19 CUSTOM CABINET - HEADWALL
1" = 1'-0"

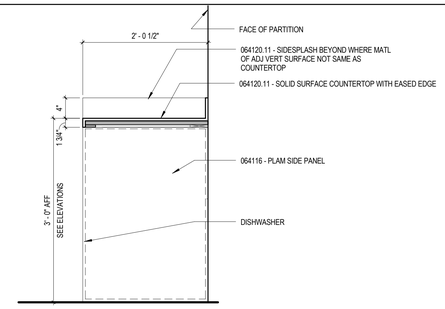


15 CUSTOM CABINET - TALL CABINET WITH SHELF
1" = 1'-0"

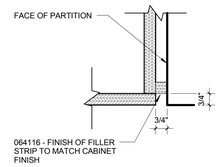
NOTES:
1. VERIFY REQUIRED CLEARANCES WITH THE AUTHORITY HAVING JURISDICTION.
2. WHERE SINK RIM EXTENDS ABOVE THE TOP OF COUNTER, MEASURE 2'-10" HT AFF TO TOP OF SINK RIM.



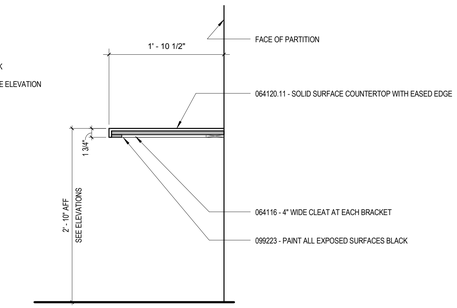
11 CUSTOM CABINET - BASE CABINET WITH SINK
1" = 1'-0"



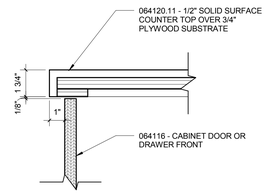
8 CUSTOM CABINET - DISHWASHER
1" = 1'-0"



4 FILLER STRIP DETAIL - SIMILAR AT SOFFIT
3" = 1'-0"

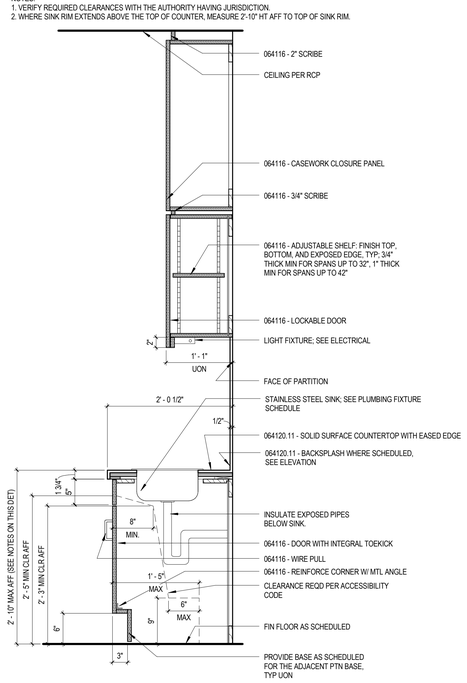


7 CUSTOM CABINET - COUNTERTOP/DESK
1" = 1'-0"

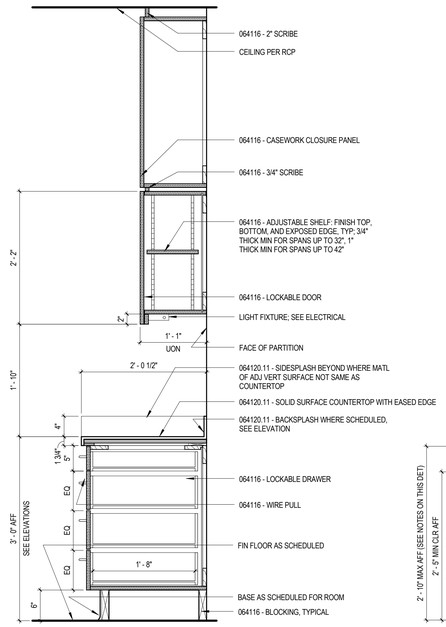


3 COUNTERTOP DETAIL @ BASE CABINET
3" = 1'-0"

NOTES:
1. VERIFY REQUIRED CLEARANCES WITH THE AUTHORITY HAVING JURISDICTION.
2. WHERE SINK RIM EXTENDS ABOVE THE TOP OF COUNTER, MEASURE 2'-10" HT AFF TO TOP OF SINK RIM.

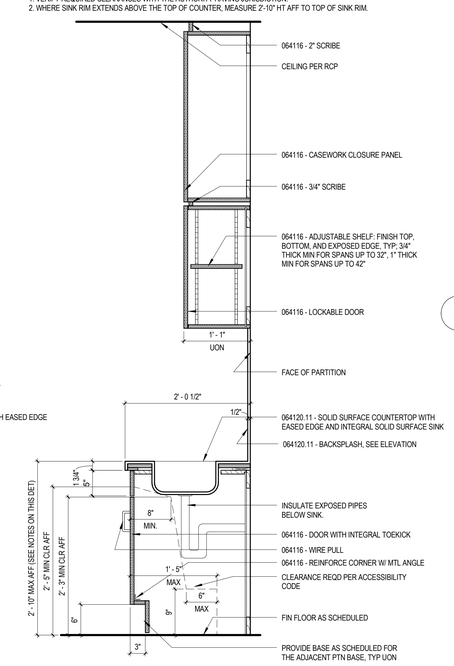


17 CUSTOM CABINET - BASE CABINET WITH SINK
1" = 1'-0"

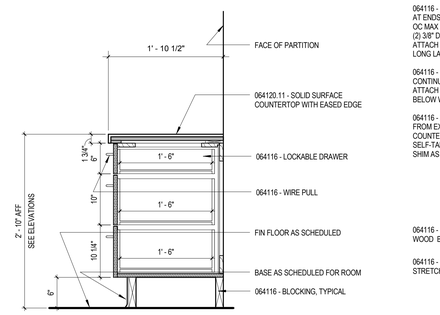


13 CUSTOM CABINET - BASE CABINET WITH DRAWERS
1" = 1'-0"

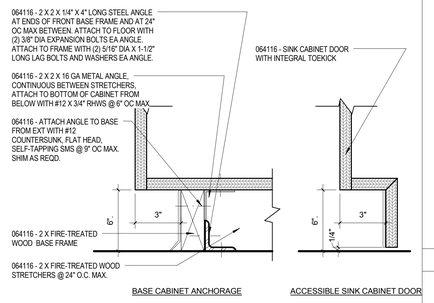
NOTES:
1. VERIFY REQUIRED CLEARANCES WITH THE AUTHORITY HAVING JURISDICTION.
2. WHERE SINK RIM EXTENDS ABOVE THE TOP OF COUNTER, MEASURE 2'-10" HT AFF TO TOP OF SINK RIM.



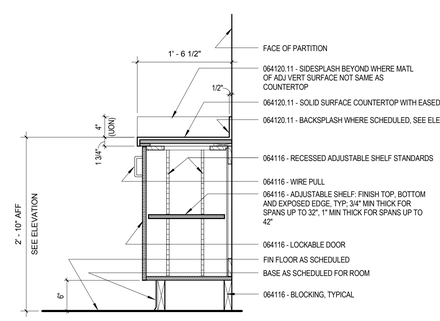
9 CUSTOM CABINET - BASE CABINET WITH SINK
1" = 1'-0"



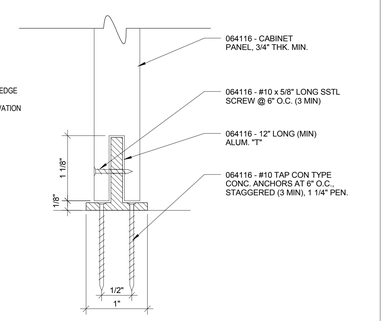
6 CUSTOM CABINET - BASE CABINET WITH DRAWERS
1" = 1'-0"



2 CABINET BASE DETAIL
3" = 1'-0"



5 CUSTOM CABINET - BASE CABINET WITH SHELVES
1" = 1'-0"



1 SIDE PANEL ANCHORAGE
1 : 1

GENERAL NOTES

1. REFER TO 9/A0902 FOR CASEWORK BACKING PLATE & ANCHORAGE REQUIREMENTS

KEY NOTES

LEGEND

PROJECT NORTH
TRUE NORTH

ISSUE FOR BID

Revisions	Date
9	
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CONSULTANTS:

Seals and Signatures

ARCHITECT/ENGINEERS:

CANNONDESIGN
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Drawing Title: MILLWORK & CASEWORK DETAILS

Project Title: VA SIMULATION CENTER

VA Project Number: 640-385

Building Number: 105

Drawing No. A0901

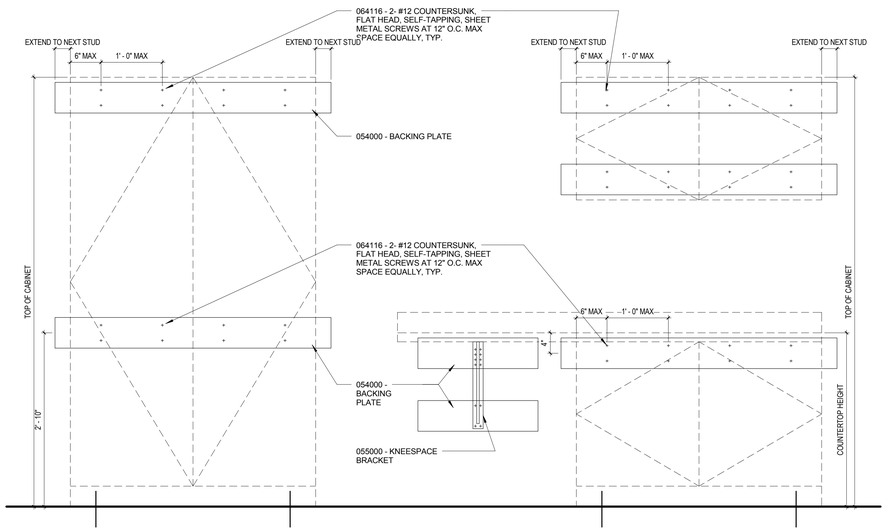
Approved: Project Director
Approver

Location: Veterans Affairs Palo Alto Heath Care System, 3801 Miranda Ave,Palo Alto, CA 94304

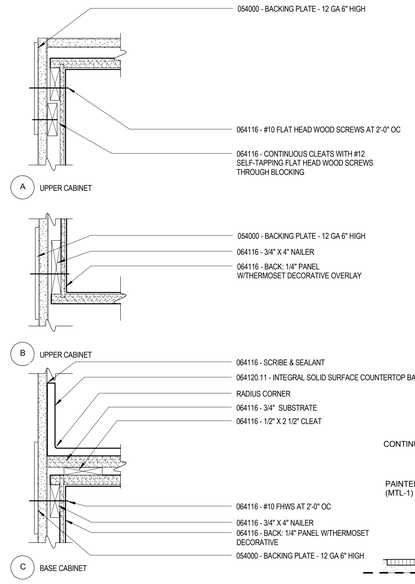
Date: JUNE 14, 2013 | Checked: CW | Drawn: WK

VA PAHCS Veterans Affairs Palo Alto Health Care System

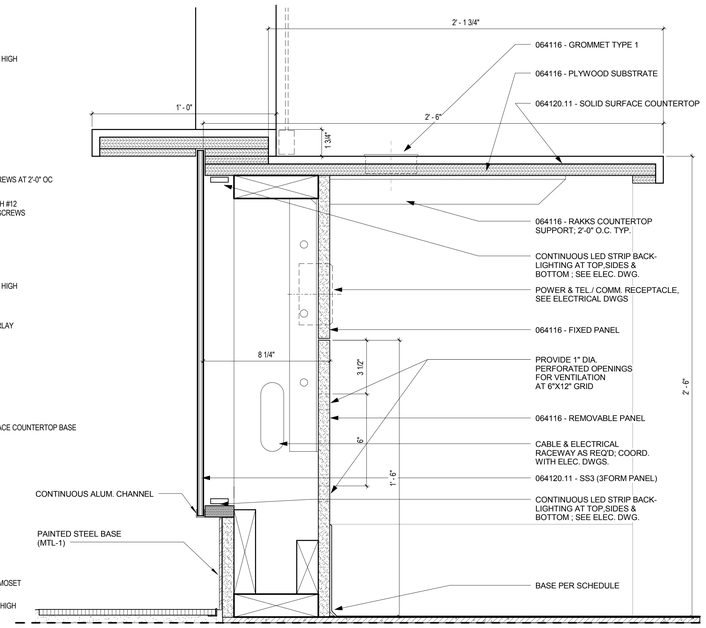
Department of Veterans Affairs



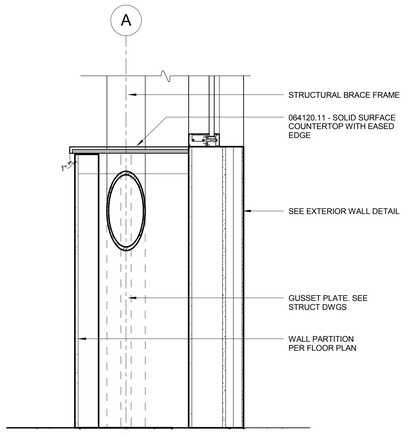
9 BACKING PLATE & ANCHORAGE REQUIREMENTS
1" = 1'-0"



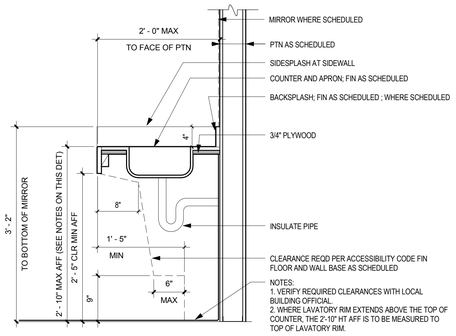
4 BACKING PLATE AND ANCHORAGE DETAILS
3" = 1'-0"



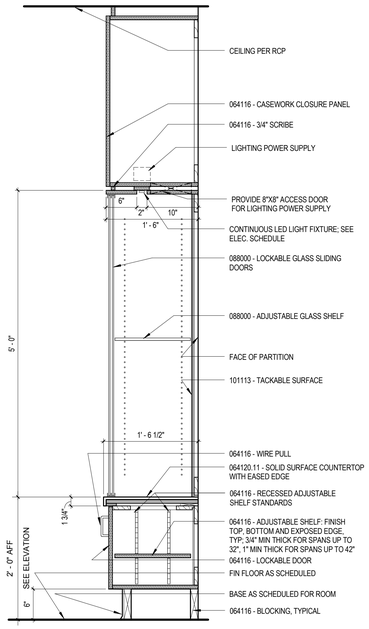
2 RECEPTION DESK
3" = 1'-0"



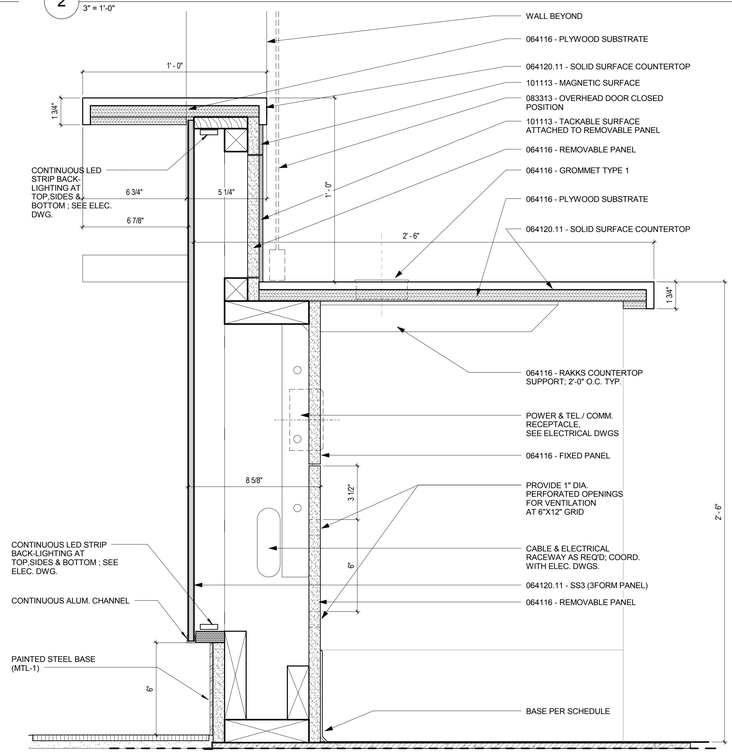
6 SOLID SURFACE COUNTER TOP @ OFFICE
1" = 1'-0"



5 TOILET COUNTERTOP
1" = 1'-0"



3 CUSTOM CABINET - DISPLAY CABINET
1" = 1'-0"



1 RECEPTION DESK AT TRANSACTION COUNTER
3" = 1'-0"

GENERAL NOTES

KEY NOTES

LEGEND

PROJECT NORTH
TRUE NORTH

ISSUE FOR BID

Revisions	Date
9	
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CONSULTANTS:

Seals and Signatures

ARCHITECT/ENGINEERS:

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Drawing Title
MILLWORK & CASEWORK DETAILS

Approved: Project Director
Approver

Project Title
VA SIMULATION CENTER

Location
Veterans Affairs Palo Alto Heath Care System
3801 Miranda Ave,Palo Alto, CA 94304

Date
JUNE 14, 2013

Checked
CW

Drawn
WK

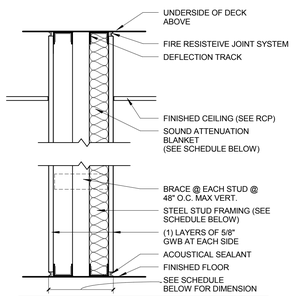
VA Project Number:
640-385

Building Number:
105

Drawing No.
A0902

VA PAHCS
Veterans Affairs Palo Alto Health Care System

Department of Veterans Affairs

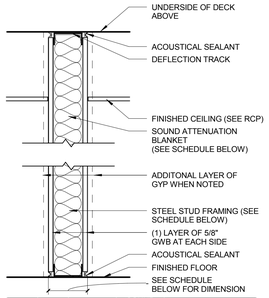


TYPE	STUD SIZE	PART. THICK.	SOUND ATTN BLANKET	KEYED NOTES
T1	2-1/2"	SEE PLAN	NONE	N/A
T2	2-1/2"	SEE PLAN	3"	N/A
T3	4"	SEE PLAN	NONE	N/A
T4	4"	SEE PLAN	3"	N/A

T — 1 HR RATED PARTITION

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

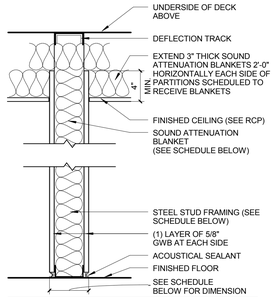
UL DESIGN U420



TYPE	STUD SIZE	PART. THICK.	SOUND ATTN BLANKET	KEYED NOTES
R1	4"	5-1/4"	NONE	N/A
R2	4"	5-1/4"	3"	N/A
R2S	4"	6-1/2"	3"	ADDITONAL LAYER GYP AT BOTH SIDES
R3	6"	7-1/4"	NONE	N/A
R4	6"	7-1/4"	3"	N/A
R4S	6"	8-1/2"	3"	ADDITONAL LAYER GYP AT BOTH SIDES

R — NON-RATED PARTITION

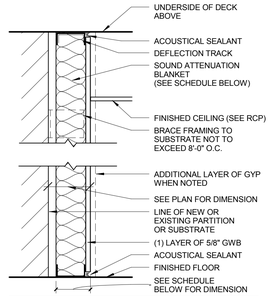
SCALE: 1 1/2" = 1'-0"



TYPE	STUD SIZE	PART. THICK.	SOUND ATTN BLANKET	KEYED NOTES
N1	4"	5-1/4"	NONE	N/A
N2	4"	5-1/4"	3"	N/A
N3	6"	7-1/4"	NONE	N/A
N4	6"	7-1/4"	3"	N/A

N — NON-RATED PARTITION

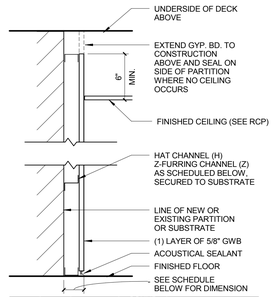
SCALE: 1 1/2" = 1'-0"



TYPE	STUD SIZE	PART. THICK.	SOUND ATTN BLANKET	KEYED NOTES
M1	1-5/8"	2-1/4"	1-1/2"	N/A
M2	2-1/2"	3-1/8"	2"	N/A
M3	4"	4-5/8"	3"	N/A
M3S	4"	5-1/4"	3"	ADDITONAL LAYER OF GYP

M — NON-RATED PARTITION

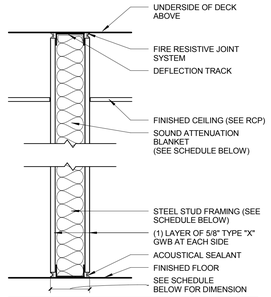
SCALE: 1 1/2" = 1'-0"



TYPE	STUD SIZE	PART. THICK.	SOUND ATTN BLANKET	KEYED NOTES
J1	7/8" (H)	1-1/2"	NONE	N/A
J2	1" (Z)	1-5/8"	NONE	N/A
J3	1- 1/2" (Z)	2-1/8"	NONE	N/A
J4	2" (Z)	2-5/8"	NONE	N/A

J — NON-RATED PARTITION

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

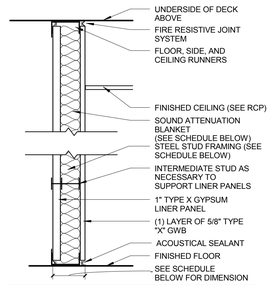


TYPE	STUD SIZE	PART. THICK.	SOUND ATTN BLANKET	KEYED NOTES
A1	4"	5-1/4"	NONE	N/A
A2	4"	5-1/4"	3"	N/A
A2S	4"	6-1/2"	3"	N/A
A3	6"	7-1/4"	NONE	N/A
A4	6"	7-1/4"	3"	N/A

A — 1 HR RATED PARTITION

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

UL DESIGN U465



TYPE	STUD SIZE	PART. THICK.	SOUND ATTN BLANKET	KEYED NOTES
F1	2-1/2" CH	3-1/8"	NONE	N/A
F2	2-1/2" CH	3-1/8"	1-1/2"	N/A
F3	4" CH	4- 5/8"	NONE	N/A
F4	4" CH	4- 5/8"	3"	N/A
F5	6" CH	6- 5/8"	NONE	N/A
F6	6" CH	6- 5/8"	3"	N/A

F — 1 HR RATED PARTITION

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

UL DESIGN U415

GENERAL NOTES

NOTE: SEAL ALL OPENINGS, GAPS, PENETRATIONS, AND JOINTS IN PARTITION TYPES AS FOLLOWS:

FIRE RATED PARTITIONS AND SMOKE BARRIERS: SEAL IN ACCORDANCE WITH THE REQUIREMENTS SPECIFIED IN THE DIVISION 07 SPECIFICATION SECTIONS FOR PENETRATION FIRESTOP SYSTEMS AND FIRE RESISTIVE JOINT SYSTEMS. REFER TO CODE COMPLIANCE DRAWINGS FOR LOCATIONS OF SMOKE BARRIERS.

PARTITIONS DESIGNED TO RESIST THE PASSAGE OF SMOKE: SEAL COMPLETELY WITH ELASTOMERIC SEALANT. FOR THE LOCATION AND EXTENT REFER TO CODE COMPLIANCE DRAWINGS.

OTHER LOCATIONS: SEAL AS INDICATED AND REQUIRED ELSEWHERE BY THE CONTRACT DOCUMENTS.

FOR ALL NON-RATED PARTITIONS, CLOSE THE VOID BETWEEN PARTITION AND UNDERSIDE OF FLOOR OR ROOF DECK WITH MINERAL WOOL (SAFING INSULATION) AND PROVIDE 1/2" DEEP NON-SAG ACOUSTICAL SEALANT, BEADED.

KEY NOTES

LEGEND

PROJECT NORTH
TRUE NORTH

ISSUE FOR BID

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CONSULTANTS:

Seals and Signatures

ARCHITECT/ENGINEERS:

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Drawing Title: PARTITION TYPES

Approved: Project Director
Approver

Project Title: VA SIMULATION CENTER

Location: Veterans Affairs Palo Alto Heath Care System, 3801 Miranda Ave,Palo Alto, CA 94304

Date: JUNE 14, 2013 | Checked: CW | Drawn: WK

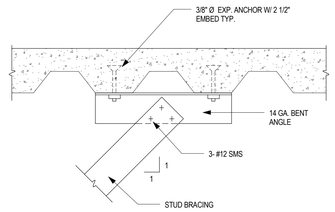
VA Project Number: 640-385

Building Number: 105

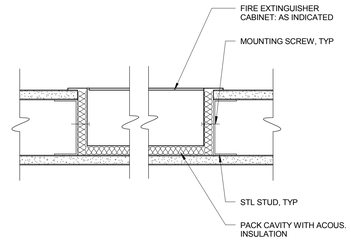
Drawing No. A1001

VA PAHCS Veterans Affairs Palo Alto Health Care System

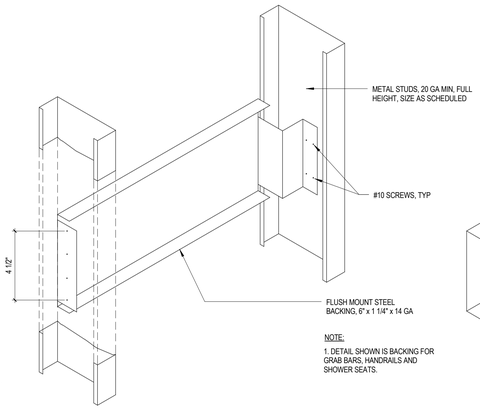
Department of Veterans Affairs



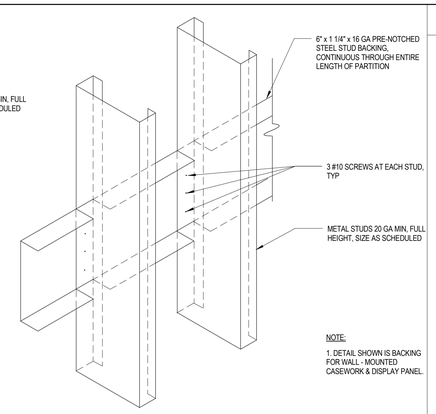
13 STUD BRACE
1 1/2" = 1'-0"



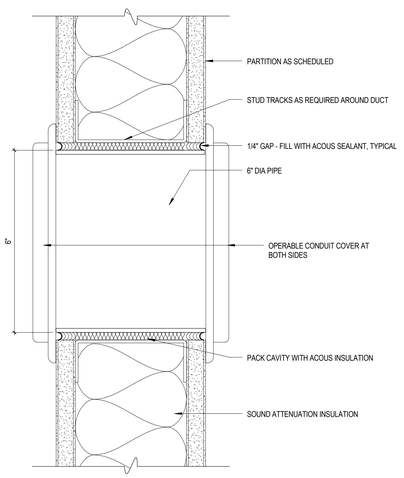
10 FIRE EXTINGUISHER CABINET IN NON-RATED PTN
3" = 1'-0"



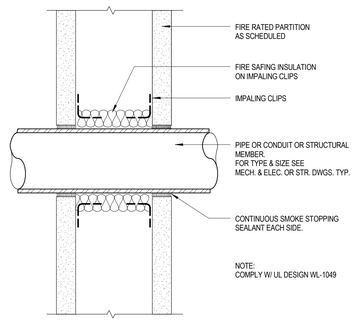
6 TYPICAL BACKING AT PARTITONS - TYPE 2
3" = 1'-0"



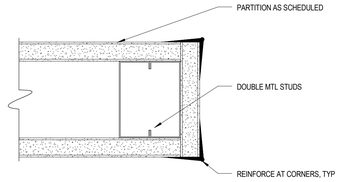
4 TYPICAL BACKING AT PARTITONS - TYPE 1
3" = 1'-0"



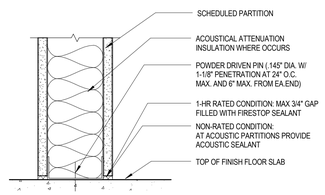
12 CAPPED CONDUIT AT CONTROL ROOM
6" = 1'-0"



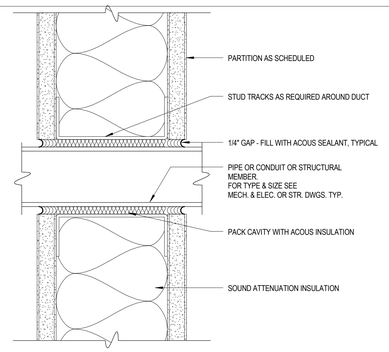
9 PIPE OR CONDUIT PENETRATION AT RATED PTN
1 1/2" = 1'-0"



5 STUB PARTITION END
6" = 1'-0"



3 1HR(UL U-465 & HW-S-0001) & NON-RATED PTN AT BASE
3" = 1'-0"



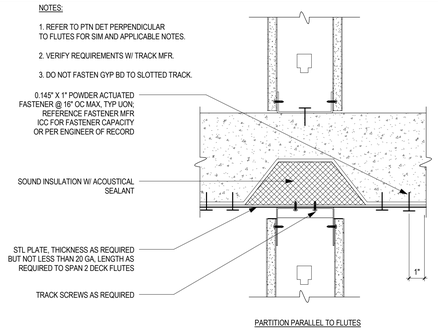
8 PENETRATION THRU NON-RATED ACOUSTICAL PTN
6" = 1'-0"

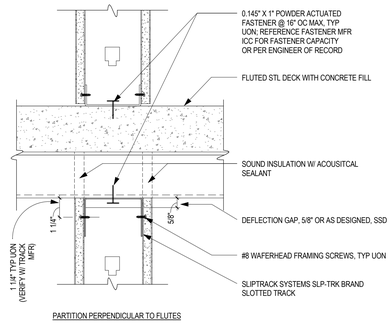
NOTES:

1. REFER TO PTN DET PERPENDICULAR TO FLUTES FOR SIM AND APPLICABLE NOTES.

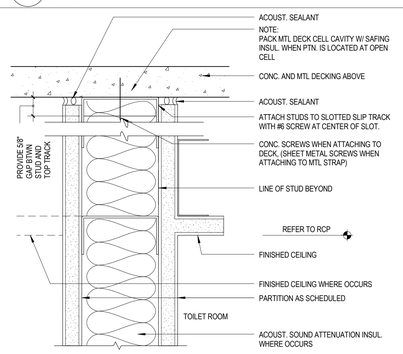
2. VERIFY REQUIREMENTS W/ TRACK MFR.

3. DO NOT FASTEN GYP BD TO SLOTTED TRACK.

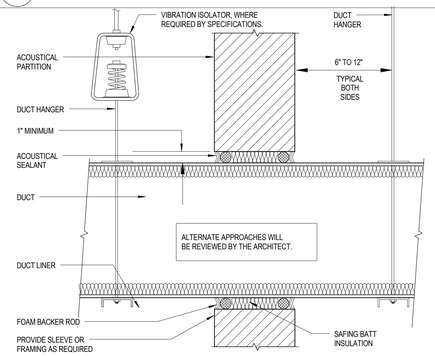




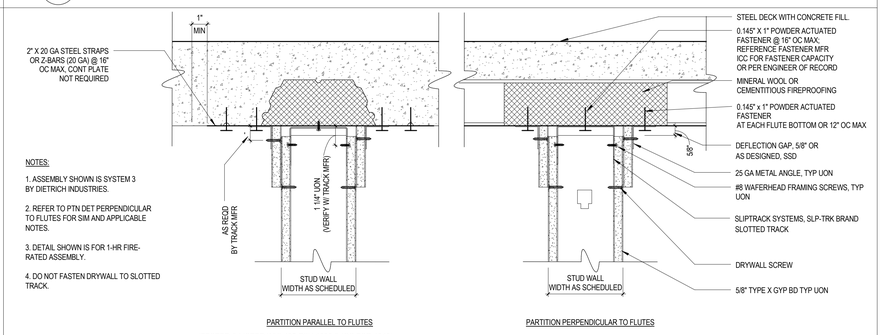
2 NON-RATED PARTITION HEAD/SILL AT COMPOSITE METAL DECK
3" = 1'-0"



11 PARTITON HEAD AT TOILET ROOM PARTITION
6" = 1'-0"



7 DUCT PENETRATION AT ACOUS PARTITION
1" = 1'-0"



NOTES:

1. ASSEMBLY SHOWN IS SYSTEM 3 BY DIETRICH INDUSTRIES.

2. REFER TO PTN DET PERPENDICULAR TO FLUTES FOR SIM AND APPLICABLE NOTES.

3. DETAIL SHOWN IS FOR 1-HR FIRE-RATED ASSEMBLY.

4. DO NOT FASTEN DRYWALL TO SLOTTED TRACK.

(TESTED & LISTED WHI-495-PSV-1333 & ICC ESR-1042)

1 RATED PARTITION HEAD AT METAL DECK (UL 2079)
3" = 1'-0"

GENERAL NOTES

KEY NOTES

LEGEND

PROJECT NORTH
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ISSUE FOR BID

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CONSULTANTS:

Seals and Signatures

ARCHITECT/ENGINEERS:

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Drawing Title
PARTITION DETAILS

Project Title
VA SIMULATION CENTER

VA Project Number: 640-385

Building Number: 105

Drawing No. A1002

Approved: Project Director
Approver

Location: Veterans Affairs Palo Alto Heath Care System, 3801 Miranda Ave,Palo Alto, CA 94304

Date: JUNE 14, 2013 | Checked: CW | Drawn: WK

VA PAHCS Veterans Affairs Palo Alto Health Care System

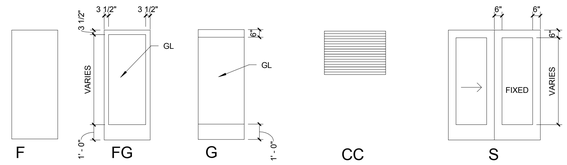
Department of Veterans Affairs

DOOR NOTES

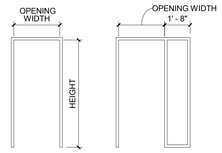
1. BEFORE ORDERING AND INSTALLATION OF HARDWARE, VERIFY THAT HARDWARE GROUP IS CORRECT FOR THE OPERATION OF SPECIFIC OPENINGS. COORDINATE LOCKING, LATCHING AND KEYING REQUIREMENTS FOR BUILDING USE AND SECURITY WITH THE OWNER OR TENANT REPRESENTATIVE.
2. FABRICATE FRAMES FOR GLASS TO ALLOW GLASS REPLACEMENT WITHOUT DISMANTLING FRAME.
3. FIRE-RESISTANCE-RATED GLAZED ASSEMBLIES: PRODUCTS IDENTICAL TO THOSE TESTED PER NFPA 252 FOR DOORS AND NFPA 257 FOR WINDOW ASSEMBLIES; BOTH LABELED AND LISTED BY UL OR ANOTHER TESTING AND INSPECTING AGENCY ACCEPTABLE TO AUTHORITIES HAVING JURISDICTION.
4. REFER TO SHEET A1021 FOR DOOR AND FRAME DETAILS.
5. EXCEPT FOR AUTOMATIC AND SLIDING DOORS, PROVIDE DOORS WITH THE BOTTOM 10 INCHES SURFACE SMOOTH AND UNINTERRUPTED TO ALLOW THE DOOR TO BE OPENED BY A WHEEL CHAIR FOOTREST WITHOUT CREATING A TRAP OR HAZARDOUS CONDITION.
6. THE HEIGHT FROM THE TOP OF FINISH FLOOR OR SCHEDULED THRESHOLD TO THE BOTTOM OF THE DOOR IS NOT TO EXCEED 1/8", UON OR IF TESTED AND APPROVED DOOR FRAME ASSEMBLY ALLOWS THE HEIGHT OT EXCEED 1/8"
7. WHERE POCKETED DOORS OR PRE-ASSEMBLED DOOR AND FRAME UNITS (SUCH AS TOTAL DOORS) ARE SCHEDULED, REFER TO FLOOR PLANS FOR CLEAR WIDTH REQUIREMENTS
8. ELEVATIONS OF DOOR AND FRAME TYPES INDICATE DOOR AND FRAME GENERAL INFORMATION ONLY. FOR SPECIFIC INFORMATION, INCLUDING SIZES, ASSEMBLY RATING AND DETAIL REFERENCES, REFER TO SHEET A1011 FOR DOOR AND FRAME SCHEDULE
9. COMPLY WITH SUBMITTAL REQUIREMENTS AS REQUIRED BY THE AUTHORITY HAVING JURISDICTION. COMPLY WITH THE SUBMITTAL REQUIREMENTS INDICATED ON THE DRAWINGS OR PROJECT MANUAL.
10. **INTERIOR DOORS**: INGLE DOOR: 3'-0" X FULL HEIGHT X 1 3/4", PLAIN SLICED MAPLE, VERTICAL GRAIN, PREMIUM QUALITY, BOOK MATCHED, SOLID CORE, EDGE BANDED WITH MATCHING MAPLE VERTICAL GRAIN WITH TRANSPARENT FINISH.
11. **FRAMES**: CLEAR ANODIZED ALUMINUM, FLUSH FRAME "VENUS".
12. INSTALL DOORS COMPLETE WITH HARDWARE FITTINGS AND ACCESSORIES AS REQUIRED FOR THE OPERATION OF THE SPECIFIC OPENINGS.
13. INSTALL EXIT DOORS TO BE OPERABLE FROM THE INSIDE WITHOUT THE USE OF KEYS OR SPECIAL KNOWLEDGE OR PARTICULAR EFFORT.
14. INSTALL HARDWARE ACCORDING TO THE STANDARDS AND REQUIREMENTS OF THE MANUFACTURERS.
15. TOUCH UP AND REPAIR IMPERFECTIONS IN EXISTING DOORS AND FRAMES SO THAT DOORS LOOK AS NEW.
16. SHOP FABRICATE FIRE-RATED DOORS TO SUIT FIELD CONDITIONS, ALLOWING FOR THE FINISH FLOOR MATERIAL. DO NOT TRIM FIRE-RATED DOORS IN THE FIELD. COPLY WITH AFPA 80 FOR FIRE RATED DOORS.
17. ADJUST DOOR CLOSERS FOR THE FOLLOWING MAXIMUM OPENING EFFORTS: 5 LBS. AT EXTERIOR DOORS, 5 LBS. AT INTERIOR DOORS, AND 18 LBS. AT FIRE DOORS.
19. THE FLOOR OR LANDING AT BOTH SIDES OF THE DOOR SHALL NOT BE MORE THAN 1/2" LOWER THAN THE THRESHOLD OF THE DOORWAY.
20. COORDINATE DOOR FRAME JAMB THROAT DIMENSION WITH THE PARTITION WIDTH.

DOOR HARDWARE NOTE

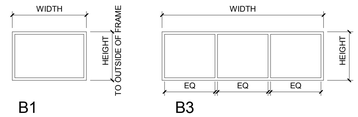
1. REFER TO DETAIL 1-3/A1011 FOR TYPICAL DOOR HARDWARE MOUNTING HEIGHTS.
2. PROVIDE HARDWARE WITH US26 BRIGHT POLISHED CHROME FINISH, TYP. UON.
3. WHERE THRESHOLDS ARE SCHEDULED, THE MAXIMUM HEIGHT ABOVE THE FINISH FLOOR IS NOT TO EXCEED 1/2". CHANGE IN LEVEL BETWEEN 1/4" AND 1/2" IS TO BE BEVELED WITH A SLOPE NO GREATER THAN 1 UNIT VERTICAL TO 2 UNITS HORIZINTAL.
4. LATCHING AND LOCKING DOORS THAT ARE HAND-ACTIVATED AND WHICH ARE IN A PATH OF TRAVEL ARE TO BE OPERABLE WITH A SINGLE EFFORT BY LEVER TYPE HARWARE, PANIC BARS, PUSH-PULL ACTIVATING BARS OR OTHER HARDWARE DESIGNED TO PROVIDE PASSAGE WITHOUT REQUIRING THE ABILITY TO GRASP THE OPENING HARDWARE. LOCKED EXIT DOORS ARE TO OPERATE AS ABOVE IN EGRESS DIRECTION
5. FOLLOW MANUFACTURER'S GUIDELINES FOR QUANTITIES AND SIZES OF HINGES BASED ON DOOR SIZE AND WEIGHT.
6. LOCATE CLOSERS ON THE ROOM OR NON-PUBLIC SIDE OF THE DOORS, IE., ON THE PULL SIDE. PROVIDE CLOSERS IN THE PUSH SIDE (PARALLEL ARM) AT DOORS SWINGING OUT FROM ROOMS. TYP. UON.
7. PROVIDE FLOOR STOPS WITH RISERS AT CONDITIONS SCHEDULED WITH CARPET FLOORING, TYP. UON.
8. WHERE SECURITY HARDWARE IS SCHEDULED, COORDINATE WORK WITH THE OWNER'S OR TENANT'S SECURITY HARDWARE CONSULTANT AND/OR VENDOR.
9. LOCKSETS SHALL HAVE INTERCHANGABLE CORES AND BUILDING STANDARD KEYWAYS: VERIFY KEYWAYS WITH BUILDING OWNER.



DOOR TYPES



FRAME TYPES



BORROWED LIGHT FRAME TYPES

DOOR SCHEDULE

OPENING NUMBER	DOOR TYPE	DOOR SIZE WIDTH	DOOR SIZE LEAF WIDTH	DOOR SIZE HEIGHT	DOOR THK	FRAME MATL	FRAME GLASS	FRAME DETAILS TYPE	FRAME DETAILS MATL	FRAME DETAILS HEAD	FRAME DETAILS JAMB	FRAME DETAILS SILL	FRAME DETAILS GLASS	FIRE RATING (MIN.)	HDW SET	REMARKS
LEVEL 1																
A100A	FG,FG	8' - 2 1/2"	4' - 0"	8' - 0"		AL	GL-1	1	AL						HW-SH-9	
A100B	FG,FG	8' - 2 1/2"	4' - 0"	8' - 0"		AL	GL-1	1	AL						HW-SH-9	
B151	F	4' - 0"		8' - 0"	1 3/4"	WD		2	AL	3/A1021	1,2/A1021		GL-3		HW-4L	
B152A	F	4' - 0"		8' - 0"	1 3/4"	WD		1	AL	3/A1021	1/A1021				HW-4L	
B152B	F	4' - 0"		8' - 0"	1 3/4"	WD		1	AL	3/A1021	1/A1021				HW-4L	
B152C	F	3' - 0"		8' - 0"	1 3/4"	WD		1	AL	3/A1021	1/A1021				HW-4L	
B153	F	4' - 0"		8' - 0"	1 3/4"	WD		1	AL	3/A1021	1/A1021				HW-4L	
B155A	F	3' - 0"		8' - 0"	1 3/4"	WD		1	AL	3/A1021	1/A1021				HW-3D	
B155B	S	6' - 0"		8' - 0"	2"	AL	GL-3	1	AL	10/A1021		9/A1021				MANUAL SLIDING DOOR
B156	F	4' - 0"		8' - 0"	1 3/4"	WD		1	AL	3/A1021	1/A1021				HW-4L	
B157	F	4' - 0"		8' - 0"	1 3/4"	WD		1	AL	3/A1021	1/A1021				HW-4L	
B158	F	3' - 0"		8' - 0"	1 3/4"	WD		1	AL	3/A1021	1/A1021				HW-3D	
B159	F	4' - 0"		8' - 0"	1 3/4"	WD		1	AL	3/A1021	1/A1021				HW-4L	
B160	F	4' - 0"		8' - 0"	1 3/4"	WD		2	AL	3/A1021	1,2/A1021		GL-3		HW-4L	
B161	F	3' - 0"		8' - 0"	1 3/4"	WD		1	AL	3/A1021	1/A1021				HW-2G	3/4" UNDERCUT
B163	F	3' - 6"		8' - 0"	1 3/4"	WD		1	AL	3/A1021	1/A1021				HW-5E	
B164	F	4' - 0"		8' - 0"	1 3/4"	WD		1	AL	3/A1021	1/A1021				HW-5E	
B165	F	4' - 0"		8' - 0"	1 3/4"	HM		1	HM	9/A0422	10/A0422				HW-E3	
B166	F	3' - 0"		8' - 0"	1 3/4"	WD		1	AL	3/A1021	1/A1021				HW-3E	
B167	F	4' - 0"		8' - 0"	1 3/4"	WD		1	AL	3/A1021	1/A1021				HW-4J	
B168A	F	4' - 0"		8' - 0"	1 3/4"	WD		1	AL	3/A1021	1/A1021			45	HW-4K	
B168B	F	4' - 0"		8' - 0"	1 3/4"	WD		1	AL	3/A1021	1/A1021			45	HW-4K	
B170A	F	3' - 0"		8' - 0"	1 3/4"	WD		1	AL	3/A1021	1/A1021				HW-4L	
B170B	F	3' - 0"		8' - 0"	1 3/4"	WD		1	AL	13/A1021	12/A1021			45	HW-4L	
B171A	F	3' - 0"		8' - 0"	1 3/4"	WD		2	AL	3/A1021	1/A1021		GL-3		HW-3E	
B171B	CC	8' - 9 3/8"		7' - 6"	1 3/4"	AL			ST	11/A1021	15/A1021					POWER OPERATED SECURITY SHUTTER
B172	F	4' - 0"		8' - 0"	1 3/4"	WD		1	AL	3/A1021	1/A1021				HW-4J	
B173	F	4' - 0"		8' - 0"	1 3/4"	WD		1	AL	3/A1021	1/A1021				HW-4L	
B174	F	3' - 6"		8' - 0"	1 3/4"	WD		2	AL	3/A1021	1/A1021		GL-3		HW-4L	
B175	F	3' - 0"		8' - 0"	1 3/4"	WD		1	AL	3/A1021	1/A1021				HW-2G	3/4" UNDERCUT
B176	F,F	6' - 0"	3' - 0"	7' - 9"	1 3/4"	HM		1	HM	9/A0422	10/A0422				HW-E8	
B177	F	3' - 6"		8' - 0"	1 3/4"	WD		1	AL	3/A1021	1/A1021				HW-5D	
C-10A	FG	3' - 9"		8' - 0"		AL		1	AL	3/A1021	1/A1021				HW-E1	
C-10B	FG	3' - 9"		8' - 0"		AL		1	AL	3/A1021	1/A1021				HW-E2	
C-11A	F	4' - 0"		8' - 0"	1 3/4"	WD		2	HM	6/A1021	5/A1021		GL-7	45	HW-4R	
C-11B	G	4' - 0"		8' - 0"		WD	GL-3		AL			14/A1021	GL-3		HW-4Q	PIVOT HINGE
LEVEL 2																
A200A	F	3' - 0"		8' - 0"	1 3/4"	HM			HM						HW-E4	
A200B	F	3' - 0"		8' - 0"	1 3/4"	HM			HM						HW-E4	

BORROWED LIGHT SCHEDULE

OPENING NUMBER	TYPE	WIDTH	HEIGHT	FRAME MATL	FRAME DETAILS HEAD	FRAME DETAILS JAMB	FRAME DETAILS SILL	FRAME GLASS	FIRE RATING (MIN.)	REMARKS
LEVEL 1										
01	B3	13' - 6"	5' - 0"	AL				GL-5		ALUMINUM SOUND CONTROL WINDOW (STC 45)
02	B1	5' - 0"	5' - 0"	AL				GL-5		ALUMINUM SOUND CONTROL WINDOW (STC 45)
03	B1	5' - 0"	5' - 0"	AL				GL-5		ALUMINUM SOUND CONTROL WINDOW (STC 45)
04	B1	5' - 0"	5' - 0"	AL				GL-5		ALUMINUM SOUND CONTROL WINDOW (STC 45)

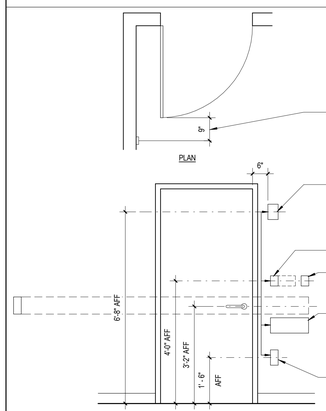
GENERAL NOTES

GLASS TYPE

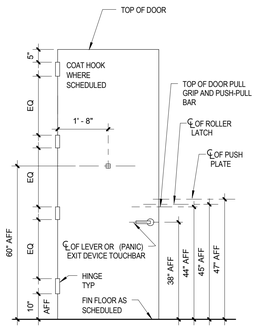
GL-1 : INSULATED EXTERIOR GLASS
GL-2 : INSULATED EXTERIOR SPANDREL GLASS
GL-3 : TEMPERED GLASS
GL-4 : DECORATIVE TEMPERED GLASS (DEBRIEFING 3) : SKYLINE DESIGN, 5+ COLLECTION, AVENUE SE
GL-5 : ACOUSTICAL MIRRORED GLASS (CONTROL ROOMS)
GL-6 : SPANDREL GLASS (ATRIUM) : SATIN DECO, ULTRA MIRROR
GL-7 : FIRE RATED GLASS

KEY NOTES

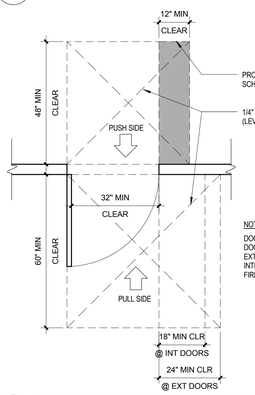
LEGEND



1 DOOR DEVICE LOCATION
1/2" = 1'-0"



2 DOOR HARDWARE MOUNTING LOCATION
1/2" = 1'-0"



NOTE:

DOOR CLOSERS MAX EFFORT TO OPERATE DOORS:
EXTERIOR DOORS = 5 POUNDS
INTERIOR DOORS = 5 POUNDS
FIRE DOORS = 15 POUNDS

3 LEVEL MANEUVERING CLEARANCE AT DOORS
1/2" = 1'-0"

NOTES:

1. HINGE LOCATIONS INDICATED ARE FOR DOORS SCHEDULED WITH FOUR HINGES. AT DOORS SCHEDULED WITH THREE HINGES, LOCATE TOP AND BOTTOM HINGES AS SHOWN, WITH THE INTERMEDIATE HINGE EQUALLY SPACED BETWEEN THE TWO.

2. WHERE SCHEDULED, LOCATE PUSH PLATE AS INDICATED. WHERE DEADLOCKS WITH PUSH-PULL PLATES ARE SCHEDULED, MOUNT AT 48" AFF TO CENTERLINE.

3. KICK, MOP & ARMOR PLATES: 10" HIGH X DR WIDTH (NOMINAL), TYP UON OR AS SCHEDULED. UNDERSIZE PLATE BY 1/4" OFF THE BOT & TWO SIDES OF THE DOOR OR AS REQD FOR DOOR TO FUNCTION PROPERLY.

4. ON SINGLE DOOR FRAMES, PLACE SILENCER OPPOSITE THE HINGES. ON DOUBLE DOOR FRAMES, PLACE SILENCERS AT 6" FROM EACH SIDE OF THE CENTER OF DOOR HEAD STOP.

5. FINISH FLOOR IS TOP SURFACE OF SCHEDULED FINISH FLOORING MATERIAL, TYP UON.

HW-2G : TOILET
SINGLE/ NON- RATED/ PRIVACY LOCK

HINGES	QUANTITY & TYPE AS REQUIRED
1 KEYED PRIVACY INDICATOR LOCK	F13 x OCCUPANCY INDICATOR
1 CLOSER	C02011/C02021
1 KICK PLATE	J102
1 MOP PLATE (@ INSWING DOORS)	J103
1 FLOOR STOP	L02121 x 3 FASTENERS
2 SET SELF-ADHESIVE SEALS	R0Y154
1 COAT HOOK	L03121

HW-3D : CONTROL ROOM
SINGLE/ NON- RATED/ OFFICE LOCK

HINGES	QUANTITY & TYPE AS REQUIRED
1 OFFICE LOCK	F04
1 FLOOR STOP	L02121 x 3 FASTENERS
1 THRESHOLD	J 32300 X 57 MM WIDTH (2-1/4 INCHES)
1 AUTO DOOR BOTTOM	R0Y346 - HEAVY DUTY
1 SET SOUND/LIGHT SEAL	R0Y264 / R0Y255

HW-3E : OFFICE
SINGLE/ NON- RATED/ OFFICE LOCK

HINGES	QUANTITY & TYPE AS REQUIRED
1 OFFICE LOCK	F04
1 FLOOR STOP	L02121 x 3 FASTENERS
1 SET SELF-ADHESIVE SEALS	R0Y154
1 COAT HOOK	L03121

HW-4J : PREP/STORAGE, WET AND DRY UTILITY
SINGLE/ NON-RATED/ UTILITY LOCK

HINGES	QUANTITY & TYPE AS REQUIRED
1 UTILITY LOCK	F09
1 FLOOR STOP	L02121 x 3 FASTENERS
1 ARMOR PLATE	J101 x 3.175 MM (0.125 INCH) THICKNESS
1 EDGE GUARD (@ WOOD DOORS)	J208M / J211 (VERIFY), CUT: HARDWARE
1 SETS SELF-ADHESIVE SEALS	R0Y154

HW-4K : STORAGE
SINGLE/ RATED/ UTILITY LOCK

1 CONTINUOUS HINGE	X INTEGRAL HINGE GUARD CHANNEL X ADJUSTA-SCREWS
1 UTILITY LOCK	F09
1 CLOSER (@ RATED DOOR)	C02011/C02021
1 ARMOR PLATE	J101 x 3.175 MM (0.125 INCH) THICKNESS
1 EDGE GUARD (@ WOOD DOORS)	J208M / J211 (VERIFY), CUT: HARDWARE
1 FLOOR STOP	L02121 x 3 FASTENERS
1 SET SELF-ADHESIVE SEALS	R0Y154

HW-4L : LARGE SIMULATION/ PATIENT/ DEBRIEFING
SINGLE/ NON-RATED/ CLASSROOM LOCK

1 CONTINUOUS HINGE	X INTEGRAL HINGE GUARD CHANNEL X ADJUSTA-SCREWS
1 CLASSROOM LOCK	F08
1 EDGE GUARD (@ WOOD DOORS)	J208M / J211 (VERIFY), CUT: HARDWARE
1 FLOOR STOP	L02121 X 3 FASTENERS
1 THRESHOLD	J 32300 X 57 MM WIDTH (2-1/4 INCHES)
1 AUTO DOOR BOTTOM	R0Y346 - HEAVY DUTY
1 SET SOUND/LIGHT SEALS	R0Y264 / R0Y255

HW-4Q : SUITE ENTRY DOOR
SINGLE/ NON-RATED /CARDKEY(FUTURE)

1 OVERHEAD CONCEALED CLOSER	DORMA RTS 88
1 EXIT DEVICE	DORMA GLAS DG 1000 TOP LATCHING BOLT WITH ELECTRIC STRIKES (FAIL-SECURE) 24 VDC
1 CYLINDER	TYPE AS REQUIRED
1 POWER SUPPLY	REGULATED, FILTERED, 24 VDC, AMPERAGE AS REQUIRED
1 CARD READER (FUTURE)	BY DIVISION 28
1 RE-ACTIVATION SENSOR (FUTURE)	BY SECTION 08 71 13

NOTE: 120 VAC POWER, CONDUIT AND WIRING BY DIVISION 26

HW-4R : CORRIDOR DOOR
SINGLE/ RATED/CARDKEY (FUTURE)

1 CONTINUOUS HINGE	HG-305 (MARKAR) HINGE GUARD AND ADJUSTA SCREWS
1 CLASSROOM LOCK	F08
1 ELECTRIC STRIKE	E09321 (FAIL-SECURE), 24VDC
1 DOOR CLOSER	C02011/C02021 (PTD4, PT4F, PT4H)
1 KICK PLATE	J102
1 EDGE GUARD (@ WOOD DOORS)	J208M / J211 (VERIFY), CUT FOR HARDWARE
1 FLOOR STOP	L02121 x 3 FASTENERS
2 SET SELF-ADHESIVE SEALS	J32300 x 57 MM WIDTH (2-1/4 INCHES)
1 POWER SUPPLY	R0Y346 – HEAVY DUTY
1 CARD READER (FUTURE)	R0Y154
1 RE-ACTIVATION SENSOR (FUTURE)	REGULATED, FILTERED, 24 VDC, AMPERAGE AS REQUIRED BY DIVISION 28 BY SECTION 08 71 13

NOTE: 120 VAC POWER, CONDUIT AND WIRING BY DIVISION 26

HW-5D : HAC
SINGLE/NON-RATED/STOREROOM LOCK

HINGES	QUANTITY & TYPE AS REQUIRED
1 STOREROOM LOCK	F07
1 KICK PLATE	J102 (@ STORAGE, EVM, & HAC ROOMS ONLY)
1 WALL STOP (@OUTSWING DOOR)	L02101 CONVEX
3 SILENCERS	L03011

HW-5E : AV RACK/MED GAS STORAGE
SINGLE/NON-RATED/STOREROOM LOCK

1 CONTINUOUS HINGE	X INTEGRAL HINGE GUARD CHANNEL X ADJUSTA-SCREWS
1 STOREROOM LOCK	F13-MOD x RIGID OUTSIDE LEVER x KEY RETRACTS DEADBOLT AND LATCHBOLT
1 ARMOR PLATE	J101 x 3.175 MM (0.125 INCH) THICKNESS
1 EDGE GUARD (@ WOOD DOORS)	J208M / J211 (VERIFY), CUT: HARDWARE
1 FLOOR STOP	L02121 x 3 FASTENERS
1 SET SELF-ADHESIVE SEALS	R0Y154

HW-E1 : ENTRY DOOR - EXIT ONLY
SINGLE/ NON-RATED/ MEDIUM STILE ALUMINUM FRAMED GLASS DOOR

1 CONTINUOUS HINGE	MCK-12HD (MCKINNEY) OR EQUAL
1 EXIT DEVICE	TYPE 4 F03
1 CYLINDER	TYPE AS REQUIRED
1 ANTI-VANDAL PULL	1097HA (TRIMCO) OR EQUAL
1 OVERHEAD STOP	C01541-ADJUSTABLE
1 DOOR CLOSER	C02011/C02021 (PTD4, PT4F, PT4H)
1 THRESHOLD	J35130 X SILICONE GASKET
1 DOOR SWEEP	90100CNB(PEMKO), OR EQUAL
1 RAIN DRIP	R0Y976

NOTE: FRAME SEALS BY FRAME MANUFACTURER

HW-E2 : ENTRY DOOR
SINGLE/ NON-RATED/ CARDKEY(FUTURE)/MEDIUM STILE ALUMINUM FRAMED GLASS DOOR

1 CONTINUOUS HINGE	MCK-12HD (MCKINNEY) OR EQUAL
1 EXIT DEVICE	TYPE 4 F03
1 CYLINDER	TYPE AS REQUIRED
1 ANTI-VANDAL PULL	1097HA (TRIMCO) OR EQUAL
1 ELECTRIC STRIKE	9600 x 2005M3 (HES) OR EQUAL
1 OVERHEAD STOP	C01541-ADJUSTABLE
1 DOOR CLOSER	C02011/C02021 (PTD4, PT4F, PT4H)
1 THRESHOLD	J35130 X SILICONE GASKET
1 DOOR SWEEP	90100CNB(PEMKO), OR EQUAL
1 RAIN DRIP	R0Y976
1 POWER SUPPLY	REGULATED, FILTERED, 24 VDC, AMPERAGE AS REQUIRED
1 CARD READER (FUTURE)	BY DIVISION 28
1 RE-ACTIVATION SENSOR (FUTURE)	BY SECTION 08 71 13

NOTE: 120 VAC POWER, CONDUIT AND WIRING BY DIVISION 26
FRAME SEALS BY FRAME MANUFACTURER

HW-E3 : ELECT
SINGLE/ NON-RATED/ STOREROOM LOCK

POCKET PIVOT/HINGE	IVES 91105F POCKET PIVOT
1 STOREROOM LOCK	F13-MOD x RIGID OUTSIDE LEVER x KEY RETRACTS DEADBOLT AND LATCHBOLT
1 LATCH PROTECTOR (OUTSWING DR)	
1 CLOSER	C02011/C02021
1 OVERHEAD HOLDER	C01511-ADJUSTABLE
1 THRESHOLD (OUTSWING DOOR)	J32120 x SILICONE GASKET
1 DOOR SWEEP	R0Y416
1 SET FRAME SEALS	R0Y164
1 DRIP	R0Y976

HW-E4 : ROOF ACCESS
SINGLE/ NON-RATED/ UTILITY LOCK

1 CONTINUOUS HINGE	X INTEGRAL HINGE GUARD CHANNEL X ADJUSTA-SCREWS
1 UTILITY LOCK	F09
1 LATCH PROTECTOR (OUTSWING DR)	C02011/C02021
1 CLOSER	C01511-ADJUSTABLE
1 OVERHEAD HOLDER	J32120 x SILICONE GASKET
1 THRESHOLD (OUTSWING DOOR)	R0Y416
1 DOOR SWEEP	R0Y164
1 SET FRAME SEALS	R0Y976
1 DRIP	

HW-E8 : MECHANICAL
PAIR/ NON-RATED/ STOREROOM LOCK

POCKET PIVOT/HINGE	IVES 91105F POCKET PIVOT
1 SET AUTO FLUSH BOLTS	TYPE 25
1 DUST PROOF STRIKE	L04021
1 STOREROOM LOCK	F13-MOD x RIGID OUTSIDE LEVER x KEY RETRACTS DEADBOLT AND LATCHBOLT
1 OVERLAPPING ASTRAGAL WITH SELF-ADHESIVE SEAL	R0Y634 x R0Y154 x THRU-BOLTS
1 COORDINATOR	TYPE 21A
2 CLOSER	C02011/C02021
2 FLOOR STOP	L02121 x 3 FASTENERS
1 THRESHOLD (OUTSWING DOOR)	J32120 x SILICONE GASKET
2 DOOR SWEEP	R0Y416
1 SET FRAME SEALS	R0Y164
1 DRIP	R0Y976

HW-SH-9 : MAIN ENTRANCE
PAIR /NON-RATED/ MEDIUM STILE ALUM FRAMED GLASS DOORS/ ADO /EXIT DEVICE /CARDKEY (FUTURE)

2 CONTINUOUS HINGE	MCK-12HD x EPT (MCKINNEY) OR EQUAL
2 POWER TRANSFER	CEPT-10 (SECURITRON) OR EQUAL
1 ELECTRIFIED EXIT DEVICE	TYPE 6 F02 WITH REX, ELECTRIC LATCH RETRACTION & HEX-KEY DOGGING
1 ELECTRIFIED EXIT DEVICE	TYPE 6 F12 WITH REX, ELECTRIC LATCH RETRACTION & HEX-KEY DOGGING
1 CYLINDER	TYPE AS REQUIRED
1 ANTI-VANDAL PULL	1097HA (TRIMCO) OR EQUAL
1 OVERHEAD STOP	C01541-ADJUSTABLE
1 AUTO OPERATOR	BY SECTION 08 71 13
1 THRESHOLD	J35130 X SILICONE GASKET
1 DOOR SWEEP	90100CNB(PEMKO), OR EQUAL
1 RAIN DRIP	R0Y976
1 POWER SUPPLY	AS REQUIRED BY EXIT DEVICE MANUFACTURER X ADO BOARD 24 VDC
1 CARD READER (FUTURE)	BY DIVISION 28
1 RE-ACTIVATION SENSOR (FUTURE)	BY SECTION 08 71 13

NOTE: 120 VAC POWER, CONDUIT AND WIRING BY DIVISION 26
AUTOMATIC DOOR OPERATOR AND CONTROLS BY SECTION 08 71 13
FRAME SEALS BY FRAME MANUFACTURER

DOOR HARDWARE TYPE

PROJECT NORTH
TRUE NORTH

ISSUE FOR BID

Revisions	Date
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CONSULTANTS:

Seals and Signatures

ARCHITECT/ENGINEERS:

CANNONDESIGN
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Baltimore ■ Boston ■ Buffalo ■ Calgary ■ Chicago
Houston ■ Los Angeles ■ Mumbai ■ New York ■ Phoenix
St. Louis ■ San Francisco ■ Shanghai ■ Toronto
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Drawing Title: DOOR & WINDOW SCHEDULES

Approved: Project Director
Approver

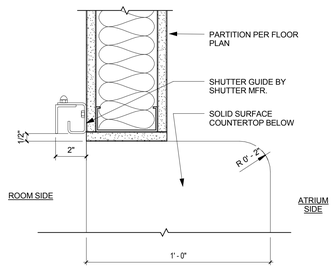
Project Title: VA SIMULATION CENTER

Location: Veterans Affairs Palo Alto Heath Care System, 3801 Miranda Ave,Palo Alto, CA 94304

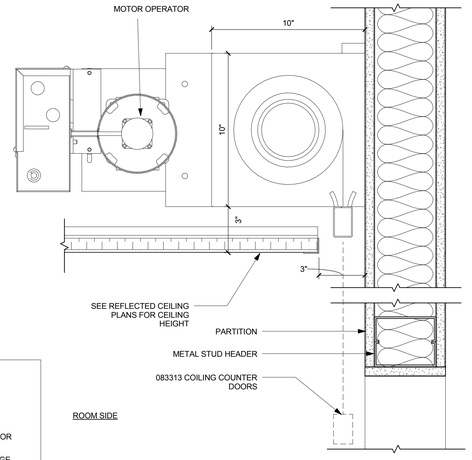
Date: JUNE 14, 2013 | Checked: CW | Drawn: WK

VA Project Number: 640-385
Building Number: 105
Drawing No. A1011

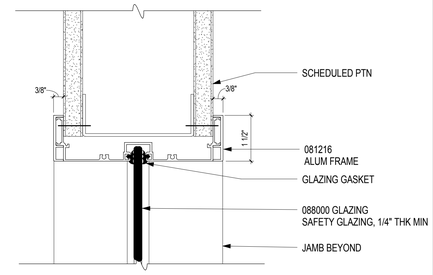
VA PAHCS Veterans Affairs Palo Alto Health Care System
Department of Veterans Affairs



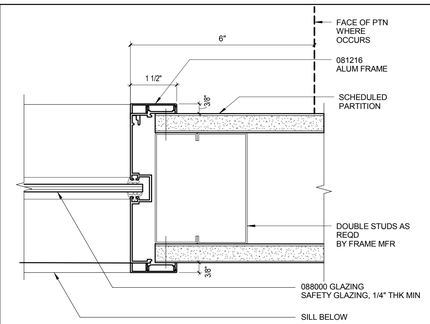
15 OVERHEAD DOOR JAMB
3" = 1'-0"



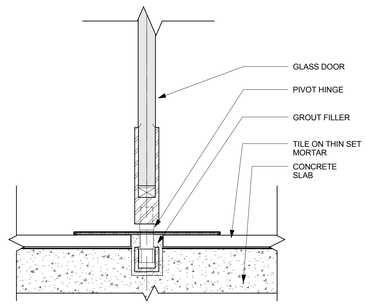
11 OVERHEAD DOOR HEAD
3" = 1'-0"



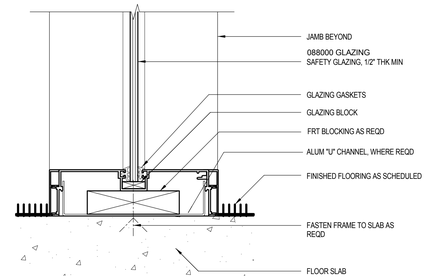
8 ALUM WINDOW - HEAD CONDITION, TYP
6" = 1'-0"



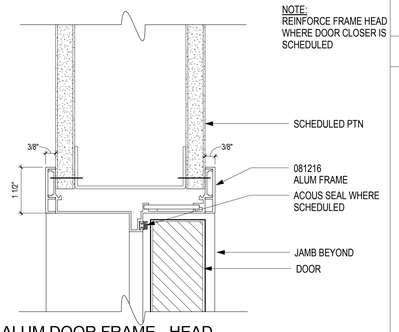
4 ALUM WINDOW - JAMB, TYP
6" = 1'-0"



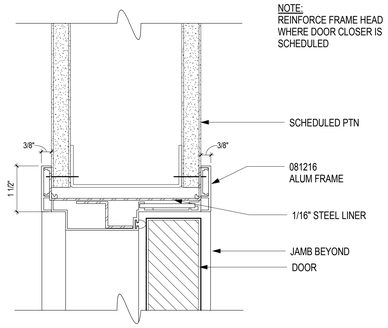
14 FLOOR RECESSED PIVOT HINGE
6" = 1'-0"



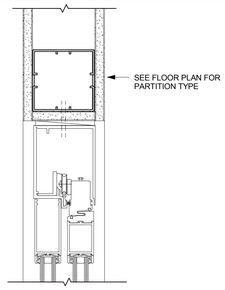
7 ALUM WINDOW - SILL AT FLOOR, TYP
6" = 1'-0"



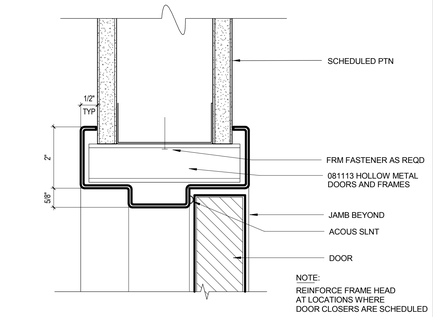
3 ALUM DOOR FRAME - HEAD
6" = 1'-0"



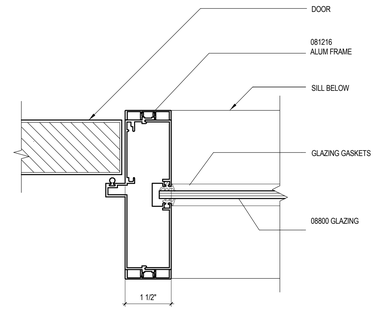
13 ALUM DOOR FRAME - 1HR - HEAD
6" = 1'-0"



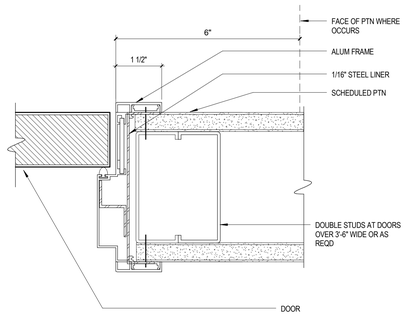
10 ALUM. SLIDING DOOR - HEAD
3" = 1'-0"



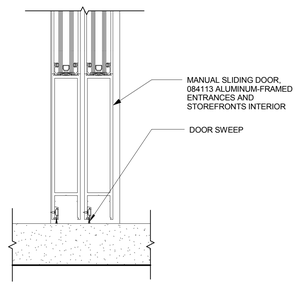
6 STL DOOR FRAME - HEAD
6" = 1'-0"



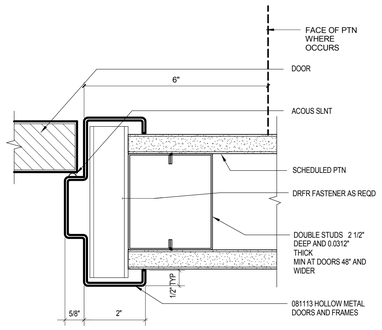
2 ALUM DOOR FRAME - JAMB AT SIDELITE, TYP
6" = 1'-0"



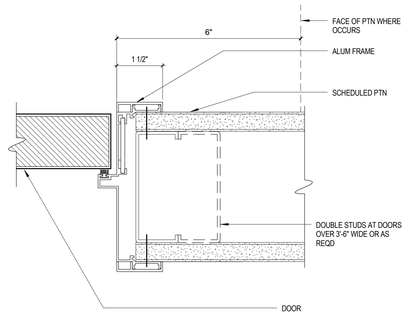
12 ALUM DOOR FRAME - 1HR - JAMB
6" = 1'-0"



9 ALUM. SLIDING DOOR - SILL
3" = 1'-0"



5 STL DOOR FRAME - JAMB, TYP
6" = 1'-0"



1 ALUM. DOOR FRAME - JAMB AT PARTITION, TYP
6" = 1'-0"

GENERAL NOTES

KEY NOTES

LEGEND

ISSUE FOR BID

Revisions	Date
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CONSULTANTS:

Seals and Signatures

ARCHITECT/ENGINEERS:

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Vancouver ■ Victoria ■ Washington DC

Drawing Title: DOOR & WINDOW DETAILS

Project Title: VA SIMULATION CENTER

VA Project Number: 640-385

Building Number: 105

Approved: Project Director
Approver

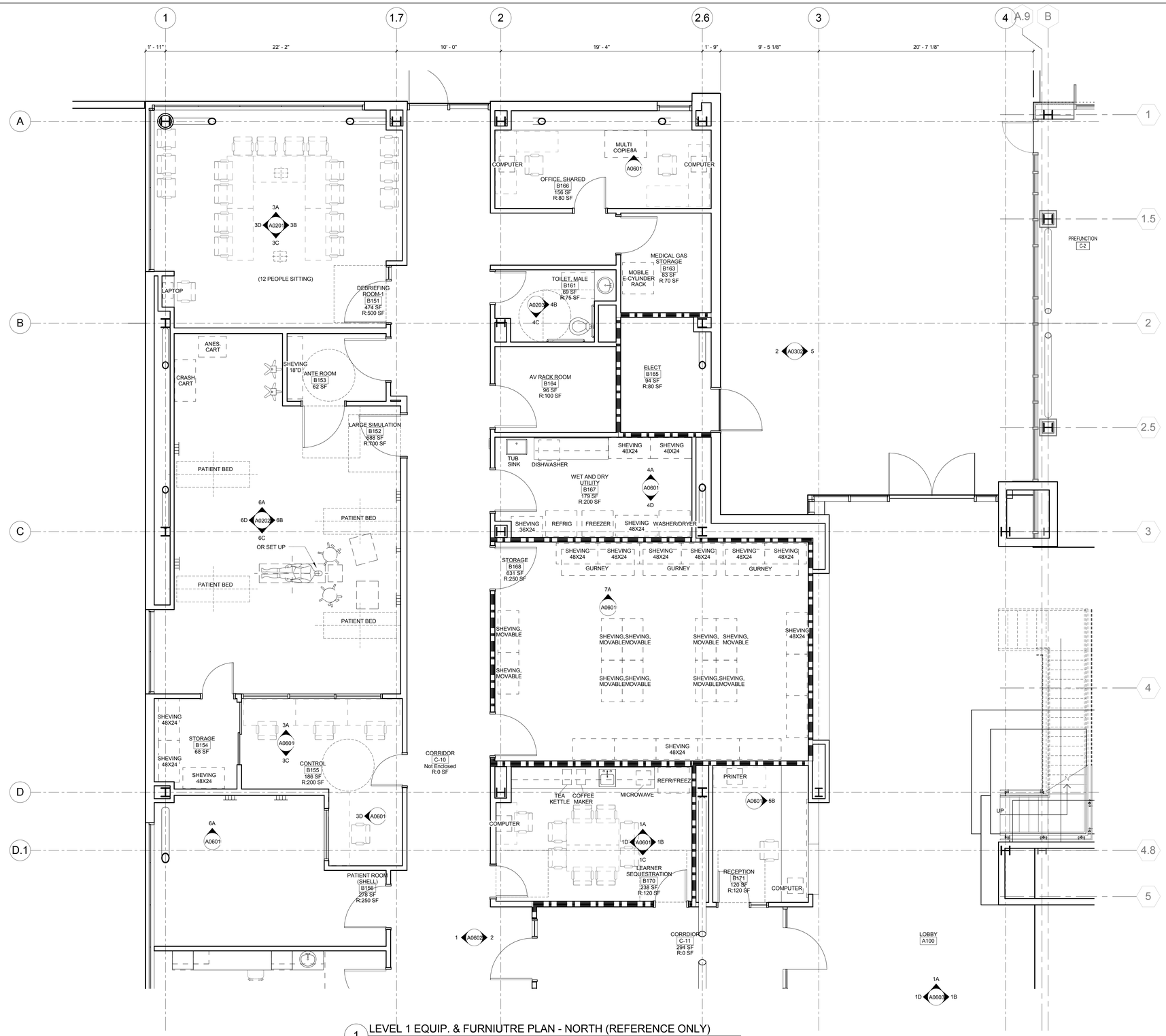
Location: Veterans Affairs Palo Alto Heath Care System, 3801 Miranda Ave,Palo Alto, CA 94304

Date: JUNE 14, 2013 | Checked: CW | Drawn: WK

Drawing No. A1021

VA PAHCS Veterans Affairs Palo Alto Health Care System

Department of Veterans Affairs



1 LEVEL 1 EQUIP. & FURNIUTRE PLAN - NORTH (REFERENCE ONLY)
1/4" = 1'-0"

GENERAL NOTES

1. FURNITURE ARE SHOWN AS REFERENCE ONLY.
2. EQUIPMENTS ARE SHOWN AS REFERENCE ONLY. REFER TO EQUIPMENT LIST FOR VFCI EQUIPMENTS.

KEY NOTES

LEGEND

PROJECT NORTH
TRUE NORTH

ISSUE FOR BID

Revisions		Date
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CONSULTANTS:

Seals and Signatures

ARCHITECT/ENGINEERS:

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St. Louis ■ San Francisco ■ Shanghai ■ Toronto
Vancouver ■ Victoria ■ Washington DC

Drawing Title
LEVEL 1 EQUIPMENT & FURNITURE PLAN - NORTH (REFERENCE ONLY)

Approved: Project Director
Approver

Project Title
VA SIMULATION CENTER

Location
Veterans Affairs Palo Alto Heath Care System
3801 Miranda Ave,Palo Alto, CA 94304

Date
JUNE 14, 2013

Checked
CW

Drawn
WK

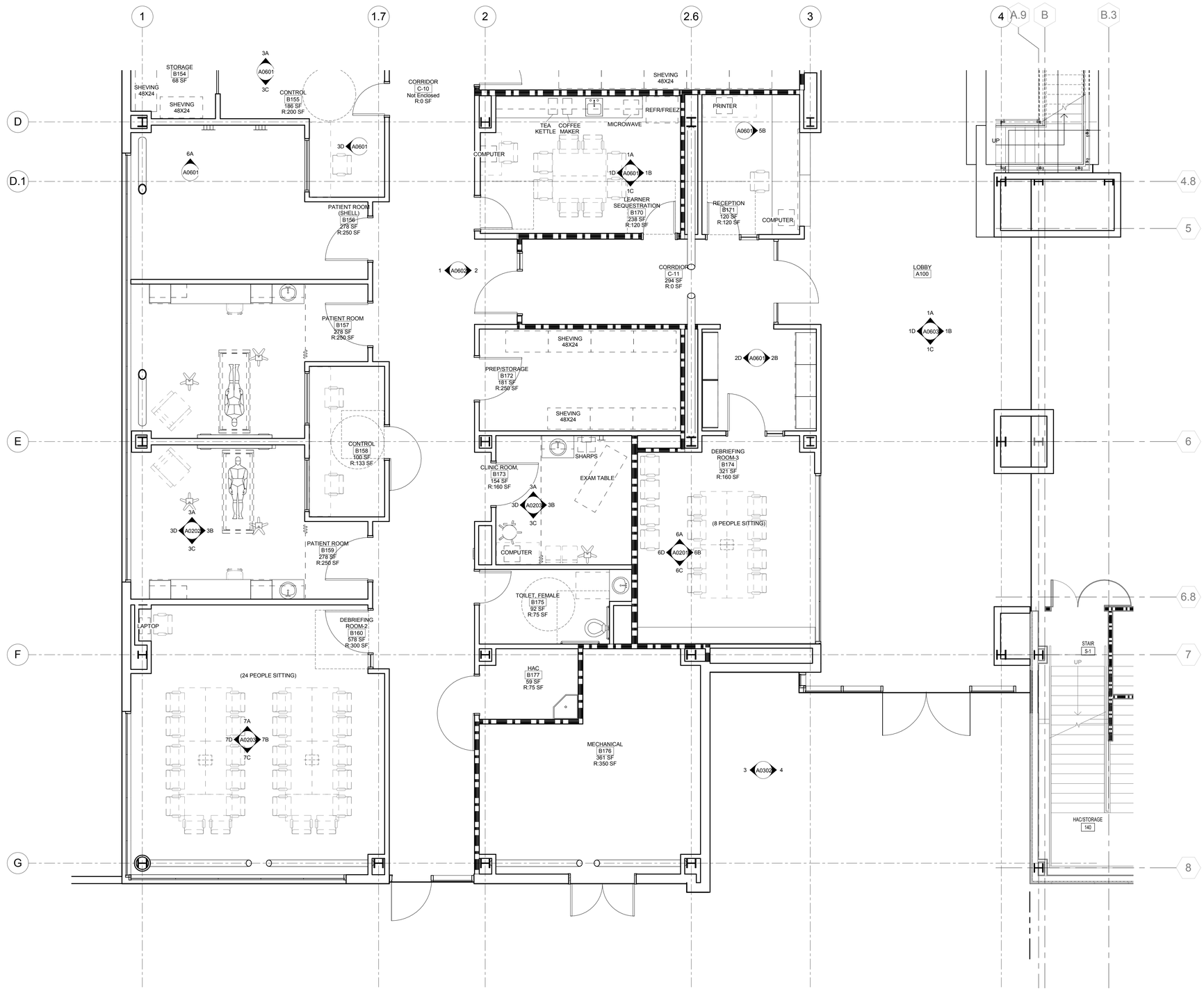
VA Project Number:
640-385

Building Number:
105

Drawing No.
A1101

VA PAHCS
Veterans Affairs Palo Alto Health Care System

Department of Veterans Affairs



1 LEVEL 1 EQUIP. AND FURNIUTRE PLAN - SOUTH
1/4" = 1'-0"

GENERAL NOTES

1. FURNITURE ARE SHOWN AS REFERENCE ONLY.
2. EQUIPMENTS ARE SHOWN AS REFERENCE ONLY. REFER TO EQUIPMENT LIST FOR VFCI EQUIPMENTS.

KEY NOTES

LEGEND

PROJECT NORTH
TRUE NORTH

ISSUE FOR BID

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CONSULTANTS:

Seals and Signatures

ARCHITECT/ENGINEERS:

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St. Louis ■ San Francisco ■ Shanghai ■ Toronto
Vancouver ■ Victoria ■ Washington DC

Drawing Title
LEVEL 1 EQUIPMENT & FURNITURE PLAN - SOUTH (REFERENCE ONLY)

Approved: Project Director
Approver

Project Title
VA SIMULATION CENTER

Location Veterans Affairs Palo Alto Heath Care System
3801 Miranda Ave,Palo Alto, CA 94304

Date JUNE 14, 2013 | Checked CW | Drawn WK

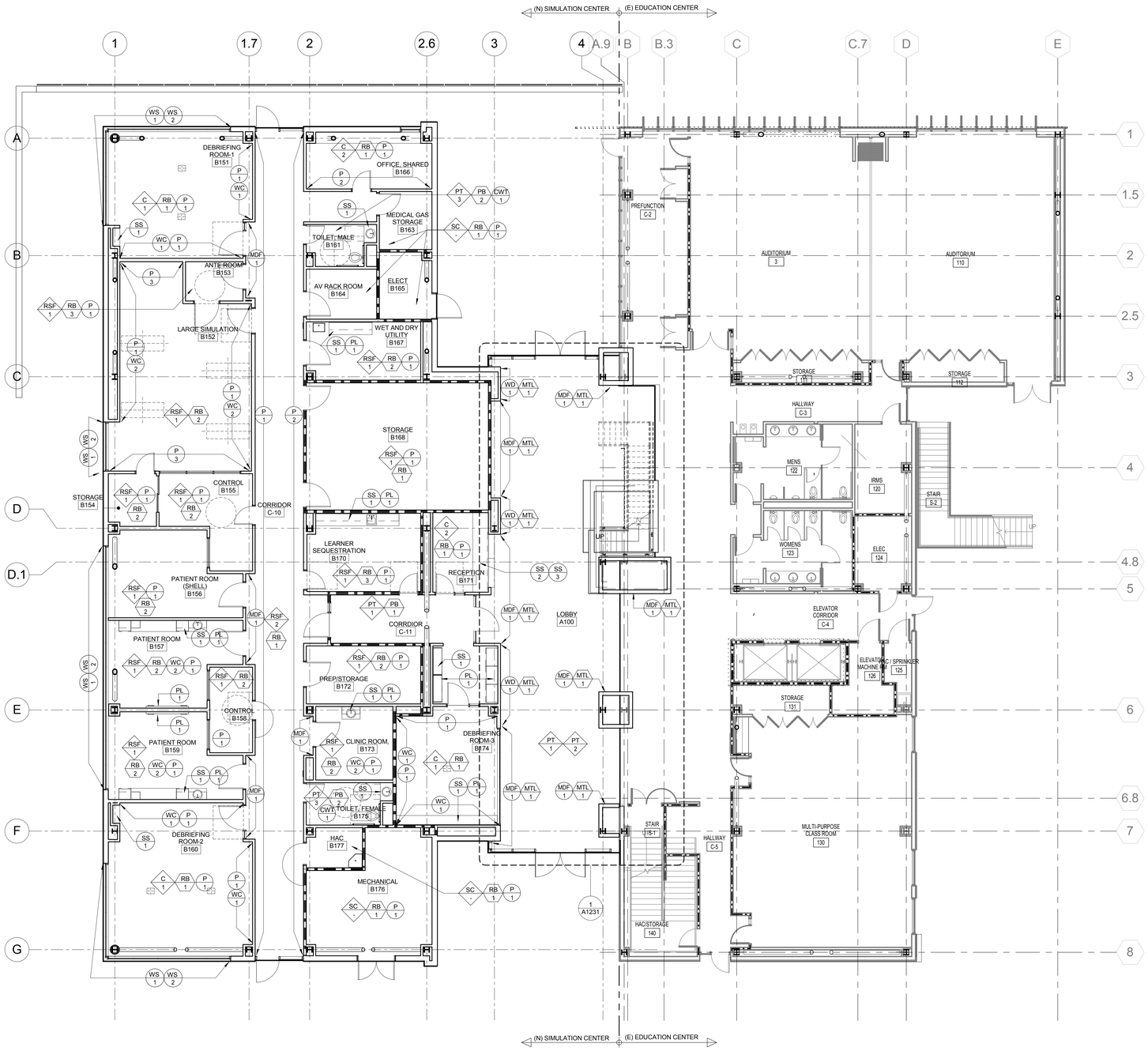
VA Project Number: 640-385

Building Number: 105

Drawing No. A1102

VA PAHCS Veterans Affairs Palo Alto Health Care System

Department of Veterans Affairs



1 LEVEL 1 FINISH PLAN
1/8" = 1'-0"

FINISH LEGEND

CARPET

- C 1 — CARPET TILE, MFR: SHAW CONTRACT, STYLE: GLITZ 59360, COLOR: EDAMAME, COLOR#: 60309
- C 2 — CARPET TILE, MFR: SHAW CONTRACT, STYLE: RADIANCE 59361, COLOR: EDAMAME, COLOR#: 60309

PORCELAIN TILE

- PT 1 — MFR: ROCA TILE GROUP, PRODUCT: PACKSTONE, COLOR: ARENA, DIMENSIONS: 24"X48", GROUT: HYDROMENT FLASH WALNUT H141, LOCATION: LOBBY
- PT 2 — MFR: ROCA TILE GROUP, PRODUCT: PACKSTONE, COLOR: BAMBOO, DIMENSIONS: 12"X24", GROUT: HYDROMENT FLASH WALNUT H141, LOCATION: LOBBY
- PT 3 — MFR: ROCA TILE GROUP, PRODUCT: NORWAY, COLOR: ARCE, DIMENSIONS: 6"X26", GROUT: HYDROMENT FLASH WALNUT H141, LOCATION: RESTROOM

RESILIENT SHEET FLOORING

- RSF 1 — MFR: ARMSTRONG, SERIES: MEDINTONE SHEET, COLOR: NATURAL H3312, LOCATION: VINYL SHEET FLOOR-SIMLATION ROOM AND ALL CLINICICAL AREA
- RSF 2 — MFR: ARMSTRONG, SERIES: REJUVENATIONS SHEET, PATTERN: AMBIGU ALCHEMY 38063, COLOR: GINGER, LOCATION: VINYL SHEET FLOOR- CORRIDOR

SEALED CONCRETE

- SC -

WOOD FLOORING

- WD 1 — MFR: ARMSTRONG, ITEM NUMBER: ESP5240 NATURAL, SPECIES: MAPLE, FORM: PLANK, SIZE: 48"X 5" X 3/8" THK, LOCATION: ATRIUM - WAITING

BASE

- RB 1 — 6" RESILIENT BASE, JOHNSONITE 179 STEEL
- RB 2 — 6" RESILIENT SHEET FLOORING COVE BASE, MFR: ARMSTRONG, SERIES: MATCH FLOOR
- PB 1 — 6" PORCELAIN TILE BASE, MFR: ROCA TILE GROUP, PRODUCT: PACKSTONE, COLOR: ARENA, DIMENSIONS: 6" HIGH
- PB 2 — 6" PORCELAIN TILE BASE, MFR: UNITED STATES CERAMIC TILE, COLOR: BISCUIT, DIMENSIONS: 6" X 6"
- MTL 1 — 6" PAINTED STEEL BASE, 1/8" THK STEE PLATE, COLOR : PT-4

CERAMIC WALL TILE

- CWT 1 — MFR: UNITED STATES CERAMIC TILE, COLOR: BISCUIT, DIMENSIONS: 3" X 6", GROUT: HYDROMENT DELOREAN GRAY H160, LOCATION: RESTROOM

PAINT

- P 1 — MFR: KELLY-MOORE, COLOR: PRISTINE LINEN OW228-1, FINISH: EGGSHELL, LOCATION: GENERAL WHITE
- P 2 — MFR: BENJAMIN MOORE, COLOR: MOONSHINE 2140-60, FINISH: EGGSHELL, LOCATION: ACCENT
- P 3 — MFR: KELLY-MOORE, COLOR: PORTSMOUTH OLIVE KM 3405-2, FINISH: EGGSHELL, LOCATION: ACCENT
- P 4 — MFR: KELLY-MOORE, COLOR: OPENING NIGHT KM 3832-5, FINISH: SEMI-GLOSS, LOCATION: MTL WALL BASE
- P 5 — MFR: KELLY-MOORE, COLOR: DUNGEON AC259-5, FINISH: SEMI-GLOSS, LOCATION: BEHIND WALL OF PERFORATED WOOD WALL PANEL (WD-1)

PLASTIC LAMINATE

- PL 1 — MFR: WILSONART, COLOR: FUSION MAPLE 7909-60, LOCATION: CASEWORK

SOLID SURFACE

- SS 1 — MFR: CORIAN, COLOR: WHISPER, LOCATION: COUNTERTOP, TYPICAL
- SS 2 — MFR: CORIAN, COLOR: MEDEA, LOCATION: RECEPTION DESK COUNTERTOP
- SS 3 — MFR: 3FORM, STYLE: STONE SERIES -TRACE BONE, FINISH: POLISHED, THICKNESS: 3/8", LOCATION: RECEPTION DESK CASEWORK

WOOD

- WD 1 — MFR: ARMSTRONG, SERIES: WOODWORK WALL PANEL, SPECIES: NATURAL MAPLE (MATCH EDUCATION BUILDING WOOD CEILING), PERFORATION: ROUND STRAIGHT (W2), LOCATION: ATRIUM
- WD 2 — MFR: MARSHFIELD, SPECIES: FSC CERTIFIED WHITE MAPLE, FINISH: QUARTER SLICED, SLIP MATCHED, CENTER BALANCED, CLEAR FINISH (MATCH EDUCATION BUILDING), LOCATION: DOOR

MDF

- MDF 1 — MFR: INTERLAM, STYLE: VALCHROMAT, COLOR: BLACK, THICKNESS: 3/4" (19 MM), LOCATION: ACCENT WALL

WINDOW SHADES

- WS 1 — MFR: MECHOSHADE, PRODUCT: THERMOVEIL 1300 SERIES 5%, COLOR: SILVER BIRCH #1319, LOCATION: TYPICAL WINDOW, UON
- WS 2 — MFR: MECHOSHADE, PRODUCT: EQUINOX BLACKOUT 0100 SERIES, COLOR: SILVER #0105, LOCATION: DEBRIEFING ROOMS, SIMULATION ROOMS & PATIENT ROOMS

WALLCOVERING

- WC 1 — MFR: CARNEGIE, SERIES: XOREL, PATTERN: NEXUS 417, LOCATION: FABRIC WRAPPED ACOUSTICAL PANEL IN DEBRIEFING ROOMS
- WC 2 — MFR: KOROSEAL, SERIES: KASHI, PATTERN: INCENSE STICK 7621-02, LOCATION: FABRIC WRAPPED ACOUSTICAL PANEL IN LARGE SIMULATION ROOM, PATIENT ROOMS & CLINIC ROOM.

WALK OFF MAT

- WM 1 — MFR: CONSTRUCTION SPECIALITES (C-S GROUP), SERIES: PEDIMAT, TYPE: PEDIMAT M1 - ALUMINUM TAPERED ANGLE FRAME, LOCATION: FRONT ENTRY

GENERAL NOTES

1. ALL EXPLOSED SURFACES TO BE PAINTED
2. COLOR: P-1, U.N.O.
3. VERIFY EXISTING FLOOR TILE PATTERN TO MATCH NEW FLOOR TILE AT ATRIUM.

KEY NOTES

LEGEND

PROJECT NORTH
TRUE NORTH

ISSUE FOR BID

Revisions	Date
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CONSULTANTS:

Seals and Signatures

ARCHITECT/ENGINEERS:

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St. Louis ■ San Francisco ■ Shanghai ■ Toronto
Vancouver ■ Victoria ■ Washington DC

Drawing Title: LEVEL 1 INTERIOR FINISH PLAN

Approved: Project Director
Approver

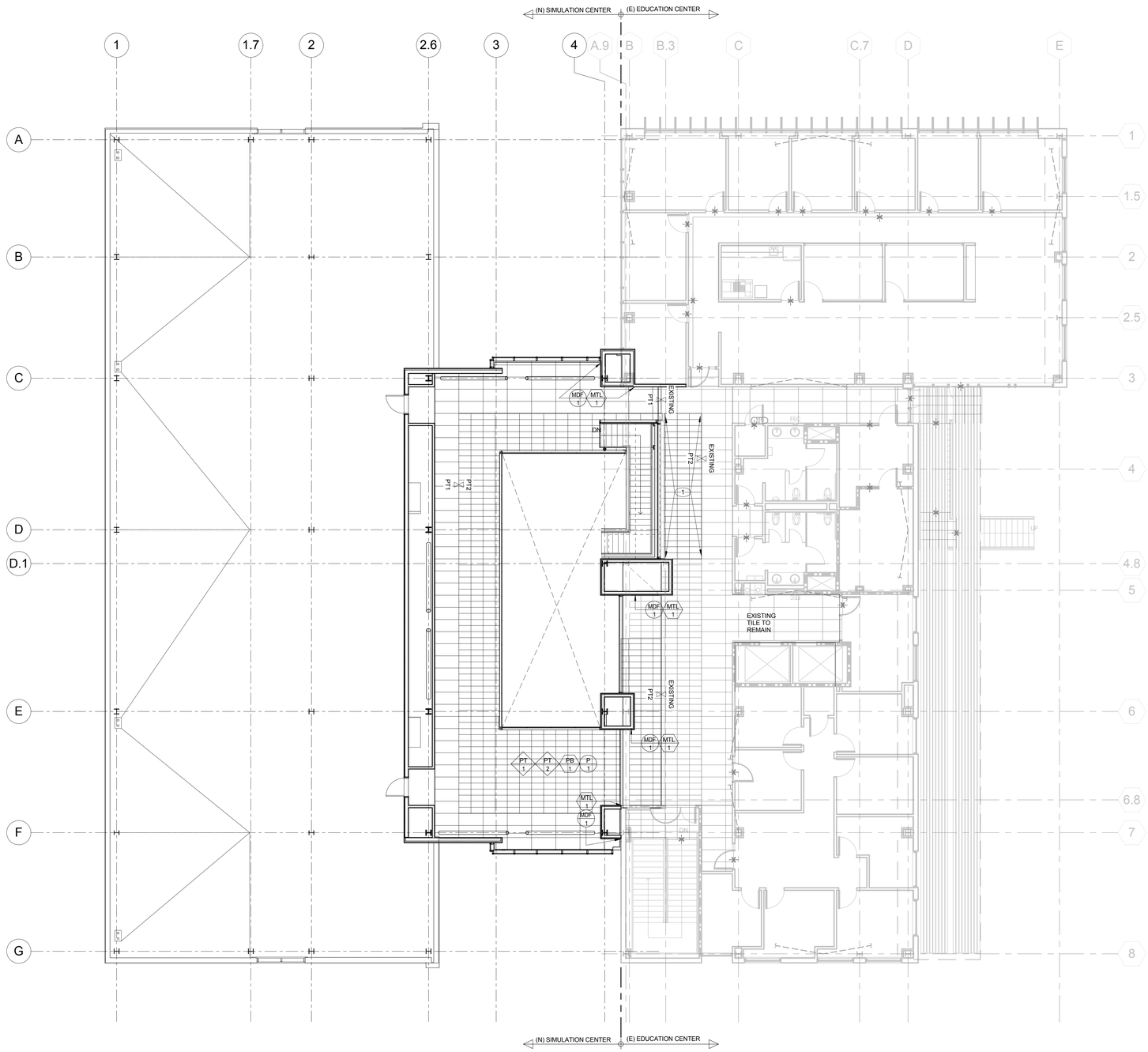
Project Title: VA SIMULATION CENTER

Location: Veterans Affairs Palo Alto Heath Care System, 3801 Miranda Ave,Palo Alto, CA 94304

Date: JUNE 14, 2013 | Checked: CW | Drawn: WK

VA Project Number: 640-385
Building Number: 105
Drawing No. A1201

VA PAHCS Veterans Affairs Palo Alto Health Care System
Department of Veterans Affairs



1 LEVEL 2 FINISH PLAN
1/8" = 1'-0"

FINISH LEGEND

CARPET

- C 1 — CARPET TILE, MFR: SHAW CONTRACT, STYLE: GLITZ 59360, COLOR: EDAMAME, COLOR #: 60309
- C 2 — CARPET TILE, MFR: SHAW CONTRACT, STYLE: RADIANCE 59361, COLOR: EDAMAME, COLOR #: 60309

PORCELAIN TILE

- PT 1 — MFR: ROCA TILE GROUP, PRODUCT: PACKSTONE, COLOR: ARENA, DIMENSIONS: 24"X48", GROUT: HYDROMENT FLASH WALNUT H141, LOCATION: LOBBY
- PT 2 — MFR: ROCA TILE GROUP, PRODUCT: PACKSTONE, COLOR: BAMBOO, DIMENSIONS: 12"X24", GROUT: HYDROMENT FLASH WALNUT H141, LOCATION: LOBBY
- PT 3 — MFR: ROCA TILE GROUP, PRODUCT: NORWAY, COLOR: ARCE, DIMENSIONS: 8"X26", GROUT: HYDROMENT FLASH WALNUT H141, LOCATION: RESTROOM

RESILIENT SHEET FLOORING

- RSF 1 — MFR: ARMSTRONG, SERIES: MEDINTONE SHEET, COLOR: NATURAL H8312, LOCATION: VINYL SHEET FLOOR-SIMLATION ROOM AND ALL CLINICICAL AREA
- RSF 2 — MFR: ARMSTRONG, SERIES: REJUVENATIONS SHEET, PATTERN: AMBIGU ALCHEMY 38063, COLOR: GINGER, LOCATION: VINYL SHEET FLOOR- CORRIDOR

SEALED CONCRETE

- SC

WOOD FLOORING

- WD 1 — MFR: ARMSTRONG, ITEM NUMBER: ESR9240 NATURAL, SPECIES: MAPLE, FORM: PLANK, SIZE: 48"X 5" X 3/8" THK, LOCATION: ATRIUM - WAITING

BASE

- RB 1 — 6" RESILIENT BASE, JOHNSONITE 179 STEEL
- RB 2 — 6" RESILIENT SHEET FLOORING COVE BASE, MFR: ARMSTRONG, SERIES: MATCH FLOOR
- PB 1 — 6" PORCELAIN TILE BASE, MFR: ROCA TILE GROUP, PRODUCT: PACKSTONE, COLOR: ARENA, DIMENSIONS: 6" HIGH
- PB 2 — 6" PORCELAIN TILE BASE, MFR: UNITED STATES CERAMIC TILE, COLOR: BISCUIT, DIMENSIONS: 6" X 6"
- MTL 1 — 6" PAINTED STEEL BASE, 1/8" THK STEE PLATE, COLOR : PT-4

CERAMIC WALL TILE

- CWT 1 — MFR: UNITED STATES CERAMIC TILE, COLOR: BISCUIT, DIMENSIONS: 3" X 6", GROUT: HYDROMENT DELOREAN GRAY H160, LOCATION: RESTROOM

PAINT

- P 1 — MFR: KELLY-MOORE, COLOR: PRISTINE LINEN OW228-1, FINISH: EGGSHELL, LOCATION: GENERAL WHITE
- P 2 — MFR: BENJAMIN MOORE, COLOR: MOONSHINE 2140-60, FINISH: EGGSHELL, LOCATION: ACCENT
- P 3 — MFR: KELLY-MOORE, COLOR: PORTSMOUTH OLIVE KM 3405-2, FINISH: EGGSHELL, LOCATION: ACCENT
- P 4 — MFR: KELLY-MOORE, COLOR: OPENING NIGHT KM 3832-5, FINISH: SEMI-GLOSS, LOCATION: MTL WALL BASE
- P 5 — MFR: KELLY-MOORE, COLOR: DUNGEON AC259-5, FINISH: SEMI-GLOSS, LOCATION: BEHIND WALL OF PERFORATED WOOD WALL PANEL (WD-1)

PLASTIC LAMINATE

- PL 1 — MFR: WILSONART, COLOR: FUSION MAPLE 7909-60, LOCATION: CASEWORK

SOLID SURFACE

- SS 1 — MFR: CORIAN, COLOR: WHISPER, LOCATION: COUNTERTOP, TYPICAL
- SS 2 — MFR: CORIAN, COLOR: MEDEA, LOCATION: RECEPTION DESK COUNTERTOP
- SS 3 — MFR: 3FORM, STYLE: STONE SERIES -TRACE BONE, FINISH: POLISHED, THICKNESS: 3/8", LOCATION: RECEPTION DESK CASEWORK

WOOD

- WD 1 — MFR: ARMSTRONG, SERIES: WOODWORK WALL PANEL, SPECIES: NATURAL MAPLE (MATCH EDUCATION BUILDING WOOD CEILING) PERFORATION: ROUND STRAIGHT (W2), LOCATION: ATRIUM
- WD 2 — MFR: MARSHFIELD, SPECIES: FSC CERTIFIED WHITE MAPLE, FINISH: QUARTER SLICED, SLIP MATCHED, CENTER BALANCED, CLEAR FINISH (MATCH EDUCATION BUILDING), LOCATION: DOOR

MDF

- MDF 1 — MFR: INTERLAM, STYLE: VALCHROMAT, COLOR: BLACK, THICKNESS: 3/4" (19 MM), LOCATION: ACCENT WALL

WINDOW SHADES

- WS 1 — MFR: MECHOSHADE, PRODUCT: THERMOVEIL 1300 SERIES 5% COLOR: SILVER BIRCH #1319, LOCATION: TYPICAL WINDOW, UON
- WS 2 — MFR: MECHOSHADE, PRODUCT: EQUINOX BLACKOUT 0100 SERIES, COLOR: SILVER #0105, LOCATION: DEBRIEFING ROOMS, SIMULATION ROOMS & PATIENT ROOMS

WALLCOVERING

- WC 1 — MFR: CARNEGIE, SERIES: XOREL, PATTERN: NEXUS 417, LOCATION: FABRIC WRAPPED ACOUSTICAL PANEL IN DEBRIEFING ROOMS
- WC 2 — MFR: KOROSEAL, SERIES: KASHI, PATTERN: INCENSE STICK 7621-02, LOCATION: FABRIC WRAPPED ACOUSTICAL PANEL IN LARGE SIMULATION ROOM, PATIENT ROOMS & CLINIC ROOM.

WALK OFF MAT

- WM 1 — MFR: CONSTRUCTION SPECIALITES (C-S GROUP), SERIES: PEDIMAT, TYPE: PEDIMAT M1 - ALUMINUM TAPERED ANGLE FRAME, LOCATION: FRONT ENTRY

GENERAL NOTES

1. ALL EXPLOSED SURFACES TO BE PAINTED
2. COLOR: P-1, U.N.O.
3. VERIFY EXISTING FLOOR TILE PATTERN TO MATCH NEW FLOOR TILE AT ATRIUM.

KEY NOTES

1. DEMO EXISTING PT1 AND INSTALL NEW PT 2
2. DEMO EXISTING PT2 AND INSTALL NEW PT 1

LEGEND

ISSUE FOR BID

Revisions	Date
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CONSULTANTS:

Seals and Signatures

ARCHITECT/ENGINEERS:

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Houston ■ Los Angeles ■ Mumbai ■ New York ■ Phoenix
St. Louis ■ San Francisco ■ Shanghai ■ Toronto
Vancouver ■ Victoria ■ Washington DC

Drawing Title: LEVEL 2 INTERIOR FINISH PLAN

Approved: Project Director
Approver

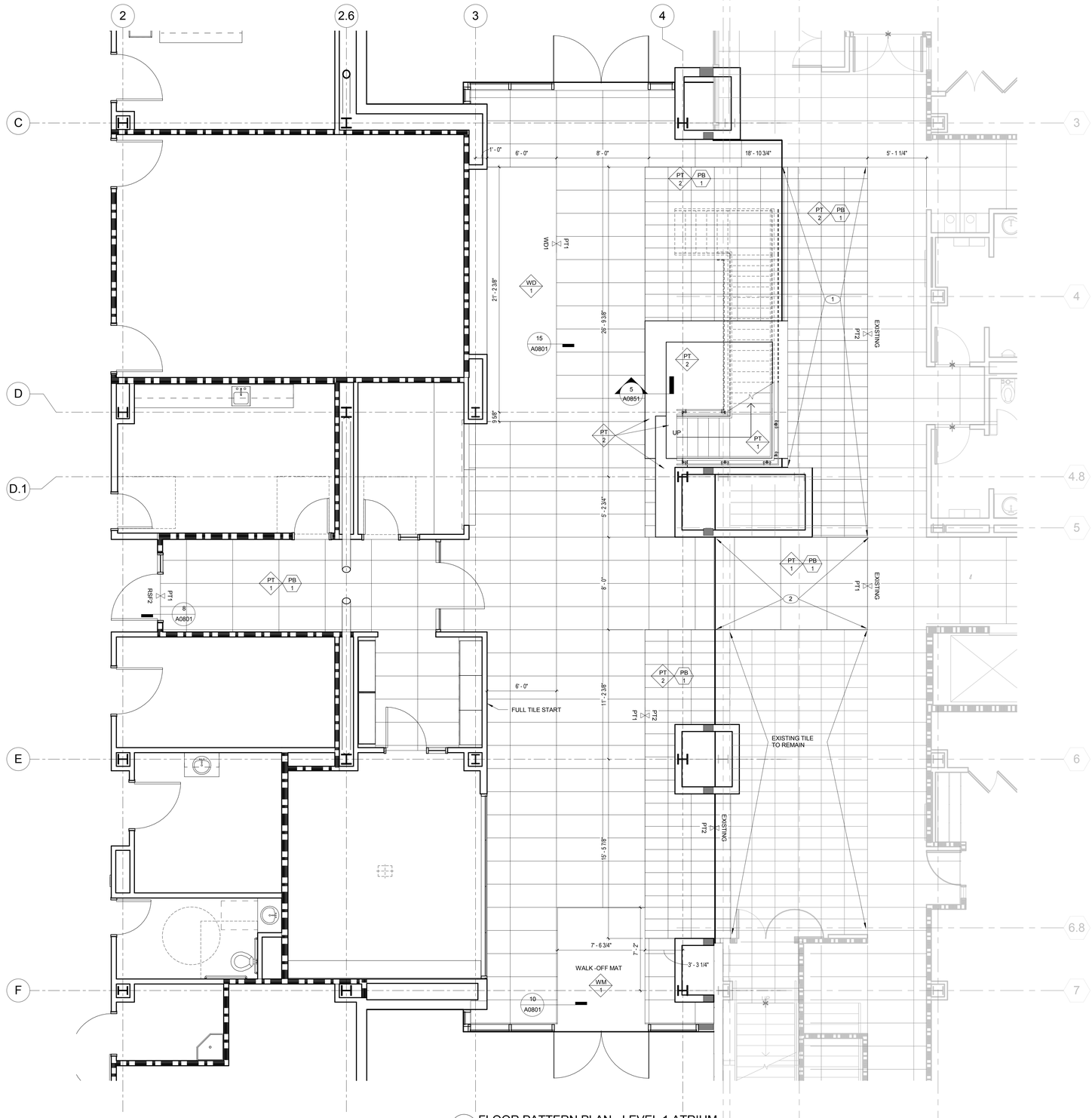
Project Title: VA SIMULATION CENTER

Location: Veterans Affairs Palo Alto Heath Care System, 3801 Miranda Ave,Palo Alto, CA 94304

Date: JUNE 14, 2013 | Checked: CW | Drawn: WK

VA Project Number: 640-385
Building Number: 105
Drawing No. A1202

VA PAHCS Veterans Affairs Palo Alto Health Care System
Department of Veterans Affairs



1 FLOOR PATTERN PLAN - LEVEL 1 ATRIUM
1/4" = 1'-0"

FINISH LEGEND

CARPET

C 1 — CARPET TILE
MFR: SHAW CONTRACT
STYLE: GLITZ 59360
COLOR: EDAMAME
COLOR #: 60309

C 2 — CARPET TILE
MFR: SHAW CONTRACT
STYLE: RADIANCE 59361
COLOR: EDAMAME
COLOR #: 60309

PORCELAIN TILE

PT 1 — MFR: ROCA TILE GROUP
PRODUCT: PACKSTONE
COLOR: ARENA
DIMENSIONS: 24"X48"
GROUT: HYDROMENT FLASH WALNUT H141
LOCATION: LOBBY

PT 2 — MFR: ROCA TILE GROUP
PRODUCT: PACKSTONE
COLOR: BAMBOO
DIMENSIONS: 12"X24"
GROUT: HYDROMENT FLASH WALNUT H141
LOCATION: LOBBY

PT 3 — MFR: ROCA TILE GROUP
PRODUCT: NORWAY
COLOR: ARCE
DIMENSIONS: 6"X26"
GROUT: HYDROMENT FLASH WALNUT H141
LOCATION: RESTROOM

RESILIENT SHEET FLOORING

RSF 1 — MFR: ARMSTRONG
SERIES: MEDINTONE SHEET
COLOR: NATURAL H8312
LOCATION: VINYL SHEET FLOOR-SIMULATION ROOM AND ALL CLINICICAL AREA

RSF 2 — MFR: ARMSTRONG
SERIES: REJUVENATIONS SHEET
PATTERN: AMBIGU ALCHEMY 38063
COLOR: GINGER
LOCATION: VINYL SHEET FLOOR- CORRIDOR

SEALED CONCRETE

SC -

WOOD FLOORING

WD 1 — MFR: ARMSTRONG
ITEM NUMBER: ESP5240 NATURAL
SPECIES: MAPLE
FORM: PLANK
SIZE: 48"X 5" X 3/8" THK
LOCATION: ATRIUM - WAITING

BASE

RB 1 — 6" RESILIENT BASE
JOHNSONITE 179 STEEL

RB 2 — 6" RESILIENT SHEET FLOORING COVE BASE
MFR: ARMSTRONG
SERIES: MATCH FLOOR

PB 1 — 6" PORCELAIN TILE BASE
MFR: ROCA TILE GROUP
PRODUCT: PACKSTONE
COLOR: ARENA
DIMENSIONS: 6" HIGH

PB 2 — 6" PORCELAIN TILE BASE
MFR: UNITED STATES CERAMIC TILE
COLOR: BISCUIT
DIMENSIONS: 6" X 6"

MTL 1 — 6" PAINTED STEEL BASE
1/8" THK STEE PLATE
COLOR : PT-4

CERAMIC WALL TILE

CWT 1 — MFR: UNITED STATES CERAMIC TILE
COLOR: BISCUIT
DIMENSIONS: 3" X 6"
GROUT: HYDROMENT DELOREAN GRAY H160
LOCATION: RESTROOM

PAINT

P 1 — MFR: KELLY-MOORE
COLOR: PRISTINE LINEN OW228-1
FINISH: EGGSHELL
LOCATION: GENERAL WHITE

P 2 — MFR: BENJAMIN MOORE
COLOR: MOONSHINE 2140-60
FINISH: EGGSHELL
LOCATION: ACCENT

P 3 — MFR: KELLY-MOORE
COLOR: PORTSMOUTH OLIVE KM 3405-2
FINISH: EGGSHELL
LOCATION: ACCENT

P 4 — MFR: KELLY-MOORE
COLOR: OPENING NIGHT KM 3832-5
FINISH: SEMI-GLOSS
LOCATION: MTL WALL BASE

P 5 — MFR: KELLY-MOORE
COLOR: DUNGEON AC259-5
FINISH: SEMI-GLOSS
LOCATION: BEHIND WALL OF PERFORATED WOOD WALL PANEL (WD-1)

PLASTIC LAMINATE

PL 1 — MFR: WILSONART
COLOR: FUSION MAPLE 7909-60
LOCATION: CASEWORK

SOLID SURFACE

SS 1 — MFR: CORIAN
COLOR: WHISPER
LOCATION: COUNTERTOP, TYPICAL

SS 2 — MFR: CORIAN
COLOR: MEDEA
LOCATION: RECEPTION DESK COUNTERTOP

SS 3 — MFR: 3FORM
STYLE: STONE SERIES -TRACE BONE
FINISH: POLISHED
THICKNESS: 3/8"
LOCATION: RECEPTION DESK CASEWORK

WOOD

WD 1 — MFR: ARMSTRONG
SERIES: WOODWORK WALL PANEL
SPECIES: NATURAL MAPLE (MATCH EDUCATION BUILDING WOOD CEILING)
PERFORATION: ROUND STRAIGHT (W2)
LOCATION: ATRIUM

WD 2 — MFR: MARSHFIELD
SPECIES: FSC CERTIFIED WHITE MAPLE
FINISH: QUARTER SLICED, SLIP MATCHED, CENTER BALANCED, CLEAR FINISH (MATCH EDUCATION BUILDING)
LOCATION: DOOR

MDF

MDF 1 — MFR: INTERLAM
STYLE: VALCHROMAT
COLOR: BLACK
THICKNESS: 3/4" (19 MM)
LOCATION: ACCENT WALL

WINDOW SHADES

WS 1 — MFR: MECHOSHADE
PRODUCT: THERMOVEIL 1300 SERIES 5%
COLOR: SILVER BIRCH #1319
LOCATION: TYPICAL WINDOW, UON

WS 2 — MFR: MECHOSHADE
PRODUCT: EQUINOX BLACKOUT 0100 SERIES
COLOR: SILVER #0105
LOCATION: DEBRIEFING ROOMS, SIMULATION ROOMS & PATIENT ROOMS

WALLCOVERING

WC 1 — MFR: CARNEGIE
SERIES: XOREL
PATTERN: NEXUS 417
LOCATION: FABRIC WRAPPED ACOUSTICAL PANEL IN DEBRIEFING ROOMS

WC 2 — MFR: KOROSEAL
SERIES: KASHI
PATTERN: INCENSE STICK 7621-02
LOCATION: FABRIC WRAPPED ACOUSTICAL PANEL IN LARGE SIMULATION ROOM, PATIENT ROOMS & CLINIC ROOM.

WALK OFF MAT

WM 1 — MFR: CONSTRUCTION SPECIALITES (C-S GROUP)
SERIES: PEDIMAT
TYPE: PEDIMAT M1 - ALUMINUM TAPERED ANGLE FRAME
LOCATION: FRONT ENTRY

GENERAL NOTES

1. ALL EXPLOSED SURFACES TO BE PAINTED
2. COLOR: P-1, U.N.O.
3. VERIFY EXISTING FLOOR TILE PATTERN TO MATCH NEW FLOOR TILE AT ATRIUM.

KEY NOTES

1. DEMO EXISTING PT1 AND INSTALL NEW PT 2
2. DEMO EXISTING PT2 AND INSTALL NEW PT 1

LEGEND

PROJECT NORTH
TRUE NORTH

ISSUE FOR BID

Revisions	Date
9	
8	
7	
6	
5	
4	
3	
2	
1	

CONSULTANTS:

Seals and Signatures

ARCHITECT/ENGINEERS:

CANNONDESIGN
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Vancouver ■ Victoria ■ Washington DC

Drawing Title: FLOOR PATTERN PLAN - LEVEL 1 ATRIUM

Approved: Project Director
Approver

Project Title: VA SIMULATION CENTER

Location: Veterans Affairs Palo Alto Heath Care System, 3801 Miranda Ave,Palo Alto, CA 94304

Date: JUNE 14, 2013 | Checked: CW | Drawn: WK

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ABBREVIATIONS

A/C	AIR CONDITIONING
A/E	ARCHITECT/ENGINEER
AAV	AUTOMATIC AIR VENT (VALVE)
ABV	ABOVE
ACCU	AIR-COOLED CONDENSING UNIT
ACH	AIR CHANGES PER HOUR
ACU	AIR CURTAIN
AD	ACCESS DOOR
AF	AIR FOIL FAN
AFF	ABOVE FINISHED FLOOR
AFMS	AIR FLOW MEASURING STATION
AHU	AIR HANDLING UNIT
ALT	ALTERNATE
ALUM	ALUMINUM
AMP	AMPERE
AP	ACCESS PANEL
APD	AIR PRESSURE DROP
APPROX	APPROXIMATE
ARCH	ARCHITECT/ARCHITECTURAL
AS	AIR SEPARATOR
AUTO	AUTOMATIC
AVG	AVERAGE
AWT	AVERAGE WATER TEMPERATURE
AXF	AXIAL FAN
BB	BASEBOARD RADIATION
BDD	BACK DRAFT DAMPER
BF	BOILER FEED WATER
BG	BOTTOM GRILLE (3"-12" ABOVE FLOOR)
BHP	BRAKE HORSEPOWER
BLDG	BUILDING
BMS	BUILDING MANAGEMENT SYSTEM
BOD	BOTTOM OF DUCT
BR	BOTTOM REGISTER (3"-12" ABOVE FLOOR)
BSMT	BASEMENT
BTU	BRITISH THERMAL UNIT
BTUH	BRITISH THERMAL UNIT PER HOUR
CA	COMPRESSED AIR
CAP	CAPACITY
CC	COOLING COIL
CCW	COUNTER CLOCKWISE
CD	CONDENSATE DRAIN
CENTRIF	CENTRIFUGAL
CF	CUBIC FEET
CFH	CUBIC FEET PER HOUR
CFM	CUBIC FEET PER MINUTE
CH	CABINET HEATER
CHR	CHILLER
CHWR	CHILLED WATER RETURN
CHWS	CHILLED WATER SUPPLY
CI	CAST IRON
CL	CENTER LINE
CLG	COOLING
CO	CLEAN OUT
CO2	CARBON DIOXIDE
COMP	COMPRESSOR
CONC	CONCRETE
CONN	CONNECTION
CONST	CONSTRUCTION
CONT	CONTINUOUS, CONTINUATION
CONTR	CONTRACTOR
CONV	CONVECTOR
CP	CONTROL PANEL
CT	COOLING TOWER
CU	CONDENSING/ER UNIT
CU FT	CUBIC FEET
CV	CONSTANT VOLUME
CWR	CONDENSER WATER RETURN
CWS	CONDENSER WATER SUPPLY
D	DRAIN OR DRYER
DB	DECIBEL, OR DRY BULB TEMPERATURE
DDC	DIRECT DIGITAL CONTROL
DEG.F	DEGREE FAHRENHEIT
DEMO	DEMOLISH
DG	DOOR GRILLE
DIA	DIAMETER
DIAG	DIAGONAL
DIFF	DIFFUSER
DIM	DIMENSION
DISCH	DISCHARGE
DN	DOWN
DP	DIFFERENTIAL PRESSURE
DPDT	DOUBLE POLE, DOUBLE THROW
DPST	DOUBLE POLE, SINGLE THROW
DTR	DUAL TEMPERATURE RETURN
DTS	DUAL TEMPERATURE SUPPLY
DWDI	DOUBLE WIDTH, DOUBLE INLET
DWG	DRAWING
DX	DIRECT EXPANSION
E/P	ELECTRIC-PNEUMATIC
EA	EXHAUST AIR
EAT	ENTERING AIR TEMPERATURE
EBB	ELECTRIC BASEBOARD HEATER
EC	EXPANSION COMPENSATOR/JOINT
ECWR	EQUIPMENT COOLING WATER RETURN
ECWS	EQUIPMENT COOLING WATER SUPPLY
EDB	ENTERING DRY BULB TEMPERATURE
EER	ENERGY EFFICIENCY RATIO
EF	EXHAUST FAN
EFF	EFFICIENCY
EHC	ELECTRIC HEATING COIL
EL/ELEV	ELEVATION
ELEC	ELECTRIC/ELECTRICAL
ELEM	ELEMENT
ELEV	ELEVATOR
EMD	END OF MAIN DRIP (STEAM)
EMER	EMERGENCY
ENG	ENGINEER
ENT	ENTERING
ERP	ELECTRIC RADIANT PANEL
ESP	EXTERNAL STATIC PRESSURE
EST	ESTIMATE
ET	EXPANSION TANK
ETO	ETHYLENE OXIDE
EUH	ELECTRIC UNIT HEATER
EVAP	EVAPORATOR
EWB	ENTERING WET BULB TEMPERATURE
EWT	ENTERING WATER TEMPERATURE
EXH	EXHAUST
EXIST	EXISTING
EXT	EXTERNAL
F	FAHRENHEIT
F&T	FLOAT & THERMOSTATIC STEAM TRAP
F.D.	FLOOR DRAIN
FA	FREE AREA
FC	FORWARD CURVED
FCU	FAN COIL UNIT
FD	FIRE DAMPER
FF	FINAL FILTER
FH	FUME HOOD
FLA	FULL LOAD AMPERES
FLEX	FLEXIBLE
FLR	FLOOR
FLT	FLASH TANK
FM	FLOW METER
FOG	FUEL OIL GAUGE
FOR	FUEL OIL RETURN
FOS	FUEL OIL SUPPLY
FOV	FUEL OIL VENT
FP	FIRE PROTECTION
FPB	FAN POWERED TERMINAL UNIT
FPM	FEET PER MINUTE
FPS	FEET PER SECOND
FR	FINNED RADIATION
FSTAT	FREEZESTAT
FT	FEET
FV	FACE VELOCITY
G	NATURAL GAS
GA	GAUGE
GAL	GALLON
GCWR	GEOTHERMAL CONDENSER WATER RETURN
GCWS	GEOTHERMAL CONDENSER WATER SUPPLY
GD	GRAVITY DAMPER
GPH	GALLONS PER HOUR
GPM	GALLONS PER MINUTE
GR	GLYCOL RETURN
GRL	GRILLE
GRV	GRAVITY RELIEF VENT
GS	GLYCOL SUPPLY
GV	GRAVITY VENTILOR OR NATURAL GAS VENT
H	HUMIDISTAT OR HUMIDIFIER
HC	HEATING COIL
HEPA	HIGH EFFICIENCY PARTICULATE AIR FILTER
HG	HOT GAS
HL	HIGH LIMIT
HORIZ	HORIZONTAL
HP	HORSEPOWER OR HEAT PUMP
HPR	HIGH PRESSURE CONDENSATE RETURN
HPS	HIGH PRESSURE STEAM
HR	HOUR
HRC	HEAT RECOVERY COIL
HT	HEIGHT
HTG	HEATING
HTWR	HIGH TEMPERATURE WATER RETURN
HTWS	HIGH TEMPERATURE WATER SUPPLY
HUM	HUMIDIFIER
HVAC	HEAT, VENTILATION, & AIR CONDITIONING
HVU	HEATING & VENTILATING UNIT
HWR	HOT WATER RETURN
HWS	HOT WATER SUPPLY
HX	HEAT EXCHANGER
HZ	HERTZ
ID	INSIDE DIAMETER
IN OR "	INCHES
IN W.C.	INCHES WATER COLUMN
IN W.G.	INCHES WATER GAUGE
INSUL	INSULATION
INT	INTERNAL
KW	KILOWATT
KWH	KILOWATT HOUR
LAT	LEAVING AIR TEMPERATURE
LBS	POUNDS
LDB	LEAVING DRY BULB TEMPERATURE
LF	LINEAR FEET
LPG	LIQUID PETROLEUM GAS
LPR	LOW PRESSURE CONDENSATE RETURN
LPS	LOW PRESSURE STEAM
LRA	LOCKED ROTOR AMPERES
LVG	LEAVING
LVR	LOUVER
LWB	LEAVING WET BULB TEMPERATURE
LWT	LEAVING WATER TEMPERATURE
M	MOTOR OPERATOR
MAINT	MAINTENANCE
MAU	MAKE-UP AIR UNIT
MAX	MAXIMUM
MBH	THOUSAND BTU PER HOUR
MCC	MOTOR CONTROL CENTER
MECH	MECHANICAL
MERV	MINIMUM EFFICIENCY REPORTING VALUE
MEZZ	MEZZANINE
MFR	MANUFACTURER
MIN	MINIMUM
MISC	MISCELLANEOUS
MPR	MEDIUM PRESSURE CONDENSATE RETURN
MPS	MEDIUM PRESSURE STEAM
MTD	MOUNTED
N.C.	NORMALLY CLOSED
N.O.	NORMALLY OPEN
NC	NOISE CRITERIA
NIC	NOT IN CONTRACT
NO. OR #	NUMBER
NR	NOT REQUIRED
NTS	NOT TO SCALE
NV	NATURAL VENTILATION
OA	OUTSIDE AIR
OAI	OUTSIDE AIR INTAKE
OBD	OPPOSED BLADE DAMPER
OED	OPEN END DUCT
OFCI	OWNER FURNISHED/CONTRACTOR INSTALLED
OFOI	OWNER FURNISHED/OWNER INSTALLED
OH	OVERHEAD
OPNG	OPENING
ΔP/DP	DIFFERENTIAL PRESSURE
P	PUMP
P/E	PNEUMATIC-ELECTRIC SWITCH
PA	PASCAL
PCD	PUMPED CONDENSATE DISCHARGE/RETURN
PCF	POUNDS PER CUBIC FOOT
PCWR	PROCESSED CHILLED WATER RETURN
PCWS	PROCESSED CHILLED WATER SUPPLY
PD	PRESSURE DROP
PF	PROPELLER FAN
PG	PRESSURE GAUGE
PH	PHASE
PLBG	PLUMBING
PRESS	PRESSURE
PROP	PROPELLER
PRV	PRESSURE REDUCING VALVE
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PSIA	POUNDS PER SQUARE IN ABSOLUTE
PSIG	POUNDS PER SQUARE IN GAUGE
QTY	QUANTITY
R	RETURN
RA	RETURN AIR
RAD	RADIATION
RAF	RETURN AIR FAN
RHC	REHEAT COIL
REBAL	REBALANCE
REG	REGISTER
REV	REVISED
RH	RELATIVE HUMIDITY
RHG	REFRIGERANT HOT GAS
RL	REFRIGERANT LIQUID
RM	ROOM
RO	RELIEF OPENING
RP	RADIANT PANEL
RPM	REVOLUTIONS PER MINUTE
RS	REFRIGERANT SUCTION
RTU	ROOF TOP UNIT
RV	REFRIGERANT VENT OR RELIEF VALVE (VENT)
S/W	SUMMER-WINTER
SA	SUPPLY AIR OR SOUND ATTENUATOR
SCR	SILICON CONTROLLED RECTIFIER
SD	SMOKE DETECTOR
SENS	SENSIBLE LOAD
SF	SMOKE-FIRE DAMPER
SHT	SHEET
SM	SMOKE DAMPER
SOL	SOLENOID
SP	STATIC PRESSURE
SQ	SQUARE
SQ. FT.	SQUARE FEET
SS	STAINLESS STEEL
STD	STANDARD
STL	STEEL
STM	STEAM
STRUC	STRUCTURE/STRUCTURAL
SWSI	SINGLE WIDTH, SINGLE INLET
3SF	3 HOUR SMOKE FIRE DAMPER
TC	TEMPERATURE CONTROL
TD	TRANSFER DUCT
TEMP	TEMPERATURE
TL	TOTAL LOAD
TO	TRANSFER OPENING
TSP	TOTAL STATIC PRESSURE
TSTAT	THERMOSTAT
TU	TERMINAL UNIT
TYP	TYPICAL
UGRD	UNDERGROUND
UH	UNIT HEATER (HYDRONIC OR STEAM)
UNO	UNLESS NOTED OTHERWISE
UPS	UNINTERUPTIBLE POWER SUPPLY
UV	UNIT VENTILATOR
V	VOLT OR VENT
VAV	VARIABLE AIR VOLUME
VD	VOLUME DAMPER
VEL	VELOCITY
VERT	VERTICAL
VI	VIBRATION ISOLATION
VIF	VERIFY IN FIELD
VOL	VOLUME
VR	VACUUM RETURN
VRV	VARIABLE REFRIGERANT VOLUME
VSD	VARIABLE SPEED DRIVE
VTR	VENT THROUGH ROOF
W	WATT
W.G.	WATER GAGE
W/	WITH
W/O	WITHOUT
WB	WET BULB TEMPERATURE
WC	WATER COLUMN
WMS	WIRE MESH SCREEN
WPD	WATER PRESSURE DROP
WT	WEIGHT
WTR	WATER

SYMBOLS

- SUPPLY DUCT RISE
- RETURN DUCT RISE
- EXHAUST DUCT RISE
- SUPPLY DUCT DROP
- RETURN DUCT DROP
- EXHAUST DUCT DROP
- CAPPED DUCTWORK
- DN — DUCT OFF-SET DN (IN DIRECTION OF FLOW)
- UP — DUCT OFF-SET UP (IN DIRECTION OF FLOW)
- 24x12 — RECTANGULAR DUCT DIMENSIONS (SIZE IN INCHES, FIRST DIMENSION IS SHOWN)
- 24"Ø — ROUND DUCT DIMENSIONS (DIAMETER)
- 24x12 OV — OVAL DUCT DIMENSIONS (SIZE IN INCHES, FIRST DIMENSION IS SHOWN)
- CAPPED PIPING OR SINGLE DUCTWORK
- SINGLE LINE SUPPLY DUCT
- SINGLE LINE RETURN DUCT
- SINGLE LINE EXHAUST DUCT
- EXISTING SINGLE LINE DUCT
- EXISTING ITEM TO BE REMOVED
- SINGLE LINE DUCT RISE OR DROP
- ELBOW WITH TURNING VANES
- OR — FLEXIBLE DUCT
- OR — OPPOSED BLADE VOLUME DAMPERS
- VOLUME DAMPER
- FD,SF, OR SM — FIRE, SMOKE/FIRE, OR SMOKE DAMPER IN RISER
- FIRE, SMOKE/FIRE, OR SMOKE DAMPER
- FD,SF, OR SM
- M — MOTORIZED DAMPER
- BDD — BACKDRAFT DAMPER
- T — TEMPERATURE SENSOR (IN DUCT OR PIPE)
- RECTANGULAR WYE DUCT FITTING
- POINT OF CONNECTION (NEW TO EXISTING)
- NEW HVAC PIPE
- EXISTING HVAC PIPE
- EXISTING HVAC PIPE TO BE REMOVED
- PIPE ELBOW DOWN
- PIPE ELBOW UP
- PIPE RISE OR DROP
- PIPE BOTTOM DROP
- *Ø — ROUND (DIAMETER)
- CONTROL VALVE (2-WAY)
- CONTROL VALVE (3-WAY)
- CHECK VALVE (SHOWN W/FLOW)
- BALANCING VALVE
- SOLENOID VALVE
- PRESSURE REDUCING VALVE
- SAFETY/RELIEF VALVE
- VALVE
- UNION
- HOSE DRAIN VALVE WITH CAP
- MANUAL AIR VENT
- CO — CLEANOUT (CO)
- PRESSURE/TEMPERATURE TEST PORT
- EXPANSION JOINT
- EXPANSION LOOP
- FM — STRAINER W/BLOWDOWN VALVE
- FM — PIPING FLOW METER
- TP — TRAP
- OR — FLEXIBLE CONNECTION
- PIPE GUIDE
- DIRECTION OF FLOW
- PIPE ANCHOR
- OR — PUMP
- E — ELECTRICAL CONNECTION (BY DIVISION 23)
- 26 — ELECTRICAL CONNECTION (BY DIVISION 26)
- SENSING ELEMENT - AIR STREAM
- SENSING ELEMENT - LIQUID SEPARABLE WELL
- T — TEMPERATURE SENSOR
- T — THERMOSTAT WITH LOCKING COVER
- H — HUMIDITY SENSOR
- S — SWITCH
- OS — OCCUPANCY SENSOR
- PB — PUSH BUTTON
- CO_2 — CARBON DIOXIDE SENSOR
- O_2 — OXYGEN SENSOR
- FS — FLOW SWITCH
- P — PRESSURE GAGE
- R — RELAY
- F — FREEZESTAT
- P/E — PNEUMATIC-ELECTRIC SWITCH
- E/P — ELECTRIC-PNEUMATIC SWITCH
- G — PILOT LIGHT- LETTER INDICATES COLOR: G - GREEN, Y - YELLOW, R - RED
- VSD — VARIABLE SPEED DRIVE
- FIRE — FIRESTAT
- SMOKE — SMOKE DETECTOR
- AIT — ANALOG INPUT, TEMPERATURE
- AIP — ANALOG INPUT, PRESSURE
- AIF — ANALOG INPUT, FLOW
- AI — ANALOG INPUT
- AO — ANALOG OUTPUT
- DO — DIGITAL OUTPUT
- DI — DIGITAL INPUT
- AOP — ANALOG OUTPUT, PNEUMATIC
- ROOM PRESSURIZATION MONITOR
- D — DUCT SMOKE DETECTOR
- FM — AIR FLOW MEASURING STATION
- CS — CURRENT SENSOR
- AUTO, ON, OFF — STARTER
- 200-2 — SUPPLY AIR DEVICE - FIRST NO. CFM, SECOND NO. TYPE (REFER TO SCHEDULE FOR SIZE)
- 200-5 — RETURN AIR DEVICE - FIRST NO. CFM, SECOND NO. TYPE (REFER TO SCHEDULE FOR SIZE)
- 200-5 — EXHAUST AIR DEVICE - FIRST NO. CFM, SECOND NO. TYPE (REFER TO SCHEDULE FOR SIZE)
- 200-14 10x8 — SUPPLY/ RETURN/EXHAUST SIDEWALL GRILLE- FIRST NO. CFM, SECOND NO. TYPE BOTTOM NO. WIDTH BY HEIGHT OF GRILLE
- 250-7 4LF-2-1 — CFM, TYPE, SLOT WIDTH (INCHES), NO. OF SLOTS, LENGTH — LINEAR DIFFUSER
- 1 / M0101 — SECTION INDICATOR TOP INDICATES SECTION NUMBER BOTTOM INDICATES DRAWING NUMBER

GENERAL NOTES

1. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR ALL CEILING AIR DEVICE LOCATIONS.
2. REFER TO ARCHITECTURAL ELEVATION DRAWINGS FOR LOCATION OF WALL MOUNTED MECHANICAL ITEMS.
3. LOCATE ALL DUCT BALANCING DAMPERS ABOVE ACCESSIBLE CEILINGS, OR PROVIDE ACCESS DOORS. MINIMUM ACCESS DOOR SIZE SHALL BE 18x18 UNLESS OTHERWISE APPROVED BY ENGINEER.
4. DUCTWORK NOT SIZED IS GENERALLY SMALLER BRANCH ZONE DUCTS. COORDINATE ELEVATIONS AND PROVIDE NECESSARY OFFSETS. DUCTWORK SHALL BE SIZED PER THE BRANCH DUCTWORK SCHEDULE.
5. PROVIDE VOLUME DAMPERS AT ALL SUPPLY, RETURN AND EXHAUST DUCT BRANCH TAKE-OFFS. SEE DUCT CONSTRUCTION DETAILS.
6. INSTALL RIGID 1"x1" GALVANIZED STEEL WIRE MESH AT ALL OPEN ENDED DUCTS IN OCCUPIED AREAS OR EXPOSED TO VIEW.
7. COORDINATE SCHEDULE FOR HOOKUPS TO EXISTING SYSTEM AND REMOVAL OR RELOCATION OF EQUIPMENT WITH THE OWNER. PERFORM THIS WORK AT SUCH TIMES TO ENSURE THAT PERIODS OF SHUTDOWN WILL BE ACCEPTABLE TO THE OWNER.
8. VERIFY EXACT LOCATION OF CONNECTION POINTS (NEW TO EXISTING) IN FIELD PRIOR TO CONSTRUCTION.
9. COORDINATE INSTALLATION OF NEW DUCTWORK AND PIPING WITH EXISTING BUILDING STRUCTURE, DUCTWORK, PIPING, ELECTRICAL CONDUIT, LIGHTING, ETC.
10. TAKE DOWN AND REINSTALL EXISTING CEILINGS IN ALL AREAS WHERE MECHANICAL WORK IS INDICATED AND EXISTING CEILINGS REMAIN. REFER TO ARCHITECTURAL REFLECTED CEILING PLAN DRAWINGS FOR LOCATIONS WHERE EXISTING CEILINGS REMAIN. REPLACE CEILING TILES DAMAGED DURING WORK.
11. INSTALL ALL FLOOR MOUNTED HVAC EQUIPMENT, INCLUDING AHUS, PUMPS, BOILERS, ETC. ON 4" MINIMUM HEIGHT CONCRETE HOUSEKEEPING PAD. EXTEND PAD MINIMUM 4" BEYOND EQUIPMENT AT ALL SIDES.
12. PATCH ALL WALLS, FLOORS, CEILINGS, AND ROOFS TO MATCH EXISTING IN ALL CASES WHERE EXISTING WALLS, FLOORS, CEILINGS AND ROOFS REMAIN AND HVAC DEMOLITION IS INDICATED.
13. ALL HYDRONIC BRANCH PIPING SHALL BE 3/4" UNLESS NOTED OTHERWISE.

GENERAL NOTES

KEY NOTES

LEGEND

PROJECT NORTH
TRUE NORTH

ISSUE FOR BID

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Drawing Title: SYMBOLS, ABBREVIATIONS, AND GENERAL NOTES

Approved: Project Director
Approver

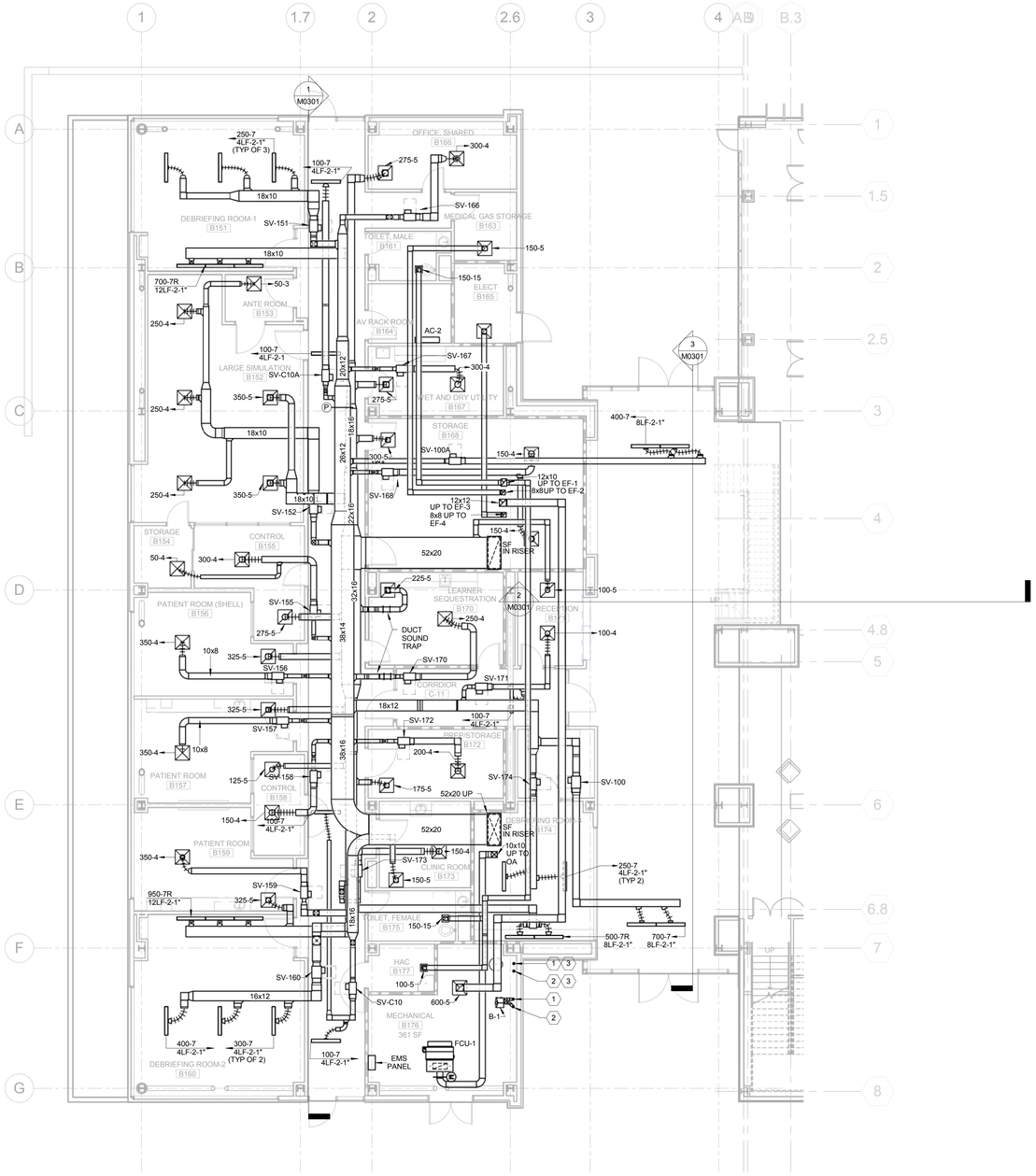
Project Title: VA SIMULATION CENTER

Location: Veterans Affairs Palo Alto Heath Care System, 3801 Miranda Ave,Palo Alto, CA 94304

Date: JUNE 14, 2013 | Checked: JN | Drawn: JRC

VA Project Number: 640-385
Building Number: 105
Drawing No. M0001

VA PAHCS Veterans Affairs Palo Alto Health Care System
Department of Veterans Affairs



1 LEVEL 1
1/8" = 1'-0"

GENERAL NOTES

1. BALANCE DAMPERS AT BRANCH TAKEOFFS AND RUNOUTS NOT SHOWN. SEE DETAIL 5/M0701.

KEY NOTES

NOTES:

1. 4"ø COMBUSTION AIR INTAKE UP. TERMINATE 3' ABOVE FINISHED ROOF WITH GOOSENECK.
2. 4"ø COMBUSTION EXHAUST UP. TERMINATE 3' ABOVE FINISHED ROOF.
3. CONNECT TO DOMESTIC WATER HEATER DWH-1. SEE PLUMBING DRAWINGS.

LEGEND

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Drawing Title
LEVEL 1 - HVAC DUCTWORK PLAN

Approved: Project Director
Approver

Project Title
VA SIMULATION CENTER

Location
Veterans Affairs Palo Alto Heath Care System
3801 Miranda Ave,Palo Alto, CA 94304

Date: JUNE 14, 2013
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VA Project Number: 640-385
Building Number: 105
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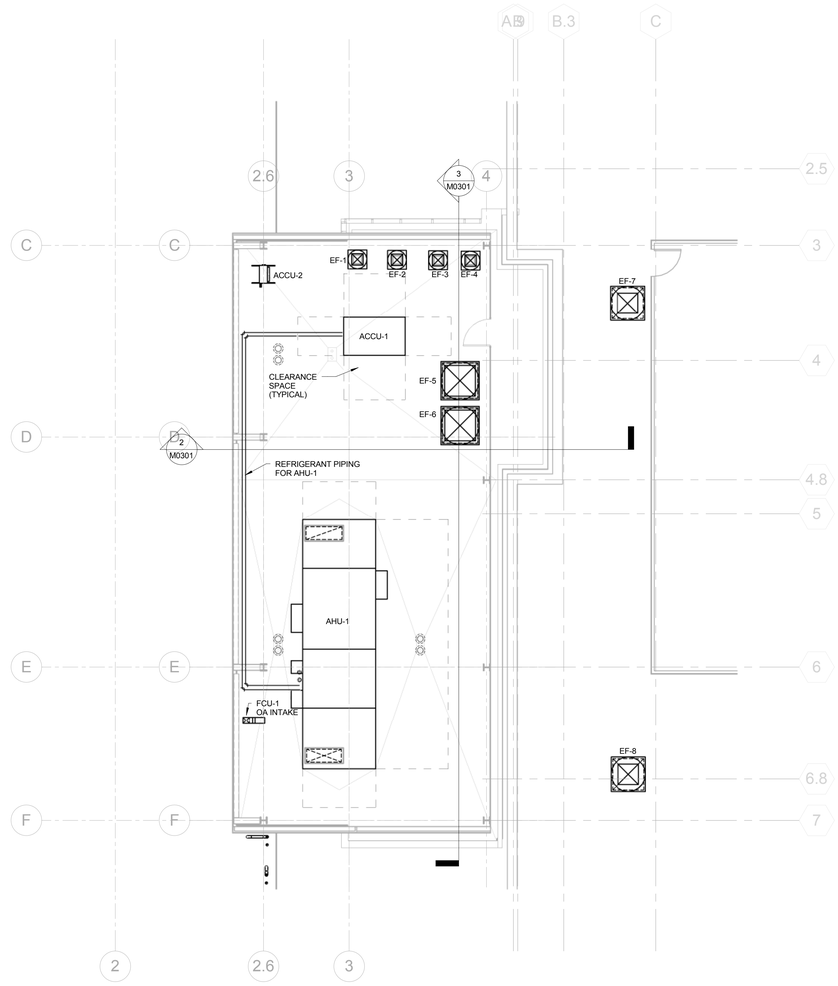
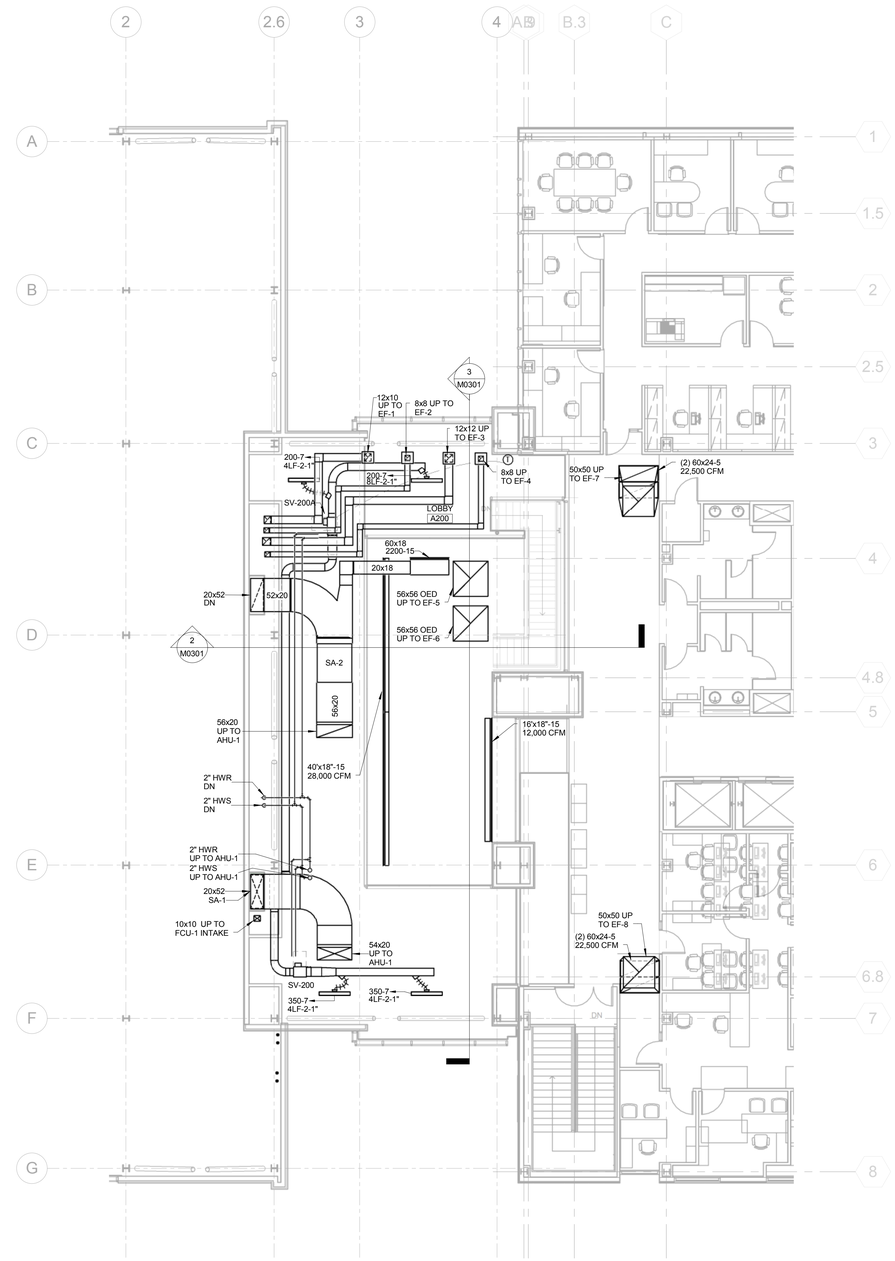


2 ROOF
1/8" = 1'-0"



1 LEVEL 2
1/8" = 1'-0"

GENERAL NOTES

KEY NOTES

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Drawing Title
LEVEL 2 HVAC DUCTWORK AND PIPING PLAN

Approved: Project Director
Approver

Project Title
VA SIMULATION CENTER

Location
Veterans Affairs Palo Alto Heath Care System
3801 Miranda Ave,Palo Alto, CA 94304

Date: JUNE 14, 2013
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VA Project Number: 640-385
Building Number: 105
Drawing No. M0102

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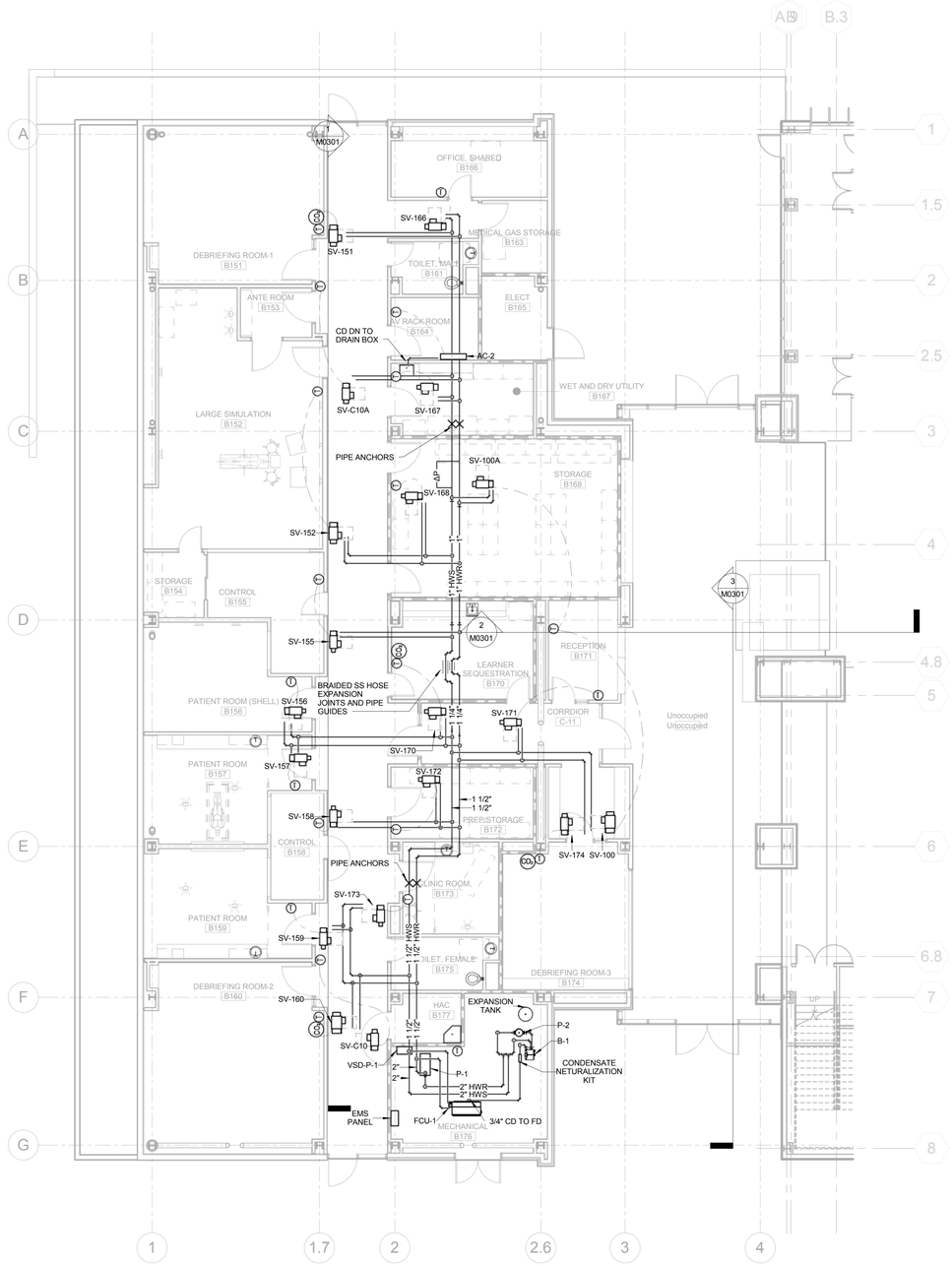

1 LEVEL 1
1/8" = 1'-0"

GENERAL NOTES

KEY NOTES

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Drawing Title
LEVEL 1 - HVAC PIPING PLAN

Approved: Project Director
Approver

Project Title
VA SIMULATION CENTER

Location
Veterans Affairs Palo Alto Heath Care System
3801 Miranda Ave,Palo Alto, CA 94304

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VA Project Number:
640-385

Building Number:
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Veterans Affairs Palo Alto Health Care System

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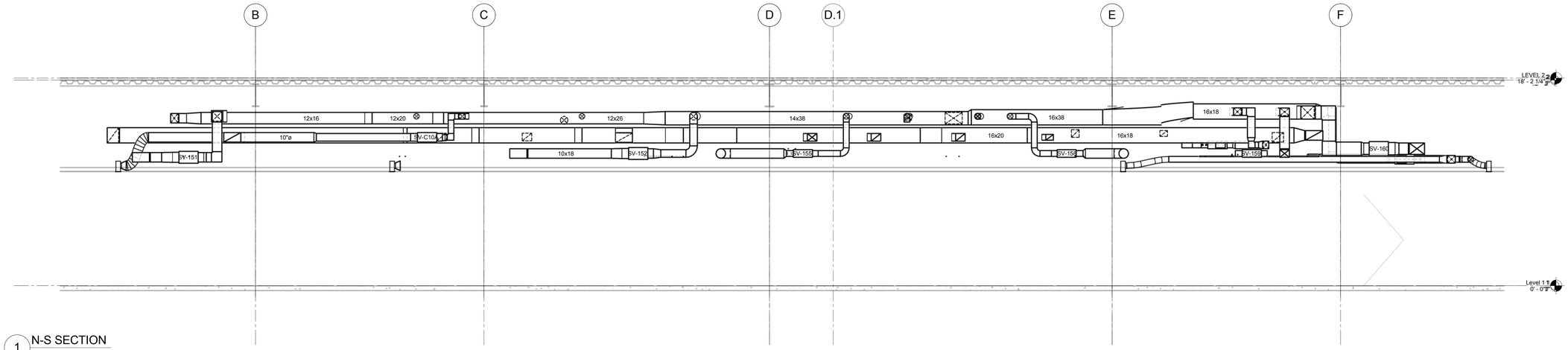
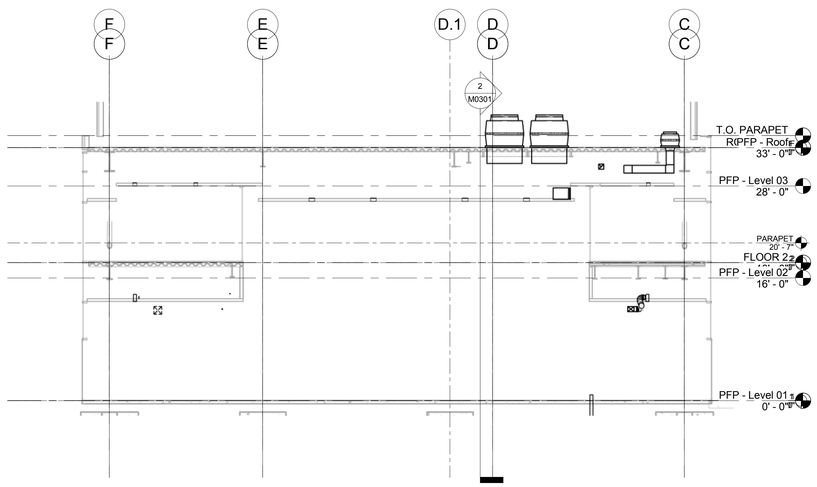
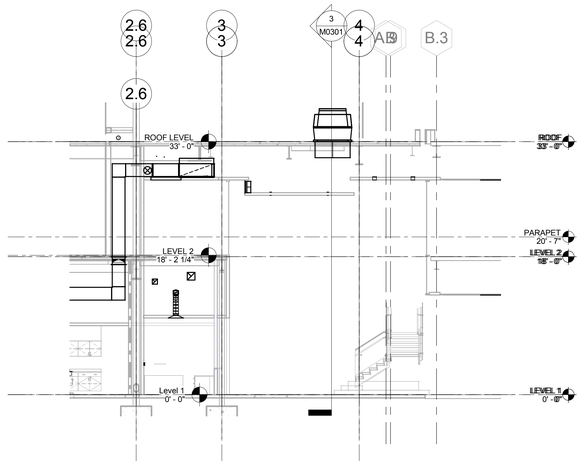


1 N-S SECTION
1/4" = 1'-0"



3 N-S LOBBY SECTION
1/8" = 1'-0"



2 E-W LOBBY SECTION
1/8" = 1'-0"

GENERAL NOTES

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Drawing Title
MECHANICAL SECTIONS

Approved: Project Director
Approver

Project Title
VA SIMULATION CENTER

Location
Veterans Affairs Palo Alto Heath Care System
3801 Miranda Ave,Palo Alto, CA 94304

Date
JUNE 14, 2013

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Author

VA Project Number:
640-385

Building Number:
105

Drawing No.
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Department of Veterans Affairs

AIR HANDLING UNIT SCHEDULE

UNIT NO.	MINIMU MOA CFM	SUPPLY FAN DATA							MOTOR				SOUND POWER LEVEL AT FAN OUTLET OCTAVE BAND (Db), RE 10^-12 W								COOLING COIL DATA									
		CFM	QTY	TOTAL SP (IN. WC)	EXT. S.P. (IN WC)	FAN RPM	WHEEL DIA (IN)	WHEEL TYPE	BHP	HP	RPM	VSD	1/63	2/125	3/250	4/500	5/1K	6/2K	7/4K	8/8K	TOTAL COOLING (MBH)	SENSIBLE CAPACITY (MBH)	MAX FACE VEL. (FPM)	MAX FINS PER INCH	MIN ROWS	EAT DB/WB (°F)	LAT DB/WB (°F)	MAX AIR PD (IN WC)	DX REFRIG. TYPE	DX QTY CIRCUITS	DX SST (°F)
AHU-1	2,100	10,000	1	4.5	2.00	1758	24.5	CENTRIF.	10.5	15	1750	YES	85	81	87	85	88	86	84	76	319.6	288	411	8	6	79/62	53/51	.81	R410A	2	45

AIR HANDLING UNIT SCHEDULE CONTD.

AIR FILTER DATA						RETURN / EXHAUST FAN DATA																		ELECTRICAL					BASIS OF DESIGN		
PRE-FILTER			FINAL FILTER										MOTOR				SOUND POWER LEVEL AT FAN OUTLET OCTAVE BAND (Db), RE 10^-12 W														
MERV	THICK (IN)	FACE VEL. (FPM)	MERV	THICK (IN)	FACE VEL. (FPM)	CFM	QTY	TOTAL SP (IN WC)	MIN ESP (IN WC)	FAN RPM	WHEEL DIA.	WHEEL TYPE	BHP	HP	RPM	VSD	1/63	2/125	3/250	4/500	5/1K	6/2K	7/4K	8/8K	V/PH/HZ	FLA	EMERGENCY POWER	UNIT DIMENSION (LxWxH)	MAX UNIT WEIGHT (LBS)	MANUFACTURER	MODEL	REMARKS
8	2	375	14	12	375	10,000	1	1.08	1.00	1366	24.5	CENTRIF.	3.75	7.5	1750	YES	75	73	87	77	76	76	73	66	480/3/60	27	NO	374x86x60	8140	McQUAY	OAH025GDGC	

AIR COOLED CONDENSING UNIT SCHEDULE

UNIT NO.	SYSTEM	AMBIENT TEMP DB (°F)	REFRIGERANT TYPE	NO. OF CIRCUITS	TOTAL HEAT REJECTION (MBH)	CONDENSER FAN QTY	CONDENSER FAN FLA	ELECTRICAL FLA	ELECTRICAL MCA	ELECTRICAL MOCP	ELECTRICAL V/PH/HZ	UNIT DIMENSIONS LxWxH	UNIT WEIGHT (LBS)	BASIS OF DESIGN MANUFACTURER	BASIS OF DESIGN MODEL	SOUND POWER AT OCTAVE BAND (Db) 1/63	2/125	3/250	4/500	5/1K	6/2K	7/4K	8/8K	REMARKS
ACCU-1	AHU-1 COOLING	95	R410A	2	333	3	2.0	45.5	59.3	80	460/3/60	80x94x55	2166	McQUAY	RCS030D	0	98	93	91	90	87	83	79	
ACCU-2	AV RACK ROOM	95	R410A	1	24	1		10.3	16.5	20	230/1/60	35x12x30	150	DAIKIN	RZR24PVJU									

PUMP SCHEDULE

UNIT NO.	SYSTEM	TYPE	FLUID TYPE	CAPACITY (GPM)	IMPELLER SIZE (IN)	HEAD (FT)	EFFICIENCY (%)	SUCTION (IN)	DISCHARGE (IN)	MOTOR BHP	MOTOR HP	MOTOR RPM	MOTOR VSD	MOTOR V/PH/HZ	EMERGENCY POWER	BASIS OF DESIGN MANUFACTURER	BASIS OF DESIGN MODEL	REMARKS
P-1	HEATING HOT WATER	BASE MOUNTED	WATER	21	7	54	39	1.5	1.25	0.73	1.5	1750	YES	480/3/60		BELL AND GOSSETT	1510 1-1/4AC	
P-2	BOILER PUMP	INLINE	WATER	16							1/6			110/1/60		ARMSTRONG	E SERIES	

FAN SCHEDULE

UNIT NO.	TYPE	CFM	SP (IN. WC)	FAN RPM	DRIVE	SOUND DATA SOUND POWER AT OCTAVE BAND (Db), RE 10^-12 W 1/63	2/125	3/250	4/500	5/1K	6/2K	7/4K	8/8K	MOTOR BHP	HP	RPM	VSD	V/PH/HZ	EMERGENCY POWER	WEIGHT	BASIS OF DESIGN MANUFACTURER	BASIS OF DESIGN MODEL	REMARKS
EF-1	CENTRIF. UPBLAST	400	0.75	1748	BELT	69	73	74	68	64	61	53	48	.12	1/6	1725	NO	115/1/60	NO	72	COOK	ACRU-B	
EF-2	CENTRIF. DOWNBLAST	150	.25	1092	BELT	66	65	64	52	48	44	40	37	.05	1/6	1725	NO	115/1/60	NO	72	COOK	ACE-B	
EF-3	CENTRIF. DOWNBLAST	600	.25	1288	BELT	63	65	71	62	58	54	48	44	.07	1/6	1725	NO	115/1/60	NO	71	COOK	ACE-B	
EF-4	CENTRIF. DOWNBLAST	150	.25	1092	BELT	66	68	64	52	48	44	40	37	.05	1/6	1725	NO	115/1/60	NO	71	COOK	ACE-B	
EF-5	TUBE AXIAL - UPBLAST	30,000	1.0	908	BELT	112	106	98	96	92	90	87	84	12.2	15	1725	NO	460/3/60	YES	1127	COOK	TUBSC	
EF-6	TUBE AXIAL - UPBLAST	30,000	1.0	908	BELT	112	106	98	96	92	90	87	84	12.2	15	1725	NO	460/3/60	YES	1127	COOK	TUBSC	
EF-7	TUBE AXIAL - UPBLAST	22,500	1.0	1043	BELT	107	104	99	95	92	89	86	83	9.48	10	1725	NO	460/3/60	YES	952	COOK	TUBSC	
EF-8	TUBE AXIAL - UPBLAST	22,500	1.0	1043	BELT	107	104	99	95	92	89	86	83	9.48	10	1725	NO	460/3/60	YES	952	COOK	TUBSC	

BOILER SCHEDULE

UNIT NO.	TYPE	BURNER CAPACITY INPUT (MBH)	BURNER CAPACITY GROSS OUTPUT (MBH)	BURNER CAPACITY MIN. INLET GAS PRESS. (IN. WG)	FLUE VENT DIA. (IN)	HOT WATER GPM	HOT WATER EWT (°F)	HOT WATER LWT (°F)	HOT WATER MAX PRESS. DROP (FT)	RELIEF VALVE SETTING (PSI)	ELECTRICAL DATA V/PH/HZ	ELECTRICAL DATA CONTROL VOLTAGE	ELECTRICAL DATA UNIT FLA	EMERGENCY POWER	BASIS OF DESIGN MANUFACTURER	BASIS OF DESIGN MODEL	REMARKS
B-1	CONDENSING	210	199.5	4	4	20	130	150	160 PSIG	30 PSIG	120/1/60	24	1.5	NO	LOCHINVAR	KBN-211-M9	PROVIDE LOW WATER CUT-OFF AND CONDENSATE NETUTRALIZING KIT

VIBRATION ISOLATION SCHEDULE

EQUIPMENT SERVED	ISOLATOR TYPE	MINIMUM STATIC DEFLECTION (IN.)	REMARKS
BASE MOUNTED PUMPS	C,J	1.5"	
SUSPENDED PUMPS / FANS	D	1.5"	
ROOF MOUNTED CENTRIFUGAL FANS	C,H	1"	
AIR HANDLING UNIT CASING	A	0.35"	
CONDENSING UNIT	C,H	1.5"	

REMARKS:

1.

DUCTLESS SPLIT SYSTEM INDOOR UNIT

UNIT NO.	SYSTEM	NOMINAL TONS	CFM	COOLING COIL TOTAL CAPACITY (MBH)	COOLING COIL SENSIBLE CAPACITY (MBH)	COOLING COIL EAT DB/WB (°F)	REFRIGERANT TYPE	REFRIGERANT NO. CIRCUITS	ELECTRICAL MOPD	ELECTRICAL MCA	ELECTRICAL V/PH/HZ	EMERGENCY POWER	UNIT DIMENSION (LxWxH) (FT-IN)	UNIT WEIGHT (LBS)	BASIS OF DESIGN MANUFACTURER	BASIS OF DESIGN MODEL	REMARKS
AC-2	AV RACK ROOM	2	635	24,000	18,000	80/67	R410A	1	15	.4	230/1/60		41x8x11	31	DAIKIN	FAQ24PVJU	

FAN COIL UNIT SCHEDULE

UNIT NO.	CONFIG.	TOTAL CFM	OA CFM	ESP (IN WC)	HEATING COIL CAPACITY (MBH)	HEATING COIL MIN ROWS	HEATING COIL EAT DB/WB (°F)	HEATING COIL LAT DB/WB (°F)	HEATING COIL GPM	HEATING COIL EWT (°F)	HEATING COIL LWT (°F)	HEATING COIL MAX WPD (FT)	ELECTRICAL DATA HP	ELECTRICAL DATA RPM	ELECTRICAL DATA V/PH/HZ	EMERGENCY POWER	FILTER MERV	BASIS OF DESIGN MANUFACTURER	BASIS OF DESIGN MODEL	REMARKS
FCU-1	HORIZONTAL	600	600	.4	29	2	34	80	2.0	150	120	1.13	1@ 1/8 & 1 @1/6	1350	115/1/60	N	7	ENVIRO-TEC	HLP	

AIR DEVICE SCHEDULE

TYPE	SERVICE	STYLE	FACE SIZE (IN)	NECK SIZE (IN)	AIR FLOW RANGE (CFM)	REMARKS
1, 2, 3, 4	SUPPLY	PERFORATED	24 x 24	6" Ø	0 - 100	
1, 2, 3, 4	SUPPLY	PERFORATED	24 x 24	8" Ø	101 - 200	
1, 2, 3, 4	SUPPLY	PERFORATED	24 x 24	10" Ø	201 - 300	
1, 2, 3, 4	SUPPLY	PERFORATED	24 x 24	12" Ø	301 - 450	
1, 2, 3, 4	SUPPLY	PERFORATED	24 x 24	14" Ø	451 - 500	
5	RETURN/EXHAUST	PERFORATED	24 x 24	6" Ø	0 - 100	
5	RETURN/EXHAUST	PERFORATED	24 x 24	8" Ø	101 - 200	
5	RETURN/EXHAUST	PERFORATED	24 x 24	10" Ø	201 - 325	
5	RETURN/EXHAUST	PERFORATED	24 x 24	12" Ø	326 - 450	
5	RETURN/EXHAUST	PERFORATED	24 x 24	14" Ø	451 - 600	
5	RETURN/EXHAUST	PERFORATED	24 x 24	15 x 15	601 - 950	
7, 7R	SUPPLY/RETURN	LINEAR	1			

NOTES:

1. REFER TO DRAWING FOR GRILLE SIZE AND AIR FLOW REQUIREMENTS.

SOUND ATTENUATOR SCHEDULE

UNIT NO.	TYPE	CFM	MAX FACE VEL.	MAX PRESS. DROP	DYNAMIC INSERTION LOSS (DIL) AT OCTAVE BAND/HERTZ 1/63	2/125	3/250	4/500	5/1K	6/2K	7/4K	8/8K	DIMENSIONS	BASIS OF DESIGN MANUFACTURER	BASIS OF DESIGN MODEL	REMARKS
SA-1	DUCT	10,000	1000	.2	13	19	31	36	69	27	22	16	54x30x60	IAC	5LFS	
SA-2	DUCT	10,000	-1000	.2	16	21	35	41	41	28	21	15	54x30x60	IAC	5LFS	

VARIABLE AIR VOLUME TERMINAL UNIT SCHEDULE

UNIT NO.	NECK SIZE	AIR QUANTITY MAX. CFM	AIR QUANTITY MIN. CFM	REHEAT COIL AIR TEMP IN °F	REHEAT COIL AIR TEMP OUT °F	REHEAT COIL TOTAL HEAT MBH	REHEAT COIL GPM	REMARKS
SV-100	12	700	210	53	96	9.8	0.8	
SV-100A	8	400	120	53	90	4.8	1.2	3
SV-151	10	750	375	53	85	13.0	0.8	
SV-152	10	800	400	53	85	13.9	0.9	2
SV-155	6	350	175	53	85	6.1	0.7	
SV-156	6	350	140	53	90	5.6	0.8	
SV-157	6	350	140	53	90	5.6	0.8	
SV-158	6	150	60	53	96	2.8	0.4	
SV-159	6	350	140	53	90	5.6	0.8	
SV-160	12	1000	450	53	85	15.6	1.5	3
SV-166	8	300	120	53	85	4.2	0.5	
SV-167	6	300	180	53	85	6.3	0.8	
SV-168	6	300	210	53	85	7.3	1.3	3
SV-170	6	250	180	53	85	6.2	0.8	
SV-171	6	200	200	53	85	6.9	1.1	3
SV-172	6	200	60	53	96	2.8	0.4	
SV-173	6	150	60	53	96	2.8	0.4	
SV-174	8	500	225	53	85	7.8	0.9	
SV-200	12	700	210	53	90	8.4	1.6	3
SV-200A	12	400	120	53	90	4.8	0.5	
SV-C10	8	200	200	53	93	8.6	0.8	
SV-C10A	8	200	200	53	93	8.6	0.8	

NOTES:

1. VARIABLE AIR VOLUME TERMINAL UNITS
   A. MAXIMUM AIR PRESSURE DROP OF 0.40 INCHES WG. INCLUDES RESISTANCE OF TERMINAL UNITS AND REHEAT COIL AT MAXIMUM AIRFLOW.
   B. REHEAT COIL BASED ON 150 DEGREE F EWT AND 120 DEGREE F LWT WITH A MAXIMUM WATER PRESSURE DROP OF 2.0 FEET.
   C. MAXIMUM FACE VELOCITY OF REHEAT COIL SHALL NOT EXCEED 900 FPM.
2. PROVIDE WITH SOUND ATTENUATOR.
3. PROVIDE THREE-WAY CONTROL VALVE.

BRANCH DUCTWORK SCHEDULE

UNLABELED DUCTS ARE GENERALLY SMALLER BRANCH DUCTS. COORDINATE ELEVATIONS AND PROVIDE ALL NECESSARY OFFSETS, UNLESS OTHERWISE INDICATED. DUCTS SHALL BE SQUARE, RECTANGULAR, OR ROUND OF THE FOLLOWING CROSS SECTIONAL AREA:

DUCT CFM	SQUARE INCHES MINIMUM	RECOMMENDED DUCT SIZE (INCHES) RECTANGULAR	RECOMMENDED DUCT SIZE (INCHES) ROUND (Ø)
0 - 100	28	8x4	6
125 - 225	48	8x6	8
250 - 400	78	10x8	10
425 - 650	128	16x8	12
675 - 950	180	18x10	14
975 - 1300	216	18x12	16

GENERAL NOTES

KEY NOTES

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Drawing Title: SCHEDULES

Approved: Project Director
Approver

Project Title: VA SIMULATION CENTER

Location: Veterans Affairs Palo Alto Heath Care System, 3801 Miranda Ave,Palo Alto, CA 94304

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Drawing No. M0501

VA PAHCS Veterans Affairs Palo Alto Health Care System

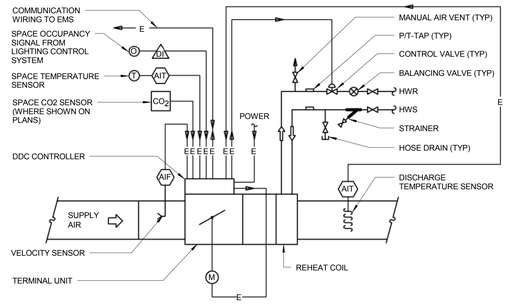
Department of Veterans Affairs

SEQUENCE OF OPERATIONS

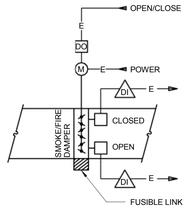
VAV TERMINAL UNIT/REHEAT CONTROL

A. TEMPERATURE CONTROL: A SPACE TEMPERATURE SENSOR SHALL MODULATE THE TERMINAL UNIT SUPPLY AIR DAMPER BETWEEN ITS MAXIMUM AND MINIMUM AIRFLOW POSITIONS IN SEQUENCE WITH THE REHEAT COIL CONTROL VALVE TO MAINTAIN SPACE TEMPERATURE.
1. THE TERMINAL UNIT DAMPER SHALL MODULATE TO ITS MINIMUM AIRFLOW POSITION BEFORE THE REHEAT COIL CONTROL VALVE OPENS TO COIL FLOW.
2. DURING OCCUPIED PERIODS SPACE SHALL BE MAINTAINED AT 72°F. DURING UNOCCUPIED PERIODS SPACE SHALL BE MAINTAINED BETWEEN 68°F AND 76°F TO KEEP SPACE OCCUPANT READY. WHEN THE AIR HANDLING UNIT IS NORMALLY OFF, SPACE TEMPERATURE SHALL BE MAINTAINED WITH 55°F MINIMUM.
B. OCCUPIED/UNOCCUPIED CONTROL: ROOM OCCUPANCY SENSORS SHALL PROVIDE EMS SYSTEM WITH ROOM OCCUPIED SIGNAL. DURING OCCUPIED PERIOD THE PRIMARY AIR SUPPLY TO THE SPACE SHALL BE OPEN. DURING SPACE UNOCCUPIED PERIODS THE PRIMARY AIR SUPPLY SHALL BE NORMALLY CLOSED UNLESS NEEDED FOR SPACE TEMPERATURE CONTROL. PROVIDE ONE HOUR TIME DELAY BEFORE SWITCH BACK TO UNOCCUPIED MODE FROM OCCUPIED MODE.
C. CARBON DIOXIDE SENSOR CONTROL: SPACE CARBON DIOXIDE (CO2) SENSOR (WHERE PROVIDED) SHALL PROVIDE EMS SYSTEM WITH ROOM CO2 LEVEL SIGNAL. INCREASE MINIMUM PRIMARY AIR SUPPLIED BY TERMINAL UNIT TO MAINTAIN CO2 LEVEL BELOW 1000 PPM. IF TERMINAL UNIT AIR DAMPER IS FULLY OPEN AND CO2 LVEL IS ABOVE THE SETPOINT, INCREASE THE AMOUT OF OUTSIDE AIR ENTERING THE UNIT UNTIL THE CO2 LEVEL DROPS BELOW SET POINT. IF THE CO2 LEVEL REMAINS ABOVE THE SETPOINT THE EMS SHALL PROVIDE AN ALARM AT THE MAIN OPERATOR'S TERMINAL.
D. SMOKE PURGE: DURING AIR HANDLING UNIT SMOKE PURGE MODE TERMINAL UNIT DAMPER SHALL BE OPEN TO MAXIMUM POSITION.

CONTROL VALVES ON VAV TERMINAL UNITS SHALL BE TWO-WAY AUTOMATED VALVES, EXCEPT THAT CONTROL VALVES SHALL BE THREE-WAY AUTOMATED VALVES WHEN NOTED IN THE VARIABLE AIR VOLUME TERMINAL UNIT SCHEDULE ON DRAWING M0501.



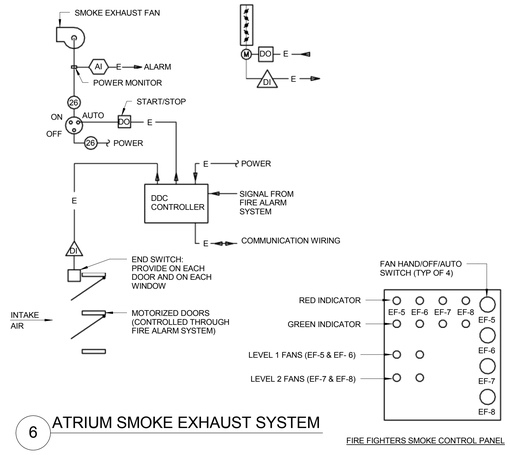
5 VARIABLE VOLUME TERMINAL UNIT WITH REHEAT



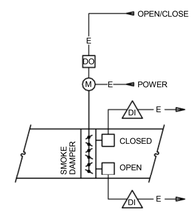
3 DUCT MOUNTED SMOKE FIRE DAMPER

LIFE SAFETY SYSTEMS

A. SMOKE DAMPER CONTROL:
1. CLOSE ALL STAND-ALONE FIRE/SMOKE DAMPERS IN DUCTWORK UPON GENERAL BUILDING FIRE ALARM.
2. PROVIDE HARDWIRED INTERLOCK OF LIFE SAFETY SYSTEM SMOKE DAMPERS WITH ASSOCIATED FAN STARTER SUCH THAT DAMPERS OPEN BEFORE FAN STARTS IN BOTH "HAND" OR "AUTO" POSITION.
B. SMOKE CONTROL SYSTEMS OPERATION AND TESTING:
1. ALL FIRE/SMOKE DAMPERS ARE CONTROLLED THROUGH THE EMS SYSTEM.
2. EACH DAMPER SHALL BE SUPPLIED WITH END SWITCHES (FURNISHED WITH DAMPER) TO INDICATE EITHER OPEN OR CLOSED POSITION.
3. EACH FAN SHALL HAVE CURRENT SENSORS TO VERIFY STATUS.
4. SMOKE CONTROL SYSTEMS SHALL HAVE HIGHEST CONTROL PRIORITY.
5. SMOKE CONTROL SEQUENCES SHALL BE EXECUTED BASED ON INPUT FROM THE FIRE ALARM SYSTEM AND THE FIREFIGHTERS SMOKE CONTROL STATION (FSCS) AS SPECIFIED AND INDICATED ON THE DRAWINGS.
A. WITH SELECTOR SWITCH IN THE "AUTO" POSITION SMOKE EVACUATION SYSTEM SHALL AUTOMATICALLY START UPON A GENERAL BUILDING FIRE ALARM.
B. ALL AIR HANDLING SYSTEMS AND EXHAUST FANS SHALL SHUT-DOWN UPON GENERAL BUILDING FIRE ALARM.
C. SMOKE PURGE FOR THE AIR HANDLING SYSTEM SHALL BE MANUAL INITIATED AT THE FSCS.
6. EMS SYSTEM SHALL PROVIDE GRAPHIC DEPICTION OF ALL SMOKE CONTROL SYSTEMS INDICATING EACH DAMPER POSITION AND FAN STATUS.
7. PROVIDE SYSTEM TEST LOG TO DOCUMENT SYSTEM TEST AND PROOF OF PROPER OPERATION OF EACH SMOKE CONTROL SYSTEM. TEST LOG PRINTOUT FORMAT SHALL BE ACCEPTABLE TO THE FIRE DEPARTMENT AS REQUIRED FOR QUARTERLY SYSTEM OPERATION CHECKOUT.



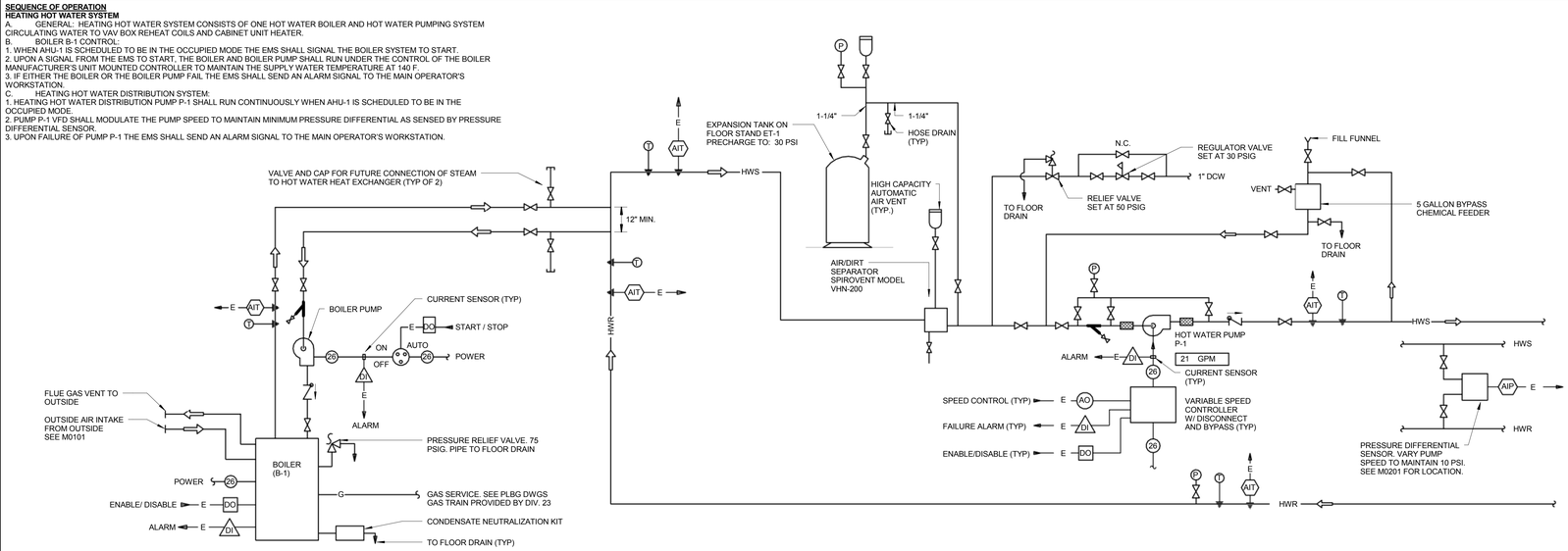
6 ATRIUM SMOKE EXHAUST SYSTEM



2 DUCT MOUNTED SMOKE DAMPER

SEQUENCE OF OPERATION
HEATING HOT WATER SYSTEM

A. GENERAL: HEATING HOT WATER SYSTEM CONSISTS OF ONE HOT WATER BOILER AND HOT WATER PUMPING SYSTEM CIRCULATING WATER TO VAV BOX REHEAT COILS AND CABINET UNIT HEATER.
B. BOILER B-1 CONTROL:
1. WHEN AHU-1 IS SCHEDULED TO BE IN THE OCCUPIED MODE THE EMS SHALL SIGNAL THE BOILER SYSTEM TO START.
2. UPON A SIGNAL FROM THE EMS TO START, THE BOILER AND BOILER PUMP SHALL RUN UNDER THE CONTROL OF THE BOILER MANUFACTURER'S UNIT MOUNTED CONTROLLER TO MAINTAIN THE SUPPLY WATER TEMPERATURE AT 140 F.
3. IF EITHER THE BOILER OR THE BOILER PUMP FAIL THE EMS SHALL SEND AN ALARM SIGNAL TO THE MAIN OPERATOR'S WORKSTATION.
C. HEATING HOT WATER DISTRIBUTION SYSTEM:
1. HEATING HOT WATER DISTRIBUTION PUMP P-1 SHALL RUN CONTINUOUSLY WHEN AHU-1 IS SCHEDULED TO BE IN THE OCCUPIED MODE.
2. PUMP P-1 VFD SHALL MODULATE THE PUMP SPEED TO MAINTAIN MINIMUM PRESSURE DIFFERENTIAL AS SENSED BY PRESSURE DIFFERENTIAL SENSOR.
3. UPON FAILURE OF PUMP P-1 THE EMS SHALL SEND AN ALARM SIGNAL TO THE MAIN OPERATOR'S WORKSTATION.



1 HIGH EFFICIENCY GAS FIRED BOILER SYSTEM

GENERAL NOTES

KEY NOTES

LEGEND

PROJECT NORTH
TRUE NORTH

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CONSULTANTS:

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Drawing Title: FLOW AND CONTROL DIAGRAMS

Approved: Project Director
Approver

Project Title: VA SIMULATION CENTER

Location: Veterans Affairs Palo Alto Heath Care System, 3801 Miranda Ave,Palo Alto, CA 94304

Date: JUNE 14, 2013 | Checked: JN | Drawn: JRC

VA Project Number: 640-385

Building Number: 105

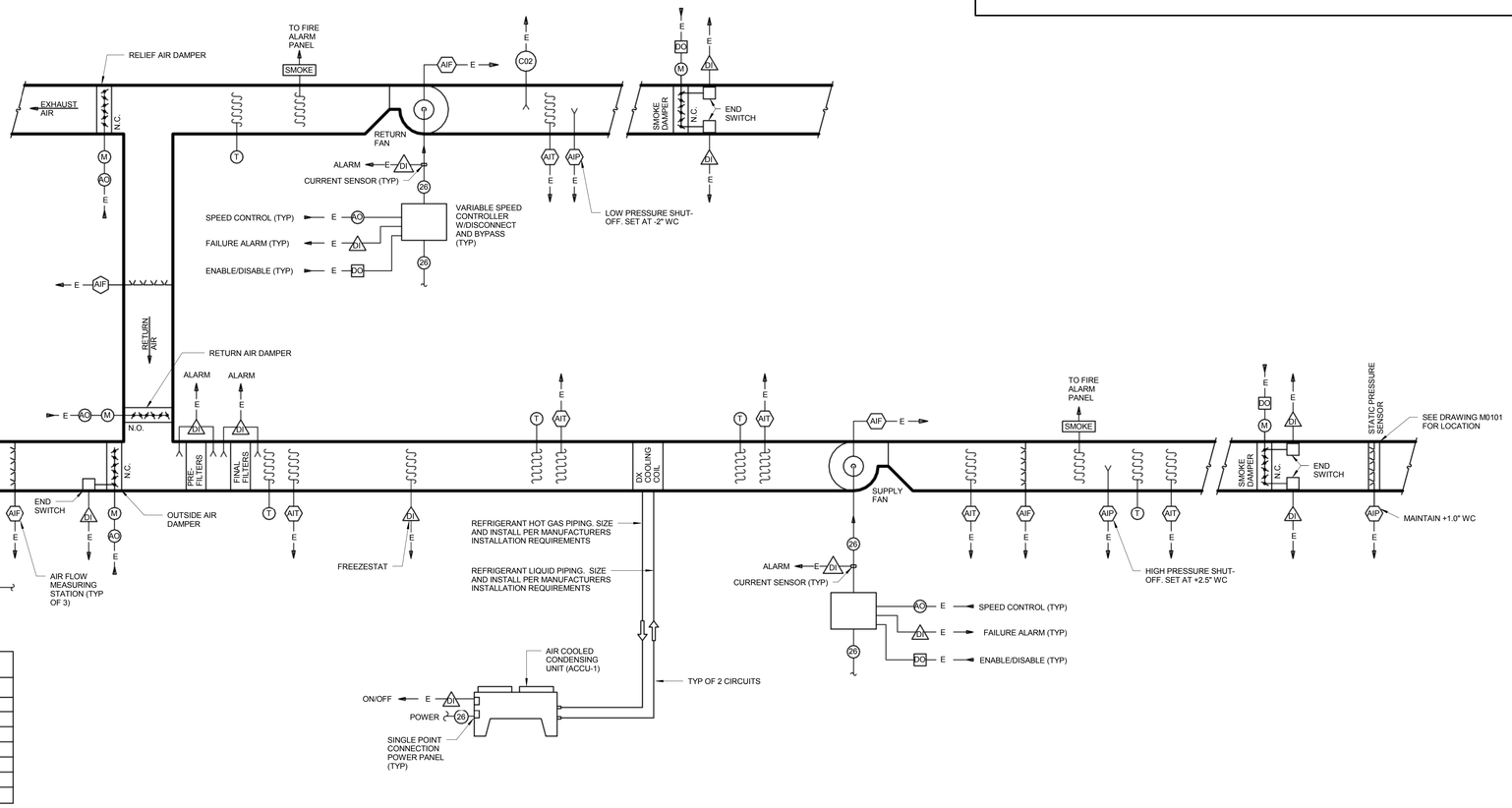
Drawing No. M0601

VA PAHCS Veterans Affairs Palo Alto Health Care System

Department of Veterans Affairs

SEQUENCE OF OPERATIONS

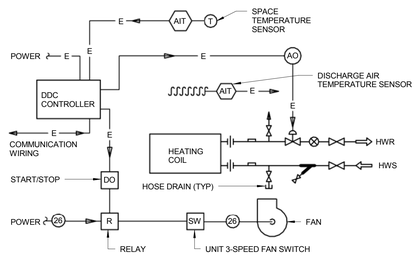
A. GENERAL: THIS AIR HANDLING SYSTEM IS A VARIABLE AIR VOLUME SYSTEM SERVING TERMINAL UNITS THROUGHOUT THE BUILDING.
B. ON/OFF SEQUENCE: THE AIR HANDLING SYSTEMS SHALL OPERATE CONTINUOUSLY WHEN PLACED IN OCCUPIED MODE BY THE EMS AND SHALL BE STOPPED WHEN PLACED IN THE UNOCCUPIED MODE BY THE EMS. OCCUPIED AND UNOCCUPIED MODES SHALL BE DETERMINED BY A TIME OF DAY SCHEDULE.
C. START SEQUENCE: PROVIDE CONTROLS TO:
1. OPEN SUPPLY AND RETURN SMOKE DAMPERS AND ACTIVATE EXHAUST AIR, RETURN AIR AND OUTSIDE AIR CONTROL DAMPERS.
2. WHEN AIR HANDLING SYSTEM SUPPLY AND RETURN AIR SMOKE DAMPERS PROVE OPEN, START SUPPLY FAN AND RETURN AIR FAN AND PLACE UNIT CONTROLS IN RUN POSITION.
D. STOP SEQUENCE: PROVIDE CONTROLS TO:
1. DE-ENERGIZE FAN MOTORS.
2. CLOSE SMOKE DAMPERS ON SUPPLY AND RETURN SIDES OF UNIT AFTER FANS HAVE ROLLED TO NEAR STOP.
3. CLOSE OUTSIDE AIR DAMPER.
4. IF SPACE TEMPERATURE DROPS BELOW 55°F WHEN THE UNIT IS NORMALLY STOPPED, THE UNIT WILL BE PLACED INTO MORNING WARMUP MODE AND STARTED UNTIL SPACE TEMPERATURES ARE ABOVE 55°F. OUTSIDE AIR DAMPER AND EXHAUST DAMPER WILL BE CLOSED AND RETURN AIR DAMPER WILL BE FULLY OPEN IN WARMUP MODE.
E. ECONOMIZER CONTROL: PROVIDE INDIVIDUAL CONTROL OF OUTSIDE AIR DAMPER, RETURN AIR DAMPER AND EXHAUST AIR DAMPER, AND CONTROL IN UNISON TO PROVIDE ECONOMIZER SYSTEM OF DAMPER CONTROL.
1. RETURN OUTSIDE DAMPERS TO MINIMUM OUTSIDE AIR POSITION WHEN OUTSIDE AIR IS ABOVE 55°F.
2. CLOSE OUTSIDE AIR DAMPER WHEN UNIT FAN IS DE-ENERGIZED OR DURING MORNING WARM-UP PERIODS.
3. CALCULATE OUTSIDE AIR PERCENTAGE BASED ON TEMPERATURE MEASUREMENT OF RETURN AIR, OUTSIDE AIR AND MIXED AIR. CONFIRM/ADJUST OUTSIDE AIR VOLUME WITH OUTSIDE AIR MONITOR.
4. MINIMUM OUTSIDE AIR VOLUME SHALL NOT LESS BE THAN THE MINIMUM SHOWN ON THE AIR HANDLING UNIT SCHEDULE.
F. DISCHARGE AIR TEMPERATURE RESET CONTROL: PROVIDE A UNIT DISCHARGE TEMPERATURE RESET BY THE TERMINAL UNIT CONTROLS WHICH SHALL MODULATE THE DISCHARGE TEMPERATURE TO THE HIGHEST TEMPERATURE THAT WILL SATISFY EACH ZONE IN THE SYSTEM. SUPPLY AIR TEMPERATURE SHALL BE ADJUSTABLE BETWEEN 55°F AND 60°F.
G. SMOKE DETECTION: MANUAL RESET TYPE SMOKE DETECTORS, LOCATED IN THE RETURN AIR INLET AND IN THE SUPPLY FAN DISCHARGE, SHALL NOTIFY THE FIRE ALARM SYSTEM IF THEY SENSE SMOKE.
H. SHUT-DOWN SMOKE DAMPER DELAY: PROVIDE CONTROLS TO DELAY CLOSING OF ALL SMOKE DAMPERS UNTIL THEIR RESPECTIVE FAN ROLLS TO NEAR STOP.
I. SMOKE PURGE MODE: UPON SIGNAL FROM EMS SYSTEM SMOKE PURGE MODE SHALL BE STARTED.
1. OPERATE SUPPLY FAN AT FULL CAPACITY WITH 100 PERCENT OUTDOOR AIR. TERMINAL UNITS SHALL OPEN TO MAXIMUM POSITION.
2. OPERATE RETURN FAN AT FULL CAPACITY WITH RETURN DAMPER OPEN FULLY AND FULL EXHAUST TO OUTSIDE AND ALL ASSOCIATED EXHAUST FANS SHALL BE ON.
J. FIRE ALARM SHUT DOWN: THE FIRE ALARM SYSTEM SHALL SHUT DOWN THE AIR HANDLING SYSTEM THROUGH THE EMS SYSTEM UPON ALARM SIGNAL FROM FIRE ALARM PANEL.
K. VARIABLE AIR VOLUME CONTROL: PROVIDE SUPPLY AIR AND RETURN AIR MEASURING STATIONS AND STATIC PRESSURE SENSORS. THE SENSORS, THROUGH THE SYSTEM CONTROLLER, SHALL VARY THE SYSTEM SUPPLY AIR AND RETURN AIR VOLUMES SIMULTANEOUSLY. SYSTEM VOLUME SHALL VARY FROM FULL LOAD TO A MINIMUM, IN ORDER TO MAINTAIN SETPOINT AT REMOTE STATIC PRESSURE SENSOR. (RETURN VOLUME SHALL BE SUPPLY AIR VOLUME LESS MINIMUM OUTSIDE AIR TO ASSURE PROPER BUILDING PRESSURIZATION.)
L. DUCT OVER-PRESSURIZATION CONTROL:
1. STATIC PRESSURE SENSOR IN AIR HANDLING UNIT DISCHARGE SHALL OVERRIDE REMOTE DUCT STATIC PRESSURE CONTROLLER TO MAINTAIN INDICATED SYSTEM MAXIMUM DISCHARGE PRESSURE.
2. STATIC PRESSURE SENSOR IN RETURN FAN INLET DUCT SHALL OVERRIDE FAN SPEED CONTROL TO MAINTAIN INDICATED SYSTEM MINIMUM STATIC PRESSURE.
M. FREEZE PROTECTION: PROVIDE LOW TEMPERATURE CONTROLLER (FREEZESTAT) TO DE-ENERGIZE THE AIR HANDLING SYSTEM FANS, CLOSE THE OUTSIDE AIR DAMPER AND EXHAUST DAMPER AND FULLY OPEN THE RETURN DAMPER WHEN SUPPLY AIR TEMPERATURE FALLS BELOW 34°F. OVERRIDE FREEZESTAT DURING SMOKE PURGE MODE.
N. INTERLOCK: A SCHEDULED INTERLOCK SHALL INTERCONNECT OTHER FANS TO THE OCCUPIED CYCLE OF THIS UNIT FAN, SUCH THAT WHEN THE UNIT FAN RUNS ON THE OCCUPIED CYCLE, THESE FAN RUN.



EXHAUST FAN INTERLOCK

EXHAUST FAN INTERLOCK	
AHU-1	EF-1
	EF-2

1 AHU-1 FLOW AND CONTROL



2 FAN COIL UNIT
1/8" = 1'-0"

VENTILATION SYSTEMS
A. ELECTRICAL ROOM VENTILATION:
1. UPON RISE OF SPACE TEMPERATURE ABOVE SET POINT, THE EMS SHALL START THE EXHAUST FAN UNTIL SPACE TEMPERATURE DROPS BELOW SET POINT.
2. PROVIDE REMOTE ON/OFF CONTROL OF VENTILATION SYSTEM THROUGH EMS SYSTEM.
B. MECHANICAL ROOM VENTILATION:
1. UPON RISE OF SPACE TEMPERATURE ABOVE 80°F (ADJUSTABLE), THE EMS SYSTEM SHALL CLOSE THE HEATING COIL CONTROL VALVE, OPEN THE OUTSIDE AIR DAMPER AND START THE FAN ON THE FAN COIL UNIT AND START THE EXHAUST FAN UNTIL SPACE TEMPERATURE DROPS BELOW SET POINT. AFTER SPACE TEMPERATURE DROPS BELOW SETPOINT THE OUTSIDE AIR DAMPER SHALL BE CLOSED AND THE FAN COIL FAN AND EXHAUST FAN SHALL BE STOPPED.
2. UPON A DROP IN SPACE TEMPERATURE BELOW 65°F (ADJUSTABLE) THE FAN COIL FAN SHALL START AND THE HEATING COIL VALVE SHALL MODULATE TO MAINTAIN THE SETPOINT TEMPERATURE. WHEN THE SPACE TEMPERATURE IS ABOVE SETPOINT THE FAN SHALL STOP.
3 PROVIDE REMOTE ON/OFF CONTROL OF VENTILATION SYSTEM THROUGH EMS SYSTEM.

GENERAL NOTES

KEY NOTES

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CONSULTANTS:

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Drawing Title: FLOW AND CONTROL DIAGRAMS

Approved: Project Director
Approver

Project Title: VA SIMULATION CENTER

Location: Veterans Affairs Palo Alto Heath Care System, 3801 Miranda Ave,Palo Alto, CA 94304

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Building Number: 105
Drawing No. M0602

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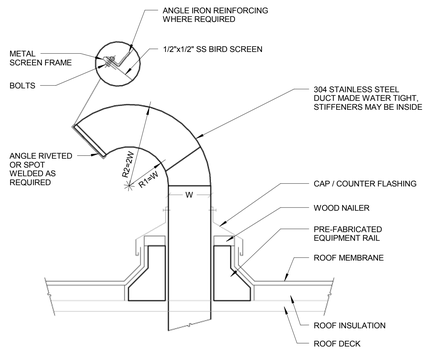
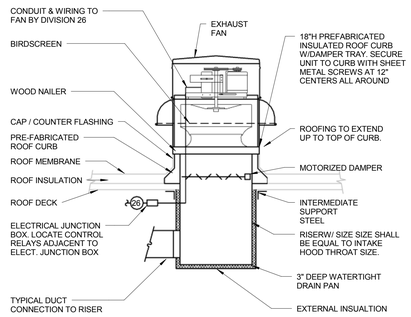
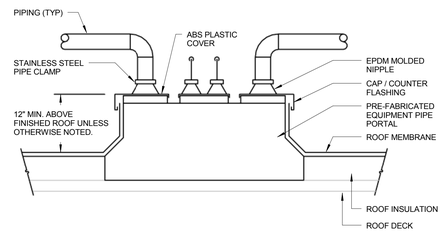


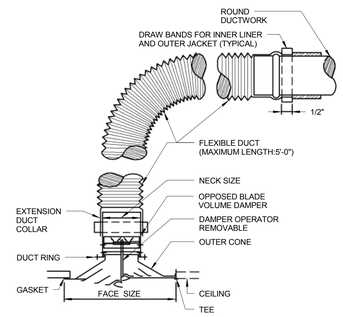
10 TYPICAL GOOSENECK
1/8" = 1'-0"



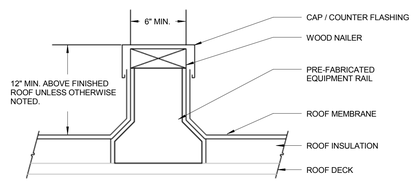
9 ROOF EXHAUST FAN



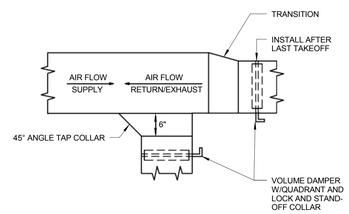
6 PIPE PORTAL



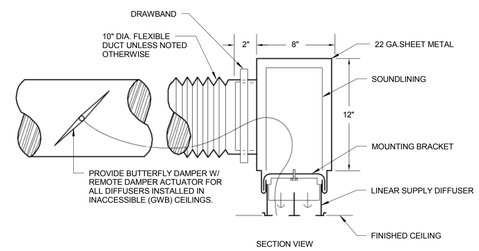
3 TYPE 1, 2, 3 AND 4 CEILING DIFFUSER



8 ROOF MOUNTED EQUIPMENT/ DUCT/ PIPE SUPPORT RAIL

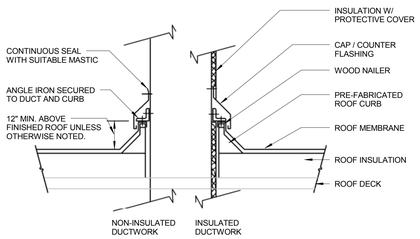


5 DUCT TAKE-OFF

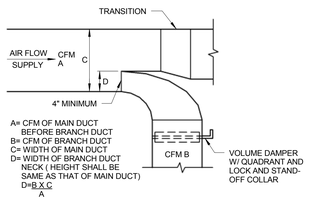


NOTES:
1. LENGTH OF PLENUM IS EQUAL TO DIFFUSER LENGTH UNLESS OTHERWISE INDICATED.
2. PLENUMS MAY BE PENETRATED BY FRAMING. PROVIDE OPENINGS FOR FRAMING. SEAL ALL PENETRATIONS AIR TIGHT.
4. SUPPORT PLENUMS FROM STRUCTURAL MEMBERS ABOVE.

2 TYPE -7 LINEAR SUPPLY DIFFUSER

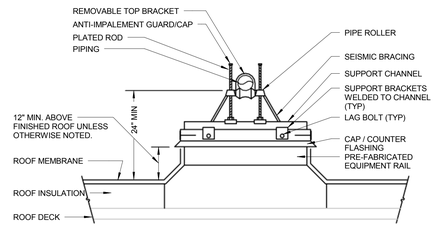


7 DUCT THROUGH ROOF



NOTE:
UTILIZE FOR CFM B EQUAL OR MORE THAN 25% OF CFM A

4 SUPPLY BRANCH TAKE-OFF



1 PIPING ON ROOF SUPPORT
1/8" = 1'-0"

GENERAL NOTES

KEY NOTES

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Drawing Title: DETAILS

Approved: Project Director
Approver

Project Title: VA SIMULATION CENTER

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Building Number: 105

Drawing No. M0701

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'E' SERIES GENERAL NOTES

1. FOR EXACT LOCATION AND FINISH SURFACE CONDITIONS OF CEILING, WALL, FLOOR MOUNTED DEVICES, REFER TO ARCHITECTURAL DRAWINGS.

2. FOR EXACT LOCATION OF FACILITY EXPANSION JOINTS, FIRE RATED WALLS AND SMOKE WALLS, REFER TO ARCHITECTURAL DRAWINGS.

3. FOR EXACT LOCATIONS OF DUCT MOUNTED SMOKE DETECTORS, WATER FLOW SWITCHES AND TAMPER SWITCHES REFER TO MECHANICAL DRAWINGS.

4. VERIFY EXACT LOCATION OF CONNECTION POINTS PRIOR TO CONNECTION.

5. MOUNTING HEIGHTS ARE TO CENTER OF DEVICE OR EQUIPMENT, UNLESS OTHERWISE NOTED.

6. PROVIDE RACEWAY, WIRE AND CABLE, ASSOCIATED FITTINGS AND CONNECTORS, AND COMPLETE CONNECTIONS REQUIRED FOR DESIGNATED BRANCH CIRCUITS FROM DEVICE(S) TO FINAL OVERCURRENT DEVICE AND TO LOCAL CONTROL DEVICE(S) PER SPECIFICATIONS.

7. MINIMUM BRANCH CIRCUIT WIRE SIZE SHALL BE #12 AWG EXCEPT LIFE SAFETY BRANCH CIRCUIT WIRING WHICH SHALL BE MINIMUM #10 AWG. MAINTAIN MAXIMUM BRANCH CIRCUIT CONDUCTOR LENGTHS AS PER SPECIFICATIONS AND SCHEDULED ON THIS DRAWING. INCLUDE GROUND CONDUCTOR DERATINGS.

8. PULL SEPARATE NEUTRAL CONDUCTORS AS SHOWN ON DRAWINGS AND TO BRANCH CIRCUITS SERVING OR HAVING:
   - DIMMERS.
   - GROUND FAULT PROTECTED DEVICES.
   - ISOLATED GROUNDS.
   - ARC FAULT PROTECTED DEVICES.
   - COMPUTER RECEPTACLES.
   - SURGE SUPPRESSION DEVICES.
   - OTHER NON-SINUSOIDAL LOADS.

9. PROVIDE GROUNDING PER NEC. ALSO PROVIDE GREEN GROUND WIRE IN ALL BRANCH AND FEEDER CIRCUITS SIZED PER NEC.

10. ALL STAIRWAY LIGHTING SHALL BE WIRED VERTICALLY.

ABBREVIATIONS

A	AMPERE
AC	ARMOR CLAD CABLE
AF	ABOVE FLOOR / AMPERE FRAME
AFCI	ARC-FAULT CIRCUIT INTERRUPTING
AFF	ABOVE FINISHED FLOOR
AHJ	AUTHORITY HAVING JURISDICTION
AHU	AIR HANDLING UNIT
AIC	AMPERE INTERRUPTING CAPACITY
AL	ALUMINUM
AM	AMMETER
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE
ATS	AUTOMATIC TRANSFER SWITCH
AV	AUDIO VISUAL
AWG	AMERICAN WIRE GAUGE
BAS	BUILDING AUTOMATION SYSTEM
BKBD	BACKBOARD
BKR	CIRCUIT BREAKER
C	CONDUIT
CAT	CATALOG
CATV	CABLE ANTENNA TELEVISION
CCT	CIRCUIT
CCTV	CLOSED CIRCUIT TELEVISION
CKT	CIRCUIT
CLG	CEILING
CM	CONSTRUCTION MANAGER
CO	COMPANY
CT	CABLE TRAY / CURRENT TRANSFORMER
CTTS	CLOSED TRANSITION TRANSFER SWITCH
CU	COPPER
DIA	DIAMETER
DIV	DIVISION
DN	DOWN
DVD	DIGITAL VERSATILE DISC
DVS	DIGITAL VIDEO SURVEILLANCE
DWG	DRAWING
EA	EACH
EF	EXHAUST FAN
EGS	ENGINE-GENERATOR SET
ELEV	ELEVATOR
EMT	ELECTRICAL METALLIC TUBING
EO	EQUIPMENT BY OWNER
EQUIP	EQUIPMENT
EWC	ELECTRIC WATER COOLER
EXH	EXHAUST
EXP	EXPLOSION PROOF
FACU	FIRE ALARM CONTROL UNIT
FBO	FURNISHED BY OWNER
FI	FILM ILLUMINATOR
FLR	FLOOR
FPU	FIELD PROCESSING UNIT
FTL	FEED THRU LUGS
GA	GAUGE
GB	GIGABIT
GE	GROUNDING EQUALIZER CONDUCTOR
GEN	GENERATOR
GFCI	GROUND FAULT CIRCUIT INTERRUPTING
GFI	GROUND FAULT INTERRUPTING
GND	GROUND
HC	HARMONIC CONDITIONING TRANSFORMER
HF	HARMONIC FILTER
HFT	HARMONIC FILTER WITH INTEGRAL TRANSFORMER
HID	HIGH INTENSITY DISCHARGE
HOA	HAND OFF AUTO
HP	HORSEPOWER
HS	HARMONIC SUPPRESSION TRANSFORMER
HSKPG	HOUSEKEEPING
HTR	HEATER
ICC	INTERMEDIATE CROSS CONNECT
ID	INSIDE DIAMETER
IDF	INTERMEDIATE DISTRIBUTION FRAME
IMC	INTERMEDIATE METAL CONDUIT
IP	INTERNET PROTOCOL
IR	INFRARED
JB	JUNCTION BOX
KV	KILOVOLT
KVA	KILOVOLT AMPERE
KW	KILOWATT
KWH	KILOWATT HOUR
LA	LIGHTNING ARRESTOR
LAN	LOCAL AREA NETWORK
LCD	LIQUID CRYSTAL DISPLAY
LED	LIGHT EMITTING DIODE
LS	LIFE SAFETY
LTD	LONG TIME DELAY
LTG	LIGHTING
MAX	MAXIMUM
MATV	MASTER ANTENNA TELEVISION
MB	MEGABIT
MC	METAL CLAD CABLE
MCB	MAIN CIRCUIT BREAKER
MCC	MOTOR CONTROL CENTER
MCP	MOTOR CIRCUIT PROTECTOR
MDF	MAIN DISTRIBUTION FRAME
MDP	MAIN DISTRIBUTION PANELBOARD
MECH	MECHANICAL
MFS	MAIN FUSED SWITCH
MGP	MEDICAL GAS PANEL
MI	MINERAL INSULATED CABLE
MIN	MINIMUM
MLO	MAIN LUGS ONLY
MM	MULTIMODE
MTD	MOUNTED
MTS	MANUAL TRANSFER SWITCH
MV	MEDIUM VOLTAGE
NA	NOT APPLICABLE
NC	NORMALLY CLOSED
NEC	NATIONAL ELECTRICAL CODE
NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
NIC	NOT IN CONTRACT
NO	NORMALLY OPEN
NOC	NETWORK OPERATIONS CENTER
NTS	NOT TO SCALE
OA	OUTSIDE AIR
OC	ON CENTER
OCPD	OVERCURRENT PROTECTIVE DEVICE
OD	OUTSIDE DIAMETER
OH	OVERHEAD
P	POLE
PA	PUBLIC ANNOUNCEMENT
PB	PULLBOX/PUSHBUTTON
P/E	PNEUMATIC - ELECTRIC
PH/*	PHASE
PNL	PANELBOARD
PLC	PROGRAMMABLE LOGIC CONTROLLER
PoE	POWER OVER ETHERNET
PSU	PATIENT SERVING UNIT
PT	POTENTIAL TRANSFORMER
PTZ	PAN/TILT/ZOOM
PVC	POLYVINYL CHLORIDE
PWR	POWER
RCP	REFLECTED CEILING PLANS
RE	REFER TO
REC	RECEPTACLE
REF	REFRIGERATOR
RF	RETURN FAN
RF	RADIO FREQUENCY
RFID	RADIO FREQUENCY IDENTIFICATION DEVICE
RGS	RIGID GALVANIZED STEEL
RM	ROOM
RTLS	REAL TIME LOCATION SYSTEM
RUPS	ROTARY HYBRID UNINTERRUPTIBLE POWER SUPPLY
SCHED	SCHEDULE
SF	SUPPLY FAN
SFL	SUB FEED LUGS
SFP	SURGICAL FACILITY PANEL
SH	SHEET
SM	SINGLEMODE
SPC	SPACE
SPEC	SPECIFICATION
SPR	SPARE
SS	STAINLESS STEEL
STD	SHORT TIME DELAY
STP	SHIELDED TWISTED PAIR
STR	STARTER
SWBD	SWITCHBOARD
SWGR	SWITCHGEAR
TBB	TELECOMMUNICATIONS BONDING BACKBONE
TC	TERMINAL CABINET
TERM	TERMINAL
TEL	TELEPHONE
TGB	TELECOMMUNICATIONS GROUNDING BUS BAR
THD	TOTAL HARMONIC DISTORTION
TMGB	TELECOMMUNICATIONS MAIN GROUNDING BUS BAR
TR	TELECOMMUNICATIONS ROOM
TRANS	TRANSITION
TRANSF	TRANSFORMER
TSER	TELECOMMUNICATIONS SERVICE ENTRANCE ROOM
TV	TELEVISION
TVSS	TRANSIENT VOLTAGE SURGE SUPPRESSION
TYP	TYPICAL
UC	UNDERCOUNTER
UG	UNDERGROUND
UON	UNLESS OTHERWISE NOTED
UPS	UNINTERRUPTIBLE POWER SUPPLY
USS	UNIT SUBSTATION
UTP	UNSHIELDED TWISTED PAIR
V	VOLT
VA	VOLT-AMPS
VFD	VARIABLE FREQUENCY DRIVE
VM	VOLTMETER
VoIP	VOICE OVER INTERNET PROTOCOL
VSD	VARIABLE SPEED DRIVE
W	WATT
WAN	WIDE AREA NETWORK
WAP	WIRELESS ACCESS POINT
WLAN	WIRELESS LOCAL AREA NETWORK
WP	WEATHERPROOF

EQUIPMENT DESIGNATIONS

1 LRC 1
- FLOOR
- EQUIPMENT NAME
- SEQUENCE NUMBER
- NUMBERS IN SEQUENCE - 1, 2, 3, ETC

ATS AUTOMATIC TRANSFER SWITCH
LRC LIGHTING RELAY CABINET
T TRANSFORMER

1 FIRST FLOOR
2 SECOND FLOOR

PANELBOARD DESIGNATIONS

4 P E L 1
- FLOOR
- TYPE
- SYSTEM / SOURCE
- VOLTAGE
- SEQUENCE NUMBER
- NUMBERS IN SEQUENCE - 1, 2, 3, ETC

H 480Y / 277V
L 208Y / 120V OR 240V

N NORMAL BRANCH

L LIGHTING AND APPLIANCE PANELBOARD
P POWER DISTRIBUTION PANELBOARD

1 FIRST FLOOR
2 SECOND FLOOR

BRANCH CIRCUIT VOLTAGE DROP

CONDUCTOR AWG	#12	#10	#8
MAXIMUM CONDUCTOR LENGTH AT 120V	95	160	245
MAXIMUM CONDUCTOR LENGTH AT 277V	225	375	565
MAXIMUM CONDUCTOR LENGTH AT 208V (1) PHASE	170	280	425
MAXIMUM CONDUCTOR LENGTH AT 480V (1) PHASE	390	650	985
GROUND CONDUCTOR AWG	#12	#10	#10

NOTES:

1.
INCREASE BRANCH CIRCUIT CONDUCTOR AS INDICATED.

2.
BASED ON 20 AMP CIRCUIT LOADED TO 10 AMP USING SINGLE PHASE, 2-WIRE CIRCUITS.

3.
SCHEDULE REPRESENTS MINIMUM CONDUCTOR SIZE BASED ON LENGTH OF BRANCH CIRCUIT CONDUCTOR FROM PANEL TO PHYSICAL CENTER OF LOAD TO OVERCOME VOLTAGE DROP. 3% VOLTAGE DROP ASSUMED.

4.
TRANSITION FROM LARGER CONDUCTOR SIZE TO #12 FOR FINAL TERMINATION TO OUTLET DEVICE. PROVIDE JUNCTION BOX WITHIN 10' OF OUTLET. EXTEND #12 CONDUCTOR TO OUTLET.

DEVICE SUBSCRIPTS

II	ROMAN NUMERAL INDICATES QUANTITY OF GANGED DEVICES UNDER COMMON FACEPLATE
a	LOWER CASE LETTER INDICATES DEVICE CONTROL ARRANGEMENT
aa	MULTIPLE LOWER CASE LETTERS INDICATE RELAY CONTROL ARRANGEMENT
7	NUMERAL INDICATES BRANCH CIRCUIT NUMBER
A	WITH AUXILIARY CONTACTS
B	REMOVE DEVICE AND INSTALL BLANK COVERPLATE
BF	BLANK FACE GFCI
BS	ITEM CONTROLLED BY BED STOP RELAY
C	ITEM INSTALLED FLUSH IN CEILING
C*	CONTROL POINT IDENTIFIER (* INDICATES CONTROL NUMBER)
D	120 VOLT DISCONNECT SWITCH ARRANGEMENT
DH	DOOR HARDWARE
E	EXISTING BACKBOX TO REMAIN AND BE REUSED
EO	EQUIPMENT SUPPLIED BY OWNER
EQ	ITEM INSTALLED IN EQUIPMENT
FL	ITEM INSTALLED FLUSH IN FLOOR
GFCI	GROUND FAULT CIRCUIT INTERRUPTING RECEPTACLE
GFI	GROUND FAULT CIRCUIT INTERRUPTING BREAKER PROTECTED
GFP	FEED THROUGH GROUND FAULT CIRCUIT INTERRUPTING PROTECTED
H	HORIZONTALLY MOUNTED
HA	HIGH ABUSE COVERPLATE
HG	HOSPITAL GRADE
IG	ISOLATED GROUND RECEPTACLE
K	KEY OPERATED
L	LOW VOLTAGE
M	MULLION MOUNTED
M*	MONITORING POINT IDENTIFIER (* INDICATES MONITORING POINT)
NL	NIGHT LIGHT RECEPTACLE
NLG	NIGHT LIGHT GFCI RECEPTACLE
P	PILOT LAMP SWITCH
PP	FOR AUTO DOOR PUSH PLATE
S	SURFACE MOUNTED
SG	SAFETY GROUNDING RECEPTACLE
SP	SURGE PROTECTOR RECEPTACLE
SW	SPLIT WIRED RECEPTACLE FOR REMOTE SWITCHING
TR	TAMPER RESISTANT
W	ITEM INSTALLED 44" A.F.F. OR AS DETAILED
WG	WIRE GUARD
WP	WEATHERPROOF
WPS	WEATHERPROOF SPRING COVER
Z*	DEVICE ZONE IDENTIFIER (* INDICATES ZONE NUMBER)

DIVISION 26 LEGEND

26 0000 GENERAL

- NEW EQUIPMENT
- EXISTING EQUIPMENT
- DETAIL AND/OR SECTION REFERENCE
- BRANCH CIRCUIT BOUNDARY

DRAWING NOTES AND DESIGNATIONS

- DRAWING KEYED NOTES
- BRANCH CIRCUIT NOTES
- EQUIPMENT DESIGNATIONS
- DETAIL DESIGNATION: DETAIL NUMBER/SHEET NUMBER

26 0519 WIRE AND CABLE

5 3 1 P2LNL1 — THREE CIRCUIT HOME RUN IN NEC CONDUIT TO ASSOCIATED PANELBOARD.
- NUMBERS INDICATE CIRCUIT NUMBERS.
- ARROW INDICATES QUANTITY OF 20A-1P CIRCUITS.
- SLASH MARKS INDICATE QUANTITY OF #12 WIRES.

#10 30A-2P P2LNL1 — MULTI-CIRCUIT HOME RUN IN NEC CONDUIT TO ASSOCIATED PANELBOARD.
- SLASH MARKS INDICATE QUANTITY OF WIRES.
- PHASE WIRE SIZE SHOWN FOLLOWING THE # SYMBOL IF APPLICABLE

1LNL1-12 — NUMBER INDICATES SOURCE PANELBOARD AND CIRCUITS.

- NEUTRAL CONDUCTOR.
- GREEN GROUND WIRE. #12 AWG UNLESS OTHERWISE NOTED.
- SPLICE
- E — FEEDER (C-CRITICAL, E - EMERGENCY, E - EQUIPMENT, F - FIRE PUMP, G - GENERATOR, O - OPTIONAL, S - LIFE SAFETY, S - STANDBY)

LIGHTING BRANCH CIRCUITS

FA1 3 — FA1 LUMINAIRE TYPE; 3 CIRCUIT NUMBER (AND PANELBOARD IF SPECIFICALLY DESIGNATED)

POWER BRANCH CIRCUITS

23 — 23 CIRCUIT NUMBER (AND PANELBOARD IF SPECIFICALLY DESIGNATED)

WIRING TERMINATIONS

- 1 DIRECT CONN. OR MATCHING RECEPTACLE FOR 120V EQUIPMENT
- 2 DIRECT CONNECTION OR MATCHING RECEPTACLE FOR 208V EQUIPMENT
- 3 DIRECT CONNECTION OR MATCHING RECEPTACLE FOR 480V EQUIPMENT
- EMS ENERGY MANAGEMENT SYSTEM CONTROL UNIT
- M MOTOR - NUMBER INSIDE INDICATES HORSEPOWER

26 0526 GROUNDING AND BONDING

- G — NEC GROUND CONDUCTOR
- GROUND ROD WITH WELDED TERMINATION
- MECHANICAL CONNECTION
- MOLDED FUSION WELD
- GROUND — EQUIPMENT ROOM GROUND BAR OF LENGTH INDICATED, 18" AFF
- TMGB — TELECOM MAIN GROUND BUS, 18" AFF
- TGB — TELECOM GROUND BUS, 18" AFF
- EARTH GROUND

26 053* RACEWAYS AND PATHWAYS

- CONDUIT TURNED UP
- CONDUIT TURNED DOWN
- CONDUIT CAPPED
- CONDUIT STUBBED AND BUSHED INTO ACCESSIBLE CEILING CAVITY
- SERVICE WEATHERHEAD
- SURFACE RACEWAY
- RACEWAY ROUTED DOWN FROM CEILING TO HORIZONTAL
- RACEWAY ROUTED UP FROM CEILING TO HORIZONTAL
- MULTI-OUTLET PLUG STRIP, 6" ABOVE BACKSPLASH OR AS NOTED

26 0535 BOXES AND CABINETS

- J — DEVICE BOX WITH BLANK COVER PLATE
- SINGLE SERVICE FLUSH FLOOR BOX ASSEMBLY WITH INDICATED DEVICES
- MULTI - SERVICE FLUSH FLOOR BOX ASSEMBLY WITH INDICATED DEVICES
- POKE-THRU (TOMBSTONE) ASSEMBLY WITH INDICATED DEVICES
- MULTI - SERVICE FLUSH POKE-THRU WITH INTEGRATED RECEPTACLES AND DATA DEVICES AS INDICATED
- MULTI - SERVICE FLUSH TABLE BOX ASSEMBLY WITH INDICATED DEVICES
- PULL / JUNCTION BOX
- CABINET, TOP OF TRIM 6'-2" AFF

26 0543 UNDERGROUND CONSTRUCTION

- DBC* — CABLE (DBC = DIRECT BURIED CABLE, DB = DUCT BANK) (* = NUMBER)
- MANHOLE
- HANDHOLE
- TRANSFORMER MANHOLE OR VAULT

26 0575 CONDUIT ROUGH-IN SYSTEMS

- 3/4"D x 8'H x INDICATED WIDTH PLYWOOD BACKBOARD
- TELECOMMICATIONS ROUGH-IN BOX WITH BLANK COVERPLATE, 18" AFF
- TELECOMMICATIONS ROUGH-IN BOX WITH BLANK COVERPLATE, 44" AFF
- TELECOMMICATIONS ROUGH-IN BOX WITH BLANK COVERPLATE, 4'-6" AFF
- MULTI-SERVICE FLUSH FLOOR BOX WITH 1-1/4" CONDUIT STUB TO ADJACENT CEILING SPACE
- MULTI-SERVICE FLUSH FLOOR BOX POKE-THRU ASSEMBLY WITH 1-1/4" CONDUIT STUB TO ADJACENT CEILING SPACE

26 0578 MULTI-SERVICE BOXES AND RACEWAYS

- FCR — FLOOR BOX, CONCEALED, WITH REGRESSED DEVICES

26 0923 AUTOMATIC LIGHTING CONTROL EQUIPMENT

- ELECTRONIC TIMER, 44" AFF
- STAND ALONE OCCUPANCY SENSOR, 44" AFF
- SYSTEM TYPE WIDE VIEW OCCUPANCY SENSOR, 7'-6" AFF OR CEILING MOUNTED, ARROW INDICATES DIRECTION
- SYSTEM TYPE 360° LOCAL VIEW OCCUPANCY SENSOR, CEILING MOUNTED
- SYSTEM TYPE NARROW VIEW OCCUPANCY SENSOR, 7'-6" AFF OR CEILING MOUNTED, ARROW INDICATES DIRECTION
- EXTERIOR MOTOR SENSOR
- TC — ELECTRONIC TIME SWITCH, 4'-6" AFF
- PC — EXTERIOR PHOTOCELL, 1'-0" ABOVE ROOF, AIMED NORTH

26 0933 LOCAL DIMMING SYSTEMS

- PDC — PROGRAMMING DIMMING CONTROL STATION, 44" AFF
- PSC — PARTITIONED SPACE CONTROL STATION, 44" AFF
- SDC — SCENE DIMMING CONTROL STATION, 44" AFF
- DDC — DIMMING CONTROL EQUIPMENT CABINET, TOP OF TRIM 6'-2" AFF
- LPC — LIGHTING PERSONAL COMPUTER, DESK MOUNTED UNIT WITH WALL BOX CONNECTORS MOUNTED 18" AFF
- FBC — FULL BRIGHTNESS CONTROL (PANIC) STATION, 5'-0" AFF

26 0936 WALLBOX DIMMING SYSTEMS

- DMS — DIMMING MASTER STATION, 44" AFF
- RCS — REMOTE CONTROL STATION, 44" AFF

26 0943 NETWORKED LIGHTING CONTROL

- LRC — LIGHTING RELAY CABINET, TOP OF TRIM 6'-2" AFF
- LCM — LIGHTING CONTROL MODULE, (EDIT MOUNTING HEIGHT)
- LMO — LIGHTING MANUAL OVERRIDE SWITCH(ES), 44" AFF

26 1200 / 2200 TRANSFORMERS

- T — TRANSFORMER (PLAN DENOTATION)
- TRANSFORMER (SINGLE-LINE DENOTATION)
- 3-PHASE, 3-WIRE DELTA CONNECTION
- 3-PHASE WYE, NEUTRAL UNGROUNDED CONNECTION
- 3-PHASE WYE, NEUTRAL GROUNDED CONNECTION

26 2416 PANELBOARDS

- 480 VOLT PANELBOARD, TOP OF TRIM 6'-2" AFF
- 208 VOLT PANELBOARD, TOP OF TRIM 6'-2" AFF

26 2485 CONTACTORS

- GC — GENERAL PURPOSE CONTACTOR, 5'-0" AFF
- LC — LIGHTING CONTACTOR, 5'-0" AFF
- EC — ELEVATOR CONTACTOR, 5'-0" AFF

26 2726 WIRING DEVICES

- INDICATES DEVICES MOUNTED UNDER COMMON COVERPLATE AT LEG LOCATION
- B — DEVICE BOX WITH BLANK COVERPLATE, 18" AFF
- S — DINGLE POLE SWITCH, 44" AFF
- S3 — 3-WAY SWITCH, 44" AFF
- S4 — 4-WAY SWITCH, 44" AFF
- SM — MOMENTARY SWITCH, 44"AFF
- WALLBOX DIMMER (D-600W, D1-1000W, D2-1500W, D3-2000W, FD-FLUOR.)
- ELECTRONIC TIMER, 44" AFF (T-1 HOUR, T4-4 HOUR)
- NEMA 5-20R SINGLE RECEPTACLE, 18" AFF
- NEMA 5-20R RED SINGLE RECEPTACLE, 18" AFF
- NEMA 5-20R DUPLEX RECEPTACLE, 18" AFF
- NEMA 5-20R RED DUPLEX RECEPTACLE, 18" AFF
- NEMA 5-20R DOUBLE DUPLEX RECEPTACLE, 18" AFF
- NEMA 5-20R RED DOUBLE DUPLEX RECEPTACLE, 18" AFF
- G — NEMA 5-20R GFCI RECEPTACLE, 44" AFF
- G1 — NEMA 5-20R GFCI RECEPTACLE, 18" AFF
- W — NEMA 5-20R GFCI DUPLEX RECEPTACLE IN WP BOX WITH WP COVER, 18" A.G.
- PROVIDE NEMA CONFIGURATION TO MATCH INDICATED EQUIPMENT, 18" AFF
- EPO — EMERGENCY POWER OFF STATION, 54" AFF
- POKE-THRU (TOMBSTONE) ASSEMBLY WITH INDICATED DEVICES
- INDOOR SERVICE POLE WITH INDICATED DEVICES

26 2800 PROTECTIVE DEVICES

- CB 30 — SEPARATELY ENCLOSED CIRCUIT BREAKER, FLUSH MOUNTED 44" AFF (# INDICATES TRIP RATING)
- UNFUSED DISCONNECT SWITCH, SURFACE 44" AFF, GENERALLY 60" AFF IN EQUIPMENT ROOMS)
- 30 — FUSED DISCONNECT SWITCH, SURFACE MOUNTED 44" AFF, GENERALLY 60" AFF IN EQ, RMS (# INDICATES FUSE SIZE)
- BPS — BOLTED PRESSURE CONTACT SWITCH
- CIRCUIT BREAKER (SINGLE LINE DENOTATION)
- FUSE (SINGLE LINE DENOTATION)

26 3200 EMERGENCY POWER GENERATION

- M — ENGINE - GENERATOR SET
- TRANSFER SWITCH
- EAA — EGS ALARM ANNUNCIATOR, TOP OF TRIM 6'-2" AFF

26 4113 LIGHTNING PROTECTION SYSTEMS

- R — ROOF AIR TERMINAL
- R — PARAPET AIR TERMINAL
- VTR — VENT THROUGH ROOF CONNECTION
- STR — STACK THROUGH ROOF CONNECTION
- EF — EXHAUST FAN CONNECTION
- RD — ROOF DRAIN CONNECTION
- LP — LIGHTNING PROTECTION CONDUCTOR

26 5000 INTERIOR AND EXTERIOR LIGHTING

- FLUORESCENT STRIP LUMINAIRE
- FLUORESCENT LUMINAIRE
- POINT SOURCE LUMINAIRE
- EXIT LUMINAIRE
- TRACK SYSTEM WITH TRACK HEADS
- (EMERGENCY / NEC 700) LUMINAIRE CIRCUIT
- WALL MOUNTED LUMINAIRE
- WALL WASH LUMINAIRE
- EXTERIOR POLE MOUNTED LUMINAIRE
- EXTERIOR BOLLARD LUMINAIRE
- EXTERIOR GRADE MOUNTED FLOOD LUMINAIRE
- BATTERY PACK LUMINAIRE
- REMOTE BATTERY PACK LUMINAIRE
- BATT — REMOTE BATTERY FOR LIFE SAFETY LUMINAIRES

26 2913 MOTOR CONTROLLERS

- T — FRACTIONAL HORSEPOWER MOTOR CONTROLLER, RECESSED 48" AFF OR ABOVE CEILING (MANUAL THERMAL SWITCH)
- 30 — COMB. MOTOR CONTROLLER/DISCONNECT, 44" AFF (5'-0" IN EQUIP. ROOMS)
- VFD — VARIABLE FREQUENCY DRIVE
- VSD — VARIABLE SPEED DRIVE

28 3100 FIRE ALARM SYSTEMS

- F — MANUAL PULL STATION, 44" AFF
- FJ — FIRE PHONE JACK STATION, 44" AFF
- 135 — STROBE LIGHT, TOP EVEN WITH TOP OF DOOR BUCK (# INDICATES CANDELA)
- 135 — STROBE LIGHT, CEILING MOUNTED (# INDICATES CANDELA)
- 135 — HORN STROBE, TOP EVEN WITH TOP OF DOOR BUCK (# INDICATES CANDELA)
- 135 — HORN STROBE, CEILING MOUNTED (# INDICATES CANDELA)
- H — HORN, 18" BELOW CEILING
- H — HEAT DETECTOR, COMBINATION RATE OF RISE/FIXED 135°F, CEILING MOUNT
- S — SMOKE DETECTOR, SURFACE CEILING MOUNTED
- DH — ELECTRO-MAGNETIC DOOR HOLDER
- FAP — FIRE ALARM ANNUNCIATOR PANEL, TOP OF TRIM 6'-2" AFF
- SCP — SMOKE CONTROL PANEL, TOP OF TRIM 6'-2" AFF

GENERAL NOTES

KEY NOTES

LEGEND

PROJECT NORTH
TRUE NORTH

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Vancouver ■ Victoria ■ Washington DC

Drawing Title: LEGENDS, SYMBOLS & ABBREVIATIONS

Approved: Project Director
Approver

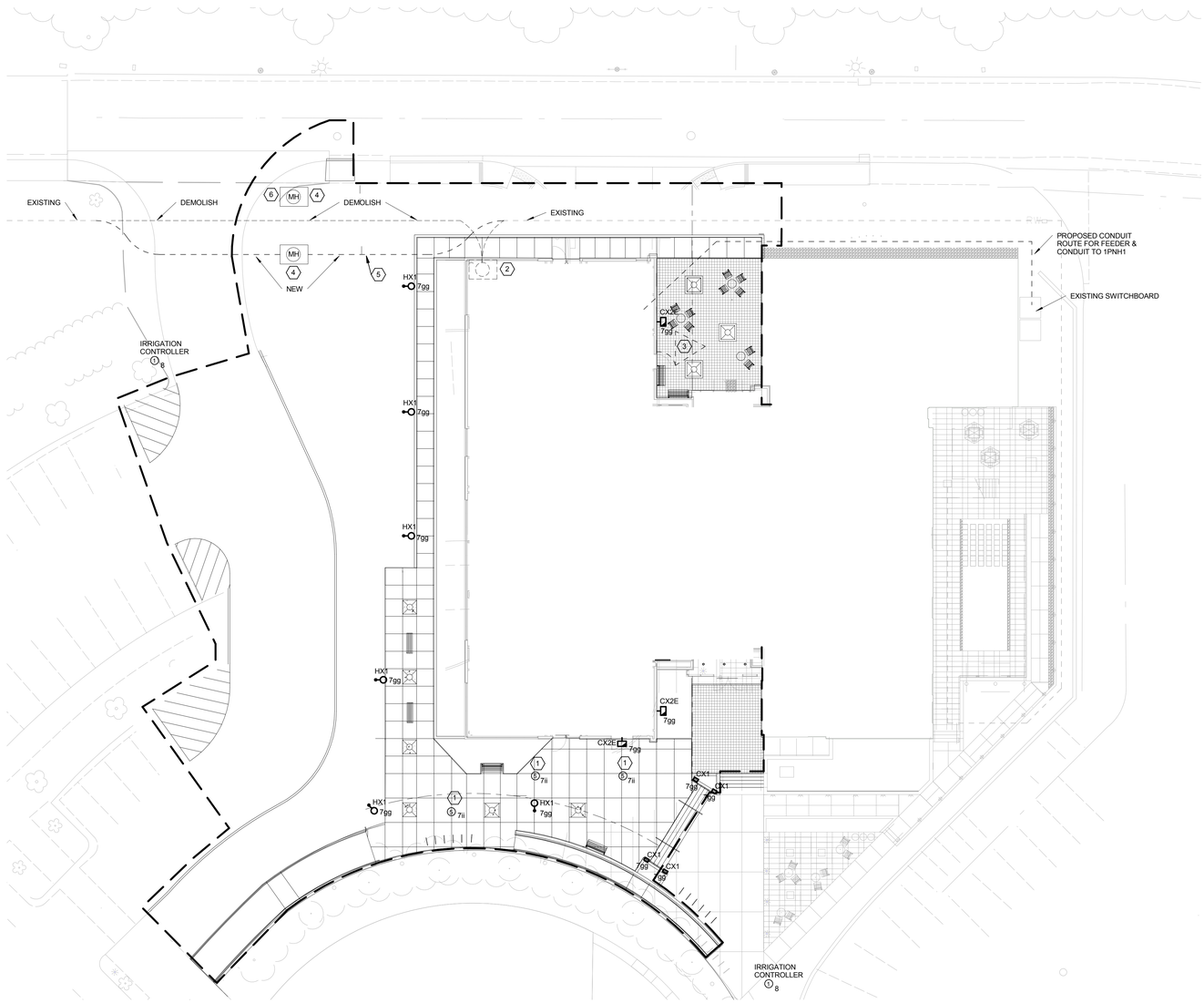
Project Title: VA SIMULATION CENTER

Location: Veterans Affairs Palo Alto Heath Care System, 3801 Miranda Ave,Palo Alto, CA 94304

Date: JUNE 14, 2013 | Checked: RJG | Drawn: JSS

VA Project Number: 640-385
Building Number: 105
Drawing No. E0001

VA PAHCS Veterans Affairs Palo Alto Health Care System
Department of Veterans Affairs



1 SITE PLAN
1/16" = 1'-0"

GENERAL NOTES

KEY NOTES

1.
CONNECTION FOR SIGNAGE.

2.
EXISTING MANHOLE TO BE REMOVED. PROVIDE A NEW MANHOLE AND CONDUITS/FEEDER AS SHOWN. SEE CIVIL DRAWINGS FOR MORE INFORMATION.

3.
NEW GROUNDING COUNTERPOISE. SEE 6/E0701 FOR MORE DETAILS

4.
REFER TO DETAILS FOR MANHOLE DIMENSIONS.

5.
(2) SETS OF 3#2/0, 15KV CONDUCTOR AND 1#4/0G IN 4"C AND (2) SPARE 4"C (TOTAL OF (4) CONDUITS). SEE DETAILS FOR DUCT BANK CONFIGURATION.

6.
SEE TELECOM DRAWINGS AND SPECIFICATIONS FOR SCOPE OF WORK REGARDING NEW TELECOM MANHOLE.

BRANCH CIRCUIT NOTES

1.
UNLESS OTHERWISE NOTED, WIRE ALL 277V DEVICES TO PANELBOARD 1LNH1 LOCATED IN ELEC RM 165.

2.
UNLESS OTHERWISE NOTED, WIRE ALL 120V DEVICES TO PANELBOARD 1LNL2 LOCATED IN ELEC RM 165.

LEGEND

PROJECT NORTH
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Drawing Title
SITE PLAN

Approved: Project Director
Approver

Project Title
VA SIMULATION CENTER

Location
Veterans Affairs Palo Alto Heath Care System
3801 Miranda Ave,Palo Alto, CA 94304

Date
JUNE 14, 2013

Checked
RJG

Drawn
JSS

VA Project Number:
640-385

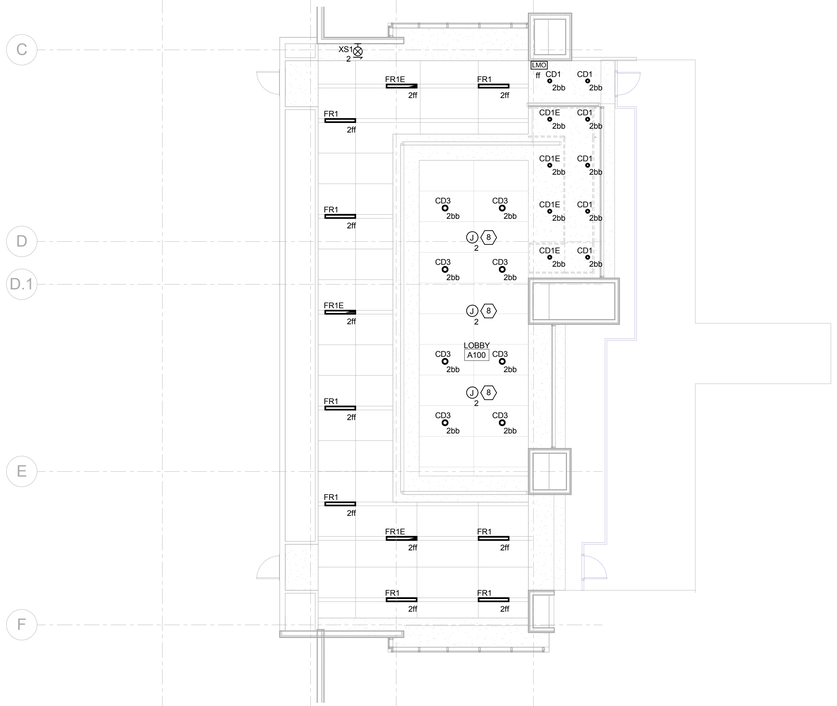
Building Number:
105

Drawing No.
E0051

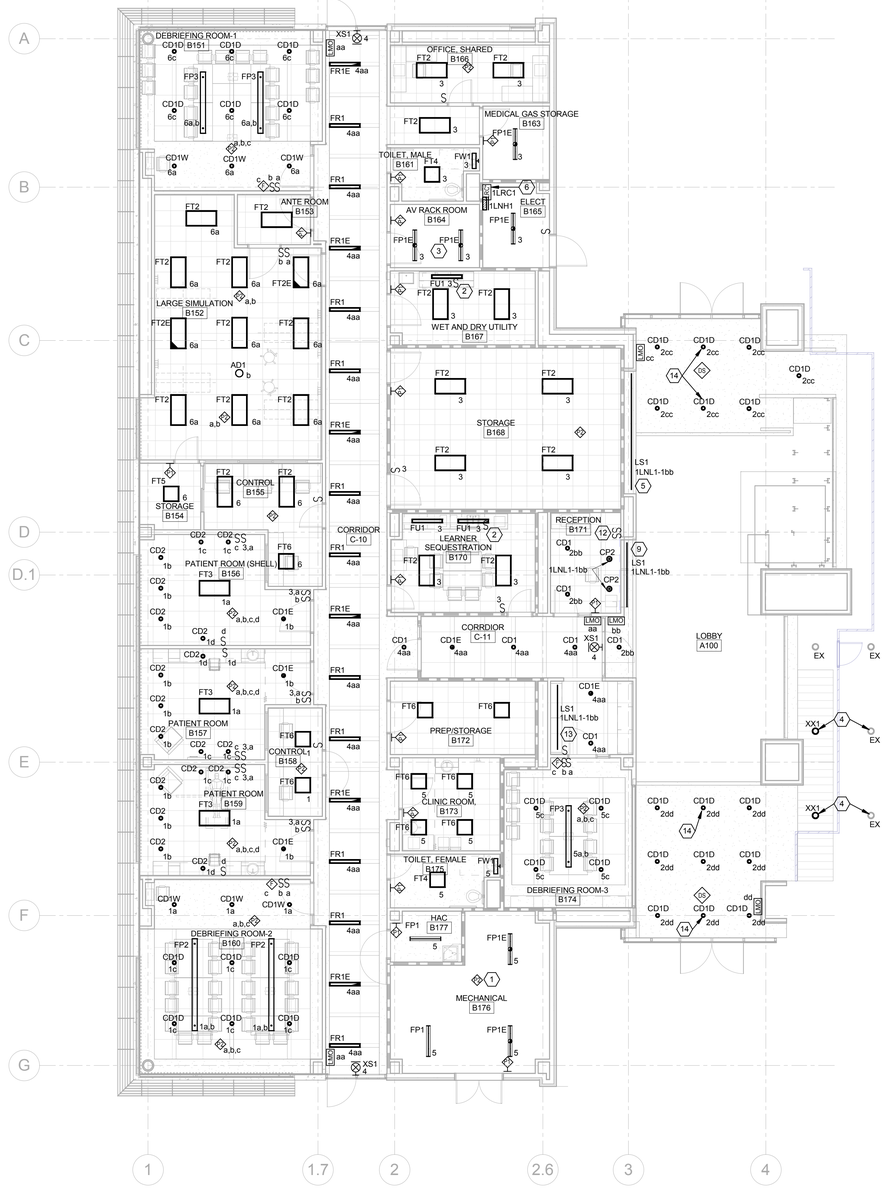
VA PAHCS
Veterans Affairs Palo Alto Health Care System

Department of Veterans Affairs

3 LEVEL 01 BUILDING PLAN
3/64" = 1'-0"



2 LEVEL 02 LIGHTING PLAN
1/8" = 1'-0"



1 LEVEL 01 LIGHTING PLAN
1/8" = 1'-0"

GENERAL NOTES

KEY NOTES

1.
SUSPEND OCCUPANCY SENSOR FROM DECK TO BOTTOM LEVEL OF LIGHT FIXTURES.

2
INSTALL SWITCH UNDER CABINETS.

3.
ARRANGE PENDANT LIGHT FIXTURES SO AS NOT TO INTERFERE WITH CABLE TRAY AND TELECOM RACKS.

4.
PROVIDE NEW LIGHT FIXTURE "XX1" TO MATCH EXISTING. WIRE TO EXISTING CIRCUIT/CONTROL.

5.
PROVIDE DIRECT CONNECTION TO POWER SUPPLY FOR LED STRIP "LS1" TO RUN CONTINUOUSLY AROUND SIDES AND TOP OF COVE FRAMED AROUND ART WORK LOCATION. SEE 1/A0852 FOR MORE INFORMATION. FIXTURE SHALL BE CONTROLLED BY RELAY PANEL AND BY LOCAL 1P SWITCH AS SHOWN BY KEY NOTE 12.

6.
LOCATION OF "1LRC1" WATTSTOPPER LIA24 RELAY CONTROL PANEL. PROVIDE COMMUNICATIONS CONNECTION TO EXISTING WATTSTOPPER RELAY CONTROL PANEL IN ADJACENT EDUCATION BUILDING ELECTRICAL ROOM DESIGNATED BY KEY NOTE #7.

7.
LOCATION OF EXISTING ELECTRICAL ROOM.

8.
PROVIDE J-BOXES WIRED TO LOBBY CIRCUIT/SWITCH LEG FOR FUTURE LIGHTING.

9.
PROVIDE DIRECT CONNECTION TO POWER SUPPLY FOR LED STRIP "LS1" INSTALLED INSIDE LOBBY DESK. SEE 1/A0902 AND 2/A0902 FOR MORE INFORMATION. FIXTURE SHALL BE CONTROLLED BY RELAY PANEL AND BY LOCAL 1P SWITCH AS SHOWN BY KEY NOTE 12.

10.
LOCATION OF EXISTING EXIT DOOR. SEE DRAWING E0201 FOR NEW DOOR HARDWARE CIRCUIT INFORMATION.

11.
LOCATION OF EXISTING EXIT DOOR. SEE DRAWING E0201 FOR NEW DOOR HARDWARE CIRCUIT INFORMATION.

12.
PROVIDE 1P SWITCH(ES) FOR DISPLAY/DESK LIGHTING.

13.
PROVIDE DIRECT CONNECTION TO POWER SUPPLY FOR LED STRIP "LS1" TO RUN AT THE TOP OF THE DISPLAY CASE. SEE X/A0852 FOR MORE INFORMATION. FIXTURE SHALL BE CONTROLLED BY RELAY PANEL AND BY ADJACENT 1P SWITCH.

14.
PROVIDE EMERGENCY BATTERY PACK WITH THIS FIXTURE.

BRANCH CIRCUIT NOTES

1.
UNLESS OTHERWISE NOTED, WIRE ALL 277V LIGHTING TO PANELBOARD 1LNH1 LOCATED IN ELEC RM 165.

2.
UNLESS OTHERWISE NOTED, WIRE ALL 120V LIGHTING TO PANELBOARD 1LNL1 LOCATED IN ELEC RM 165.

LEGEND

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1		

CONSULTANTS:

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Drawing Title
LEVEL 01 AND 02 LIGHTING PLAN

Approved: Project Director
Approver

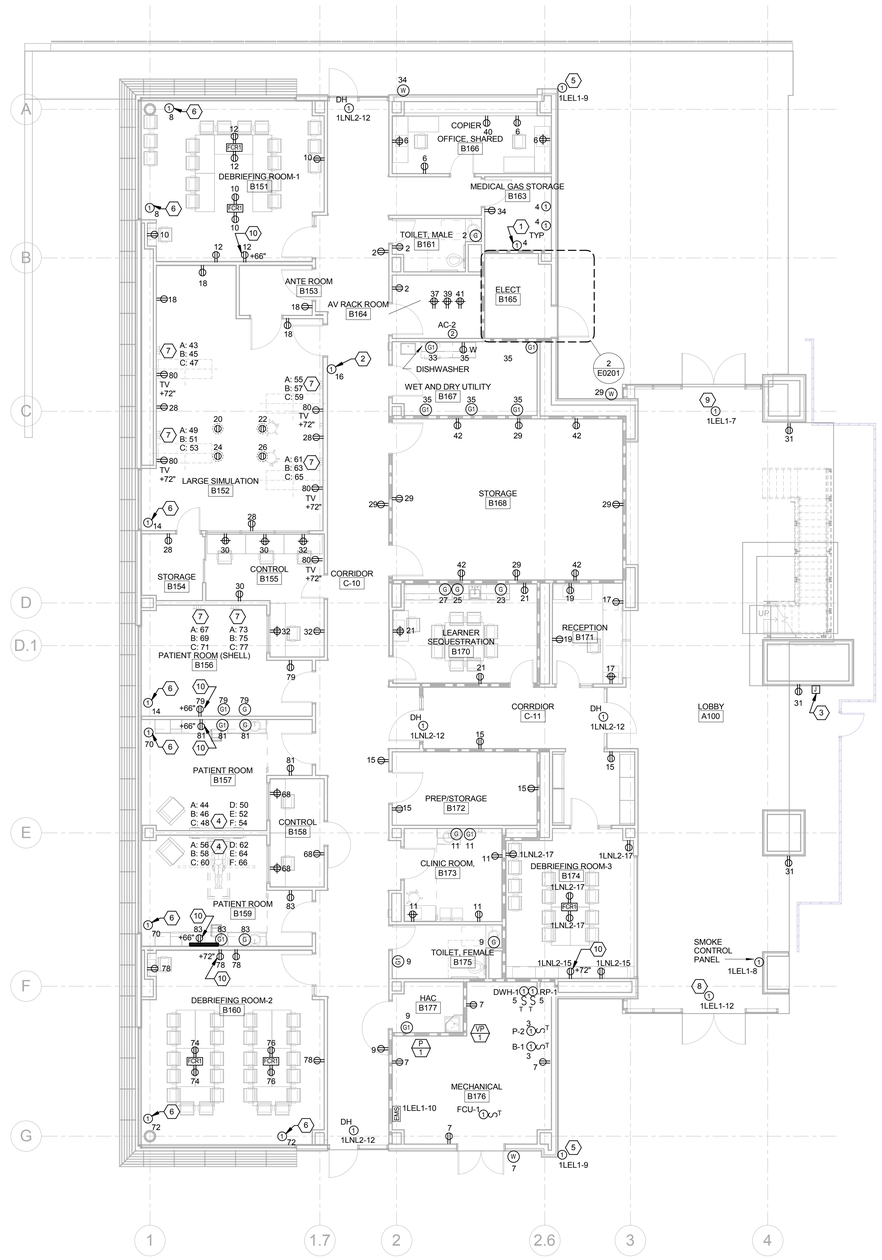
Project Title
VA SIMULATION CENTER

Location
Veterans Affairs Palo Alto Heath Care System
3801 Miranda Ave,Palo Alto, CA 94304

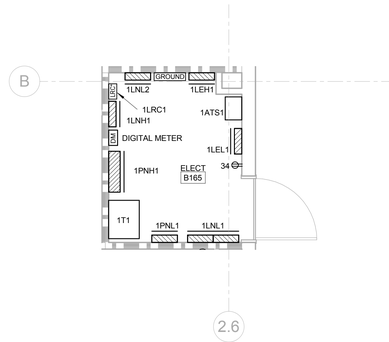
Date: JUNE 14, 2013
Checked: RJG
Drawn: JSS

VA Project Number: 640-385
Building Number: 105
Drawing No. E0101

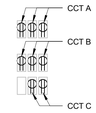
VA PAHCS Veterans Affairs Palo Alto Health Care System
Department of Veterans Affairs



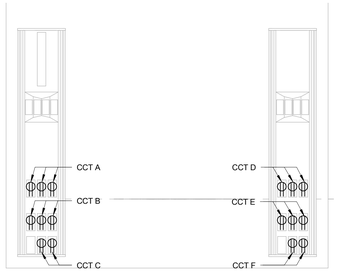
1 LEVEL 01 PLAN
1/8" = 1'-0"



2 ENLARGED ELECTRICAL RM B165
1/4" = 1'-0"



4 TYPICAL HEADWALL ELEVATION- WALL MOUNTED DEVICES
NTS



3 TYPICAL HEADWALL ELEVATION- COLUMN MOUNTED DEVICES
NTS

GENERAL NOTES

KEY NOTES

1.
CONNECTIONS FOR GAS MANIFOLDS. COORDINATE WITH EQUIPMENT MANUFACTURER.

2.
CONNECTION FOR GAS ALARM PANEL.

3.
PROVIDE J-BOX AND 3/4"C TO ACCESSIBLE CEILING SPACE FOR DIRECTORY DISPLAY. CONFIRM EXACT MOUNTING HEIGHT WITH EQUIPMENT SUPPLIER.

4.
COLUMN MOUNTED DEVICES. SEE 3/E0201 FOR TYPICAL CIRCUIT DESIGNATIONS. CIRCUIT ASSIGNMENTS ARE SHOWN ON FLOOR PLANS. (EXAMPLE- A:13 IS TOP/LEFT (3) RECEPTACLES WIRED TO CIRCUIT13 ON PANEL 1LNL1) SEE DETAIL 1/A0801 FOR MORE INFORMATION.

5.
CONNECTION TO EXTERIOR CCTV CAMERA. COORDINATE EXACT LOCATION WITH SECURITY VENDOR.

6.
CONFIRM EXACT LOCATION OF MECHO-SHADE IN THE FIELD.

7.
WALL MOUNTED DEVICES. SEE 4/E0201 FOR TYPICAL CIRCUIT DESIGNATIONS. CIRCUIT ASSIGNMENTS ARE SHOWN ON FLOOR PLANS. (EXAMPLE- A:13 IS TOP (3) RECEPTACLES WIRED TO CIRCUIT13 ON PANEL 1LNL1) SEE DETAIL 5/A0801 FOR MORE INFORMATION.

8.
LOCATION OF SOUTH DOOR HARDWARE. CONTINUE CIRCUIT TO NEW DOOR HARDWARE ON EXISTING DOOR AS SHOWN BY KEYED NOTE #10 ON SHEET E0101.

9.
LOCATION OF NORTH DOOR HARDWARE. CONTINUE CIRCUIT TO NEW DOOR HARDWARE ON EXISTING DOOR AS SHOWN BY KEYED NOTE #11 ON SHEET E0101.

10.
COORDINATE EXACT LOCATION WITH TV MOUNTING BRACKET.

BRANCH CIRCUIT NOTES

1.
UNLESS NOTED OTHERWISE, WIRE ALL 208/120V DEVICES TO PANELBOARD 1LNL1 LOCATED IN ELEC RM B165.

2.
UNLESS NOTED OTHERWISE, WIRE ALL 480/277V DEVICES TO PANELBOARD 1LNH1 LOCATED IN ELEC RM B165.

LEGEND

PROJECT NORTH
TRUE NORTH

ISSUE FOR BID

Revisions	Date
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Drawing Title
LEVEL 01 POWER PLAN

Approved: Project Director
Approver

Project Title
VA SIMULATION CENTER

Location
Veterans Affairs Palo Alto Heath Care System
3801 Miranda Ave,Palo Alto, CA 94304

Date: JUNE 14, 2013
Checked: RJG
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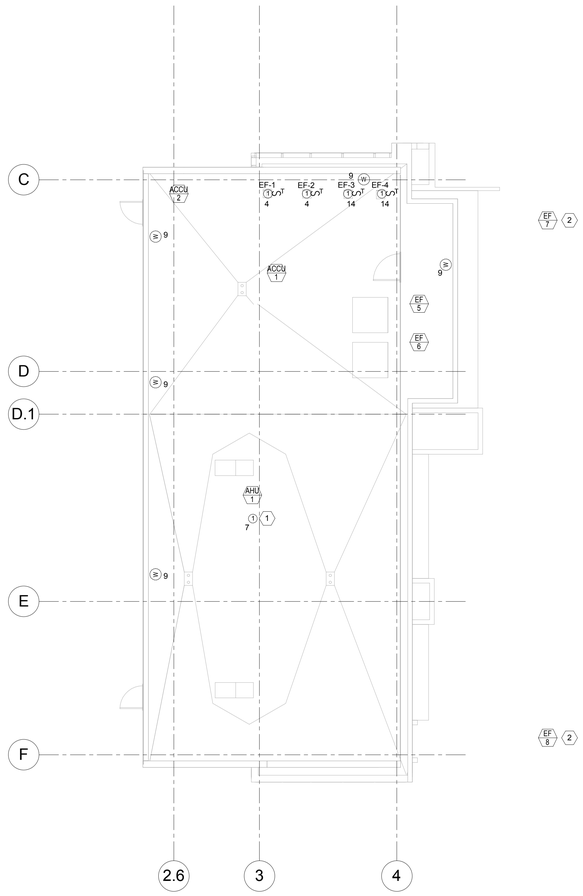
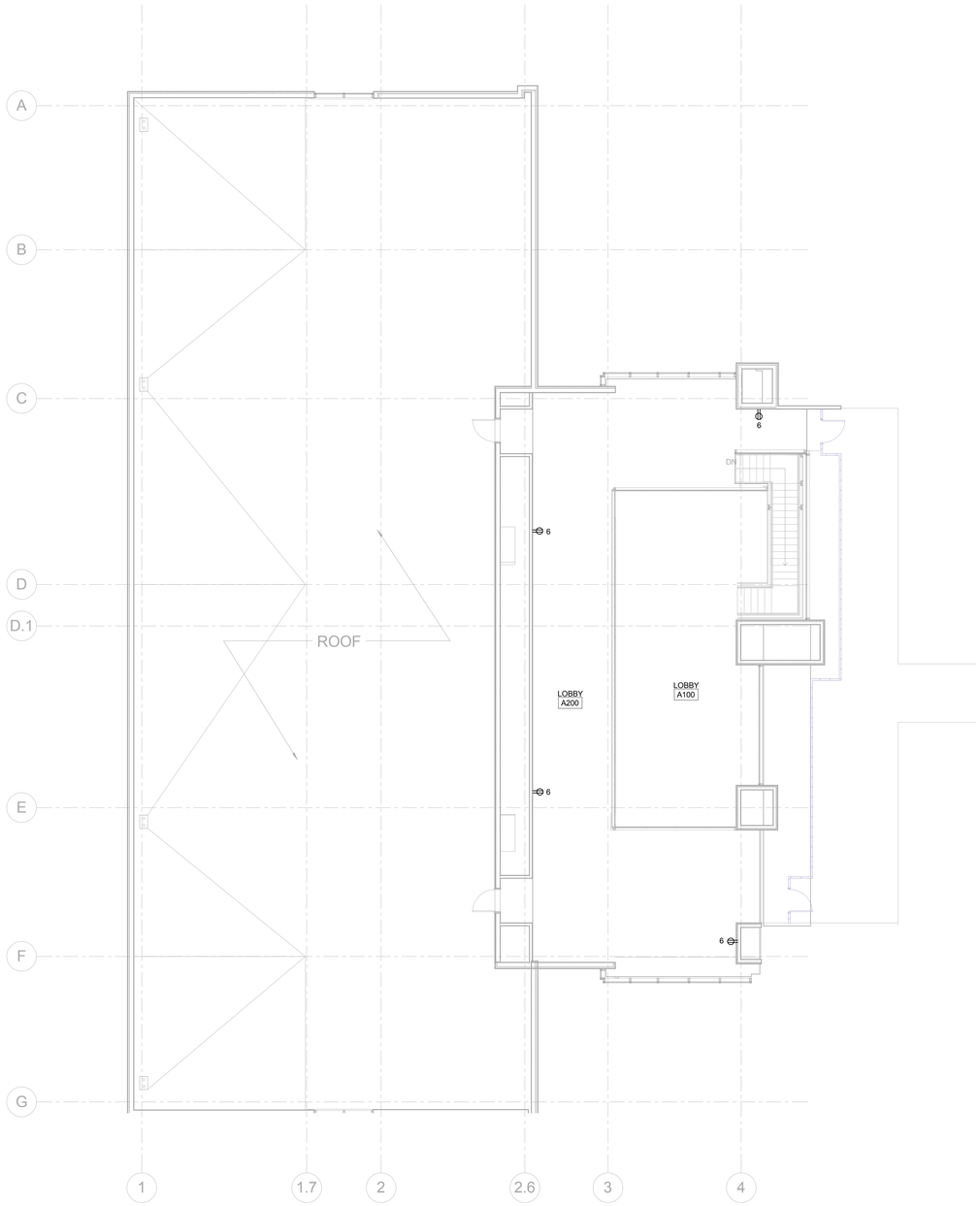
VA Project Number: 640-385
Building Number: 105
Drawing No. E0201

VA PAHCS Veterans Affairs Palo Alto Health Care System
Department of Veterans Affairs



2 ROOF PLAN
1/8" = 1'-0"



1 LEVEL 02 PLAN
1/8" = 1'-0"

GENERAL NOTES

KEY NOTES

1.
CONNECTION FOR RECEPTACLE(S) AND LIGHTING PROVIDED WITH AHU-1.

2.
LOCATED ON ROOF OF EXISTING BUILDING. SEE MECHANICAL DRAWINGS FOR EXACT LOCATION.

BRANCH CIRCUIT NOTES

1.
UNLESS OTHERWISE NOTED, WIRE ALL 208/120V DEVICES TO PANELBOARD 1LNL2 LOCATED IN ELEC RM B165.

2.
UNLESS OTHERWISE NOTED, WIRE ALL 480V DEVICES TO PANELBOARD 1LNH1 LOCATED IN ELEC RM B165.

LEGEND

PROJECT NORTH
TRUE NORTH

ISSUE FOR BID

Revisions	Date
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Drawing Title
LEVEL 02 AND ROOF POWER PLAN

Approved: Project Director
Approver

Project Title
VA SIMULATION CENTER

Location Veterans Affairs Palo Alto Heath Care System
3801 Miranda Ave,Palo Alto, CA 94304

Date JUNE 14, 2013 | Checked RJG | Drawn JSS

VA Project Number: 640-385

Building Number: 105

Drawing No. E0202

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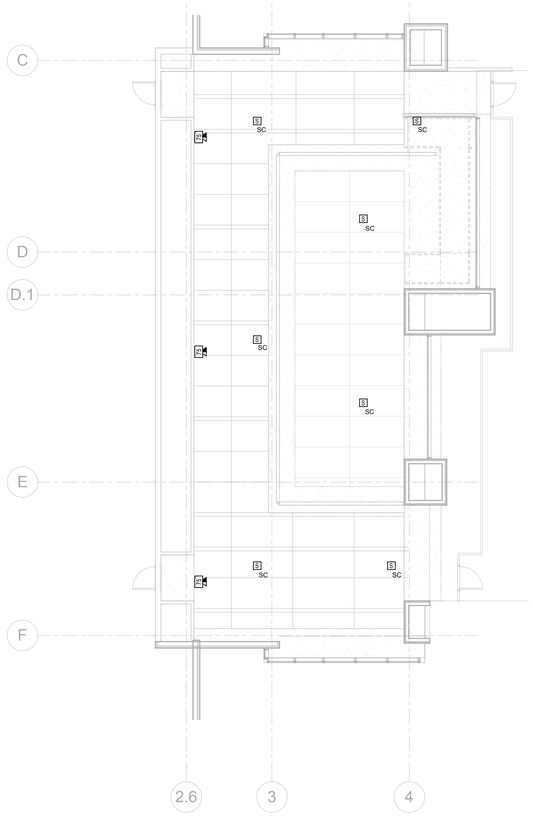
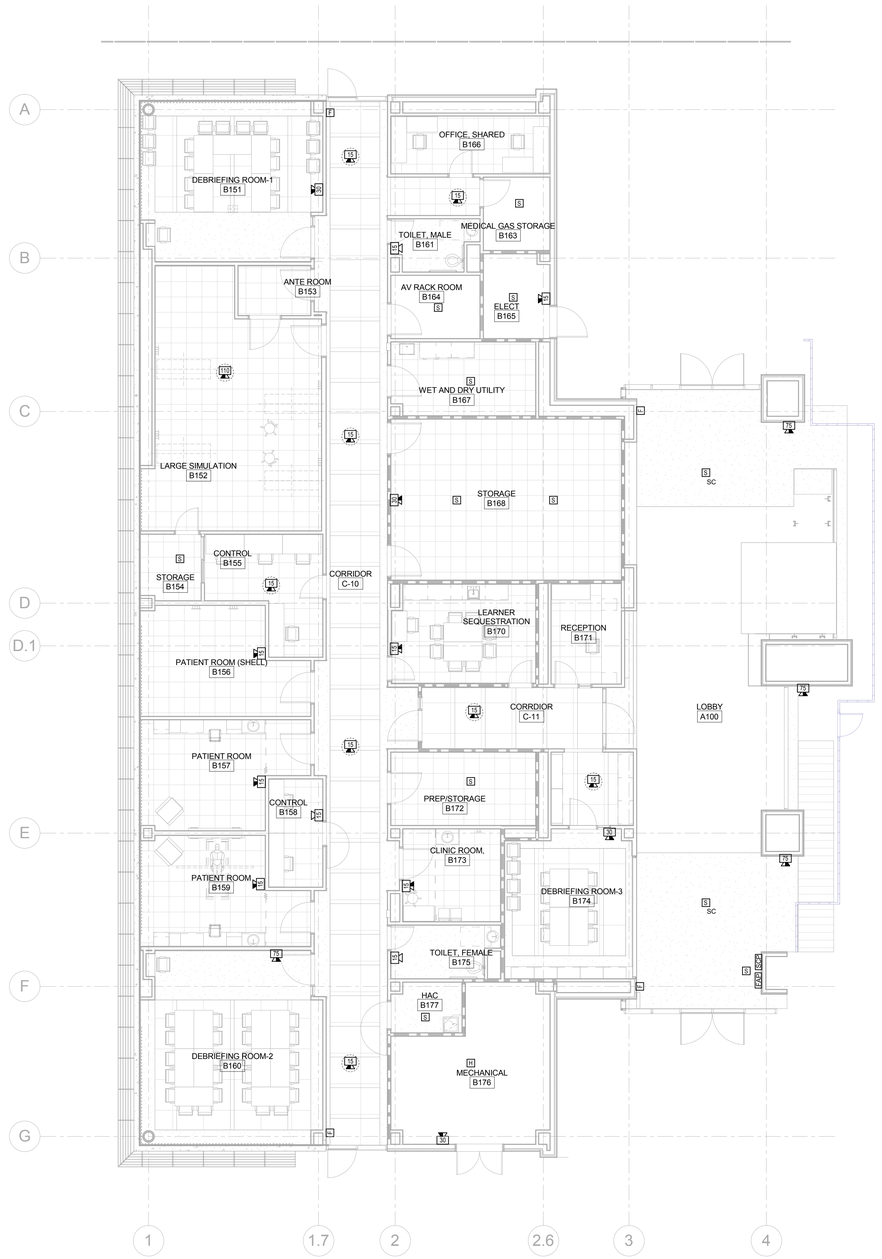
Department of Veterans Affairs



2 LEVEL 02 SYSTEMS PLAN
1/8" = 1'-0"



1 LEVEL 01 SYSTEMS PLAN
1/8" = 1'-0"

GENERAL NOTES

1.
AN EXISTING FIRE ALARM SYSTEM WAS INSTALLED AS A PART OF THE EDUCATION CENTER SCOPE OF WORK AS SHOWN ON ENGINEERED DRAWINGS DATED 6/30/2012. THE DEVICES SHOWN ON THIS SHEET ARE AN EXTENSION OF THAT EXISTING SYSTEM WHICH IS INSTALLED IN THE EXISTING ELECTRICAL ROOM (SEE 3/E0101). PROVIDE ALL COMPONENTS INCLUDING, BUT NOT LIMITED TO TERMINATION CABINETS, BOOSTER POWER SUPPLIES, REMOTE ANNUNCIATOR, NOTIFICATION DEVICES AND DETECTION DEVICES REQUIRED TO INSTALL A FUNCTIONING FIRE ALARM SYSTEM APPROVED BY THE AHJ.

2.
INVESTIGATE FIELD CONDITIONS OF EXISTING FIRE ALARM SYSTEM PRIOR TO BID.

3.
SMOKE CONTROL SYSTEM SHALL BE COMPATIBLE WITH EXISTING FIRE ALARM SYSTEM. ACTIVATION OF SYSTEM SHALL OCCUR ON DETECTION BY LOBBY/ATRIUM AREA SMOKE DETECTORS WITH SUBSCRIPT "SC".

KEY NOTES

LEGEND

PROJECT NORTH
TRUE NORTH

ISSUE FOR BID

Revisions		Date
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LEVEL 01 AND 02 SYSTEMS PLAN

Approved: Project Director
Approver

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Date JUNE 14, 2013 | Checked RJG | Drawn JSS

VA Project Number: 640-385
Building Number: 105
Drawing No. E0301

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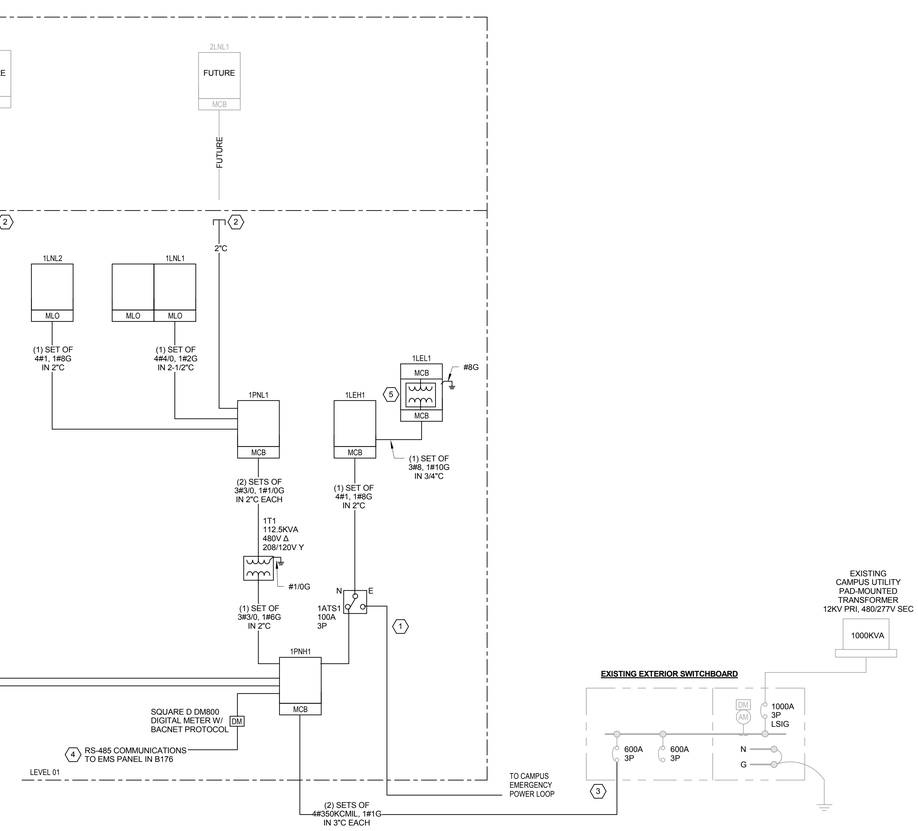
Department of Veterans Affairs



1 ONE LINE DIAGRAM

GENERAL NOTES

KEY NOTES

1.
INSTALLATION AND TERMINATION OF EMERGENCY POWER FEEDER AND CONDUIT IS A PART OF DIFFERENT SCOPE OF WORK TO BE COORDINATED BY THE OWNER.

2.
STUB UP CONDUIT(S) TO ACCESIBLE CEILING.

3.
SWITCHBOARD SHOWN AS EXISTING WILL BE INSTALLED IN A CONCURRENT PROJECT. COORDINATE CONDUIT AND FEEDER RUN AS NEEDED.

4.
REFER TO MECHANICAL SPEC SECTION 23-0923 FOR MORE INFORMATION ON EMS SYSTEM.

5.
THREE PHASE POWER CENTER WITH INTEGRAL 480V TO 208/120V, 9KVA TRANSFORMER WITH FACTORY INSTALLED 25A PRIMARY AND 25A SECONDARY MAIN CIRCUIT BREAKERS.

LEGEND

PROJECT NORTH
TRUE NORTH

ISSUE FOR BID

Revisions	Date
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Drawing Title
ONE LINE DIAGRAM

Approved: Project Director
Approver

Project Title
VA SIMULATION CENTER

Location
Veterans Affairs Palo Alto Heath Care System
3801 Miranda Ave,Palo Alto, CA 94304

Date
JUNE 14, 2013

Checked
RJG

Drawn
JSS

VA Project Number:
640-385

Building Number:
105

Drawing No.
E0501

VA PAHCS
Veterans Affairs
Palo Alto Health Care System

Department of Veterans Affairs

EQUIPMENT WIRING SCHEDULE

EQ TAG	DESCRIPTION	LOCATION	LOAD VOLT	LOAD PHASE	LOAD HP	LOAD KW	LOAD AMPS	FEED FROM PANEL	FEED FROM CCT	OCP SIZE	OCP POLE	WIRING NO.	WIRING SIZE	WIRING COND	DISCONNECT SIZE	DISCONNECT POLE	DISCONNECT FUSE	STARTER TYPE	STARTER SIZE	SEE NOTES
ACCU 1	AIR COOLED CONDENSING UNIT	ROOF	480	3			45.5	1PNH1	7,9,11	80	3	3 1	4 8G	1"						1
ACCU 2	AIR COOLED CONDENSING UNIT	ROOF	208	1			10.3	1LNL2	11,13	20	2	2 1	12 12G	3/4"						2
AHU 1	AIR HANDLING UNIT SUPPLY & RETURN FANS	ROOF	480	3	22.5		32	1PNH1	8,10,12	60	3	3 1	8 10G	3/4"						1
VP 1	VACUUM PUMP	MECH RM B176	208	1	3/4		6.4	1LNL2	1,3	20	2	2 1	12 12G	3/4"						2
P 1	PUMP- HOT WATER	MECH RM B176	480	3	2		3.4	1PNH1	20,22,24	20	3	3 1	12 12G	3/4"						2
EF 5	SMOKE EXHAUST FAN	ROOF	480	3	15		21	1LEH1	1,3,5	40	3	3 1	10 10G	3/4"				FVNR	2	
EF 6	SMOKE EXHAUST FAN	ROOF	480	3	15		21	1LEH1	8,10,12	40	3	3 1	10 10G	3/4"				FVNR	2	
EF 7	SMOKE EXHAUST FAN	ROOF	480	3	10		14	1LEH1	7,9,11	25	3	3 1	12 12G	3/4"				FVNR	2	
EF 8	SMOKE EXHAUST FAN	ROOF	480	3	10		14	1LEH1	13,15,17	25	3	3 1	12 12G	3/4"				FVNR	2	

EQUIPMENT NOTES:
1. SINGLE POINT CONNECTION. VSD PROVIDED BY MECHANICAL CONTRACTOR.
2. DISCONNECT PROVIDED WITH EQUIPMENT.

LIGHTING RELAY CONTROL SCHEDULE

Designation: 1LRC1
Location: ELEC. RM. B165

Relay #	Branch Circuit Panel	Branch Circuit Ckt. #	Sw. ID	Controlled Load Space/Area/Luminaire Tag	Control Schedule	Control Aux. Control
R1	1LNH1	4	aa	Corridor C-10, C-11	1	M
R2	1LNH1	2	bb	Lobby A100	1	M
R3	1LNH1	2	cc	North Entry Downlights	2	M,DS
R4	1LNH1	2	dd	South Entry Downlights	2	M,DS
R5	1LNH1	2	ff	Level 02 Corridor	1	M
R6	1LNH1	7	gg	Exterior Lighting	3	PC
R7	1LNL1	1	bb	Reception	1	M
R8	1LNH1	7	ii	Exterior Signage	3	PC
R9						
R10						
R11						
R12						
R13						
R14						
R15						
R16						
R17						
R18						
R19						
R20						
R21						
R22						
R23						
R24						

Design Schedules: (Shall be reviewed, approved, changed, &/or amended by Client)

	Day(s)	ON	OFF	Control Features
SCH-1	M-F	7am	6pm	ON override during scheduled OFF hours via local occupancy sensing devices, or local override switches
	SAT	8am	1pm	
	SUN/HOL		24 hrs	
SCH-2	M-F	7am	6pm	ON override during scheduled ON hours via daylight sensing control. OFF override via local override sw's.
	SAT	8am	1pm	
	SUN/HOL		24 hrs	
SCH-3	M-F	PC	PC	Photoelectric control ON (24/7/365 days per year) @ Dusk. Photoelectric control OFF (24/7/365 days per year) @ Dawn.
	SAT	PC	PC	
	SUN/HOL	PC	PC	
SCH-4	M-F	24 Hrs.	PC	
	SAT	24 Hrs.	PC	
	SUN/HOL	24 Hrs.	PC	

Abbreviations:
M Manual Override Switch
OS Occupancy Sensing Device
PC Photocell/Photoelectric Control
TS Time Switch
DS Daylight Sensor - For on/off control

LUMINAIRE SCHEDULE

TAG	DESCRIPTION	INSTALL'N METHOD	DEPTH	LAMP SPEC	LAMP QTY	BALLAST SPEC	BALLAST VOLT	INPUT WATTS	SHIELDING/OPTICS	FEATURES/OPTIONS	REFERENCED PRODUCTS	NOTES
AD1	3.32" RECESSED REMOTE CONTROL DOWNLIGHT	LG	10"	100W AR111	1	-	120	100	HONEYCOMB LENS	277 TO 120 STEPDOWN XFMR	LITELAB DIRECTOR DR7	
CD1	6" DIA DOWNLIGHT WITH HORZ MOUNTED LAMP	LG, DW	6-3/8"	32W TRT 4100K	1	ELEC	277	33	CLEAR DIFFUSE OPEN		LITHONIA 6HF PRESCOLITE CFT632HEB PHILIPS LIGHTOLIER 1101HF	
CD1D	6" DIA DOWNLIGHT WITH HORZ MOUNTED LAMP	LG, DW	6-3/8"	32W TRT 4100K	1	ELEC	277	33	CLEAR DIFFUSE OPEN	DIMMING BALLAST	LITHONIA 6HF PRESCOLITE CFT632HEB PHILIPS LIGHTOLIER 1101HF	
CD1E	6" DIA DOWNLIGHT WITH HORZ MOUNTED LAMP	LG, DW	6-3/8"	32W TRT 4100K	1	ELEC	277	33	CLEAR DIFFUSE OPEN	EM BATTERY PACK	LITHONIA 6HF PRESCOLITE CFT632HEB PHILIPS LIGHTOLIER 1101HF	
CD1W	6" DIA DOWNLIGHT WITH HORZ MOUNTED LAMP	LG, DW	6-3/8"	32W TRT 4100K	1	ELEC	277	33	WALL WASH REFLECTOR, CLEAR DIFFUSE OPEN		LITHONIA 6HF PRESCOLITE CFT632HEB PHILIPS LIGHTOLIER 1101HF	
CD2	6" DIA DOWNLIGHT WITH VERT MOUNTED LAMP	LG	10-3/4"	18W DTT 4100K	1	ELEC	277	19	CLEAR DIFFUSE OPEN		LITHONIA 6VF VANTAGE 46VF PHILIPS LIGHTOLIER 1101HF	
CD3	8" DIA DOWNLIGHT WITH VERT MOUNTED LAMP	LG	10-3/4"	42W TRT 4100K	1	ELEC	277	43	CLEAR DIFFUSE OPEN		LITHONIA 8VF PRESCOLITE CFT8 PHILIPS LIGHTOLIER 8023	
CP2	DECORATIVE PENDANT LIGHT	PENDANT	11.6"	32W TRT 4100K	1	ELEC	120	33	WHITE/FROST BUBBLE INFUSED GLASS GLOBE	CF MONOPOINT CANOPY	TECH LIGHTING SODA PENDANT EUREKA 4233 CONTRAST PS8811GWFF/P104CLTC3A32	
CX1	13" WIDE IN-WALL STEP LIGHT	RECESSED	NOT MORE THAN 9"	30W LED	1	ELEC	277	30	NATURAL ALUMINUM PAINT FINISH, LOUVERED FACEPLATE	CAST ALUMINUM GASKET SEALED HOUSING	BEGA 2040 LED REBELLE SIGHTLINES 1645 PHILIPS GARDCO 942L	
CX2E	BUILDING MOUNTED WALLPACK FIXTURE	WALL	9"	32W TRT 3500K	2	ELEC	277	65	TEMPERED, IMPACT RESISTANT, CLEAR GLASS LENS, FORWARD THROW	CAST ALUMINUM WITH BRONZE FINISH, EM BATTERY PACK	LITHONIA WST HUBBELL TRP PHILIPS GARDCO 101	2
FP1	4' INDUSTRIAL WIDE BODY STRIP LIGHT	PENDANT	3-3/4"	28W T5 4100K	2	ELEC	277	58	SYMETRIC REFLECTORS	WIRE GUARD, SWIVEL STEM	LITHONIA EJ COLUMBIA CSR PHILIPS LIGHTOLIER KIW4S	1
FP1E	4' INDUSTRIAL WIDE BODY STRIP LIGHT	PENDANT	3-3/4"	28W T5 4100K	2	ELEC	277	56	SYMETRIC REFLECTORS	WIRE GUARD, SWIVEL STEM	LITHONIA EJ COLUMBIA CSR PHILIPS LIGHTOLIER KIW4S	1
FP2	12' LINEAR PENDANT	PENDANT	2"	28W T5 4100K	2 PER 4'	ELEC	277	168	SEMI-SPECULAR ALUMINUM BAFFLES	DUAL CIRCUIT, 24" STEM	PEERLESS LIGHTEDGE EGSAM4	
FP3	8' LINEAR PENDANT	PENDANT	2"	28W T5 4100K	2 PER 4'	ELEC	277	112	SEMI-SPECULAR ALUMINUM BAFFLES	DUAL CIRCUIT, 24" STEM	PEERLESS LIGHTEDGE EGSAM4	
FR1	6" WIDE 4' LINEAR RECESSED	RECESSED	5-1/2"	28W T5 4100K	1	ELEC	277	32	HIGH PERFORMANCE FLUSH LENS		FOCAL POINT SEEM 6 MARK SL6FOTM GAMMALUX GB66RC2	3
FR1E	6" WIDE 4' LINEAR RECESSED	RECESSED	5-1/2"	28W T5 4100K	1	ELEC	277	32	HIGH PERFORMANCE FLUSH LENS	EM BATTERY PACK	FOCAL POINT SEEM 6 MARK SL6FOTM GAMMALUX GB66RC2	3
FT2	2X4 TROFFER	LG, DW	3-11/16"	28W T5 4100K	2	ELEC	277	57	A19 ACRYLIC LENS		LITHONIA SP5 COLUMBIA ST8 PHILIPS DAYBRITE 2DP	
FT2E	2X4 TROFFER	LG, DW	3-11/16"	28W T5 4100K	2	ELEC	277	57	A19 ACRYLIC LENS	EM BATTERY PACK	LITHONIA SP5 COLUMBIA ST8 PHILIPS DAYBRITE 2DP	
FT3	2X4 TROFFER	LG, DW	3-11/16"	28W T5 4100K	3	ELEC	277	85	A19 ACRYLIC LENS		LITHONIA SP5 COLUMBIA ST8 PHILIPS DAYBRITE 2DP	
FT4	2X2 TROFFER	DW	3.6"	14W T5 4100K	2	ELEC	277	29	ARCHED ACRYLIC PANELS WITH A CENTER FROSTED ACRYLIC DIFFUSER		FOCAL POINT BIRDIE MARK DAT-RD-SS PHILIPS LEDALITE VECTRA	
FT5	2X2 TROFFER	LG, DW	3-11/16"	14W T5 4100K	2	ELEC	277	29	A19 ACRYLIC LENS		LITHONIA SP5 COLUMBIA ST8 PHILIPS DAYBRITE 2DP	
FT6	2X2 TROFFER	LG, DW	3-11/16"	14W T5 4100K	3	ELEC	277	43	A19 ACRYLIC LENS		LITHONIA SP5 COLUMBIA ST8 PHILIPS DAYBRITE 2DP	
FU1	4' UNDERCABINET LIGHT	SURFACE PER ARCH DETAIL		28W T5	1	ELEC	277	30	CLEAR, PRISMATIC ACRYLIC DIFFUSER		COLUMBIA UC LITHONIA 2UC PHILIPS DAYBRITE 5UC	
FW1	RESTROOM VANITY FIXTURE	S	3.9"	14W T5	2	ELEC	277	30	FLOATING WHITE GLASS DIFFUSER	SATIN NICKEL	TECH LIGHTING LUNA	
HX1	PEDESTRIAN POST TOP FIXTURE	CONC. BASE		70W ED17 CMH 3000K	1	MAG HPF	277	80	TEMPERED GLASS LENS	ALUMINUM DIE CAST, DOMED OVAL HOUSING, STRAIGHT 15'X4" STEEL POLE	HESS AMERICA ATHENS 640 SERIES KIM STS PHILIPS LUMEC OVAL SERIES	
LS1	LED STRIP LIGHT	S	1/8"	LED 3500K		REMOTE ELEC	120	3 PER FOOT		FIELD LENGTH TRIMMED, SELF-ADHESIVE BACKING	WAC LIGHTING- INVISILED 24V PRO TIVOLI GM LIGHTING LTR300-WW	
XS1	EXIT SIGN	S	8-1/4"	LED		ELEC	277	5		WHITE FINISH	LITHONIA LQC SERIES DUALLITE LEDS PHILIPS CHLORIDE ER55L	

GENERAL NOTES:
A NAMING OF THE ABOVE MANUFACTURERS DOES NOT NECESSARILY IMPLY ACCEPTANCE OF THEIR STANDARD PRODUCTS. IT REMAINS THE RESPONSIBILITY OF THE LIGHTING REPRESENTATIVES, DISTRIBUTORS AND CONTRACTORS BIDDING THE PROJECT TO VERIFY COMPLIANCE WITH ALL PERFORMANCE, AESTHETIC, QUALITY AND DIMENSIONAL ASPECTS OF PROPOSED EQUIVALENT FIXTURES.
B ANY QUESTIONS OF EQUIVALENCY SHALL BE BROUGHT TO THE ATTENTION OF THE DESIGN TEAM DURING BIDDING FOR RESOLUTION.
C INCLUSION HEREIN OF MANUFACTURER'S SERIES &/OR MODEL NUMBERS DOES NOT IMPLY UNCONDITIONAL PRODUCT APPROVAL - MANUFACTURER'S STANDARD PRODUCTS MAY REQUIRE CUSTOM MODIFICATIONS TO MEET THE REQUIREMENTS SPECIFIED HEREIN & IN THE PROJECT MANUAL.
D LISTED SIZES, LAMPING, & TYPES OF LUMINAIRES MAY NOT BE AVAILABLE FROM ANY GIVEN MANUFACTURER OR SERIES.
E ALERT ARCHITECT TO DISCREPANCIES PRIOR TO BID.

ABBREVIATIONS:

CONC	CONCRETE	LO-IRI	SEMI-SPECULAR	PPC	POLYESTER POWER COAT	S'SPEC	SEMI-SPECULAR
DW	DRYWALL	NT	NARROW TEE GRID	PRISM	PRISMATIC	SS	STAINLESS STEEL
D/I	DIRECT/INDIRECT	PAF	PAINT AFTER FABRICATION	REFL'T	REFLECTOR/REFLECTANCE	SUSP	SUSPENDED
EXP	EXPOSED	PARA	PARABOLIC	SP	SPLINE CEILING SYSTEM	TBS	TO BE SELECTED BY ARCH
LG	LAY-IN GRID	PL	PLASTER	SPEC		UNIV	UNIVERSAL 120-277VAC

LUMINAIRE NOTES:
1. MOUNT BOTTOM OF FIXTURE 8' AFF. CONFIRM STEM LENGTH IN FIELD.
2. MOUNT BOTTOM OF FIXTURE 12' AFF
3.
4.
5.

GENERAL NOTES

KEY NOTES

LEGEND

PROJECT NORTH
TRUE NORTH

ISSUE FOR BID

Revisions	Date
9	
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CONSULTANTS:

Seals and Signatures

ARCHITECT/ENGINEERS:

CANNONDESIGN
201 Mission Street, Suite 2400, San Francisco, California 94105 415.243.4170
Baltimore ■ Boston ■ Buffalo ■ Calgary ■ Chicago
Houston ■ Los Angeles ■ Mumbai ■ New York ■ Phoenix
St. Louis ■ San Francisco ■ Shanghai ■ Toronto
Vancouver ■ Victoria ■ Washington DC

Drawing Title: ELECTRICAL SCHEDULES

Approved: Project Director
Approver

Project Title: VA SIMULATION CENTER

Location: Veterans Affairs Palo Alto Heath Care System, 3801 Miranda Ave,Palo Alto, CA 94304

Date: JUNE 14, 2013 | Checked: RJG | Drawn: JSS

VA Project Number: 640-385
Building Number: 105
Drawing No. E0601

VA PAHCS Veterans Affairs Palo Alto Health Care System
Department of Veterans Affairs

PANEL: 1LNL2 | LOCATION: ELEC RM B165 | FED FROM:
DC DEVICE TYPE: Breaker | DEVICE FAMILY: Bolt On
ENCLOSURE: NEMA 1 | MOUNTING: Surface | VOLTAGE: 208/120
MAINS(A): MLO | WIRING: 3-Phase 4-Wire
CONTINUOUS(A): 100 | BUS SC RATING(A) 10000 | FAULT CURRENT(A): 5401

DC AMPS P	NOTES	DESCRIPTION	DEMAND CODE	VA	CKT	PHASE LOADS VA A	B	C	CKT	VA	DEMAND CODE	DESCRIPTION	NOTES	DC AMPS P
20 2		VP-1	LGST 1P	1331	1	666			2	0	SPARE	SPARE		20 1
"		"		-	3		1722		4	1057	1PHASE	EF-1, EF-2		20 1
20 1		SPARE	SPARE	0	5			720	6	720	RECP	LOBBY A200		20 1
20 1		AHU RECEPS & LTG	GENERAL	500	7	1000			8	500	GENERAL	IRRIGATION CONTROL		20 1
20 1		ROOF RECEPS	RECP	900	9		1338		10	504	MECH EQ	FCU-1		20 1
20 2		ACCU-2	MECH EQ	2142	11			2155	12	1200	GENERAL	DOOR HARDWARE		20 1
"		"		-	13	2128			14	1057	1PHASE	EF-3, EF-4		20 1
20 1		RM B174	RECP	360	15		360		16	0	SPARE	SPARE		20 1
20 1		RM B174	RECP	360	17			360	18	0	SPARE	SPARE		20 1
20 1		SPARE	SPARE	0	19	0			20	0	SPARE	SPARE		20 1
20 1		SPARE	SPARE	0	21		0		22	0	SPARE	SPARE		20 1
20 1		SPARE	SPARE	0	23			0	24	0	SPARE	SPARE		20 1
20 1		SPARE	SPARE	0	25	0			26	0	SPARE	SPARE		20 1
20 1		SPARE	SPARE	0	27		0		28	0	SPARE	SPARE		20 1
20 1		SPARE	SPARE	0	29			0	30	0	SPARE	SPARE		20 1
20 1		SPARE	SPARE	0	31	0			32	0	SPARE	SPARE		20 1
20 1		SPARE	SPARE	0	33		0		34	0	SPARE	SPARE		20 1
20 1		SPARE	SPARE	0	35			0	36	0	SPARE	SPARE		20 1
20 1		SPARE	SPARE	0	37	0			38	0	SPARE	SPARE		20 1
20 1		SPARE	SPARE	0	39		0		40	0	SPARE	SPARE		20 1
20 1		SPARE	SPARE	0	41			0	42	0	SPARE	SPARE		20 1

* PHASE TOTALS	VA	BUS TOTALS	KVA
* A-N	3643.3	CONNECTED	10.10
* B-N	3321.9	DEMAND	10.42
* C-N	3202.1	DESIGN	10.82

PANEL: 1PNH1 | LOCATION: ELEC RM B165 | FED FROM: EX SWBD
DC DEVICE TYPE: Breaker | DEVICE FAMILY: Bolt On
ENCLOSURE: NEMA 1 | MOUNTING: Surface | VOLTAGE: 480/277
MAINS(A): MCB | WIRING: 3-Phase 4-Wire
CONTINUOUS(A): 600 | BUS SC RATING(A) 30000 | FAULT CURRENT(A): 23002

DC AMPS P	NOTES	DESCRIPTION	DEMAND CODE	VA	CKT	PHASE LOADS VA A	B	C	CKT	VA	DEMAND CODE	DESCRIPTION	NOTES	DC AMPS P
100 3		BUS-1LNH1	NONE	7798	1	23134			2	61640	NONE	BUS 1T1		200 3
"		"		-	3		23134		4	-		"		"
"		"		-	5			23134	6	-		"		"
80 3		ACCU-1	MECH EQ	37828	7	20092			8	22447	MECH EQ	AHU-1		60 3
"		"		-	9		20092		10	-		"		"
"		"		-	11			20092	12	-		"		"
15 3		E-MON METER	GENERAL	50	13	17755			14	53223	NONE	BUS-1PNH1		100 3
"		"		-	15		17755		16	-		"		"
"		"		-	17			17755	18	-		"		"
100 3		SPARE	SPARE	0	19	942			20	2827	MECH EQ	P-1 HOT WATER PUMP		20 3
"		"		-	21		942		22	-		"		"
"		"		-	23			942	24	-		"		"
100 3		SPARE	SPARE	0	25	0			26	0	SPACE	SPACE		0 1
"		"		-	27		0		28	0	SPACE	SPACE		0 1
"		"		-	29			0	30	0	SPACE	SPACE		0 1
0 1		SPACE	SPACE	0	31	0			32	0	SPACE	SPACE		0 1
0 1		SPACE	SPACE	0	33		0		34	0	SPACE	SPACE		0 1
0 1		SPACE	SPACE	0	35			0	36	0	SPACE	SPACE		0 1
0 1		SPACE	SPACE	0	37	0			38	0	SPACE	SPACE		0 1
0 1		SPACE	SPACE	0	39		0		40	0	SPACE	SPACE		0 1
0 1		SPACE	SPACE	0	41			0	42	0	SPACE	SPACE		0 1

* PHASE TOTALS	VA	BUS TOTALS	KVA
* A-N	60769.1	CONNECTED	182.31
* B-N	60769.1	DEMAND	170.45
* C-N	60769.1	DESIGN	174.59

PANEL: 1LEH1 | LOCATION: ELEC RM B165 | FED FROM: 1PNH1
DC DEVICE TYPE: Breaker | DEVICE FAMILY: Bolt On
ENCLOSURE: NEMA 1 | MOUNTING: Surface | VOLTAGE: 480/277
MAINS(A): MLO | WIRING: 3-Phase 4-Wire
CONTINUOUS(A): 100 | BUS SC RATING(A) 30000 | FAULT CURRENT(A): 21456

DC AMPS P	NOTES	DESCRIPTION	DEMAND CODE	VA	CKT	PHASE LOADS VA A	B	C	CKT	VA	DEMAND CODE	DESCRIPTION	NOTES	DC AMPS P
40 3		EF-5		15040	1	6075			2	3800	NONE	BUS 1LEL1		25 3
"		"		-	3		6075		4	-		"		"
"		"		-	5			6075	6	-		"		"
25 3		EF-7		10027	7	8356			8	15040		EF-6		40 3
"		"		-	9		8356		10	-		"		"
"		"		-	11			8356	12	-		"		"
25 3		EF-8		10027	13	3342			14	0	SPARE	SPARE		20 1
"		"		-	15		3342		16	0	SPARE	SPARE		20 1
"		"		-	17			3342	18	0	SPARE	SPARE		20 1
0 1		SPACE	SPACE	0	19	0			20	0	SPARE	SPARE		20 1
0 1		SPACE	SPACE	0	21		0		22	0	SPACE	SPACE		0 1
0 1		SPACE	SPACE	0	23			0	24	0	SPACE	SPACE		0 1
0 1		SPACE	SPACE	0	25	0			26	0	SPACE	SPACE		0 1
0 1		SPACE	SPACE	0	27		0		28	0	SPACE	SPACE		0 1
0 1		SPACE	SPACE	0	29			0	30	0	SPACE	SPACE		0 1
0 1		SPACE	SPACE	0	31	0			32	0	SPACE	SPACE		0 1
0 1		SPACE	SPACE	0	33		0		34	0	SPACE	SPACE		0 1
0 1		SPACE	SPACE	0	35			0	36	0	SPACE	SPACE		0 1
0 1		SPACE	SPACE	0	37	0			38	0	SPACE	SPACE		0 1
0 1		SPACE	SPACE	0	39		0		40	0	SPACE	SPACE		0 1
0 1		SPACE	SPACE	0	41			0	42	0	SPACE	SPACE		0 1

* PHASE TOTALS	VA	BUS TOTALS	KVA
* A-N	17741.1	CONNECTED	53.22
* B-N	17741.1	DEMAND	53.22
* C-N	17741.1	DESIGN	56.98

PANEL: 1LNH1 | LOCATION: ELEC RM B165 | FED FROM: 1PNH1
DC DEVICE TYPE: Breaker | DEVICE FAMILY: Bolt On
ENCLOSURE: NEMA 1 | MOUNTING: Surface | VOLTAGE: 480/277
MAINS(A): MLO | WIRING: 3-Phase 4-Wire
CONTINUOUS(A): 100 | BUS SC RATING(A) 30000 | FAULT CURRENT(A): 21423

DC AMPS P	NOTES	DESCRIPTION	DEMAND CODE	VA	CKT	PHASE LOADS VA A	B	C	CKT	VA	DEMAND CODE	DESCRIPTION	NOTES	DC AMPS P
20 1		SW QUADRANT	LTG	1380	1	3064			2	1684	LTG	LOBBY & RECEPTION		20 1
20 1		NE QUADRANT	LTG	924	3		1748		4	824	LTG	CORRIDOR		20 1
20 1		SE QUADRANT	LTG	749	5			2058	6	1310	LTG	NW QUADRANT		20 1
20 1		EXTERIOR LTG	LTG	928	7	928			8	0	SPARE	SPARE		20 1
20 1		SPARE	SPARE	0	9		0		10	0	SPARE	SPARE		20 1
20 1		SPARE	SPARE	0	11			0	12	0	SPARE	SPARE		20 1
20 1		SPARE	SPARE	0	13	0			14	0	SPARE	SPARE		20 1
20 1		SPARE	SPARE	0	15		0		16	0	SPARE	SPARE		20 1
20 1		SPARE	SPARE	0	17			0	18	0	SPARE	SPARE		20 1
20 1		SPARE	SPARE	0	19	0			20	0	SPARE	SPARE		20 1
20 1		SPARE	SPARE	0	21		0		22	0	SPARE	SPARE		20 1
20 1		SPARE	SPARE	0	23			0	24	0	SPARE	SPARE		20 1
20 1		SPARE	SPARE	0	25	0			26	0	SPARE	SPARE		20 1
20 1		SPARE	SPARE	0	27		0		28	0	SPARE	SPARE		20 1
20 1		SPARE	SPARE	0	29			0	30	0	SPARE	SPARE		20 1
20 1		SPARE	SPARE	0	31	0			32	0	SPARE	SPARE		20 1
20 1		SPARE	SPARE	0	33		0		34	0	SPARE	SPARE		20 1
20 1		SPARE	SPARE	0	35			0	36	0	SPARE	SPARE		20 1
20 1		SPARE	SPARE	0	37	0			38	0	SPARE	SPARE		20 1
20 1		SPARE	SPARE	0	39		0		40	0	SPARE	SPARE		20 1
20 1		SPARE	SPARE	0	41			0	42	0	SPARE	SPARE		20 1

* PHASE TOTALS	VA	BUS TOTALS	KVA
* A-N	3992.0	CONNECTED	7.80
* B-N	1748.0	DEMAND	7.80
* C-N	2058.0	DESIGN	7.80

PANEL: 1LEL1 | LOCATION: ELEC RM B165 | FED FROM:
DC DEVICE TYPE: Breaker | DEVICE FAMILY: Bolt On
ENCLOSURE: NEMA 1 | MOUNTING: Surface | VOLTAGE: 208
MAINS(A): MCB | WIRING: 3-Phase 3-Wire
CONTINUOUS(A): 25 | BUS SC RATING(A) 10000 | FAULT CURRENT(A): 944

DC AMPS P	NOTES	DESCRIPTION	DEMAND CODE	VA	CKT	PHASE LOADS VA A	B	C	CKT	VA	DEMAND CODE	DESCRIPTION	NOTES	DC AMPS P
0 3		RESERVED	SPACE	0	1	1267			2	3800	NONE	MAIN CB		25 3
"		"		-	3		1267		4	-		"		"
"		"		-	5			1267	6	-		"		"
20 1		DOOR HARDWARE	GENERAL	1000	7	1500			8	500	GENERAL	SMOKE CONTROL PANEL		20 1
20 1		SECURITY CAMERA	GENERAL	300	9		800		10	500	GENERAL	EMS CONTROL PANEL		20 1
20 1		SECURITY PANEL	GENERAL	500	11			1500	12	1000	GENERAL	DOOR HARDWARE		20 1

* PHASE TOTALS	VA	BUS TOTALS	KVA
* A-N	2766.7	CONNECTED	3.80
* B-N	2066.7	DEMAND	3.80
* C-N	2766.7	DESIGN	3.80

PANEL: 1LNL1 | LOCATION: ELEC RM B165 | FED FROM:
DC DEVICE TYPE: Breaker | DEVICE FAMILY: Bolt On
ENCLOSURE: NEMA 1 | MOUNTING: Surface | VOLTAGE: 208/120
MAINS(A): MLO | WIRING: 3-Phase 4-Wire
CONTINUOUS(A): 225 | BUS SC RATING(A) 10000 | FAULT CURRENT(A): 5507

DC AMPS P	NOTES	DESCRIPTION	DEMAND CODE	VA	CKT	PHASE LOADS VA A	B	C	CKT	VA	DEMAND CODE	DESCRIPTION	NOTES	DC AMPS P
20 1		RECEPTION LED	LTG	300	1	830			2	540	RECP	RM B161, B164		20 1
20 1		P-2 & B-1	1PHASE	853	3		1020		4	200	GENERAL	B163 MANIFOLDS		20 1
20 1		DWH-1 & RP-1	1PHASE	612	5			1612	6	1080	RECP	RM B166		20 1
20 1		RM B176	RECP	900	7	1803			8	1000	1PHASE	RM B151 MECHO-SHADE		20 1
20 1		RM B177, B175	RECP	720	9		1440		10	720	RECP	RM B151		20 1
20 1		RM B173	RECP	900	11			1620	12	720	RECP	RM B151		20 1
20 1		SPARE	SPARE	0	13	1000			14	1000	1PHASE	B152&6 MECHO-SHADE		20 1
20 1		RM B172, CORR C-11	RECP	900	15		1100		16	200	GENERAL	MED GAS ALARM PANEL		20 1
20 1		RM B171	RECP	540	17			1260	18	720	RECP	RM B152, 153		20 1
20 1		RM B171	OFFICE	2500	19	2646			20	180	RECP	RM B152		20 1
20 1		RM B170	RECP	720	21		900		22	180	RECP	RM B152		20 1
20 1		RM B170 MICROWAVE	KITCHEN	1500	23			1648	24	180	RECP	RM B152		20 1
20 1		RM B170 COFFEE	KITCHEN	1500	25	1648			26	180	RECP	RM B152		20 1
20 1		RM B170 TEA	KITCHEN	1500	27		2120		28	720	RECP	RM B152, B154		20 1
20 1		RM B168, CORR C-10	RECP	900	29			1800	30	900	RECP	RM B155		20 1
20 1		LOBBY A100	RECP	540	31	1440			32	900	RECP	RM B155		20 1
20 1		RM B167 DISHWASHER	KITCHEN	1500	33		1959		34	540	RECP	RM B163, B165		20 1
20 1		RM B170	RECP	900	35			934	36	83	MECH EQ	AC-2		15 2
20 1		RM B164 AV EQPT	GENERAL	800	37	834			38	-		"		"
20 1		RM B164 AV EQPT	GENERAL	800	39		2193		40	1500	OFFICE	COPIER B166		20 1
20 1		RM B164 AV EQPT	GENERAL	800	41			1520	42	720	RECP	RM B168		20 1
20 1		RM B152 HEADWALL	RECP	540	43	1080			44	540	RECP	RM B157 HEADWALL		20 1
20 1		RM B152 HEADWALL	RECP	540	45		900		46	360	RECP	RM B157 HEADWALL		20 1
20 1		RM B152 HEADWALL	RECP	360	47			720	48	360	RECP	RM B157 HEADWALL		20 1
20 1		RM B152 HEADWALL	RECP	540	49	1080			50	540	RECP	RM B157 HEADWALL		20 1
20 1		RM B152 HEADWALL	RECP	540	51		1080		52	540	RECP	RM B157 HEADWALL		20 1
20 1		RM B152 HEADWALL	RECP	360	53			720	54	360	RECP	RM B157 HEADWALL		20 1
20 1		RM B152 HEADWALL	RECP	540	55	1080			56	540	RECP	RM B159 HEADWALL		20 1
20 1		RM B152 HEADWALL	RECP	540	57		1080		58	540	RECP	RM B159 HEADWALL		20 1
20 1		RM B152 HEADWALL	RECP	360	59			720	60	360	RECP	RM B159 HEADWALL		20 1
20 1		RM B152 HEADWALL	RECP	540	61	1080			62	540	RECP	RM B159 HEADWALL		20 1
20 1		RM B152 HEADWALL	RECP	540	63		1080		64	540	RECP	RM B159 HEADWALL		20 1
20 1		RM B152 HEADWALL	RECP	360	65			720	66	360	RECP	RM B159 HEADWALL		20 1
20 1		RM B156 HEADWALL	RECP	540	67	1440			68	900	RECP	RM B158		20 1
20 1		RM B156 HEADWALL	RECP	540	69		1468		70	1000	1PHASE	B157-9 MECHO-SHADE		20 1
20 1		RM B156 HEADWALL	RECP	360	71			1306	72	1000	1PHASE	RM B151 MECHO-SHADE		20 1
20 1		RM B156 HEADWALL	RECP	540	73	900			74	360	RECP	RM B160		20 1
20 1		RM B156 HEADWALL	RECP	540	75		900		76	360	RECP	RM B160		20 1
20 1		RM B156 HEADWALL	RECP	360	77			1080	78	720	RECP	RM B160		20 1
20 1		RM B156	RECP	720	79	1820			80	1100	GENERAL	RM B152,155 MONITORS		20 1
20 1		RM B157	RECP	720	81		720		82	0	SPARE	SPARE		20 1
20 1		RM B159	RECP	900	83			900	84	0	SPARE	SPARE		20 1

* PHASE TOTALS	VA	BUS TOTALS	KVA
* A-N	18026.0	CONNECTED	51.69
* B-N	17502.2	DEMAND	39.24
* C-N	16214.1	DESIGN	39.24

PANEL: 1PNL1 | LOCATION: ELEC RM B165 | FED FROM:
DC DEVICE TYPE: Breaker | DEVICE FAMILY: Bolt On
ENCLOSURE: NEMA 1 | MOUNTING: Surface | VOLTAGE: 208/120
MAINS(A): MCB | WIRING: 3-Phase 4-Wire
CONTINUOUS(A): 400 | BUS SC RATING(A) 10000 | FAULT CURRENT(A): 5635

DC AMPS P	NOTES	DESCRIPTION	DEMAND CODE	VA	CKT	PHASE LOADS VA A	B	C	CKT	VA	DEMAND CODE	DESCRIPTION	NOTES	DC AMPS P
225 3		BUS-1LNL1	NONE	51690	1	20547			2	10098	NONE	BUS-1LNL2		100 3
"		"		-	3		20547		4	-		"		"
"		"		-	5			20547	6	-		"		"
100 3		SPARE	SPARE	0	7	0			8	0	SPARE	SPARE		225 3
"		"		-	9		0		10	-		"		"
"		"		-	11			0	12	-		"		"
0 3		SPACE	SPACE	0	13	0			14	0	SPACE	SPACE		0 3
"		"		-	15		0		16	-		"		"
"		"		-	17			0	18	-		"		"
0 3		SPACE	SPACE	0	19	0			20	0	SPACE	SPACE		0 3
"		"		-	21		0		22	-		"		"
"		"		-	23			0	24	-		"		"
0 3		SPACE	SPACE	0	25	0			26	0	SPACE	SPACE		0 3
"		"		-	27		0		28	-		"		"
"		"		-	29			0	30	-		"		"
0 3		SPACE	SPACE	0	31	0			32	0	SPACE	SPACE		0 3
"		"		-	33		0		34	-		"		"
"		"		-	35			0	36	-		"		"
0 3		SPACE	SPACE	0	37	0			38	0	SPACE	SPACE		0 3
"		"		-	39		0		40	-		"		"
"		"		-	41			0	42	-		"		"

* PHASE TOTALS	VA	BUS TOTALS	KVA
* A-N	20546.7	CONNECTED	61.64
* B-N	20546.7	DEMAND	48.60
* C-N	20546.7	DESIGN	48.99

GENERAL NOTES

KEY NOTES

LEGEND

PROJECT NORTH
TRUE NORTH

ISSUE FOR BID

Revisions	Date
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CONSULTANTS:

Seals and Signatures

ARCHITECT/ENGINEERS:

CANNONDESIGN

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Houston ■ Los Angeles ■ Mumbai ■ New York ■ Phoenix
St. Louis ■ San Francisco ■ Shanghai ■ Toronto
Vancouver ■ Victoria ■ Washington DC

Drawing Title: ELECTRICAL PANEL SCHEDULES

Approved: Project Director
Approver

Project Title: VA SIMULATION CENTER

Location: Veterans Affairs Palo Alto Heath Care System
3801 Miranda Ave,Palo Alto, CA 94304

Date: JUNE 14, 2013 | Checked: RJG | Drawn: JSS

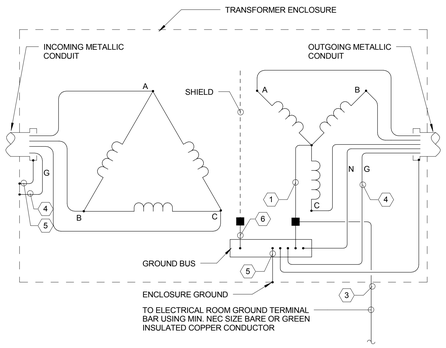
VA Project Number: 640-385

Building Number: 105

Drawing No. E0602

VA Veterans Affairs PAHCS Palo Alto Health Care System

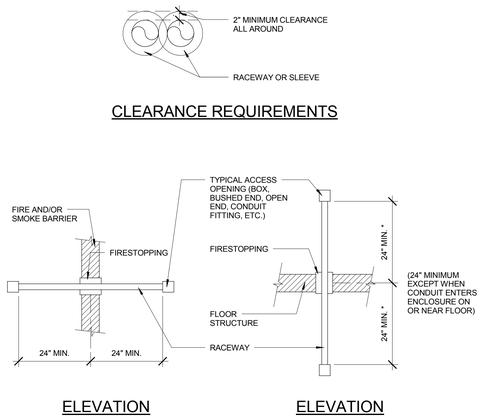
Department of Veterans Affairs



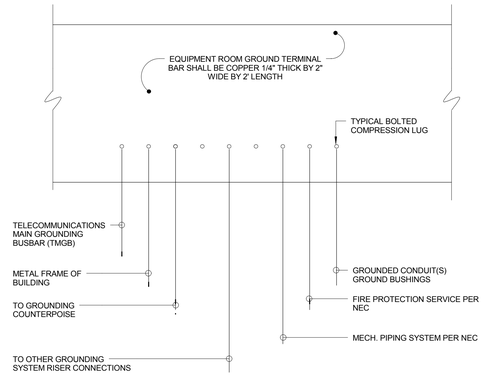
NOTES:

1. GROUNDING CONDUCTOR (NEUTRAL)
2. FUSION WELD (OR INDEPENDENT TRANSFER NEUTRAL LUGS)
3. GROUNDING ELECTRODE CONDUCTOR.
4. EQUIPMENT GROUNDING CONDUCTOR.
5. BONDING JUMPER.
6. ELECTROSTATIC SHIELD GROUNDING CONDUCTOR (IF USED)

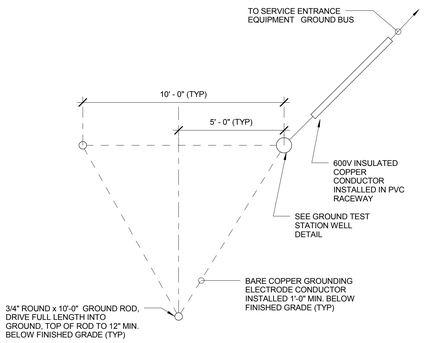
3 TRANSFORMER GROUNDING



2 PENETRATION THROUGH VERT. HORIZ. FIRE AND SMOKE BARRIER



1 ELECTRICAL ROOM GROUND TERMINAL BAR



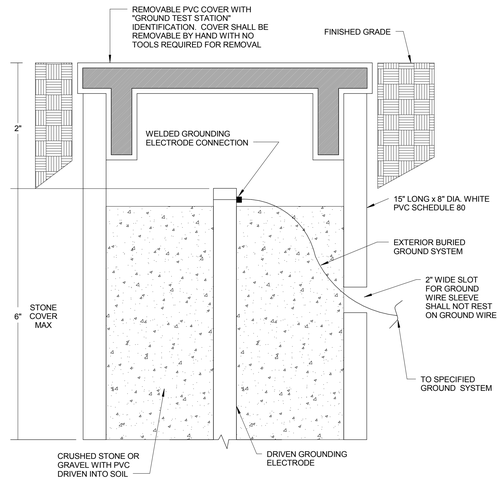
NOTES:

1.
AT POINT OF ENTRANCE TO FACILITY, PROVIDE SOLDER BLOCK IN GROUNDING ELECTRODE CONDUCTOR. SEAL CONDUIT TO CONDUCTOR 100% WATERPROOF.

2.
SIZE GROUNDING ELECTRODE CONDUCTOR PER NEC:

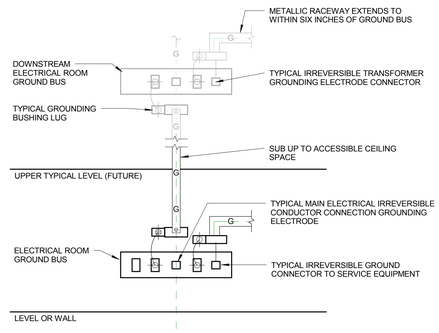
6 GROUNDING COUNTERPOISE

1/8" = 1'-0"



5 GROUND TEST STATION WELL

1/8" = 1'-0"



4 PHYSICAL GROUNDING REQUIREMENTS

GENERAL NOTES

KEY NOTES

LEGEND

PROJECT NORTH
TRUE NORTH

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Revisions	Date
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CONSULTANTS:

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Drawing Title
ELECTRICAL DETAILS

Approved: Project Director
Approver

Project Title
VA SIMULATION CENTER

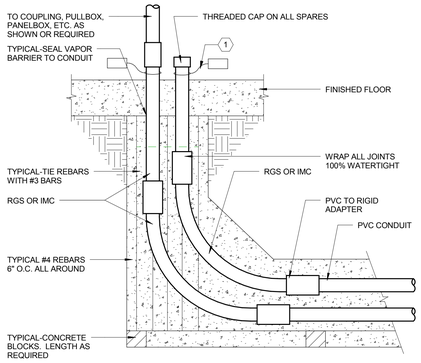
Location
Veterans Affairs Palo Alto Heath Care System
3801 Miranda Ave,Palo Alto, CA 94304

Date JUNE 14, 2013 | Checked RJG | Drawn JSS

VA Project Number: 640-385
Building Number: 105
Drawing No. E0701

VA PAHCS Veterans Affairs Palo Alto Health Care System

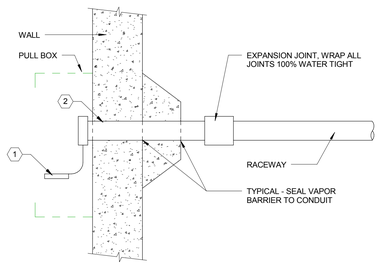
Department of Veterans Affairs



NOTES:

1.
AT EACH CONDUIT STUB-UP, AFFIX ENGRAVED PLASTIC NAMEPLATE INDICATING CONDUIT NO. OR CIRCUIT IDENTIFICATION. ATTACH WITH NYLON CABLE TIE.

4 CONDUIT STUB-UP INSIDE BUILDING

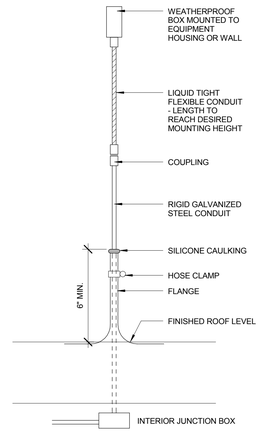


NOTES

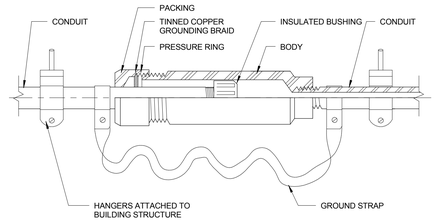
1.
AT EACH CONDUIT, PROVIDE AN ENGRAVED PLASTIC NAMEPLATE, INDICATING CONDUIT NO., AND ATTACH TO CONDUIT WITH NYLON CABLE TIE.

2.
PROVIDE CONDUIT SLEEVE AND "LINK SEAL" FOR ALL PENETRATIONS BELOW GRADE.

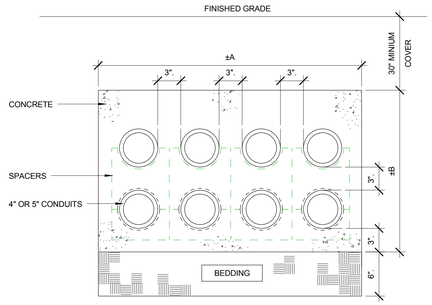
3 TYPICAL DIRECT BURIAL CONDUIT PENETRATION INTO BUILDING



2 RACEWAY ROOF PENETRATION



1 CONDUIT EXPANSION FITTING



ELEVATION

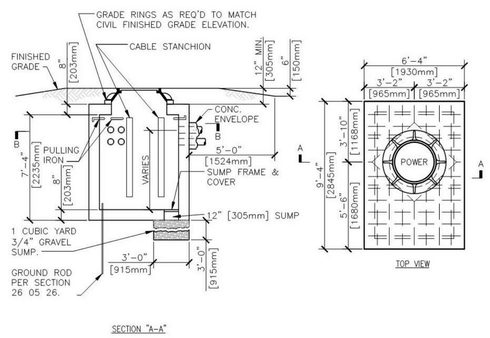
NOTE:

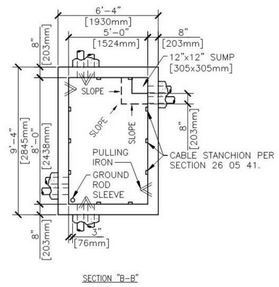
USE SIMILAR SPACINGS FOR CONFIGURATIONS NOT IDENTIFIED.

No. OF DUCTS	DUCT SIZE	CONFIG. (A/B DUCTS)	A	B
2	4"	2A/1B	17"	10"
2	5"	2A/1B	19"	12"
4	4"	2A/2B	17"	17"
4	5"	2A/2B	19"	19"
6	4"	3A/2B	24"	17"
6	5"	3A/2B	27"	19"
8	4"	4A/2B	31"	17"
8	5"	4A/2B	35"	19"
9	4"	3A/3B	24"	24"
9	4"	3A/3B	27"	27"

7 DUCT BANK DETAIL

1/8" = 1'-0"





GENERAL NOTES:

1. INCLUDE ALUMINUM LADDER (NOT SHOWN FOR CLARITY)

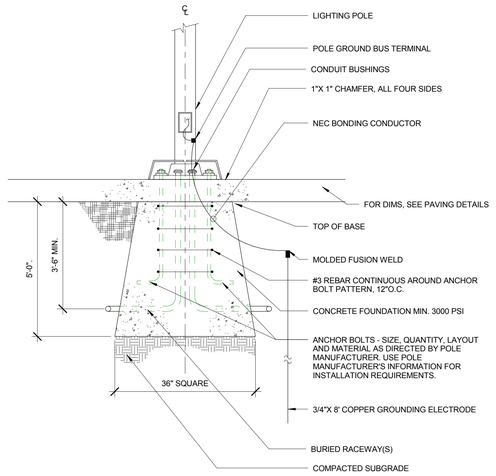
6 POWER & TELECOM MANHOLES

NOTES:

1.
IN SLOPED, NON-PAVED AREAS, INSTALL SUCH THAT TOP OF BASE IS 6" ABOVE FINISHED GRADE ON THE HIGH SIDE.

2.
IN LEVEL, NON-PAVED AREAS, INSTALL SUCH THAT TOP OF BASE IS 1-1/2" ABOVE FINISHED GRADE.

3.
FOR ALL PAVED AREAS, INSALL AS SHOWN BELOW.



5 LIGHTING POLE FOUNDATION

GENERAL NOTES

KEY NOTES

LEGEND

ISSUE FOR BID

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St. Louis ■ San Francisco ■ Shanghai ■ Toronto
Vancouver ■ Victoria ■ Washington DC

Drawing Title: ELECTRICAL DETAILS

Approved: Project Director
Approver

Project Title: VA SIMULATION CENTER

Location: Veterans Affairs Palo Alto Heath Care System, 3801 Miranda Ave,Palo Alto, CA 94304

Date: JUNE 14, 2013 | Checked: RJG | Drawn: JSS

VA Project Number: 640-385

Building Number: 105

Drawing No. E0702

VA PAHCS Veterans Affairs Palo Alto Health Care System

Department of Veterans Affairs

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

4 DEMOLITION NOTES

1. DEMOLITION INFORMATION SHOWN ON THE DRAWINGS IS BASED ON SHOP DRAWINGS AND A REVIEW OF THE EXISTING CONDITIONS.
2. PERFORM ALL WORK OF A DEMOLITION NATURE THAT MAY BE REQUIRED OR NECESSARY FOR A FULL AND COMPLETE EXECUTION OF THE WORK, WHETHER OR NOT SHOWN OR SPECIFIED. THE EXACT EXTENT OF DEMOLITION MAY NOT BE FULLY INDICATED BY THE DRAWINGS. DETERMINE THE NATURE AND EXTENT OF DEMOLITION THAT WILL BE NECESSARY BY COMPARING THE CONTRACT DOCUMENTS WITH THE EXISTING FIELD CONDITIONS PRIOR TO BIDS.
3. MATERIALS AND EQUIPMENT TO BE SALVAGED OR REUSED SHALL BE IDENTIFIED BY THE OWNER. THESE ITEMS ARE THE PROPERTY OF THE OWNER AND SHALL BE RETURNED TO THE OWNERS DESIGNATED STORAGE AREA. WHERE REMOVAL IS REQUIRED THE CONTRACTOR SHALL BE RESPONSIBLE FOR CARE TAKEN DURING THE HANDLING OF THESE ITEMS.
4. DEMOLISHED MATERIALS AND EQUIPMENT NOT BEING SALVAGED OR REUSED, SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND REMOVED FROM THE SITE AND LEGALLY DISPOSED OF.
5. WHERE EXISTING FIXTURES ARE INDICATED TO BE DEMOLISHED, THIS SHALL INCLUDE ALL ASSOCIATED PIPING, CARRIERS, SUPPORTS, SLEEVES, HANGERS, FITTINGS, AND OTHER ACCESSORIES. PIPING SHALL BE REMOVED TO A LOCATION ABOVE CEILING OR BEHIND WALLS AND CAPPED. HOWEVER NO INACTIVE BRANCH OF MORE THAN 2 FEET IN LENGTH CAN REMAIN ON ANY PIPE. CONTRACTOR SHALL REMOVE AS REQUIRED.
6. WHERE DEMOLITION OF FIXTURE AND REMOVAL OF PIPING OR OTHER ACCESSORY LEAVES AN OPENING IN THE FLOOR, WALL, OR CEILING, SAME SHALL BE PATCHED TO MATCH EXISTING ADJACENT FINISH.

3 GENERAL NOTES

1. ALL VALVES SHALL BE READILY ACCESSIBLE FROM A SAFE HEIGHT ON A SIX FOOT LADDER AND TO BE CLEAR OF ALL OBSTRUCTIONS. OPERATION SHALL NOT BE ENCUMBERED BY ANY DEVICE OR EQUIPMENT.
2. ALL WATER PIPING SUPPLYING FIXTURES FROM WALLS OR CHASES SHALL BE PIPED FROM A FULL SIZED HORIZONTAL MANIFOLD, VERTICAL BRANCHES FROM THE MANIFOLD, INCLUDING AIR CHAMBERS, SHALL BE ONE PIPE SIZE LARGER THAN THE SIZE INDICATED UNDER "CONNECTIONS" OF THE FIXTURE SPECIFICATIONS. SEE PLANS FOR SUPPLY PIPE SIZING TO WALLS OR CHASES.
3. DO NOT SUPPORT PLUMBING PIPING FROM METAL DECK.
4. COORDINATE SCHEDULE FOR HOOK-UPS TO EXISTING SYSTEMS AND EQUIPMENT REMOVAL OR RELOCATIONS WITH THE OWNER AND PERFORM THIS WORK AT SUCH TIMES TO ENSURE THAT PERIODS OF SHUTDOWN WILL BE ACCEPTABLE TO THE OWNER.
5. VERIFY EXACT LOCATION OF CONNECTION POINTS (NEW TO EXISTING) IN FIELD PRIOR TO CONSTRUCTION.
6. COORDINATE INSTALLATION OF NEW PIPING WITH EXISTING BUILDING STRUCTURE, DUCTWORK, PIPING, ELECTRICAL CONDUIT, LIGHTING, ETC.
7. RELOCATE EXISTING PIPING IN EXISTING CEILING SPACES TO ACCOMMODATE ALL RENOVATIONS AND ADDITIONS.
8. REFER TO ARCHITECTURAL ELEVATION DRAWINGS FOR LOCATION OF WALL MOUNTED MECHANICAL ITEMS.
9. THIS PLAN IS APPROVED FOR WORK INDICATED PER THE APPLICABLE DRAWINGS AND SPECIFICATIONS ONLY. ALL OTHER AREAS SHOWN ARE FOR REFERENCE ONLY AND SHALL NOT BE CONSIDERED OR APPROVED TO BE IN ACCORDANCE WITH APPLICABLE CODES OR AUTHORITY HAVING JURISDICTION.
10. NOT ALL PIPING AND PIPE SIZES ARE SHOWN ON THE DRAWINGS FOR CLARITY. REFER TO STACK DIAGRAMS, WATER RISERS, AND MEDICAL GAS RISER FOR ADDITIONAL PIPING AND SIZES.
11. CUT, PATCH AND MATCH EXISTING CEILINGS, WALLS AND FLOORS AS REQUIRED PER INSTALLATION OF PLUMBING PIPING.
12. CAREFULLY REMOVE AND INSTALL EXISTING CEILING TILES AS REQUIRED PER INSTALLATION OF PLUMBING PIPING. DAMAGED CEILING TILES TO BE REPLACED BY PLUMBING CONTRACTOR.
13. ALL EXISTING BUILDING UTILITIES HAVE BEEN DOCUMENTED FROM AVAILABLE DRAWINGS, RECORDS AND FIELD SURVEY AND THEREFORE, THEIR LOCATIONS MUST BE CONSIDERED APPROXIMATE ONLY. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE LOCATION AND SIZE OF ALL EXISTING UTILITIES BEFORE BEGINNING WORK.
14. THIS IS A GENERAL LIST OF ABBREVIATIONS AND SYMBOLS ON THIS SHEET. SOME ABBREVIATIONS AND SYMBOLS MAY NOT BE APPLICABLE TO THIS PROJECT.
15. THE SPACE ABOVE THE CEILING IS LIMITED AND THE INSTALLATION OF WORK WILL BE TIGHT. DUE TO THIS, IT IS IMPORTANT THAT THE TRADE CONTRACTOR SHALL COORDINATE THE INSTALLATION OF THEIR WORK WITH THE CEILING SYSTEM HEIGHT AND CONSTRUCTION, THE STRUCTURAL SYSTEM, THE LIGHTING FIXTURES, THE SPRINKLER HEADS / MAINS AND THE PLUMBING PIPES. ROUTE PIPING AS HIGH AS POSSIBLE. MAINTAIN PROPER SERVICE ACCESS CLEARANCE. ACCURATE SHOP DRAWINGS SHALL BE SUBMITTED FOR APPROVAL, PRIOR TO FIELD INSTALLATION.
16. DO NOT INSTALL ANY NEW WORK DIRECTLY ABOVE ANY ELECTRICAL PANELS AND TRANSFORMERS.
17. THESE DRAWINGS ARE DIAGRAMMATIC IN NATURE AND MAY NOT SHOW EXACT ROUTING OR ALL REQUIRED OFFSETS, ACCESSORIES OR APPURTENANCES. CONTRACTOR SHALL PROVIDE AS REQUIRED TO INSTALL A COMPLETE AND COORDINATED JOB, INCLUDING ANY ADDITIONAL ITEMS REQUIRED TO MEET ACTUAL FIELD CONDITIONS AND ACTUAL EQUIPMENT SELECTED.
18. FOR EXACT LOCATION OF EQUIPMENT AND FIXTURES, SEE ARCHITECTURAL DRAWINGS.
19. NO EQUIPMENT OR DEVICE REQUIRING REGULAR ACCESS OR MAINTENANCE SHALL BE INSTALLED IN AN INACCESSIBLE CEILING CAVITY. LOCATE SUCH ITEMS ABOVE ACOUSTIC TILE CEILINGS WHEREVER POSSIBLE. IF ANY SUCH ITEMS ARE REQUIRED TO BE INSTALLED ABOVE DRYWALL CEILINGS, PROVIDE AN ACCESS PANEL OR PANELS SIZED AND LOCATED TO PROVIDE SUFFICIENT ACCESS FOR EQUIPMENT SERVICE. SUBMIT LAYOUT OF ALL REQUIRED ACCESS PANELS FOR ARCHITECTS REVIEW AND APPROVAL PRIOR TO THE ONSET OF INSTALLATION.
20. ALL UNLABELED MEDICAL GAS PIPING SECTIONS SHALL BE INSTALLED AS THE MINIMUM PIPE SIZE LISTED BELOW:
    O2 = 1/2"
    M/V = 3/4"
    MA = 1/2"
    N2O = 1/2"
    WAGD = 3/4"
21. MEDICAL GAS SERVICE OUTLETS/INLETS FURNISHED AND INSTALLED BY THE PLUMBING CONTRACTOR. SEE ARCHITECTURAL DRAWINGS A1101 AND A1102 FOR EXACT LOCATION, QUANTITY AND ARRANGEMENTS.

2 ABBREVIATIONS

CO	CLEANOUT
CONT'D.	CONTINUED
CW	COLD WATER
DN	DOWN
DWH	DOMESTIC WATER HEATER
EX.	EXISTING
FCO	FLOOR CLEANOUT
FD	FLOOR DRAIN
FP	FIRE PROTECTION
G	NATURAL GAS
HW	HOT WATER
HWR	HOT WATER RETURN
INV.ELEV.	INVERT ELEVATION
MA	MEDICAL AIR
MV	MEDICAL VACUUM
N2O	NITROUS OXIDE
O2	OXYGEN
OFRD	OVERFLOW ROOF DRAIN
RD	ROOF DRAIN
RP	RECIRCULATION PUMP
S	STACK
S.F.	SQUARE FOOT
ST	STORM
TMV	THERMOSTATIC MIXING VALVE
TP	TRAP PRIMER
VP	VACUUM PUMP
W	WASTE
W/	WITH
WAGD	WASTE ANESTIZING GAS DISPOSAL
ZVB	ZONE VALVE BOX

1 SYMBOLS

- COLD WATER (CW)
- COLD WATER (CW) EXISTING
- HOT WATER (HW)
- HOT WATER RETURN (HWR)
- VENT (V)
- WASTE (W)
- WASTE (W) EXISTING
- STORM (ST)
- STORM (ST) EXISTING
- STORM (ST) DEMO
- NATURAL GAS (G)
- MEDICAL VACUUM (MV)
- OXYGEN (O2)
- MEDICAL AIR (MA)
- NITROUS OXIDE (N2O)
- WASTE ANESTHETIC GAS DISPOSAL (WAGD)
- DIRECTION OF FLOW
- UNION
- VALVE
- BALL VALVE
- CHECK VALVE (SHOWN W/FLOW)
- BALANCING VALVE
- CAPPED PIPING
- WH — NON-FREEZE WALL HYDRANT (WH)
- ROOF DRAIN (RD)
- FLOOR DRAIN (FD)
- CO — CLEANOUT (CO)
- FCO — FLOOR CLEANOUT (FCO)
- P-TRAP
- BOTTOM DROP
- ELBOW DOWN
- ELBOW UP
- RISE OR DROP
- OXYGEN OUTLET
- MEDICAL VACUUM OUTLET
- ANESTHESIA EVACUATION OR WAGES OUTLET
- MEDICAL AIR OUTLET
- NITROUS OXIDE OUTLET
- WR / 1 — RISER INDICATOR / DETAIL INDICATOR
  TOP INDICATES TYPE OF RISER / DETAIL NO.
  BOTTOM INDICATES RISER NUMBER / DWG NO.
- ZONE VALVE BOX
- PRESSURE SWITCH
- WASHING MACHINE SUPPLY AND DRAIN BOX
- X — KEYED NOTE TAG

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Revisions		Date
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Drawing Title: SYMBOLS, ABBREVIATIONS, AND NOTES

Approved: Project Director
Approver

Project Title: VA SIMULATION CENTER

Location: Veterans Affairs Palo Alto Heath Care System
3801 Miranda Ave,Palo Alto, CA 94304

Date: JUNE 14, 2013 | Checked: MRG | Drawn: MRG

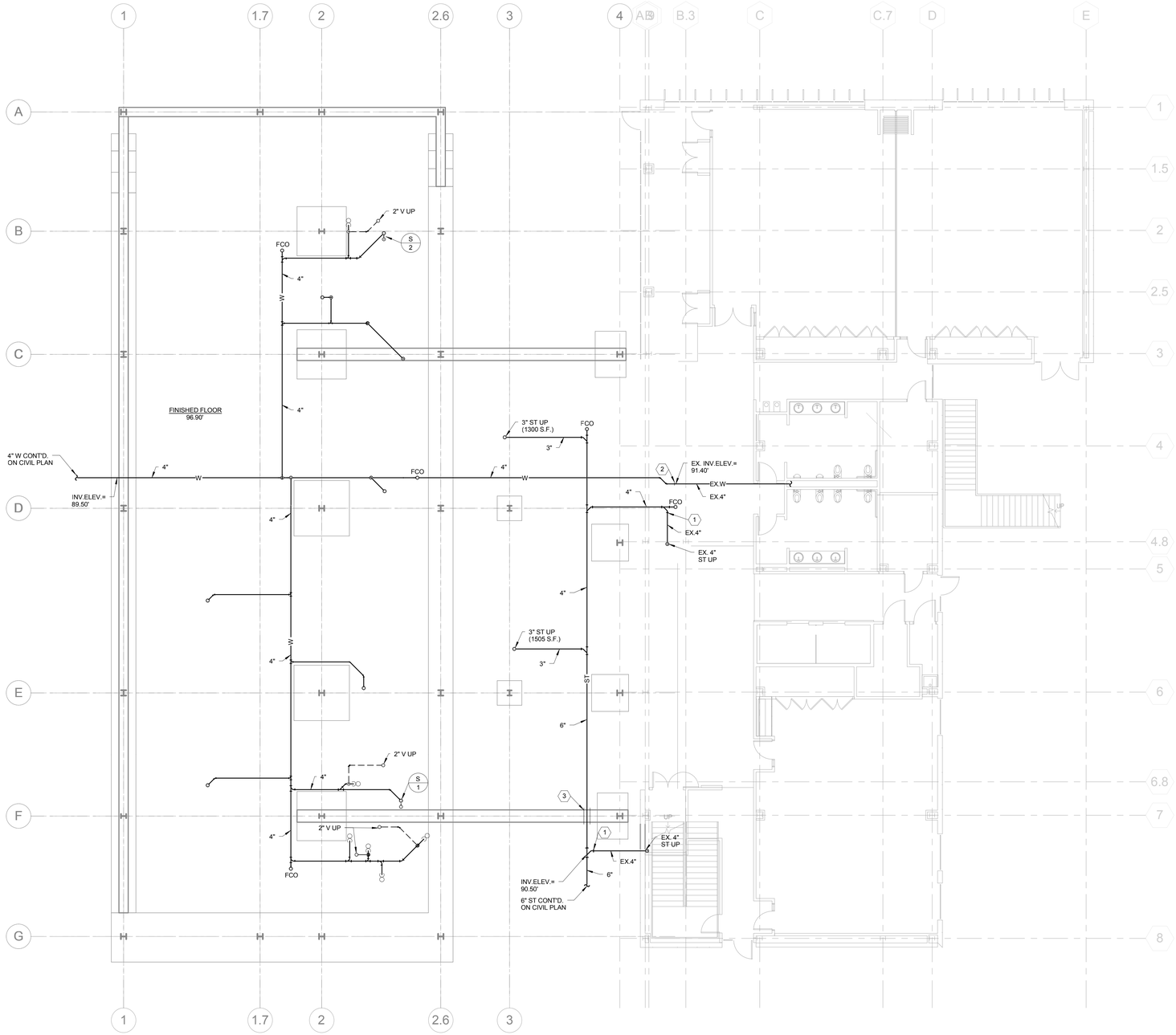
VA Project Number: 640-385

Building Number: 105

Drawing No. PL001

VA PAHCS Veterans Affairs Palo Alto Health Care System

Department of Veterans Affairs



1 UNDERFLOOR PLAN - PLUMBING PIPING
1/8" = 1'-0"

GENERAL NOTES

KEY NOTES

1. CONNECT NEW ST PIPING TO EX. AS SHOWN.
2. CONNECT NEW W PIPING TO EX. AS SHOWN.
3. PROVIDE PIPE SLEEVE THROUGH GRADE BEAM. REFER TO STRUCTURAL DETAIL 6/S1402 FOR MORE INFORMATION.

LEGEND

PROJECT NORTH
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Revisions	Date
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Drawing Title
UNDERFLOOR PLAN - PLUMBING PIPING

Approved: Project Director
Approver

Project Title
VA SIMULATION CENTER

Location
Veterans Affairs Palo Alto Heath Care System
3801 Miranda Ave,Palo Alto, CA 94304

Date
JUNE 14, 2013

Checked
MRG

Drawn
MRG

VA Project Number:
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Building Number:
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Drawing No.
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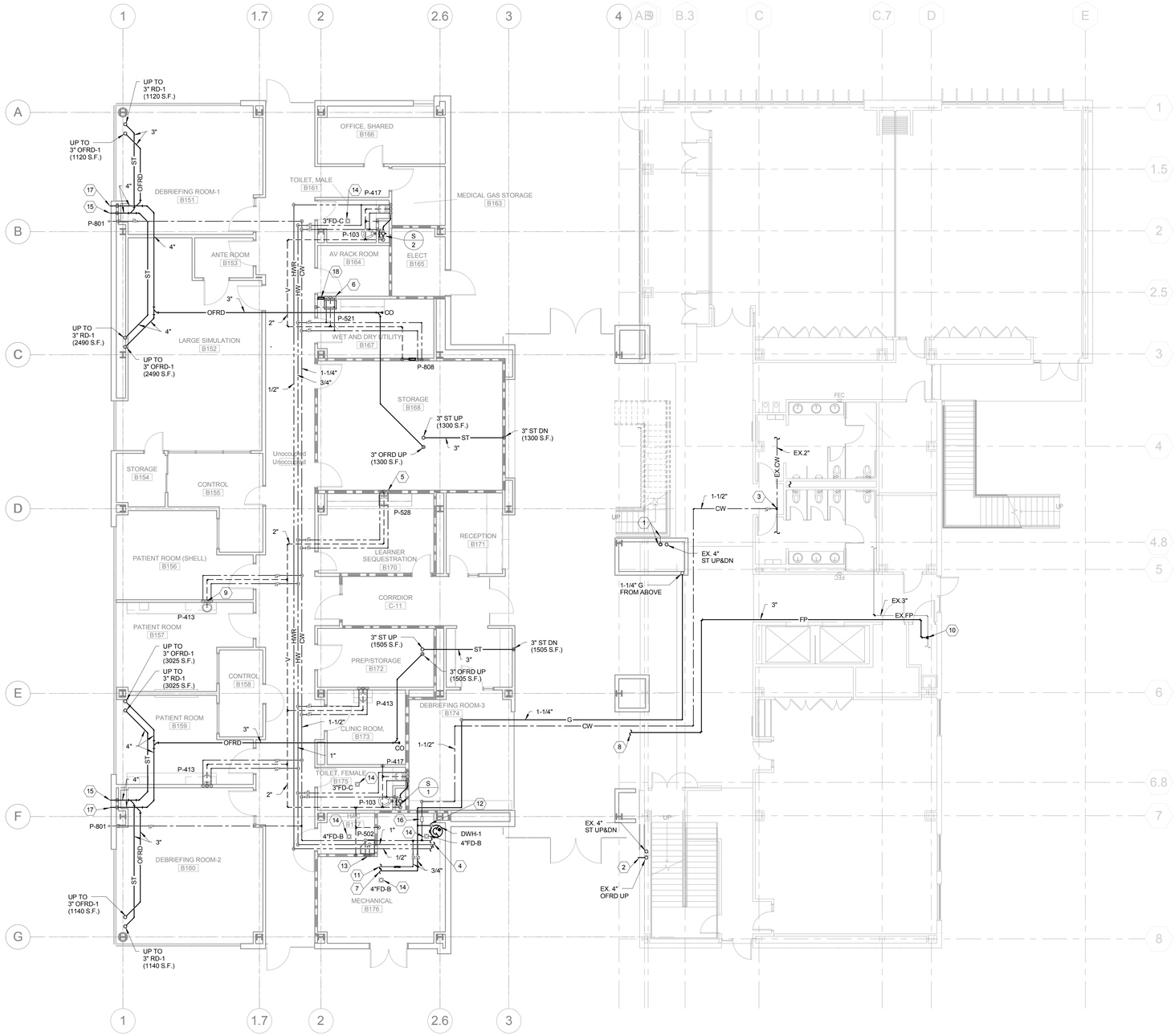
VA PAHCS
Veterans Affairs
Palo Alto Health Care System

Department of Veterans Affairs



1 LEVEL 1 FLOOR PLAN - PLUMBING PIPING
1/8" = 1'-0"

GENERAL NOTES

KEY NOTES

1. DISCONNECT AND REMOVE EX. DOWNSPOUT NOZZLE AND ASSOCIATED OFRD AND ST PIPING TO POINT ABOVE CEILING. PREPARE PIPING FOR NEW CONNECTIONS.
2. EX. DOWNSPOUT NOZZLE TO REMAIN.
3. CONNECT NEW CW PIPING TO EX. AS SHOWN.
4. REFER TO DETAIL 8/PL-501 FOR MORE INFORMATION.
5. DROP 1/2" CW AND 1/2" HW DN IN WALL. BRANCH AND CONNECT 1/2" CW AND 1/2" HW TO P-528 AND 1/2" CW TO COFFEE MAKER W/ DUAL CHECK VALVE INLINE.
6. DROP 1/2" CW AND 1/2" HW DN IN WALL. BRANCH AND CONNECT 1/2" CW AND 1/2" HW TO P-521 AND 1/2" HW TO DISHWASHER. RUN DISCHARGE FULL SIZE FROM DISHWASHER AND CONNECT TO 'P'-TRAP AT P-521.
7. 3/4" G TO BOILER.
8. SPRINKLER DESIGN FOR NEW ADDITION TO BE PERFORMED UNDER DEFERRED SUBMITTAL BY SPRINKLER CONTRACTOR IN ACCORDANCE WITH LATEST EDITION OF NFPA 13.
9. DROP 1/2" CW AND 1/2" HW DN IN WALL. CONNECT 1/2" CW AND 1/2" HW TO P-413. PROVIDE 1/2" CW AND 1/2" HW CAPPED FOR FUTURE.
10. CONNECT NEW FP PIPING TO EX. FP MAIN OF ADEQUATE SIZE ABOVE CEILING. VERIFY IN FIELD EXACT LOCATION.
11. 3/4" CW CONTINUED FOR HVAC MAKE-UP W/ REDUCED PRESSURE ZONE BACKFLOW PREVENTER INLINE. RUN DISCHARGE FULL SIZE FROM BACKFLOW PREVENTER TO NEAREST FLOOR DRAIN W/ FIXED AIR GAP.
12. 1/2" G TO DWH-1.
13. PROVIDE CHECK VALVES IN CW & HW SUPPLIES TO P-502.
14. PROVIDE PREASSEMBLED INLINE FLOOR DRAIN TRAP SEALER IN FD.
15. 4" DOWNSPOUT NOZZLE. MOUNT 1'-6" ABOVE GRADE.
16. 1-1/2" WATER SUB-METER.
17. 4" OVERFLOW DOWNSPOUT NOZZLE. MOUNT 1'-6" ABOVE GRADE. PROVIDE SIGNAGE THAT INDICATES DISCHARGE AS "OVERFLOW".
18. DRAIN BOX FOR CONDENSATE LINE FROM HVAC EQUIPMENT. BASIS OF DESIGN, IPS CORPORATION MODEL FR-12 DRAIN BOX. PROVIDE TRAP PRIMER MOUNTED ABOVE CEILING FOR P-TRAP AT DRAIN BOX.

LEGEND

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TRUE NORTH

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Drawing Title: LEVEL 1 FLOOR PLAN - PLUMBING PIPING

Approved: Project Director
Approver

Project Title: VA SIMULATION CENTER

Location: Veterans Affairs Palo Alto Heath Care System, 3801 Miranda Ave,Palo Alto, CA 94304

Date: JUNE 14, 2013 | Checked: MRG | Drawn: MRG

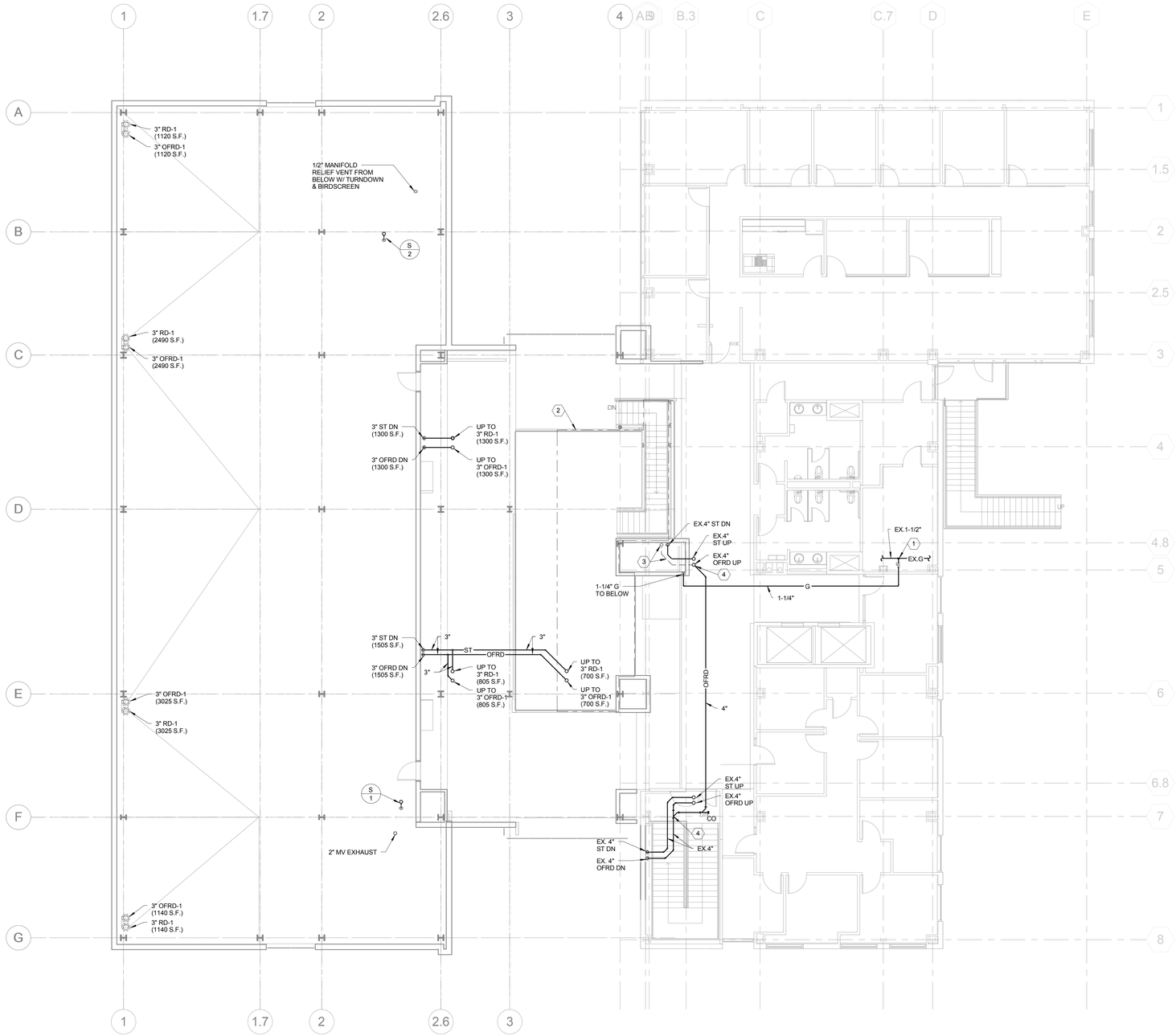
VA Project Number: 640-385

Building Number: 105

Drawing No. PL101

VA PAHCS Veterans Affairs Palo Alto Health Care System

Department of Veterans Affairs



1 ROOF PLAN - PLUMBING PIPING
1/8" = 1'-0"

GENERAL NOTES

KEY NOTES

1. CONNECT NEW G PIPING TO EX. AS SHOWN. VERIFY IN FIELD EXACT LOCATION.
2. SPRINKLER HEADS LOCATED IN ATRIUM CEILING SHALL BE SPACED AT A MAXIMUM OF 12'-0" X 12'-0", AND BE CONNECTED TO THE LEVEL ONE SPRINKLER ZONE.
3. DISCONNECT AND REMOVE EX. OFRD PIPING TO POINT INDICATED. PREPARE PIPING FOR NEW CONNECTION.
4. CONNECT NEW OFRD PIPING TO EX. AS SHOWN. VERIFY IN FIELD EXACT LOCATION.

LEGEND

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CONSULTANTS:

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Drawing Title: ROOF PLAN - PLUMBING PIPING

Approved: Project Director
Approver

Project Title: VA SIMULATION CENTER

Location: Veterans Affairs Palo Alto Heath Care System
3801 Miranda Ave,Palo Alto, CA 94304

Date: JUNE 14, 2013 | Checked: MRG | Drawn: MRG

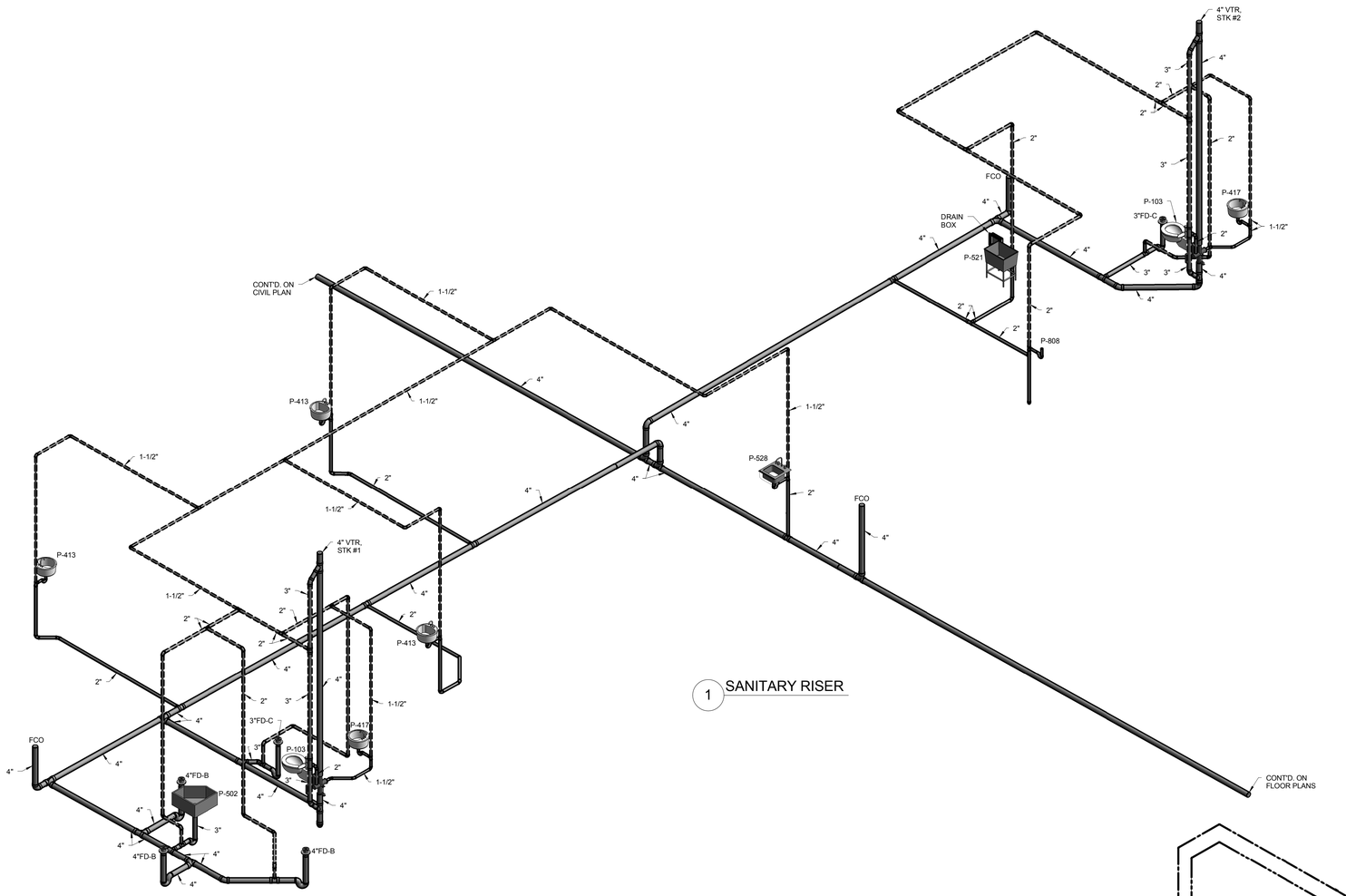
VA Project Number: 640-385

Building Number: 105

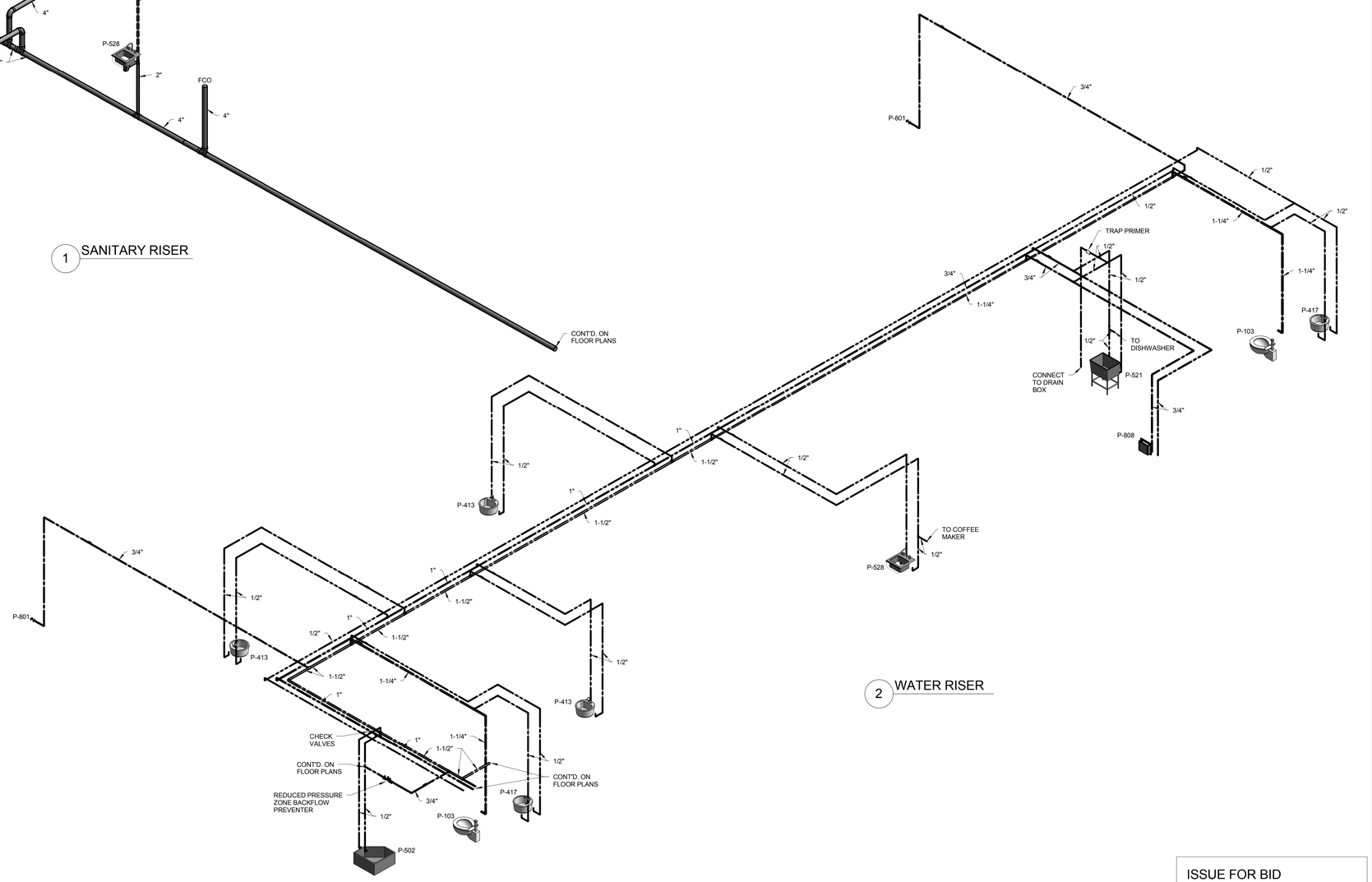
Drawing No. PL102

VA PAHCS Veterans Affairs Palo Alto Health Care System

Department of Veterans Affairs



1 SANITARY RISER



2 WATER RISER

ISSUE FOR BID

Revisions	Date
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Drawing Title
RISER DIAGRAMS

Approved: Project Director
Approver

Project Title
VA SIMULATION CENTER

Location Veterans Affairs Palo Alto Heath Care System
3801 Miranda Ave,Palo Alto, CA 94304

Date JUNE 14, 2013 | Checked MRG | Drawn MRG

VA Project Number: 640-385

Building Number: 105

Drawing No. PL401

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18 PLUMBING SIZING CRITERIA

PIPE SIZE BASED ON CHART A-4 @ 7.0 PSI/100 FT.
WATER SUPPLY FIXTURE UNITS ARE BASED ON TABLE A-2 FROM APPENDIX A
DRAINAGE FIXTURE UNITS ARE BASED ON TABLE 7-3

WATER PIPE SIZE SCHEDULE

SIZE	FT WSFU	FV WSFU	GPM	VELOCITY
1/2"	4	---	3.0	4
3/4"	11	---	9.0	5.4
1"	25	---	17	6.1
1-1/4"	47	11	28	7.5
1-1/2"	130	47	50	7.9
2"	275	155	80	8.0

DRAINAGE/VENT PIPE SIZE SCHEDULE

SIZE	W DFU HOR.	W DFU VRT.	V DFU VRT&HOR.
1-1/2"	1	2	8 @60' MAX.
2"	8	16	24 @ 120' MAX.
3"	35	48	84 @ 212' MAX.
4"	216	256	256 @ 300' MAX.

WATER SUPPLY FIXTURE UNITS

QTY	FIXTURE	WSFU	TOTAL
2	WC	5	10
2	L	1	2
1	MS	3	3
6	SK	3	18
1	DW	1.5	1.5
2	HB	2.5	5
1	CW	4	4
TOTAL WSFU'S			43.5
TOTAL GPM			47

DRAINAGE FIXTURE UNITS

QTY	FIXTURE	DFU	TOTAL
2	WC	4	8
2	L	1	2
1	MS	3	3
6	SK	3	18
1	DW	2	2
5	FD	4	20
1	CW	3	3
TOTAL DFU'S			56

17 DOMESTIC WATER SCHEDULE

PLUMBING SYSTEM FRICTION LOSS

WSFU'S EXISTING EDUCATION BUILDING	=	93		
WSFU'S NEW SIMULATION CENTER ADDITION	=	43.5		
WSFU'S FUTURE ADDITION	=	18		
WSFU'S TOTAL	=	154.5	=	78 GPM
MAX. FRICTION LOSS			=	25 PSI (FLUSH VALVE)
ELEVATION ABOVE CAMPUS MAIN			=	25 FT
DISTANCE FROM MAIN TO FURTHEST FIXTURE			=	450 FT
2" WATER METER PRESSURE LOSS			=	6 PSI
BACKFLOW PREVENTER LOSS			=	15 PSI
AVAILABLE SYSTEM STATIC PRESSURE			=	85 PSI
INCOMING SERVICE PRESSURE			=	64 PSI
64 - [25 + (25 x .433)]			=	28.175
100 x 28.175/450			=	**7.04** PSI MAX. FRICTION LOSS ALLOWABLE

MAXIMUM VELOCITY SHALL NOT EXCEED 8 FPS

16 WATER HEATER SCHEDULE

ABBREV.	TYPE	GAL CAP.	RECOVERY GPH @ 100° F RISE	INLET/ OUTLET GAS CONN.	GAS/PROP. FIRED		ELECTRICAL			EXPANSION TANK				REMARKS
					GAS (CFH)	CONN.	WATTS	AMPS	V/PH/HZ	TYPE	SIZE (GAL.)	ACCEPTANCE (GAL.)	PRECHARGE PRESSURE (PSIG)	
DWH-1	CONDENSING	50	83	1"	76,000	1/2"	---	5	120/1/60	THERMAL	3.2	1.9	40	---

15 PLUMBING FIXTURE CONNECTION SCHEDULE

FIXTURE ROUGH-IN

ABBREV.	FIXTURE	DRAINAGE		WATER	
		W	V	CW	HW
P-103	WATER CLOSET	4"	2"	1-1/4"	---
P-413	LAVATORY	1-1/2"	1-1/2"	1/2"	1/2"
P-417	LAVATORY	1-1/2"	1-1/2"	1/2"	1/2"
P-502	MOP SINK	3"	1-1/2"	1/2"	1/2"
P-521	LAUNDRY TUB	1-1/2"	1-1/2"	1/2"	1/2"
P-528	SINK	1-1/2"	1-1/2"	1/2"	1/2"
P-801	WALL HYDRANT	---	---	3/4"	---
P-808	WASHING MACHINE SUPPLY & DRAIN BOX	2"	1-1/2"	3/4"	3/4"

14 THERMOSTATIC MIXING VALVE SCHEDULE

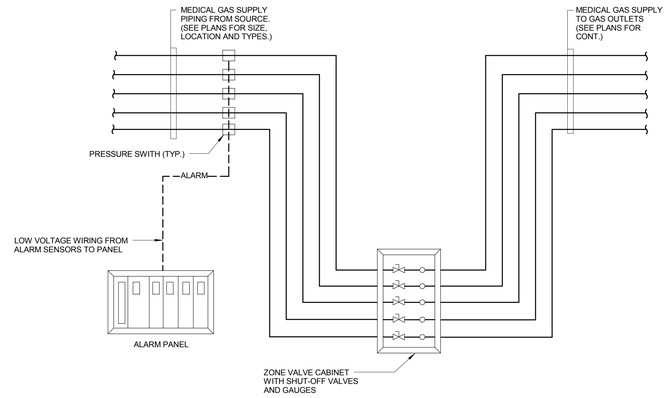
ABBREV.	TYPE	FLOW (GPM)	REMARKS
TMV-1	THERMOSTATIC	15	---

13 PUMP SCHEDULE

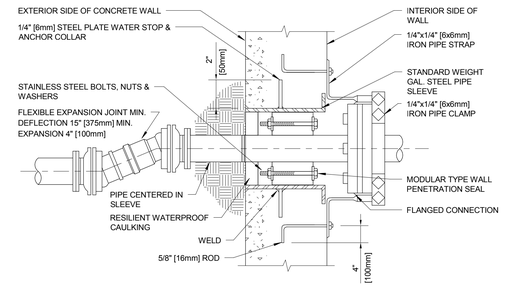
ABBREV.	TYPE	FLOW (GPM)	TOTAL DISCHARGE HEAD (TDH)	HORSEPOWER (HP)	ELECTRICAL	BASIN	REMARKS
RP-1	INLINE	5	8	1/12	120/1/60	---	---

12 VACUUM PUMP SCHEDULE

ABBREV.	TYPE	CAPACITY (SCFM)	RECEIVER (GALLONS	HORSEPOWER (HP)	ELECTRICAL	PUMPS	REMARKS
VP-1	OIL-LESS TANK MOUNT	10	60	3/4	208/1/60	SIMPLEX	NON-MEDICAL GRADE



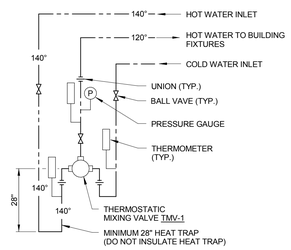
6 MEDICAL GAS PIPING ARRANGEMENT WITH ALARM



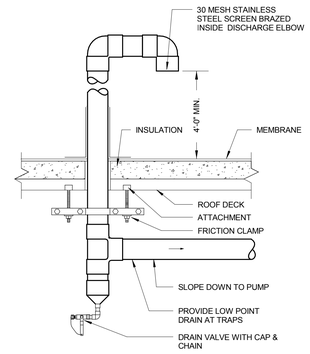
3 PIPE PENETRATION THROUGH WALLS BELOW GRADE

11 PIPE MATERIAL SCHEDULE

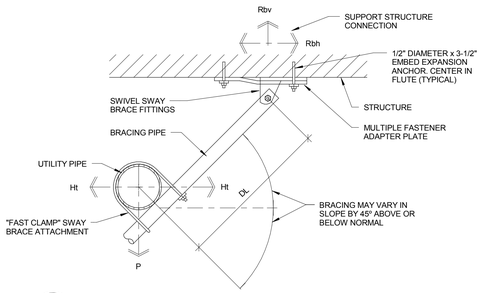
SERVICE	PIPE MATERIAL	TYPE OF JOINT	PRESURE FITTING MATERIAL
DOMESTIC COLD, HOT, AND HOT WATER RETURN - ABOVE GROUND	TYPE K OR L COPPER TUBE	SOLDERED	CAST BRONZE/ WROUGHT COPPER
WASTE AND VENT - ABOVE GROUND	NO-HUB CAST IRON	NO-HUB	N/A
WASTE AND VENT - BELOW GROUND	SCHEDULE 40 PVC (DWV)	SOLVENT CEMENTED	PVC
STORM ABOVE GROUND	NO-HUB CAST IRON	NO-HUB	N/A
STORM BELOW GROUND	SCHEDULE 40 PVC (DWV)	SOLVENT CEMENTED	PVC
MEDICAL GASES - AIR, VACUUM, OXYGEN, NITROUS OXIDE, AND WAGD	TYPE K COPPER TUBE	BRAZED	WROUGHT COPPER
NATURAL GAS	SCHEDULE 40 BLACK STEEL	THREADED	MALLEABLE IRON
MEDICAL VACUUM EXHAUST	TYPE K COPPER TUBE	BRAZED	WROUGHT COPPER



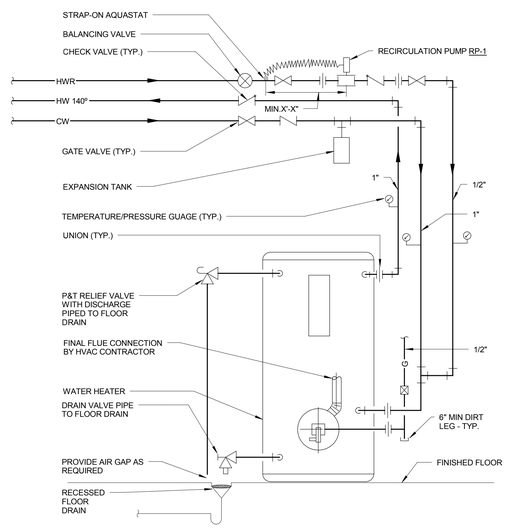
5 THERMOSTATIC MIXING VALVE DETAIL



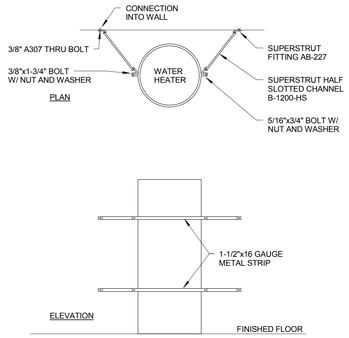
2 VACUUM EXHAUST THROUGH ROOF



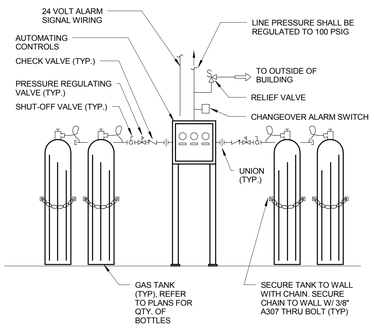
10 SEISMIC BRACING DETAIL - CONCRETE



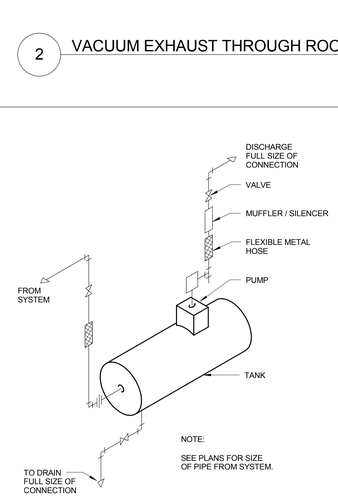
8 GAS FIRED DOMESTIC WATER HEATER DETAIL



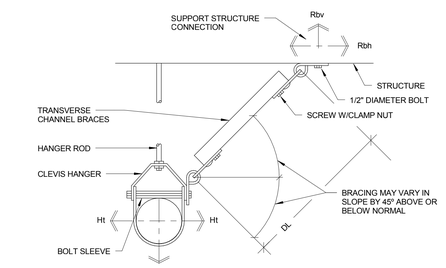
7 WATER HEATER SUPPORT DETAIL



4 GAS MANIFOLD SCHEMATIC



1 TANK MOUNTED VACUUM PUMP PIPING DETAIL



9 SEISMIC BRACING DETAIL - STRUCTURAL STEEL

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CONSULTANTS:

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Drawing Title: SCHEDULES AND DETAILS

Approved: Project Director
Approver

Project Title: VA SIMULATION CENTER

Location: Veterans Affairs Palo Alto Heath Care System, 3801 Miranda Ave,Palo Alto, CA 94304

Date: JUNE 14, 2013 | Checked: MRG | Drawn: MRG

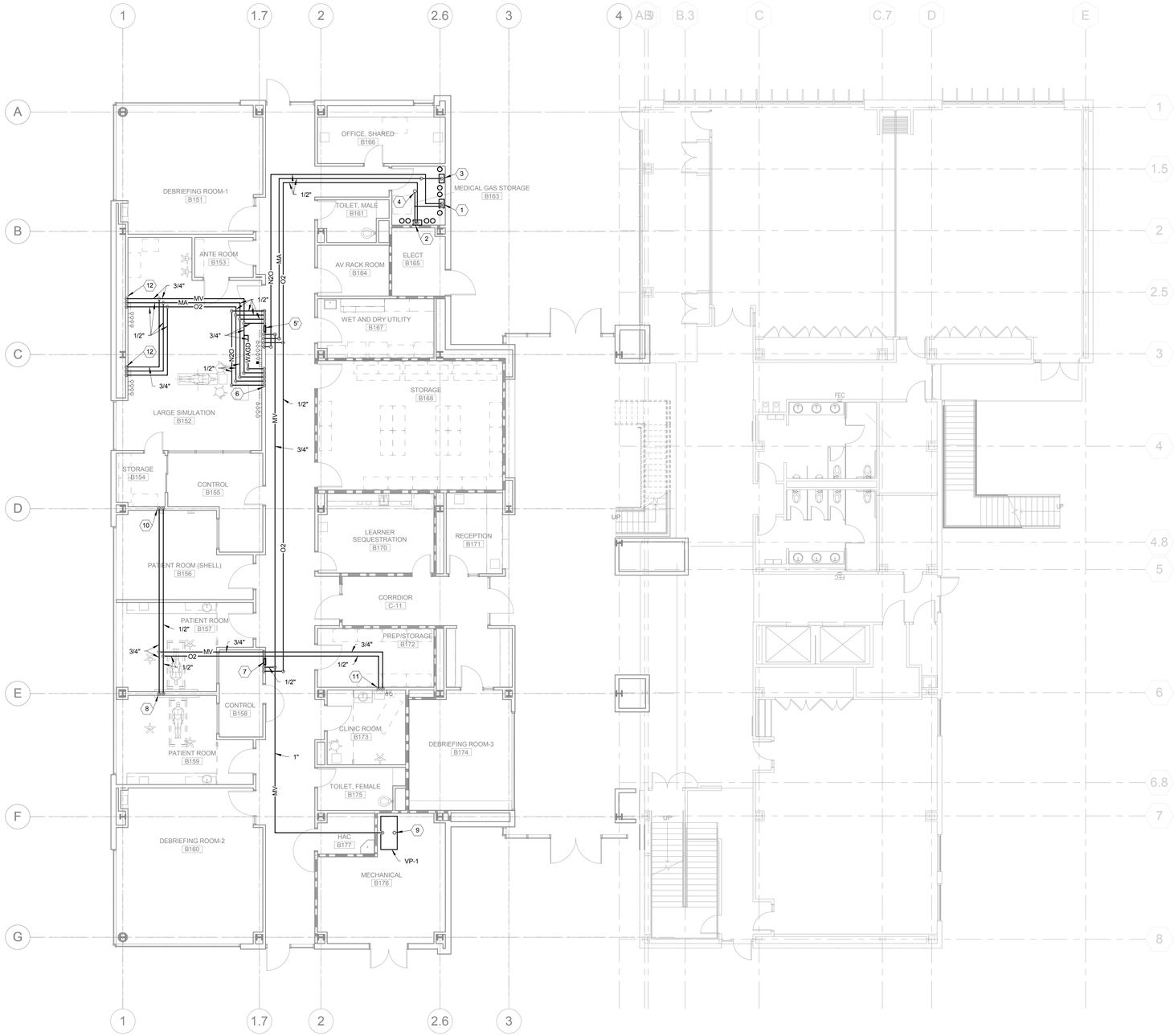
VA Project Number: 640-385

Building Number: 105

Drawing No. PL501

VA PAHCS Veterans Affairs Palo Alto Health Care System

Department of Veterans Affairs



1 LEVEL 1 FLOOR PLAN - MEDICAL GAS PIPING
1/8" = 1'-0"

GENERAL NOTES

KEY NOTES

1. N2O MANIFOLD.
2. O2 MANIFOLD.
3. MA MANIFOLD.
4. RUN 1/2" MANIFOLD RELIEF VENT UP THRU ROOF.
5. ZONE VALVE BOX WITH AREA ALARM PANEL MOUNTED ABOVE.
6. DROP 1/2" O2, 1/2" MA, 1/2" N2O, 3/4" WAGD, AND 3/4" MV DN IN WALL AND CONNECT TO (4) O2, (2) MA, (1) N2O, (1) WAGD, AND (2) MV OUTLETS/INLETS.
7. ZONE VALVE BOX.
8. DROP 1/2" O2 AND 3/4" MV DN IN WALL AND CONNECT TO OUTLETS/INLETS IN HEADWALL AS REQUIRED.
9. RUN 2" MV EXHAUST UP THRU ROOF.
10. DROP 1/2" O2 AND 3/4" MV DN IN WALL AND CAP FOR FUTURE.
11. DROP 1/2" O2 AND 3/4" MV DN IN WALL AND CONNECT TO (1) O2 AND (1) MV OUTLET/INLET.
12. DROP 1/2" O2, 1/2" MA, AND 3/4" MV DN IN WALL AND CONNECT TO (2) O2, (1) MA, AND (1) MV OUTLETS/INLETS.

LEGEND

PROJECT NORTH
TRUE NORTH

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Drawing Title
LEVEL 1 FLOOR PLAN - MEDICAL GAS PIPING

Approved: Project Director
Approver

Project Title
VA SIMULATION CENTER

Location
Veterans Affairs Palo Alto Heath Care System
3801 Miranda Ave,Palo Alto, CA 94304

Date
JUNE 14, 2013

Checked
MRG

Drawn
MRG

VA Project Number:
640-385

Building Number:
105

Drawing No.
PK101

VA PAHCS
Veterans Affairs
Palo Alto Health Care System

Department of Veterans Affairs

GENERAL NOTES

1. WHERE EXACT DIMENSIONS ARE NOT INDICATED, THE SCALE OF THIS DRAWING IS SUFFICIENTLY ACCURATE FOR DETERMINING THE LOCATION OF EQUIPMENT, JUNCTION BOXES, OUTLET BOXES, WIREWAYS, PANELS, ETC. WHERE EXACT DIMENSIONS ARE INDICATED, THE REFERENCE SURFACE SHALL BE THE FINAL FINISHED SURFACE INCLUDING ANY ACOUSTICAL TREATMENT. ROOM DIMENSIONS ON THE DRAWINGS HAVE BEEN TAKEN FROM PRELIMINARY ARCHITECTURAL DRAWINGS. ALL DIMENSIONS MUST BE VERIFIED AND ANY DEVIATIONS CAUSING CHANGES EXCEEDING 3 INCHES MUST BE COORDINATED WITH SHEN MILSOM & WILKE, INC.

2. NOTIFY OWNER'S REPRESENTATIVES OF ANY DISCREPANCIES BETWEEN THE EXISTING CONDITIONS AND THE AUDIOVISUAL DRAWINGS. OBTAIN CLARIFICATION BEFORE PRECEDING WITH WORK.

3. DRAWINGS ARE NOT TO BE USED FOR ARCHITECTURAL OR ENGINEERING PURPOSES. DRAWINGS SHOULD ONLY BE USED FOR AUDIOVISUAL SYSTEM COORDINATION AND COORDINATION WITH OTHER CONTRACTORS AND SYSTEMS. COORDINATE PATHWAYS FOR ALL AUDIOVISUAL RELATED DEVICES WITH ARCHITECTURAL AND ELECTRICAL PLANS.

4. ALL AUDIOVISUAL DEVICES SHALL BE SECURELY MOUNTED PLUMB AND STRAIGHT TO WALLS, FLOORS, OR RACKS PER THE MANUFACTURER'S RECOMMENDED MOUNTING PRACTICE, UON.

5. INSTALL FIRESTOP TO ALL SLAB AND WALL PENETRATIONS PROVIDED FOR THE INSTALLATION OF CABLE AS
REQUIRED TO MAINTAIN THE FIRE RATING OF THE SLAB OR WALL. REVIEW ARCHITECT'S PLAN FOR PARTITION TYPES.

6. REFER TO ELECTRICAL SPECIFICATION FOR INSTALLATION INSTRUCTIONS FOR FLOORBOXES, JUNCTION BOXES, PLYWOOD PANELS, GROUNDING CONDUCTORS, BUSBARS, CONDUITS, CABLE TRAYS IN CORRIDORS, METALLIC ENCLOSURES, ELECTRICAL PANEL BOARDS AND CIRCUITING. CONDUIT, JUNCTION BOXES, FLOOR BOXES, CONDUIT STUBS, GROUNDING BUSBARS AND POWER RECEPTACLES ARE SHOWN FOR REFERENCE AND COORDINATION ONLY. REFER TO THE ELECTRICAL DRAWINGS AND SPECIFICATIONS FOR ADDITIONAL DETAILS.

7. THE METHOD OF INSTALLATION OF BOXES IN WALLS, AND THE METHOD OF PASSAGE OF CONDUIT AND WIREWAYS THROUGH ACOUSTICALLY SENSITIVE WALLS, SHALL BE COORDINATED WITH THE ACOUSTICAL CONSULTANT OR ARCHITECT.

8. POWER RECEPTACLES AND TELECOMMUNICATION OUTLETS SHOWN ON AUDIOVISUAL DRAWINGS ARE DEDICATED TO SPECIFIC AUDIOVISUAL EQUIPMENT AND ARE SHOWN FOR REFERENCE ONLY. THESE RECEPTACLES SHOULD BE PROVIDED WITH ISOLATED GROUND ON A COMMON PHASE. REFER TO ELECTRICAL DRAWINGS AND TELECOMMUNICATIONS DRAWINGS FOR ADDITIONAL INFORMATION.

9. GROUND ALL AUDIOVISUAL-RELATED CONDUITS, CABLE TRAYS AND JUNCTION BOXES PER THE MANUFACTURER'S RECOMMENDATIONS AND PER ALL APPLICABLE CODES.

10. ALL AUDIOVISUAL-RELATED EMPTY CONDUIT SHALL BE REAMED, CLEANED, CAPPED (WHERE APPROPRIATE), TAGGED, AND FURNISHED WITH PULL WIRES.

11. INSTALL CABLE TRAY FOR AUDIOVISUAL WIRING TO MAINTAIN A MINIMUM OF 5" SEPARATION FROM FLUORESCENT LIGHTING.

12. THERE SHALL BE A MINIMUM OF ONE PULL BOX FOR EVERY 100' OF STRAIGHT EMPTY AUDIOVISUAL-RELATED CONDUIT AND ONE PULL BOX WHERE THERE ARE MORE THAN TWO 90° BENDS OR LESSER BENDS TOTALING 180° IN A CONDUIT RUN.

13. MAINTAIN MINIMUM BEND RADIUS OF 10X OD FOR ALL AUDIOVISUAL-RELATED CONDUITS.

14. PROVIDE STANDARD 2-1/2" DEEP GANG BOXES AS INDICATED IN DEVICE TABLE ON THIS PAGE. BOXES ARE SINGLE-GANG UNLESS OTHERWISE INDICATED BY THE SUB-NUMBER ASSOCIATED WITH A SYMBOL.

15. RECEPTACLE BOXES ARE TO BE INSTALLED AT PROJECT-STANDARD BASE HEIGHT, UON. SWITCH AND CONTROL BOXES ARE TO BE INSTALLED AT PROJECT-STANDARD SWITCH HEIGHT, UON.

16. REFER TO INDIVIDUAL AV-SERIES SHEETS FOR CONDUIT SIZING REQUIREMENTS.

17. ATTACH BOXES FOR ABOVE-CEILING DEVICES TO SLAB ABOVE FINISHED CEILING OR TO STRUCTURE.

18. LETTER ASSOCIATED WITH AV MOTOR SYMBOLS: C - CAMERA LIFT; D - DRAPERY; P - PROJECTOR LIFT; S - PROJECTION SCREEN

ABBREVIATIONS

AFC	ABOVE FINISHED CEILING
AFF	ABOVE FINISHED FLOOR
AFP	ABOVE FINISHED PLATFORM OR RAISED FLOOR
AS	ABOVE SLAB
AC	ACOUSTIC/ACOUSTICAL
APPROX	APPROXIMATE
ARCH	ARCHITECT/ARCHITECTURAL
AV	AUDIOVISUAL
A.V.C	AUDIOVISUAL CONTRACTOR
@	AT
BD	BOARD
BLDG	BUILDING
CAB	CABINET
CLG	CEILING
CH	CHANNEL
CKT	CIRCUIT
CLO	CLOSET
CLR	CLEAR
CNTR	COUNTER
COL	COLUMN
CONC	CONCRETE
CONN	CONNECTION
CONT	CONTINUOUS
DEPT	DEPARTMENT
DET	DETAIL
DIA	DIAMETER
DIM	DIMENSION
DN	DOWN
DP	DEEP/DEPTH
DWG	DRAWING
(E)	EXIST/EXISTING
EA	EACH
EC	EMPTY CONDUIT
E.C.	ELECTRICAL CONTRACTOR
ELEV	ELEVATION
ENCL	ENCLOSURE
EP	ELECTRICAL PANEL
EQ	EQUAL
EQPT	EQUIPMENT
EXT	EXTERIOR
FP	FLOOR BOX
FIN	FINISH
FT	FOOT/FEET
GC	GENERAL CONTRACTOR
HT	HEIGHT/HIGH
HOR	HORIZONTAL
ID	INSIDE DIAMETER
INT	INTERIOR
LT	LIGHT
MAX	MAXIMUM
MECH	MECHANICAL
MIN	MINIMUM
MTD	MOUNTED
MTG	MEETING
NIC	NOT IN CONTRACT
NTS	NOT TO SCALE
OC	ON CENTER
OD	OUTSIDE DIAMETER
OFCI	OWNER FURNISHED/CONTRACTOR INSTALLED
OFE	OWNER FURNISHED EQUIPMENT
OFOI	OWNER FURNISHED, OWNER INSTALLED
OPNG	OPENING
OPP	OPPOSITE
OT	OUTLET
RCRD	RECORDING
REC	RECESSED
REINF	REINFORCED
RM	ROOM
SCHED	SCHEDULE
SECT	SECTION
STD	STANDARD
SW	SWITCH
TEL	TELEPHONE
TELC	TELECOM
THK	THICK
TV	TELEVISION
TYP	TYPICAL
UON	UNLESS OTHERWISE NOTED

SYMBOLS

SYMBOL	DEVICE (FLOOR MOUNTED)
7 AV	FLOOR BOX (W/ POWER & TELECOM). COORDINATE STYLE AND CONNECTIVITY REQUIREMENTS WITH ELECTRICAL AND TELECOM.
SYMBOL	DEVICE (WALL MOUNTED)
J	JUNCTION BOX (* = (1) SINGLE GANG (2) DUAL GANG, (C) CUSTOM)
	DUAL POWER OUTLET (* = (D) DEDICATED)
	QUAD POWER OUTLET (* = (D) DEDICATED)
	TELECOMMUNICATION OUTLET
SYMBOL	DEVICE (CEILING MOUNTED)
S	FLUSH MOUNT CEILING LOUDSPEAKER
S SUB	FLUSH MOUNT CEILING SUBWOOFER
J	JUNCTION BOX (* = (1) SINGLE GANG (2) DUAL GANG, (C) CUSTOM)
	JUNCTION BOX (* = (D) DEDICATED)
7	TELECOMMUNICATION OUTLET CONNECTION
LVC	LOW VOLTAGE CONTROLLER

AV FUNCTIONAL DIAGRAM KEY LIST

KEY	DESCRIPTION	KEY	DESCRIPTION
ALS	ASSISTED LISTENING SYSTEM	MIC	MICROPHONE
AMP	AMPLIFIER	MSE	MOUSE
ANO	ANNOTATION PROCESSOR	MTX	MATRIX SWITCHER
ANT	ANTENNA	NPP	NETWORK PATCH PANEL
ASP	AUDIO SIGNAL PROCESSOR	PSW	PROJECTION SCREEN SWITCH
CAM	CAMERA	RPT	RACK PLATE
CCU	CAMERA CONTROL UNIT	SPK	LOUDSPEAKER
CMP	COMPUTER	TBD	TELEPHONE HYBRID
CPL	CONTROL PANEL	TBX	TABLE BOX
CSP	CONTROL SYSTEM PROCESOR	TUN	TUNER
DOC	DOCUMENT CAMERA	TXF	BALANCING/UNBALANCING AUDIO TRANSFORMER
DVD	DIGITAL VIDEO DISC	VPJ	VIDEO PROJECTOR
ESW	ETHERNET DEVICE	VSP	VIDEO SIGNAL PROCESSOR
ETH	FLOOR BOX	VTC	VIDEO CONFERENCING CODEC
FOR	FIBER OPTIC RECEIVER	USB	USB DEVICE
FOT	FIBER OPTIC TRANSMITTER	WAC	WIRELESS ACCESS CONTROLLER
FPD	FLAT PANEL DISPLAY	WAP	WIRELESS ACCESS POINT
IRM	INFRARED MODULATOR	WPT	WALL PLATE
IRT	INFRARED TRANSMITTER		
KBD	KEYBOARD		
LVC	LOW VOLTAGE CONTROLLER		

DRAWING LIST

AV0000	AV SYSTEMS GENERAL NOTES, ABBREVIATIONS, SYMBOLS AND DRAWING LIST
AV0201	AV SYSTEMS LEVEL 1 FLOOR PLAN
AV0300	AV SYSTEMS LARGE SIMULATION ROOM 152 ENLARGED PLANS
AV0301	AV SYSTEMS LARGE SIMULATION ROOM 152 ENLARGED PLANS
AV0302	AV SYSTEMS DEBRIEFING ROOM #1 151 ENLARGED PLANS
AV0303	AV SYSTEMS DEBRIEFING ROOM #2 160 ENLARGED PLANS
AV0304	AV SYSTEMS DEBRIEFING ROOM #3 174 ENLARGED PLANS
AV0305	AV SYSTEMS PATIENT ROOMS 156, 157 & 159 ENLARGED PLANS
AV0306	AV SYSTEMS PATIENT ROOMS 156, 157 & 159 ENLARGED PLANS
AV0307	AV SYSTEMS CLINIC ROOM 173 ENLARGED PLANS
AV0308	AV SYSTEMS AV RACK ROOM 164 ENLARGED PLANS
AV0309	AV SYSTEMS LEARNER SEQUESTRATION B170 ENLARGED PLANS
AV0400	AV SYSTEMS ELEVATIONS
AV0401	AV SYSTEMS ELEVATIONS
AV0500	AV SYSTEMS DETAILS
AV0501	AV SYSTEMS DETAILS
AV0600	AV SYSTEMS LARGE SIMULATION ROOM VIDEO FUNCTIONAL DIAGRAM
AV0601	AV SYSTEMS LARGE SIMULATION ROOM AUDIO FUNCTIONAL DIAGRAM
AV0602	AV SYSTEMS DEBRIEFING ROOMS VIDEO FUNCTIONAL DIAGRAM
AV0603	AV SYSTEMS DEBRIEFING ROOMS AUDIO FUNCTIONAL DIAGRAM
AV0604	AV SYSTEMS PATIENT ROOMS & CLINICAL ROOM VIDEO FUNCTIONAL DIAGRAM
AV0605	AV SYSTEMS PATIENT ROOMS & CLINICAL ROOM VIDEO FUNCTIONAL DIAGRAM
AV0606	AV SYSTEMS PATIENT ROOMS AUDIO FUNCTIONAL DIAGRAM
AV0607	AV SYSTEMS NETWORK & CONTROL FUNCTIONAL DIAGRAM

GENERAL NOTES

KEY NOTES

LEGEND

ISSUE FOR BID

Revisions	Date
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Seals and Signatures

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Houston ■ Los Angeles ■ Mumbai ■ New York ■ Phoenix
St. Louis ■ San Francisco ■ Shanghai ■ Toronto
Vancouver ■ Victoria ■ Washington DC

Drawing Title: AV SYSTEMS GENERAL NOTES, ABBREVIATIONS, SYMBOLS AND DRAWING LIST

Approved: Project Director
Approver

Project Title: VA SIMULATION CENTER

Location: Veterans Affairs Palo Alto Heath Care System, 3801 Miranda Ave,Palo Alto, CA 94304

Date: JUNE 14, 2013 | Checked: SS | Drawn: RM

VA Project Number: 640-385

Building Number: 105

Drawing No. AV0000

VA PAHCS Veterans Affairs Palo Alto Health Care System

Department of Veterans Affairs

1 AV SYSTEMS LEVEL 1 FLOOR PLAN
1/8" = 1'-0"

GENERAL NOTES

KEY NOTES

LEGEND

PROJECT NORTH
TRUE NORTH

ISSUE FOR BID

Revisions	Date
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St. Louis ■ San Francisco ■ Shanghai ■ Toronto
Vancouver ■ Victoria ■ Washington DC

Drawing Title: AV SYSTEMS LEVEL 1 FLOOR PLAN

Approved: Project Director
Approver

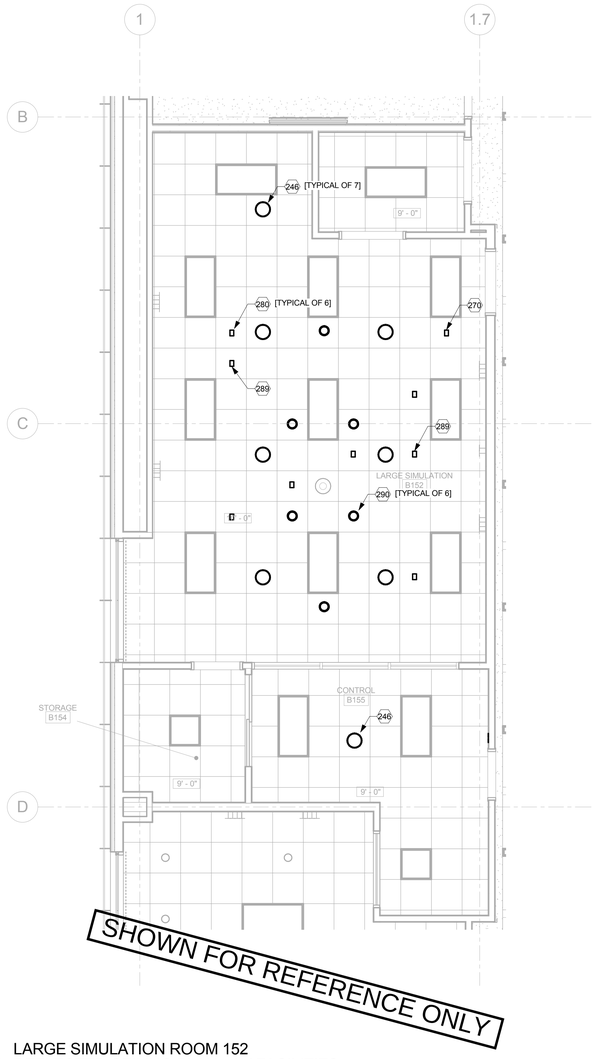
Project Title: VA SIMULATION CENTER

Location: Veterans Affairs Palo Alto Heath Care System
3801 Miranda Ave,Palo Alto, CA 94304

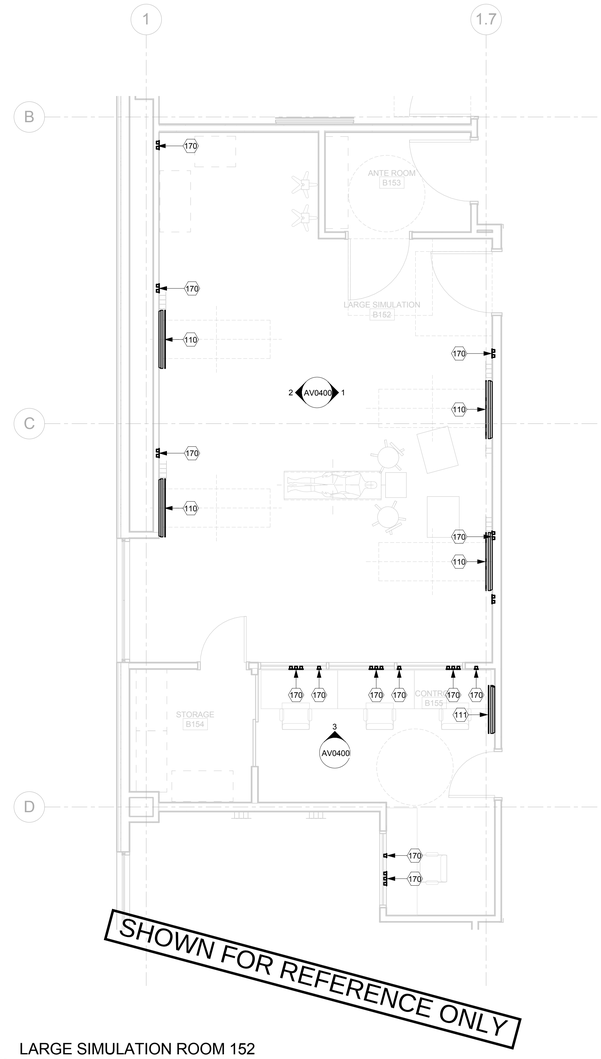
Date: JUNE 14, 2013
Checked: SS
Drawn: RM

VA Project Number: 640-385
Building Number: 105
Drawing No. AV0201

VA PAHCS Veterans Affairs Palo Alto Health Care System
Department of Veterans Affairs



2 LARGE SIMULATION ROOM 152
REFLECTED CEILING PLAN - AV FACILITIES
1/4" = 1'-0"



1 LARGE SIMULATION ROOM 152
FLOOR PLAN - AV FACILITIES
1/4" = 1'-0"

AV FLOOR PLAN FACILITIES NOTES:

110 52" FLAT PANEL DISPLAY - OFOI

111 42" FLAT PANEL DISPLAY - OFOI

170 AV CONNECTION PANEL - OFOI

AV RCP FACILITIES NOTES:

246 CEILING-RECESSED LOUDSPEAKER - OFOI

270 WIRELESS ACCESS POINT - OFOI

280 CEILING MICROPHONE (BOUNDARY LAYER) - OFOI

289 CEILING RF ANTENNA - OFOI

290 CEILING CAMERA - OFOI

GENERAL NOTES

1. REFER TO TELECOMMUNICATIONS DRAWINGS FOR PRIMARY CABLE PATHWAYS AND CABLE MANAGEMENT INFORMATION.
2. STUB ALL AV CONDUIT ABOVE FINISHED CEILING IN AN ACCESSIBLE LOCATION U.O.N. IF AN ACCESSIBLE LOCATION CAN NOT BE PROVIDED STUB CONDUIT TO NEAREST CABLE TRAY.
3. NON-CONTINUOUS CABLE SUPPORT IS REQUIRED FOR SECONDARY CABLE PATHWAYS ABOVE ACCESSIBLE CEILINGS.
4. ELECTRICAL AND TELECOMMUNICATION SYMBOLS SHOWN FOR INFORMATION AND COORDINATION ONLY.

KEY NOTES

LEGEND

PROJECT NORTH
TRUE NORTH

ISSUE FOR BID

Revisions	Date
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St. Louis ■ San Francisco ■ Shanghai ■ Toronto
Vancouver ■ Victoria ■ Washington DC

Drawing Title
AV SYSTEMS LARGE SIMULATION ROOM 152 ENLARGED PLANS

Approved: Project Director
Approver

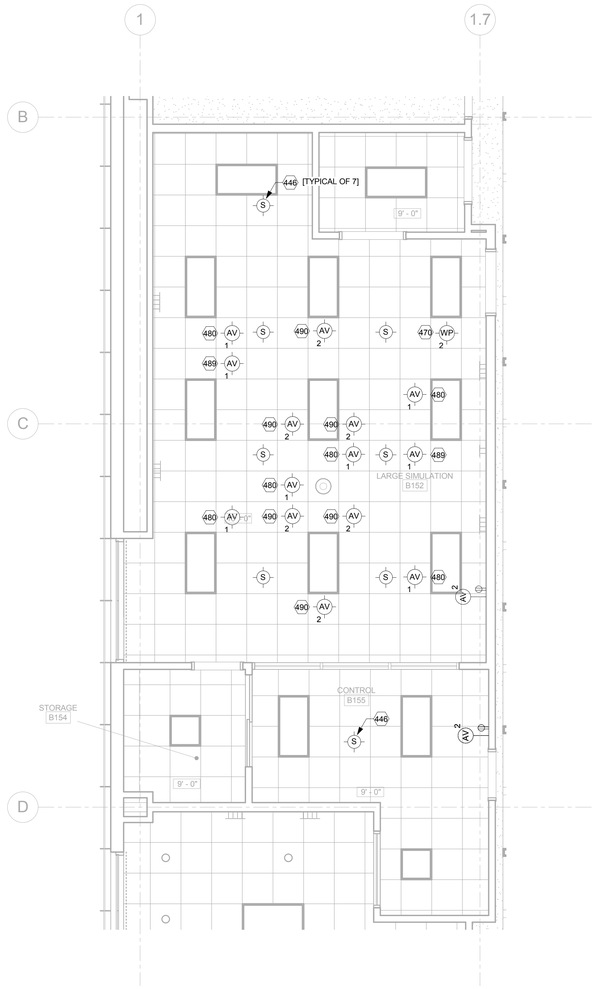
Project Title
VA SIMULATION CENTER

Location
Veterans Affairs Palo Alto Heath Care System
3801 Miranda Ave,Palo Alto, CA 94304

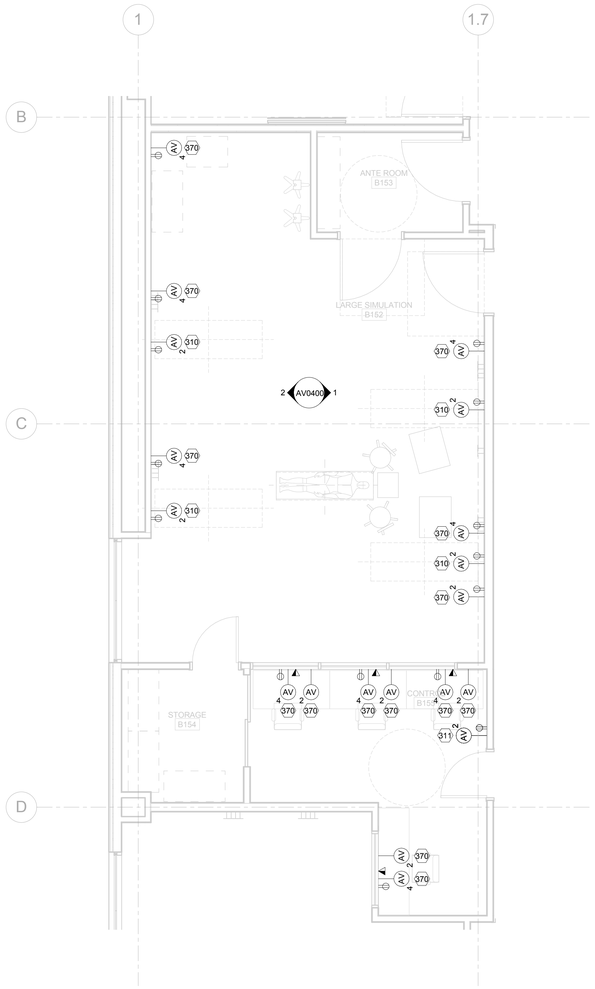
Date JUNE 14, 2013 | Checked SS | Drawn RM

VA Project Number: 640-385
Building Number: 105
Drawing No. AV0300

VA PAHCS Veterans Affairs Palo Alto Health Care System
Department of Veterans Affairs



2 LARGE SIMULATION ROOM 152
REFLECTED CEILING PLAN - AV ELECTRICAL
1/4" = 1'-0"



1 LARGE SIMULATION ROOM 152
FLOOR PLAN - AV ELECTRICAL
1/4" = 1'-0"

AV FLOOR PLAN ELECTRICAL NOTES:

310 52" FLAT PANEL DISPLAY
- (1) 1" EMT

311 42" FLAT PANEL DISPLAY
- (1) 1" EMT

370 AV CONNECTION PANEL
- (2) 1-1/4" EMT

AV RCP ELECTRICAL NOTES:

446 CEILING-RECESSED LOUDSPEAKER
- (1) 3/4 EMT TO FIRST SPEAKER THEN,
- (1) 3/4 EMT BETWEEN LOUDSPEAKERS

470 WIRELESS ACCESS POINT

480 CEILING MICROPHONE
- (1) 3/4" EMT

489 CEILING RF ANTENNA
- (1) 3/4" EMT

490 CEILING CAMERA
- (1) 1" EMT

GENERAL NOTES

1. REFER TO TELECOMMUNICATIONS DRAWINGS FOR PRIMARY CABLE PATHWAYS AND CABLE MANAGEMENT INFORMATION.
2. STUB ALL AV CONDUIT ABOVE FINISHED CEILING IN AN ACCESSIBLE LOCATION U.O.N. IF AN ACCESSIBLE LOCATION CAN NOT BE PROVIDED STUB CONDUIT TO NEAREST CABLE TRAY.
3. NON-CONTINUOUS CABLE SUPPORT IS REQUIRED FOR SECONDARY CABLE PATHWAYS ABOVE ACCESSIBLE CEILINGS.
4. ELECTRICAL AND TELECOMMUNICATION SYMBOLS SHOWN FOR INFORMATION AND COORDINATION ONLY.

KEY NOTES

LEGEND

PROJECT NORTH
TRUE NORTH

ISSUE FOR BID

Revisions	Date
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Drawing Title
AV SYSTEMS LARGE SIMULATION ROOM 152 ENLARGED PLANS

Approved: Project Director
Approver

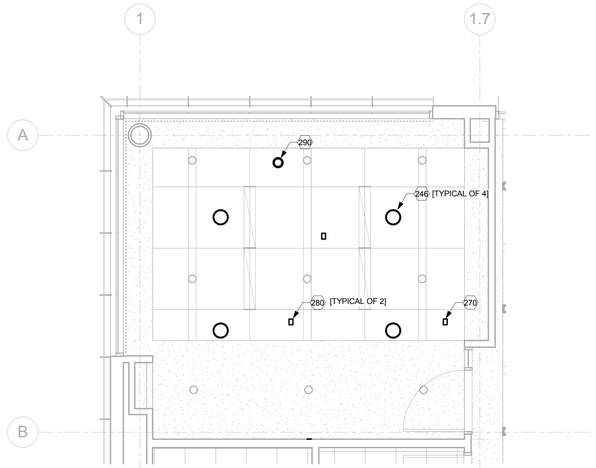
Project Title
VA SIMULATION CENTER

Location Veterans Affairs Palo Alto Heath Care System
3801 Miranda Ave,Palo Alto, CA 94304

Date JUNE 14, 2013 | Checked SS | Drawn RM

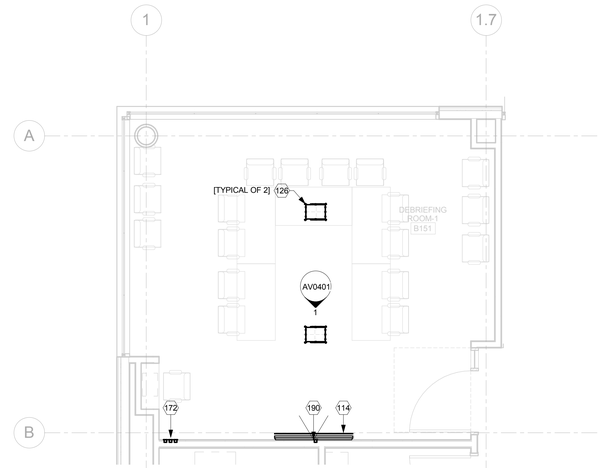
VA Project Number: 640-385
Building Number: 105
Drawing No. AV0301

VA PAHCS Veterans Affairs Palo Alto Health Care System
Department of Veterans Affairs



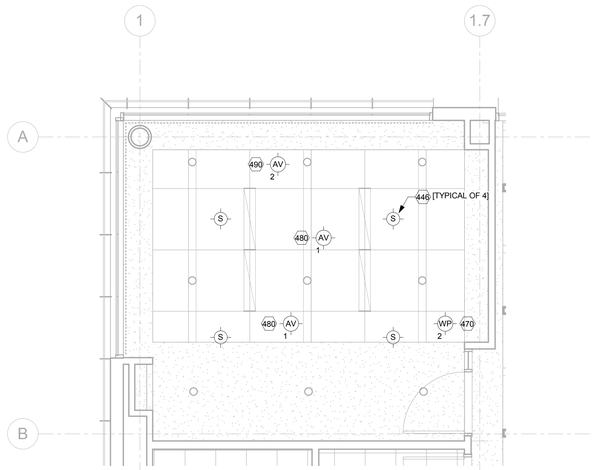
SHOWN FOR REFERENCE ONLY

2 DEBRIEFING ROOM #1 151
REFLECTED CEILING PLAN - AV FACILITIES
1/4" = 1'-0"

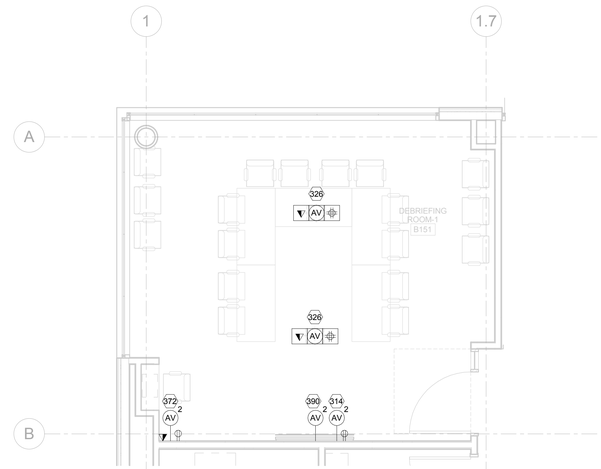


SHOWN FOR REFERENCE ONLY

1 DEBRIEFING ROOM #1 151
FLOOR PLAN - AV FACILITIES
1/4" = 1'-0"



4 DEBRIEFING ROOM #1 151
REFLECTED CEILING PLAN - AV ELECTRICAL
1/4" = 1'-0"



3 DEBRIEFING ROOM #1 151
FLOOR PLAN - AV ELECTRICAL
1/4" = 1'-0"

AV FLOOR PLAN FACILITIES NOTES:

114 70" FLAT PANEL DISPLAY - OFOI
126 FLOOR BOX - OFOI
172 AV CONNECTION PANEL - OFOI
190 WALL-MOUNTED CAMERA - OFOI

AV RCP FACILITIES NOTES:

246 CEILING-RECESSED LOUDSPEAKER - OFOI
470 WIRELESS ACCESS POINT - OFOI
280 CEILING MICROPHONE (BOUNDARY LAYER) - OFOI
290 CEILING CAMERA - OFOI

AV FLOOR PLAN ELECTRICAL NOTES:

314 70" FLAT PANEL DISPLAY
- (1) 1" EMT

326 FLOOR BOX
- (2) 1-1/4" EMT

372 AV CONNECTION PANEL
- (1) 1" EMT

390 WALL-MOUNTED CAMERA
- (1) 1" EMT

AV RCP ELECTRICAL NOTES:

446 CEILING-RECESSED LOUDSPEAKER
- (1) 3/4 EMT TO FIRST SPEAKER THEN,
- (1) 3/4 EMT BETWEEN LOUDSPEAKERS

470 WIRELESS ACCESS POINT
- (1) 3/4" EMT

480 CEILING MICROPHONE
- (1) 3/4" EMT

490 CEILING CAMERA
- (1) 1" EMT

GENERAL NOTES

1. REFER TO TELECOMMUNICATIONS DRAWINGS FOR PRIMARY CABLE PATHWAYS AND CABLE MANAGEMENT INFORMATION.
2. STUB ALL AV CONDUIT ABOVE FINISHED CEILING IN AN ACCESSIBLE LOCATION U.O.N. IF AN ACCESSIBLE LOCATION CAN NOT BE PROVIDED STUB CONDUIT TO NEAREST CABLE TRAY.
3. NON-CONTINUOUS CABLE SUPPORT IS REQUIRED FOR SECONDARY CABLE PATHWAYS ABOVE ACCESSIBLE CEILINGS.
4. ELECTRICAL AND TELECOMMUNICATION SYMBOLS SHOWN FOR INFORMATION AND COORDINATION ONLY.

KEY NOTES

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PROJECT NORTH
TRUE NORTH

ISSUE FOR BID

Revisions	Date
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Drawing Title
AV SYSTEMS DEBRIEFING ROOM #1 151 ENLARGED PLANS

Approved: Project Director
Approver

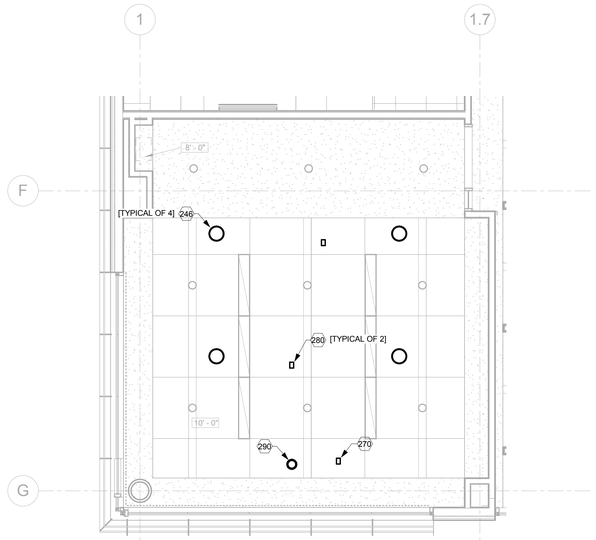
Project Title
VA SIMULATION CENTER

Location
Veterans Affairs Palo Alto Heath Care System
3801 Miranda Ave,Palo Alto, CA 94304

Date: JUNE 14, 2013
Checked: SS
Drawn: RM

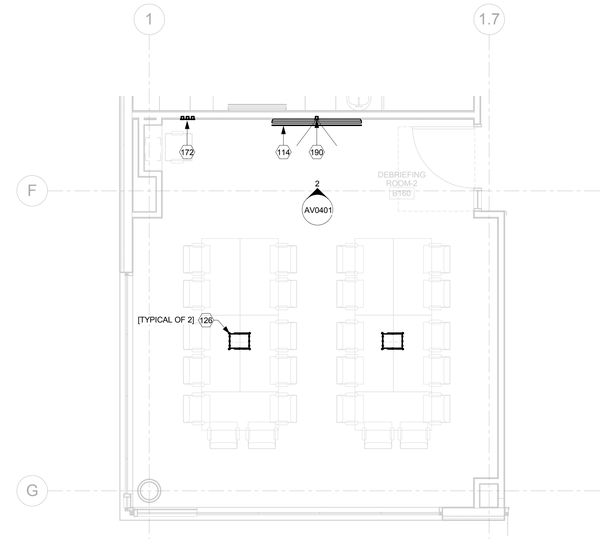
VA Project Number: 640-385
Building Number: 105
Drawing No. AV0302

VA PAHCS Veterans Affairs Palo Alto Health Care System
Department of Veterans Affairs



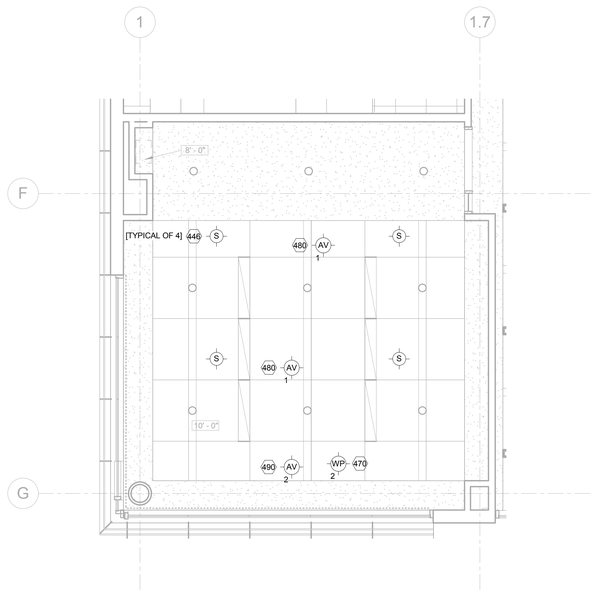
SHOWN FOR REFERENCE ONLY

2 DEBRIEFING ROOM #2 160
REFLECTED CEILING PLAN - AV FACILITIES
1/4" = 1'-0"

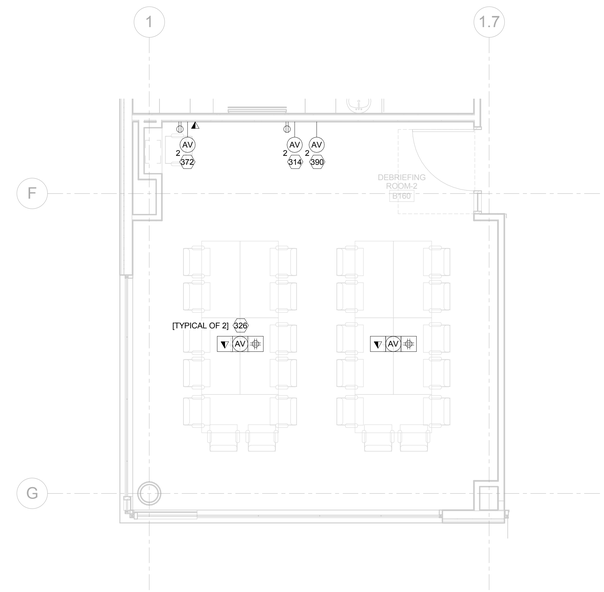


SHOWN FOR REFERENCE ONLY

1 DEBRIEFING ROOM #2 160
FLOOR PLAN - AV FACILITIES
1/4" = 1'-0"



4 DEBRIEFING ROOM #2 160
REFLECTED CEILING PLAN - AV ELECTRICAL
1/4" = 1'-0"



3 DEBRIEFING ROOM #2 160
FLOOR PLAN - AV ELECTRICAL
1/4" = 1'-0"

AV FLOOR PLAN FACILITIES NOTES:

114 80" FLAT PANEL DISPLAY - OFOI

126 FLOOR BOX - OFOI

172 AV CONNECTION PANEL - OFOI

190 WALL-MOUNTED CAMERA - OFOI

AV RCP FACILITIES NOTES:

246 CEILING-RECESSED LOUDSPEAKER - OFOI

270 WIRELESS ACCESS POINT - OFOI

280 CEILING MICROPHONE (BOUNDARY LAYER) - OFOI

290 CEILING CAMERA - OFOI

AV FLOOR PLAN ELECTRICAL NOTES:

314 80" FLAT PANEL DISPLAY
- (1) 1" EMT

326 FLOOR BOX
- (2) 1-1/4" EMT

372 AV CONNECTION PANEL (ROOM COMPUTER)
- (1) 1" EMT

390 WALL-MOUNTED CAMERA
- (1) 1" EMT

AV RCP ELECTRICAL NOTES:

446 CEILING-RECESSED LOUDSPEAKER
- (1) 3/4 EMT TO FIRST SPEAKER THEN,
- (1) 3/4 EMT BETWEEN LOUDSPEAKERS

470 WIRELESS ACCESS POINT
- (1) 3/4 EMT

480 CEILING MICROPHONE
- (1) 3/4" EMT

490 CEILING CAMERA
- (1) 1" EMT

GENERAL NOTES

1. REFER TO TELECOMMUNICATIONS DRAWINGS FOR PRIMARY CABLE PATHWAYS AND CABLE MANAGEMENT INFORMATION.
2. STUB ALL AV CONDUIT ABOVE FINISHED CEILING IN AN ACCESSIBLE LOCATION U.O.N. IF AN ACCESSIBLE LOCATION CAN NOT BE PROVIDED STUB CONDUIT TO NEAREST CABLE TRAY.
3. NON-CONTINUOUS CABLE SUPPORT IS REQUIRED FOR SECONDARY CABLE PATHWAYS ABOVE ACCESSIBLE CEILINGS.
4. ELECTRICAL AND TELECOMMUNICATION SYMBOLS SHOWN FOR INFORMATION AND COORDINATION ONLY.

KEY NOTES

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PROJECT NORTH
TRUE NORTH

ISSUE FOR BID

Revisions	Date
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Vancouver ■ Victoria ■ Washington DC

Drawing Title
AV SYSTEMS DEBRIEFING ROOM #2 160 ENLARGED PLANS

Approved: Project Director
Approver

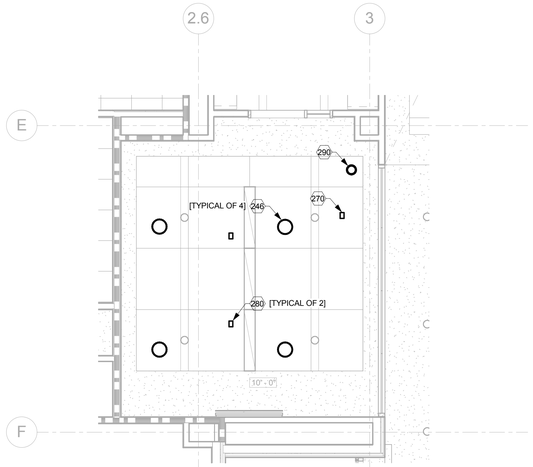
Project Title
VA SIMULATION CENTER

Location
Veterans Affairs Palo Alto Heath Care System
3801 Miranda Ave,Palo Alto, CA 94304

Date: JUNE 14, 2013
Checked: SS
Drawn: RM

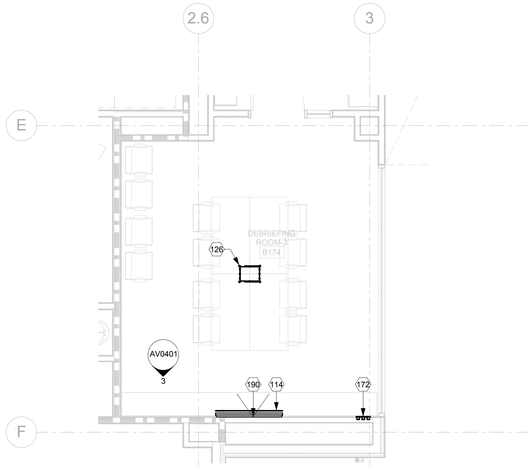
VA Project Number: 640-385
Building Number: 105
Drawing No. AV0303

VA PAHCS
Veterans Affairs Palo Alto Health Care System
Department of Veterans Affairs



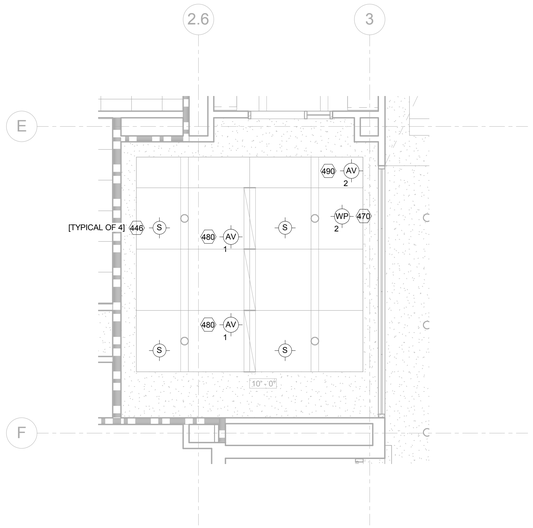
SHOWN FOR REFERENCE ONLY

2 DEBRIEFING ROOM #3 174
REFLECTED CEILING PLAN - AV FACILITIES
1/4" = 1'-0"

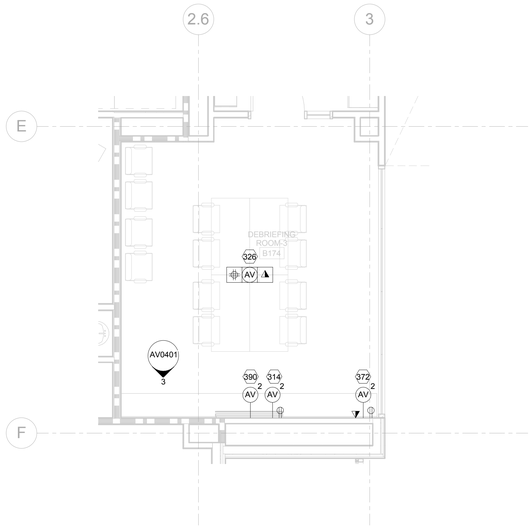


SHOWN FOR REFERENCE ONLY

1 DEBRIEFING ROOM #3 174
FLOOR PLAN - AV FACILITIES
1/4" = 1'-0"



4 DEBRIEFING ROOM #3 174
REFLECTED CEILING PLAN - AV ELECTRICAL
1/4" = 1'-0"



3 DEBRIEFING ROOM #3 174
FLOOR PLAN - AV ELECTRICAL
1/4" = 1'-0"

AV FLOOR PLAN FACILITIES NOTES:

114 60" FLAT PANEL DISPLAY - OFOI

126 FLOOR BOX - OFOI

172 AV CONNECTION PANEL - OFOI

190 WALL-MOUNTED CAMERA - OFOI

AV RCP FACILITIES NOTES:

246 CEILING-RECESSED LOUDSPEAKER - OFOI

270 WIRELESS ACCESS POINT - OFOI

280 CEILING MICROPHONE (BOUNDARY LAYER) - OFOI

290 CEILING CAMERA - OFOI

AV FLOOR PLAN ELECTRICAL NOTES:

314 60" FLAT PANEL DISPLAY
- (1) 1" EMT

326 FLOOR BOX
- (2) 1-1/4" EMT

372 AV CONNECTION PANEL
- (1) 1" EMT

390 WALL-MOUNTED CAMERA
- (1) 1" EMT

AV RCP ELECTRICAL NOTES:

446 CEILING-RECESSED LOUDSPEAKER
- (1) 3/4 EMT TO FIRST SPEAKER THEN,
- (1) 3/4 EMT BETWEEN LOUDSPEAKERS

470 WIRELESS ACCESS POINT
- (1) 3/4" EMT

480 CEILING MICROPHONE
- (1) 3/4" EMT

490 CEILING CAMERA
- (1) 1" EMT

GENERAL NOTES

1. REFER TO TELECOMMUNICATIONS DRAWINGS FOR PRIMARY CABLE PATHWAYS AND CABLE MANAGEMENT INFORMATION.
2. STUB ALL AV CONDUIT ABOVE FINISHED CEILING IN AN ACCESSIBLE LOCATION U.O.N. IF AN ACCESSIBLE LOCATION CAN NOT BE PROVIDED STUB CONDUIT TO NEAREST CABLE TRAY.
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KEY NOTES

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Drawing Title
AV SYSTEMS DEBRIEFING ROOM #3 174 ENLARGED PLANS

Approved: Project Director
Approver

Project Title
VA SIMULATION CENTER

Location
Veterans Affairs Palo Alto Heath Care System
3801 Miranda Ave,Palo Alto, CA 94304

Date
JUNE 14, 2013

Checked
SS

Drawn
RM

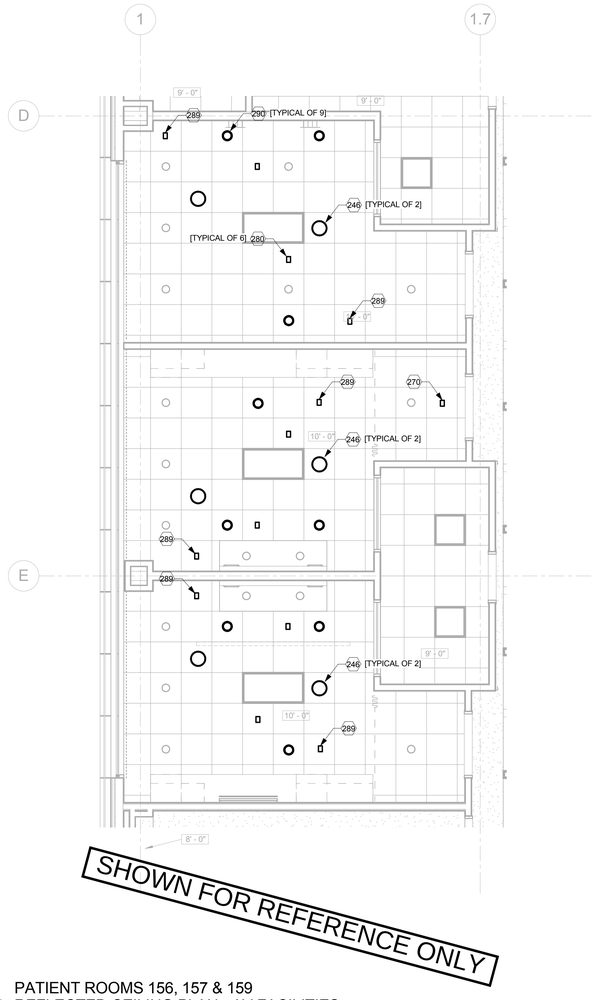
VA Project Number:
640-385

Building Number:
105

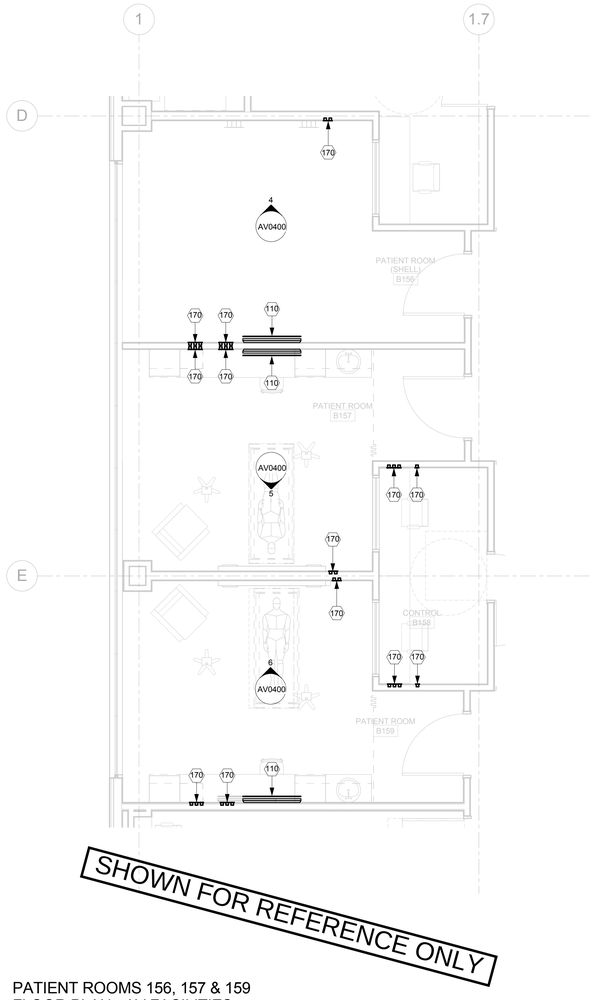
Drawing No.
AV0304

VA PAHCS
Veterans Affairs
Palo Alto Health Care System

Department of Veterans Affairs



2 PATIENT ROOMS 156, 157 & 159
REFLECTED CEILING PLAN - AV FACILITIES
1/4" = 1'-0"



1 PATIENT ROOMS 156, 157 & 159
FLOOR PLAN - AV FACILITIES
1/4" = 1'-0"

AV FLOOR PLAN FACILITIES NOTES:

110 52" FLAT PANEL DISPLAY - OFOI

170 AV CONNECTION PANEL - OFOI

AV RCP FACILITIES NOTES:

246 CEILING-RECESSED LOUDSPEAKER

270 WIRELESS ACCESS POINT

280 CEILING MICROPHONE (BOUNDARY LAYER)

289 CEILING RF ANTENNA

290 CEILING CAMERA

GENERAL NOTES

1. REFER TO TELECOMMUNICATIONS DRAWINGS FOR PRIMARY CABLE PATHWAYS AND CABLE MANAGEMENT INFORMATION.
2. STUB ALL AV CONDUIT ABOVE FINISHED CEILING IN AN ACCESSIBLE LOCATION U.O.N. IF AN ACCESSIBLE LOCATION CAN NOT BE PROVIDED STUB CONDUIT TO NEAREST CABLE TRAY.
3. NON-CONTINUOUS CABLE SUPPORT IS REQUIRED FOR SECONDARY CABLE PATHWAYS ABOVE ACCESSIBLE CEILINGS.
4. ELECTRICAL AND TELECOMMUNICATION SYMBOLS SHOWN FOR INFORMATION AND COORDINATION ONLY.

KEY NOTES

LEGEND

PROJECT NORTH
TRUE NORTH

ISSUE FOR BID

Revisions	Date
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Vancouver ■ Victoria ■ Washington DC

Drawing Title
AV SYSTEMS PATIENT ROOMS 156, 157 & 159 ENLARGED PLANS

Approved: Project Director
Approver

Project Title
VA SIMULATION CENTER

Location
Veterans Affairs Palo Alto Heath Care System
3801 Miranda Ave,Palo Alto, CA 94304

Date
JUNE 14, 2013

Checked
SS

Drawn
RM

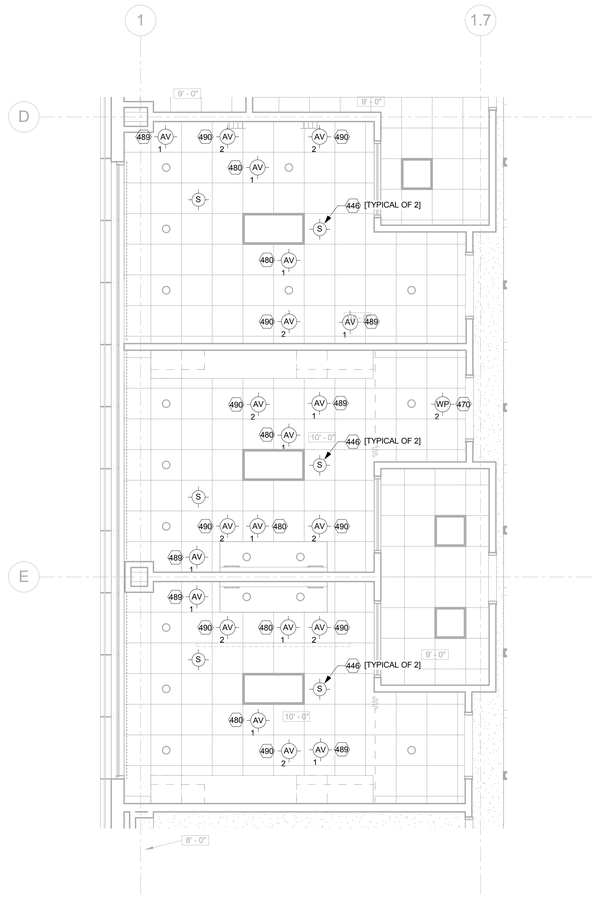
VA Project Number:
640-385

Building Number:
105

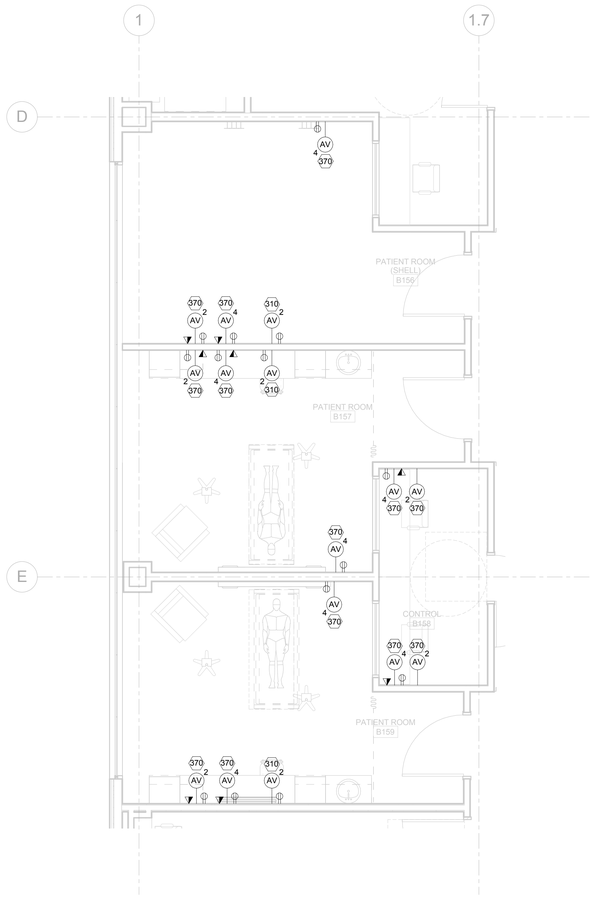
Drawing No.
AV0305

VA PAHCS
Veterans Affairs
Palo Alto Health Care System

Department of Veterans Affairs



2 PATIENT ROOMS 156, 157 & 159
REFLECTED CEILING PLAN - AV ELECTRICAL
1/4" = 1'-0"



1 PATIENT ROOMS 156, 157 & 159
FLOOR PLAN - AV ELECTRICAL
1/4" = 1'-0"

AV FLOOR PLAN ELECTRICAL NOTES:

310 52" FLAT PANEL DISPLAY
- (1) 1" EMT

370 AV CONNECTION PANEL
- (2) 1-1/4" EMT

AV RCP ELECTRICAL NOTES:

446 CEILING-RECESSED LOUDSPEAKER
- (1) 3/4 EMT TO FIRST SPEAKER THEN,
- (1) 3/4 EMT BETWEEN LOUDSPEAKERS

470 WIRELESS ACCESS POINT
- (1) 3/4" EMT

480 CEILING MICROPHONE
- (1) 3/4" EMT

489 CEILING RF ANTENNA
- (1) 3/4" EMT

490 CEILING CAMERA
- (1) 1" EMT

GENERAL NOTES

1. REFER TO TELECOMMUNICATIONS DRAWINGS FOR PRIMARY CABLE PATHWAYS AND CABLE MANAGEMENT INFORMATION.
2. STUB ALL AV CONDUIT ABOVE FINISHED CEILING IN AN ACCESSIBLE LOCATION U.O.N. IF AN ACCESSIBLE LOCATION CAN NOT BE PROVIDED STUB CONDUIT TO NEAREST CABLE TRAY.
3. NON-CONTINUOUS CABLE SUPPORT IS REQUIRED FOR SECONDARY CABLE PATHWAYS ABOVE ACCESSIBLE CEILINGS.
4. ELECTRICAL AND TELECOMMUNICATION SYMBOLS SHOWN FOR INFORMATION AND COORDINATION ONLY.

KEY NOTES

LEGEND

PROJECT NORTH
TRUE NORTH

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Revisions	Date
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Vancouver ■ Victoria ■ Washington DC

Drawing Title
AV SYSTEMS PATIENT ROOMS 156, 157 & 159 ENLARGED PLANS

Approved: Project Director
Approver

Project Title
VA SIMULATION CENTER

Location
Veterans Affairs Palo Alto Heath Care System
3801 Miranda Ave,Palo Alto, CA 94304

Date
JUNE 14, 2013

Checked
SS

Drawn
RM

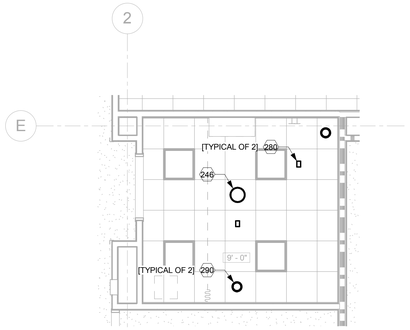
VA Project Number:
640-385

Building Number:
105

Drawing No.
AV0306

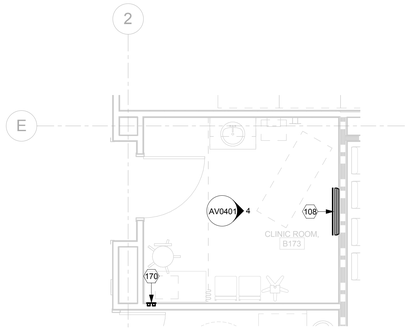
VA PAHCS
Veterans Affairs
Palo Alto Health Care System

Department of Veterans Affairs



SHOWN FOR REFERENCE ONLY

CLINIC ROOM 173
REFLECTED CEILING PLAN - AV FACILITIES
2 1/4" = 1'-0"



SHOWN FOR REFERENCE ONLY

CLINIC ROOM 173
FLOOR PLAN - AV FACILITIES
1 1/4" = 1'-0"

AV FLOOR PLAN FACILITIES NOTES:

108 42" FLAT PANEL DISPLAY - OFOI

170 AV CONNECTION PANEL - OFOI

AV RCP FACILITIES NOTES:

246 CEILING-RECESSED LOUDSPEAKER - OFOI

280 CEILING MICROPHONE (BOUNDARY LAYER) - OFOI

290 CEILING CAMERA - OFOI

AV FLOOR PLAN ELECTRICAL NOTES:

308 42" FLAT PANEL DISPLAY
- (1) 1" EMT

370 AV CONNECTION PANEL
- (2) 1-1/4" EMT

AV RCP ELECTRICAL NOTES:

446 CEILING-RECESSED LOUDSPEAKER
- (1) 3/4 EMT TO FIRST SPEAKER THEN,
- (1) 3/4 EMT BETWEEN LOUDSPEAKERS

480 CEILING MICROPHONE
- (1) 3/4" EMT

490 CEILING CAMERA
- (1) 1" EMT

CLINIC ROOM 173
REFLECTED CEILING PLAN - AV ELECTRICAL
4 1/4" = 1'-0"

CLINIC ROOM 173
FLOOR PLAN - AV ELECTRICAL
3 1/4" = 1'-0"

GENERAL NOTES

1. REFER TO TELECOMMUNICATIONS DRAWINGS FOR PRIMARY CABLE PATHWAYS AND CABLE MANAGEMENT INFORMATION.
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KEY NOTES

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Vancouver ■ Victoria ■ Washington DC

Drawing Title
AV SYSTEMS CLINIC ROOM 173
ENLARGED PLANS

Approved: Project Director
Approver

Project Title
VA SIMULATION CENTER

Location
Veterans Affairs Palo Alto Heath Care System
3801 Miranda Ave,Palo Alto, CA 94304

Date
JUNE 14, 2013

Checked
SS

Drawn
RM

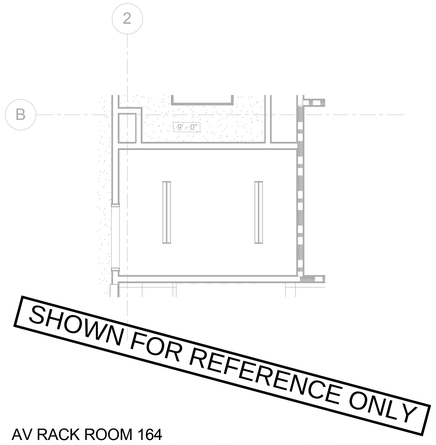
VA Project Number:
640-385

Building Number:
105

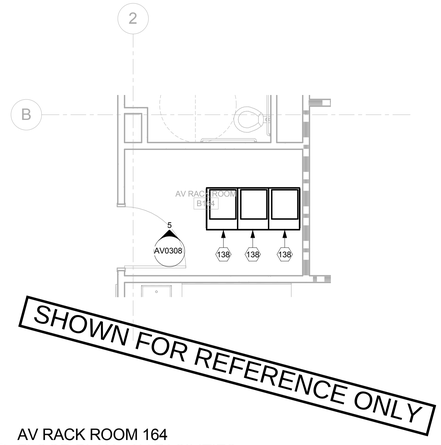
Drawing No.
AV0307

VA PAHCS
Veterans Affairs
Palo Alto Health Care System

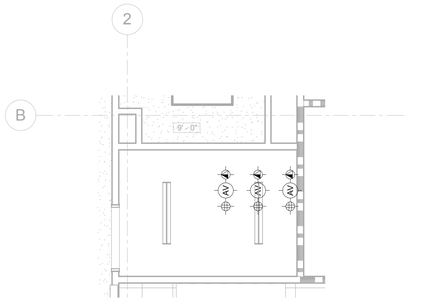
Department of Veterans Affairs



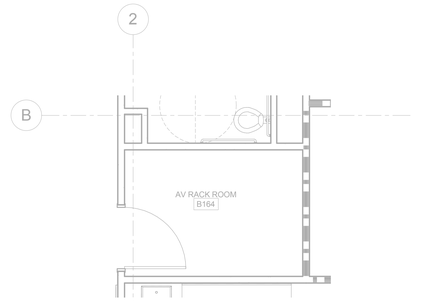
2 AV RACK ROOM 164
REFLECTED CEILING PLAN - AV FACILITIES
1/4" = 1'-0"



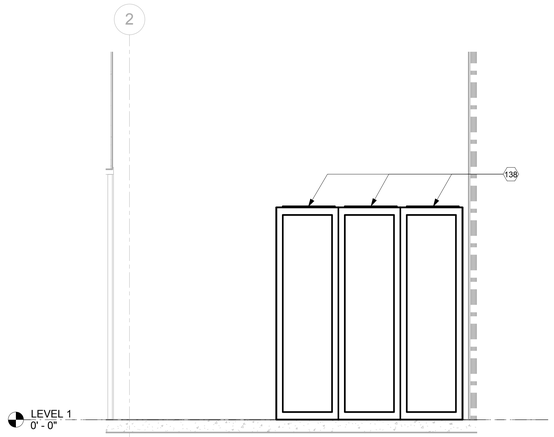
1 AV RACK ROOM 164
FLOOR PLAN - AV FACILITIES
1/4" = 1'-0"



4 AV RACK ROOM 164
REFLECTED CEILING PLAN - AV ELECTRICAL
1/4" = 1'-0"



3 AV RACK ROOM 164
FLOOR PLAN - AV ELECTRICAL
1/4" = 1'-0"



5 AV RACK ROOM 164
RACK ELEVATION
1/2" = 1'-0"

AV FLOOR PLAN FACILITIES NOTES:

138 AV EQUIPMENT CABINET - OFOI

- CABLE TRAY, CONDUIT SLEEVES & ELECTRICAL BY OTHERS. REFERENCE TELECOM & ELECTRICAL DRAWINGS FOR DETAILED INFORMATION.

GENERAL NOTES

1. REFER TO TELECOMMUNICATIONS DRAWINGS FOR PRIMARY CABLE PATHWAYS AND CABLE MANAGEMENT INFORMATION.
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KEY NOTES

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St. Louis ■ San Francisco ■ Shanghai ■ Toronto
Vancouver ■ Victoria ■ Washington DC

Drawing Title
AV SYSTEMS AV RACK ROOM 164
ENLARGED PLANS

Approved: Project Director
Approver

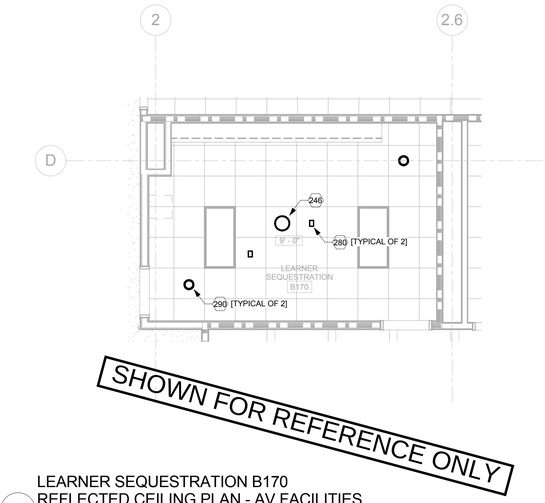
Project Title
VA SIMULATION CENTER

Location
Veterans Affairs Palo Alto Heath Care System
3801 Miranda Ave,Palo Alto, CA 94304

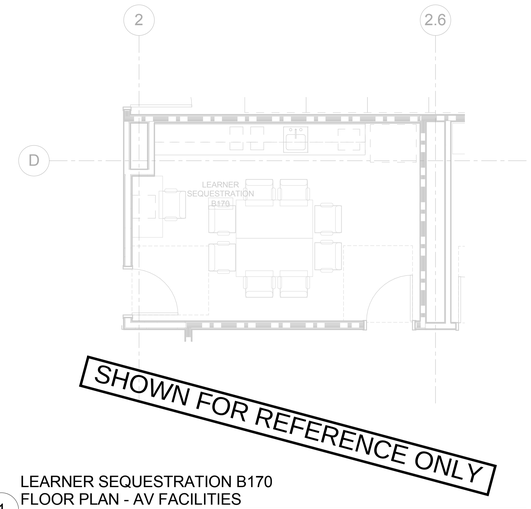
Date JUNE 14, 2013 | Checked SS | Drawn RM

VA Project Number: 640-385
Building Number: 105
Drawing No. AV0308

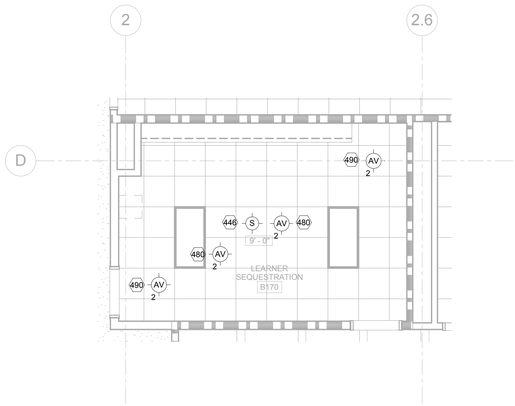
VA PAHCS Veterans Affairs Palo Alto Health Care System
Department of Veterans Affairs



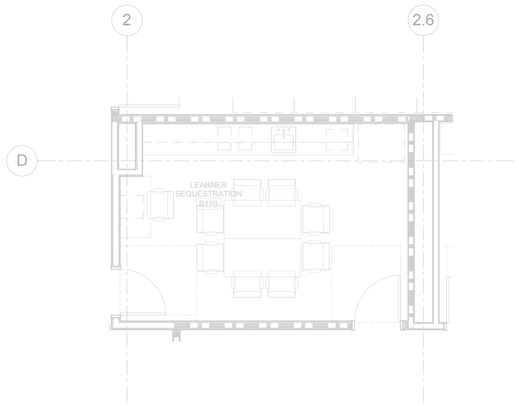
2 LEARNER SEQUESTRATION B170
REFLECTED CEILING PLAN - AV FACILITIES
1/4" = 1'-0"



1 LEARNER SEQUESTRATION B170
FLOOR PLAN - AV FACILITIES
1/4" = 1'-0"



4 LEARNER SEQUESTRATION B170
REFLECTED CEILING PLAN - AV ELECTRICAL
1/4" = 1'-0"



3 LEARNER SEQUESTRATION B170
FLOOR PLAN - AV ELECTRICAL
1/4" = 1'-0"

AV RCP FACILITIES NOTES:

246 CEILING-RECESSED LOUDSPEAKER - OFOI

280 CEILING MICROPHONE (BOUNDARY LAYER) - OFOI

290 CEILING CAMERA - OFOI

AV RCP ELECTRICAL NOTES:

446 CEILING-RECESSED LOUDSPEAKER
- (1) 3/4 EMT

480 CEILING MICROPHONE
- (1) 3/4" EMT

490 CEILING CAMERA
- (1) 1" EMT

GENERAL NOTES

1. REFER TO TELECOMMUNICATIONS DRAWINGS FOR PRIMARY CABLE PATHWAYS AND CABLE MANAGEMENT INFORMATION.
2. STUB ALL AV CONDUIT ABOVE FINISHED CEILING IN AN ACCESSIBLE LOCATION U.O.N. IF AN ACCESSIBLE LOCATION CAN NOT BE PROVIDED STUB CONDUIT TO NEAREST CABLE TRAY.
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KEY NOTES

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PROJECT NORTH
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Revisions	Date
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Vancouver ■ Victoria ■ Washington DC

Drawing Title
AV SYSTEMS LEARNER SEQUESTRATION B170 ENLARGED PLANS

Approved: Project Director
Approver

Project Title
VA SIMULATION CENTER

Location
Veterans Affairs Palo Alto Heath Care System
3801 Miranda Ave,Palo Alto, CA 94304

Date
JUNE 14, 2013

Checked
SS

Drawn
RM

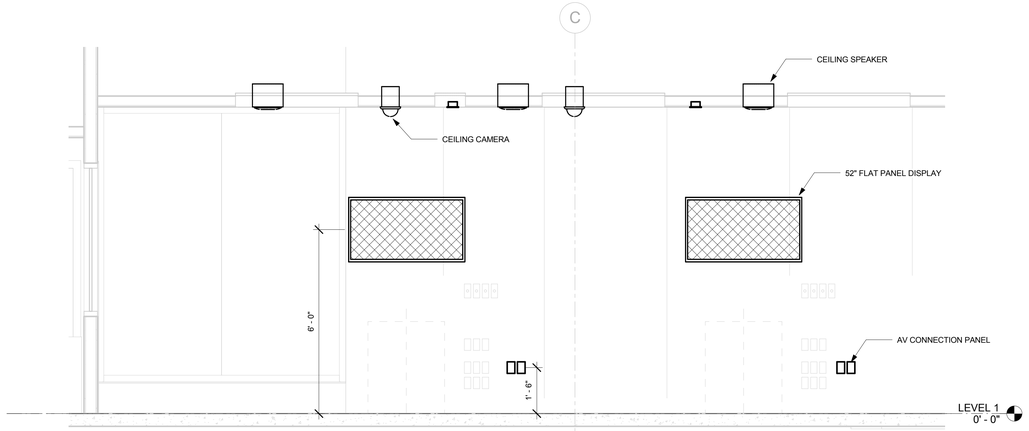
VA Project Number:
640-385

Building Number:
105

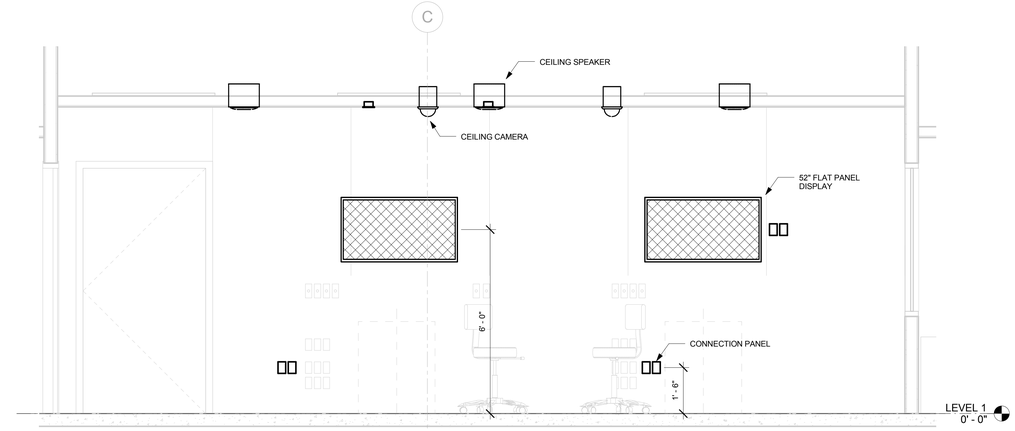
Drawing No.
AV0309

VA PAHCS
Veterans Affairs
Palo Alto Health Care System

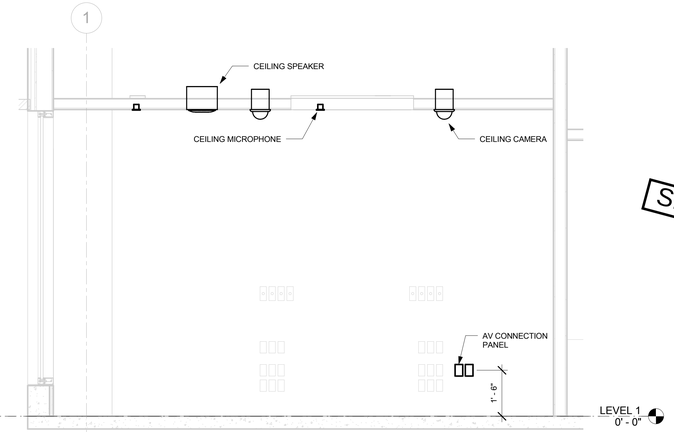
Department of Veterans Affairs



2 LARGE SIMULATION ROOM 152
FRONT WALL ELEVATION
1/2" = 1'-0"

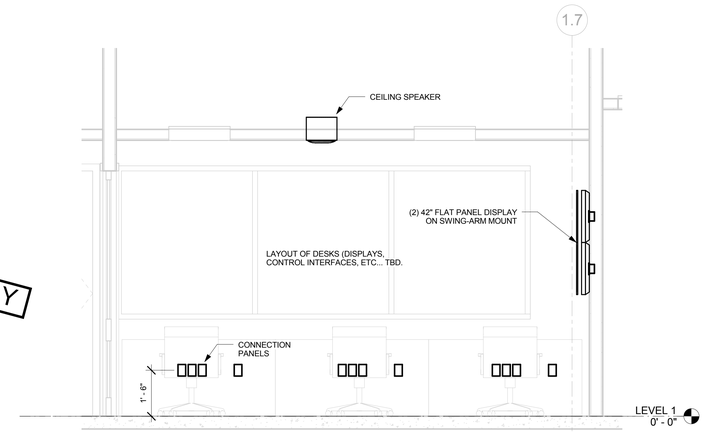


1 LARGE SIMULATION ROOM 152
FRONT WALL ELEVATION
1/2" = 1'-0"

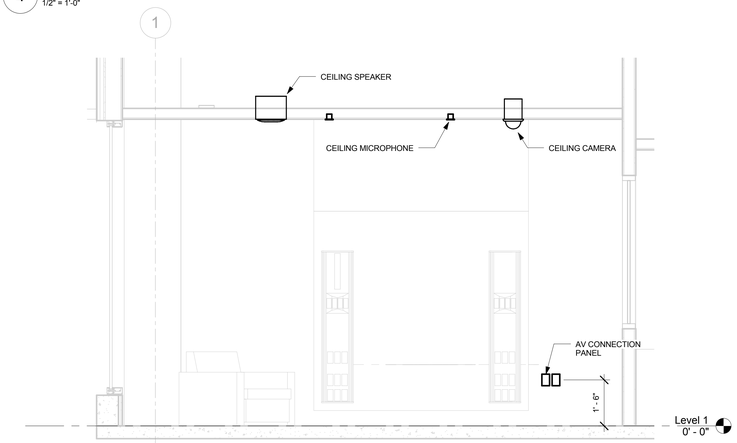


4 PATIENT ROOM 156
FRONT WALL ELEVATION
1/2" = 1'-0"

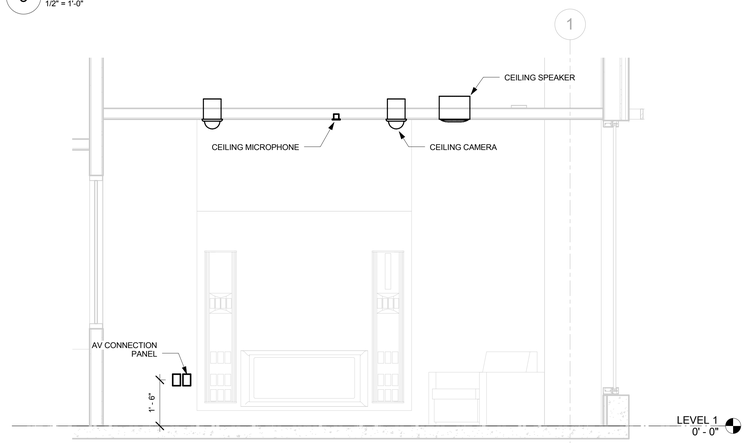
SHOWN FOR REFERENCE ONLY



3 CONTROL ROOM 155
FRONT WALL ELEVATION
1/2" = 1'-0"



6 PATIENT ROOM 159
FRONT WALL ELEVATION
1/2" = 1'-0"



5 PATIENT ROOM 157
FRONT WALL ELEVATION
1/2" = 1'-0"

GENERAL NOTES

KEY NOTES

LEGEND

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9	
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St. Louis ■ San Francisco ■ Shanghai ■ Toronto
Vancouver ■ Victoria ■ Washington DC

Drawing Title
AV SYSTEMS ELEVATIONS

Approved: Project Director
Approver

Project Title
VA SIMULATION CENTER

Location
Veterans Affairs Palo Alto Heath Care System
3801 Miranda Ave,Palo Alto, CA 94304

Date
JUNE 14, 2013

Checked
SS

Drawn
RM

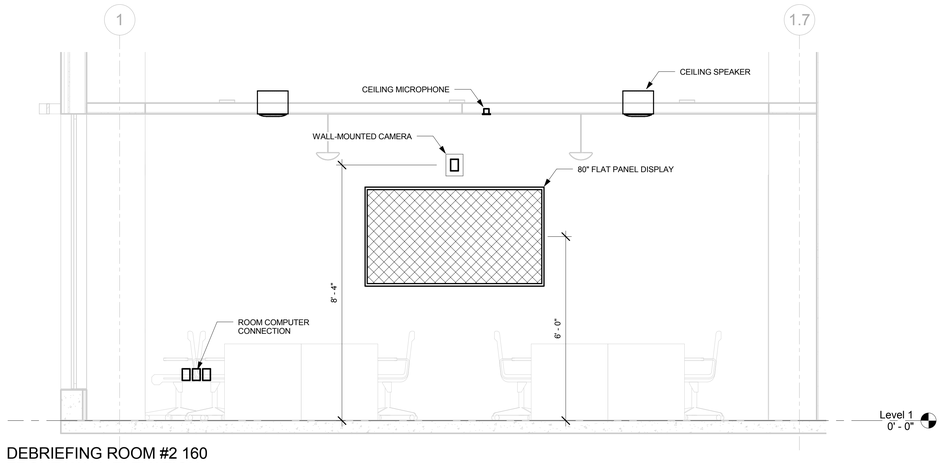
VA Project Number:
640-385

Building Number:
105

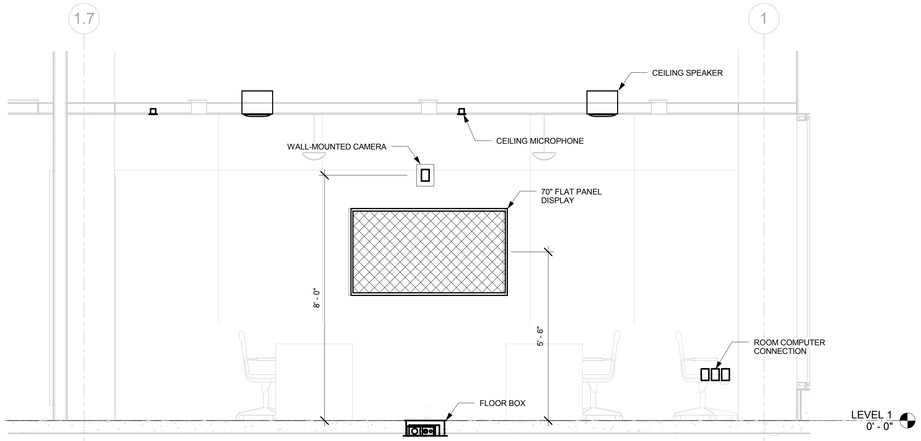
Drawing No.
AV0400

VA PAHCS
Veterans Affairs
Palo Alto Health Care System

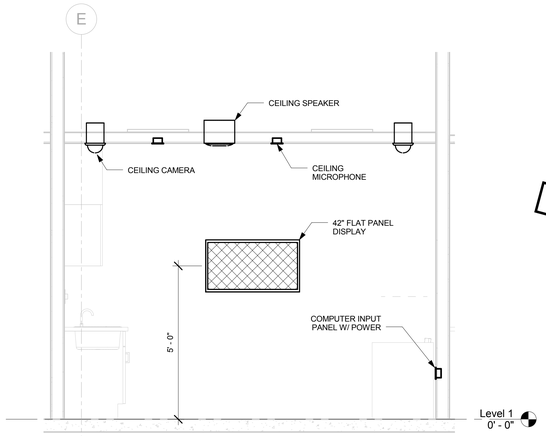
Department of Veterans Affairs



2 DEBRIEFING ROOM #2 160
FRONT WALL ELEVATION
1/2" = 1'-0"

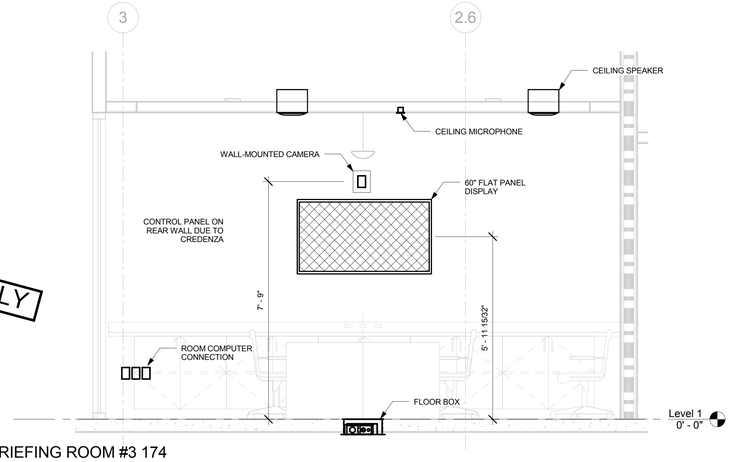


1 DEBRIEFING ROOM #1 151
FRONT WALL ELEVATION
1/2" = 1'-0"



4 CLINIC ROOM 173
FRONT WALL ELEVATION
1/2" = 1'-0"

SHOWN FOR REFERENCE ONLY



3 DEBRIEFING ROOM #3 174
FRONT WALL ELEVATION
1/2" = 1'-0"

GENERAL NOTES

KEY NOTES

LEGEND

ISSUE FOR BID

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St. Louis ■ San Francisco ■ Shanghai ■ Toronto
Vancouver ■ Victoria ■ Washington DC

Drawing Title
AV SYSTEMS ELEVATIONS

Approved: Project Director
Approver

Project Title
VA SIMULATION CENTER

Location
Veterans Affairs Palo Alto Heath Care System
3801 Miranda Ave,Palo Alto, CA 94304

Date
JUNE 14, 2013

Checked
SS

Drawn
RM

VA Project Number:
640-385

Building Number:
105

Drawing No.
AV0401

VA PAHCS
Veterans Affairs
Palo Alto Health Care System

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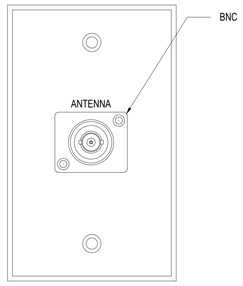

3 CPT–3
CUSTOM PLATE DETAIL
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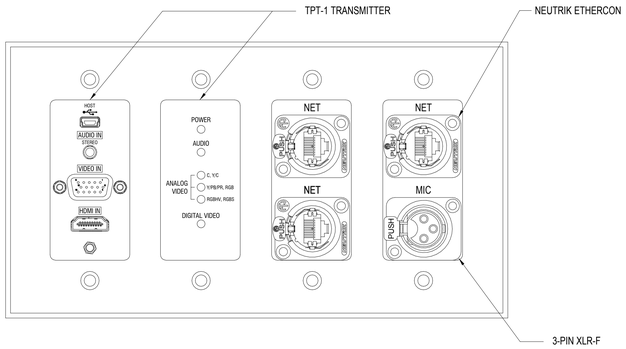

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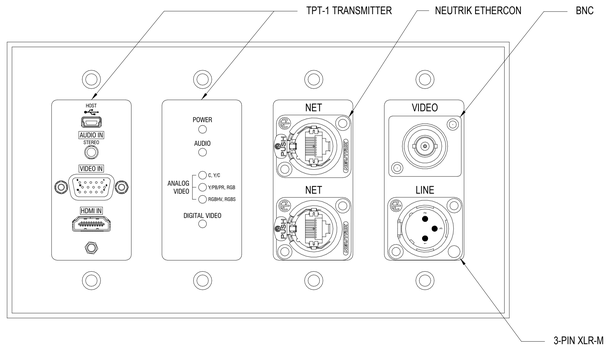

1 CPT–1
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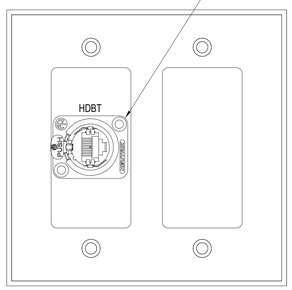
SCALE: 1"=1"



6 CPT–6
CUSTOM PLATE DETAIL
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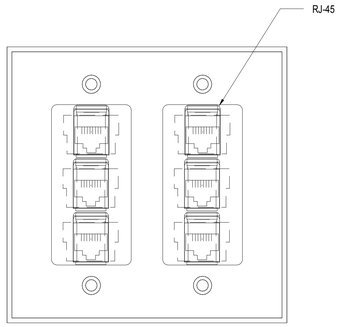
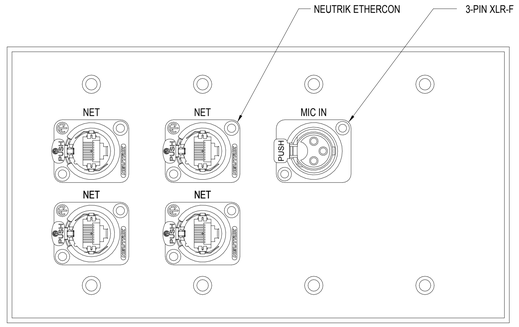
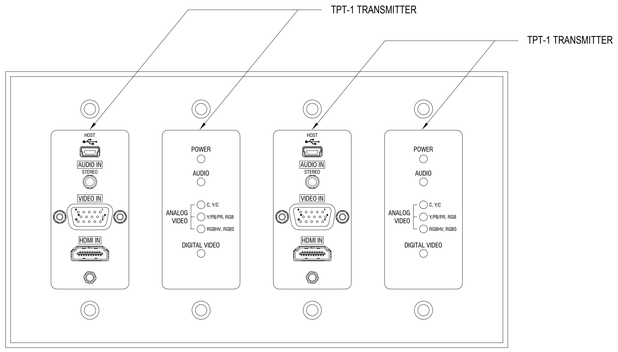


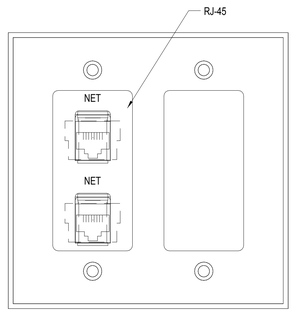
5 CPT–5
CUSTOM PLATE DETAIL
SCALE: 1"=1"



4 CPT–4
CUSTOM PLATE DETAIL – OFOI
SCALE: 1"=1"



8 CPT–8
CUSTOM PLATE DETAIL
SCALE: 1"=1"



7 CPT–7
CUSTOM PLATE DETAIL
SCALE: 1"=1"

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KEY NOTES

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Drawing Title: AV SYSTEMS DETAILS

Approved: Project Director
Approver

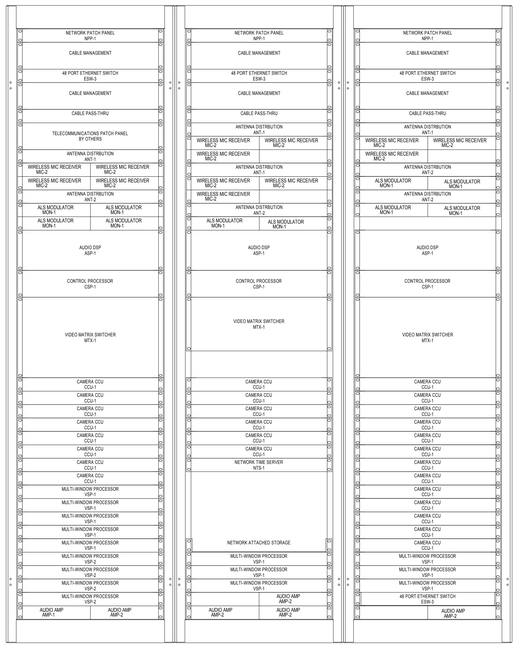
Project Title: VA SIMULATION CENTER

Location: Veterans Affairs Palo Alto Heath Care System, 3801 Miranda Ave,Palo Alto, CA 94304

Date: JUNE 14, 2013 | Checked: SS | Drawn: RM

VA Project Number: 640-385
Building Number: 105
Drawing No. AV0500

VA PAHCS Veterans Affairs Palo Alto Health Care System
Department of Veterans Affairs



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

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Drawing Title
AV SYSTEMS DETAILS

Approved: Project Director
Approver

Project Title
VA SIMULATION CENTER

Location Veterans Affairs Palo Alto Heath Care System
3801 Miranda Ave,Palo Alto, CA 94304

Date JUNE 14, 2013 | Checked SS | Drawn RM

VA Project Number: 640-385
Building Number: 105
Drawing No. AV0501

VA PAHCS Veterans Affairs Palo Alto Health Care System
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Drawing Title: AV SYSTEMS LARGE SIMULATION ROOM VIDEO FUNCTIONAL DIAGRAM

Approved: Project Director
Approver

Project Title: VA SIMULATION CENTER

Location: Veterans Affairs Palo Alto Heath Care System, 3801 Miranda Ave,Palo Alto, CA 94304

Date: JUNE 14, 2013 | Checked: SS | Drawn: RM

VA Project Number: 640-385
Building Number: 105
Drawing No. AV0600

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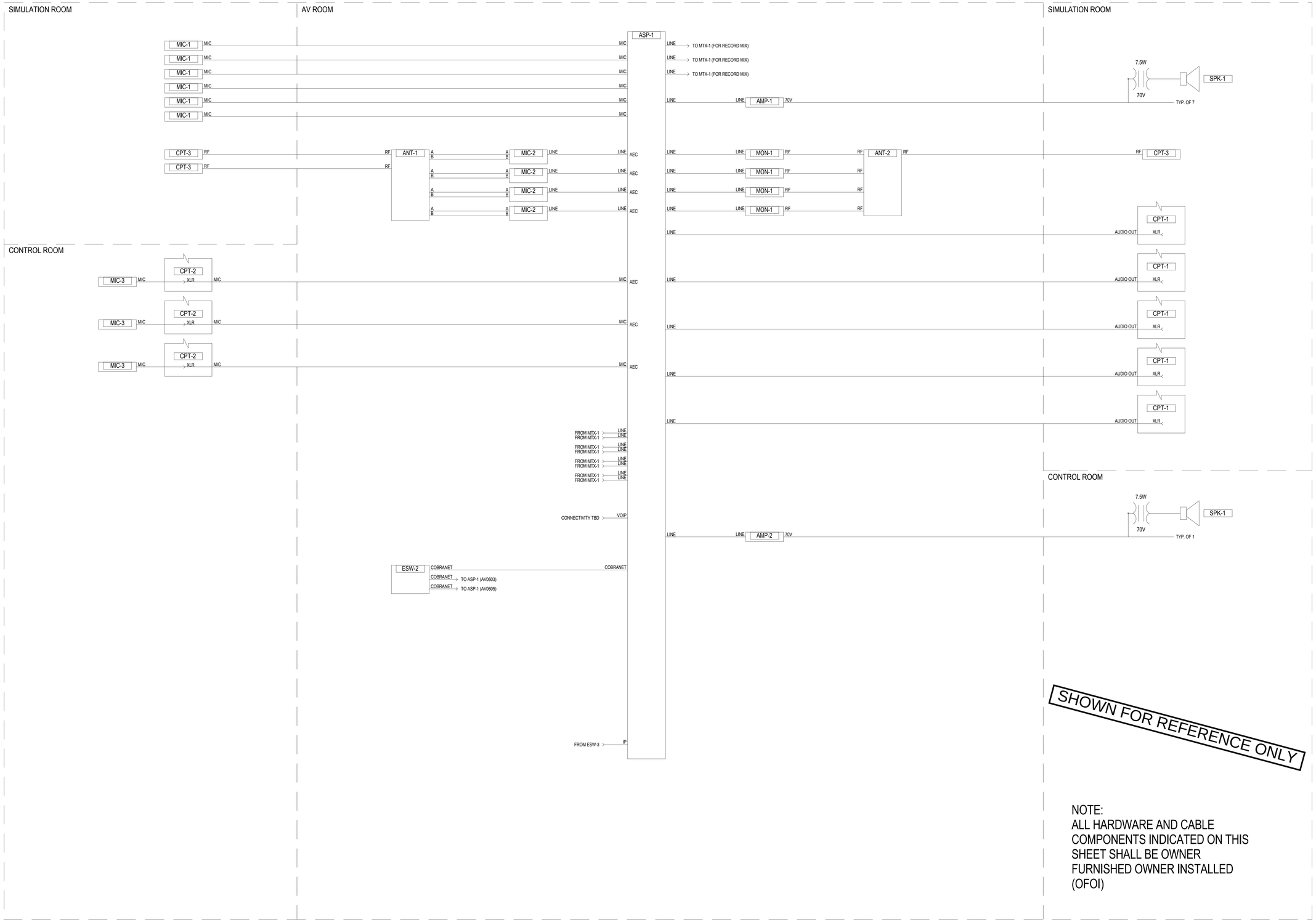
Department of Veterans Affairs



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Drawing Title
AV SYSTEMS LARGE SIMULATION ROOM AUDIO FUNCTIONAL DIAGRAM

Approved: Project Director
Approver

Project Title
VA SIMULATION CENTER

Location
Veterans Affairs Palo Alto Heath Care System
3801 Miranda Ave,Palo Alto, CA 94304

Date
JUNE 14, 2013

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VA Project Number:
640-385

Building Number:
105

Drawing No.
AV0601

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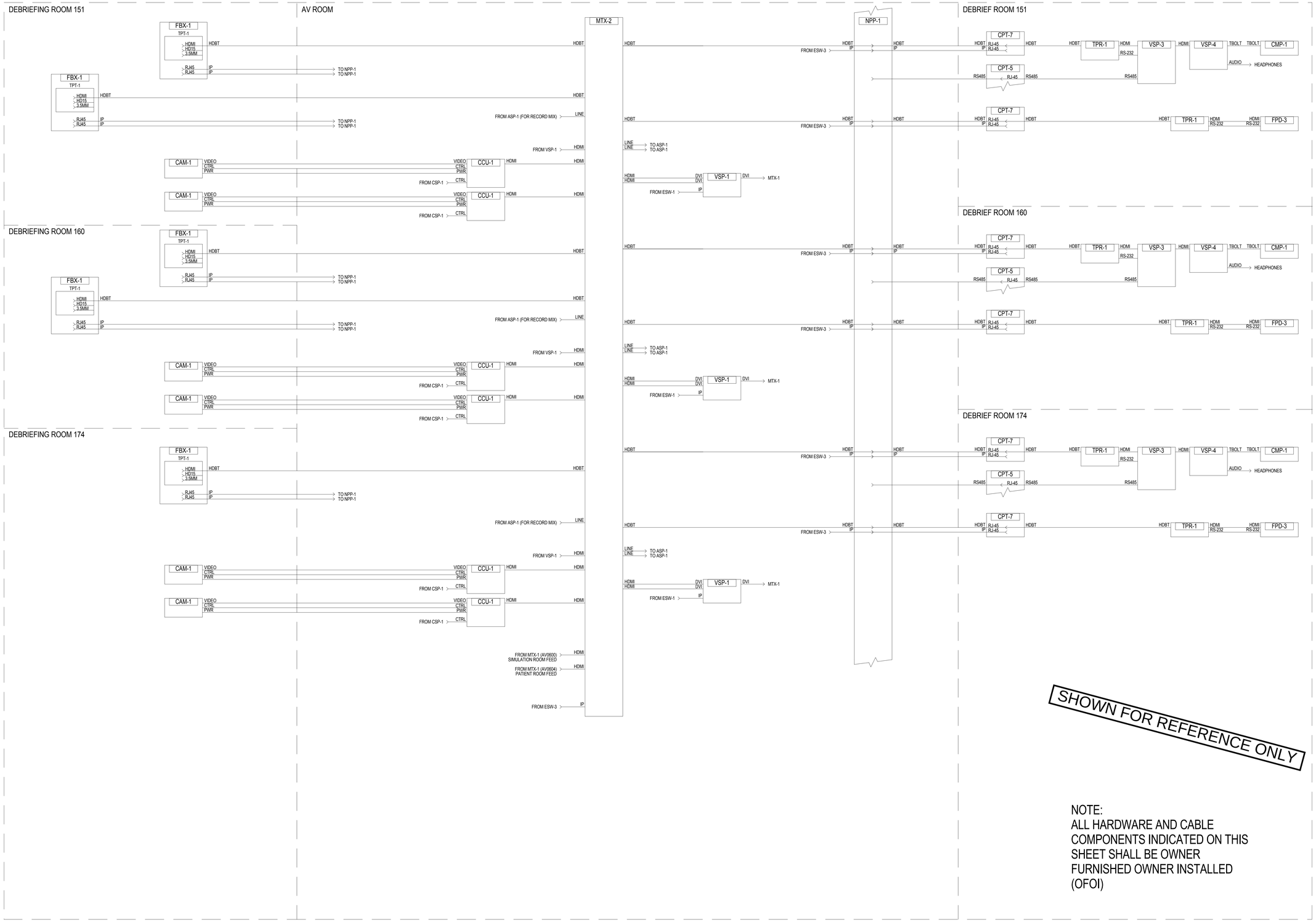

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Drawing Title
AV SYSTEMS DEBRIEFING ROOMS VIDEO FUNCTIONAL DIAGRAM

Approved: Project Director
Approver

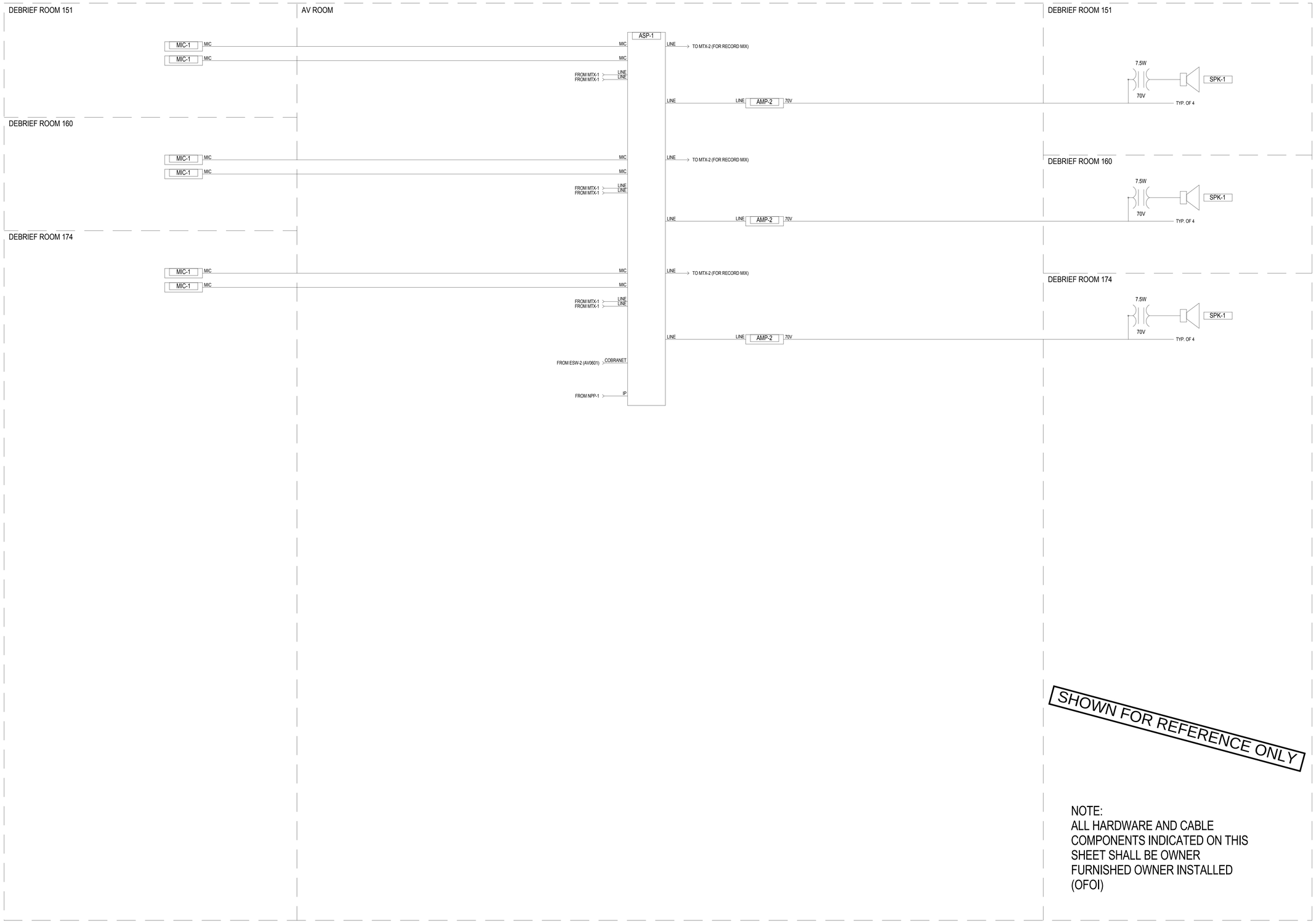
Project Title
VA SIMULATION CENTER

Location
Veterans Affairs Palo Alto Heath Care System
3801 Miranda Ave,Palo Alto, CA 94304

Date: JUNE 14, 2013
Checked: SS
Drawn: RM

VA Project Number: 640-385
Building Number: 105
Drawing No. AV0602

VA PAHCS Veterans Affairs Palo Alto Health Care System
Department of Veterans Affairs



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Drawing Title
AV SYSTEMS DEBRIEFING ROOMS
AUDIO FUNCTIONAL DIAGRAM

Approved: Project Director
Approver

Project Title
VA SIMULATION CENTER

Location
Veterans Affairs Palo Alto Heath Care System
3801 Miranda Ave,Palo Alto, CA 94304

Date: JUNE 14, 2013
Checked: SS
Drawn: RM

VA Project Number: 640-385
Building Number: 105
Drawing No. AV0603

VA PAHCS
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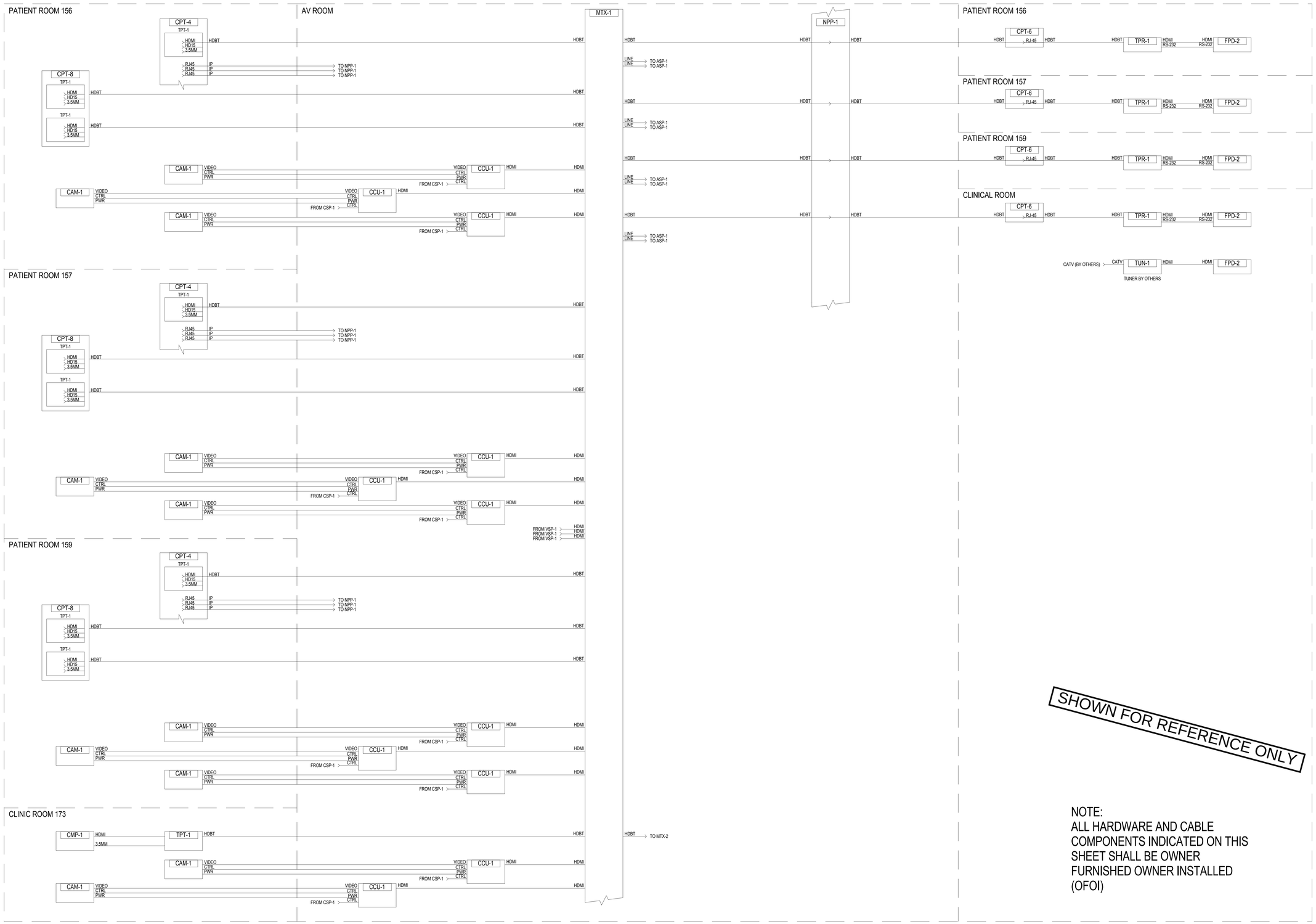
Department of Veterans Affairs



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Drawing Title
AV SYSTEMS PATIENT ROOMS & CLINICAL ROOM VIDEO FUNCTIONAL DIAGRAM

Approved: Project Director
Approver

Project Title
VA SIMULATION CENTER

Location
Veterans Affairs Palo Alto Heath Care System
3801 Miranda Ave,Palo Alto, CA 94304

Date: JUNE 14, 2013
Checked: SS
Drawn: RM

VA Project Number: 640-385
Building Number: 105
Drawing No. AV0604

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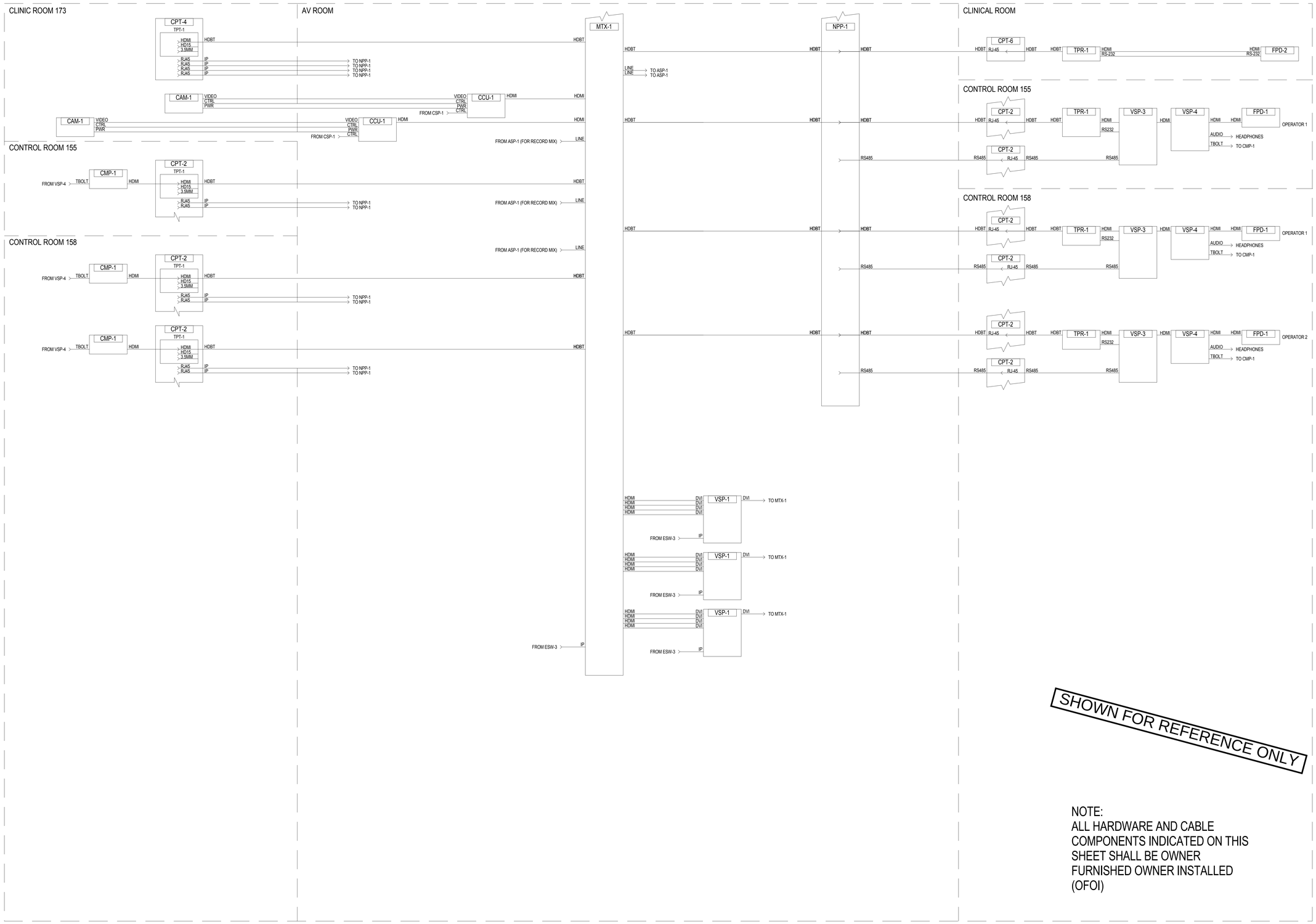
Veterans Affairs Palo Alto Health Care System
Department of Veterans Affairs



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Drawing Title: AV SYSTEMS PATIENT ROOMS & CLINICAL ROOM VIDEO FUNCTIONAL DIAGRAM

Approved: Project Director
Approver

Project Title: VA SIMULATION CENTER

Location: Veterans Affairs Palo Alto Heath Care System, 3801 Miranda Ave,Palo Alto, CA 94304

Date: JUNE 14, 2013 | Checked: SS | Drawn: RM

VA Project Number: 640-385
Building Number: 105
Drawing No. AV0605

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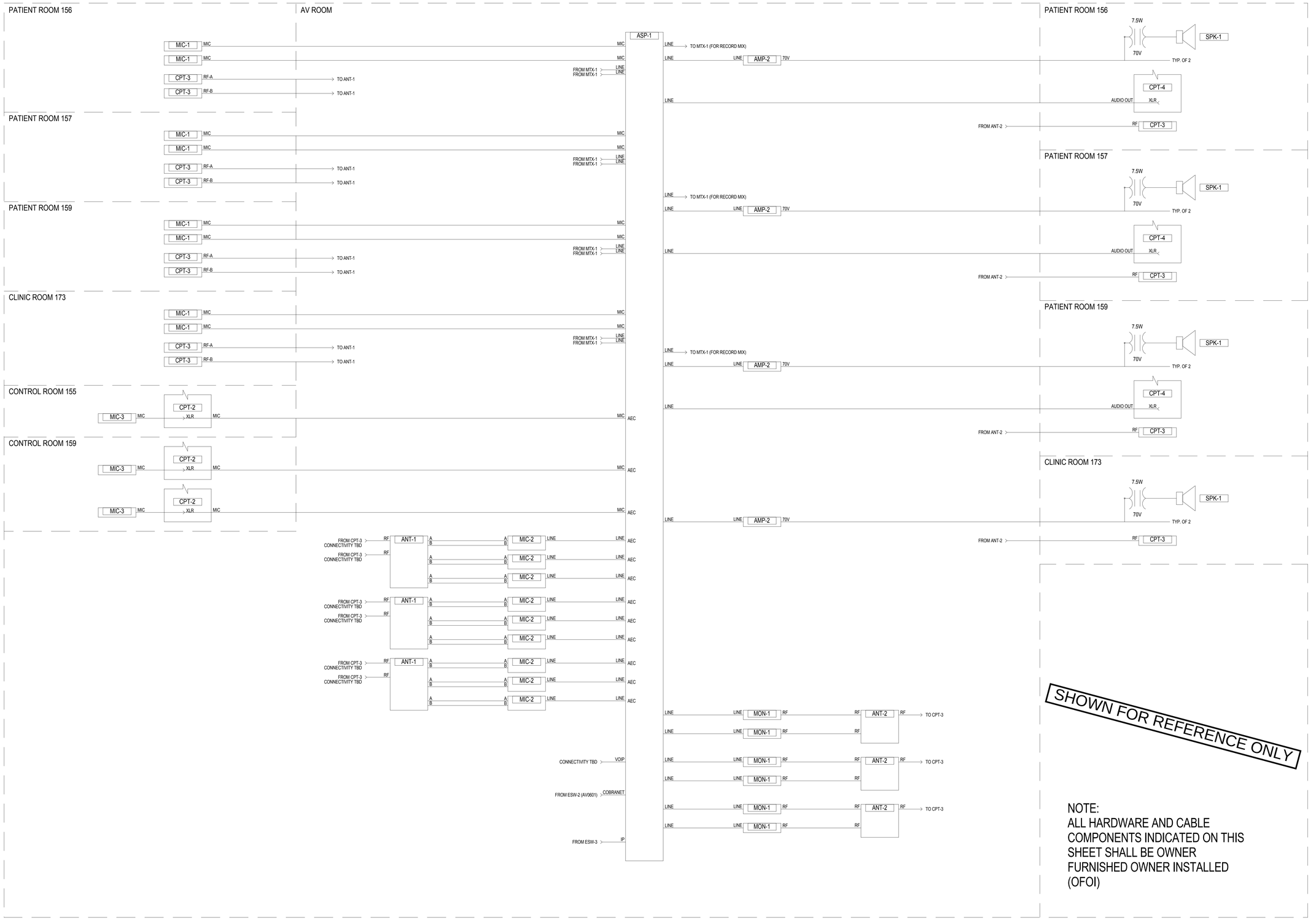

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Drawing Title
AV SYSTEMS PATIENT ROOMS
AUDIO FUNCTIONAL DIAGRAM

Approved: Project Director
Approver

Project Title
VA SIMULATION CENTER

Location
Veterans Affairs Palo Alto Heath Care System
3801 Miranda Ave,Palo Alto, CA 94304

Date
JUNE 14, 2013

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VA Project Number:
640-385

Building Number:
105

Drawing No.
AV0606

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Department of Veterans Affairs

CONTROL ROOM 155

- CPL-1 IP/POE → TO NPP-1
- CPL-3 IP/POE → TO NPP-1
- CPL-1 IP/POE → TO NPP-1
- CPL-3 IP/POE → TO NPP-1
- CPL-1 IP/POE → TO NPP-1
- CPL-3 IP/POE → TO NPP-1
- CPL-1 IP/POE → TO NPP-1
- CPL-3 IP/POE → TO NPP-1
- CPL-5: RJ45 IP → TO NPP-1; RJ45 IP → TO NPP-1; RJ45 IP → TO NPP-1; RJ45 IP → TO NPP-1; RJ45 IP → TO NPP-1
- CPL-5: RJ45 IP → TO NPP-1; RJ45 IP → TO NPP-1; RJ45 IP → TO NPP-1; RJ45 IP → TO NPP-1; RJ45 IP → TO NPP-1
- CPL-5: RJ45 IP → TO NPP-1; RJ45 IP → TO NPP-1; RJ45 IP → TO NPP-1; RJ45 IP → TO NPP-1; RJ45 IP → TO NPP-1
- CPL-5: RJ45 IP → TO NPP-1; RJ45 IP → TO NPP-1; RJ45 IP → TO NPP-1; RJ45 IP → TO NPP-1; RJ45 IP → TO NPP-1

CONTROL ROOM 158

- CPL-1 IP/POE → TO NPP-1
- CPL-3 IP/POE → TO NPP-1
- CPL-1 IP/POE → TO NPP-1
- CPL-3 IP/POE → TO NPP-1
- CPL-5: RJ45 IP → TO NPP-1; RJ45 IP → TO NPP-1; RJ45 IP → TO NPP-1; RJ45 IP → TO NPP-1; RJ45 IP → TO NPP-1
- CPL-5: RJ45 IP → TO NPP-1; RJ45 IP → TO NPP-1; RJ45 IP → TO NPP-1; RJ45 IP → TO NPP-1; RJ45 IP → TO NPP-1

DEBRIEFING ROOM 151

- CPL-2 IP/POE → TO NPP-1
- WAP-1 → TO NPP-1

DEBRIEFING ROOM 160

- CPL-2 IP/POE → TO NPP-1
- WAP-1 → TO NPP-1

DEBRIEFING ROOM 174

- CPL-2 IP/POE → TO NPP-1
- WAP-1 → TO NPP-1

LARGE SIMULATION ROOM

- WAP-1 → TO NPP-1

PATIENT ROOM 156

- CPL-5: RJ45 IP → TO NPP-1; RJ45 IP → TO NPP-1; RJ45 IP → TO NPP-1; RJ45 IP → TO NPP-1; RJ45 IP → TO NPP-1

PATIENT ROOM 157

- WAP-1 → TO NPP-1
- CPL-5: RJ45 IP → TO NPP-1; RJ45 IP → TO NPP-1; RJ45 IP → TO NPP-1; RJ45 IP → TO NPP-1; RJ45 IP → TO NPP-1

PATIENT ROOM 159

- CPL-5: RJ45 IP → TO NPP-1; RJ45 IP → TO NPP-1; RJ45 IP → TO NPP-1; RJ45 IP → TO NPP-1; RJ45 IP → TO NPP-1

LEARNING SEQUESTRATION

- WAP-1 → TO NPP-1

ROOF

- GPS-1 RF → TO NTS-1

AV ROOM

FIELD CABLE OR PATCH PANEL (AS NEEDED) → NPP-1 → PATCH CABLE TO EQUIPMENT OR PATCH PANEL (AS NEEDED)

(AS NEEDED)

ESW-3	
UPLINK	
1	ETHERNET SWITCH 1
2	-
ETHERNET	
1	VIDEO MATRIX SWITCHER
2	VIDEO MATRIX SWITCHER
3	VIDEO MATRIX SWITCHER
4	AUDIO DSP
5	AUDIO DSP
6	AUDIO DSP
7	CONTROL PROCESSOR
8	CONTROL PROCESSOR
9	CONTROL PROCESSOR
10	SERIAL TERMINAL SERVER
11	SERIAL TERMINAL SERVER
12	SERIAL TERMINAL SERVER
13	CONTROL PANEL
14	CONTROL PANEL
15	CONTROL PANEL
16	CONTROL PANEL
17	CONTROL PANEL
18	CONTROL PANEL
19	CONTROL PANEL
20	CONTROL PANEL
21	CONTROL PANEL
22	CONTROL PANEL
23	CONTROL PANEL
24	CONTROL PANEL
25	CONTROL PANEL
26	CONTROL PANEL
27	CONTROL PANEL
28	MUTLI-WINDOW PROCESSOR
29	MUTLI-WINDOW PROCESSOR
30	MUTLI-WINDOW PROCESSOR
31	MUTLI-WINDOW PROCESSOR
32	MUTLI-WINDOW PROCESSOR
33	MUTLI-WINDOW PROCESSOR
34	MUTLI-WINDOW PROCESSOR
35	MUTLI-WINDOW PROCESSOR
36	MUTLI-WINDOW PROCESSOR
37	MUTLI-WINDOW PROCESSOR
38	MUTLI-WINDOW PROCESSOR
39	MUTLI-WINDOW PROCESSOR
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43	
44	
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46	
47	
48	

ESW-3	
UPLINK	
1	ETHERNET SWITCH 1
2	-
ETHERNET	
1	CONNECTION PLATE
2	CONNECTION PLATE
3	CONNECTION PLATE
4	CONNECTION PLATE
5	CONNECTION PLATE
6	CONNECTION PLATE
7	CONNECTION PLATE
8	CONNECTION PLATE
9	CONNECTION PLATE
10	CONNECTION PLATE
11	CONNECTION PLATE
12	CONNECTION PLATE
13	CONNECTION PLATE
14	CONNECTION PLATE
15	CONNECTION PLATE
16	CONNECTION PLATE
17	CONNECTION PLATE
18	CONNECTION PLATE
19	CONNECTION PLATE
20	CONNECTION PLATE
21	CONNECTION PLATE
22	CONNECTION PLATE
23	CONNECTION PLATE
24	CONNECTION PLATE
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26	CONNECTION PLATE
27	CONNECTION PLATE
28	CONNECTION PLATE
29	CONNECTION PLATE
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31	CONNECTION PLATE
32	CONNECTION PLATE
33	CONNECTION PLATE
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37	CONNECTION PLATE
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39	CONNECTION PLATE
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ESW-3	
UPLINK	
1	ETHERNET SWITCH 1
2	-
ETHERNET	
1	CONNECTION PLATE
2	CONNECTION PLATE
3	CONNECTION PLATE
4	CONNECTION PLATE
5	CONNECTION PLATE
6	CONNECTION PLATE
7	CONNECTION PLATE
8	CONNECTION PLATE
9	CONNECTION PLATE
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27	CONNECTION PLATE
28	CONNECTION PLATE
29	CONNECTION PLATE
30	CONNECTION PLATE
31	CONNECTION PLATE
32	WIRELESS ACCESS POINT
33	WIRELESS ACCESS POINT
34	WIRELESS ACCESS POINT
35	WIRELESS ACCESS POINT
36	WIRELESS ACCESS POINT
37	WIRELESS ACCESS POINT
38	WIRELESS ACCESS POINT CONTROL
39	NETWORK TIME SERVER
40	POWER DISTRIBUTION UNIT
41	POWER DISTRIBUTION UNIT
42	POWER DISTRIBUTION UNIT
43	
44	
45	
46	
47	
48	

WAC	
UPLINK	
1	ETHERNET SWITCH
2	-

FROM GPS-1 → RF → NTS-1 → RS-485 → CSP-2

NTS-1 → IP → TO ESW-3

CSP-2:
- RS-485 → TO NPP-1
- RS-485 → TO NPP-1
- RS-485 → TO NPP-1
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LARGE SIMULATION ROOM PROCESSING

CSP-1		
ETHERNET		
1	AV NETWORK	→ TO NPP-1
RS-232 SERIAL		
1	VIDEO CAMERA	→ TO CCU-1
2	VIDEO CAMERA	→ TO CCU-1
3	VIDEO CAMERA	→ TO CCU-1
4	VIDEO CAMERA	→ TO CCU-1
5	VIDEO CAMERA	→ TO CCU-1
6	VIDEO CAMERA	→ TO CCU-1

DEBRIEFING ROOMS PROCESSING

CSP-1		
ETHERNET		
1	AV NETWORK	→ TO NPP-1
RS-232 SERIAL		
1	VIDEO CAMERA	→ TO CCU-1
2	VIDEO CAMERA	→ TO CCU-1
3	VIDEO CAMERA	→ TO CCU-1
4	VIDEO CAMERA	→ TO CCU-1
5	VIDEO CAMERA	→ TO CCU-1
6	VIDEO CAMERA	→ TO CCU-1

PATIENT / CLINIC ROOMS PROCESSING

CSP-1		
ETHERNET		
1	AV NETWORK	→ TO NPP-1
RS-232 SERIAL		
1	VIDEO CAMERA	→ TO CCU-1
2	VIDEO CAMERA	→ TO CCU-1
3	VIDEO CAMERA	→ TO CCU-1
4	VIDEO CAMERA	→ TO CCU-1
5	VIDEO CAMERA	→ TO CCU-1
6	VIDEO CAMERA	→ TO CCU-1

CSP-1		
ETHERNET		
1	AV NETWORK	→ TO NPP-1
RS-232 SERIAL		
1	VIDEO CAMERA	→ TO CCU-1
2	VIDEO CAMERA	→ TO CCU-1
3	VIDEO CAMERA	→ TO CCU-1
4	VIDEO CAMERA	→ TO CCU-1
5	VIDEO CAMERA	→ TO CCU-1
6	-	

SHOWN FOR REFERENCE ONLY

NOTE:
ALL HARDWARE AND CABLE COMPONENTS INDICATED ON THIS SHEET SHALL BE OWNER FURNISHED OWNER INSTALLED (OFOI)

GENERAL NOTES

KEY NOTES

LEGEND

ISSUE FOR BID

Revisions	Date
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Drawing Title: AV SYSTEMS NETWORK & CONTROL FUNCTIONAL DIAGRAM

Approved: Project Director
Approver

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Location: Veterans Affairs Palo Alto Heath Care System, 3801 Miranda Ave,Palo Alto, CA 94304

Date: JUNE 14, 2013 | Checked: SS | Drawn: RM

VA Project Number: 640-385
Building Number: 105
Drawing No. AV0607

VA PAHCS Veterans Affairs Palo Alto Health Care System
Department of Veterans Affairs

GENERAL NOTES

1. TELECOMMUNICATIONS ROOM DIMENSIONS ON THE DRAWINGS HAVE BEEN TAKEN FROM PRELIMINARY ARCHITECTURAL DRAWINGS. THE SCALE OF THESE DRAWINGS ARE SUFFICIENTLY ACCURATE FOR DETERMINING THE LOCATION OF TELECOMMUNICATIONS INFRASTRUCTURE COMPONENTS, JUNCTION BOXES, OUTLET BOXES, WIREWAYS, PANELS, ETC. WHERE EXACT DIMENSIONS ARE INDICATED, THE REFERENCE SURFACE SHALL BE THE FINAL FINISHED SURFACE INCLUDING ANY ACOUSTICAL TREATMENT.

2. ALL DIMENSIONS MUST BE VERIFIED IN THE FIELD AND ANY DEVIATIONS CAUSING CHANGES EXCEEDING 1.5 INCHES TO THE INTENDED LOCATION OF MAJOR TELECOMMUNICATIONS INFRASTRUCTURE COMPONENTS MUST BE COORDINATED WITH THE ARCHITECT AND DESIGNER PRIOR TO INSTALLATION.

3. ANY DEVICE HEIGHT DIMENSIONS SHOWN ARE SUGGESTED PLACEMENTS AND ARE PROVIDED FOR INFORMATION AND COORDINATION ONLY. COORDINATE ALL DEVICES AND DIMENSIONED LOCATIONS WITH PROJECT DRAWINGS.

4. ALL TELECOMMUNICATIONS DEVICES SHALL BE SECURELY MOUNTED PLUMB AND STRAIGHT TO WALLS, FLOORS, OR RACKS, PER THE MANUFACTURER'S RECOMMENDED MOUNTING PRACTICE, UNLESS OTHERWISE INDICATED IN THE TELECOMMUNICATIONS DRAWINGS.

5. INSTALL FIRESTOP ASSEMBLIES TO ALL THROUGH-SLAB AND THROUGH-WALL PENETRATIONS FOR THE INSTALLATION OF TELECOMMUNICATIONS CABLING AS REQUIRED TO MAINTAIN FIRE RATING OF SLAB OR WALL. REVIEW DRAWINGS FOR PARTITION TYPE RATINGS. FIRE PROOFING SYSTEMS USED FOR ALL PENETRATIONS MUST BE APPROVED BY APPLICABLE AUTHORITIES HAVING JURISDICTION PRIOR TO INSTALLATION.

6. THE METHOD OF INSTALLATION FOR ALL TELECOMMUNICATIONS-RELATED BACK BOXES IN WALLS AND THE METHOD FOR PASSAGE OF CONDUIT AND WIREWAYS THROUGH ACOUSTICALLY SENSITIVE WALLS SHALL BE COORDINATED WITH THE ACOUSTICAL CONSULTANT OR OWNER PRIOR TO INSTALLATION.

7. REFER TO ELECTRICAL SPECIFICATION AND DRAWINGS FOR INSTALLATION INSTRUCTIONS RELATED TO FLOORBOXES, JUNCTION BOXES, GROUNDING CONDUCTORS, BUSBARS, CONDUITS, CABLE TRAYS IN CORRIDORS, METALLIC ENCLOSURES, ELECTRICAL PANELBOARDS, AND ELETRCIAL CIRCUITING INFORMATION; U.O.N.

8. ELECTRICAL FEEDS ARE NOT TO BE RUN PARALLEL WITH VIDEO, AUDIO, OR TELECOMMUNICATIONS CABLING SEGMENTS OR RACEWAYS. IF ELECTRICAL FEEDS MUST BE RUN PARALLEL, A MINIMUM OF 4"-0" OF SEPARATION MUST BE MAINTAINED.

9. POWER RECEPTACLES SHOWN ON TELECOMMUNICATIONS DRAWINGS ARE DEDICATED TO SPECIFIC TELECOMMUNICATIONS EQUIPMENT AND ARE SHOWN FOR REFERENCE ONLY. REFER TO ELECTRICAL DRAWINGS FOR ENGINEERED ELECTRICAL SYSTEM AND ADDITIONAL UTILITY POWER RECEPTACLES.

12. GROUND ALL TELECOMMUNICATIONS RELATED CONDUITS, CABLE TRAYS, AND JUNCTION BOXES IN ADDITION TO ANY APPLICABLE CODE REQUIREMENTS.

13. CONDUIT ROUTES ON THE TELECOM DRAWINGS SHOW ONLY INTERCONNECTION BETWEEN THE TERMINATION POINTS AND APPROXIMATE ROUTES. THE EXACT ROUTE OF CONDUIT PATHWAYS ARE TO BE DETERMINED AND VERIFIED BY CONTRACTOR AND FIELD CONDITIONS.

14. NOTIFY THE OWNER OF ANY DISCREPANCIES BETWEEN THE EXISTING CONDITIONS AND THE TECHNOLOGY DRAWINGS. OBTAIN CLARIFICATION BEFORE PROCEDING WITH WORK.

15. IT SHALL BE THE RESPONSIBILITY OF THE TELECOMMUNICATIONS CONTRACTOR TO VERIFY SIGNAL/CONDUIT PATHWAYS WITH THE ELECTRICAL ENGINEER'S DRAWINGS AND SITE CONDITIONS.

GENERAL NOTES CONDUIT PATHWAY AND ENCLOSURES

1. BACKBOX GENERAL REQUIREMENTS:

a. PROVIDE 5"H X 5"W X 2-7/8" D OUTLET BACKBOXES WITH INTEGRATED CABLE MANAGEMENT AT LOCATIONS INDICATING DOUBLE GANG BACKBOXES.
b. PROVIDE DOUBLE GANG 5" SQUARE PLASTER RING ON ALL DOUBLE GANG OUTLET BACKBOXES UNLESS INDICATED OTHERWISE. CONTRACTOR TO COORDINATE THE REQUIRED DEPTH OF THE PLASTER RING WITH THE WALL FINISHES.
c. INSTALL THE DOUBLE GANG BACKBOX AT PROJECT STANDARD HEIGHT UNLESS OTHERWISE SPECIFIED.
d. PROVIDE 4"H X 2-1/8"W X 2-1/2"D OUTLET BACKBOXES AT LOCATIONS INDICATING SINGLE GANG BACKBOXES.
e. PROVIDE SINGLE GANG PLASTER RING ON ALL SINGLE GANG OUTLET BACKBOXES UNLESS INDICATED OTHERWISE. CONTRACTOR TO COORDINATE THE REQUIRED DEPTH OF THE PLASTER RING WITH THE WALL FINISHES.
f. INSTALL THE DOUBLE GANG BACKBOX AT PROJECT STANDARD HEIGHT UNLESS OTHERWISE SPECIFIED.

2. CONDUIT GENERAL REQUIREMENTS:

a. PROVIDE A MINIMUM (1) 1-1/4" ELECTRICAL METALLIC TUBING (EMT) FROM THE BACKBOX LOCATIONS TO THE NEAREST CABLE TRAY, ACCESSIBLE CEILING OR NEAREST IDF. CONDUIT FINISH MUST BE ELECTROGALVANIZED.
b. ALL 1-1/4" FITTINGS AND COUPLERS SHALL BE SET SCREW TYPE OF ZINC-PLATED STEEL. DIE-CAST ZINC FITTINGS ARE NOT TO BE USED.
c. CONDUITS TO BE SIZED BASED UPON THE NUMBER OF CONDUCTORS AND THE SIZE OF CONDUCTORS TO BE INSTALLED.
d. CONDUITS MUST TAKE THE MOST DIRECT ROUTE TO IT'S DESTINATION WITH NO BEND GREATER THAN 90 DEGREES OR AN AGGREGATE OF BENDS IN EXCESS OF 180 DEGREES BETWEEN PULL POINTS OR PULL BOXES.
e. CONDUITS SHALL NOT BE INSTALL IN CONTINUOUS SECTIONS LONGER THAN 100 FT. IF RUNS TOTAL MORE THAN 100 FT. IN LENGTH, PULL POINTS OR PULL BOXES SHOULD BE INSERTED SO THAT NO SEGMENT BETWEEN POINTS/BOXES EXCEEDS THE 100 FT. LIMIT.
f. CONDUITS MUST BE BONDED TO GROUND ON AT LEAST ONE END IN ACCORDANCE WITH NATIONAL OR LOCAL REQUIREMENTS.
g. CONDUITS SHALL BE LABELED WITH A STAINLESS STEEL IDENTIFICATION TAG AT BOTH ENDS.
h. CONDUITS SHOULD NOT BE RUN THROUGH AREAS IN WHICH FLAMMABLE MATERIAL MAY BE STORED, OVER OR ADJACENT TO BOILERS, INCINERATORS, HOT-WATER LINES AND STEAM LINES.
i. THE MINIMUM SEPERATION BETWEEN POWER AND THE COMMUNICATIONS CONDUITS SHALL BE 12", WHERE THE CONDUITS CROSS THEY MUST CROSS AT 90-DEGREE ANGLES TO EACH OTHER.

3. CONDUIT BEND RADIUS GUIDELINES:

a. IF THE CONDUIT HAS AN INTERNAL DIAMETER OF 2 INCHES OR LESS THE BEND RADIUS MUST BE AT LEAST 6 TIMES THE INTERNAL CONDUIT DIAMETER.
b. IF THE CONDUIT HAS AN INTERNAL DIAMETER OF MORE THAN 2 INCHES THE BEND RADIUS MUST BE AT LEAST 10 TIMES THE INTERNAL CONDUIT DIAMETER.
c. CONDUIT BENDS SHOULD BE SMOOTH, EVEN, AND FREE OF KINKS OR OTHER DISCONTINUITIES THAT MAY HAVE DETRIMENTAL EFFECTS ON PULLING TENSION OR CABLE INTEGRITY DURING OR AFTER INSTALLATION.

4. DESIGNS WITH CONDUIT BENDS:

a. IF A CONDUIT RUN REQUIRES MORE THAN TWO 90 DEGREE BENDS THEN PROVIDE A PULL BOX BETWEEN SECTIONS WITH TWO BENDS OR LESS.
b. IF A CONDUIT RUN REQUIRES A REVERSE BEND (BETWEEN 100 DEGREES AND 180 DEGREES) THEN INSERT A PULL POINT OR PULL BOX AT EACH BEND HAVING AN ANGLE FROM 100 DEGREES TO 180 DEGREES.
c. IF A CONDUIT RUN REQUIRES A THIRD 90 DEGREE BEND (BETWEEN PULL POINTS OR PULL BOXES) THEN DERATE THE DESIGN CAPACITY BY 15% FOR THIS ADDITIONAL BEND.

5. CONDUIT TERMINATIONS:

a. REAM ALL CONDUIT ENDS AND FIT THEM WITH AN INSULATED BUSHING TO ELIMINATE SHARP EDGES THAT CAN DAMAGE CABLES DURING INSTALLATION OR SERVICE.
b. CONDUITS THAT ENTER A TELECOM ROOM SHOULD TERMINATE NEAR THE CORNERS TO ALLOW FOR PROPER CABLE RACKING.
c. TERMINATE CONDUITS THAT PROTRUDE THROUGH THE STRUCTURAL FLOOR 3 INCHES ABOVE THE SURFACE.
d. MAINTAIN THE INTEGRITY OF ALL FIRESTOP BARRIERS FOR ALL FLOOR OR WALL PENETRATIONS.

6. COMPLETING CONDUIT INSTALLATION:

a. CONDUITS SHOULD BE LEFT CLEAN, DRY, AND UNOBSTRUCTED.
b. CONDUITS SHOULD BE LEFT CAPPED FOR PROTECTION.
c. CONDUITS SHOULD BE LEFT LABELED FOR IDENTIFICATION.
d. CONDUITS SHOULD BE LEFT REAMED AND FITTED WITH BUSHINGS.
e. ALL CONDUITS SHOULD BE EQUIPPED WITH A PULL CORD THAT HAS A MINIMUM TEST RATING OF (200 LB).

7. PULL BOXES:

a. INSTALL PULL BOXES IN EASILY ACCESSIBLE LOCATIONS.
b. INSTALL HORIZONTAL CABLING BOXES IMMEDIATELY ABOVE SUSPENDED CEILINGS.
c. A PULL BOX SHOULD NOT BE USED IN LIEU OF A BEND.
d. CONDUITS THAT ENTER THE PULL BOX FROM OPPOSITE ENDS WITH EACH OTHER SHOULD BE ALIGNED.
e. FOR DIRECT ACCESS TO A BOX, PROVIDE A SUITABLE, MARKED, HINGED PANEL (OR EQUIVALENT) IN THE CEILING. THIS ACCESS PANEL CAN ALSO SERVE AS THE COVER FOR THE BOX.
f. THE INSTALLATION OF THE PULL BOXES MUST BE COORDINATED WITH THE WORK OF OTHER TRADES.
g. ALL PULL BOXES SHALL BE SEISMICALLY SUPPORTED FROM THE SLAB OR OTHER STRUCTURAL MEMBER PER THE NEC CODE AND AUTHORITTY HAVING JURISDICTION.

8. PULL BOX SIZING GUIDELINES:

CONDUIT	PULL BOX	PULL BOX	PULL BOX	PULL BOX WIDTH INCREASE
TRADE SIZE (in.)	WIDTH (in.)	LENGTH (in.)	DEPTH (in.)	FOR ADDITIONAL CONDUIT (in.)
1	4	16	3	2
1 1/4	6	20	3	3
1 1/2	8	27	4	4
2	8	36	4	5
2 1/2	10	42	5	6
3	12	48	5	6
3 1/2	12	54	6	6
4	15	60	8	8

DRAWING LIST

TC0000	TELECOM GENERAL NOTES AND DRAWING LIST
TC0001	TELECOM ABBREVIATIONS AND SYMBOLS
TC0201	TELECOM LEVEL 1 FLOOR PLAN
TC0202	TELECOM LEVEL 2 AND ROOF PLAN
TC0301	TELECOM LEVEL 1 REFLECTED CEILING PLAN
TC0400	EXISTING TELECOM IDF ROOM 120 ENLARGED PLANS AND ELEVATIONS
TC0401	TELECOM AV RACK ROOM 164 ENLARGED PLANS AND ELEVATIONS
TC0500	TELECOM DETAILS

GENERAL NOTES

KEY NOTES

LEGEND

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Revisions	Date
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Vancouver ■ Victoria ■ Washington DC

Drawing Title: TELECOM GENERAL NOTES AND DRAWING LIST

Approved: Project Director
Approver

Project Title: VA SIMULATION CENTER

Location: Veterans Affairs Palo Alto Heath Care System, 3801 Miranda Ave,Palo Alto, CA 94304

Date: JUNE 14, 2013 | Checked: DB | Drawn: RM

VA Project Number: 640-385

Building Number: 105

Drawing No. TC0000

VA PAHCS Veterans Affairs Palo Alto Health Care System

Department of Veterans Affairs

ABBREVIATIONS

AC	ACUSTIC/ACOUSTICAL
AFC	ABOVE FINISHED CEILING
AFF	ABOVE FINISHED FLOOR
AHJ	AUTHORITY HAVING JURISDICTION
APPROX	APPROXIMATE
ARCH	ARCHITECT/ARCHITECTURAL
AV	AUDIOVISUAL
BAS	BUILDING AUTOMATED SYSTEMS
BDF	BUILDING DISTRIBUTION FACILITY/FRAME
BLDG	BUILDING
CAT-3	CATEGORY-3 RATED CABLE
CAT-5E	CATEGORY-5E RATED CABLE
CAT-6	CATEGORY-6 RATED CABLE
CAT-6A	AUGMENTED CATEGORY-6 RATED CABLE
CATV	COMMUNITY ANTENNA TELEVISION
CCTV	CLOSED CIRCUIT TELEVISION
CLG	CEILING
CLR	CLEAR
CMP	COMMUNICATIONS PLENUM RATED
CMR	COMMUNICATIONS RISER RATED
CONN	CONNECTION
CONT	CONTINUOUS
CP	CONSOLIDATION POINT
DEPT	DEPARTMENT
DET	DETAIL
DIA	DIAMETER
DIM	DIMENSION
DWG	DRAWING
EA	EACH
ELEV	ELEVATION
EC	EMPTY CONDUIT
ENCL	ENCLOSURE
EQ	EQUAL
EQPT	EQUIPMENT
(E)	EXIST/EXISTING
FB	FLOOR BOX
FIN	FINISH
FP	FIBER PANEL
FT	FOOT/FEET
FTP	FOILED TWISTED PAIR
GC	GENERAL CONTRACTOR
GND	GROUND
HT	HEIGHT/HIGH
HOR	HORIZONTAL
ID	INSIDE DIAMETER
IDF	INTERMEDIATE DISTRIBUTION FACILITY/FRAME
INT	INTERIOR
ISP	INSIDE PLANT (CABLE)
LOMMF	LASER OPTIMIZED MULTIMODE FIBER
MAX	MAXIMUM
MDF	MAIN DISTRIBUTION FACILITY
MECH	MECHANICAL
MH	MANHOLE
MIN	MINIMUM
MMF	MULTI-MODE FIBER
MPOE	MINIMUM POINT OF ENTRY
MTD	MOUNTED
(N)	NEW
NIC	NOT IN CONTRACT
NTS	NOT TO SCALE
OC	ON CENTER
OD	OUTSIDE DIAMETER
OFCI	OWNER FURNISHED/CONTRACTOR INSTALLED
OFE	OWNER FURNISHED EQUIPMENT
OFOI	OWNER FURNISHED, OWNER INSTALLED
OSP	OUTSIDE PLANT CABLE
PB	PULLBOX
PBX	PRIVATE BRANCH EXCHANGE
PR	PAIR
QTY	QUANTITY
REC	RECESSED
REQ	REQUIREMENT
RM	ROOM
SCHED	SCHEDULE
SECT	SECTION
SQ	SQUARE
SMF	SINGLE-MODE FIBER (ZERO WATER PEAK)
STD	STANDARD
TEL	TELEPHONE
TEMP	TEMPORARY
TGB	TELECOMMUNICATIONS GROUNDING BUSBAR
TMGB	TELECOMMUNICATIONS MAIN GROUNDING
TSER	TELECOMMUNICATIONS SERVICE ENTRANCE ROOM
UPS	UNINTERUPTIBLE POWER SUPPLY
UTP	UNSHIELDED TWISTED PAIR
UON	UNLESS OTHERWISE NOTED
VIF	VERIFY IN FIELD
VERT	VERTICAL
W/	WITH
WAP	WIRELESS ACCESS POINT
W/O	WITHOUT
WP	WATERPROOF
WT	WEIGHT
W	WIDE
ZDF	ZONE DISTRIBUTION FACILITY

SYMBOLS - OUTLETS

- DETAIL REFERENCE: - (X) DENOTES DETAIL NUMBER - (Y) DENOTES DRAWING NUMBER
- SECTION REFERENCE: - (X) DENOTES DETAIL NUMBER - (Y) DENOTES DRAWING NUMBER
- KEYNOTE REFERENCE: - (#) DENOTES IDENTIFIER
- MH # — UNDERGROUND MANHOLE: - (#) DENOTES IDENTIFIER
- P # — PEDESTAL: - (#) DENOTES IDENTIFIER
- U # — UNDERGROUND PULL BOX: - (#) DENOTES IDENTIFIER
- SERVICE LOOP: - (#) DENOTES LENGTH
- POLE
- COPPER SPLICE
- FIBER SPLICE
- SLEEVE ASSEMBLY
- CONDUIT PATHWAY
- CABLE TRAY
- PB — PULL BOX
- CONDUIT UP
- CONDUIT DOWN
- CONNECTIVITY TERMINATION POINT
- * — QUANTITY TO BE DETERMINED

SYMBOLS - OUTLETS

- WALL FEEDPOINT
- FLOOR BOX FEEDPOINT
- FLOOR POKE THRU FEEDPOINT OUTLET
- WALL OUTLET
- WALL PHONE OUTLET
- FLOOR BOX OUTLET
- CEILING WIRELESS OUTLET
- WALL SECURITY CAMERA OUTLET
- CEILING SECURITY CAMERA OUTLET
- WALL DIGITAL DISPLAY OUTET
- CEILING DIGITAL DISPLAY OUTLET
- CEILING AV PROJECTOR OUTLET
- SECURITY PANEL OUTLET

SYMBOL DESIGNATION

4-PAIR DESIGNATION:

4-PAIR	
Ø	0
A	1
B	2
C	3
D	4
E	5
F	6
G	7
H	8
I	9
J	10
K	11
L	12
M	13
N	14
O	15
P	16
Q	17
R	18
S	19
T	20
U	21
V	22
X	23
W	24
Y	36
Z	48

A — FIRST DESIGNATION LETTER DENOTES QUANTITY OF 4-PAIR CABLES

EXAMPLE: "A" DESIGNATION IS (1) 4-PAIR CABLE

FIBER DESIGNATION:

MMF	
Ø	0
A	2
B	4
C	6
D	8
E	10
F	12
G	18
H	24
I	36
J	48

Ø A — SECOND DESIGNATION LETTER (A-J) DENOTES QUANTITY OF MULTI-MODE FIBER STRANDS

EXAMPLE: "A" DESIGNATION IS (1) 2 STRAND MMF CABLE

SMF	
Ø	0
K	2
L	4
M	6
N	8
O	10
P	12
Q	18
R	24
S	36
T	48

Ø L — SECOND DESIGNATION LETTER (K-T) DENOTES QUANTITY OF SINGLEMODE FIBER STRANDS

EXAMPLE: "L" DESIGNATION IS (1) 4 STRAND SMF CABLE

	MMF	SMF
Ø	0	0
U	12	6
V	*	*
W	*	*
X	*	*
Y	*	*
Z	*	*

Ø U — SECOND DESIGNATION LETTER (K-T) DENOTES QUANTITY OF SINGLEMODE FIBER STRANDS

EXAMPLE: "U" DESIGNATION IS (1) 12 STRAND MMF AND (1) 6 STRAND SMF CABLE

COAX DESIGNATION:

COAX	
Ø	0
A	1
B	2
C	3
D	4
E	5
F	6
G	7
H	8
I	9
J	10
K	11
L	12

Ø Ø B — THIRD DESIGNATION LETTER DENOTES QUANTITY OF COAX CABLES

EXAMPLE: "B" DESIGNATION IS (2) COAX CABLES

SYMBOL DESIGNATION EXAMPLES

D A
- WALL OUTLET
- (2) STRANDS OF MMF
- (4) 4-PAIR CABLES

B Ø B
- WALL DIGITAL DISPLAY OUTLET
- (2) COAX CABLES
- NO FIBER ASSIGNED
- (2) 4-PAIR CABLES

L U B
- PATCH PANEL OUTLET
- (2) COAX CABLES
- (12) STRANDS OF MMF
- (6) STRANDS OF SMF
- (12) 4-PAIR CABLES

GENERAL NOTES

KEY NOTES

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Drawing Title: TELECOM ABBREVIATIONS AND SYMBOLS

Approved: Project Director
Approver

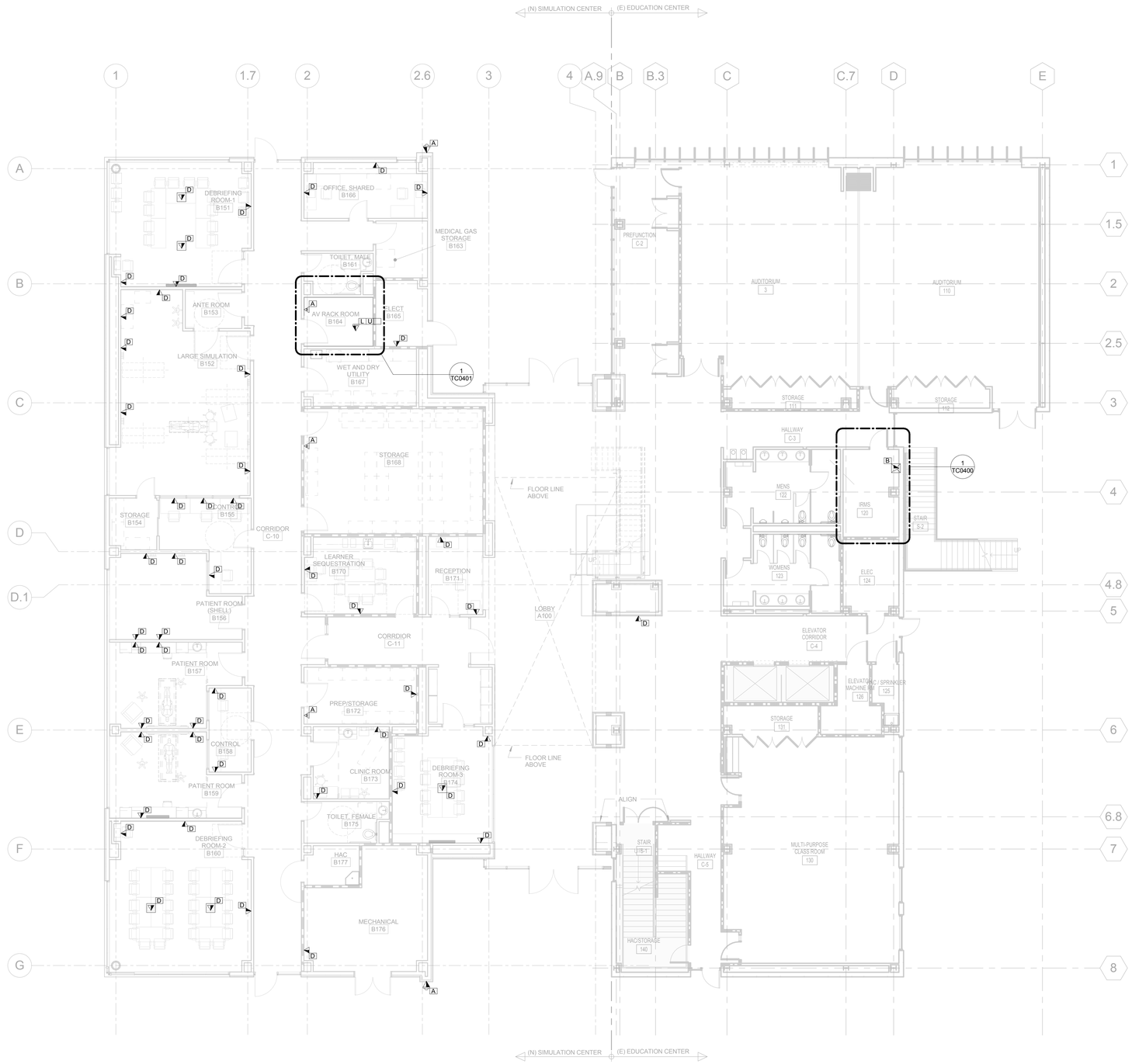
Project Title: VA SIMULATION CENTER

Location: Veterans Affairs Palo Alto Heath Care System, 3801 Miranda Ave,Palo Alto, CA 94304

Date: JUNE 14, 2013 | Checked: DB | Drawn: RM

VA Project Number: 640-385
Building Number: 105
Drawing No. TC0001

VA PAHCS Veterans Affairs Palo Alto Health Care System
Department of Veterans Affairs



1 TELECOM LEVEL 1 FLOOR PLAN
1/8" = 1'-0"

GENERAL NOTES

1. COORDINATE LOCATIONS, MOUNTING DETAILS AND FINISHES OF ALL COMMUNICATIONS COMPONENTS WITH ARCHITECT CONSIDERING INTERIOR LAYOUT AND FIELD CONDITIONS.

2. THE INSTALLATION OF ALL TELECOMMUNICATIONS PATHWAYS AND CONNECTIVITY COMPONENTS MUST COMPLY WITH CODE REQUIREMENTS, SFIA STANDARDS, TIA/EIA STANDARDS, BICSI GUIDELINES AND MANUFACTURER RECOMMENDATIONS. REFER TO SPECIFICATIONS FOR RELEVANT REFERENCE DOCUMENTATION.

KEY NOTES

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Revisions	Date
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Drawing Title: TELECOM LEVEL 1 FLOOR PLAN

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Approver

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VA PAHCS Veterans Affairs Palo Alto Health Care System
Department of Veterans Affairs

1 TELECOM LEVEL 2 AND ROOF PLAN
1/8" = 1'-0"

GENERAL NOTES

1. COORDINATE LOCATIONS, MOUNTING DETAILS AND FINISHES OF ALL COMMUNICATIONS COMPONENTS WITH ARCHITECT CONSIDERING INTERIOR LAYOUT AND FIELD CONDITIONS.

2. THE INSTALLATION OF ALL TELECOMMUNICATIONS PATHWAYS AND CONNECTIVITY COMPONENTS MUST COMPLY WITH CODE REQUIREMENTS, SFIA STANDARDS, TIA/EIA STANDARDS, BICSI GUIDELINES AND MANUFACTURER RECOMMENDATIONS. REFER TO SPECIFICATIONS FOR RELEVANT REFERENCE DOCUMENTATION.

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Drawing Title: TELECOM LEVEL 2 AND ROOF PLAN

Approved: Project Director
Approver

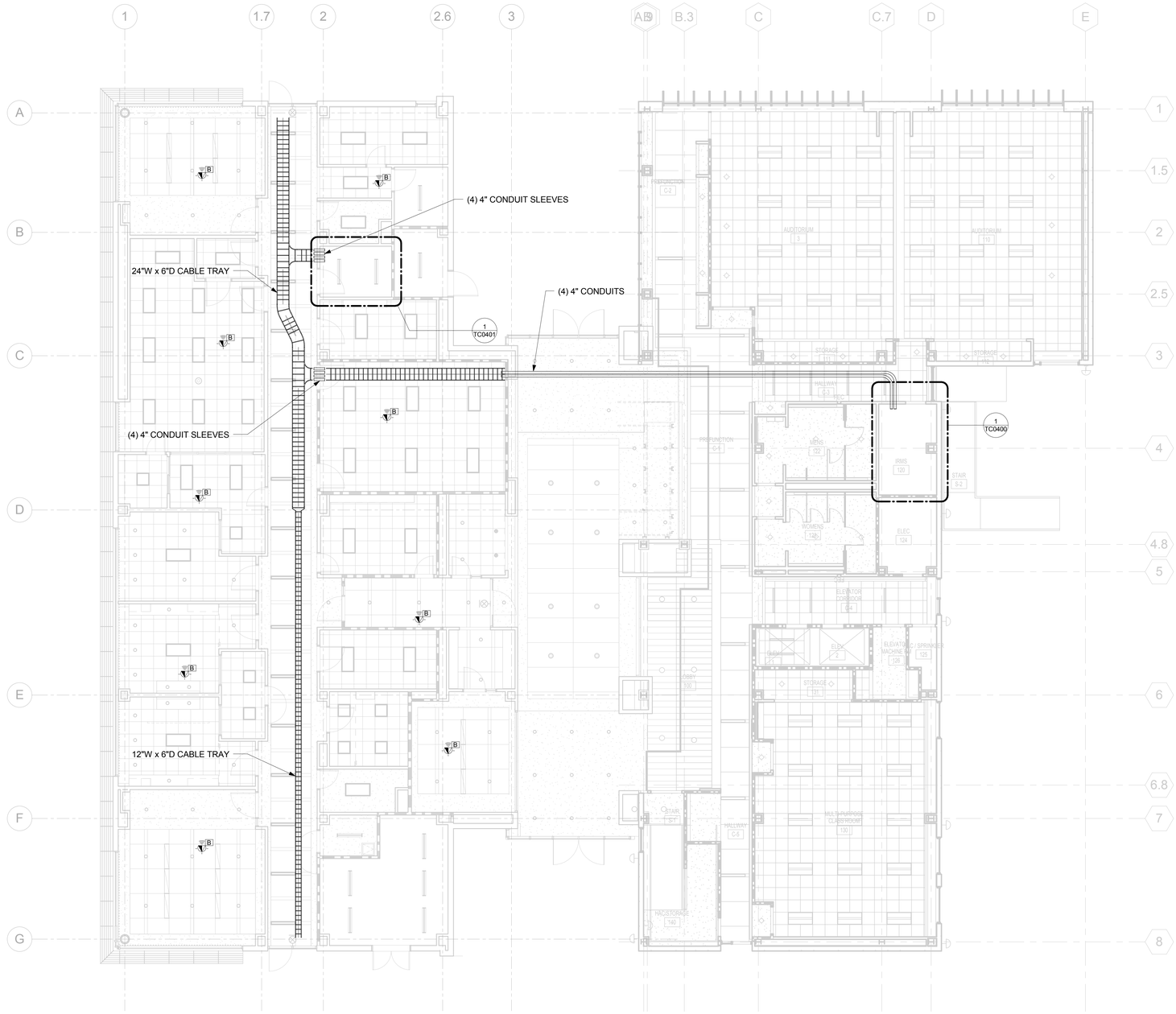
Project Title: VA SIMULATION CENTER

Location: Veterans Affairs Palo Alto Heath Care System, 3801 Miranda Ave,Palo Alto, CA 94304

Date: JUNE 14, 2013 | Checked: DB | Drawn: RM

VA Project Number: 640-385
Building Number: 105
Drawing No. TC0202

VA PAHCS Veterans Affairs Palo Alto Health Care System
Department of Veterans Affairs



1 TELECOM LEVEL 1 REFLECTED CEILING PLAN
1/8" = 1'-0"

GENERAL NOTES

1. COORDINATE LOCATIONS, MOUNTING DETAILS AND FINISHES OF ALL COMMUNICATIONS COMPONENTS WITH ARCHITECT CONSIDERING INTERIOR LAYOUT AND FIELD CONDITIONS.

2. THE INSTALLATION OF ALL TELECOMMUNICATIONS PATHWAYS AND CONNECTIVITY COMPONENTS MUST COMPLY WITH CODE REQUIREMENTS, SFIA STANDARDS, TIA/EIA STANDARDS, BICSI GUIDELINES AND MANUFACTURER RECOMMENDATIONS. REFER TO SPECIFICATIONS FOR RELEVANT REFERENCE DOCUMENTATION.

3. TELECOM IDF ROOM #120 IS AN EXISTING VA TECHNOLOGY SPACE. REVIEW EXISTING SITE CONDITIONS AND COORDINATE NEW COMPONENTS WITH EXISTING LAYOUT.

KEY NOTES

LEGEND

PROJECT NORTH
TRUE NORTH

ISSUE FOR BID

Revisions	Date
9	
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Vancouver ■ Victoria ■ Washington DC

Drawing Title: TELECOM LEVEL 1 REFLECTED CEILING PLAN

Approved: Project Director
Approver

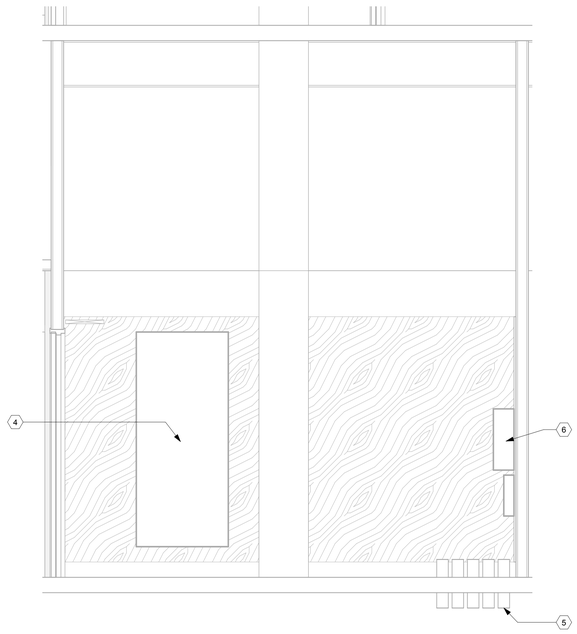
Project Title: VA SIMULATION CENTER

Location: Veterans Affairs Palo Alto Heath Care System, 3801 Miranda Ave,Palo Alto, CA 94304

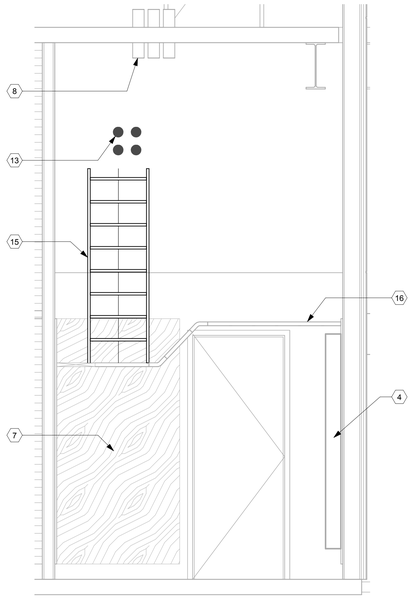
Date: JUNE 14, 2013 | Checked: DB | Drawn: RM

VA Project Number: 640-385
Building Number: 105
Drawing No. TC0301

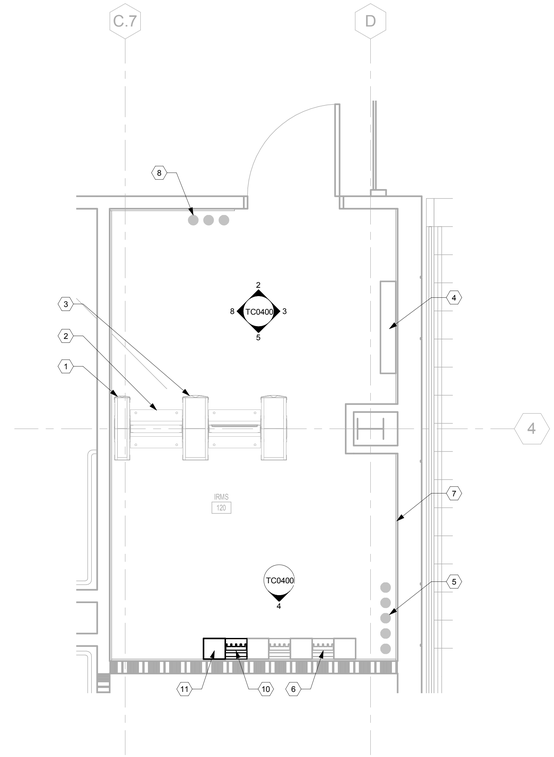
VA PAHCS Veterans Affairs Palo Alto Health Care System
Department of Veterans Affairs



3 PLAN EAST ELEVATION
1/2" = 1'-0"



2 PLAN NORTH ELEVATION
1/2" = 1'-0"



1 FLOOR PLAN LAYOUT
1/2" = 1'-0"

TELECOM KEY NOTES:

1. (E) 6" WIDE VERTICAL WIRE MANAGER
2. (E) 19" x 84" OPEN FRAME RACK
3. (E) 10" WIDE VERTICAL WIRE MANAGER
4. (E) SECURITY CABINET AND TERMINATION AREA FOR EQUIPMENT AND CABLING.
5. (E) INCOMING CONDUITS FROM SITE
6. (E) 110 CROSS CONNECT DISTRIBUTION AND INCOMING SERVICE PROTECTION
7. (E) 3/4" PLYWOOD ON WALL AROUND ROOM, ORIENTED IN VERTICAL, 6" OFF FLOOR
8. (E) CONDUIT SLEEVES TO 2ND FLOOR
9. (E) OVER VOLTAGE PROTECTION FOR INCOMING VOICE CABLING
10. (N) 110 CROSS CONNECT FOR HORIZONTAL VOICE CABLES
11. (N) 110 WIRE MANAGEMENT
12. TERMINATE HORIZONTAL DATA CABLES ON (N) PATCH PANELS COORDINATE W/ (E) INFRASTRUCTURE
13. (N) FOUR 4-INCH CONDUITS TO SIMULATION CENTER
14. (N) PATCH PANEL(S) WITH REAR HOUSING FOR CABLING TO AV RACK ROOM B164 LOCATED IN SIMULATION CENTER.
15. (N) 24" CABLE RUNWAY
16. (E) CABLE RUNWAY
17. (N) HORIZONTAL WIRE MANAGER
18. (N) TERMINATION PATCH PANEL

GENERAL NOTES

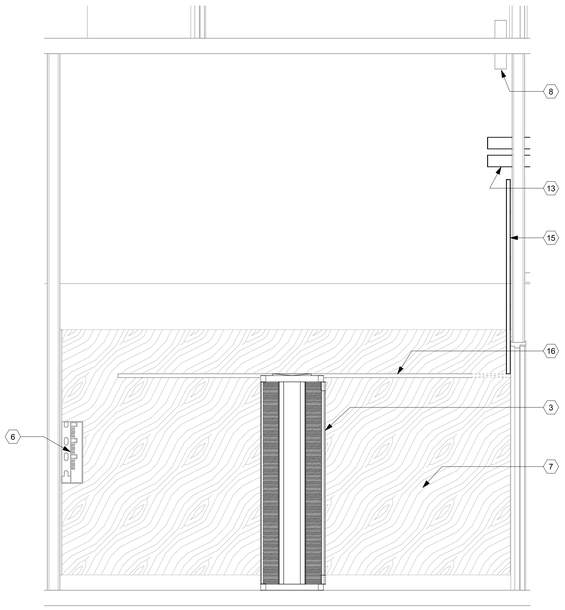
1. COORDINATE LOCATIONS, MOUNTING DETAILS AND FINISHES OF ALL COMMUNICATIONS COMPONENTS WITH ARCHITECT CONSIDERING INTERIOR LAYOUT AND FIELD CONDITIONS.

2. THE INSTALLATION OF ALL TELECOMMUNICATIONS PATHWAYS AND CONNECTIVITY COMPONENTS MUST COMPLY WITH CODE REQUIREMENTS, SFIA STANDARDS, TIA/EIA STANDARDS, BICSI GUIDELINES AND MANUFACTURER RECOMMENDATIONS. REFER TO SPECIFICATIONS FOR RELEVANT REFERENCE DOCUMENTATION.

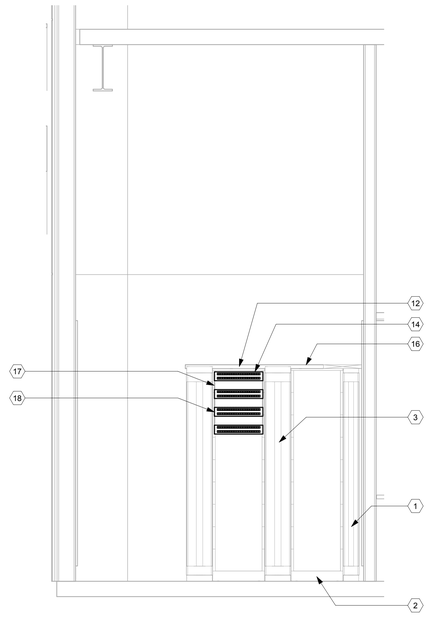
3. TELECOM IDF ROOM #120 IS AN EXISTING VA TECHNOLOGY SPACE. REVIEW EXISTING SITE CONDITIONS AND COORDINATE NEW COMPONENTS WITH EXISTING LAYOUT.

KEY NOTES

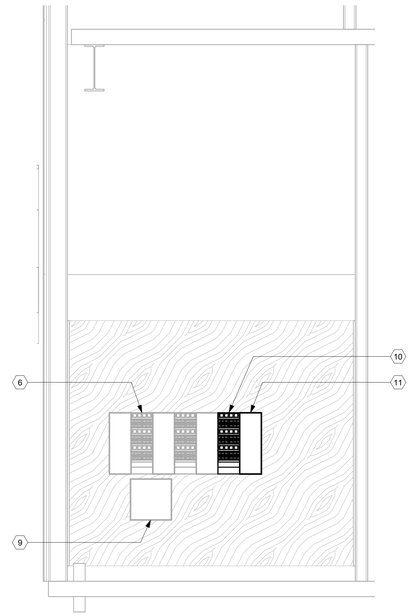
LEGEND



8 PLAN WEST ELEVATION
1/2" = 1'-0"



5 PLAN SOUTH - RACK ROW ELEVATION
1/2" = 1'-0"



4 PLAN SOUTH - WALL FIELD ELEVATION
1/2" = 1'-0"

PROJECT NORTH
TRUE NORTH

ISSUE FOR BID

Revisions	Date
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Vancouver ■ Victoria ■ Washington DC

Drawing Title
EXISTING TELECOM IDF ROOM 120 ENLARGED PLANS AND ELEVATIONS

Approved: Project Director
Approver

Project Title
VA SIMULATION CENTER

Location
Veterans Affairs Palo Alto Heath Care System
3801 Miranda Ave,Palo Alto, CA 94304

Date
JUNE 14, 2013

Checked
DB

Drawn
RM

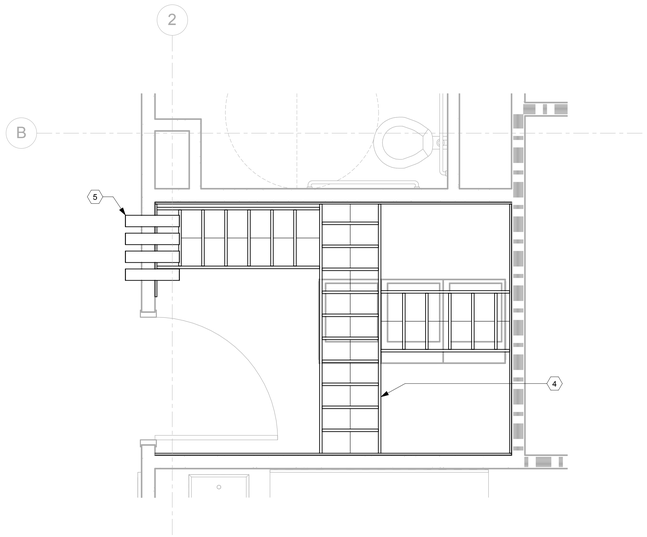
VA Project Number:
640-385

Building Number:
105

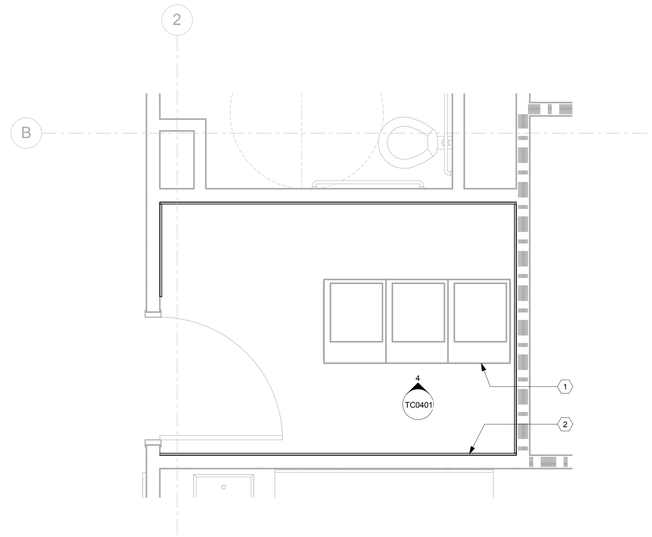
Drawing No.
TC0400

VA PAHCS
Veterans Affairs
Palo Alto Health Care System

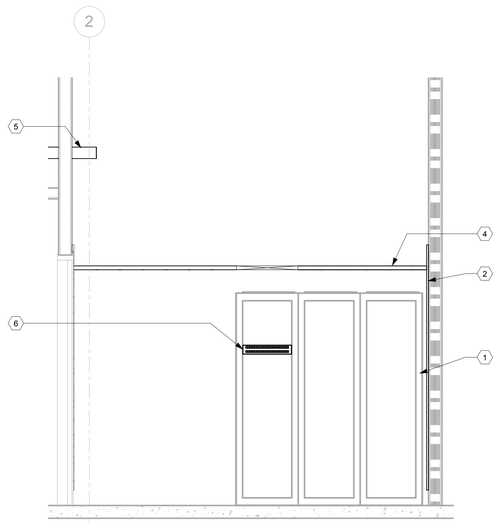
Department of Veterans Affairs



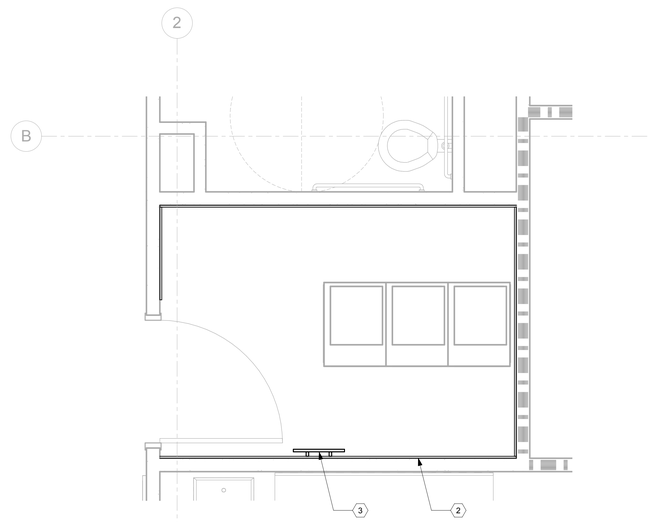
2 CABLE RUNWAY LAYOUT
1/2" = 1'-0"



1 FLOOR PLAN LAYOUT
1/2" = 1'-0"



4 CABINET ROW ELEVATION
1/2" = 1'-0"



3 ELECTRICAL LAYOUT
1/2" = 1'-0"

TELECOM KEY NOTES:

1. AV EQUIPMENT CABINETS
2. 3/4" FIRE-RATED PLYWOOD
3. TELECOM GROUNDING BUSBAR
4. 24" CABLE RUNWAY
5. FOUR 4-INCH CONDUIT SLEEVES
6. PATCH PANEL FOR CABLING TO IDF LOCATED IN IRMS ROOM 120 (EDUCATION BUILDING). SEE SHEET TC0500 FOR PANEL DETAILS. COORDINATE WITH AV DRAWINGS FOR PLACEMENT OF PANEL.

GENERAL NOTES

1. COORDINATE LOCATIONS, MOUNTING DETAILS AND FINISHES OF ALL COMMUNICATIONS COMPONENTS WITH ARCHITECT CONSIDERING INTERIOR LAYOUT AND FIELD CONDITIONS.

2. THE INSTALLATION OF ALL TELECOMMUNICATIONS PATHWAYS AND CONNECTIVITY COMPONENTS MUST COMPLY WITH CODE REQUIREMENTS, SFIA STANDARDS, TIA/EIA STANDARDS, BICSI GUIDELINES AND MANUFACTURER RECOMMENDATIONS. REFER TO SPECIFICATIONS FOR RELEVANT REFERENCE DOCUMENTATION.

KEY NOTES

LEGEND

PROJECT NORTH
TRUE NORTH

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Drawing Title
TELECOM AV RACK ROOM 164
ENLARGED PLANS AND ELEVATIONS

Approved: Project Director
KE

Project Title
VA SIMULATION CENTER

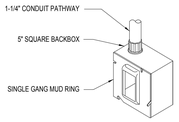
Location
Veterans Affairs Palo Alto Heath Care System
3801 Miranda Ave,Palo Alto, CA 94304

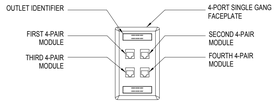
Date	Checked	Drawn
JUNE 14, 2013	DB	RM

VA Project Number: 640-385
Building Number: 105
Drawing No. TC0401

VA PAHCS Veterans Affairs Palo Alto Health Care System
Department of Veterans Affairs

PATHWAY ASSEMBLY:





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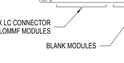
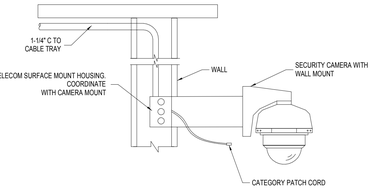


OUTLET NOTES:

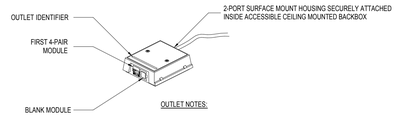
1. CONFIRM THE COLOR OF THE CABLING, CONNECTORS AND COMPONENTS MEET THE PROJECT REQUIREMENTS.
2. COORDINATE SPECIFIC OUTLET LOCATION, HEIGHT AND MOUNTING REQUIREMENTS WITH RESPECTIVE TRADES INVOLVED.

4 WALL OUTLET – TYPE D
SCALE: NTS

PATHWAY ASSEMBLY:



COMPONENT ASSEMBLY:



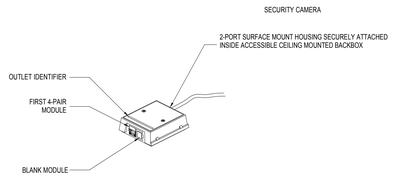
SYMBOL DESIGNATION:

OUTLET NOTES:

1. CONFIRM THE COLOR OF THE CABLING, CONNECTORS AND COMPONENTS MEET THE PROJECT REQUIREMENTS.
2. COORDINATE SPECIFIC OUTLET LOCATION, HEIGHT AND MOUNTING REQUIREMENTS WITH RESPECTIVE TRADES INVOLVED.

3 WALL SECURITY CAMERA – TYPE A
SCALE: NTS

COMPONENT ASSEMBLY:



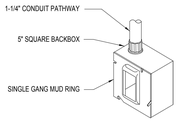
SYMBOL DESIGNATION:

OUTLET NOTES:

1. CONFIRM THE COLOR OF THE CABLING, CONNECTORS AND COMPONENTS MEET THE PROJECT REQUIREMENTS.
2. COORDINATE SPECIFIC OUTLET LOCATION, HEIGHT AND MOUNTING REQUIREMENTS WITH RESPECTIVE TRADES INVOLVED.

2 CEILING SECURITY CAMERA – TYPE A
SCALE: NTS

PATHWAY ASSEMBLY:



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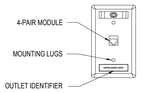


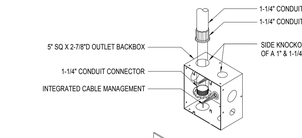
SYMBOL DESIGNATION:

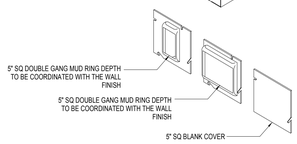
OUTLET NOTES:

1. CONFIRM THE COLOR OF THE CABLING, CONNECTORS AND COMPONENTS MEET THE PROJECT REQUIREMENTS.
2. COORDINATE SPECIFIC OUTLET LOCATION, HEIGHT AND MOUNTING REQUIREMENTS WITH RESPECTIVE TRADES INVOLVED.

1 WALL OUTLET – TYPE A
SCALE: NTS

PATHWAY ASSEMBLY:



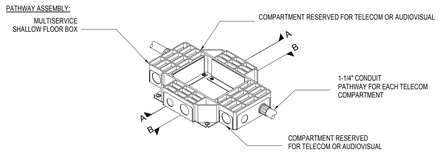


NOTES:

1. COORDINATE SPECIFIC OUTLET LOCATION, HEIGHT AND MOUNTING REQUIREMENTS WITH RESPECTIVE TRADES INVOLVED.

7 TYPICAL BACKBOX & PATHWAY DETAIL
SCALE: NTS

PATHWAY ASSEMBLY:



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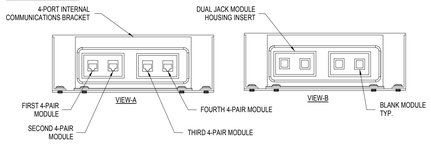

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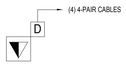
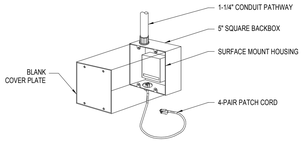


OUTLET NOTES:

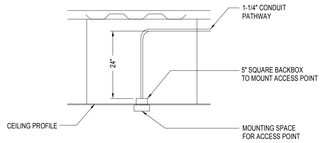
1. CONFIRM THE COLOR OF THE CABLING, CONNECTORS AND COMPONENTS MEET THE PROJECT REQUIREMENTS.
2. COORDINATE THE JACK MODULE HOUSING INSERTS WITH THE FLOOR BOX TYPE & CONNECTIVITY SOLUTION.
3. COORDINATE SPECIFIC OUTLET LOCATION, HEIGHT AND MOUNTING REQUIREMENTS WITH RESPECTIVE TRADES INVOLVED.

6 FLOOR BOX OUTLET – TYPE D
SCALE: NTS

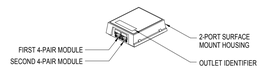
PATHWAY ASSEMBLY IN AN ACCESSIBLE CEILING:



PATHWAY ASSEMBLY IN A NON-ACCESSIBLE CEILING:



COMPONENT ASSEMBLY FOR EITHER ACCESSIBLE AND NON-ACCESSIBLE CEILINGS:



SYMBOL DESIGNATION:

OUTLET NOTES:

1. MOUNT BACKBOX ABOVE ACCESSIBLE CEILING SECURELY TO STRUCTURE.
2. SECURELY FASTEN SURFACE MOUNT HOUSING INSIDE BACKBOX
3. COORDINATE SPECIFIC OUTLET LOCATION, HEIGHT AND MOUNTING REQUIREMENTS WITH RESPECTIVE TRADES INVOLVED.

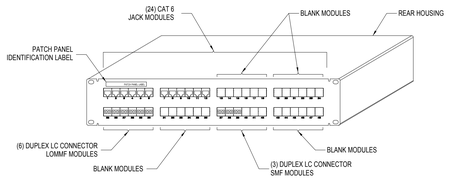
5 ACCESSIBLE AND NON–ACCESSIBLE CEILING WIRELESS OUTLET – TYPE B
SCALE: NTS

PATHWAY ASSEMBLY:

PATHWAY NOTES:

1. IF THE PATCH PANEL OUTLET IS LOCATED WITHIN THE SAME IDF OR MDF NO CONDUIT WORK IS NEEDED.
2. IF THE PATCH PANEL OUTLET IS LOCATED OUTSIDE OF THE IDF ROOM PROVIDE (2) 2" CONDUITS FROM THE PATCH PANEL TO THE CABLE TRAY.

COMPONENT ASSEMBLY:



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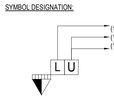
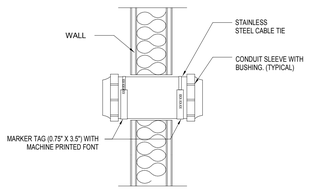


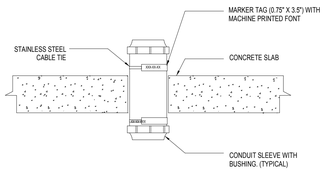
OUTLET NOTES:

1. CABINET/RACK MOUNT: PATCH PANEL MOUNT ON AV CABINET AT OUTLET LOCATION. REFER TO AV DRAWINGS FOR EXACT LOCATION.
2. COORDINATE SPECIFIC OUTLET LOCATION, HEIGHT AND MOUNTING REQUIREMENTS WITH RESPECTIVE TRADES INVOLVED.
3. RECESS TERMINATION PANELS IN AV CABINETS TO ALLOW ADEQUATE SPACE FOR PATCH CORDS.

11 PATCH PANEL OUTLET – TYPE LU
SCALE: NTS

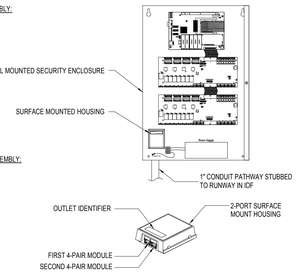


10 CONDUIT SLEEVE IN WALL LABELING
SCALE: NTS



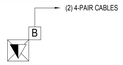
9 CONDUIT SLEEVE IN CONCRETE SLAB LABELING
SCALE: NTS

PATHWAY ASSEMBLY:



COMPONENT ASSEMBLY:

SYMBOL DESIGNATION:



OUTLET NOTES:

1. COORDINATE THE CONDUIT ROUTING WITH THE EXISTING CONDITIONS.
2. PROVIDE THE NECESSARY GROUNDING AND ENTRANCE PROTECTION.
3. COORDINATE SPECIFIC OUTLET LOCATION, HEIGHT AND MOUNTING REQUIREMENTS WITH RESPECTIVE TRADES INVOLVED.

8 SECURITY CONTROL PANEL OUTLET – TYPE B
SCALE: NTS

GENERAL NOTES

KEY NOTES

LEGEND

ISSUE FOR BID

Revisions	Date
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St. Louis ■ San Francisco ■ Shanghai ■ Toronto
Vancouver ■ Victoria ■ Washington DC

Drawing Title: TELECOM DETAILS

Approved: Project Director: Approver

Project Title: VA SIMULATION CENTER

Location: Veterans Affairs Palo Alto Heath Care System, 3801 Miranda Ave,Palo Alto, CA 94304

Date: JUNE 14, 2013 | Checked: DB | Drawn: RM

VA Project Number: 640-385

Building Number: 105

Drawing No. TC0500

VA PAHCS Veterans Affairs Palo Alto Health Care System

Department of Veterans Affairs

SECURITY NOTES

1. ALL CABLE TERMINATIONS TO MAINTAIN TWIST OF INDIVIDUAL PAIRS TO WITHIN 1/2" OR LESS OF FINAL TERMINATION.

2. WIRE AND CABLE SHEATH SHALL BE MAINTAINED TO FINAL TERMINATION.

3. ALL WIRES AND CABLES SHALL BE LABELED WITHIN 6-1/2" OF FINAL TERMINATION.

4. ALL LABELS SHALL BE MACHINE PRINTED OR STENCILED. NO HAND LETTERED LABELS SHALL BE USED.

5. ALL SECURITY DEVICES SHALL BE SECURELY MOUNTED PLUMB & STRAIGHT TO WALLS, FLOORS, OR RACKS PER THE MANUFACTURER'S RECOMMENDED MOUNTING PRACTICE.

6. ALL CABLES SHALL BE PLENUM RATED WHERE REQUIRED.

7. NOTIFY OWNER'S REPRESENTITIVES OF ANY DISCREPANCIES BETWEEN THE EXISTING CONDITIONS AND THE SECURITY DRAWINGS. OBTAIN CLARIFICATION BEFORE PROCEEDING WITH WORK.

8. COORDINATE WITH ELECTRICAL CONTRACTOR FOR SECURITY DEVICE AND CONTROL PANEL ELECTRICAL POWER REQUIREMENTS.

9. PRIOR TO THE COMMENCEMENT OF INSTALLATION OF ANY ELEMENTS OF THE SECURITY SYSTEMS, THE SECURITY CONTRACTOR WILL MEET WITH OWNER'S REPRESENTATIVES AND SUBMIT FOR APPROVAL INSTALLATION DETAILS INCLUDING DEVICE PLACEMENT, CABLE ROUTING, WORK SCHEDULING, MATERIALS DELIVERY, AND ANY OTHER DETAILS PERTINENT TO THE WORK.

10. ALL WIRING, CABLING, SYSTEM DEVICES, AND SYSTEM CONTROL SHALL BE INSTALLED IN COMPLIANCE WITH ALL CODE REQUIREMENTS AND MANUFACTURER'S INSTRUCTIONS AND PRACTICES UNLESS WRITTEN DIRECTION TO THE CONTRARY IS PROVIDED.

11. ALL WIRING AND CABLING RUNS IN CEILING AREAS WHERE CABLE TRAYS OR OTHER IS NOT SPECIFIED, SHALL BE PROPERLY SUPPORTED WITH SIMILAR SUPPORT OR WITH THE USE OF J-HOOKS AT 5'-0" INTERVALS ABOVE CEILING TILES. DO NOT OVERFILL, QUANTITY OF CABLES SHALL BE IN MANUFACTURER INSTRUCTIONS.

ABBREVIATIONS

A	-	AMPERS
AC	-	ABOVE CEILING
AFF	-	ABOVE FINISHED FLOOR
AWG	-	AMERICAN WIRE GAUGE
C	-	CONDUIT
CAT	-	CATALOG
CB	-	CIRCUIT BREAKER
CCTV	-	CLOSED CIRCUIT TELEVISION
CKT	-	CIRCUIT
CL	-	CENTER LINE
CLG	-	CEILING
COND	-	CONDUCTOR
CU	-	COPPER
DVR	-	DIGITAL VIDEO RECORDER
DWG	-	DRAWING
EC	-	EMPTY CONDUIT
EM	-	EMERGENCY
EX	-	EXISTING
FA	-	FIRE ALARM
FACP	-	FIRE ALARM CONTROL PANEL
G	-	GROUND
HC	-	HUNG CEILING
HZ	-	HERTZ
IDF	-	INTERMEDIATE DISTRIBUTION FRAME
JB	-	JUNCTION BOX
LV	-	LOW VOLTAGE
MAX	-	MAXIMUM
MDF	-	MAIN DISTRIBUTION FRAME
MER	-	MECHANICAL EQUIPMENT ROOM
MIN	-	MINIMUM
MTD	-	MOUNTED
MTG	-	MOUNTING
N	-	NEUTRAL
NC	-	NORMALLY CLOSED
NIC	-	NOT IN CONTRACT
NO	-	NORMALLY OPEN
No.	-	NUMBER
NTS	-	NOT TO SCALE
PA	-	PUBLIC ADDRESS
PNL	-	PANEL
POE	-	POWER OVER ETHERNET
PTZ	-	PAN/TILT/ZOOM
RM	-	ROOM
STP	-	SHIELDED TWISTED PAIR
XFRM	-	TRANSFORMER
TEL	-	TELECOMMUNICATIONS
TLR	-	TIME LAPSE RECORDER
TS	-	TAMPER SWITCH
TTB	-	TELECOMMUNICATIONS TERMINAL BOARD
TTC	-	TELECOMMUNICATIONS TERMINAL CABINET
TV	-	TELEVISION
TYP	-	TYPICAL
UON	-	UNLESS OTHERWISE NOTED
UPS	-	UNINTERRUPTIBLE POWER SUPPLY
UTP	-	UNSHIELDED TWISTED PAIR
V	-	VOLTS
VA	-	VOLT-AMPERES
VM	-	VOLTIMETER
VP	-	VAPER PROOF
W	-	WATTS
WP	-	WATERPROOF
WT	-	WATER TIGHT

GENERAL NOTES

1. DRAWINGS ARE NOT TO BE USED FOR ARCHITECTURAL OR ENGINEERING PURPOSES. THE SECURITY DRAWINGS SHOULD ONLY BE USED FOR SECURITY SYSTEMS INSTALLATION AND COORDINATION.

2. ALL MOUNTING SPECIFICS SHALL BE AS INDICATED IN THE LEGEND UNLESS OTHERWISE NOTED IN THE SECURITY DRAWINGS. MOUNTING CONDITIONS IDENTIFIED ON THE SECURITY DRAWINGS SHALL TAKE PRECEDENCE OVER THE LEGEND DESCRIPTIONS.

3. VERIFY AND COORDINATE THE EXACT MOUNTING LOCATION OF ALL DEVICES PRIOR TO INSTALLATION.

4. THE MOUNTING HEIGHTS ARE TO THE CENTERLINE OF THE DEVICE UNLESS OTHERWISE NOTED.

5. THE SECURITY CONTRACTOR SHALL RESTORE CEILINGS AND WALLS AND ANY OTHER SURFACES AFFECTED BY HIS WORK WITH LIKE MATERIALS TO MATCH EXISTING CONSTRUCTION UPON COMPLETION OF HIS WORK.

6. FIRE STOPPING OF ALL PENETRATIONS SHALL BE PROVIDED BY THE SECURITY CONTRACTOR AS REQUIRED BY CODE.

7. ALL DEVICES, WIRING, TERMINATIONS, AND OTHER REQUIRED ROUGH-IN NOT DESIGNATED "BY OTHERS" ARE TO BE PROVIDED BY THE SECURITY CONTRACTOR.

8. CONDUIT, JUNCTION BOXES AND 120 VAC POWER TO BE PROVIDED BY ELECTRICAL CONTRACTOR.

ELECTRICAL NOTES

(1) RISER POWER (EMERGENCY CIRCUIT)

ELECTRICAL CONTRACTOR TO PROVIDE A HARD WIRED CONNECTION TO A 120VAC 20A EMERGENCY CIRCUIT DEDICATED TO SECURITY IN EACH RISER LOCATION WITHIN A 4" X 4" BOX SURFACE MOUNTED 18" A.F.F. WITH WIRE ENDS TERMINATED AND INSULATED WITH WIRE NUTS

(2) RISER POWER (NON-EMERGENCY CIRCUIT)

ELECTRICAL CONTRACTOR TO PROVIDE A HARD WIRED CONNECTION TO A 120VAC 20A NON-EMERGENCY CIRCUIT DEDICATED TO SECURITY IN EACH RISER LOCATION WITHIN A 4" X 4" BOX SURFACE MOUNTED 18" A.F.F. WITH WIRE ENDS TERMINATED AND INSULATED WITH WIRE NUTS

(3) SECURITY CONTROL/EQUIPMENT ROOM POWER (UPS CIRCUIT)

ELECTRICAL CONTRACTOR TO PROVIDE A HARD WIRED CONNECTION TO A 120VAC 20A UNINTERRUPTIBLE POWER CIRCUIT DEDICATED TO SECURITY WITHIN A 4" X 4" BOX SURFACE MOUNTED BELOW THE FLOOR UNDER THE CONSOLE/RACK WITH WIRE ENDS TERMINATED AND INSULATED WITH WIRE NUTS.

(4) MAGNOTOMETER/X-RAY SCANNER POWER (EMERGENCY CIRCUIT)

ELECTRICAL CONTRACTOR SHALL PROVIDE AN UN-SWITCHED DUPLEX OUTLET CONNECTED TO A 120VAC 20A EMERGENCY CIRCUIT DEDICATED TO SECURITY. THE OUTLET SHALL BE FLUSH MOUNTED IN THE FLOOR.

(5) EXTERIOR CAMERA POWER (EMERGENCY CIRCUIT)

ELECTRICAL CONTRACTOR SHALL PROVIDE A HARD WIRED CONNECTION TO A 120VAC 20A EMERGENCY CIRCUIT DEDICATED TO SECURITY. THE CIRCUIT CONNECTION SHALL BE PROVIDED WITHIN A 4" X 4" BOX MOUNTED ABOVE ACCESSIBLE CEILING ON INTERIOR OF BUILDING WITH WIRE ENDS TERMINATED INSULATED WITH WIRE NUTS. MULTIPLE CONNECTIONS CAN BE BRANCHED OFF THIS CIRCUIT FOR ADDITIONAL CAMERAS BUT SHALL NOT EXCEED 15 CONNECTIONS TOTAL. EACH CAMERA'S ACTUAL LOAD SHALL BE 1A AT 120VAC.

(6) POLE MOUNTED CAMERA POWER (EMERGENCY CIRCUIT)

ELECTRICAL CONTRACTOR SHALL PROVIDE A HARD WIRED CONNECTION TO A 120VAC 20A EMERGENCY CIRCUIT DEDICATED TO SECURITY PROVIDED WITHIN A NEMA 4X ENCLOSURE MOUNTED AT THE BASE OF THE POLE WITH WIRE ENDS TERMINATED AND INSULATED WITH WIRE NUTS. MULTIPLE CONNECTIONS CAN BE BRANCHED OFF THIS CIRCUIT FOR ADDITIONAL CAMERAS BUT SHALL NOT EXCEED 15 CONNECTIONS TOTAL. EACH CAMERA'S ACTUAL LOAD SHALL BE 1A AT 120VAC.

(7) DELAYED EXIT DEVICE POWER (NON-EMERGENCY CIRCUIT)

ELECTRICAL CONTRACTOR SHALL PROVIDE A HARD WIRED CONNECTION TO A 120VAC 20A NON-EMERGENCY CIRCUIT DEDICATED TO SECURITY AT DOORS UTILIZING DELAYED EXIT DEVICES PROVIDED WITHIN A 4" X 4" BOX MOUNTED ABOVE ACCESSIBLE CEILING ADJACENT TO THE DOOR WITH WIRE ENDS TERMINATED AND INSULATED WITH WIRE NUTS.

(8) ELECTRIC EXIT DEVICE POWER (EMERGENCY CIRCUIT)

ELECTRICAL CONTRACTOR SHALL PROVIDE A HARD WIRED CONNECTION TO A 120VAC 20A EMERGENCY CIRCUIT DEDICATED TO SECURITY AT DOORS UTILIZING ELECTRIC EXIT DEVICES PROVIDED WITHIN A 4" X 4" BOX MOUNTED ABOVE ACCESSIBLE CEILING ADJACENT TO THE DOOR WITH WIRE ENDS TERMINATED AND INSULATED WITH WIRE NUTS. MULTIPLE CONNECTIONS CAN BE BRANCHED OFF THIS CIRCUIT FOR ADDITIONAL ELECTRIC EXIT DEVICES BUT SHALL NOT EXCEED 10 CONNECTIONS TOTAL. EACH DEVICE'S ACTUAL LOAD SHALL BE 1.5A AT 120VAC.

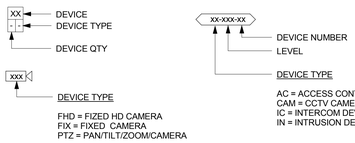
(9) SITE POWER(NON-EMERGENCY CIRCUIT)

ELECTRICAL CONTRACTOR SHALL PROVIDE A HARD WIRED CONNECTION TO A 120VAC 20A NON-EMERGENCY CIRCUIT DEDICATED TO SECURITY WITHIN A NEMA 4X ENCLOSURE WITH WIRE ENDS TERMINATED AND INSULATED WITH WIRE NUTS

(10) SECURITY CONVENIENCE POWER (NON-EMERGENCY CIRCUIT)

ELECTRICAL CONTRACTOR SHALL PROVIDE AN UN-SWITCHED DUPLEX OUTLET CONNECTED TO A 120VAC 20A NON-EMERGENCY CIRCUIT PROVIDED FLUSH IN WALL 18" A.F.F.

SECURITY - DEVICE SYMBOL / TAG LEGEND



SECURITY - EQUIPMENT SYMBOL LEGEND

ACP	ACCESS CONTROL PANEL
AFP	ACCESS FIELD PANEL
ACS	ACCESS CONTROL SERVER
AN	ANNUNCIATOR
AO	AUTOMATIC DOOR OPENER INTERFACE (BY OTHERS)
AP	ALARM PANEL
CCTV	CCTV CONTROLLER
DE	CCTV DECODER
DAP	DIGITAL ALARM PANEL
DR 1 P	DOOR RELEASE BUTTON
DVR	DIGITAL VIDEO RECORDER
ECB	EMERGENCY CALL BUTTON
ECP	ELEVATOR CONTROL PANEL
GCR	GUEST CARD READER
EN	CCTV ENCODER
GT	GUARD TOUR POINT
GB	GLASS BREAK SENSOR
HE	HEAD END MONITORING LOCATION
KP	ALARM KEYPAD
K	FIRE RELAY (FOR LOCK RELEASE)
LA	LOCAL ALARM
MA	MEDICAL ALERT
MD	MOTION DETECTOR
MD 360	MOTION DETECTOR 360 = 360 DEGREE LR = LONG RANGE
MON	CCTV MONITOR
MUX	CCTV VIDEO MULTIPLEXER
NVR	NETWORK VIDEO RECORDER
PB 1 P	PANIC BUTTON P = PANIC (U.O.N) F = FOOT ALARM
SBR	SECURITY BADGE PRINTER
SI	SIREN (INTRUSION ALARM, ACCESS CONTROL)
VBS	VIDEO BADGING STATION
WC	WINDOW CONTACT
WS	WORKSTATION
SR	SECURITY RISER LOCATION
XLP	LOCK POWER SUPPLY
XCP	CAMERA POWER SUPPLY

SECURITY - CAMERA MOUNTING TYPES

	WALL MOUNT
	INSIDE CORNER MOUNT
	OUTSIDE CORNER MOUNT
	CEILING MOUNT

SECURITY - DOOR DEVICE SYMBOL LEGEND

AC 1 P	ACCESS CONTROL	P = PROXIMITY M = MAGNETIC SWIPE K = KEYPAD	B = BIOMETRIC R = RFID S = KEY SWITCH	V = VEHICLE
DC 1 R	DOOR CONTACT	R = RECESSED S = SURFACE MOUNT		
TH	TRANSFER HINGE			
EL 1 F	ELECTRIC LOCK -WITH INTERGAL REQUEST TO EXIT DEVICE	F = FAIL SAFE S = FAIL SECURE		
EE 1 F	ELECTRIFIED EXIT DEVICE - WITH INTEGRAL REQUEST	F = FAIL SAFE S = FAIL SECURE		
ES 1 F	ELECTRIC STRIKE	F = FAIL SAFE S = FAIL SECURE		
ML 1 F	MAGNETIC LOCK	F = FAIL SAFE S = FAIL SECURE		
RX 1 M	REQUEST TO EXIT	M = MOTION DETECTOR P = PUSH BUTTON		
VI 1 S / IC 1 S	INTERCOMM	M = MASTER-STATION S = SUB-STATION		

SECURITY DRAWING LIST	
SC0000	SECURITY GENERAL NOTES, ABBREVIATIONS, SYMBOLS, AND DRAWING LIST
SC0201	SECURITY LEVEL 1 FLOOR PLAN
SC0202	SECURITY LEVEL 2 AND ROOF PLAN
SC0300	SECURITY ENLARGED PLANS AND ELEVATIONS
SC0400	SECURITY RISER DIAGRAM
SC0500	SECURITY DETAILS

GENERAL NOTES

KEY NOTES

LEGEND

ISSUE FOR BID

Revisions	Date
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Drawing Title: SECURITY GENERAL NOTES, ABBREVIATIONS, SYMBOLS, AND DRAWING LIST

Approved: Project Director
Approver

Project Title: VA SIMULATION CENTER

Location: Veterans Affairs Palo Alto Heath Care System, 3801 Miranda Ave,Palo Alto, CA 94304

Date: JUNE 14, 2013 | Checked: BB | Drawn: RM

VA Project Number: 640-385

Building Number: 105

Drawing No. SC0000

VA PAHCS Veterans Affairs Palo Alto Health Care System

Department of Veterans Affairs

1 SECURITY LEVEL 1 FLOOR PLAN
1/8" = 1'-0"

GENERAL NOTES

1. ALL EQUIPMENT TO BE PROVIDED IN THE FUTURE. ONLY PROVIDE INFRASTRUCTURE (POWER, CONDUIT, BACKBOXES, ETC.) AS INDICATED ON SHEET SC0500.

KEY NOTES

LEGEND

PROJECT NORTH
TRUE NORTH

ISSUE FOR BID

Revisions	Date
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Drawing Title: SECURITY LEVEL 1 FLOOR PLAN

Approved: Project Director
Approver

Project Title: VA SIMULATION CENTER

Location: Veterans Affairs Palo Alto Heath Care System
3801 Miranda Ave,Palo Alto, CA 94304

Date: JUNE 14, 2013 | Checked: BB | Drawn: RM

VA Project Number: 640-385
Building Number: 105
Drawing No. SC0201

VA PAHCS Veterans Affairs Palo Alto Health Care System
Department of Veterans Affairs

1 SECURITY LEVEL 2 AND ROOF PLAN
1/8" = 1'-0"

GENERAL NOTES

1. ALL EQUIPMENT TO BE PROVIDED IN THE FUTURE. ONLY PROVIDE INFRASTRUCTURE (POWER, CONDUIT, BACKBOXES, ETC.) AS INDICATED ON SHEET SC0500.

KEY NOTES

LEGEND

PROJECT NORTH
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Vancouver ■ Victoria ■ Washington DC

Drawing Title: SECURITY LEVEL 2 AND ROOF PLAN

Approved: Project Director
Approver

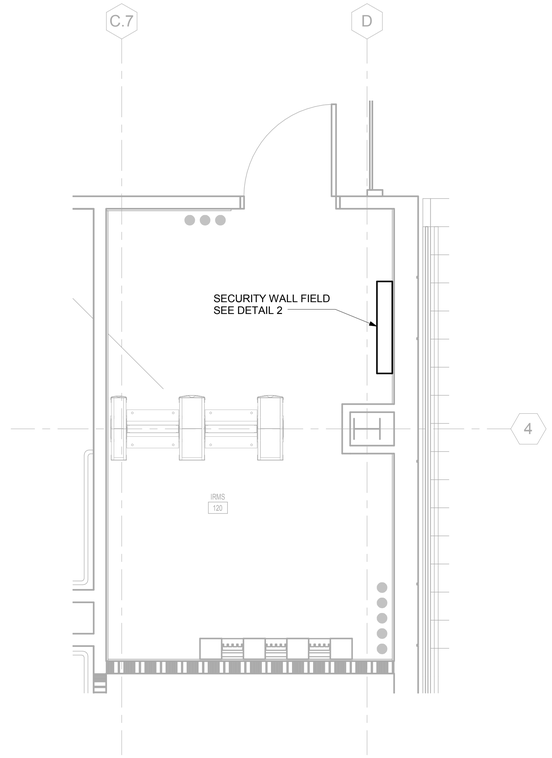
Project Title: VA SIMULATION CENTER

Location: Veterans Affairs Palo Alto Heath Care System
3801 Miranda Ave,Palo Alto, CA 94304

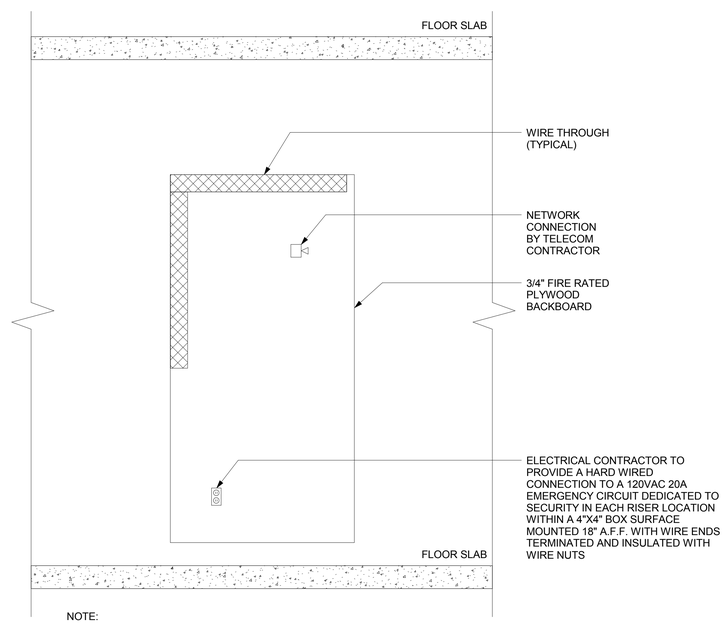
Date: JUNE 14, 2013
Checked: BB
Drawn: RM

VA Project Number: 640-385
Building Number: 105
Drawing No. SC0202

VA PAHCS Veterans Affairs Palo Alto Health Care System
Department of Veterans Affairs



1 IRMS 120 FLOOR PLAN LAYOUT
1/2" = 1'-0"



NOTE:

4'X8' WALL FIELD SECTION RESERVED FOR FUTURE SECURITY EQUIPMENT LOCATED WITHIN EXISTING IRMS (120) ROOM OF THE EDUCATION CENTER.

2 SECURITY EQUIPMENT ELEVATION (TYPICAL)
3/4" = 1'-0"

GENERAL NOTES

KEY NOTES

LEGEND

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Drawing Title
SECURITY ENLARGED PLANS AND ELEVATIONS

Approved: Project Director
Approver

Project Title
VA SIMULATION CENTER

Location
Veterans Affairs Palo Alto Heath Care System
3801 Miranda Ave,Palo Alto, CA 94304

Date
JUNE 14, 2013

Checked
BB

Drawn
RM

VA Project Number:
640-385

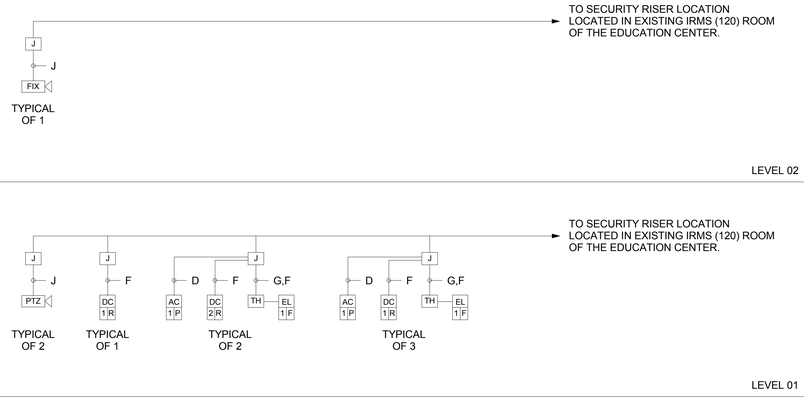
Building Number:
105

Drawing No.
SC0300

VA PAHCS
Veterans Affairs
Palo Alto Health Care System

Department of Veterans Affairs

SECURITY CABLE LEGEND							
WIRE TAG	DEVICE/SYSTEM CONNECTIONS	GUAGE (AWG)	NO. OF PAIRS	SHIELDED	CABLE TYPE	MAX.	NOTES:
A	CCTV VIDEO (COAXIAL)	18	-	RG/6U	SOLID	1200'	OR APPROVED EQUAL
B	CCTV VIDEO (COAXIAL)	20	-	RG/59U	SOLID	850'	OR APPROVED EQUAL
C	CCTV VIDEO (COAXIAL)	22	-	RG/59U	STRANDED	850'	OR APPROVED EQUAL
D	DATA (CARD READER)	24	3	YES	STRANDED	500'	OR APPROVED EQUAL
E	CONTROL, SWITCHING	22/18	3 COND.	NO	STRANDED	500'	OR APPROVED EQUAL
F	CONTROL, SWITCHING	22	4 COND.	NO	STRANDED	500'	OR APPROVED EQUAL
G	POWER (24V AC/DC)	18	1	NO	STRANDED	500'	OR APPROVED EQUAL
H	POWER/CONTROL	18	2	NO	STRANDED	500'	OR APPROVED EQUAL
J	COMMUNICATIONS (DATA)	24	4	UTP/CAT6	SOLID	295'	OR APPROVED EQUAL
K	COMMUNICATIONS (RS-485)	24	2	YES	STRANDED	4000'	OR APPROVED EQUAL
L	COMMUNICATIONS (RS-232)	22	2	YES	SOLID	50'	OR APPROVED EQUAL
M	VIDEO & POWER (SIAMESE)	20/18	-	RG/59U	SOLID	1200'	OR APPROVED EQUAL



1 SECURITY RISER DIAGRAM
NTS

GENERAL NOTES

1. ALL EQUIPMENT TO BE PROVIDED IN THE FUTURE. ONLY PROVIDE INFRASTRUCTURE (POWER, CONDUIT, BACKBOXES, ETC.) AS INDICATED ON SHEET SC0500.

KEY NOTES

LEGEND

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Drawing Title: SECURITY RISER DIAGRAM

Approved: Project Director
Approver

Project Title: VA SIMULATION CENTER

Location: Veterans Affairs Palo Alto Heath Care System
3801 Miranda Ave,Palo Alto, CA 94304

Date: JUNE 14, 2013
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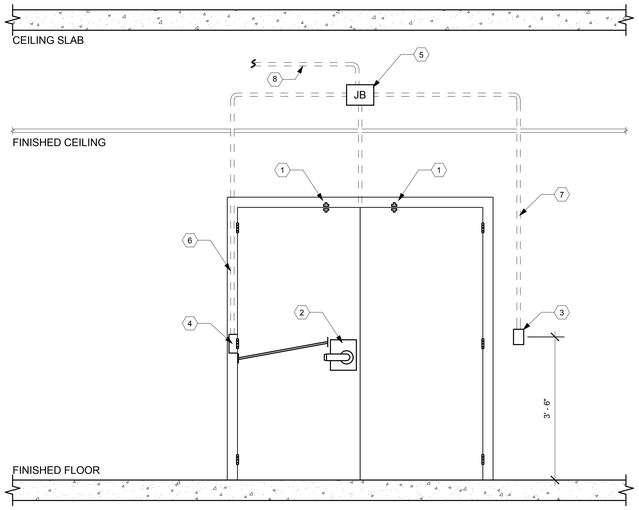
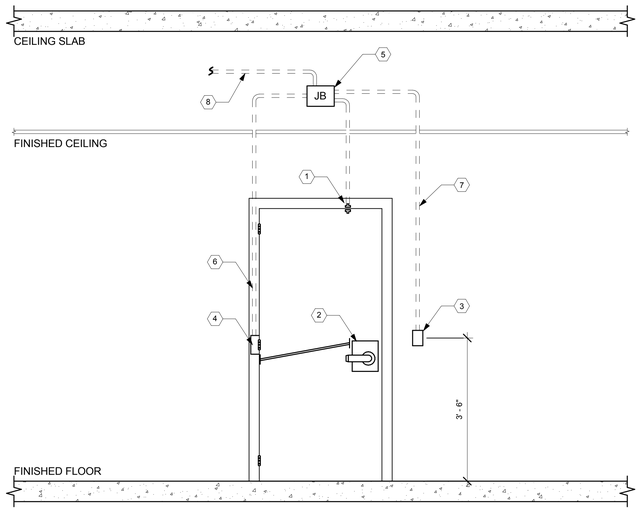


DETAIL NOTES: (#)

1. DOOR POSITION SWITCH
2. ELECTRIFIED MORTISE LOCKING DEVICE WITH INTEGRAL REQUEST TO EXIT DEVICE, BY DOOR HARDWARE CONTRACTOR
3. CARD READER. ELECTRICAL CONTRACTOR TO PROVIDE 4" X 4" X 2-1/8" DEEP JUNCTION BOX.
4. ELECTRIC HINGE BY DOOR HARDWARE CONTRACTOR.
5. ELECTRICAL CONTRACTOR TO PROVIDE 6" X 6" X 4" DEEP JUNCTION BOX ABOVE DOOR, ABOVE ACCESSIBLE CEILING.
6. ELECTRICAL CONTRACTOR TO STUB 3/4" CONDUIT OR GREENFIELD DOWN DOOR FRAME ON THE HINGE SIDE OF THE DOOR BACK BOX, TO JUNCTION BOX LOCATED ABOVE ACCESSIBLE CEILING
7. ELECTRICAL CONTRACTOR TO STUB 3/4" CONDUIT WITH DRAG LINE.
8. ELECTRICAL CONTRACTOR TO PROVIDE 3/4" CONDUIT TO NEAREST SECURITY RISER LOCATION OR CABLE TRAY, WHICHEVER IS CLOSER. REFER TO TC SERIES DRAWINGS FOR ADDITIONAL INFORMATION ON CABLE TRAY.

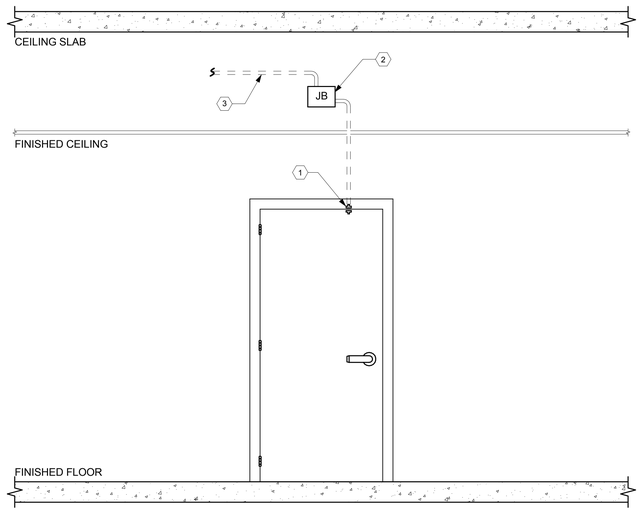
3 MORTISE LOCKING DEVICE, CARD READER CONFIGURATION
NTS



DETAIL NOTES: (#)

1. DOOR POSITION SWITCH
2. ELECTRIFIED MORTISE LOCKING DEVICE WITH INTEGRAL REQUEST TO EXIT DEVICE, BY DOOR HARDWARE CONTRACTOR
3. CARD READER. ELECTRICAL CONTRACTOR TO PROVIDE 4" X 4" X 2-1/8" DEEP JUNCTION BOX.
4. ELECTRIC HINGE BY DOOR HARDWARE CONTRACTOR.
5. ELECTRICAL CONTRACTOR TO PROVIDE 4" X 4" X 2-1/8" DEEP JUNCTION BOX ABOVE DOOR, ABOVE ACCESSIBLE CEILING.
6. ELECTRICAL CONTRACTOR TO STUB 3/4" CONDUIT OR GREENFIELD DOWN DOOR FRAME ON THE HINGE SIDE OF THE DOOR BACK BOX, TO JUNCTION BOX LOCATED ABOVE ACCESSIBLE CEILING
7. ELECTRICAL CONTRACTOR TO STUB 3/4" CONDUIT WITH DRAG LINE.
8. ELECTRICAL CONTRACTOR TO PROVIDE 3/4" CONDUIT TO NEAREST SECURITY RISER LOCATION OR CABLE TRAY, WHICHEVER IS CLOSER. REFER TO TC SERIES DRAWINGS FOR ADDITIONAL INFORMATION ON CABLE TRAY.

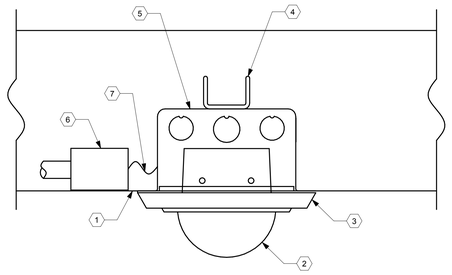
2 MORTISE LOCKING DEVICE, CARD READER CONFIGURATION
NTS



DETAIL NOTES: (#)

1. DOOR POSITION SWITCH
2. ELECTRICAL CONTRACTOR TO PROVIDE 4" X 4" X 2-1/8"DEEP JUNCTION BOX ABOVE DOOR, ABOVE ACCESSIBLE CEILING.
3. ELECTRICAL CONTRACTOR TO PROVIDE 3/4" CONDUIT TO NEAREST SECURITY RISER LOCATION OR CABLE TRAY, WHICHEVER IS CLOSER. REFER TO TC SERIES DRAWINGS FOR ADDITIONAL INFORMATION ON CABLE TRAY.

1 DOOR CONTACT SINGLE DOOR
NTS



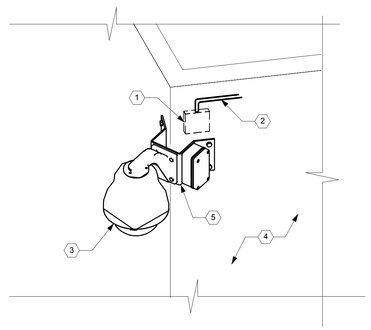
GENERAL NOTES:

1. REFER TO FLOOR PLANS FOR EXACT MOUNTING HEIGHTS

DETAIL NOTES: (#)

1. FINISHED CEILING PER ARCHITECTURAL DRAWINGS
2. CCTV CAMERA DOME
3. NEOPRANE GASKET WEATHER SEAL ALL AROUND
4. STRUCTURAL SUPPORT BY BUILDING PER NEC
5. 2-1/2" DEEP 2 GANG BOX BY ELECTRICAL CONTRACTOR
6. CONDUIT AND JUNCTION BOX WITH IP DATA JACK PROVIDED WITHIN TELECOMMUNICATIONS PACKAGE. REFER TO TELECOMMUNICATIONS SERIES DRAWINGS FOR ADDITIONAL INFORMATION.
7. IP JUMPER CABLE BY SECURITY CONTRACTOR

5 INTERIOR CEILING MOUNTED CCTV MINI-DOME IP CAMERA
NTS



DETAIL NOTES: (#)

1. 6"x 6"x 4" DEEP BOX MOUNTED FLUSH IN WALL BY ELECTRICAL CONTRACTOR
2. CONDUIT AND JUNCTION BOX WITH IP DATA JACK PROVIDED WITHIN TELECOMMUNICATIONS PACKAGE. REFER TO TELECOMMUNICATION SERIES DRAWINGS FOR ADDITIONAL INFORMATION
3. CCTV CAMERA IN ENVIRONMENTAL HOUSING MOUNTED 20' MINIMUM (EXTERIORS)
4. WALL
5. CORNER MOUNT FOR CAMERA DOME

4 CCTV CAMERA - CORNER MOUNT
NTS

GENERAL NOTES

1. ALL EQUIPMENT TO BE PROVIDED IN THE FUTURE. ONLY PROVIDE INFRASTRUCTURE (POWER, CONDUIT, BACKBOXES, ETC.) AS INDICATED.

KEY NOTES

LEGEND

ISSUE FOR BID

Revisions	Date
9	
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Vancouver ■ Victoria ■ Washington DC

Drawing Title: SECURITY DETAILS

Approved: Project Director: Approver

Project Title: VA SIMULATION CENTER

Location: Veterans Affairs Palo Alto Heath Care System, 3801 Miranda Ave,Palo Alto, CA 94304

Date: JUNE 14, 2013 | Checked: BB | Drawn: RM

VA Project Number: 640-385

Building Number: 105

Drawing No. SC0500

VA PAHCS Veterans Affairs Palo Alto Health Care System

Department of Veterans Affairs