

ABBREVIATIONS

AL. SL. ALUMINUM SLIDER	(N) NORTH
ALT. ALTERNATE	N.A. NOT APPLICABLE
A.T. ACOUSTIC TITLE	N.I.C. NOT IN CONTRACT
BD. BOARD	O.C. ON CENTER
CLG. CEILING	Q.T. QUARRY TILE
COL. COLUMN	R.A. RETURN AIR
CONC. OR GNC. CONCRETE	RDWD. REDWOOD
COND. CONDITION	REF. REFRIGERATOR
CPT. CARPET	REV. REVISED
DBL. DOUBLE	R.T.S. RUBBER TOP SET
DN. DOWN	S. SOUTH
DS. DOWNSPOUT	SHT. SHEET
DTL. DETAIL	SIM. SIMILAR
E. EAST	S & P SHELF AND POLE
EA. EACH	SPECS. SPECIFICATIONS
ELEC. ELECTRICAL	T. THERMOSTAT
EXH. EXHAUST	T.C. TIME CLOCK
EXP. EXPOSED STRUCTURE	T.O.PL. TOP OF PLATE
EXT. EXTERIOR	TYP. TYPICAL
FIN. FLR. FINISH FLOOR	U.O.N. UNLESS OTHERWISE NOTED
F. GL. FIXED GLASS	U.N.O. UNLESS NOTED OTHERWISE
GA. GAUGE	V. VARIES
GYP. BD. OR G.B. GYPSUM BOARD	V.W.C. VINYL WALL COVERING
H.B. HOSE BIBB	W. WEST
HI. HIGH	W WITH
HT. HEIGHT	W.C. WATER CLOSET
HR. HOUR	WD/ WOOD
INT. INTERIOR	WH WATER HEATER
JST. JOIST	W.P. WATERPROOF
LAV. LAVATORY	WT WEIGHT
LT. LIGHT	O ROUND
M.E. METAL EDGE	# NUMBER
MET METAL	@ AT

PROJECT TEAM

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ELECTRICAL ENGINEER: IRJ ENGINEERS, INC. 249T HARBOR BLVD SUITE 1 VENTURA, CA. 93001 VOICE: (805)642-2355 FAX: (805)658-0623 CONTACT: JACK IVERS	MECHANICAL ENGINEER: IRJ ENGINEERS, INC. 249T HARBOR BLVD SUITE 1 VENTURA, CA. 93001 VOICE: (805)642-2355 FAX: (805)658-0623 CONTACT: STEVE ROMOFSKY

GENERAL NOTES

PROJECT SCOPE:
THE SCOPE OF THE PROJECT CONSISTS OF THE CONSTRUCTION OF AN ACCESSIBLE TOILET ROOM TO SERVE THE P.A.C.U. ADDITIONALLY, A NEW CLINICAL SINK AND ELECTRICAL PANELS ARE INCLUDED WITHIN THE SCOPE OF THE PROJECT.

APPLICABLE CODES:
2013 CALIFORNIA BUILDING STANDARDS ADMINISTRATIVE CODE (CAC) PART 1, TITLE 24, CALIFORNIA CODE OF REGULATIONS (CCR)
2013 CALIFORNIA BUILDING CODE (CBC) PART 2, TITLE 24, CALIFORNIA CODE OF REGULATIONS (CCR) BASED ON THE 2012 INTERNATIONAL BUILDING CODE (IBC)
2013 CALIFORNIA ELECTRICAL CODE (CEC) PART 3, TITLE 24, CALIFORNIA CODE OF REGULATIONS (CCR) BASED ON THE 2011 NATIONAL ELECTRICAL CODE (NEC)
2013 CALIFORNIA MECHANICAL CODE (CMC) PART 4, TITLE 24, CALIFORNIA CODE OF REGULATIONS (CCR) BASED ON THE 2012 UNIFORM MECHANICAL CODE (UMC)
2013 CALIFORNIA PLUMBING CODE (CPC) PART 5, TITLE 24, CALIFORNIA CODE OF REGULATIONS (CCR) BASED ON THE 2012 UNIFORM PLUMBING CODE (UPC)
2013 CALIFORNIA FIRE CODE (CFC) PART 4, TITLE 24, CALIFORNIA CODE OF REGULATIONS (CCR) BASED ON THE 2012 INTERNATIONAL FIRE CODE (IFC)

CONSTRUCTION TYPE:
TYPE III-A FULLY SPRINKLERED

OCCUPANCY:
I-2

INDEX OF DRAWINGS

ARCHITECTURAL	
T	TITLE SHEET
A1	MASTER PLAN
A2	PARTIAL DEMOLITION, FLOOR & REFLECTED CEILING PLANS
A3	INTERIOR ELEVATIONS & DETAILS
A4	DETAILS
A5	SPECIFICATIONS
MECHANICAL	
M1	LEGEND, HVAC & PLUMBING FLOOR PLANS
M2	SCHEDULES, SPECIFICATIONS & DETAILS
ELECTRICAL	
E1	SYMBOL LISTS, LUMINAIRE SCHEDULE, NOTES, DETAILS
E2	PARTIAL ONE LINE DIAGRAM
E3	ELECTRICAL FLOOR & ROOF PLANS, PARTIAL DEMOLITION, LIGHTING POWER & SIGNAL PLANS
E4	PANEL SCHEDULES, FIRE ALARM DETAILS
E5	ELECTRICAL SPECIFICATIONS

TEMPORARY INSTALLATIONS

INFECTION CONTROL MEASURES DURING CONSTRUCTION SHALL BE IMPLEMENTED AS REQUIRED BY THE FACILITY'S INFECTION CONTROL STAFF (TITLE 24, PART 1, SECTION T-15). PRIOR TO CONSTRUCTION, ALL REQUIRED TEMPORARY INSTALLATIONS, INCLUDING DETAILS OF INFECTION CONTROL MEASURES SUCH AS TEMPORARY BARRIERS/MEMBRANES, PORTABLE EXHAUST FANS AND TEMPORARY DUCTWORK, MUST BE SHOWN ON THE PLANS OR REVIEWED BY OSHPD FIELD STAFF. TEMPORARY CONSTRUCTION BARRIERS MUST COMPLY WITH CODE APPLICATION NOTICE NO. 9-0705.4. TEMPORARY INSTALLATIONS MUST NOT HAVE A NEGATIVE IMPACT ON EXISTING SYSTEMS NOR CAUSE UNSAFE CONDITIONS. TEMPORARY INSTALLATIONS SHALL MAINTAIN ADEQUATE EGRESS IN COMPLIANCE WITH THE 2013 CBC AND SHALL NOT OBSTRUCT EXISTING EXITS, CREATE A FIRE HAZARD OR REDUCE REQUIRED FIRE RESISTANCE. TEMPORARY VENTILATION SYSTEMS SHALL NOT CAUSE THE AIR BALANCE OF ADJACENT ROOMS OR SPACES TO BE IMPACTED OR ALTER THE PERFORMANCE OF PERMANENT BUILDING VENTILATION SYSTEMS. AIRFLOW MEASUREMENTS SHALL BE TAKEN TO VERIFY ADJACENT ROOMS OR SPACES ARE NOT IMPACTED. (CODE APPLICATION NOTICE NO. 2-34)

DEFERRED APPROVALS

NONE

OSHPD REQUIREMENTS FOR REMODELING

The intent of the construction documents is to reconstruct the hospital building in accordance with the California Building Standards Code. Should any conditions develop not covered by the approved construction documents, wherein the finished work will not comply with the 2013 CBC, a change order detailing and specifying the required work shall be submitted to and approved by OSHPD before proceeding with the work.

Copy of the OSHPD pre-approved documents must be made available at the job site at all times. Installation of pre-approved items must be done in strict accordance with the pre-approved documents. Identify manufacturer's name and model no., if applicable.

Anchorage and supports of all equipment to be installed, as a part of this project shall be detailed on construction documents, except those exempt by 2013 CBC Section 1616A.1.18.

Equipment supports and anchorage shall be approved by the appropriate Design Professional of Record and OSHPD as a part of field reviews/observations. The Inspector of Record (IOR) shall assure that the above requirements are enforced.

Prior to coring or drilling of concrete floor or wall structure, existing reinforcing bars shall be located by non-destructive means. Do not damage existing reinforcing bars in any way, unless so detailed on these plans.

LATERAL FORCE DESIGN CRITERIA FOR NONSTRUCTURAL COMPONENTS & EQUIPMENT
2013 CBC Section 1603.1, Except where allowed by:
Per C.B.C. Section 3412A.2.4, Exception #2 and #3
For existing SPC-1, SPC-2 & NPC 3R buildings, anchorage shall meet the requirements of Section 1630A of the 1995 CBC, with Importance Factor Ip=1.0

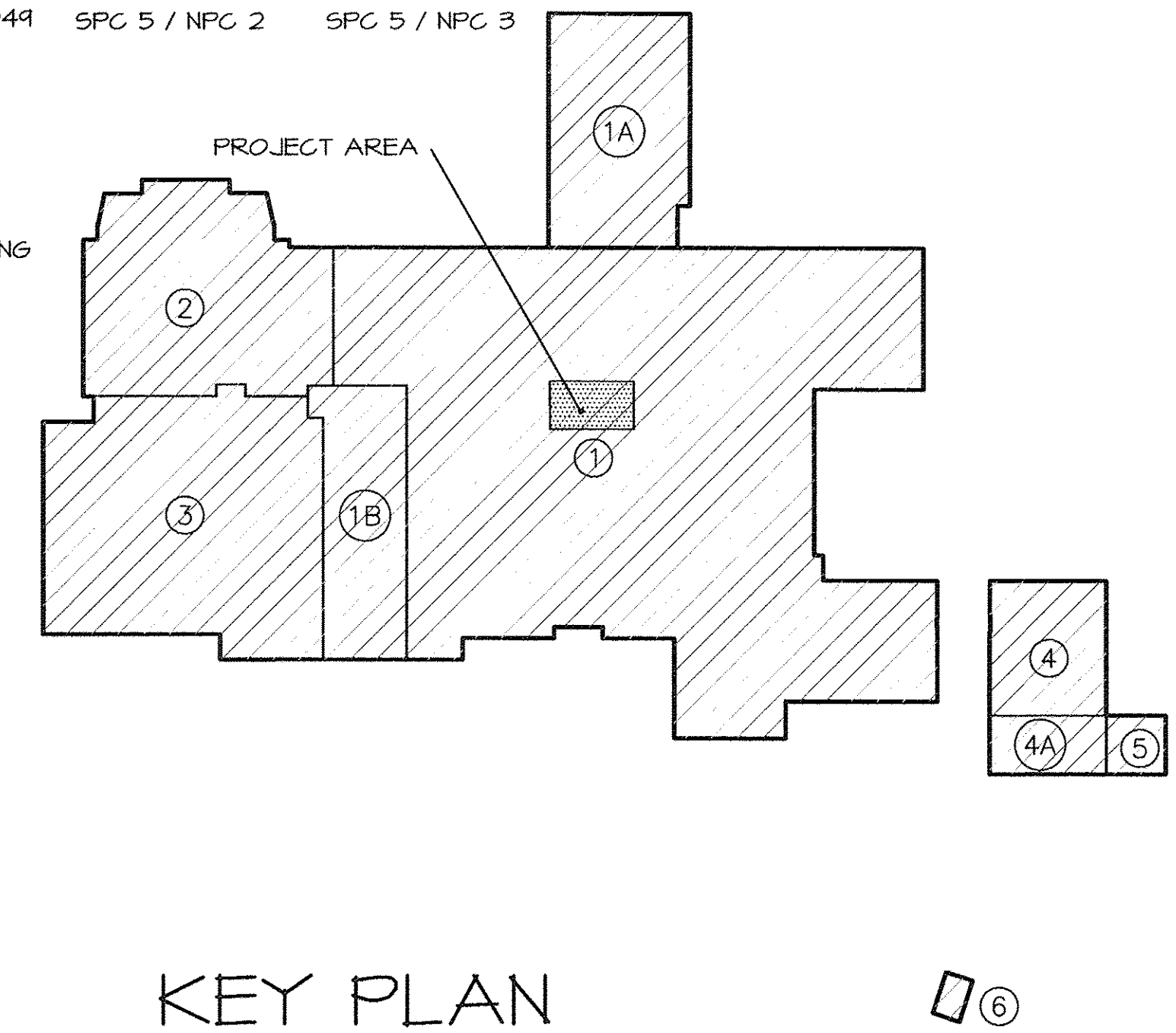
SANTA PAULA HOSPITAL P.A.C.U TOILET VENTURA, CA

	WINDOW TYPE
	DOOR CONSECUTIVE NUMBER
	ROOM CONSECUTIVE NUMBER
	INDICATES DETAIL NUMBER
	SHEET WHERE DETAIL IS DRAWN
	SECTION
	SHEET WHERE DETAIL IS DRAWN
	INTERIOR ELEVATION IDENTIFICATION
	SHEET WHERE INTERIOR ELEVATION IS DRAWN
	NUMBER OF CIRCLE CORRESPONDS TO NUMBER ON NOTE LEGEND
	LETTER IN OVAL CORRESPONDS TO WALL CONSTRUCTION TYPE
	NORTH ARROW, ORIENTATION TO TRUE NORTH
	REVISION CLOUD INDICATES AREA REVISED
	WORK POINT, CONTROL, ELEVATION OR DATUM POINT

	EARTH
	GRAVEL OR CRUSHED ROCK BASE
	ASPHALTIC CONCRETE PAVING
	CONCRETE
	MASONRY
	PLYWOOD
	WOOD, ROUGH OR DIM. LUMBER
	INSULATION
	PLASTER
	GYPSUM WALL BOARD

KEY PLAN No.	YEAR BUILT	OSHPD PERMIT	CURRENT SPC/NPC CATEGORY	FINAL SB-1953 STATUS 2030 DECOMMISSIONED
1	1960	N/A	SPC 1 / NPC 2	SPC 2 / NPC 3R
1A	1965	N/A	SPC 1 / NPC 2	SPC 2 / NPC 3R
1B	1965	N/A	SPC 1 / NPC 2	SPC 2 / NPC 3R
2	1968	N/A	SPC 1 / NPC 2	SPC 2 / NPC 3R
3	1974	H-0256	SPC 5 / NPC 2	SPC 5 / NPC 3
4	1974	H-0256	SPC 5 / NPC 2	SPC 5 / NPC 3
4A	1985	HL-859907	SPC 5 / NPC 2	SPC 5 / NPC 3
5	1991	HL-909954	SPC 5 / NPC 2	SPC 5 / NPC 3
6	1984	HL-830049	SPC 5 / NPC 2	SPC 5 / NPC 3

LEGEND
 ACUTE CARE HOSPITAL BUILDING



KEY PLAN

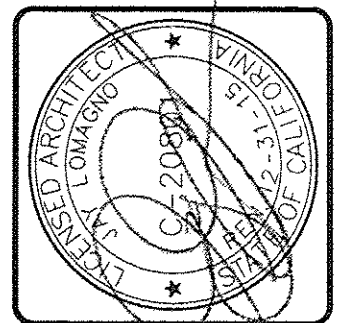
LIST OF SYMBOLS

MATERIALS LEGEND

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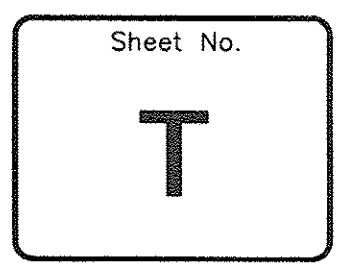
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Sheet Title	TITLE SHEET
Revisions	
R&A No.	900825
Date	05/08/14
Drawn	XX
Checked	XX
Consult	No.

P.A.C.U. TOILET
SANTA PAULA HOSPITAL
825 NORTH 10TH STREET
SANTA PAULA, CA



O.S.H.P.D. PROJECT #S141690-56

COUNTY OF VENTURA
PUBLIC WORKS AGENCY
ENGINEERING SERVICES DEPARTMENT

HEALTH CARE AGENCY DEPUTY DIRECTOR

PROJECT MANAGER DIRECTOR

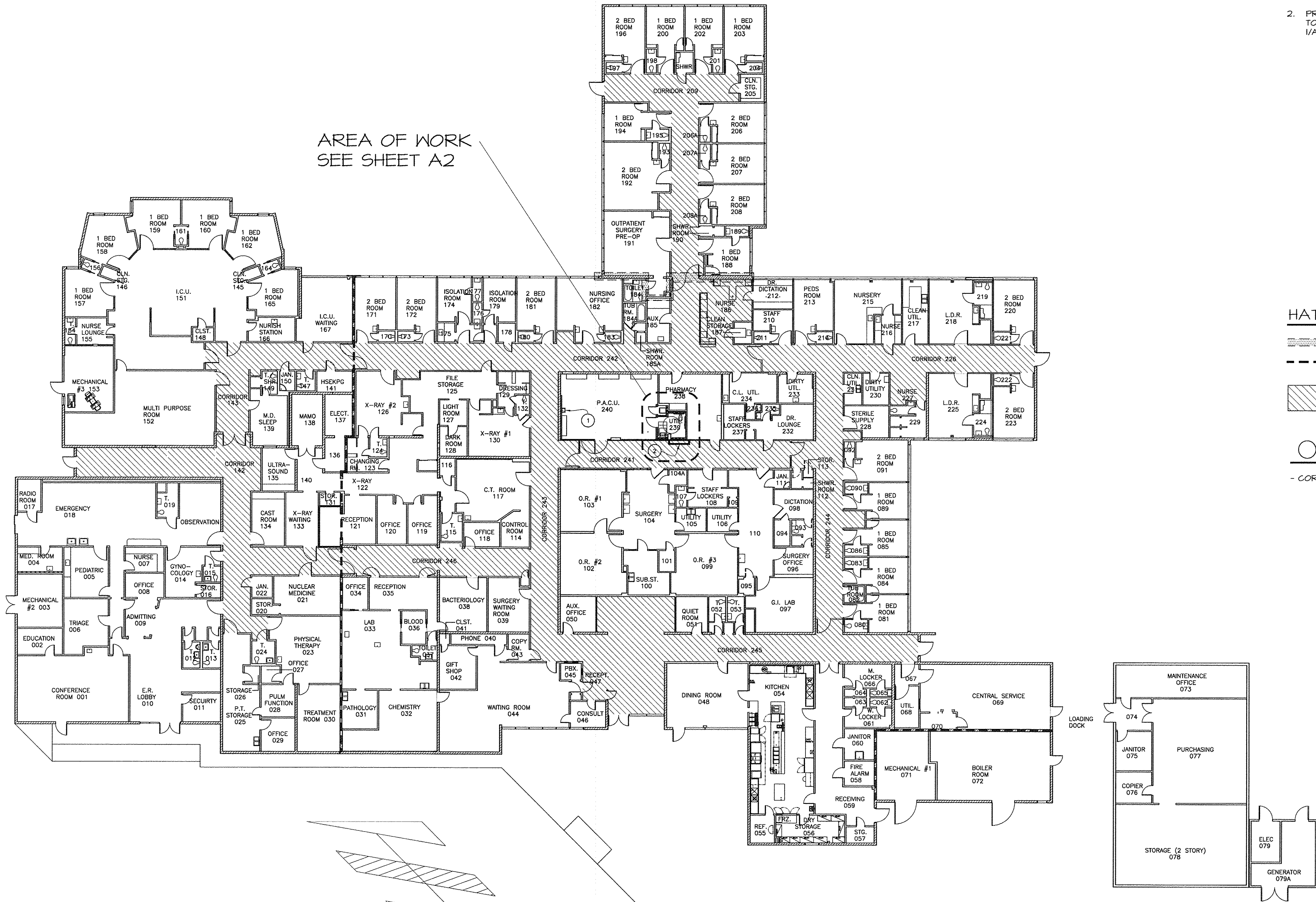
SPEC. NUMBER SHEET 1 OF 13

PROJECT NUMBER DRAWING NUMBER

FOR COMPLIANCE WITH TITLES 18 AND 24 CALIFORNIA CODE OF REGULATIONS, FINAL APPROVALS SUBJECT TO FIELD INSPECTION
DATE: 8/18/14

FILE PATH & NAME: P:\900825 SPH PACU\DRAWINGS\A1 A2.DWG PLOTTED: 12:25 PM

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NOTE LEGEND

- 1 EXISTING P.A.C.U. HANDWASH SINK TO REMAIN.
- 2 PROVIDE TEMPORARY CONSTRUCTION BARRIERS AS NEEDED TO MAINTAIN CORRIDOR PROTECTION. INSTALL PER DETAIL 1/42. COORDINATE INSTALLATION WITH OSHPD FIELD STAFF.

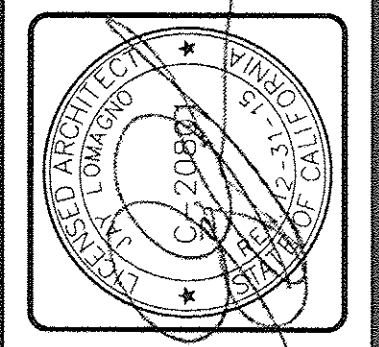
HATCH LEGEND

- SMOKE SEPARATION
- TWO HOUR RATED AREA/SMOKE SEPARATION
- FIRE RATED CORRIDOR WITH PROTECTED OPENING

GENERAL NOTES

- CORRIDOR SHALL NOT BE OBSTRUCTED DURING CONSTRUCTION.

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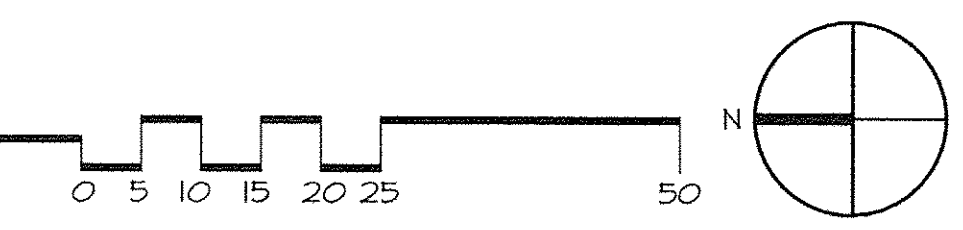


Sheet Title	OVERALL FLOOR PLAN
Revisions	
RAA No:	900825
Date:	08/08/14
Drawn:	XX
Checked:	X.X.
Consult. No:	

P.A.C.U. TOILET
SANTA PAULA HOSPITAL
 825 NORTH 10TH STREET
 SANTA PAULA, CA

Sheet No.
A1

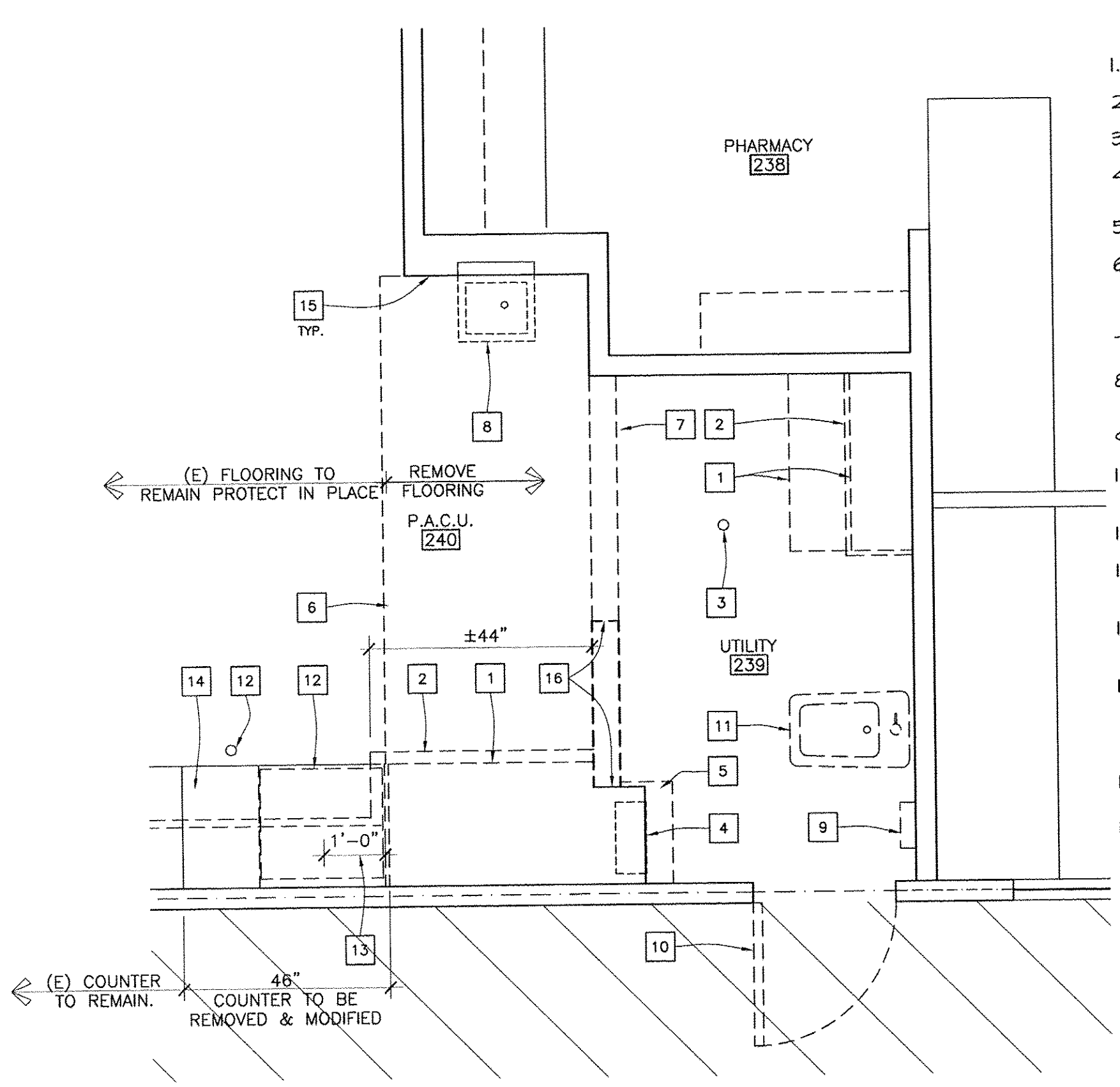
FLOOR PLAN
 SCALE 1/16" = 1'-0"



O.S.H.P.D. PROJECT #S141690-56		COUNTY OF VENTURA PUBLIC WORKS AGENCY ENGINEERING SERVICES DEPARTMENT	
Office of Statewide Planning and Development Facilities Development Division * REVIEWED * FOR COMPLIANCE WITH TITLES 18 AND 84 CALIFORNIA CODE OF REGULATIONS, FINAL APPROVAL IS SUBJECT TO THE PROFESSIONAL BY <i>[Signature]</i> DATE 8/18/14		PROJECT MANAGER	
SPEC. NUMBER	SHEET 2 OF 13	PROJECT NUMBER	
DRAWING NUMBER			

FILE PATH & NAME: P:\900825 SPH PACU\DRAWINGS\A1 A2.DWG PLOTTED: 2:06 PM

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PARTIAL DEMOLITION PLAN

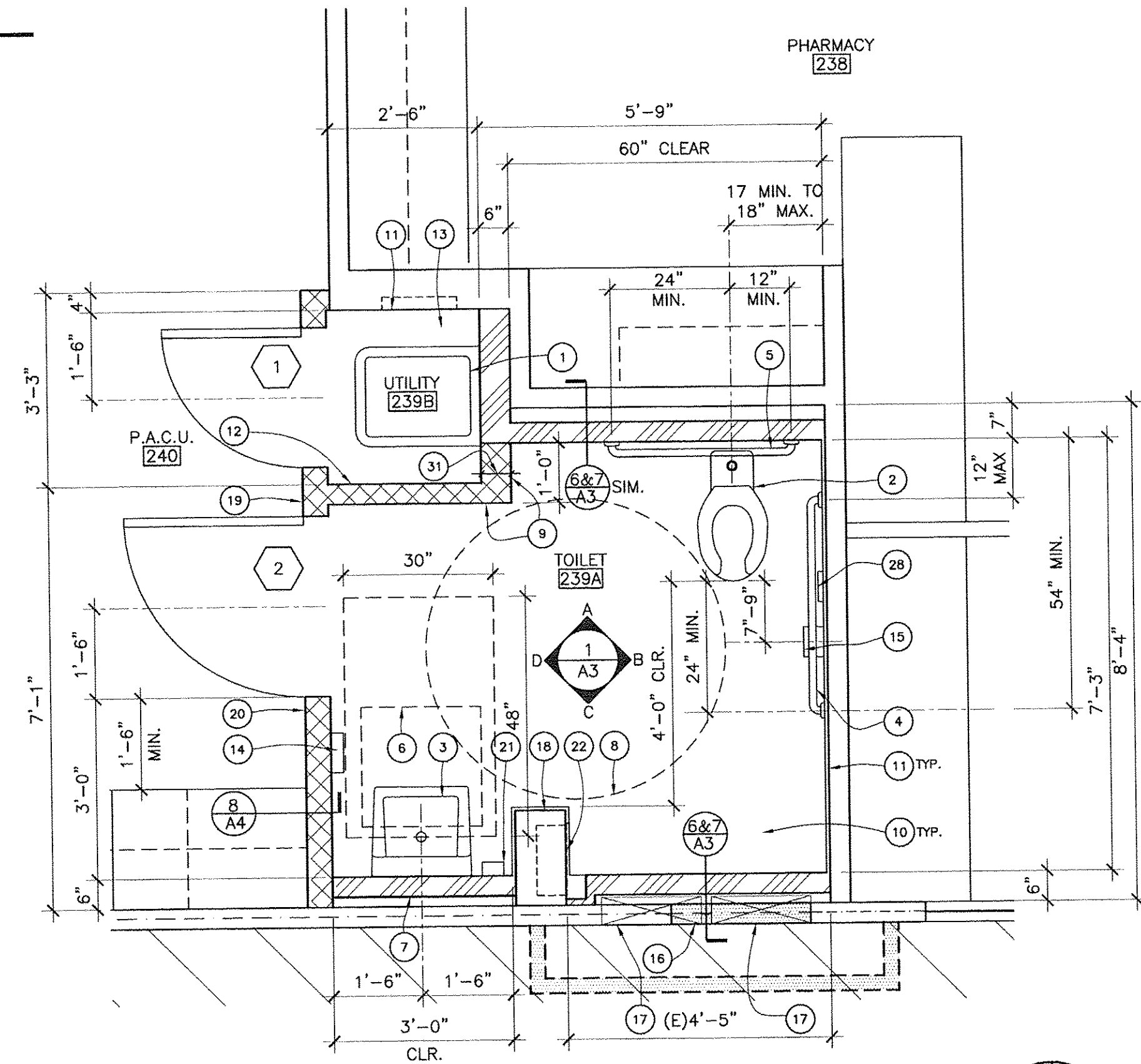
SCALE 1/2" : 1'-0"

DEMOLITION GENERAL NOTE:

SAW CUT EXISTING 4" CONCRETE SLAB ON GRADE FOR INSTALLATION OF UTILITIES SHOWN ON SHEET M1. CONTRACTOR SHALL TAKE PRECAUTIONS TO LOCATE EXISTING ELECTRICAL CONDUIT OR OTHER UTILITIES BURIED IN THE EXISTING SLAB AND WORK AROUND THEM OR NOTIFY THE ARCHITECT FOR FURTHER DIRECTION. SEE DETAIL 5/A4 FOR BACKFILL AND SLAB REPAIR.

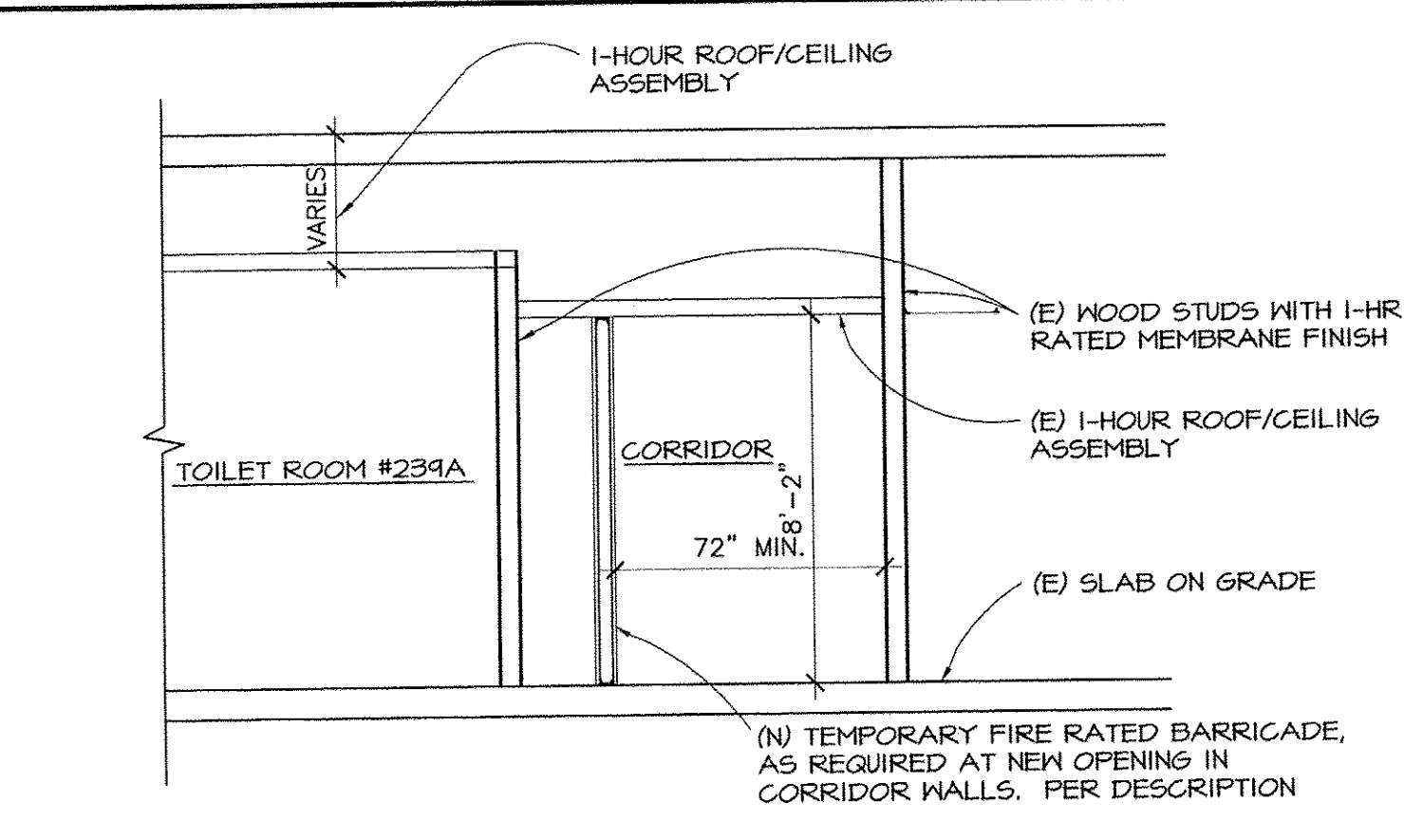
DEMOLITION NOTE LEGEND

- EXISTING CABINETRY TO BE REMOVED.
- EXISTING SOFFIT ABOVE CABINET TO BE REMOVED.
- EXISTING FIRE SPRINKLER TO REMAIN.
- EXISTING ELECTRICAL PANEL TO BE MODIFIED. SEE ELECTRICAL FOR MORE INFORMATION.
- EXISTING PLYWOOD CABINET TO BE REMOVED.
- LINE OF EXISTING SHEET VINYL FLOOR TO BE REMOVED TO EXPOSE CONCRETE OR OTHER SOLID SUBSTRATE. PREPARE SUBSTRATE TO RECEIVE NEW FLOOR FINISH.
- EXISTING HEADER TO BE REMOVED SEE WALL FRAMING PLAN 10/A4.
- EXISTING S.S. SINK / MIRROR / TOWEL DISPENSER UNIT TO BE REMOVED.
- EXISTING WALL BOX TO BE REMOVED.
- EXISTING DOOR, FRAME AND HARDWARE TO BE REMOVED. SEE WALL FRAMING DETAIL 4/A4.
- EXISTING CLINIC SINK AND BASE TO BE REMOVED.
- UNDERCOUNTER REFRIGERATOR TO REMAIN. THIS APPLIANCE MAY BE TEMPORARILY RELOCATED AS NEEDED DURING CONSTRUCTION.
- REMOVE AND MODIFY EXISTING PORTION OF UPPER CABINETRY TO FIT BETWEEN NEW WALL AND EXISTING CABINETS.
- REMOVE PORTION OF EXISTING P-LAM COUNTER TOP AND MODIFY OR REPLACE IN KIND TO FIT BETWEEN EXISTING CABINET EDGE AND NEW WALL. SCRIBE TO NEW WALL AND PROVIDE 2" P-LAM SPLASH TO MATCH (E) P-LAM FINISH.
- EXISTING VINYL WALL COVERING TO BE REMOVED TO EXTENT OF PROPOSED UTILITY CLOSET #239B AND TOILET ROOM #240.
- PATCH WALL AND CEILING AT LOCATIONS (E) WALL AND HEADER ARE SCHEDULED TO BE REMOVED.



PARTIAL FLOOR PLAN

SCALE 1/2" : 1'-0"

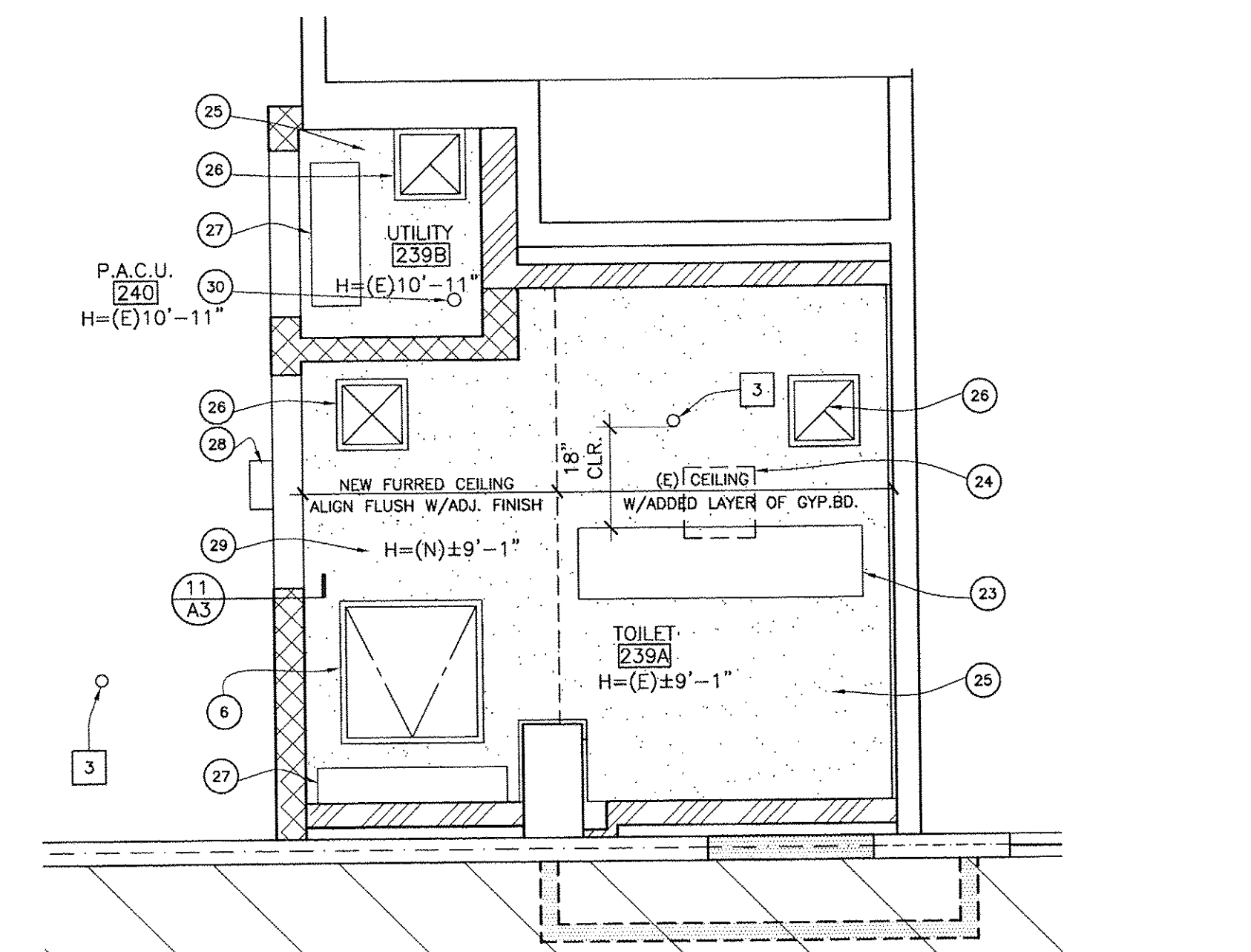


TYP. EXISTING CORRIDOR CONSTRUCTION & TEMP. BARRICADE

NOT TO SCALE

REQUIREMENTS FOR OPENINGS AND PENETRATIONS AT RATED CONSTRUCTION

- PENETRATIONS:** ANY NEW PENETRATIONS THROUGH CORRIDOR WALLS, BUILDING/SMOKE SEPARATION WALLS, OR FLOOR/ROOF STRUCTURAL DECKS SHALL BE FIRESTOPPED; SEE DETAILS AT MECHANICAL AND ELECTRICAL DRAWINGS.
- CORRIDOR CONSTRUCTION OPENINGS:** ANY OPENINGS IN THE EXISTING CORRIDOR WALL DURING THE CONSTRUCTION PROCESS SHALL BE PROTECTED BY A TEMPORARY BARRICADE. TEMPORARY BARRICADE SHALL BE ONE-HOUR RATED CONSTRUCTION; OPTION 1: 2-1/2" X 25 GAUGE USS SHAFTWALL STUDS AT 24" O.C. WITH 1" GYPSUM SHAFTH LINER ONE SIDE, AND 5/8" TYPE X GYPSUM BOARD ONE SIDE (1-HOUR RATING PER NER 250); OPTION 2: 2-1/2" X 20 GAUGE STUDS AT 24" O.C. WITH 5/8" TYPE X GYPSUM BOARD BOTH SIDES (1 HOUR-RATING PER GYPSUM ASSOC. WP 1340). FASTEN SILL TRACK TO FLOOR WITH SHOT PINS AT 32" O.C. RAMSET 1500 SERIES (1/4" DIA.) WITH 1-1/4" EMBEDMENT, ICC ESR #1191. FASTEN METAL FRAMING WITH #8 SCREWS AT 24" O.C. BARRICADE DOORS SHALL BE 20 MINUTE "S" RATED ASSEMBLIES, SELF-CLOSING WITH SMOKE AND DRAFT SEALS.
- COORDINATE WITH OSHPD FIELD FIRE & LIFE SAFETY OFFICER PRIOR TO CONSTRUCTION / INSTALLATION OF TEMPORARY BARRICADES.



PARTIAL REFLECTED CEILING PLAN

SCALE 1/2" : 1'-0"

NOTE LEGEND

- WALL HUNG CLINIC SINK. SEE MECHANICAL DRAWINGS.
- WALL HUNG WATER CLOSET. SEE MECHANICAL DRAWINGS.
- LAVATORY. SEE MECHANICAL DRAWINGS.
- 1-1/2" DIAMETER X 42" GRAB BAR AT +33" A.F.F. PROVIDE 2 X WOOD BACKING WITHIN (E) WOOD FRAMED WALL.
- 1-1/2" DIAMETER X 36" GRAB BAR AT +33" A.F.F. PROVIDE 10 GA. STUDS AND BACKING PLATES PER DETAIL 5/A3.
- 24" X 24" 1 HR RATED METAL ACCESS PANEL MODEL FR-DW-820 BY "THE WILLIAMS BROS. CORP." (UL NFM R-10364) OR APPROVED EQUAL. INSTALL IN NEW FURRED CEILING PER MANUFACTURERS DETAILS TO ACHIEVE 1 HR LISTING. LINE ROUGH-OPENING WITH ONE LAYER OF 5/8" TYPE "X" GYP. BD. PAINT TO MATCH SCHEDULE CEILING COLOR. HEAD-OUT EXISTING CEILING FRAMING ABOVE HATCH AS NEEDED FOR ACCESS TO ATTIC SPACE.
- 16 GAUGE METAL STUDS AT THIS SECTION OF WALL FURRING FOR WALL HUNG LAVATORY.
- 60" DIAMETER CLEAR TURNING CIRCLE FOR WHEELCHAIR ACCESS.
- 4 X 4 GLAZED CERAMIC WALL TILE WAINSCOT OVER THIN SET OVER EXISTING WALLS OR NEW GYPSUM BOARD. (TYPICAL FOR ALL WALLS IN TOILET ROOM #239A)
- PATCH EXISTING WALL WHERE FIXTURE (OR OTHER MISC. ITEM) IS REMOVED WITH ONE LAYER OF 5/8" TYPE X GYPSUM WALL BOARD OVER 20 GA. METAL INFILL STUDS.
- FRP WAINSCOT FROM FLOOR TO 4'-0" A.F.F. ON ALL WALLS OF UTILITY CLOSET. SEE SPEC SHEET A5.
- SHEET VINYL FLOOR WITH SELF COVING BASE TO MATCH EXISTING PACU. FLOOR FINISH. COVE BASE TO LAP OVER RFP. FINISH EDGE WITH MANUFACTURERS TRIM.
- PAPER TOWEL DISPENSER.
- TOILET PAPER DISPENSER.
- INFILL RATED WALL AS NOTED IN WALL LEGEND AND DET. 4/A4. FINISH WALL IN CORRIDOR TO MATCH EXISTING ADJACENT VINYL WALL COVERING. PROVIDE 6" HIGH RUBBER BASE TO MATCH (E) ADJACENT BASE.
- ELECTRICAL PANEL. SEE ELECTRICAL DRAWING.
- PATCH WALL AND CEILING AT LOCATIONS (E) WALL AND HEADER ARE SCHEDULED TO BE REMOVED.
- 6" RUBBER WALL BASE TO MATCH EXISTING ADJACENT BASE.
- VINYL WALL COVERING TO APPROX. 60" A.F.F. (ALIGN WITH EXISTING) FINISH PORTION OF WALL ABOVE VINYL TO MATCH EXISTING TEXTURE AND COLOR.
- SOAP DISPENSER
- MODIFY ELECTRIC PANEL ENCLOSURE DOOR FOR ACCESS.
- RELOCATED LIGHT FIXTURE PER ELECTRICAL DRAWINGS.
- REMOVE EXISTING AIR DISTRIBUTION REGISTER AND PATCH CEILING WITH 5/8" TYPE "X" GYP. BD.
- ADD ONE LAYER OF 5/8" TYPE "X" GYP. BD. TO EXISTING CEILING FINISH TO COMPLETE ROOF/CEILING ASSEMBLY PER TABLE T20.(3) ITEM #21-I.I. TEXTURE AND PAINT TO MATCH CEILING IN PACU AREA.
- AIR DISTRIBUTION REGISTER PER SHEET M1.
- LIGHT FIXTURE PER SHEET E3.
- EMERGENCY NURSE CALL DEVICE PER SHEET E3.
- TWO LAYERS OF 5/8" TYPE "X" GYPSUM BOARD ROOF/CEILING ASSEMBLY PER CBC TABLE T20.(3) ITEM #21-I.I. TEXTURE & PAINT TO MATCH CEILING IN PACU AREA.
- NEW SPRINKLER HEAD PER SHEET M1.
- 6" METAL STUDS PER WALL LEGEND.

WALL LEGEND

- EXISTING NON-RATED WALLS TO REMAIN
- EXISTING 1 HOUR RATED CORRIDOR WALL WITH PROTECTED OPENINGS. 8" THICK FULLY GROUTED CONCRETE MASONRY UNITS WITH GYPSUM PLASTER EACH SIDE. RATING PER ITEM 3-1.2 OF CBC TABLE T20.1
- EXISTING 1 HOUR RATED CORRIDOR WALL WITH PROTECTED OPENINGS. 2x4 WOOD STUDS AT 16" O.C. WITH 1/2" GYPSUM PLASTER OVER 3/8" PERFORATED GYPSUM LATH EACH SIDE. RATING PER ITEM 12-1.3 OF CBC TABLE T20.1
- RATED WALL INFILL. 1 HOUR PARTITION. 2x4 MIN. WOOD STUDS @ 16" O.C. WITH ONE LAYER 5/8" TYPE "X" GYPSUM BOARD EACH SIDE. RIP STUDS TO THICKNESS SUCH THAT FINISH SURFACE ALIGNS WITH ADJACENT WALLS. RATING PER ITEM 14-1.3 OF CBC TABLE T20.1
- NON RATED WALL 3-5/8" (OR 6") X 20 GAUGE METAL STUDS WITH ONE LAYER 5/8" GYPSUM BOARD EACH SIDE.
- NON RATED WALL FURRING. 3-5/8" X 20 GAUGE METAL STUDS WITH ONE LAYER 5/8" TYPE "X" GYPSUM BOARD.
- EXISTING NON-STRUCTURAL PARTITIONS TO BE REMOVED
- TEMPORARY PARTITION. SEE DETAIL 1/A2.

DOOR SCHEDULE

- | | |
|---|--|
| 1 | NEW 2'-4" X 7'-0" WOOD DOOR AS FOLLOWS:
DOOR: 1-3/4" SOLID CORE (1 PLY), PER SPEC SHEET A5.
HARDWARE: "SCHLAGE" PASSAGE LEVER LATCHSET RHODES D405 626
"STANLEY" 1-1/2" PR. BUTTS FBB174 4-1/2" X 4-1/2" 652
"GLYNN-JOHNSON" OVERHEAD DOOR STOP SERIES 4505.
SIGNAGE: N/A
(ALSO SEE DETAIL 4/A3) |
|---|--|

- | | |
|---|---|
| 2 | NEW 3' X 7' WOOD DOOR AS FOLLOWS:
DOOR: 1-3/4" SOLID CORE (1 PLY), PER SPEC. SHEET 5
HARDWARE: "SCHLAGE" PRIVACY LOCK LEVER LATCHSET RHODES D405 626
"STANLEY" 1-1/2" PR. BUTTS FBB174 4-1/2" X 4-1/2" 652
"LGN" CLOSER 4041 CUSH-N-STOP, ALUMINUM FINISH.
"HAGER" FLOOR STOP 241F 626
SIGNAGE: ADA UNISEX DOOR SIGN BY "NATIONAL CONSTRUCTION SPECIALTIES" OR EQUAL, BLUE BACKGROUND WITH WHITE GRAPHICS MODEL #SBH12U. MOUNT AT 60" A.F.F. TO CENTER OF SIGN
ADA UNISEX WALL SIGN BY "NATIONAL CONSTRUCTION SPECIALTIES" OR EQUAL, BLUE BACKGROUND WITH WHITE GRAPHICS AND GRADE 2 BRAILLE. MODEL # SB444. MOUNT AT 60" A.F.F. TO CENTER OF SIGN.
(ALSO SEE DETAILS 4/A3, 10/A3 & 2/A3) |
|---|---|

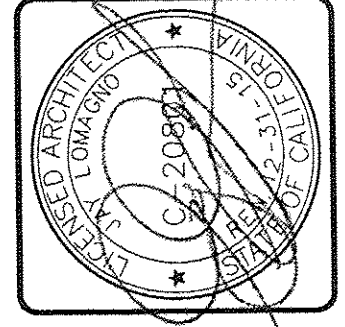
O.S.H.P.D. PROJECT #S141690-56

COUNTY OF VENTURA
PUBLIC WORKS AGENCY
ENGINEERING SERVICES DEPARTMENT

City of Santa Paula Planning & Development
Facilities Development Division
*** REVIEWED ***
FOR COMPLIANCE WITH THE 19 AND 24 CALIFORNIA
CODE OF REGULATIONS. FINAL APPROVALS SUBJECT TO
FILE INCORPORATION
BY: [Signature] DATE: 8/18/14

PROJECT MANAGER	
SPEC. NUMBER	SHEET 3 OF 13
PROJECT NUMBER	DRAWING NUMBER

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 Architecture
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 21 S. California Street
 Fourth Floor
 Santa Paula, California 93001
 (805) 848-1234

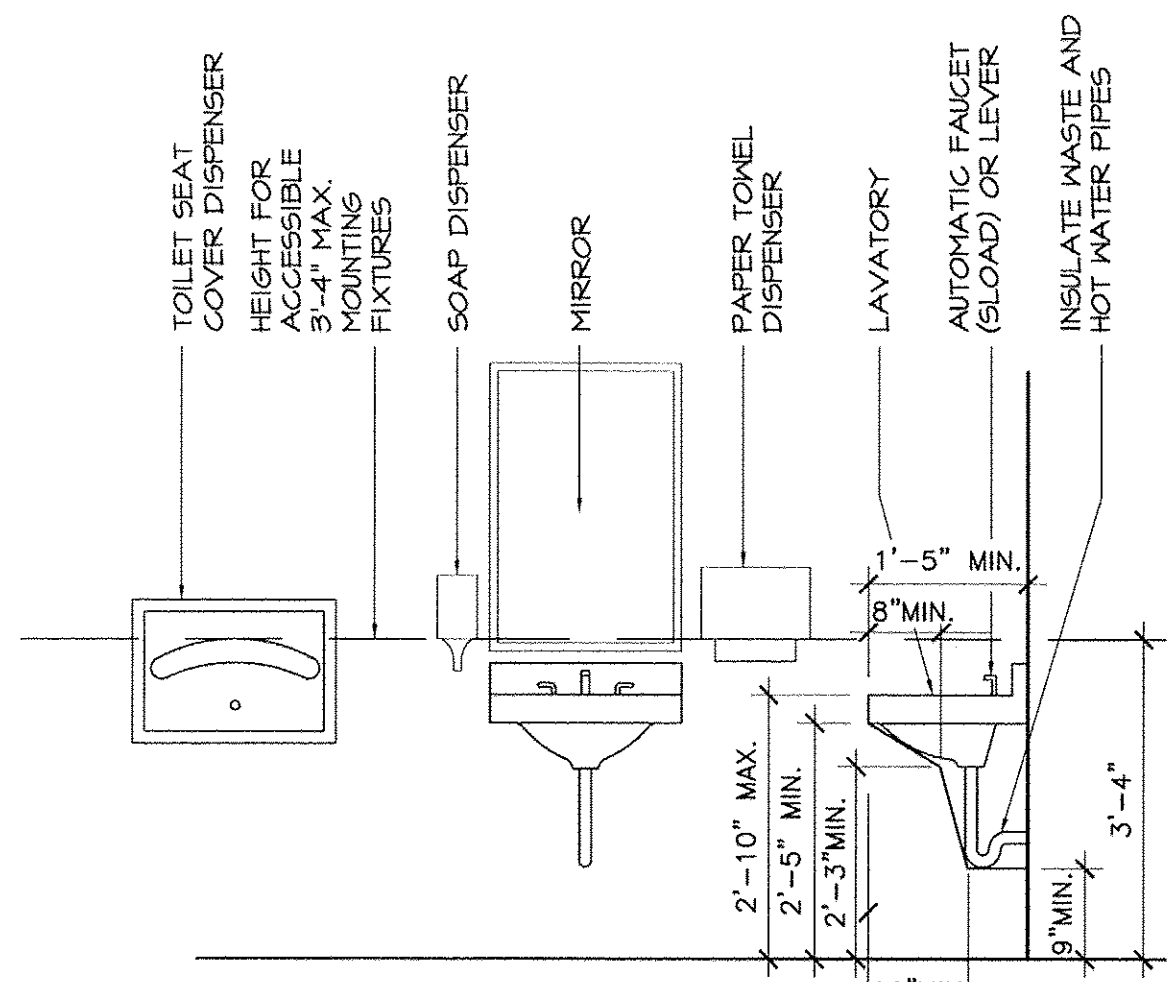


Sheet	PARTIAL DEMO FLOOR
Title	AND REFD CLG. PLANS
Revisions	
R&A No:	900825
Date:	08/08/14
Drawn:	XX
Checked:	XX
Consult:	XX

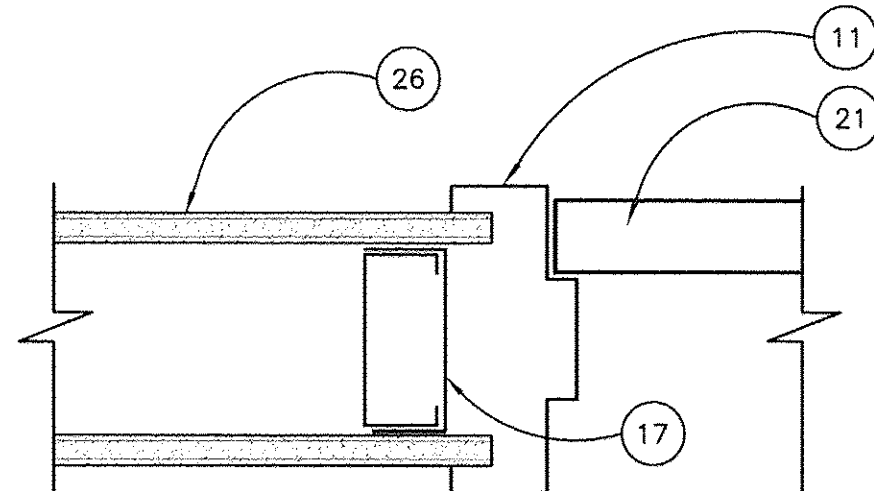
P.A.C.U. TOILET
SANTA PAULA HOSPITAL
 825 NORTH 10TH STREET
 SANTA PAULA, CA

Sheet No.
A2

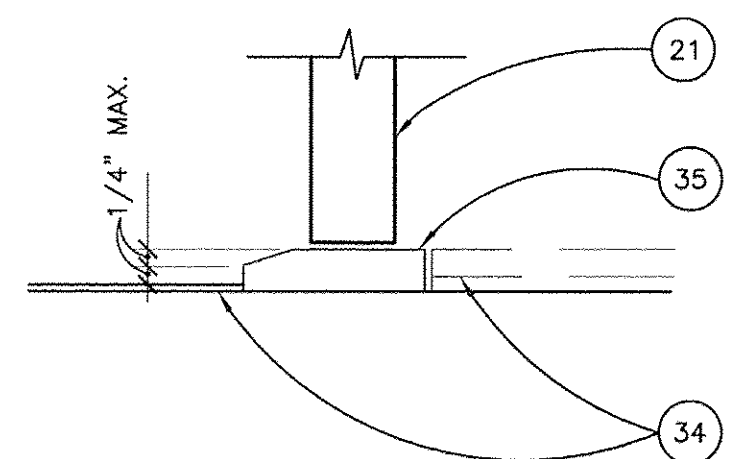
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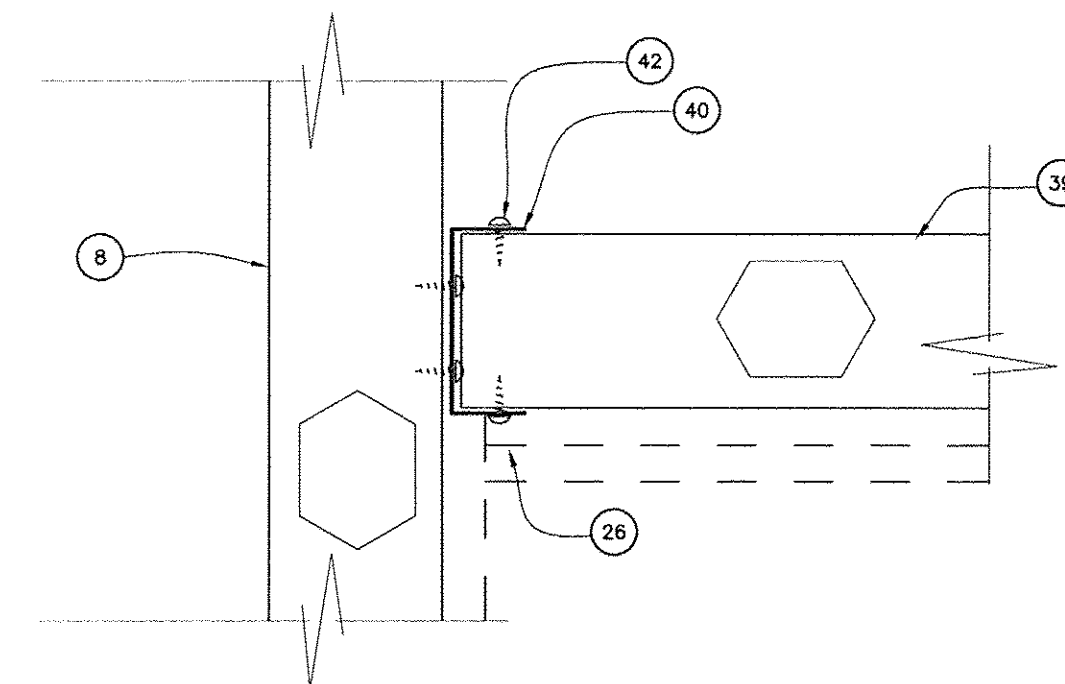
8 ACCESSIBLE RESTROOM FIXTURES
NOT TO SCALE



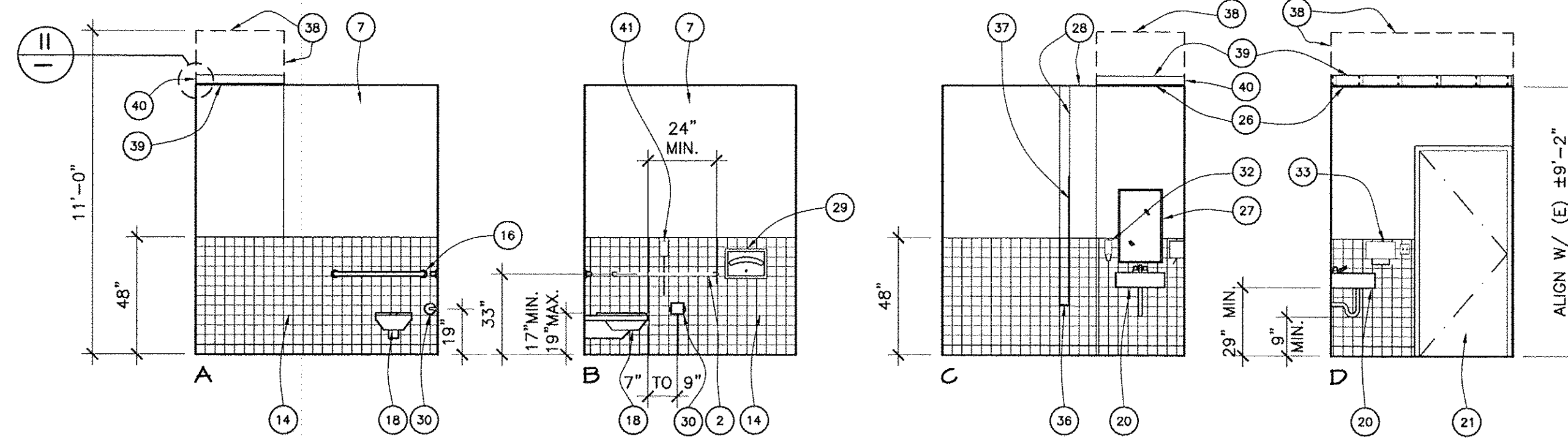
9 NON-RATED DOOR FRAME JAMB (HEAD SIM.)
SCALE 3" = 1'-0"



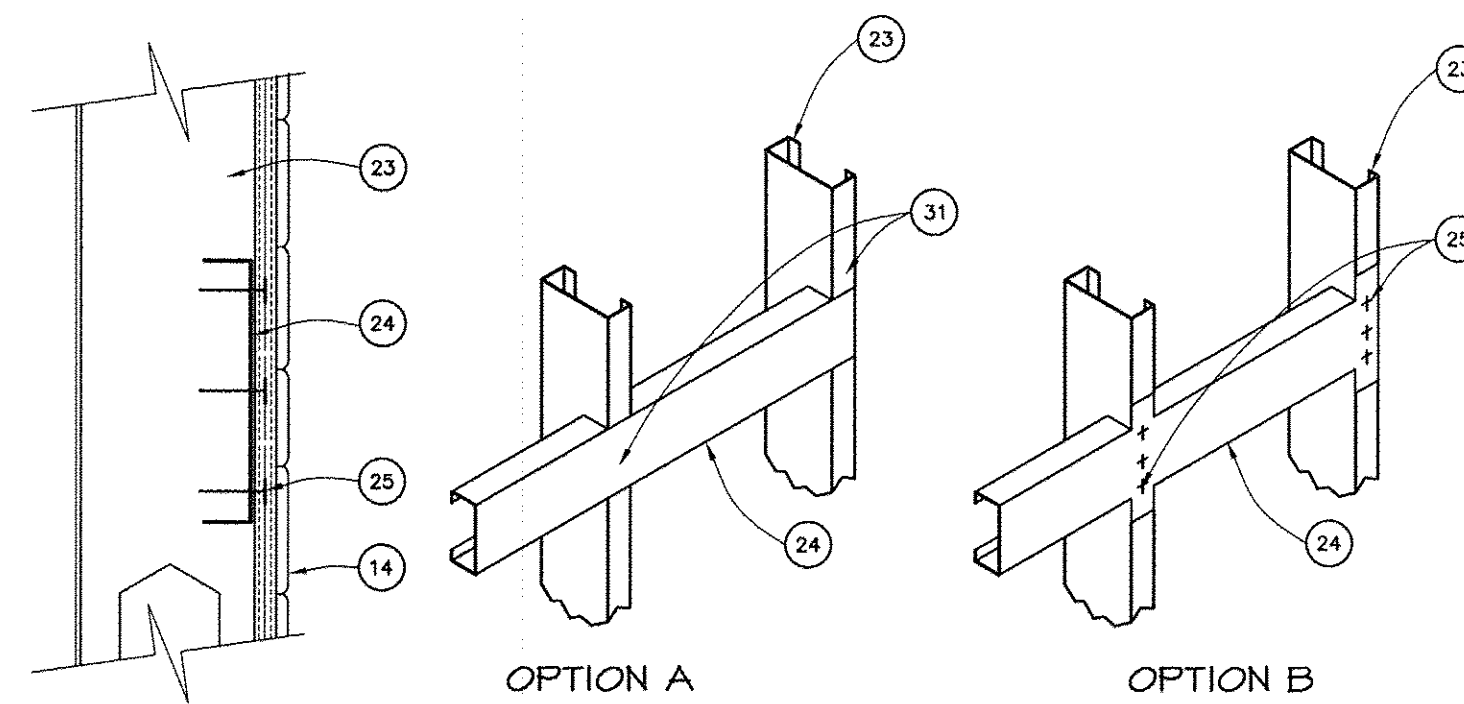
10 DOOR THRESHOLD
SCALE 3" = 1'-0"



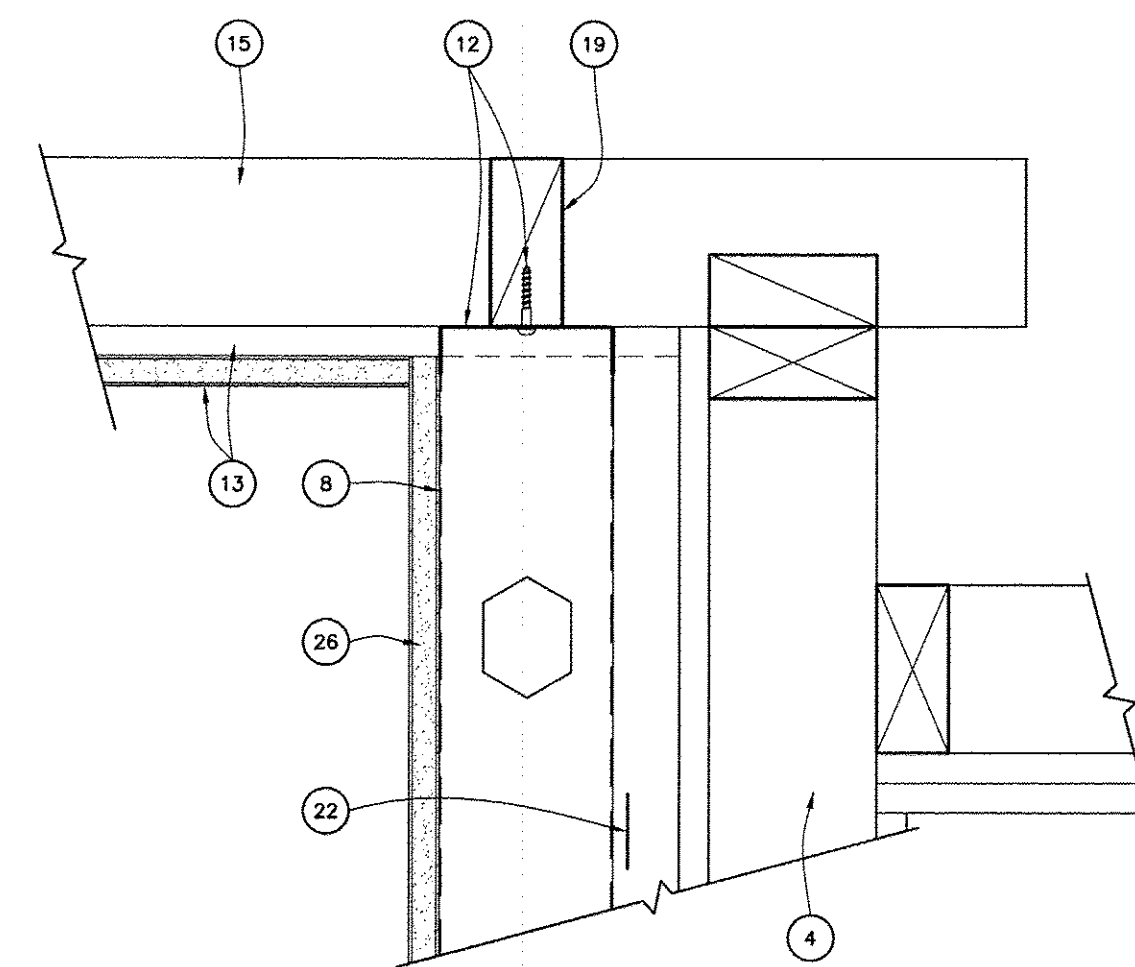
11 CEILING CONNECTION
SCALE: 3" = 1'-0"



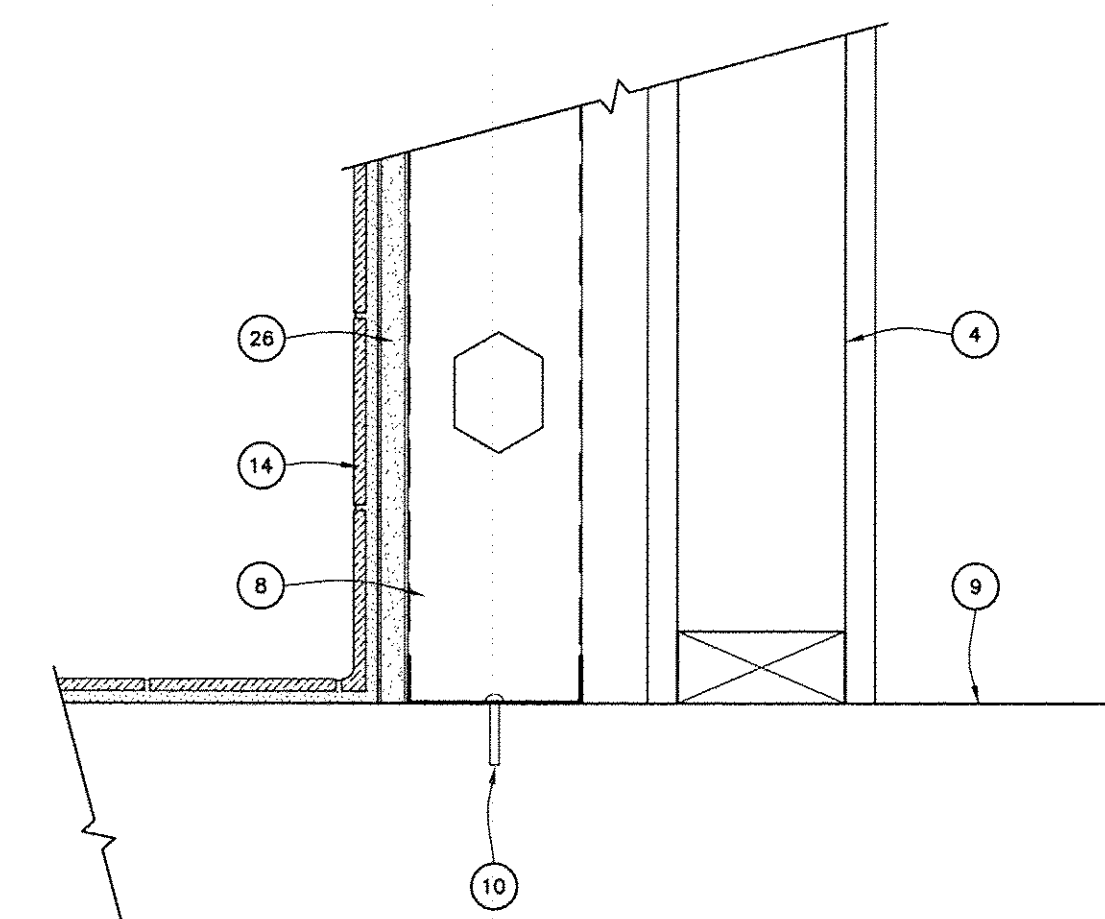
1 TOILET - 239A
1/4" = 1'-0"



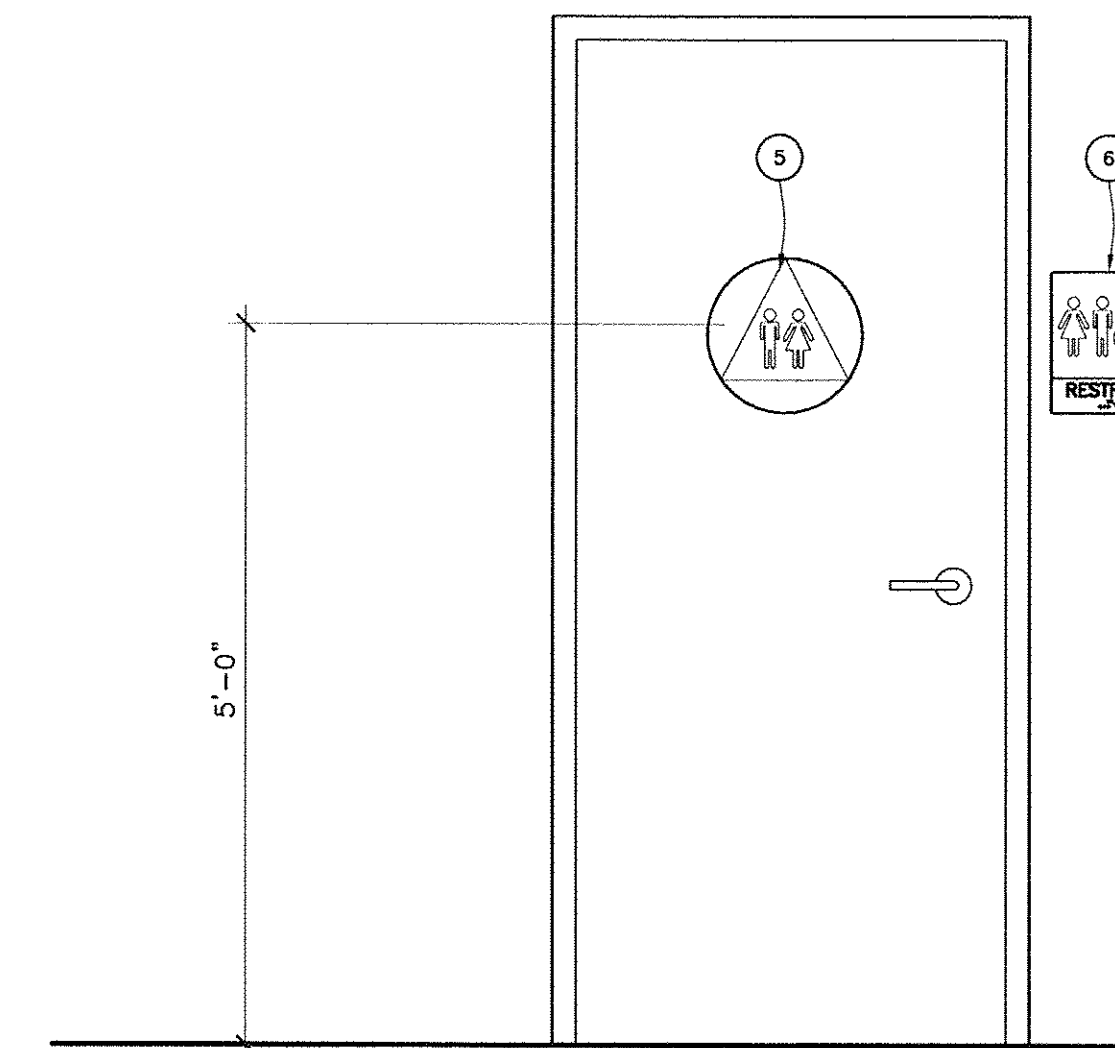
5 BACKING PLATE
SCALE: 3" = 1'-0"



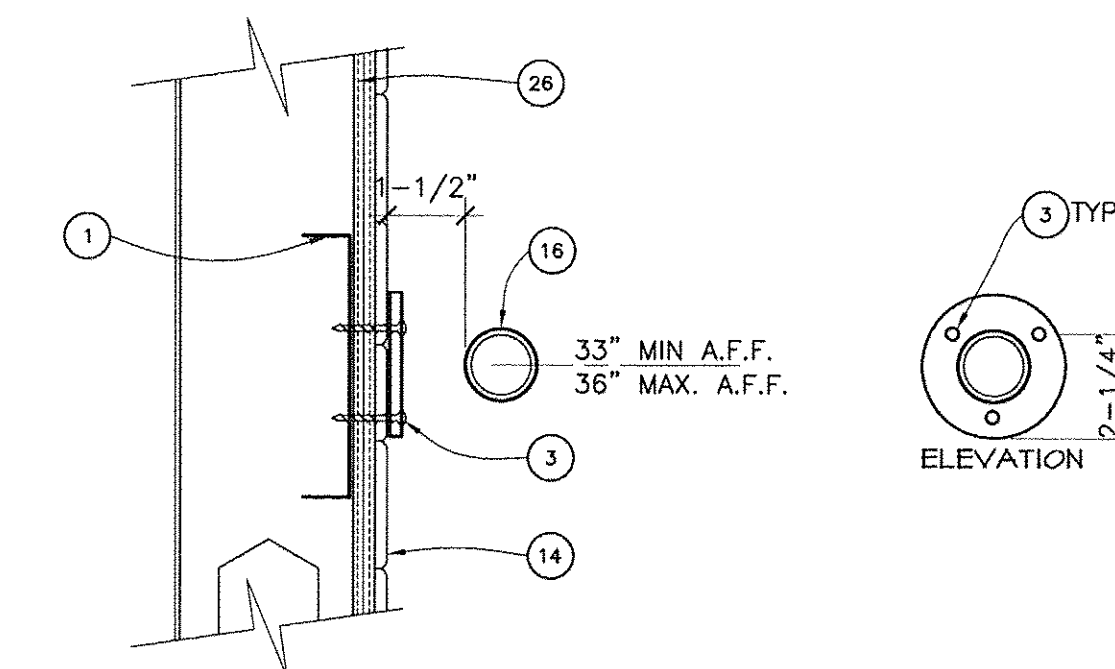
6 FURRING WALL TOP CONNECTION
SCALE: 3" = 1'-0"



7 FURRING WALL BOTTOM CONNECTION
SCALE: 3" = 1'-0"

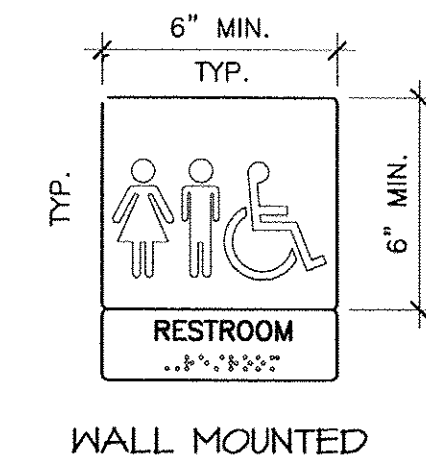


2 TOILET SIGN LOCATIONS
NOT TO SCALE



3 GRAB BAR
SCALE: 3" = 1'-0"

- SIGNS SHALL BE MATTE FINISH PLASTIC, WHITE GRAPHICS ON CONTRASTING BACKGROUND.
- WALL MOUNTED SIGN TEXT SHALL BE BETWEEN 5/8" - 2" HIGH, AND SHALL BE RAISED 1/32".
- WALL MOUNTED SIGNS SHALL HAVE GRADE 2 BRAILLE.



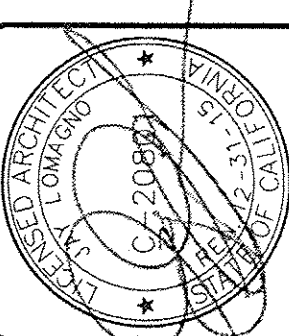
4 TOILET ROOM SIGNS
NOT TO SCALE

NOTE LEGEND

- 50 KSI, 16 GA. BACKING TRACK WELDING PER DETAIL 5, OPTION B, THIS SHEET
- 1-1/2" DIAMETER x 42" GRAB BAR PER DETAIL 3/A3 AT +33 A.F.F. REMOVE EXISTING WALL FINISH TO EXPOSE FRAMING AT ATTACHMENT. PROVIDE 2 x 6 WOOD BLOCKING BETWEEN EXISTING WOOD STUDS.
- (3) #14 SCREWS
- EXISTING 1 HOUR RATED CORRIDOR CONSTRUCTION
- DOOR MOUNTED SIGN, CENTERED ON DOOR. SIGN PER DETAIL 4/A3.
- WALL MOUNTED SIGN, LOCATED ADJACENT TO STRIKE SIDE OF DOOR AT 60" ABOVE F.F.L. SIGN PER DETAIL 4/A3.
- (E) FULL HEIGHT WALL
- 3-5/8" x 20 GA. METAL STUD FRAMED FURRING WALL.
- (E) CONCRETE FLOOR SLAB.
- FASTEN TRACK TO CONCRETE WITH SHOT PINS. RAMSET 150B SHOT PINS .145" DIA. EMBEDMENT AT 16" O.C. AND 6" MAX FROM END OF TRACK PER ICG ESR 1749. ALSO SEE NOTE #4 SHEET A4.
- 16 GA. HOLLOW METAL DOOR FRAME.
- FASTEN 16 GA. TOP TRACK TO PERPENDICULAR (N) CEILING BLOCKING AT 16" O.C. WITH #14 SCREWS.
- EXISTING GYP. BD CEILING TO REMAIN. ADD ONE LAYER OF 5/8" TYPE "X" GYP. BD. PER CBC TABLE T20.(3) ITEM #21-1.1 TO COMPLETE 1 HR. ROOF/CEILING ASSEMBLY.
- (N) 4 x 4 CERAMIC WALL TILE AND COVERED TILE WALL BASE. OVER THIN SET, OVER GYP. BD.
- EXISTING WOOD CEILING JOIST TO REMAIN.
- 1-1/2" DIAMETER x 36" GRAB BAR PER DETAIL 3/A3 AT +33" A.F.F. PROVIDE 16 GA. STUDS AND BACKING PLATES PER DETAIL 5/A3.
- NESTED JAMB STUD PER DETAIL 4/A4.
- NEW WATER CLOSET, SEE PLUMBING PLAN.
- (N) BLOCKING AS NEEDED.
- NEW LAVATORY, SEE PLUMBING PLAN, AND DETAIL 8 THIS SHEET FOR ACCESS DIMENSIONS.
- NEW WOOD DOOR PER PLAN, PAINTED FINISH.
- STUDS FLANGES NOT COVERED WITH GYP. BD. SHALL RECEIVE STRAPPING PER DETAIL 1/A4, SEE ADDITIONAL INFORMATION DETAIL 8/A4.
- WALL FRAMING PER PLAN.
- 6" x 16 GA. UNPUNCHED DEEP LEG TRACK (1-1/2" LEGS); NOTCH LEGS @ STUDS. EXTEND TRACK AS REQUIRED TO TERMINATE AT A STUD. FASTEN TO A MINIMUM OF THREE STUDS.
- CUT AND BEND TRACK FLANGES AT STUD, AND FASTEN WITH (3) #10 SCREWS TO EACH STUD.
- 5/8" GYPSUM BOARD FINISH OR EXISTING 3/4" GYPSUM PLASTER WHERE OCCURS. PATCH EXISTING PLASTER @ ALL NEW PENETRATIONS. PROVIDE TWO LAYERS AT NEW FURRED CEILING PER CBC TABLE T20.(3) ITEM #21-1.1 TO COMPLETE 1 HR. ROOF/CEILING ASSEMBLY.
- 18" x 30" MIRROR
- PATCH (E) CEILING WHERE PORTION OF WALL AND HEADER IS REMOVED. ALSO SEE NOTE #13 ABOVE
- TOILET SEAT COVER DISPENSER.
- TOILET PAPER DISPENSER WITH COVER.
- NOTCH TRACK FLANGES AS SHOWN, AND WELD TO EACH STUD WITH 1/16" FILLET WELD, 1" LONG, TOP AND BOTTOM.
- SOAP DISPENSER BY OWNER INSTALLED BY CONTRACTOR.
- PAPER TONEL DISPENSER.
- FLOOR FINISH PER PLAN.
- MARBLE THRESHOLD SET IN THIN SET
- TILE LEDGE LOCATED TO CLEAR BOTTOM OF EXISTING ELECTRICAL ENCLOSURE FLANGE.
- EXISTING ELECTRICAL PANEL ENCLOSURE. PROVIDE NEW CUSTOM COVER. SEE DETAIL 1/A4.
- LINE OF EXISTING WALL & CEILING TO REMAIN. REMOVE (E) FINISH AS NEEDED FOR ACCESS.
- 3-5/8" CEILING JOISTS AT 16" O.C. MIN. PROVIDE 3625131-33 (20 GA, 33KSI) FOR SPANS UP TO 8'-8"
- 16 GA. TRACK W/ 1-1/2" LEGS. W/ (2) #10 SCREWS TO EACH WALL STUD.
- EMERGENCY NURSE CALL DEVICE PER SHEET E3.
- #8 S.M.S. EACH SIDE EACH STUD.

O.S.H.P.D. PROJECT #S141690-56		COUNTY OF VENTURA PUBLIC WORKS AGENCY ENGINEERING SERVICES DEPARTMENT	
REVIEWED DATE: 8/18/14		PROJECT MANAGER	
SPEC. NUMBER	SHEET 4 OF 13	DRAWING NUMBER	

RASMUSSEN & ASSOCIATES

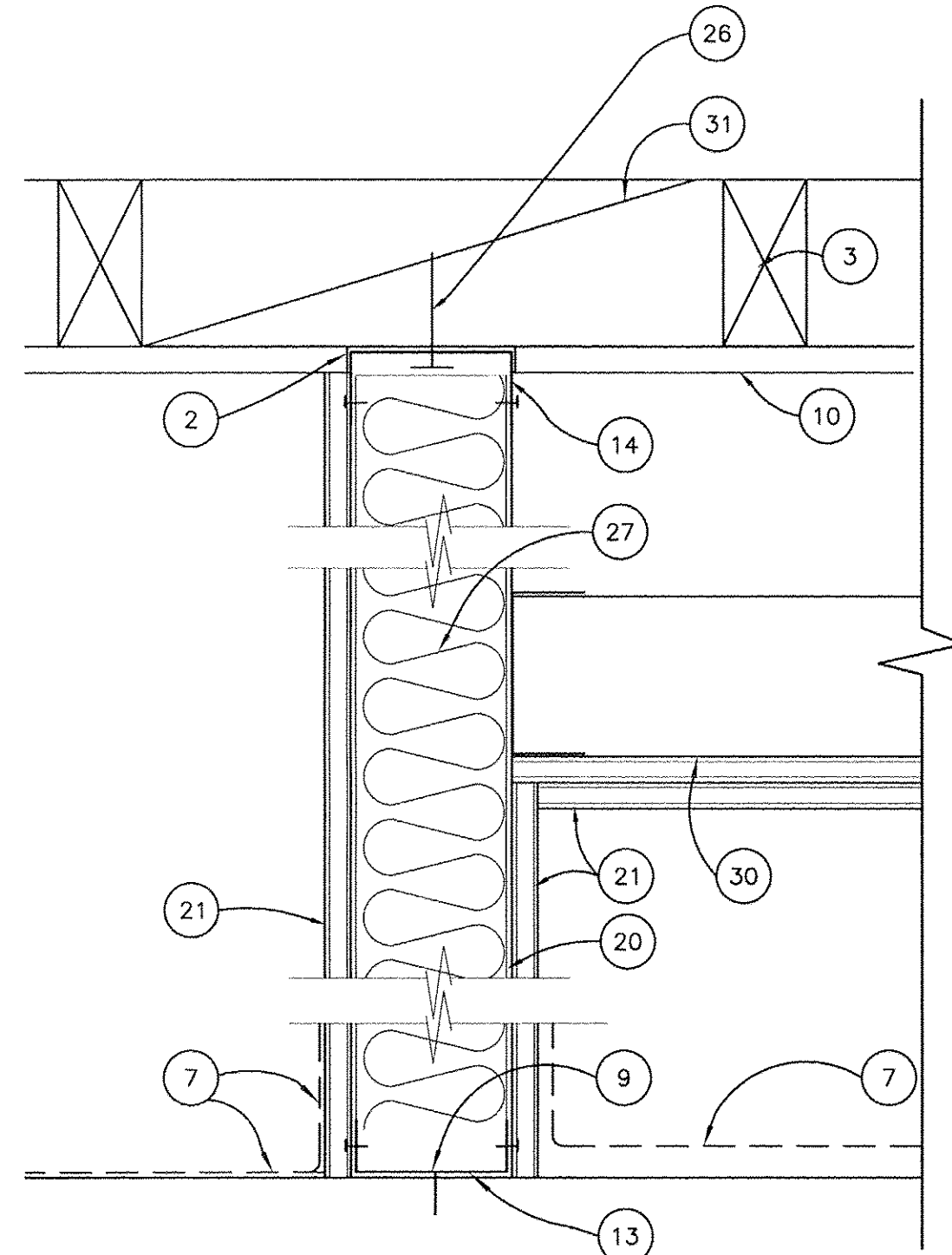


Sheet	INTERIOR ELEVATIONS AND DETAILS
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Revisions	
R&A No.	900825
Date	05/08/14
Drawn	XX
Checked	XX
Consult	XX

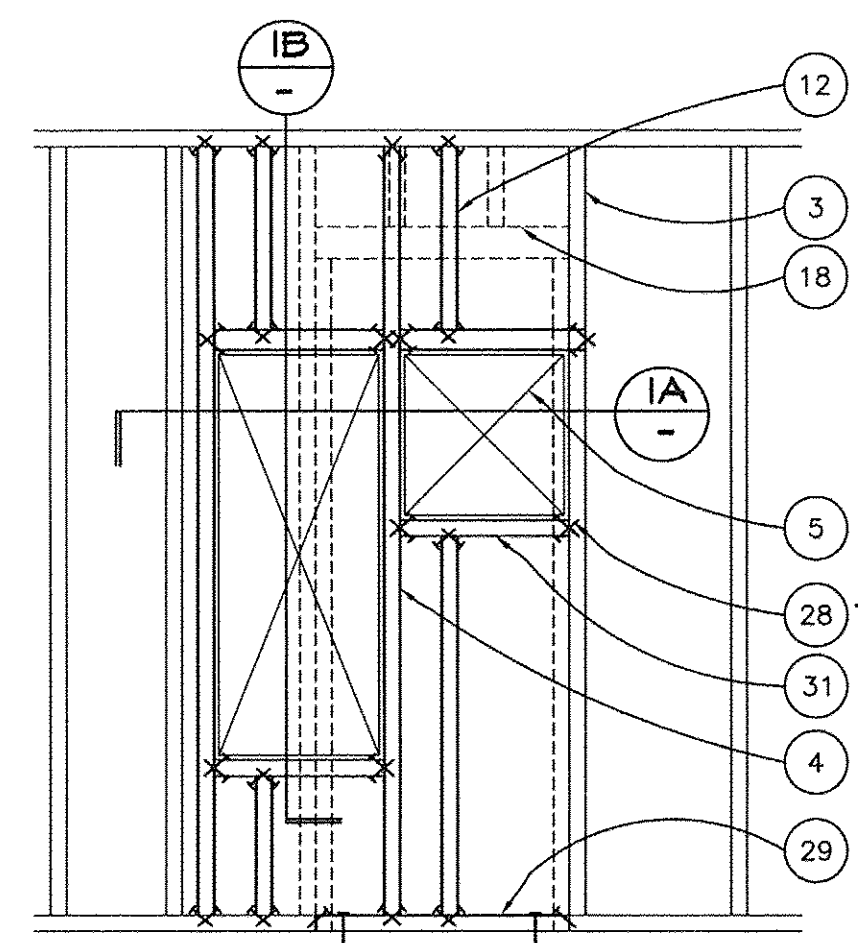
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Sheet No.
A3

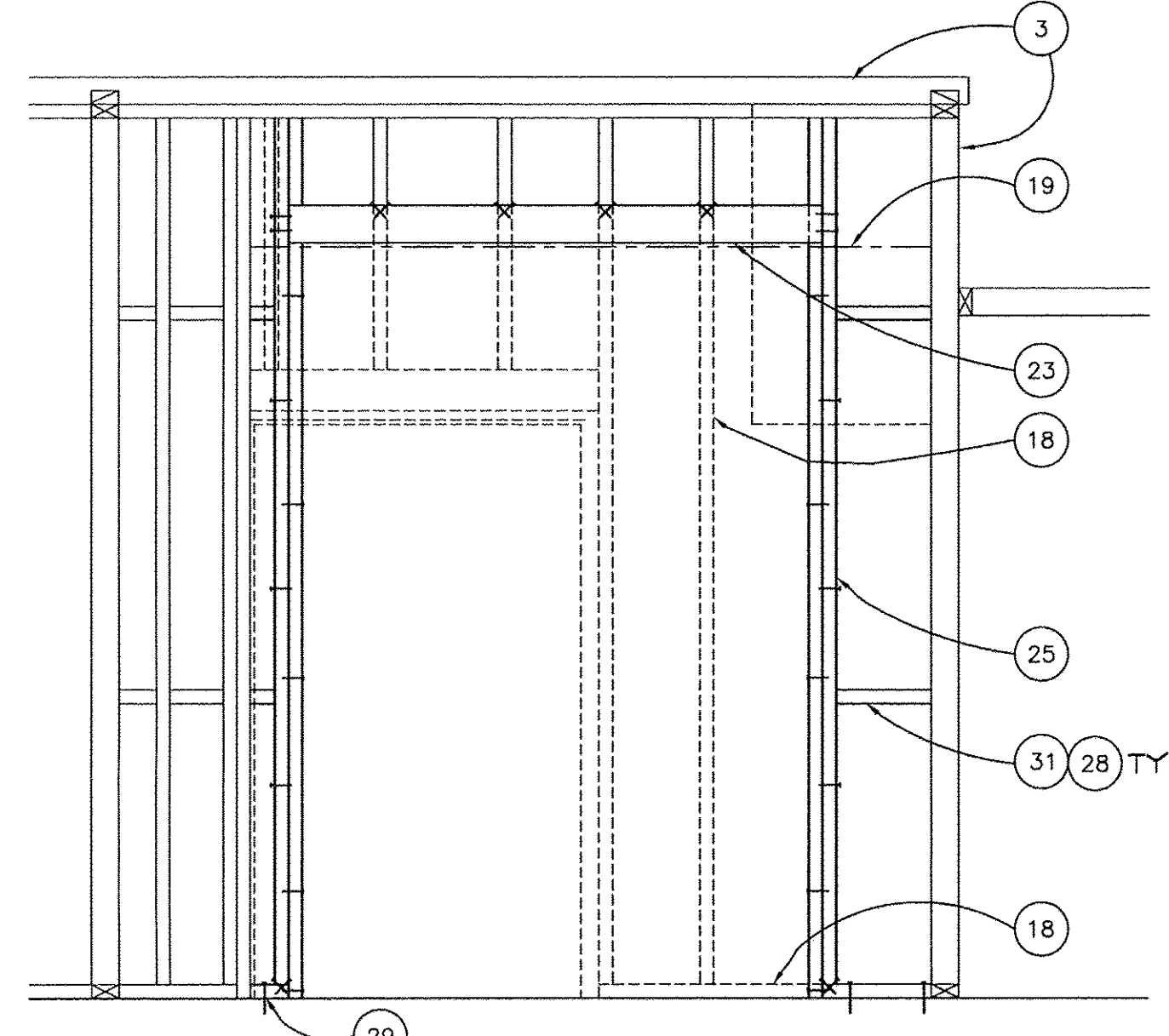
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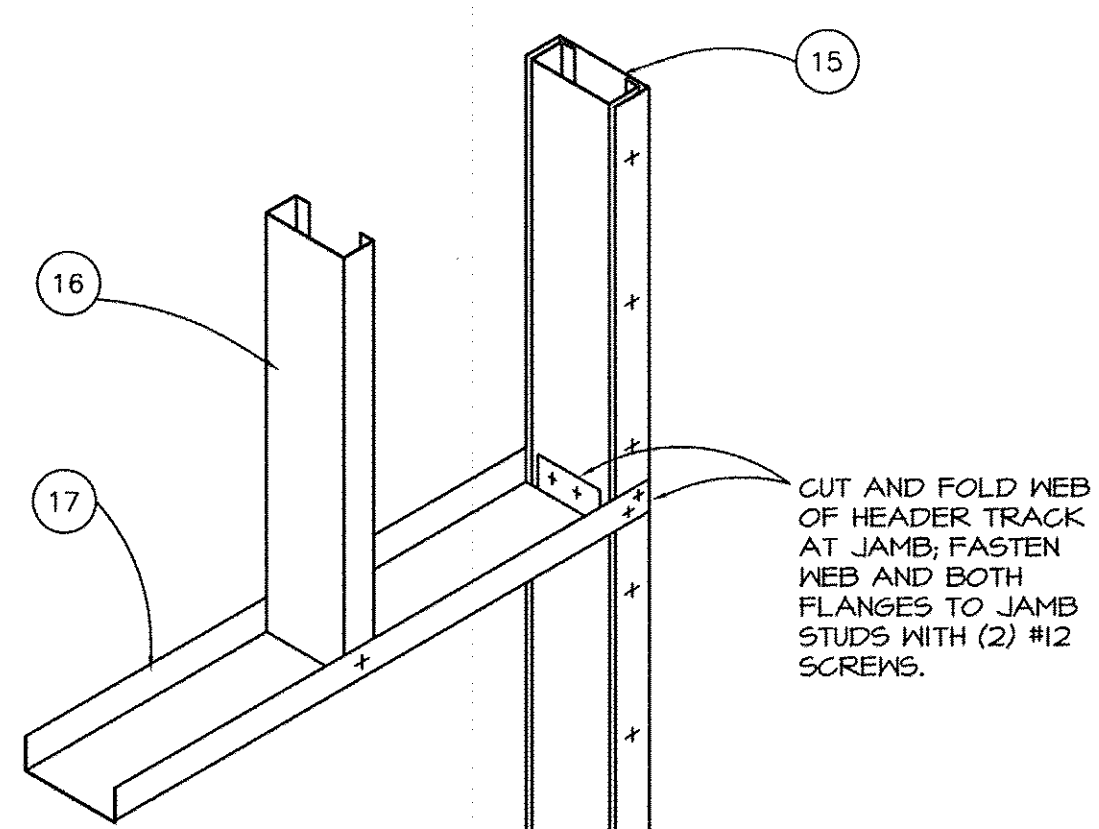
8 HEAD, WALL & SILL W/ NON-RATED OPENINGS
SCALE 3" = 1'-0"



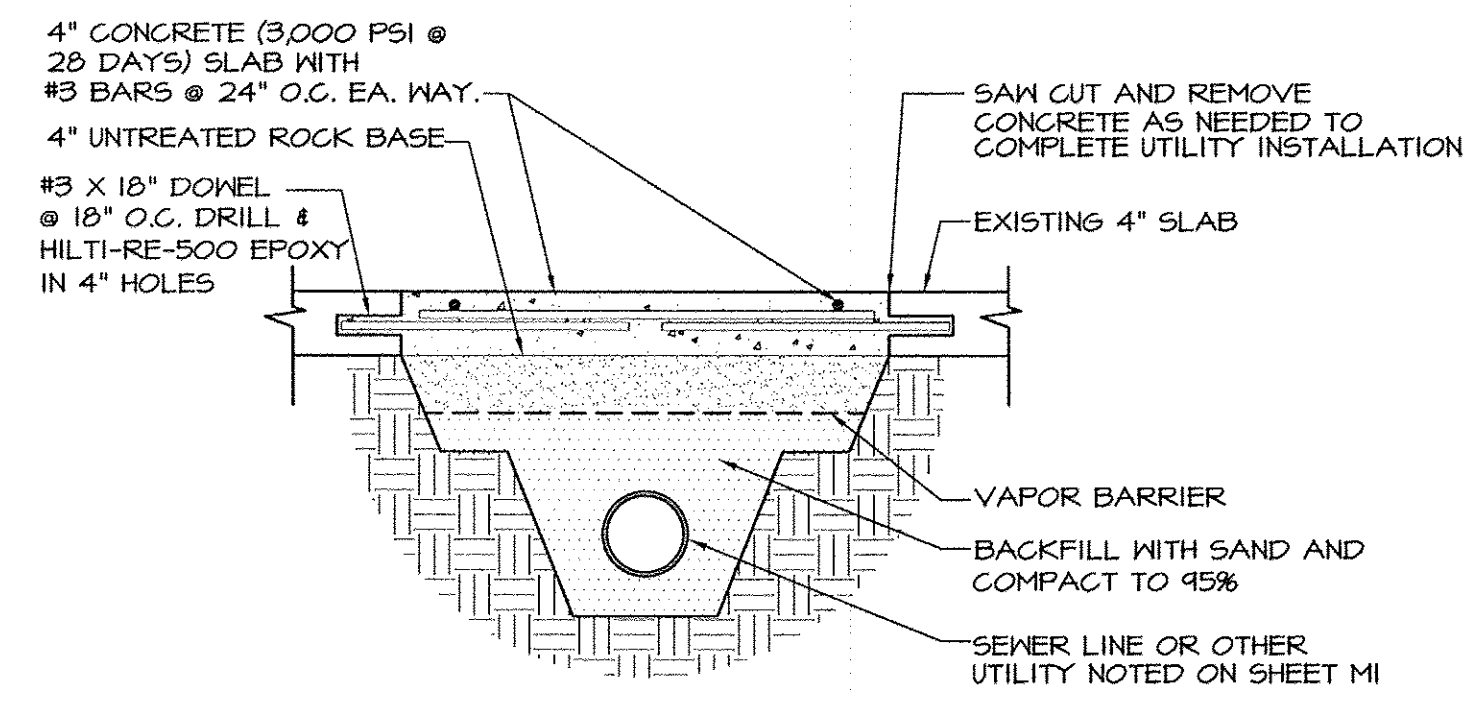
9 WALL FRAMING AT CORRIDOR
1/2" = 1'-0"



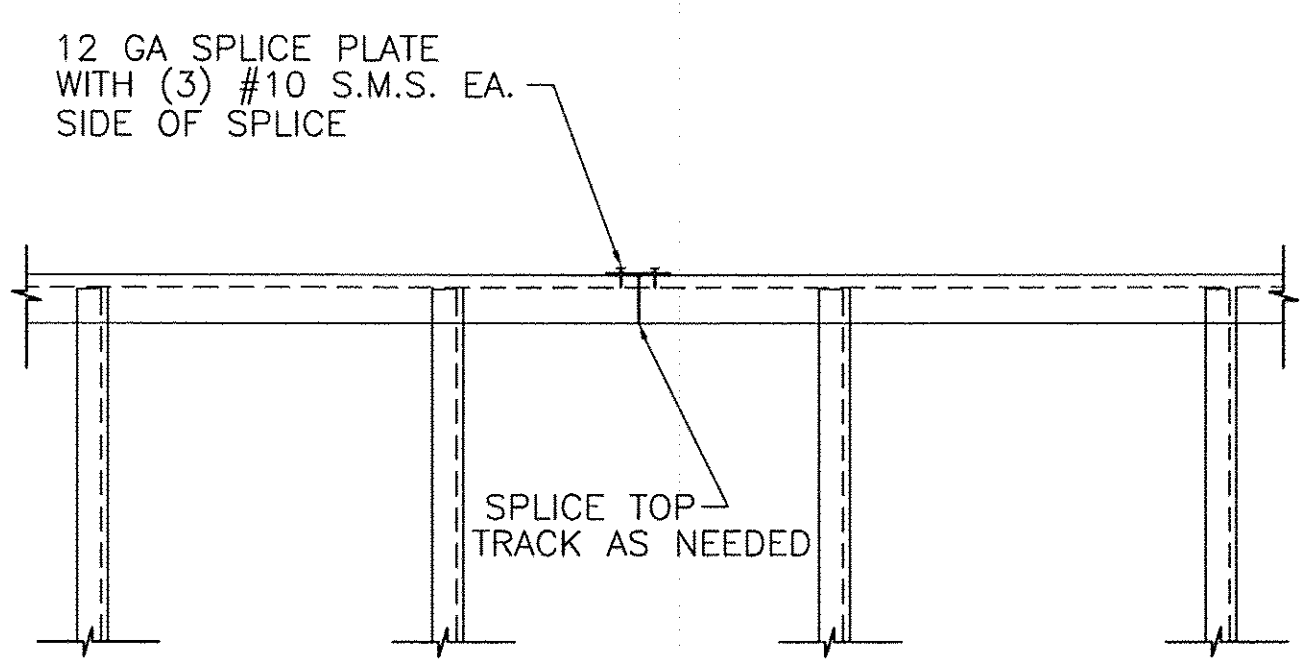
10 WALL FRAMING AT OPENING
1/2" = 1'-0"



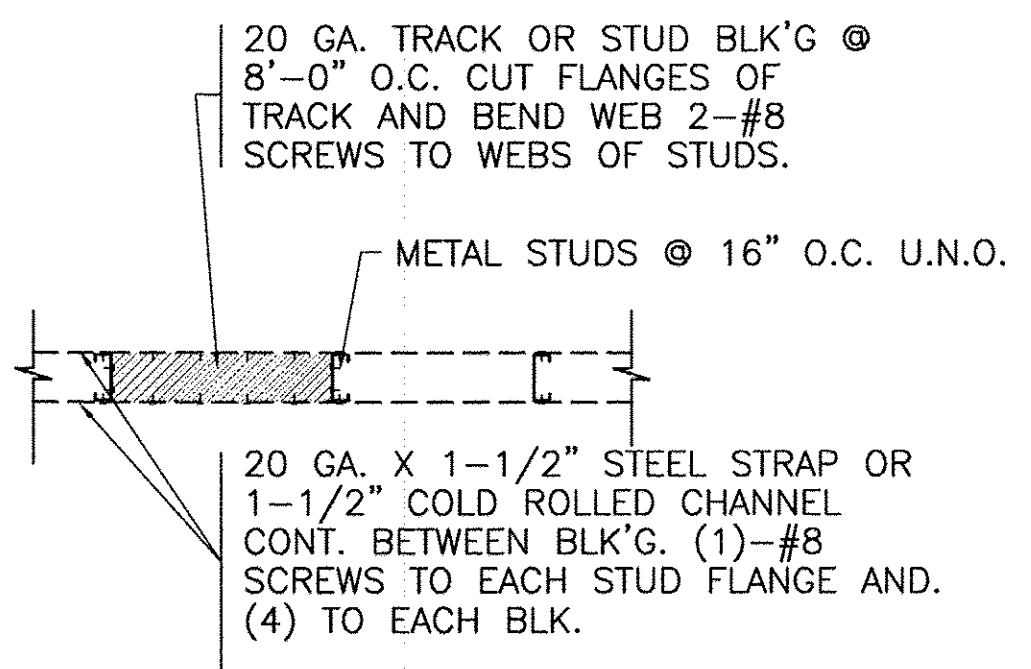
4 HEADER/JAMB FRAMING 40" MAX. WIDTH
NOT TO SCALE



5 SLAB INFILL/REPAIR
N.T.S.



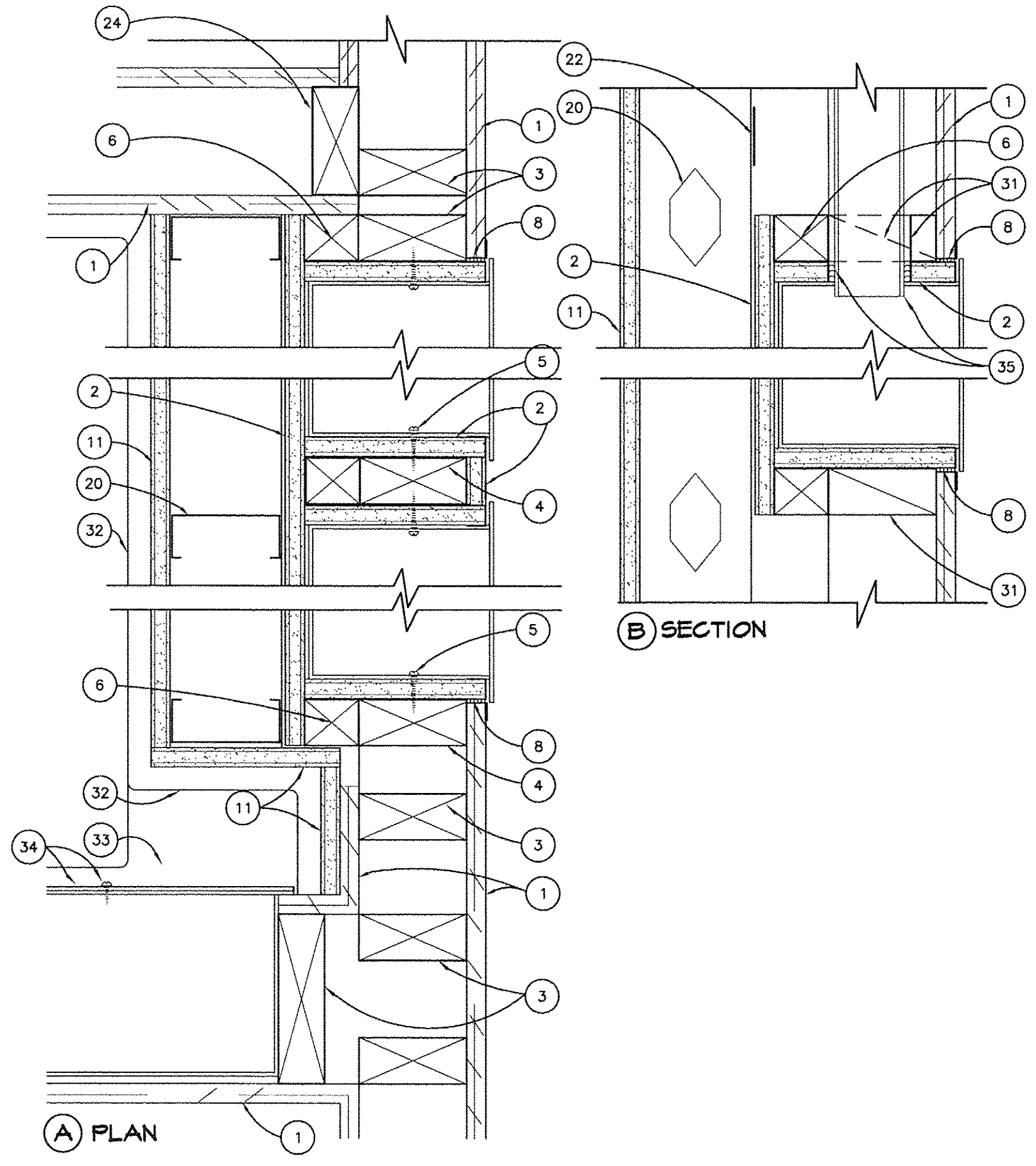
6 TOP TRACK SPLICE
N.T.S.



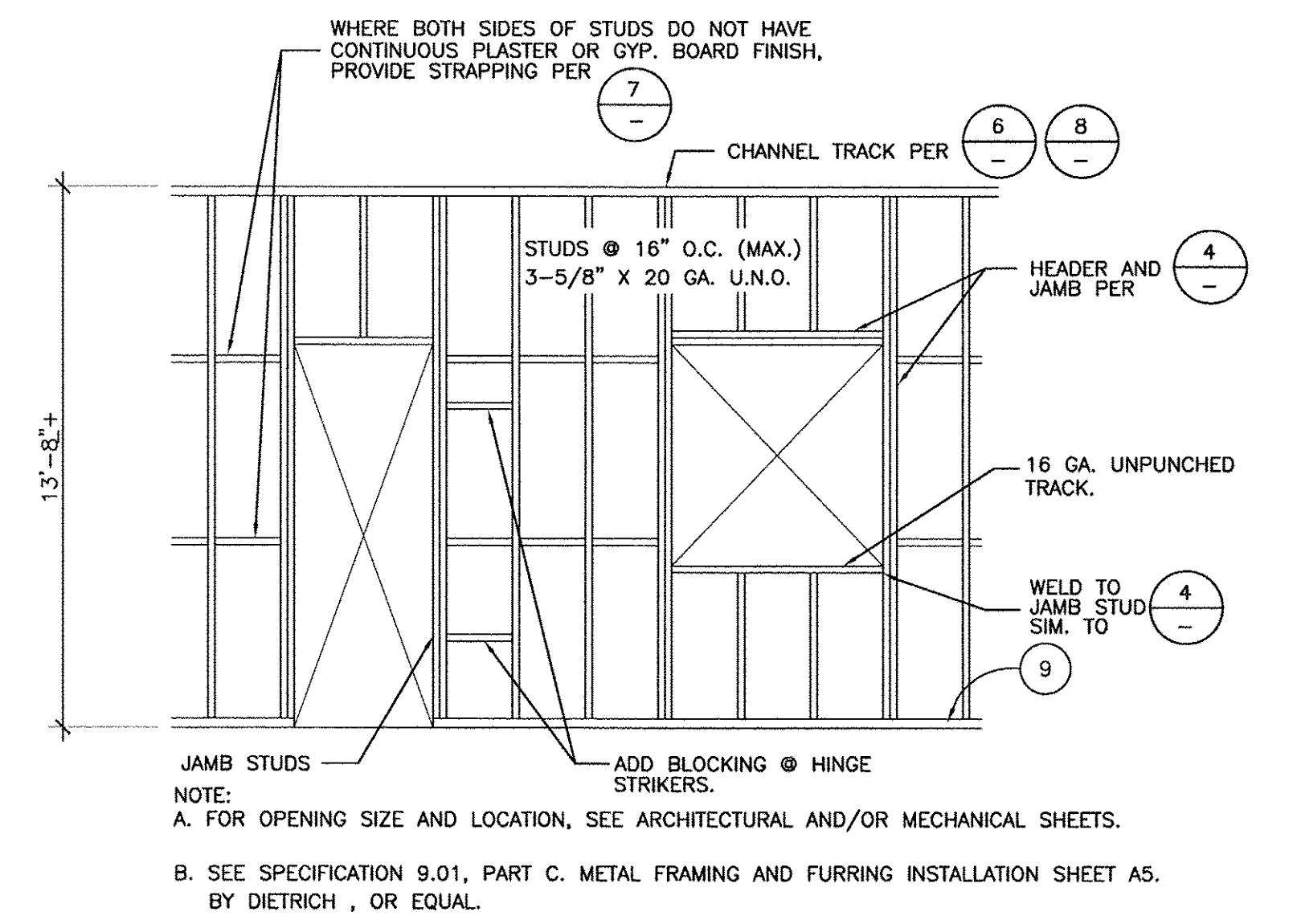
NOTES:
INSTALL METAL STRAP ONLY ON THE SIDE OF STUD WITHOUT FINISH

STRAPPING SPACING (VERTICAL)	UP TO 4'-0" HIGH - NOT REQUIRED 4'-1" TO 8'-0" HIGH - ONE ROW 8'-1" AND GREATER - 4'-0" O.C.
------------------------------	--

7 STRAPPING
N.T.S.



1 RECESSED ELECTRICAL PANELS @ 1 HR RATED WALL
SCALE 3" = 1'-0"

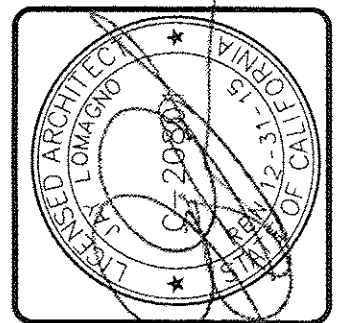


3 TYPICAL WALL FRAMING
N.T.S.

NOTE LEGEND

- EXISTING 5/8" GYPSUM BOARD FINISH OR EXISTING BUTT BOARD PLASTER WHERE OCCURS. PATCH EXISTING FINISH OR GYPSUM BOARD AT AREAS OF NEW WORK.
- 5/8" TYPE "X" GYPSUM BOARD. SCREW TO WOOD FRAMING WITH 1" TYPE S SCREWS @ 12" O.C. SEAL ALL PENETRATIONS WITH 1 HR. FIRE RATED CAULK.
- EXISTING 2 X WOOD FRAMING.
- NEW 2 X WOOD FRAMING, NAILING PER NOTE #28 BELOW.
- RECESSED ELECTRICAL PANEL SEE ELECTRICAL DRAWINGS. FASTEN PANEL TO VERTICAL FRAMING MEMBERS WITH #12 SCREWS @ 12" O.C. AT PANEL SIDES.
- NEW CONTINUOUS 2 X NAILER. SIZE AS NEEDED.
- FLOOR AND BASE FINISHES PER PLAN.
- NEATLY SAWCUT EXISTING WALL FINISH. MIN 1/8" WIDE JOINT BETWEEN EXISTING FINISH AND NEW GYPSUM BOARD SHALL BE FILLED WITH DRYWALL TAPING COMPOUND.
- FASTEN BOTTOM TRACKS TO FLOOR SLABS WITH SHOT PINS: RAMBET 1508 (145" D), ICC ESR #1749, WITH 1" EMBEDMENT, @ 16" O.C. MAXIMUM 4" FROM END OF TRACK AND 2" FROM EA. SIDE OF JAMB STUD OR STUDS SUPPORTING EQUIPMENT ANCHORAGE OR BACKING PLATES. PLACE 2 SHOT-PINS @ 8" O.C. AT ONE SIDE OF JAMB STUD WHERE TRACK IS INTERRUPTED BY WALL OPENING.
- (E) HARDLID CEILING.
- 5/8" GYPSUM BOARD FINISH. SCREW TO FRAMING WITH 1" TYPE S SCREWS @ 12" O.C.
- 2 X WOOD CRIPPLE STUDS TO (E) TOP PLATE. NAIL PER NOTE #28
- 16 GA. BOTTOM TRACK. FASTEN STUDS TO TRACK WITH #8 SMS EACH SIDE.
- 16 GA. DEEP LEG TRACK, DIETRICH TSC (1.5" LEG) FASTEN STUDS TO TRACK WITH #8 SMS EACH SIDE.
- NESTED STUD AND TRACK, 18 GAUGE MINIMUM THICKNESS. SCREW FLANGES TOGETHER WITH #8 SCREWS AT 6" O.C.
- CRIPPLE STUDS WITH (2) #12 SCREWS TO HEADER TRACK.
- HEADER, DEEP LEG TRACK, 18 GAUGE MINIMUM.
- CAREFULLY REMOVE (E) WALL FINISH & WOOD WALL FRAMING AS SHOWN WITH DASHED LINES.
- LINE OF (E) UTILITY CEILING FINISH. FRAME NEW HEADER TO ALIGN NEW AND EXISTING CEILING FINISH.
- 20 GAUGE STUDS AT 16" O.C., 3-5/8" WIDE TYPICAL, SEE DETAILS 3-8 ON THIS SHEET AND FURRING DETAIL 6 & 7 SHEET A5.
- 5/8" TYPE X GYPSUM BOARD. (TWO LAYERS AT CEILING PER CBC TABLE T20.(3) ITEM #21-I.1. 1 HR. ROOF/CEILING ASSEMBLY.
- ALL STUD FLANGES NOT COVERED WITH GYPSUM BOARD ON BOTH SIDES SHALL RECEIVE STRAPPING PER DETAIL 7/A4, SEE ADDITIONAL INFORMATION AT DETAIL 8/A4.
- (N) 4 X 6 HEADER. NAIL W/ (4) 10d. AT EACH END, THRU KING STUDS.
- EXISTING WALL: 5/8" PLASTER OVER 2X WOOD FRAMING
- TRIMMER & KING STUDS EACH SIDE OF (N) OPENING. NAIL WITH 10d. @ 12" STAGGERED & ALTERNATING SIDES.
- FASTEN TOP TRACK TO PERPENDICULAR (N) CEILING BLOCKING AT 16" O.C. WITH #14 SCREWS.
- PROVIDE R-11 BATT INSULATION AT NEW RESTROOM WALLS.
- WOOD FRAMING TO BE NAILED PER 2010 CBC, PART 2, VOL. 2, FASTENING SCHEDULE TABLE 2304.4.1.
- 2X4 WOOD SILL PLATE. ATTACHED TO (E) CONCRETE SLAB WITH 5/32" POWER DRIVE SHOT PIN AT 32" O.C. AND MIN. 4" FROM EA. END W/ MIN. 1-1/2" EMBEDMENT. USE RAMBET #1524 OR APPROVED EQUAL. ICC ER-#1147.
- CEILING FRAMING PER DETAIL 11/A3.
- 2 X WOOD BLOCKING. NOTCH AT AS NEEDED FOR CONDUIT. SEE NOTE #35.
- CERAMIC TILE WAINGSCOT.
- CERAMIC TILE LEDGE. SEE INTERIOR ELEVATION SHEET 3 FOR HEIGHT.
- (E) ELECTRICAL ENCLOSURE TO REMAIN. PROVIDE CUSTOM 14 GAUGE METALLIC COVER PLATE. FIELD VERIFY SIZE OF EXISTING FLANGE. PANEL SHALL OVERLAP EXISTING FLANGE BY 1/2" ON ALL SIDES. SCREW NEW COVER PLATE TO EXISTING ENCLOSURE FLANGE WITH MIN. (5) #10 SMS (ON TOP, BOTTOM AND RIGHT SIDE ONLY.) PRIME & PAINT COVER PLATE TO MATCH ADJACENT WALL COLOR. SEE ELECTRICAL PLANS FOR ADDITIONAL INFORMATION.
- ELECTRICAL CONDUIT PER ELECTRICAL DRAWINGS. FIRE CAULK GYPSUM BOARD PENETRATION PER DET 20/E1.

RASMUSSEN & ASSOCIATES
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21 S. California Street
Ventura, California 93001
(805) 648-1234



Sheet DETAILS

Title	
Revisions	
R&A No.	900825
Date	08/09/14
Drawn	XX
Checked	XX
Consult	No.

P.A.C.U. TOILET
SANTA PAULA HOSPITAL
825 NORTH 10TH STREET
SANTA PAULA, CA

Sheet No.
A4

O.S.H.P.D. PROJECT #S141690-56		COUNTY OF VENTURA PUBLIC WORKS AGENCY ENGINEERING SERVICES DEPARTMENT	
California State Board of Professional Engineers and Land Surveyors Registered Professional Engineer * REVIEWED * FOR COMPLIANCE WITH TITLES 19 AND 24 CALIFORNIA CODE OF REGULATIONS. FINAL APPROVALS SUBJECT TO PUBLIC HEARING. BY: [Signature] DATE: 8/18/14		PROJECT MANAGER	
PROJECT NUMBER	SHEET	OF	
	5	13	
DRAWING NUMBER			

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- 1.01 GENERAL AND SUPPLEMENTAL CONDITIONS
- A. The "Standard Form of Agreement Between Owner and Contractor for a Small Project," the "General Conditions of the Contract for Construction of a Small Project," and the "Supplemental Letter of Agreement" are all a part of these Contract Documents.
- B. OSHPD Requirements: Contractor shall conform to all requirements of the Office of Statewide Health Planning and Development, including (but not limited to) submittal of Verified Reports, cooperation with the Inspector of Record, and preparation of Deferred Approvals, as required by Title 24 CCR, Part 1.
- C. Submittals:
- All submittals shall be reviewed by the Contractor prior to submission to Architect, and shall be stamped or noted to so indicate.
 - Shop Drawings: Submit the number of copies required for the Contractor, plus three which will be retained by the Architect.
 - Product Data: Submit the number of copies required for the Contractor, plus three which will be retained by the Architect.
 - Both Product Data and Shop Drawings shall be marked with arrows, clouds, or other indicators which can be reproduced with black 4 white copiers; do not use highlighters.
 - Samples: Submit three samples unless noted otherwise.
 - Project Closeout Information: Submit one clean copy.
 - Deferred Approvals: Submittals for items listed on the plans as "Deferred Approvals" shall be reviewed by the Architect prior to submittal to OSHPD. Where applicable, engineered calculations (bearing the stamp and signature of an engineer licensed in the state of California) shall be provided, confirming capacity of structural attachments, hydraulic capacity, etc. Submittals shall detail all structural attachments.
- D. Substitutions: In all cases where a product or manufacturer is named, contractor shall submit product data for review and approval of Architect prior to ordering or installing the substitute product.
- E. Maintenance of fire-protective construction: Contractor shall maintain the integrity of fire-rated partitions, floors, roofs, openings, and penetrations during the course of construction, in conformance with the requirements of the permitting agency.
- F. Hospital utilities shall not be interrupted without prior notification and approval by the hospital engineering department.
- G. Infection Control: Contractor shall implement infection control measures as determined by the hospital's infection control officer. Maintain appropriate dust control barricades and walk-off mat. Maintain negative-pressure ventilation of space.
- H. Final Cleaning: Project shall be left broom-clean, with any drips, splatters, overspray, etc. of construction materials removed from finished surfaces.
- I. Project Closeout: Record drawings, warranties, instruction manuals, and system certification reports (as required) shall be submitted and approved prior to final payment.
- 2.01 DEMOLITION, CUTTING AND PATCHING
- A. Demolition: Remove existing components to the extent indicated. Protect existing components to remain, and enclose demolition area as required to avoid disruption to adjacent hospital functions. Provide temporary shoring or permanent reinforcing prior to demolition of any structural components.
- B. Cutting and Patching: As indicated, or where required to install components shown on the drawings, remove existing components to the extent required for access or routing of ducts, piping, and conduit. Patch finishes to match existing for appearance and fire rating. Do not cut structural components unless shown on drawings; notify Architect of conflicts with existing structure. Proper procedures shall be utilized to prevent overcutting of structural components.
- C. Remove and dispose of all demolished materials. Confirm with owner whether they wish to take possession of any fixtures, casework, doors, frames, windows, or similar components prior to removal from site. The owner has the first right to salvaged items.
- D. Maintain barricades and control ventilation systems in order to prevent contamination of the existing hospital functions outside of the construction area. The construction area should be under negative pressure in relation to adjacent spaces whenever demolition or removal of existing materials is being performed, or when other construction operations are occurring which generate odors or dust.
- E. Provide fire-rated barricades where existing fire rated walls are compromised in excess of one working day. Maintain pathways, lighting, and fire-rated protection of exits serving any occupied area of the building.
- 3.03 CONCRETE FASTENING SYSTEMS
- A. Expansion Anchors: Anchors shall be of the type and manufacture as shown on the drawings. Sleeve-type anchors shall not be used.
- B. Powder Activated Fasteners: Fasteners shall be of the type and manufacturer as shown on drawings. Installation tools shall be by the fastener manufacturer.
- C. Epoxy Anchors: Anchors and epoxy material shall be of the type and manufacture as shown on the drawings.
- D. Installation and Testing: A copy of the manufacturer's printed installation instructions and the ICC report shall be provided to the Inspector of Record; installation shall be in strict compliance with those documents. Testing requirements for structural expansion anchors, epoxy anchors, ceiling anchors, and ceiling fasteners are indicated on the drawings.
- E. Protection of Existing Steel Reinforcing: Prior to drilling for any expansion anchors, locate existing reinforcing steel with by non-destructive test procedure. Drilling shall not damage any existing steel.
- 4.01 NOT USED
- 5.01 METAL FABRICATIONS
- A. Miscellaneous ferrous metal structural shapes shall be fabricated with steel complying with ASTM A36 and A283. Shapes shall be galvanized whenever their installed location will be exposed to weather, floor cleaning, or other moisture; otherwise they shall be shop primed. Welding shall be done by the electric arc process; welding shall be inspected in accordance with CBC chapter 17.
- B. Nuts, bolts, and washers shall comply with ASTM A325, and shall be galvanized when exposed as noted above.
- 6.01 ROUGH FRAMING
- A. Provide blocking at ceiling joist framing as required for attachment of new partition walls. All connections shall be fully nailed per CBC Table 2304.9.1, in accordance with the requirements of the California Building Code 2013.
- B. Provide wood framing at new openings in wood framed walls.

- 6.02 MARLITE FRP WAINSCOT
- A. Panels: 48 x 46 x 3/32 inch fiberglass reinforced polyester with a factory finish. Color as selected by Architect from manufacturer's full range of available colors. Finish: Gently pebbled, high gloss.
- B. Moulding: Panel manufacturer's standard Integral color PVC moulding, factory finished to match panel finish; Marlite UM 350 FP inside corner, UM 360 FP outside corner, UM 365 FP division and UM 370 FP edging.
- C. Adhesive: Panel manufacturer's recommended adhesive for installation on the substrate shown. Marlite C - 375 / 376 adhesive.
- D. Prime / Sealer: The adhesive manufacturer's recommended primer / sealer for the substrate shown.
- 6.03 PLASTIC LAMINATE CASEWORK (CABINETS & COUNTERTOPS)
- A. New and modified casework in accordance with requirements of the (N.I.) "Manual of Millwork", latest published edition, Custom Grade; Type II construction, single length sections to fit access openings; Style A, Frameless, in accordance with Supplement No. 14 2 to section 15: Flush overlay door and drawer front style; Type A, flush door type. Prepare for installation of utilities.
- B. Plastic Laminate Cabinets: NEMA LD 3; General Purpose Quality. Color and pattern shall match existing adjacent cabinets.
- C. Modify existing countertops in accordance with the requirements of the (N.I.) "Manual of Millwork", Section 16, "Custom" grade; with decorative edge. Provide backsplash where shown, height as indicated, integral cove, with square top; square, butt joint end splash where shown with square top.
- D. Decorative edge: Where indicated on the drawings, provide decorative laminate bevel edge molding by Kuehn, Type I, flat back, black, or approved equal.
- E. Hardware: Hinges: Concealed "European" type Pulls: "Wire Pull" Type Catches: Magnetic type Locks shall be installed where shown on the drawings and master keyed.
- 7.01 FIRESTOPPING
- A. Provide sealant systems as required by the California Building Code at all through penetrations and joints in fire rated floors, roofs, and walls. This facility requires an F-rating of 2-hours at all floor and roof decks. Sealant is not required in walls where non-rated openings are allowed.
- B. Sealant systems shown on the drawings are manufacturer's complete assemblies, and shall not have other materials substituted for those indicated.
- C. Alternate systems by other manufacturers may not be substituted without prior submission in accordance with Section 1.01.
- D. Should conditions be discovered in the field which do not allow the installation of the indicated systems in accordance with the manufacturer's requirements, the condition shall be brought to the attention of the architect by the IOR, for determination of an appropriate alternate sealant system.
- 8.01 WOOD DOORS
- A. Construction: Solid core, non-rated, constructed per Woodwork Institute Manual of Millwork, Section 12, Premium grade, solid wood block or solid particle board core.
- B. Facing: Paint grade, close hardwood faces and vertical edges.
- C. Manufacturer: Algoma Hardwood Inc., Buell Door Co., Eggers Industries, Mansfield Architectural Doors, or Architect approved equal.
- D. Installation: Install doors in accordance with Woodwork Institute Manual of Millwork, Section 12. Coordinate installation of doors with installation of frames and hardware. Adjust door for smooth and balanced door movements.
- 8.02 DOOR FRAMES
- A. Non-rated, Interior Frames: 1 1/2 inch thick, base metal thickness. Conform to requirements of ANSI/SDI-100 and ANSI A117.1.
- B. Bituminous Coating: Fibered asphalt emulsion.
- C. Primer: Zinc-chromate type, air dried or baked.
- D. Fabricate frames as welded unit. Joints shall be mitered or butted and continuously arc welded for full depth and width of frame and trim. All contact edges shall be closed tight and all welds on exposed surfaces dressed smooth and flush.
- 8.03 DOOR HARDWARE
- A. A complete hardware schedule shall be submitted by the hardware supplier. The hardware schedule is intended to cover all doors and to establish a type and standard of quality. The hardware supplier shall examine the plans and specifications and furnish proper hardware for all openings. Provide the Owner with an approved schedule for maintenance purposes.
- B. Perform Work in accordance with ANSI A117.1-1995, Specification for Making Buildings and Facilities Accessible to and Usable by Physically Handicapped People; 2013 California Building Code and Americans with Disabilities Act (ADA). Hardware Supplier shall be a company specializing in supplying commercial door hardware and shall have as an employee an AHC member of the Society of Hardware Consultants who shall be available for consultation at no additional cost to the Owner during the course of construction.
- C. Strikes shall have extended lips where required to protect trim from being marred by latch bolt.
- D. All doors from all rooms are to have locks or latches of a type which are operable at all times from the inside by turning the lever; they shall not require special knowledge or effort.
- E. Door closers: Closers shall be mounted for 180 degrees of swing whenever possible. Supply drop plates at narrow top. Door closers shall not require more than 5 lbs. of pressure to operate.
- F. Silencers: Provide Silencers at all metal door frames. Quality 1337-A.
- G. Keying: Door Locks shall be keyed differently and master keyed as directed by Owner. Supply 2 change keys for each lock and 2 master keys.
- H. Mount hardware units at heights recommended in "Recommended Hardware Locations for Wood Flush Doors" by the Door and Hardware Institute (DHI), except as otherwise specifically indicated or required to comply with governing regulations.
- I. Hardware Schedule: See Drawings
- 9.01 GYPSUM BOARD AND METAL FRAMING SYSTEMS
- A. Gypsum Board: United States Gypsum Company, or equivalent. Gypsum Board: ASTM C36, fire resistive type (type x) throughout, UL rated; 5/8 inch thick, maximum permissible length; ends square cut, tapered edges.

- B. Accessories:
- Acoustical Insulation: ASTM C665; preformed glass fiber, friction fit type, unfaced, 3-1/2" thickness or as indicated on drawings.
- Thermal Insulation at Furring: ASTM C612; preformed rigid or semi-rigid glass fiber boards, friction fit type, unfaced, 1-1/2" thickness or as indicated on drawings.
- Acoustical Sealant: Non-hardening, non-skinning, for use in conjunction with gypsum board; No. 3131 - manufactured by H.N. Henry or approved equivalent.
- Corner Beads and Trim: Metal, ASTM C 1047 and C 840, hot dip galvanized.
- Joint Materials: U.S.M. C475; reinforced tape, joint compound, adhesive, and water.
- Prime Coat: U.S. Gypsum @First Coat[®] or Hamilton @Prep Coat[®].
- Texture Finish Materials: Latex based texturing material, containing fine aggregate.
- C. Metal Framing and Furring Installation:
- Metal Stud and Joist Framing: Manufacturer shall be a member of the Steel Stud Manufacturer's Association, and provide products covered by ICC Evaluation Report #44943P. Metal Studs and Tracks: ASTM C645 (non load bearing); galvanized sheet steel. Unless otherwise detailed, studs and track shall be 20 gauge material. Vertical studs shall have 1-5/8" flange; sill track shall have 1-1/2" flange; slip track shall have flanges as detailed. Dietrich "SLP-TRK" is an acceptable alternate to double slip track at top of wall condition.
- Install studs and joists plumb and level, in accordance with ASTM C754 and manufacturer's ICC Evaluation Report, 16 inches on center typical U.N.C. Connections shall be welded and screwed as detailed on the drawings.
- Install acoustical sealant where indicated and at gypsum board perimeter at metal framing, and at penetrations of partitions by conduit, pipe, duct work, and rough-in boxes.
- Install double studs at open ends of partitions that do not intersect cross partitions
- Complete framing ready to receive gypsum board.
- Stud sections - SSMA section with 1-5/8" flanges, 20 gauge minimum.
 - Bottom Tracks - SSMA section with 1-1/2" legs, 16 gauge minimum, unpunched.
 - Top Tracks, slip connection - SSMA section with 2" legs, 14 gauge minimum, unpunched.
 - Top Tracks, fixed connection - SSMA section with 1-1/2" legs, 16 gauge minimum, unpunched.
- D. Bridging: Unpunched channel shaped members designed for use with the studs, formed from hot dip zinc coated steel, 16 gage.
- E. Strapping, Lateral Bracing, Clip Angles and other Accessories: Manufacturer's standard components formed from hot dip zinc coated steel, 16 gage minimum.
- F. Backing Plates:
- Continuous backing plates installed behind cement board at inside face of parapet walls to receive fasteners for roofing base Flashings: 16 gage galvanized steel sheet.
 - For grab bars, handrail brackets, etc.: 16 gage steel track section or steel plate 3/16 inch thick, of proper size to accommodate fastenings.
- G. "Z" furring members: Steel, 16 gage minimum, of size and profile indicated.
- H. Gypsum Board Installation: Install gypsum board in accordance with GA-201, GA-216, GA-600 and manufacturer's instructions, with self-tapping screws.
- I. Joint Treatment: All Joints, including internal and external corners, shall be filled and taped and 3-coat finished. All fastener heads and metal trim shall be 3-coat finished.
- J. Prime Coat: Thoroughly remove all dust with a large damp sponge. Roller or airless spray apply prime coat in accordance with prime coat manufacturer's published application recommendations for full and complete coverage.
- K. Texture Finish: Gypsum board shown to be painted shall be fine-grained "orange peel" spray stipple finished at walls and ceiling. Spray-apply finish texture coating in accordance with manufacturer's instructions.
- 9.02 INTERIOR GYPSUM PLASTER
- A. Where shown on drawings, or where existing plastered walls are being patched, provide metal lath and plaster finish applied to wall framing. Lath shall be 3.4 lb. galvanized expanded metal. Provide 3-coat gypsum plaster finish to match existing, maximum 1:3 gypsum to sand ratio, in conformance with CBC chapter 25 and manufacturer's recommendations.
- 9.03 CERAMIC TILE
- A. Provide wall and floor tile and perform work in accordance with the Tile Council of America (TCA) Handbook for Ceramic Tile Installation, latest edition
- B. Wall tile shall be 4" x 4" glazed ceramic tile, color group 1. Install per TCA recommendations for thin-set wall tile over gypsum board or cementitious backer board.
- C. Floor tile shall be 2" x 2" unglazed ceramic tile, color group 1. Install per TCA recommendations for thin-set floor tile over concrete subfloor.
- D. Provide tile products as available from the standard lines of Dal Tile.
- E. Provide cove, cap and angle trim shapes for all corners and edge conditions.
- F. Threshold: one-piece white marble threshold, full depth and width of frame opening, beveled both sides, radiused edges. Installation in accordance with TCA Handbook for Ceramic Tile Installation - Method TR611.
- G. The installed dry surface static coefficient of friction for finish surface materials shall be not less than 0.60 for level walking surfaces when tested in accordance with procedures outlined in ASTM Test Method C-1028-84.
- 9.04 RESILIENT FLOORING AND BASE
- A. Match existing adjacent materials.
- 9.05 PAINTING
- A. Materials: All material shall be manufacturer's first quality and best grade and shall be delivered in original, unopened containers. Materials shall not be diluted by addition of thinners except as recommended by manufacturer's label instructions.
- B. Examination and Preparation: Verify that substrate conditions are ready to receive work. Correct minor defects and clean surfaces which affect work of this Section. Protect adjacent surfaces against damage and stains.

- Gypsum Board Surfaces: Fill minor defects with latex compounds. Spot prime defects after repair. The first coat shall be roller applied and include such repeated touching up of suction spots of overall application of sealer as necessary to produce a uniform color and gloss.
- Galvanized Surfaces: Remove surface contamination and oils and wash with solvent. Apply coat of etching primer.
- Exposed metal work, both interior and exterior, including unplated plumbing, piping, and trim, shall be thoroughly cleaned before application of paint. Remove rust, scale, grease and pickling solution. Wash with solvent if necessary.
- Shop Primed Steel Surfaces: Sand and scrape to remove loose primer and rust, clean surfaces with solvent. Prime bare steel surfaces.
- Demolition: Where existing partitions, walls, floors, ceiling, roof or floor construction, curbs, fixtures, outlets, ducts, piping, conduit, trim and other such items are shown to be removed, existing remaining construction and new patch and repair work thereto, shall be painted to match existing and/or new adjacent construction and finish.
- G. Application: Apply products in accordance with manufacturer's instructions.
- All edges of paint adjoining other materials or colors shall be sharp, straight, and clean, and without overlapping.
- Exposed ducts, piping, conduits, ferrous or galvanized metal work, factory primed equipment, and other such features for which a paint process is not specifically designated, are to be finished to match adjacent painted walls or ceilings if the area or space in which they occur is scheduled to be painted.
- All closets, alcoves, recesses and other such accessory spaces shall be finished the same as adjoining rooms, unless shown otherwise on the drawings.
- Remove unfinished louvers, grilles, covers, and access panels and paint separately. Paint dampers and ducts visible behind louvers and grilles flat black.
- D. Schedule - Interior Paint Processes
- Gypsum Board:
- Process 5 (semi-gloss)
- 1 coat sealer W420 Halltone (confirm installation of gypsum sealer specified above)
- 2 coats semi-gloss, W450, Decoglo (1st coat roller applied)
- Wood:
- Process HN (wood-natural)
- 1 coat stain LG120 Decolaq
- 1 coat sealer V161 Acritthane
- 2 coats clear finish V 163 Acritthane
- Process 5 (semi-gloss):
- 1 coat undercoat WT07 Unikote
- 2 coats semi-gloss W450 Decoglo
- Metal-Galvanized:
- Process 5, (semi-gloss):
- 1 coat primer QD43-7 GalvAlum
- 2 coats semi-gloss W450 Decoglo
- Metal-Ferrous:
- Process 5 (semi-gloss):
- 1 coat primer 43-5 Corrabar
- 1 coat semi-gloss W450 Decoglo
- 10.01 TOILET ACCESSORIES
- A. Conform to applicable portions of the 2013 California Building Code, The Americans With Disabilities Act (ADA) and ANSI A117.1.
- B. SUBMITTALS
- Submit under provisions of Section 01001.
- Product Data: Provide data on accessories describing size, finish, details of function and attachment methods. Manufacturer's installation instructions: Indicate special procedures and perimeter conditions requiring special attention.
- C. MATERIALS
- Manufacturers:
- Bobrick Washroom Equipment, Inc.
 - American Specialties, Inc. (ASI)
- Substitutions: Under provisions of Section 01000 and Section 01001.
- All products offered as equivalent to the specified manufacturer's products listed herein shall be equivalent to all the properties, specifications, appearance, conformance to standards, finish and functions of the specified manufacturer's product.
- Sheet Steel: ASTM A366.
- Stainless Steel Sheet: ASTM A167 Type 304.
- Tubing: ASTM A269 stainless steel.
- Fasteners, Screws, and Bolts: Hot dip galvanized steel, tamper-proof type.
- D. FABRICATION
- Form surfaces flat without distortion. Weld and grind joints smooth.
- Shop assemble components and package with anchors and fittings.
- Back paint components to prevent electrolysis.
- Provide steel anchor plates, adapters, and anchor components for installation.
- Hot dip galvanize exposed and painted ferrous metal and fastening devices.
- Locks shall be keyed alike for each type of accessory; 2 keys shall be furnished for each lock or each group of accessories keyed alike. Locks shall be the manufacturer's standard locks.
- E. FINISHES
- Anchors: Galvanize to 1.25 oz/sq yd.
- Ferrous Metals - Shop Primed: Pretreat and clean, spray apply one coat primer and bake.
- Enamel: Pretreat, one coat primer and two coats baked enamel.
- Chrome/Nickel Plating: ASTM B456, Type SC2; satin finish.
- Stainless Steel: No. 6 satin luster finish.
- F. EXAMINATION AND PREPARATION
- Verify exact location of accessories for installation.
- Verify that site conditions are ready to receive work and dimensions are as indicated on shop drawings and as instructed by the manufacturer.
- Deliver inserts and rough-in frames to site. Provide templates, setting drawings, instructions and rough-in measurements as required. Coordinate delivery with the work and schedule of other sections.

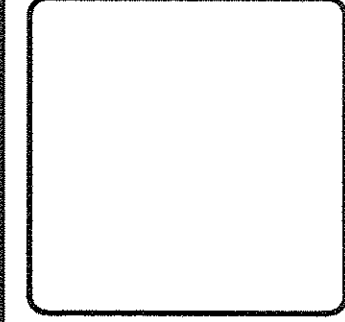
6. INSTALLATION
- Install accessories in accordance with manufacturer's published instructions, and the 2013 California Building Code, The Americans With Disabilities Act (ADA) and ANSI A117.1.
- Install plumb and level, securely and rigidly anchored to substrate.
- Recessed accessories shall be fastened to studs or solid blocking or back-up plates in framed construction; or to a rough frame blocking or with screws into expansion anchors in masonry or concrete construction. Surface mounted accessories shall be installed with screws into solid blocking or back-up plate in framed construction; or with screws into expansion anchors in masonry or concrete construction.
- Where a toilet and bath accessory is required to be installed with the unit partially above and partially below (straddling) a wainscot, a continuous wood filler/spacer shall be installed along all exposed edges above the wainscot. Provide clear heart, kiln dried, redwood with mitered corners of same thickness as wainscot and nominal 2" wide. Paint to match adjacent wall.
- H. SCHEDULE
- Paper Towel Dispenser/ Surface Mounted, Bobrick B-2621
- Framed Mirror: Bobrick B-290 2436
- Toilet Tissue Dispenser: Recessed, Bobrick B-297
- Toilet Seat Cover Dispenser: Surface Mounted, Bobrick B-221
- Grab Bars: Back of toilet Bobrick B-6006-36
Side of toilet, Bobrick B-6006-42
- Soap Dispenser: Provided by Owner, Installed by Contractor.

O.S.H.P.D. PROJECT #S141690-56

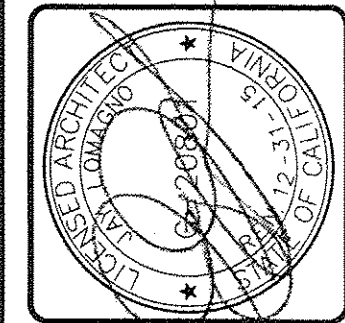
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8/18/14

COUNTY OF VENTURA
PUBLIC WORKS AGENCY
ENGINEERING SERVICES DEPARTMENT

PROJECT MANAGER	
SPEC. NUMBER	SHEET OF 6 13
PROJECT NUMBER	DRAWING NUMBER



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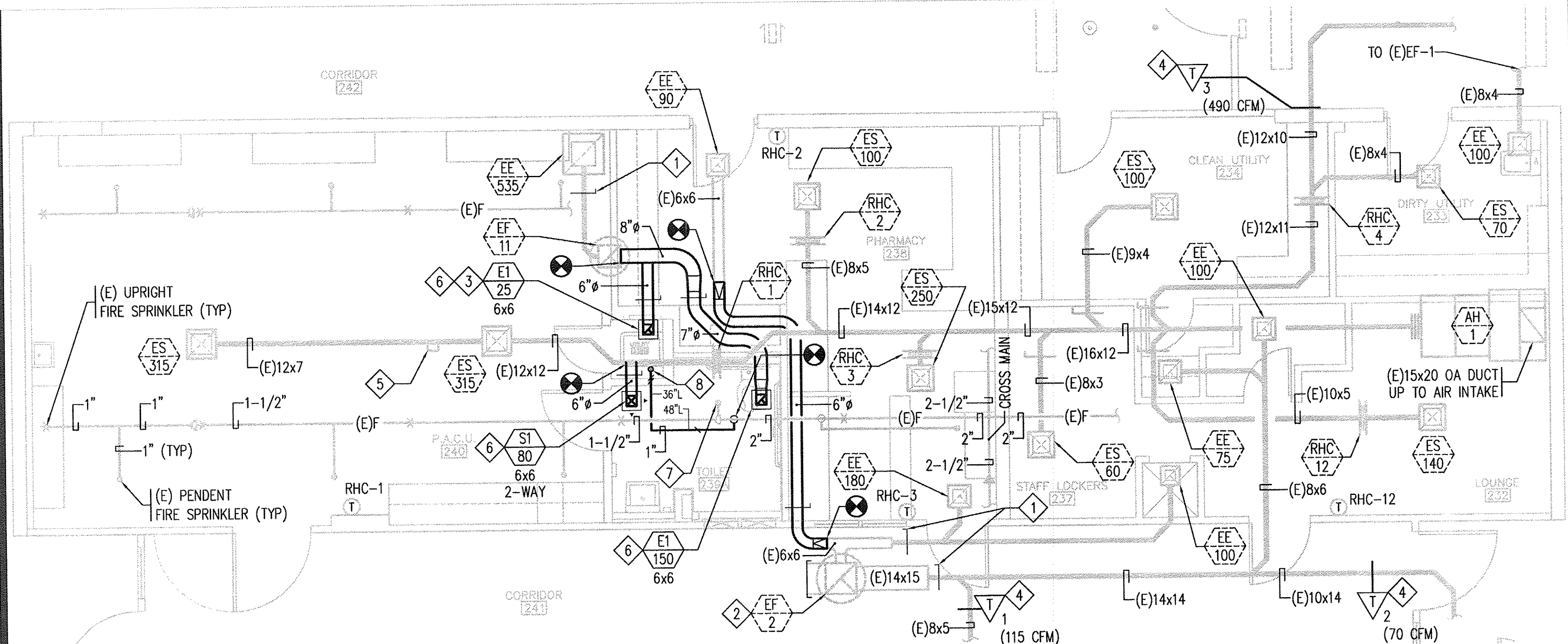


Sheet Title	R&A No: 900825
Revisions	Date: 08/08/14
	Drawn: XX
	Checked: XX
	Consult: No.

P.A.C.U. TOILET
SANTA PAULA HOSPITAL
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Sheet No.
A5

1/16/2013 10:00 AM
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FIRE SPRINKLER NOTES

- MODIFY EXISTING AUTOMATIC FIRE SPRINKLER SYSTEM IN THE BUILDING AND ADD A FIRE SPRINKLER AS SHOWN. EXISTING SYSTEM SIZED BASED ON THE PIPE SCHEDULE METHOD. ADDED FIRE SPRINKLER CONFORMS TO SIZING FOR PIPE SCHEDULE METHOD IN NFPA 13, 2013 EDITION, SECTION 23.5.
- OCCUPANCY GROUP: I-2
CONSTRUCTION: TYPE III-A FULLY SPRINKLERED
OCCUPANCY CLASSIFICATION: LIGHT HAZARD OCCUPANCY
- MATERIALS:
A. STEEL PIPE: ASTM A135/A795, SCHEDULE 40, WELDED AND SEAMLESS, BLACK STEEL PIPE, AND PLAIN ENDS.
B. MALLEABLE-IRON THREADED FITTINGS: ANSI B 16.3, CLASS 150, AND STANDARD PATTERN, FOR THREADED JOINTS. THREADS SHALL CONFORM TO ANSI B 1.20.1.
C. FIRE SPRINKLER: RELIABLE MODEL G, PENDENT TYPE, STANDARD-RESPONSE, 1/2-INCH ORIFICE, 165°F, CHROME-PLATED, K=5.6, SIN R1015. PROVIDE CHROME PLATED TWO-PIECE ESCUTCHEON.
- INSTALLATION:
A. INSTALL SCHEDULE 40 STEEL PIPE WITH THREADED JOINTS AND FITTINGS.
B. DRAWINGS INDICATE THE GENERAL LOCATION AND ARRANGEMENT OF PIPING SYSTEMS. SO FAR AS PRACTICAL, INSTALL PIPING AS INDICATED.
C. INSTALLATION SHALL CONFORM TO NFPA 13, 2013 EDITION.
D. INSTALL SPRINKLER PIPING TO PROVIDE FOR SYSTEM DRAINAGE IN ACCORDANCE WITH NFPA 13, 2013 EDITION.
E. USE APPROVED FITTINGS TO MAKE ALL CHANGES IN DIRECTION, BRANCH TAKEOFFS FROM MAINS, AND REDUCTIONS IN PIPE SIZES.
F. HANGERS AND SUPPORTS: COMPLY WITH THE REQUIREMENTS OF NFPA 13, 2013 EDITION. PROVIDE PROTECTION FROM DAMAGE WHERE SUBJECT TO EARTHQUAKE IN ACCORDANCE WITH NFPA 13, 2013 EDITION.
G. THE SYSTEM SHALL BE TESTED IN THE PRESENCE OF THE INSPECTOR OF RECORD AND THE ENFORCING AGENCY.
H. SUBMIT CONTRACTOR'S MATERIAL AND TEST CERTIFICATE FOR ABOVEGROUND PIPING PER NFPA 13, 2013 EDITION.

LEGEND

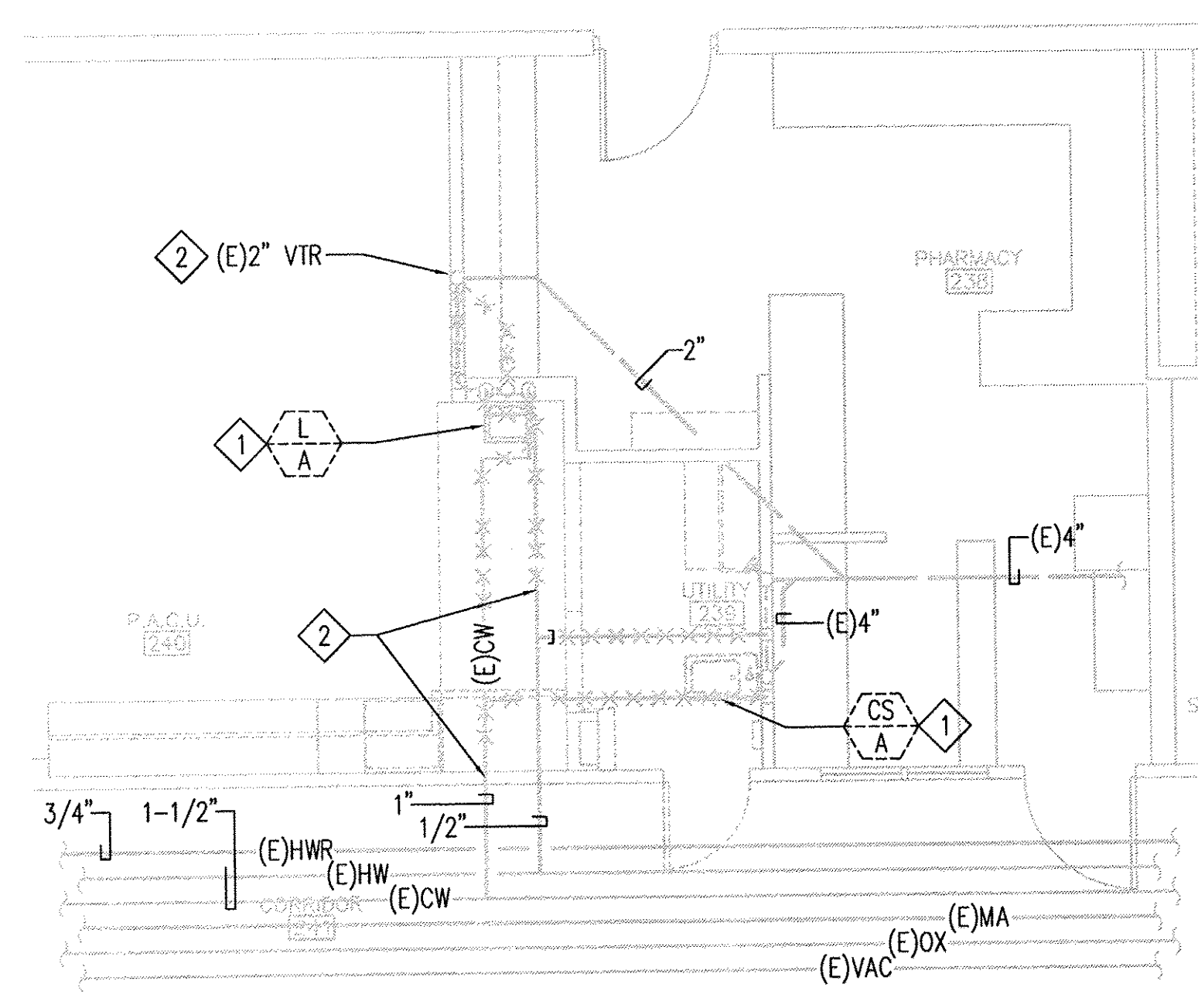
SYMBOL	ABBREVIATION	DESCRIPTION
---	CW	COLD WATER (POTABLE)
---	HW	HOT WATER (POTABLE)
---	HWR	HOT WATER RETURN (POTABLE)
---	S OR W	SANITARY SOIL/WASTE BELOW FLOOR/GRADE
---	V	VENT (PLUMBING)
---	F	FIRE SPRINKLER WATER
---	OX	OXYGEN
---	VAC	VACUUM
---	MA	MEDICAL AIR
---		EXISTING PIPING TO BE REMOVED
---	GV	GATE VALVE
---	BV	BALL VALVE
---		PIPE TURNS DOWN
---		PIPE TURNS UP
---		PIPE TEE DOWN
---	FCO/GCO	FLOOR CLEANOUT/GRADE CLEANOUT
---	WCO	WALL CLEANOUT
---	WHA	WATER HAMMER ARRESTER
---	SA	SUPPLY AIR DUCT SECTION
---	EA	EXHAUST AIR DUCT SECTION
---		DUCT RISE
---		DUCT DROP
---		TURNING VANES
---	MVD	MANUAL VOLUME DAMPER
---	RHC-1	EXISTING ROOM T'STAT/SENSOR (ZONE NO.)
---		EXISTING DUCTWORK
---		PIPE OR DUCT CAP
---		PIPE HANGER
---		PIPE HANGER WITH END OF LINE BRACE
---	POC	POINT OF CONNECTION
---		NUMBERED NOTES
---		EXISTING FIXTURE/EQUIPMENT TAG
---		DUCT TRAVERSE LOCATION (# = SEQ. NO.)
---	VTR	VENT THROUGH ROOF
---	DTR	DUCT THROUGH ROOF
---	TYP. OR (TYP)	TYPICAL
---	E OR (E)	PREFIX INDICATING EXISTING
---	AFF	ABOVE FINISH FLOOR
---	OA	OUTSIDE AIR

NUMBERED NOTES:

- (THIS DRAWING ONLY)
- INSTALL VOLUME DAMPER IN EXISTING DUCT.
 - REPLACE SHEAVES AND BELT ON EXISTING EXHAUST AIR FAN AND SET TO REQUIRED AIR QUANTITY.
 - COORDINATE LOCATION OF AIR INLET WITH LUMINAIRE.
 - TRAVERSE DUCTWORK AND ADJUST SYSTEM TO PROVIDE INDICATED AIR QUANTITY AT THIS LOCATION.
 - REMOVE ABANDONED HOUSING, PATCH EXISTING DUCT, AND SEAL AIRTIGHT. REPAIR DUCT INSULATION.
 - INSTALL CEILING RADIATION DAMPER FOR DIFFUSER/REGISTER CEILING PENETRATION, SEE DETAIL 6 ON SHEET M2.
 - REPLACE ESCUTCHEON ON EXISTING FIRE SPRINKLER TO COORDINATE WITH CEILING WORK.
 - INSTALL PENDENT SPRINKLER WITH ESCUTCHEON. CONNECT AS SHOWN. PROVIDE HANGERS AS SHOWN AND END OF LINE RESTRAINT, REFER TO DETAIL 5 ON SHEET M2. POSITION SPRINKLER DEFLECTOR BELOW BOTTOM OF LUMINAIRE LENS.

22 PARTIAL FIRST FLOOR HVAC AND FIRE SPRINKLER PLAN

SCALE 1/4" = 1'-0"

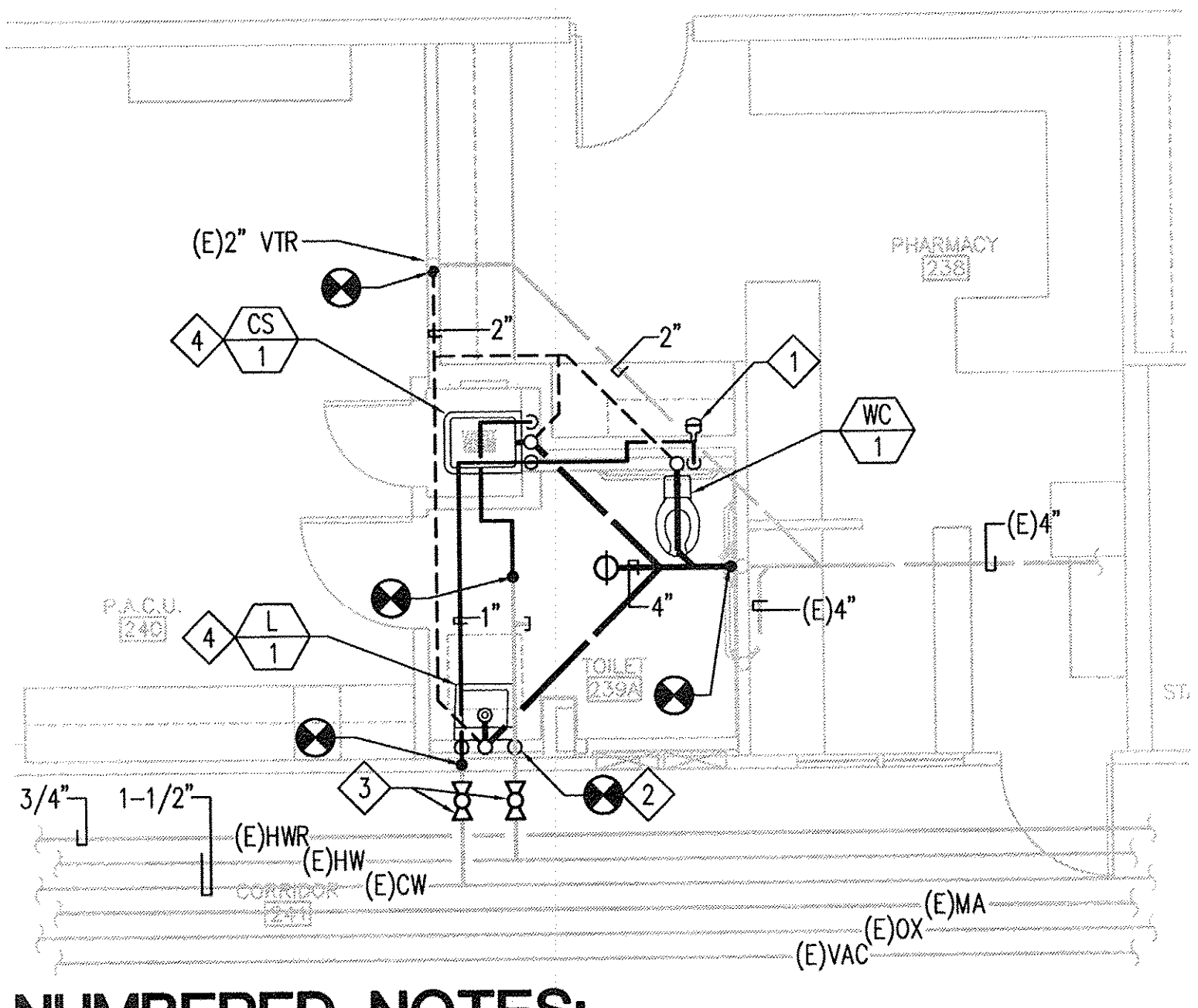


NUMBERED NOTES:

- (THIS DRAWING ONLY)
- REMOVE EXISTING PLUMBING FIXTURE AND SUPPORTS. CAP PIPING ABOVE CEILING AND BELOW FLOOR.
 - POINT OF CONNECTION FOR THIS WORK.

24 PARTIAL FIRST FLOOR PLUMBING DEMO PLAN

SCALE 1/4" = 1'-0"

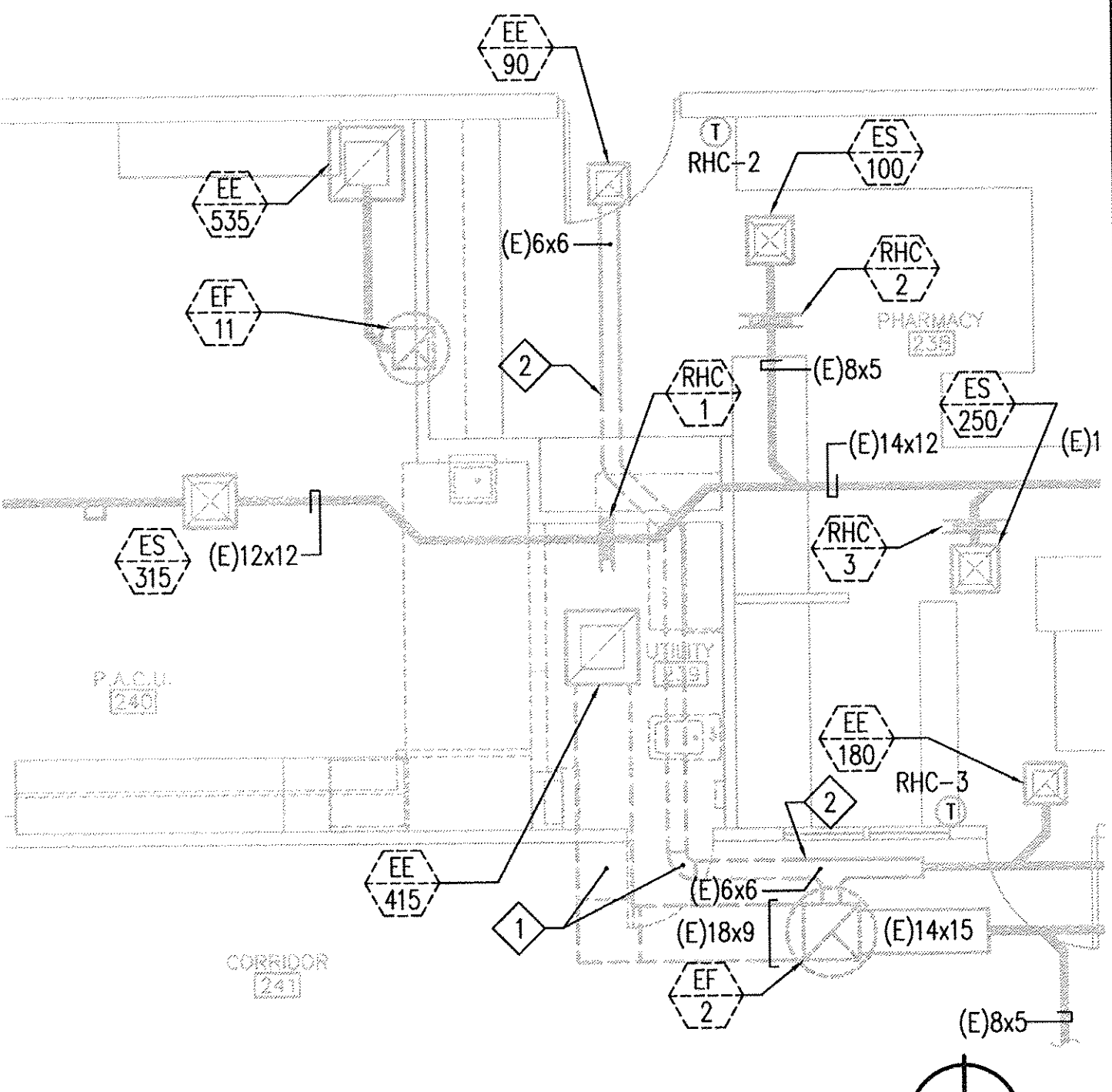


NUMBERED NOTES:

- (THIS DRAWING ONLY)
- INSTALL WATER HAMMER ARRESTER IN ACCESSIBLE LOCATION ABOVE CEILING.
 - CONNECT TO HOT WATER DROP TO LAVATORY.
 - INSTALL VALVE IN EXISTING 1" COLD WATER AND 1/2" HOT WATER BRANCH PIPING.
 - INSTALL WALL CLEANOUT BELOW FIXTURE.

20 PARTIAL FIRST FLOOR PLUMBING PLAN

SCALE 1/4" = 1'-0"



NUMBERED NOTES:

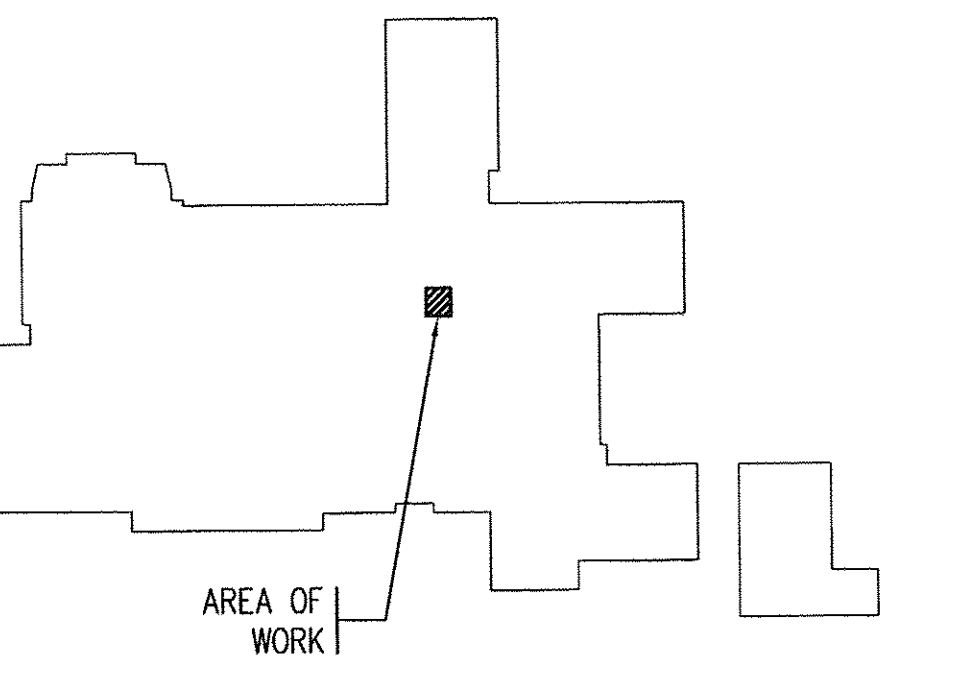
- (THIS DRAWING ONLY)
- REMOVE EXISTING DUCTWORK AND REGISTER, CAP WHERE INDICATED.
 - POINT OF CONNECTION FOR THIS WORK.

12 PARTIAL FIRST FLOOR HVAC DEMO PLAN

SCALE 1/4" = 1'-0"



8 KEY PLAN



O.S.H.P.D PROJECT # S141690-56

COUNTY OF VENTURA
 PUBLIC WORKS AGENCY
 ENGINEERING SERVICES DEPARTMENT
 PROJECT MANAGER
 SPEC. NUMBER SHEET 7 OF 13
 PROJECT NUMBER DRAWING NUMBER

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Sheet LEGEND, HVAC AND PLUMBING
 Title FLOOR PLANS
 Revisions
 REA No: 900825
 Date: 08/09/14
 Drawn:
 Checked:
 Consult: No:

P.A.C.U. TOILET
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Sheet No.
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EXISTING AIR HANDLING UNIT

UNIT TAG	DUTY	CFM	ESP	FAN				MOTOR NAMEPLATE				COILS			FILTERS		OA CFM	TYPE	REMARKS
				SP	RPM	BHP	RPM	HP	V	HZ	PH	PHC	CC	HC	PRE	FINAL			
AH 1	PACU, PHARMACY, CORE AREAS	1,870	0.93	1.9	1,174	-	1740	1-1/2	208	60	3	-	Y	Y	30%	90%	1,870	HORIZONTAL DRAW-THRU	

EXISTING FANS

UNIT TAG	DUTY	CFM	FAN				MOTOR NAMEPLATE				TYPE	MANUFACTURER AND MODEL NO.	REMARKS	
			SP	RPM	BHP	RPM	HP	V	HZ	PH				
EF 2	PHARMACY, CORE AREAS	730	0.52	679	-	1725	3/4	120	60	1	1	DOME TYPE ROOF EXHAUSTER	JENN-AIR 222 CKA	
EF 11	PACU	710	0.125	850	-	850	1/12	120	60	1	1	DOME TYPE ROOF EXHAUSTER	JENN-AIR 182 CR ACG	

PLUMBING FIXTURES

UNIT TAG	FIXTURE	MINIMUM CONNECTIONS (IN.)					FIXTURE		TRIM		REMARKS
		S/W	VENT	DRAIN	CW	HW	DESCRIPTION	MANUF. & NO.	DESCRIPTION	MANUF. & NO.	
WC 1	WATER CLOSET	4	2	-	1	-	VITREOUS CHINA, WALL HUNG, ELONGATED BOWL, TOP SPUD, ADA COMP., COLOR: WHITE, SEAT: CENTOCO 15005SCCSS.	AMERICAN STANDARD 3351.001	1.28 GPF FLUSH VALVE, CHROME PLATED, SENSOR OPER. BATT. PWD.	SLOAN OPTIMA PLUS 8111-1.28	PROVIDE J. R. SMITH 0440Y SERIES FIXTURE CARRIER, PPP SC-750 WATER HAMMER ARRESTOR.
L 1	LAVATORY	2	1-1/2	-	1/2	1/2	VITREOUS CHINA, WALL HUNG, GRID DRAIN, ADA COMPLIANT, COLOR: WHITE, BOWL: 15"Wx10"FBx6-1/2"D, 1-HOLE.	AMERICAN STANDARD 0356.421	SENSOR OPER., BATT. PWD., G'NECK SPOUT, SPRAY OUTLET, 0.5 GPM	CHICAGO 116.213.AB.1	PROVIDE J. R. SMITH FIG. 720, CONCEALED ARMS, FIXTURE CARRIER, CHICAGO 1013 ABCP STOPS.
CS 1	CLINIC SINK	4	2	-	1	1/2	VITREOUS CHINA, WALL HUNG, BLOW-OUT, FLUSHING RIM, COLOR: WHITE. STAINLESS STEEL RIM GUARD.	AMERICAN STANDARD 9512.013	6.5 GPF FLUSH VALVE, CHROME PLATED, LEV. HANDLE	SLOAN 117-H	PROVIDE J. R. SMITH FIG. 0630 FIXTURE CARRIER, CHICAGO 815-VBCP FAUCET.

DIVISION 15 MECHANICAL SPECIFICATIONS

I. GENERAL

1.01 The scope of Work consists of complete and operating HVAC, plumbing, and fire protection systems for the remodel area: A. Furnish and install HVAC system components including all ductwork, appurtenances, and supports as required for an operating system. Relocate equipment and components as required. B. Furnish and install plumbing system components including all piping, fixtures, trim, appurtenances, and supports as required for an operating system. Relocate equipment and components as required. C. Furnish and install fire protection system components including all piping, sprinklers, appurtenances, and supports as required for an operating system. Relocate equipment and components as required. D. Remove abandoned supports, piping, and ductwork. E. Verify operation and performance of systems. Test all systems for leaks.

1.02 Comply with the current applicable codes and regulations including, but not limited to, the 2013 California Building, Mechanical, and Plumbing Codes.

1.03 Perform work in accordance with the referenced standards:

A. Associated Air Balance Council (AABC).
B. Manufacturer's Standardization Society (MSS).
C. National Fire Protection Association (NFPA).
D. Sheet Metal and Air Conditioning Contractors National Association (SMACNA).
E. American Welding Society (AWS).

1.04 Coordinate working hours with the Owner to minimize the impact the construction will have on the facility's occupants and staff. Follow phasing instructions and minimize downtime. Provide temporary connections to systems so that completed work can be placed into service and completed areas occupied. Coordinate with the activities of the facility maintenance staff. Review contract documents and technical specifications for extent of work, relationship of demolition, and work to be provided. Examine all existing conditions at building site. Verify all dimensions by field measurements. Do not fabricate any work using these documents as the only reference. Arrange for chases, slots, and openings in other building components to allow for mechanical installations. Include the cutting and patching of building components to accommodate the installation of mechanical equipment and materials. Patching shall match existing surfaces for materials, finish, and color. Where mounting heights are not detailed or dimensioned, arrange mechanical work and overhead installations to provide the maximum clearance possible. All material and equipment installed for this Work shall be new unless indicated otherwise. The Contractor shall notify the Architect at once should any discrepancy or apparent differences occur.

1.05 Submit six complete copies of product data and installation instructions for all products and materials that will be used on this project. Submittals shall be marked to indicate material submitted and options selected.

1.06 The Owner shall obtain the building permit from OSHDP. Work shall not commence until a valid building permit has been issued. Additional permits related to this Work shall be obtained by the Contractor.

1.07 While work is in progress, except for designated short intervals during which connections are made, continuity of service shall be maintained to all existing systems. Interruption of mechanical building services and utilities considered to be critical to the operation of the facility shall be performed only at approved times, during the hours from 12:00 midnight to 4:00 a.m., with a maximum interruption of four hours. Interruption of services and utilities considered to be non-critical may be performed during normal working hours at approved times and durations, unless noted otherwise. Prior to interrupting a service or utility, have adequate materials and labor readily available so that the work can be completed without delay and the service or utility restored within the approved schedule. Include required temporary provisions to maintain services and utilities that cannot be interrupted at any time. Submit request for interruption of service or utility a minimum of seven days prior to the planned interruption.

1.08 Install mechanical equipment and systems to facilitate maintenance and repair or replacement of equipment components. Coordinate final locations for rough-ins with field measurements and with the requirements of the actual devices to be connected. Refer to contract documents for rough-in requirements. Coordinate the installation of mechanical materials and equipment with ceiling suspension system, luminaires, and other installations.

1.09 Provide complete and accurate record drawings both during construction and before final acceptance. All costs associated with the preparation of the record documents shall be included under this Work. Obtain at cost, from the Owner, a complete set of applicable full-size prints. Mark prints to indicate revisions to piping and ductwork, size and location, locations of control devices and similar units requiring periodic maintenance or repair, actual equipment locations dimensioned from column lines, actual dimensions of mains and branches of piping systems from column lines, and work included in Change Orders. Indicate location and depth or invert of underground piping installed as part of this Work and existing underground piping uncovered during the installation of this Work. The Inspector of Record shall approve and sign the record prints. Submit neat and readable copies of these record prints for review and acceptance.

1.10 Field prime and finish paint all exposed work of Division 15 that is not provided with a factory finish. Painting shall be performed as specified in Section 9.05 of the architectural specifications.

1.11 Contractor shall visit the job site before submitting a bid to determine the scope of the demolition work, and to become familiar with the existing conditions that affect the Work and therefore the bid. Remove all equipment, materials, supports, and appurtenances for all items indicated demolished. Remove all abandoned piping, ductwork, supports, equipment, and appurtenances, except where removal affects existing equipment and systems that remain. Cap open ends of piping and ductwork that remain. Perform all work required for relocation and extension of mechanical systems to clear the area of demolition and for the installation of this Work. Legally dispose of all demolished materials, equipment, and debris.

1.12 Perform all mechanical tests as required or as directed including tests indicated by the installation instructions provided with the products and materials supplied. Provide all materials, labor, and equipment necessary for performance of these tests. At the completion of the work, perform a complete "in-service" operation of all systems installed or modified as part of this work, to show compliance with the Drawings and Specifications. Replace any work shown to be faulty under test without additional cost.

1.13 Upon completion of the Work, perform final cleaning. Clean the area of all debris. Remove shipping and other non-permanent labels. Wipe surfaces of mechanical materials, equipment, and devices clean. Clean all plumbing fixtures to a sanitary condition. Touch up paint on all finished surfaces.

1.14 Provide a one-year material and labor warranty for all Work of this project from the date of Owner acceptance. Warranty shall cover leaks, breaks, or failure to perform intended function. Submit written warranty statement.

II. PRODUCTS AND MATERIALS

2.01 Piping and Fittings

A. Aboveground Cold Water and Hot Water Supply and Return: Type L hard drawn seamless copper tubing conforming to ASTM B88-03. Fittings shall be wrought copper conforming to ANSI/ASME B16.22-01 with lead-free solder joints.

B. Aboveground Sewer, Waste, and Vent: Hubless cast iron soil pipe conforming to CISPI 301-05 and ASTM A888-04a. Fittings shall be hubless cast iron pipe conforming to CISPI Standard 301-04a and ASTM A888-04a. Couplings shall be heavy-duty stainless steel conforming to CISPI 310-04 and ASTM G514-04. Hubless coupling gaskets shall conform to ASTM Standard C564-03a.

C. Belowground Sewer, Waste, and Vent: Hubless cast iron soil pipe conforming to CISPI 301-04a and ASTM A888-04a. Fittings shall be hubless cast iron pipe conforming to CISPI Standard 301-04a and ASTM A888-04a. Couplings shall be with heavy-duty cast iron. Hubless coupling gaskets shall conform to ASTM Standard C564-03a.

2.02 Piping Specialties

A. Escutcheons: Chrome plated, stamped steel, split ring escutcheon. Inside diameter shall closely fit outside diameter of pipe or outside diameter of insulation on insulated pipes. Outside diameter shall completely cover the hole in the penetrated surface. Manufacturers: Chicago Specialty Manufacturing Co. or Sanitary-Desh Manufacturing Co.

B. Dielectric Fittings: Electroplated steel or brass nipple with an inert thermoplastic liner. Manufactured in accordance with ASTM F 492 for continuous use at 300 psig and 225°F. Liner shall be NSF/FDA listed. Manufacturers: Perfection Corporation.

2.03 Valves

A. Ball Valves (2" and smaller): Bronze construction with three piece body, blowout proof stem, full port, and bronze trim. Rated at 150 psi saturated steam and 600 psi non-shock water, oil, or gas. Manufacturer: Nibco T-595-Y.

2.04 Supports and Hangers

A. Provide clevis type pipe supports with threaded rods and building attachments for suspended piping. Provide pipe clips where piping is attached to the structure. Provide riser clamps for piping installed in the vertical position. Hangers, clips, and clamps for copper pipe shall be copper plated. Provide trapeze type metal framing channel supports for multiple pipes. Manufacturer: B-line, Powerstrut, Tolco, or equal.

1. Plumbing Piping shall have support spacing in accordance with the California Plumbing Code.

2. Fire Sprinkler Piping shall have support spacing in accordance with NFPA 13.

B. Provide 12 gauge steel, metal framing channel with green epoxy paint for interior installations. Provide fittings with green epoxy paint for interior installations. Fasteners shall conform to ASTM A307. All fasteners shall be grade-2 or higher and shall be lightened to manufacturer's recommended values. Minimum torque for 3/8" diameter bolts is 19 ft.-lbs. Minimum torque for 1/2" diameter bolts is 50 ft.-lbs. Manufacturer: Cooper B-Line, Power-Strut, or equal.

2.05 Insulation

A. Insulation Materials:

Fiberglass Pipe Insulation: ASTM C 547, Type I, and ASTM C 1136.

Flexible Fiberglass Blanket Insulation (75 PCF): ASTM C 553, Type I, Class B-2.

Insulation shall have a flame spread index of less than 25 and a smoke developed index of less than 50 as tested by ASTM E 84.

B. Insulation Accessories: Provide staples, bands, wires, tape, anchors, corner angles, and similar accessories as recommended by insulation manufacturer for applications indicated.

C. Insulation Compounds: Provide cements, adhesives, coatings, sealers, protective finishes, and similar compounds as recommended by insulation manufacturer for applications indicated.

2.06 Plumbing Fixtures

A. Plumbing Fixtures: Provide plumbing fixtures as scheduled complete with carriers, supports, and trim, including chrome plated loose key stops, chrome plated p-traps, chrome plated trap arms, and chrome plated tailpieces. Trim shall be Chicago unless indicated otherwise. Carriers shall be J.R. Smith or equal by J.R. Smith. Floor cleanouts shall be J.R. Smith Figure 4032L or 4052L or equal by Zurn. Wall cleanouts and covers shall be J.R. Smith Figure 4505-4710 or equal by Zurn.

2.07 Ductwork and Accessories

A. All indicated duct sizes are inside, free area, dimensions. Fabricated ductwork dimensions shall be increased to provide inside free area dimensions wherever duct lining is indicated.

B. Construct rigid ducts using ASTM A653M-2003 G90 sheet metal in accordance with recommendations of the ASHRAE Guide, SMACNA 1985 HVAC Duct Construction Standards Metal and Flexible, NFPA 90A, and the California Mechanical Code. Turn all exposed edges for both strength and appearance, file the sheet metal closely and neatly together, and furnish all necessary ribs, chills, stiffeners, and other reinforcements required to make all sections rigid and substantial. Cross-break all flat surfaces for stiffening. Seal all seams and joints.

C. Balancing Dampers: Round ducts and rectangular ducts with maximum dimension 16" or smaller, butterfly type with quadrant locks and fabricated according to SMACNA standards.

2.08 Supply, Return, and Exhaust Air Distribution

Steel construction with perforated face, integral pattern controls, and volume controls. Finish shall be factory electro-coated, off-white. All surfaces behind face shall be painted flat black. Touch up scratches in field. See drawings for sizes and specific requirements. Manufacturer: Anemostat Products Division/Dynamics Corporation of America, Carnes, or equal.

III. EXECUTION

3.01 Install equipment and appurtenances in strict accordance with manufacturer's directions and applicable code requirements. Exercise care during installation and to protect finished surfaces of equipment, fixtures, trim, and appurtenances. Make connections using proper tools and do not leave marks on visible surfaces.

3.02 Install work uniform, level, and plumb in relation to lines of building. Do not install any diagonal or otherwise irregular work unless so indicated on Drawings or approved by the Owner.

3.03 Trenching

A. Furnish all labor, materials, and equipment necessary to accomplish all earthwork for mechanical utilities as indicated on the drawings and as specified. Protect and preserve in operating condition all active utilities. Promptly repair any damage to such utilities due to Work under this contract. Restore any improvements damaged by this Work to their original condition, as acceptable to the Architect and at no cost to the Owner. Noise shall be kept at a reasonable level as related to specific items of equipment used and their hours of use.

3.04 General Piping Installation

A. Install pipe, tube, fittings, fixtures, and equipment in accordance with recognized industry practices, which will achieve permanently leakproof systems, capable of performing each indicated service without failure. Install each run with minimum joints and couplings. Align piping accurately at connections, within 1/16" misalignment tolerance. Use fittings for all changes in direction. Install piping at slopes required by code and as required for operation of the piping system.

B. Threaded joints shall be made with pipe joint compound. Comply with ANSI/ASME B1.20.1 for piping threading.

C. Solder and brazed joints shall be made with high temperature compounds. Clean surfaces to be joined of all oil, grease, and oxides. Clean socket of fitting and end of pipe thoroughly. After cleaning and before assembly apply flux to joint surfaces and spread evenly.

D. Clean exterior of piping systems and prepare for application of specified coatings. Flush piping for plumbing systems with clean water before proceeding with testing.

E. Inspect each run of each system for completion of joints, supports, and accessory items. Inspect pressure piping in accordance with procedures of ANSI B 31.

F. Test each plumbing piping system in accordance with the requirements of the California Plumbing Code.

G. Dissimilar metals used for pipes and supports shall be isolated using formed metal and felt isolators or other acceptable method. Dissimilar piping materials shall be isolated with dielectric fittings and unions.

H. Install escutcheons at each location where a pipe penetrates a finished surface.

I. Where pipes pass through fire rated walls, partitions, ceilings, or floors, the fire rated integrity shall be maintained.

3.05 Hangers and Supports

A. Supports for piping shall comply with the California Plumbing Code. Support piping at each change in direction, at the bottom of risers, at drops, at connection to fixtures or equipment, and wherever necessary to prevent sagging, bending, or vibration.

B. Supports for ducts shall be in accordance with the California Mechanical Code and the SMACNA 1985 HVAC Duct Construction Standards Metal and Flexible. Maximum spacing between duct supports shall be 8 feet.

C. Provide seismic bracing for all ductwork and piping, as required by the California Building Code.

D. Support ductwork and piping directly from the building structure. Attach pipe supports to structure according to the seismic restraint data by the manufacturer.

3.06 Insulation

A. General Installation: Clean and dry all surfaces to be insulated prior to insulating. Repair insulation that is damaged by this Work. Repair of insulation shall be performed with materials and methods that match the existing installation. Patch existing insulation at points of connection with materials and methods that match the existing installation. Patching shall provide continuous insulation and vapor barrier between existing installation and this Work.

B. Piping Insulation:

1. Insulate hot plumbing piping systems (ambient to 120°F) including hot water and hot water return:

a. Fiberglass Pipe Insulation:

Thickness Pipe Size
1.0" 0' through 2"
2. Insulate supplies and drains for accessible lavatories and sinks with 3/4" premoled fiberglass insulation sections with PVC covers. Insulation shall be removable.

3. Cover valves, fittings, and similar items in each piping system with equivalent thickness and composition of insulation as applied to adjoining pipe run. Install job fabricated metal piping.

AIR DISTRIBUTION

UNIT TAG	DESCRIPTION	PANEL SIZE	MANUFACTURER AND MODEL NO.
S1	PERFORATED FACE SURFACE MOUNTING	-	ANEMOSTAT PAC-F
E1	PERFORATED FACE SURFACE MOUNTING	-	ANEMOSTAT 3PD-F

S = SUPPLY
R = RETURN
E = EXHAUST
T = TRANSFER

E = EXISTING
S = SUPPLY
R = RETURN
E = EXHAUST
T = TRANSFER

S1- ITEM NUMBER
120- CFM
6x6- NECK SIZE
2-WAY- BLOW

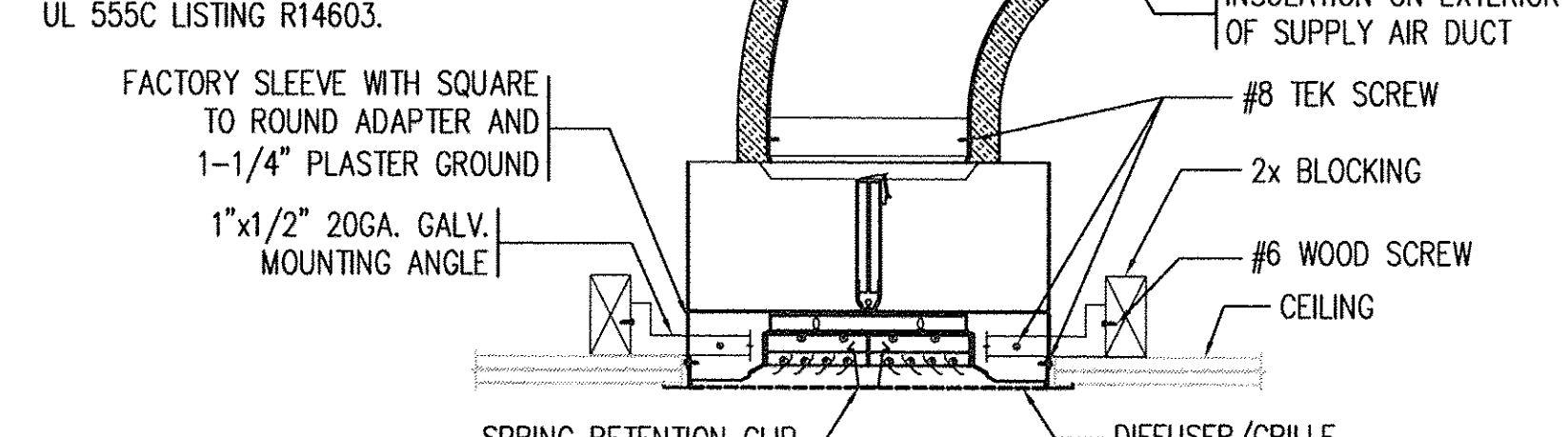
E1- REBALANCE EXISTING AIR DISTRIBUTION DEVICE TO INDICATED AIR QUANTITY

5 PIPE SUPPORT AND RESTRAINT



NOTES:

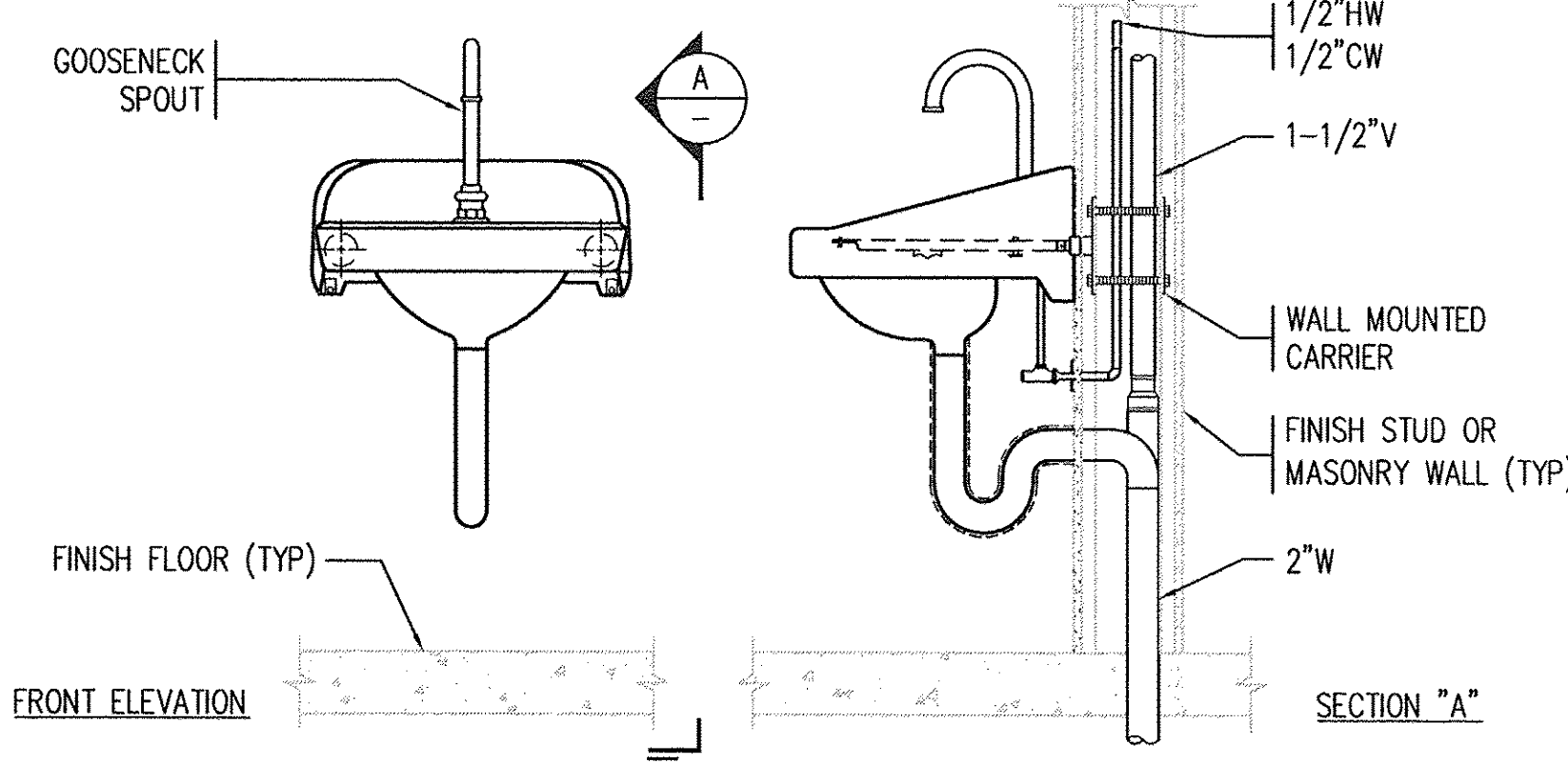
- INSTALL CEILING RADIATION DAMPER PER MANUFACTURER'S INSTALLATION INSTRUCTIONS.
- INSTALLATION INSTRUCTIONS SHALL BE ON SITE AND AVAILABLE TO THE INSPECTING AUTHORITY.
- CEILING RADIATION DAMPER SHALL BE POTTORFF, MODEL CFD-15, CSFM LISTING 3226-0368;104, UL 555C LISTING R14603.



6 CEILING RADIATION DAMPER



7 LAVATORY W/ SENSOR FAUCET



SEISMIC NOTES

PIPES, DUCTS, AND CONDUITS SHALL BE SUPPORTED AND BRACED PER OSHDP PRE-APPROVAL NO. OPM-0043-13, MASON INDUSTRIES, INC. "SEISMIC RESTRAINT COMPONENTS FOR SUSPENDED UTILITIES". A COPY OF THE OSHDP PRE-APPROVED DOCUMENTS SHALL BE AT THE JOB SITE AT ALL TIMES. INSTALLATION OF THIS EQUIPMENT MUST BE DONE IN STRICT ACCORDANCE WITH THE PRE-APPROVED DOCUMENTS.

LAYOUT DRAWINGS, SHOWING THE BRACING/SUPPORT LOCATIONS AND REFERENCES TO DETAILS FROM THE RELEVANT OSHDP PRE-APPROVALS FOR PIPING/DUCTS/CONDUITS EXCEPT FIRE SPRINKLERS, SHALL BE SUBMITTED FOR USE BY THE IOR AND OFFICE FIELD STAFF. THE LAYOUT DRAWINGS SHALL BE REVIEWED AND ACCEPTED BY THE AOR AND EOR (SE AND/OR ME/EE) PRIOR TO START OF INSTALLATION OF THE BRACING/SUPPORT. IOR SHALL ENSURE THE ABOVE REQUIREMENTS ARE SATISFIED.

ANCHORAGE AND SUPPORTS OF ALL EQUIPMENT TO BE INSTALLED AS A PART OF THIS PROJECT SHALL BE DETAILED ON CONSTRUCTION DOCUMENTS, EXCEPT THOSE EXEMPT BY 2013 CBC SECTION 1616A.118. EQUIPMENT SUPPORTS AND ANCHORAGE SHALL BE APPROVED BY THE APPROPRIATE DESIGN PROFESSIONAL OF RECORD AND OSHDP AS PART OF FIELD REVIEWS/OBSERVATIONS. THE INSPECTOR OF RECORD (IOR) SHALL ASSURE THAT THE ABOVE REQUIREMENTS ARE ENFORCED.

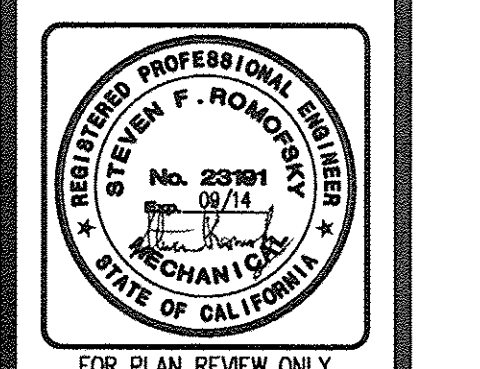
EXPANSION ANCHORS FOR USE IN CONCRETE IN DRY LOCATIONS SHALL BE HILTI CARBON STEEL KWIK BOLT TZ WEDGE ANCHORS. EXPANSION ANCHORS FOR USE IN CONCRETE IN DAMP AND WET LOCATIONS SHALL BE HILTI STAINLESS STEEL KWIK BOLT TZ WEDGE ANCHORS. EXPANSION ANCHORS FOR USE IN GROUT FILLED MASONRY IN DRY LOCATIONS SHALL BE SIMPSON WEDGE-ALL CARBON STEEL WEDGE ANCHORS. EXPANSION ANCHORS FOR USE IN GROUT FILLED MASONRY IN DAMP AND WET LOCATIONS SHALL BE SIMPSON WEDGE-ALL, MECHANICALLY GALVANIZED, CARBON STEEL WEDGE ANCHORS. PROVIDE ANCHORS OF DIAMETER AND MINIMUM EMBEDMENT INDICATED. DRY LOCATIONS ARE DEFINED AS LOCATIONS NOT NORMALLY SUBJECT TO DAMPNES OR WETNESS. DAMP LOCATIONS ARE DEFINED AS PARTIALLY PROTECTED LOCATIONS UNDER CANOPIES, MARQUEES, ROOFED PORCHES, AND LIKE LOCATIONS AND INTERIOR LOCATIONS SUBJECT TO MODERATE DEGREES OF MOISTURE, SUCH AS SOME BASEMENTS. WET LOCATIONS ARE DEFINED AS INSTALLATIONS UNDERGROUND OR IN CONCRETE SLABS OR MASONRY IN DIRECT CONTACT WITH THE EARTH, LOCATIONS SUBJECT TO SATURATION WITH WATER OR OTHER LIQUIDS, AND LOCATIONS EXPOSED TO WEATHER AND UNPROTECTED.

O.S.H.P.D PROJECT # S141690-56

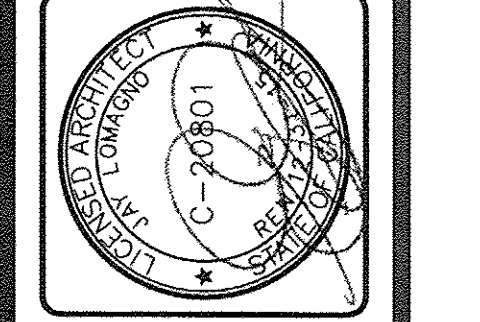
COUNTY OF VENTURA	
PUBLIC WORKS AGENCY	
ENGINEERING SERVICES DEPARTMENT	
PROJECT MANAGER	
SPEC. NUMBER	SHEET OF
PROJECT NUMBER	DRAWING NUMBER

8 13

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Sheet SCHEDULES, SPECIFICATIONS, Title DETAILS	
Revisions	
R&A No:	900825
Date:	08/08/14
Drawn:	
Checked:	
Consult:	No.

P.A.C.U. TOILET
SANTA PAULA HOSPITAL
825 NORTH 10TH STREET
SANTA PAULA, CA

Sheet No.
M2

20200808.DWG 20:45:01 8/18/14 4:39 PM RAS MUSSEN & ASSOCIATES, INC. RAS MUSSEN & ASSOCIATES, INC. 825 NORTH 10TH STREET SANTA PAULA, CA 95071 (805) 848-1234
 Rasmussen & Associates expressly reserves its common law, copyright and other property rights in these plans. These plans are not to be reproduced, changed or copied in any manner or form nor are they to be assigned to a third party without first obtaining written permission and consent of Rasmussen & Associates. In the event of the unauthorized reuse of these plans by a third party, the third party shall hold Rasmussen & Associates harmless. These drawings, including the designs incorporated herein, are instruments of professional service prepared for use in connection with the project identified hereon under the conditions existing on date shown in title block. Any use, in whole or in part, for any other project without written authorization of Rasmussen & Associates shall be at user's sole risk.

THE NUMBERS IN THE LOAD COLUMN OF THE PANEL SCHEDULES REFER TO THE CATEGORY NUMBERS IDENTIFIED BELOW. DEMAND FACTORS ARE APPLIED BASED ON THE 2013 CALIFORNIA ELECTRICAL CODE SECTION LISTED FOR EACH CATEGORY. THE PANEL SCHEDULE CALCULATED LOAD IS DETERMINED BY SUBTRACTING FROM THE CONNECTED LOAD THE AMOUNT ALLOWED BY CATEGORIES 2, 4, 7, AND 8. THE CONDUCTOR LOAD IS DETERMINED BY ADDING THE AMOUNTS REQUIRED BY CATEGORIES 1, 3, AND 6 TO THE CALCULATED LOAD.

1. CONTINUOUS LOAD (CEC 220-14D)
2. RECEPTACLE LOAD (CEC 220-14I)
3. MOTOR LOAD (CEC 220-14C)
4. KITCHEN EQUIPMENT LOAD (CEC 220-56)
5. CONNECTED LOAD (NON-CONTINUOUS LOAD WITH NO DEMAND FACTOR)
6. METERED LOAD (CEC 220-87)
7. ELEVATOR LOAD (CEC 620-14)
8. X-RAY EQUIPMENT DEMAND (CEC 517-73)

PANEL SCHEDULE LOAD CATEGORY 21 DESCRIPTIONS

PIPES, DUCTS, AND CONDUITS SHALL BE SUPPORTED AND BRACED PER OSHPD PRE-APPROVAL OF MANUFACTURER'S CERTIFICATION NO. OPM-0043-13 THE 'MASON INDUSTRIES INC. SEISMIC RESTRAINT COMPONENTS FOR SUSPENDED UTILITIES.' A COPY OF THE OSHPD PRE-APPROVED DOCUMENTS SHALL BE AT THE JOB SITE AT ALL TIMES. INSTALLATION OF THIS EQUIPMENT MUST BE DONE IN STRICT ACCORDANCE WITH THE PRE-APPROVED DOCUMENTS.

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ANCHORAGE AND SUPPORTS OF ALL EQUIPMENT TO BE INSTALLED AS A PART OF THIS PROJECT SHALL BE DETAILED ON CONSTRUCTION DOCUMENTS, EXCEPT THOSE EXEMPT BY 2013 CBC SECTION 1616A.1.18. EQUIPMENT SUPPORTS AND ANCHORAGE SHALL BE APPROVED BY THE APPROPRIATE DESIGN PROFESSIONAL OF RECORD AND OSHPD AS PART OF FIELD REVIEWS/OBSERVATIONS. THE INSPECTOR OF RECORD (IOR) SHALL ASSURE THAT THE ABOVE REQUIREMENTS ARE ENFORCED.

EXPANSION ANCHORS FOR USE IN CONCRETE IN DRY LOCATIONS SHALL BE HILTI CARBON STEEL KWIK BOLT TZ WEDGE ANCHORS. EXPANSION ANCHORS FOR USE IN CONCRETE IN DAMP AND WET LOCATIONS SHALL BE HILTI STAINLESS STEEL KWIK BOLT TZ WEDGE ANCHORS. EXPANSION ANCHORS FOR USE IN GROUT FILLED MASONRY IN DRY LOCATIONS SHALL BE SIMPSON WEDGE-ALL CARBON STEEL WEDGE ANCHORS. EXPANSION ANCHORS FOR USE IN GROUT FILLED MASONRY IN DAMP AND WET LOCATIONS SHALL BE SIMPSON WEDGE-ALL MECHANICALLY GALVANIZED CARBON STEEL WEDGE ANCHORS. PROVIDE ANCHORS OF DIAMETER AND MINIMUM EMBEDMENT INDICATED. DRY LOCATIONS ARE DEFINED AS LOCATIONS NOT NORMALLY SUBJECT TO DAMPNESS OR WETNESS. DAMP LOCATIONS ARE DEFINED AS PARTIALLY PROTECTED LOCATIONS UNDER CANOPIES, MARQUEES, ROOFED PORCHES, AND LIKE LOCATIONS AND INTERIOR LOCATIONS SUBJECT TO MODERATE DEGREES OF MOISTURE, SUCH AS SOME BASEMENTS. WET LOCATIONS ARE DEFINED AS INSTALLATIONS UNDERGROUND OR IN CONCRETE SLABS OR MASONRY IN DIRECT CONTACT WITH THE EARTH. LOCATIONS SUBJECT TO SATURATION WITH WATER OR OTHER LIQUIDS, AND LOCATIONS EXPOSED TO WEATHER AND UNPROTECTED.

PROOF LOAD TEST FOR WEDGE TYPE ANCHOR BOLTS: WHERE ANCHOR BOLTS OF THE WEDGE EXPANSION TYPE ARE LOADED IN PULLOUT OR SHEAR, 50% OF THE BOLTS (ALTERNATE BOLTS IN ANY GROUP ARRANGEMENT) SHALL BE PROOF TESTED AT LEAST 24 HOURS AFTER INSTALLATION IN THE PRESENCE OF PROJECT INSPECTOR TO THE TEST VALUES LISTED FOR THE PARTICULAR ANCHOR. IF ANY BOLTS FAIL THE PROOF LOAD TEST, TEST ALL ANCHOR BOLTS OF THE SAME TYPE, INSTALLED BY THE SAME TRADE, AND NOT PREVIOUSLY TESTED, UNTIL 20 CONSECUTIVE ANCHORS PASS, THEN RESUME INITIAL TEST FREQUENCY. ANCHORS SHALL BE TESTED WITH A CALIBRATED TORQUE WRENCH AND MUST ATTAIN SPECIFIED TORQUE VALUE WITHIN 1/2 TURN OF THE NUT.

TEST:	TORQUE			
BOLT DIAMETER (INCHES):	3/8	1/2	5/8	3/4
KB-TZ TORQUE VALUE (FT-LBS), ESR-1917:	25	40	60	110
WEDGE-ALL TORQUE VALUE (FT-LBS), ESR-1396:	30	35	55	120

WHEN INSTALLING DRILLED-IN ANCHORS IN EXISTING NON-PRESTRESSED REINFORCED CONCRETE, USE CARE AND CAUTION TO AVOID CUTTING OR DAMAGING THE EXISTING REINFORCING BARS. MAINTAIN A MINIMUM CLEARANCE OF ONE INCH BETWEEN THE REINFORCEMENT AND THE DRILLED-IN ANCHOR.

24 SEISMIC NOTES

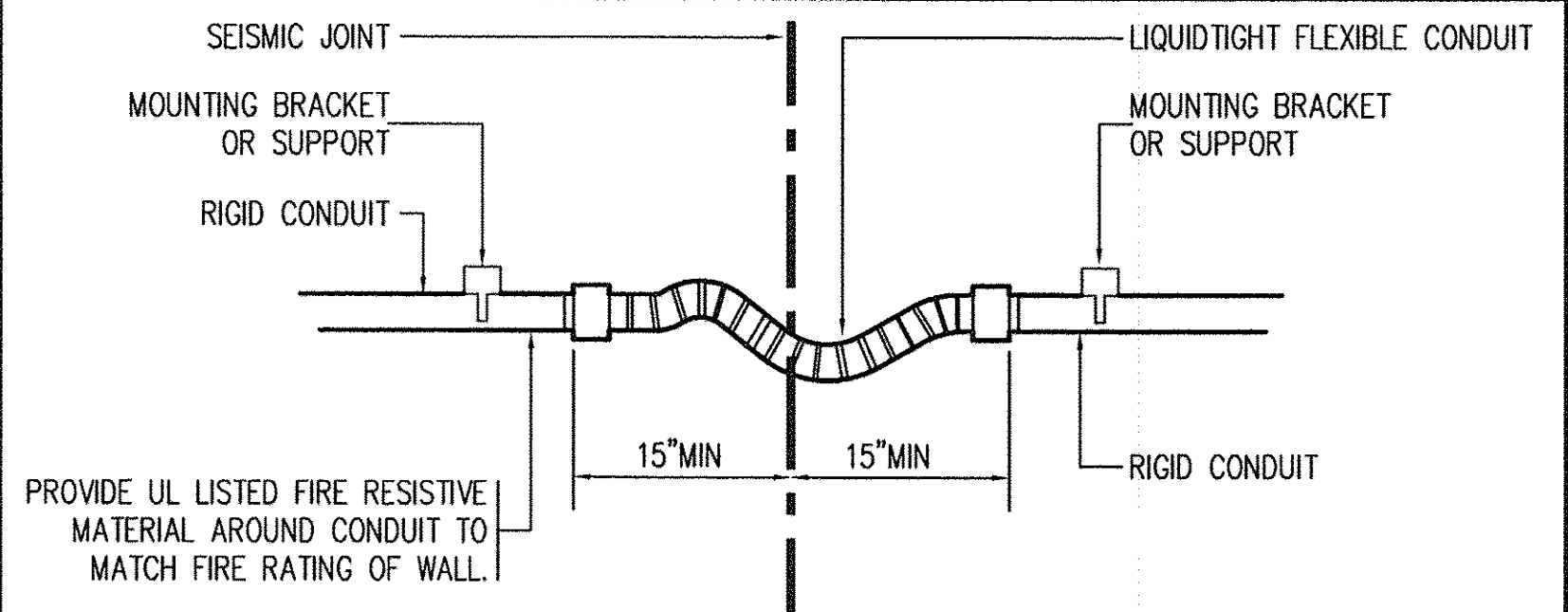
LUMINAIRE SCHEDULE

1. PRIOR TO BIDDING, CONTRACTOR SHALL DETERMINE CEILING CONSTRUCTION AND MOUNTING REQUIREMENTS FOR EACH LUMINAIRE AT EACH LOCATION, INCLUDING THOSE FIXTURES WHERE CEILING TYPE IS INDICATED.	5. ALL FLUORESCENT BALLASTS SHALL BE CERTIFIED BY THE STATE OF CALIFORNIA.
2. SEE DESCRIPTION.	6. FLUORESCENT LAMPS SHALL BE OF A TYPE AND HAVE A LAMP BASE THAT IS COMPATIBLE WITH THE LAMP SOCKET AND LUMINAIRE.
3. SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.	7. THE CATALOG NUMBERS SHOWN FOR LAMP TYPE ARE AS LISTED BY GENERAL ELECTRIC AND CAN BE CROSS REFERENCED TO CATALOG NUMBERS AS LISTED BY SYLVANIA. CROSS REFERENCED LAMPS SHALL MEET THE MINIMUM SPECIFICATION REQUIREMENTS.
4. CATALOG NUMBER AND DESCRIPTION SHALL BE VERIFIED BY CONTRACTOR PRIOR TO SUBMISSION OF SHOP DRAWINGS. ANY CONFLICTS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT.	

TYPE	MANUFACTURER	CAT NO. 1 2 3 4	DESCRIPTION 1 3 4 5 6	LAMP		INPUT WATTS (VA)	MOUNTING (WEIGHT - LBS)
				TYPE 7	QUAN/WATTS		
A	LIGHTOLIER METALUX OR EQUAL	LWBU-2-17-UNV-ELECTRONIC BALLAST BEU-217-120V-ELECTRONIC BALLAST-81	120 VOLT, 2-LAMP FLUORESCENT WALL BRACKET WITH UP AND DOWN LIGHT, STEEL HOUSING, BAKED WHITE ENAMEL FINISH, ONE PIECE PRISMATIC ACRYLIC LENSES FOR BOTH UP AND DOWN LIGHT, AND ELECTRONIC BALLAST. ELECTRONIC BALLAST SHALL BE ADVANCE IOP-2P32-SC, UNIVERSAL B232IUNVHP-B, OR EQUAL.	F17T8/ SPX35/ ECO	2/17	32 (32)	SURFACE WALL MOUNTED 6" ABOVE MIRROR (<20LBS.)
B	WILLIAMS LIGHTOLIER OR EQUAL	17-2-217-A-ELECTRONIC BALLAST-120 JS-2-A-2-17-UNV-ELECTRONIC BALLAST	120 VOLT, NOMINAL 1'X2' WRAPAROUND FLUORESCENT LUMINAIRE WITH STEEL HOUSING, ONE-PIECE ACRYLIC LINEAR REFRACTOR, WHITE FINISH, AND ELECTRONIC BALLAST. ELECTRONIC BALLAST SHALL BE ADVANCE IOP-2P32-SC, UNIVERSAL B232IUNVHP-B, OR EQUAL.	F17T8/ SPX35/ ECO	2/17	32 (32)	SURFACE CEILING (<20LBS.)

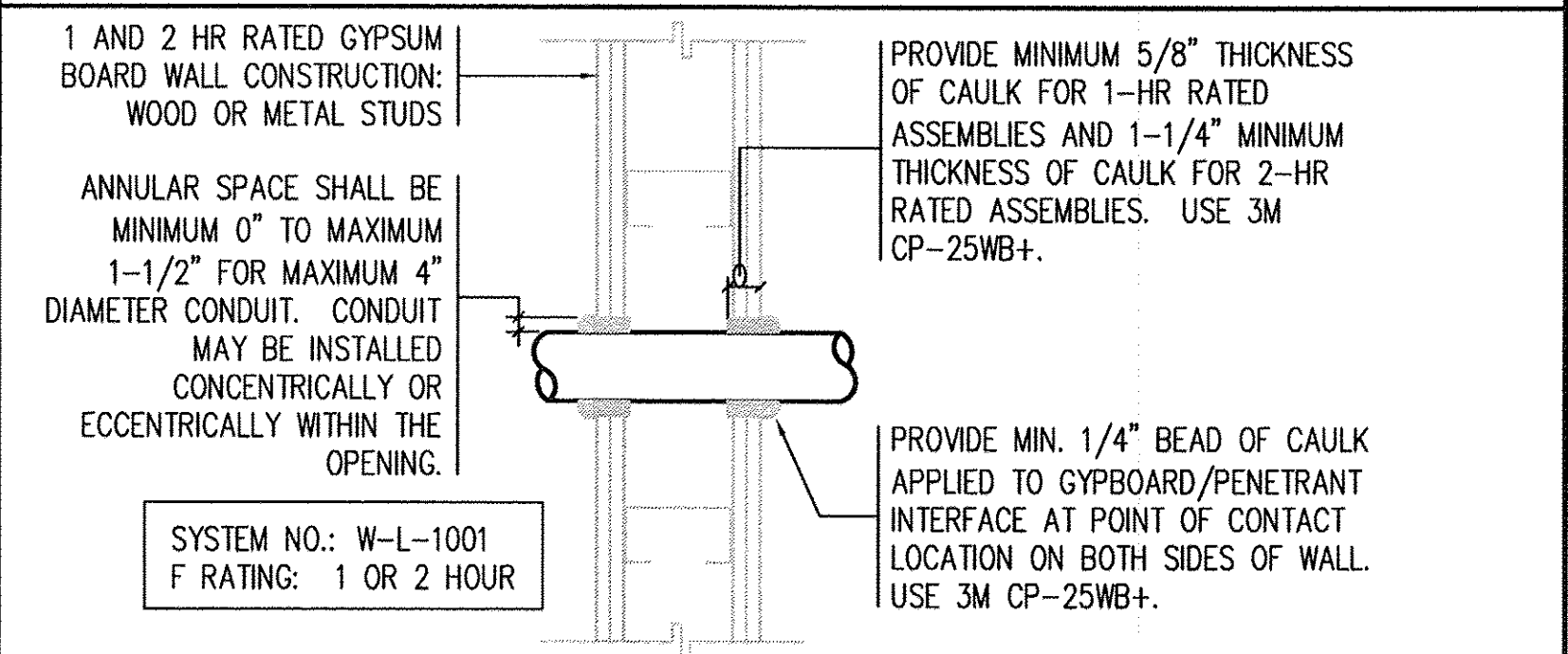
- (X) DESIGNATION FOR OCPD OR DISCONNECTION EQUIPMENT BY CIRCUIT NUMBER OR LETTER. M=MAIN, B=BRANCH CIRCUIT DEVICE, F=FEEDER.
- (B) MOLDED CASE CIRCUIT BREAKER. AF=FRAME SIZE, AT=TRIP RATING, P=NUMBER OF POLES, A=AMPERE RATING.
- (B) FUSED SWITCH AS=AMPERE RATING, P=NUMBER OF POLES, AS=FUSE RATING
- (B) SAFETY SWITCH/DISCONNECT SWITCH A=AMPERE RATING, P=NUMBER OF POLES
- (T) TRANSFORMER WITH PRIMARY AND SECONDARY VOLTAGES, PHASES, AND KVA RATING AS INDICATED.
- (RM) REVENUE METER.
- (G) GENERATOR WITH RATINGS AS INDICATED.
- (U) UTILITY SERVICE

18 ONE LINE DIAGRAM SYMBOL LIST



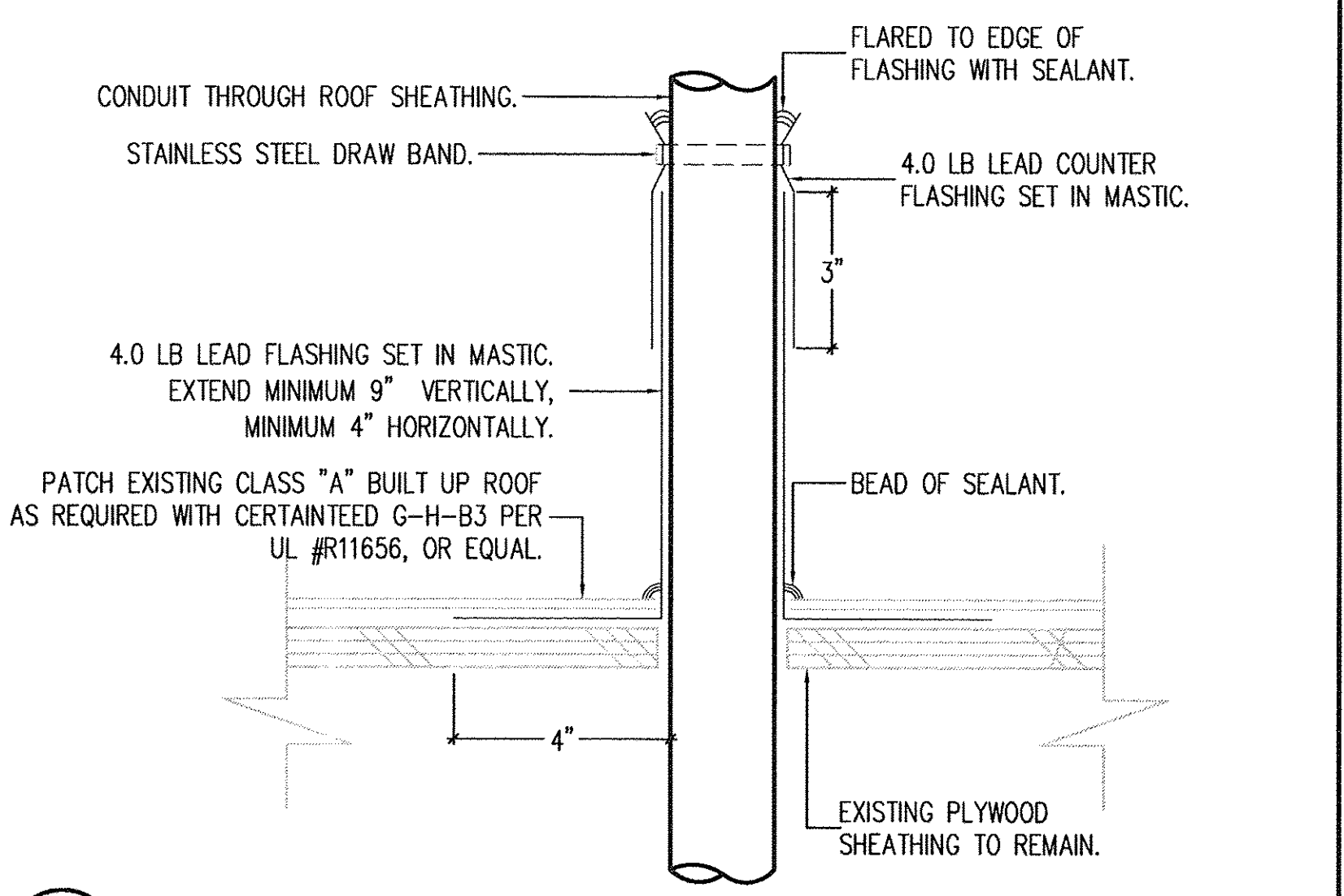
19 CONDUIT AT SEISMIC JOINT

NTS



20 GYPBOARD WALL PENETRATION FIRESTOP

NTS



15 CONDUIT AT ROOF PENETRATION

- (10/E7) FIRE ALARM SYSTEM COMBINATION CHIME/STROBE ON FLUSH OUTLET BOX AT +86" UON.
- (10/E7) FIRE ALARM SYSTEM STROBE ON FLUSH WALL OUTLET BOX AT +86" UON.
- (10/E7) FIRE ALARM SYSTEM STROBE ON FLUSH CEILING OUTLET BOX UON.
- (10/E7) THE TOP NUMBER INDICATES THE DETAIL REFERENCED AND THE BOTTOM NUMBER INDICATES THE SHEET NUMBER.

Electrical Abbreviations

ATS/IBP	AUTOMATIC TRANSFER SWITCH/ ISOLATION BYPASS
AWGG	AMERICAN WIRE GAGE EQUIPMENT GROUNDING CONDUCTOR, SIZE AS INDICATED.
AF	ABOVE FINISHED FLOOR
CO	CONDUIT ONLY WITH NYLON PULLROPE
EX	EXISTING
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
MCS	MOTOR CONTROL SWITCHBOARD
MH=90"	INDICATES HEIGHT TO BOTTOM OF LUMINAIRE
(N)	NEW
NTS	NOT TO SCALE
UON	UNLESS OTHERWISE NOTED
+XX"	INDICATES HEIGHT TO CENTER OF OUTLET BOX

PLAN SYMBOL LIST

- 1/2"C. 2-12AWG & 1-12AWGG 3/4"C. 6-12AWG & 1-12AWGG
- 1/2"C. 3-12AWG & 1-12AWGG 3/4"C. 7-12AWG & 1-12AWGG
- 3/4"C. 4-12AWG & 1-12AWGG 1"C. 8-12AWG & 1-12AWGG
- 3/4"C. 5-12AWG & 1-12AWGG 1"C. 9-12AWG & 1-12AWGG
- A-1,3
- CONDUIT HOME RUN WITH 4-12AWG & 1-12AWGG TO PANEL "A", CIRCUITS 1 AND 3.
- CONDUIT RUN CONCEALED IN OR ABOVE CEILING, OR IN WALLS.
- CONDUIT RUN IN OR BELOW FLOOR, OR BELOW GRADE.
- CONDUIT RUN EXPOSED.
- CONDUIT RISER DOWN.
- CONDUIT RISER UP.
- CONDUIT RUN STUBBED OUT, MARKED AND CAPPED.
- F FIRE ALARM SYSTEM CONDUIT RUN. 1/2"C. 4-12AWG UON.
- N NURSE CALL SYSTEM WIRING RUN. 1-4/C 22AWG, BELDEN 88444 OR EQUAL.
- FLEXIBLE CONDUIT.
- DOTTED LINE INDICATES EQUIPMENT TO BE REMOVED UON.
- EX EXISTING SYSTEM CONDUIT RUN UON.
- JUNCTION BOX WITH BLANK FACEPLATE. JUNCTION BOX SHALL BE CONCEALED UON.
- JUNCTION BOX WITH BLANK FACEPLATE FLUSH WALL MOUNTED AT +18" UON.
- S_{ab} SINGLE POLE TOGGLE SWITCH IN FLUSH WALL OUTLET BOX UON. SUBSCRIPTS INDICATE OUTLETS CONTROLLED AND A GANGED ASSEMBLY WITH A SWITCH OF THE TYPE INDICATED FOR EACH SUBSCRIPT. +42" UON.
- S₃ THREE-WAY TOGGLE SWITCH IN A FLUSH WALL OUTLET BOX AT +42" UON.
- S_a OCCUPANCY SENSOR IN FLUSH WALL OUTLET BOX AT +42" UON. SUBSCRIPTS INDICATE OUTLETS CONTROLLED AND A GANGED ASSEMBLY WITH A SENSOR FOR EACH SUBSCRIPT.
- DUPLX RECEPTACLE CONNECTED TO A NORMAL SYSTEM CIRCUIT IN A FLUSH WALL OUTLET BOX AT +18" UON.
- DUPLX RECEPTACLE CONNECTED TO AN EMERGENCY SYSTEM CIRCUIT IN A FLUSH WALL OUTLET BOX AT +18" UON.
- GFCI DUPLX RECEPTACLE CONNECTED TO A NORMAL SYSTEM CIRCUIT IN A FLUSH WALL OUTLET BOX AT +18" UON.
- QUAD RECEPTACLE TO BE DEMOLISHED
- ELECTRICAL BRANCH CIRCUIT PANELBOARD, FLUSH MOUNTED. BAR DENOTES DOOR SIDE OF FLUSH MOUNTED PANEL.
- FLUORESCENT LUMINAIRE FLUSH, SURFACE, OR PENDANT MOUNTED AS INDICATED WITH OUTLET BOX MOUNTED ADJACENT TO LUMINAIRE.
- FLUORESCENT LUMINAIRE SURFACE WALL MOUNTED ON A FLUSH OUTLET BOX.
- INDICATES LUMINAIRE CONNECTED TO EMERGENCY CIRCUIT.
- LUMINAIRE DESIGNATION. LETTER INDICATES LUMINAIRE TYPE.
- NURSE CALL SYSTEM TOILET STATION IN FLUSH WALL OUTLET BOX AT +42" UON.
- NURSE CALL SYSTEM DOME LIGHT/BUZZER ON FLUSH WALL OUTLET BOX AT +90" UON.

O.S.H.P.D. PROJECT # S141690-56

* REVIEWED *

8/18/14

COUNTY OF VENTURA
PUBLIC WORKS AGENCY
ENGINEERING SERVICES DEPARTMENT

PROJECT MANAGER

SPEC. NUMBER	SHEET 9 OF 13
PROJECT NUMBER	DRAWING NUMBER

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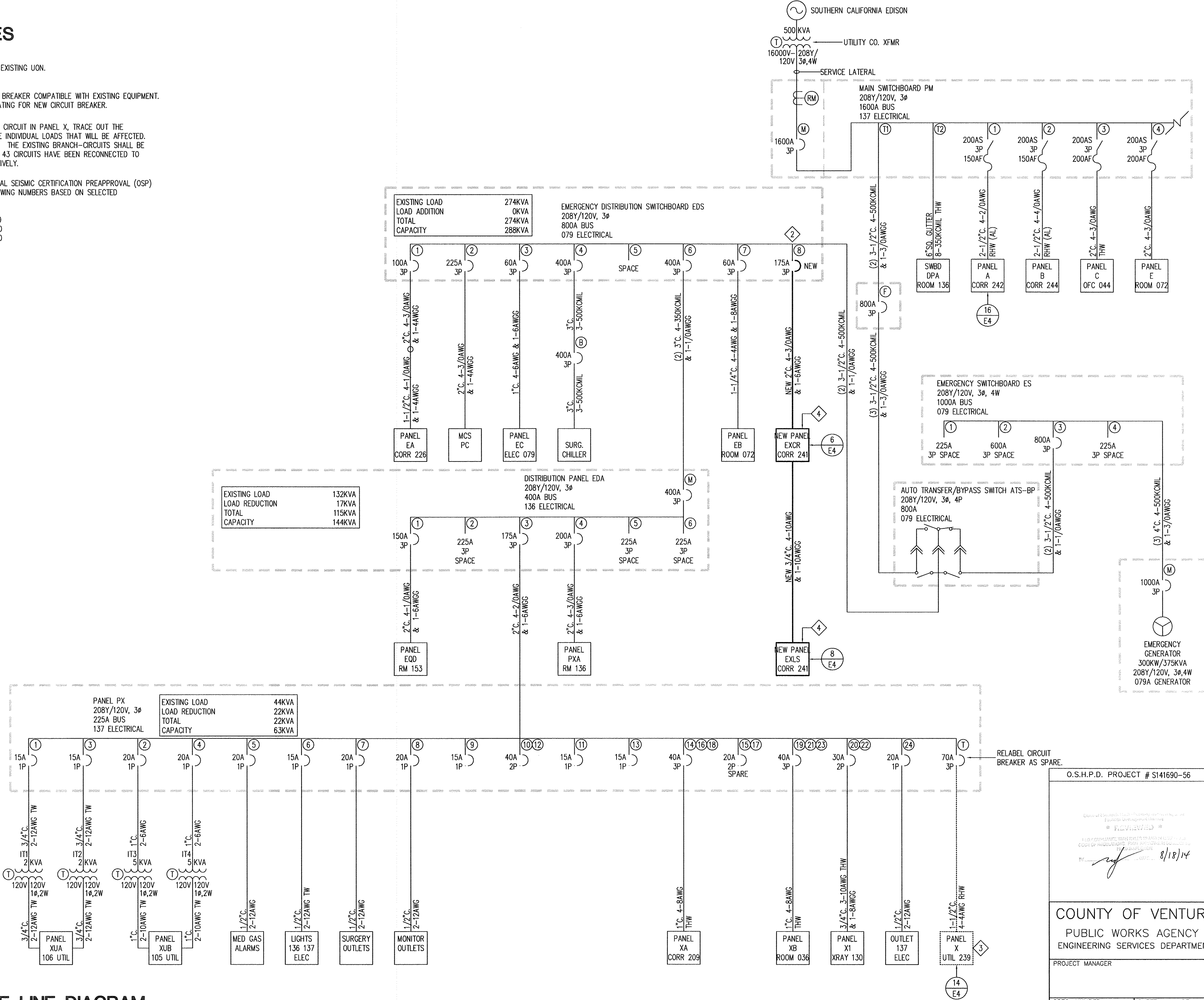
Sheet No. **E1**

Rasmussen & Associates Inc. 2014/01/21 4:53 PM C:\DWG\2014\01\21\24.PLT
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DRAWING NOTES

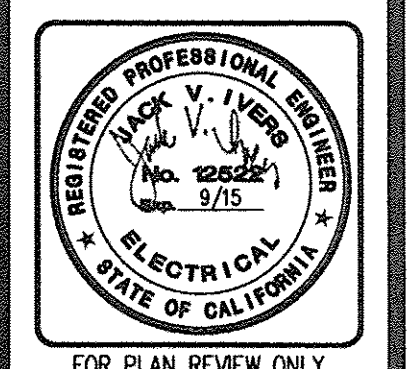
- 1 ALL ELECTRICAL WORK SHOWN IS EXISTING UNO.
- 2 PROVIDE SQUARE D I LINE CIRCUIT BREAKER COMPATIBLE WITH EXISTING EQUIPMENT. PROVIDE 22,000 INTERRUPTING RATING FOR NEW CIRCUIT BREAKER.
- 3 PRIOR TO THE CUTOVER OF EACH CIRCUIT IN PANEL X, TRACE OUT THE BRANCH-CIRCUIT TO CONFIRM THE INDIVIDUAL LOADS THAT WILL BE AFFECTED. COORDINATE WITH AGENCY STAFF. THE EXISTING BRANCH-CIRCUITS SHALL BE CUTOVER ONE BY ONE UNTIL ALL 43 CIRCUITS HAVE BEEN RECONNECTED TO PANELS EXCR AND EXLS RESPECTIVELY.
- 4 PANELBOARDS SHALL HAVE SPECIAL SEISMIC CERTIFICATION PREAPPROVAL (OSP) THROUGH OSHPD WITH THE FOLLOWING NUMBERS BASED ON SELECTED MANUFACTURER.

SQUARE D: OSP-0016-10
 GENERAL ELECTRIC: OSP-0040-10
 EATON: OSP-0009-10

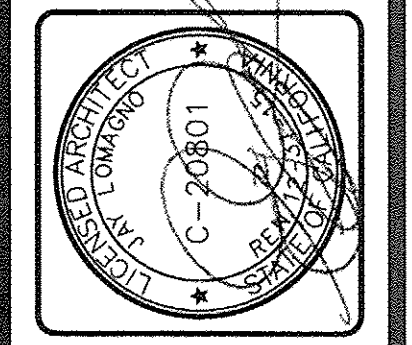


24 PARTIAL ONE LINE DIAGRAM

IRJ ENGINEERS, INC.
 MECHANICAL & ELECTRICAL ENGINEERS
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Sheet PARTIAL ONE LINE DIAGRAM

Revisions	REA No.	Date	Drawn	Checked	Consult. No.
	808/25	09/09/14			

O.S.H.P.D. PROJECT # S141690-56

APPROVED

8/18/14

COUNTY OF VENTURA
PUBLIC WORKS AGENCY
ENGINEERING SERVICES DEPARTMENT

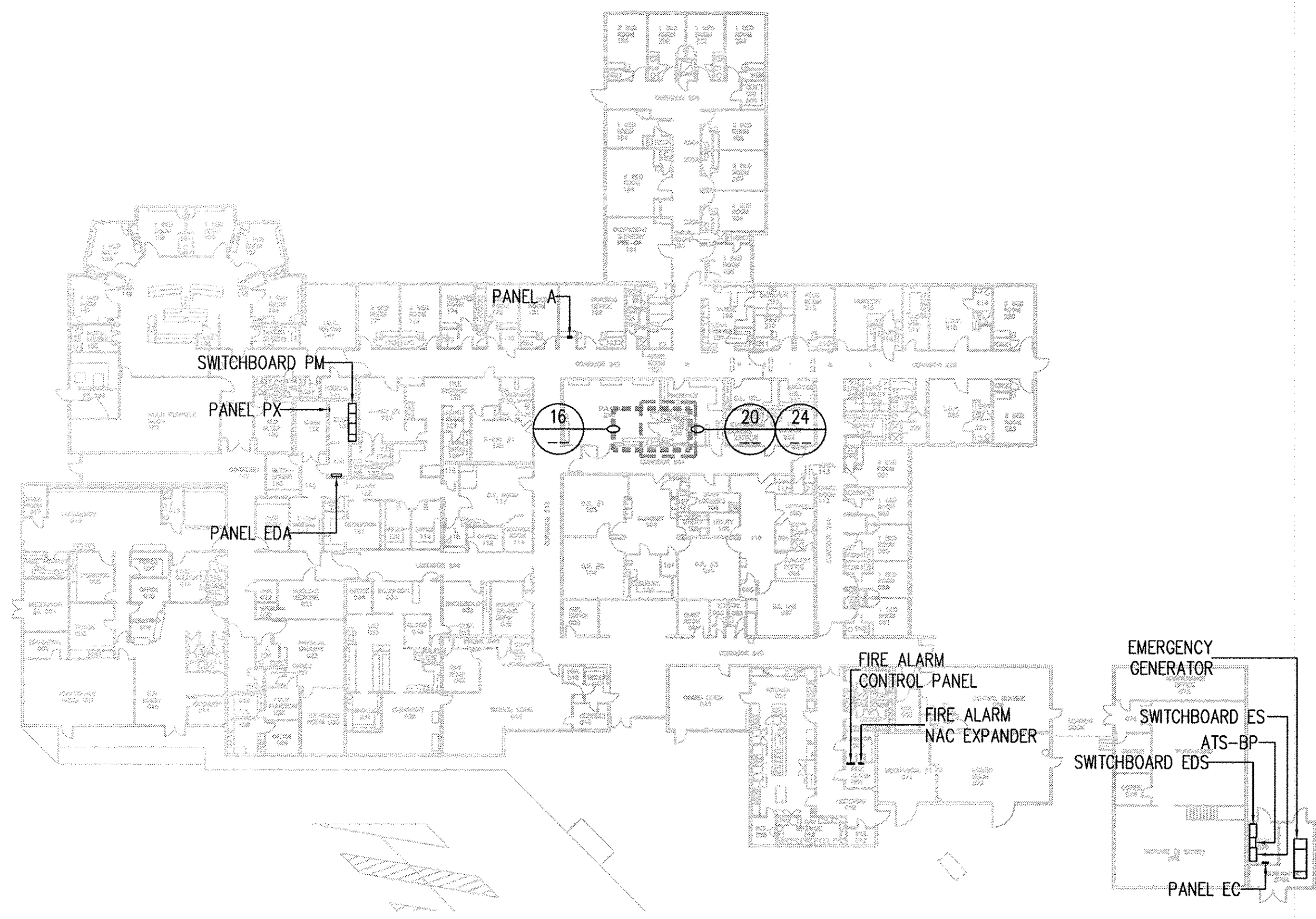
PROJECT MANAGER

SPEC. NUMBER SHEET OF
PROJECT NUMBER DRAWING NUMBER

P.A.C.U. TOILET
SANTA PAULA HOSPITAL
 825 NORTH 10TH STREET
 SANTA PAULA, CA

Sheet No.
E2

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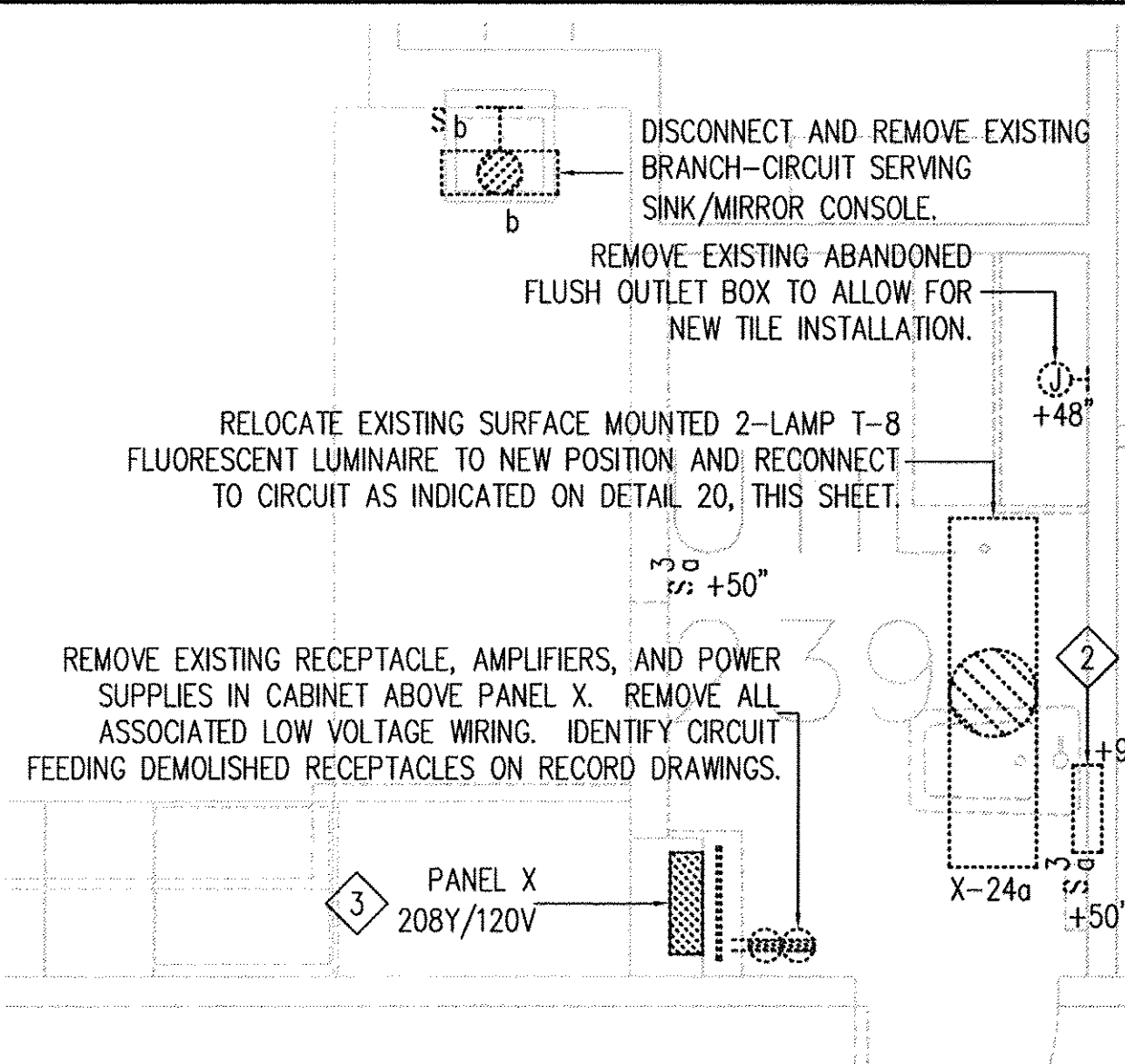


DETAIL NOTES

- 1 ALL ELECTRICAL WORK SHOWN IS EXISTING UON.

23 ELECTRICAL FLOOR PLAN

SCALE 1" = 30' - 0"

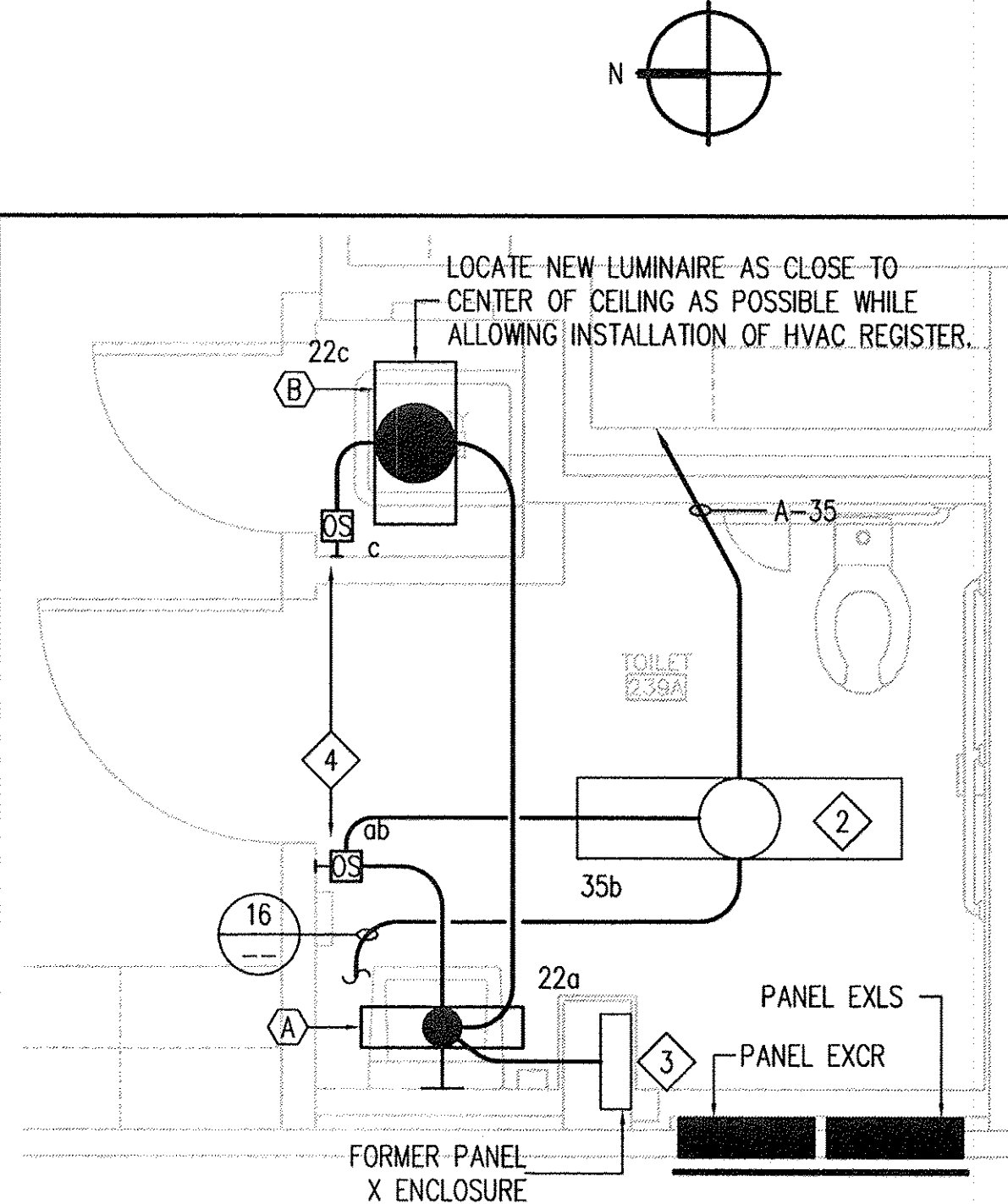


DETAIL NOTES

- 1 ALL ELECTRICAL WORK SHOWN IS NEW UON.
- 2 INTERCEPT THE EXISTING 120 VOLT CIRCUIT CONDUCTORS BY REPLACING THE EXISTING LOW VOLTAGE TRANSFORMERS AND ENCLOSURE WITH A NEW FLUSH MOUNTED JUNCTION BOX WITH BLANK COVER. NOTE EXISTING CIRCUIT ON RECORD DRAWINGS.
- 3 REMOVE PANEL X INTERIOR AFTER ROUTING NEW BRANCH-CIRCUITS FROM PANELS EXCR AND EXLS. INSTALL OUTLET BOXES AND CONDUITS WITHIN PANEL X ENCLOSURE TO ISOLATE THE BRANCH-CIRCUITS SERVED BY PANEL EXLS. REFER TO ARCHITECTURAL SHEETS FOR REPLACEMENT OF PANEL COVER.

PARTIAL DEMOLITION FLOOR PLAN

SCALE 1/2" = 1' - 0"

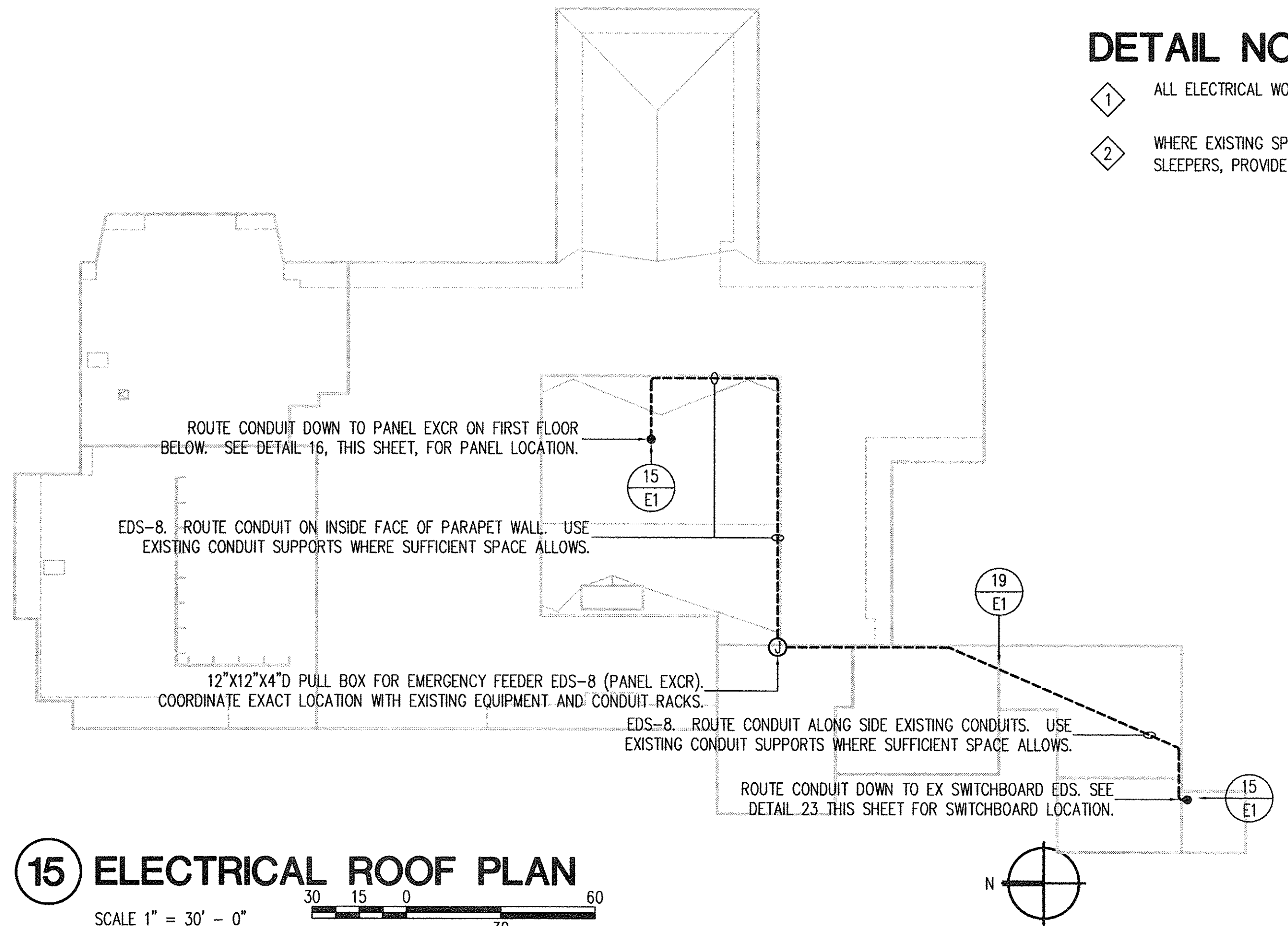


DETAIL NOTES

- 1 ALL ELECTRICAL WORK SHOWN IS NEW UON.
- 2 RELOCATED LUMINAIRE. MAINTAIN MINIMUM SEPARATION OF 18" FROM EXISTING FIRE SPRINKLER.
- 3 CONNECT EXCR-22 TO THE SAME CIRCUIT CONDUCTORS WITHIN FORMER PANEL X ENCLOSURE THAT SERVE THE PACU LIGHTING.
- 4 PROVIDE ENGRAVED STAINLESS STEEL NAMEPLATE WITH RED LETTERING. ENGRAVE THE WORD 'PANEL' ABOVE EACH SENSOR. ENGRAVE THE PANEL DESIGNATION AND CIRCUIT NUMBER BENEATH EACH SENSOR.

PARTIAL LIGHTING FLOOR PLAN

SCALE 1/2" = 1' - 0"



15 ELECTRICAL ROOF PLAN

SCALE 1" = 30' - 0"

DETAIL NOTES

- 1 ALL ELECTRICAL WORK SHOWN IS NEW UON.
- 2 1" C. 24-12AWG & 1-12AWG. CONNECT NEW PANEL EXCR CIRCUITS 7,9,8,10,11,13,15,17,12,14,16,&18 TO EXISTING PANEL X BRANCH-CIRCUITS WITHIN FORMER PANEL X ENCLOSURE. CIRCUITS FROM PANEL EXCR SHALL BE CONNECTED TO THE CORRESPONDING CIRCUIT IN FORMER PANEL X, UON. EACH PHASE CONDUCTOR SHALL BE ROUTED WITH A DISCRETE NEUTRAL CONDUCTOR BETWEEN THE TWO ENCLOSURES.
- 3 1" C. 14-10AWG & 1-10AWG. CONNECT NEW PANEL EXCR CIRCUITS 19,21,30,37A,39,41,37B TO EXISTING PANEL X BRANCH-CIRCUITS WITHIN FORMER PANEL X ENCLOSURE. CIRCUITS FROM PANEL EXCR SHALL BE CONNECTED TO THE CORRESPONDING CIRCUIT IN FORMER PANEL X, UON. RECONNECT EXISTING TANDEM CIRCUIT BREAKER 37A TO EXCR-37. RECONNECT EXISTING TANDEM CIRCUIT BREAKER 37B TO PANEL EXCR-24. EACH PHASE CONDUCTOR SHALL BE ROUTED WITH A DISCRETE NEUTRAL CONDUCTOR BETWEEN THE TWO ENCLOSURES.
- 4 1" C. 10-12AWG, 2-8AWG, & 1-8AWG. CONNECT NEW PANEL EXCR CIRCUITS 26,28,31,33,35,38,40 TO EXISTING PANEL X BRANCH-CIRCUITS WITHIN FORMER PANEL X ENCLOSURE. CIRCUITS FROM PANEL EXCR SHALL BE CONNECTED TO THE CORRESPONDING CIRCUIT IN FORMER PANEL X, UON. CONNECT THE 8AWG CIRCUIT CONDUCTORS TO EXCR-38,40. EACH 120 VOLT SINGLE PHASE CONDUCTOR SHALL BE ROUTED WITH A DISCRETE NEUTRAL CONDUCTOR BETWEEN THE TWO ENCLOSURES.
- 5 1" C. 14-12AWG, 2-10AWG & 1-10AWG. CONNECT NEW PANEL EXCR CIRCUITS 20,22,24,23,32,34,36,42 TO EXISTING PANEL X BRANCH-CIRCUITS WITHIN FORMER PANEL X ENCLOSURE. CIRCUITS FROM PANEL EXCR SHALL BE CONNECTED TO THE CORRESPONDING CIRCUIT IN FORMER PANEL X, UON. EACH PHASE CONDUCTOR SHALL BE ROUTED WITH A DISCRETE NEUTRAL CONDUCTOR BETWEEN THE TWO ENCLOSURES. CONNECT THE 10AWG CONDUCTORS TO CIRCUIT 42.
- 6 1" C. 18-12AWG & 1-12AWG. CONNECT NEW PANEL EXLS CIRCUITS 1,2,3,4,5,6,8,9,11 TO EXISTING PANEL X BRANCH-CIRCUITS WITHIN FORMER PANEL X ENCLOSURE. CIRCUITS FROM PANEL EXLS SHALL BE CONNECTED TO THE CORRESPONDING CIRCUIT IN FORMER PANEL X, UON. RECONNECT FORMER CIRCUIT X-25 TO CIRCUIT EXLS-8. RECONNECT FORMER CIRCUIT X-27 TO CIRCUIT EXLS-7. RECONNECT FORMER CIRCUIT X-29 TO CIRCUIT EXLS-9. EACH PHASE CONDUCTOR SHALL BE ROUTED WITH A DISCRETE NEUTRAL CONDUCTOR BETWEEN THE TWO ENCLOSURES.
- 7 STUB TWO 3/4" CO FROM PANEL EXLS INTO ACCESSIBLE CEILING SPACE. ONE CONDUIT SHALL BE FOR FUTURE LIFE SAFETY BRANCH FEEDER TO PANEL EXLS. THE OTHER CONDUIT SHALL BE FOR FUTURE BRANCH-CIRCUITS FROM PANEL EXLS.
- 8 STUB ONE 1-1/2" CO FROM PANEL EXCR INTO ACCESSIBLE CEILING SPACE WEST OF PANEL EXCR FOR FUTURE OPERATING ROOM POWER. STUB TWO 3/4" CO FROM PANEL EXCR INTO ACCESSIBLE CEILING SPACE FOR FUTURE BRANCH-CIRCUITS FROM PANEL EXCR.

16 PARTIAL POWER & SIGNAL FLOOR PLAN

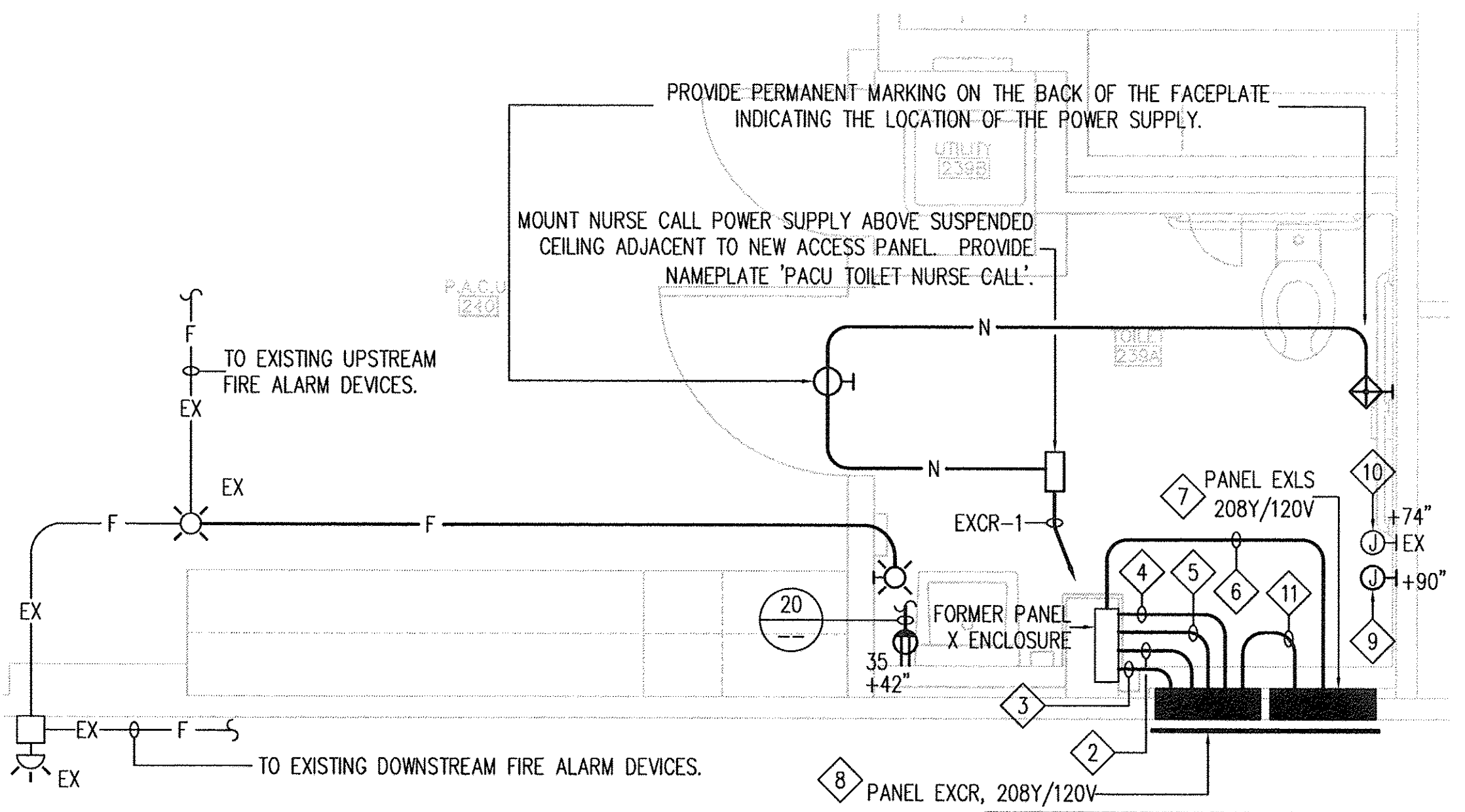
SCALE 1/2" = 1' - 0"

DETAIL NOTES

- 1 ALL ELECTRICAL WORK SHOWN IS NEW UON.
- 2 WHERE EXISTING SPACE IS NOT AVAILABLE ON THE EXISTING ROOF MOUNTED SLEEPERS, PROVIDE NEW 4"SQ. X 12" REDWOOD SLEEPERS SET IN MASTIC.

DETAIL NOTES

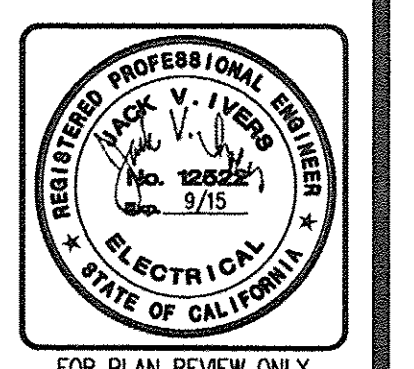
- 1 ALL ELECTRICAL WORK SHOWN IS NEW UON.
- 2 1" C. 24-12AWG & 1-12AWG. CONNECT NEW PANEL EXCR CIRCUITS 7,9,8,10,11,13,15,17,12,14,16,&18 TO EXISTING PANEL X BRANCH-CIRCUITS WITHIN FORMER PANEL X ENCLOSURE. CIRCUITS FROM PANEL EXCR SHALL BE CONNECTED TO THE CORRESPONDING CIRCUIT IN FORMER PANEL X, UON. EACH PHASE CONDUCTOR SHALL BE ROUTED WITH A DISCRETE NEUTRAL CONDUCTOR BETWEEN THE TWO ENCLOSURES.
- 3 1" C. 14-10AWG & 1-10AWG. CONNECT NEW PANEL EXCR CIRCUITS 19,21,30,37A,39,41,37B TO EXISTING PANEL X BRANCH-CIRCUITS WITHIN FORMER PANEL X ENCLOSURE. CIRCUITS FROM PANEL EXCR SHALL BE CONNECTED TO THE CORRESPONDING CIRCUIT IN FORMER PANEL X, UON. RECONNECT EXISTING TANDEM CIRCUIT BREAKER 37A TO EXCR-37. RECONNECT EXISTING TANDEM CIRCUIT BREAKER 37B TO PANEL EXCR-24. EACH PHASE CONDUCTOR SHALL BE ROUTED WITH A DISCRETE NEUTRAL CONDUCTOR BETWEEN THE TWO ENCLOSURES.
- 4 1" C. 10-12AWG, 2-8AWG, & 1-8AWG. CONNECT NEW PANEL EXCR CIRCUITS 26,28,31,33,35,38,40 TO EXISTING PANEL X BRANCH-CIRCUITS WITHIN FORMER PANEL X ENCLOSURE. CIRCUITS FROM PANEL EXCR SHALL BE CONNECTED TO THE CORRESPONDING CIRCUIT IN FORMER PANEL X, UON. CONNECT THE 8AWG CIRCUIT CONDUCTORS TO EXCR-38,40. EACH 120 VOLT SINGLE PHASE CONDUCTOR SHALL BE ROUTED WITH A DISCRETE NEUTRAL CONDUCTOR BETWEEN THE TWO ENCLOSURES.
- 5 1" C. 14-12AWG, 2-10AWG & 1-10AWG. CONNECT NEW PANEL EXCR CIRCUITS 20,22,24,23,32,34,36,42 TO EXISTING PANEL X BRANCH-CIRCUITS WITHIN FORMER PANEL X ENCLOSURE. CIRCUITS FROM PANEL EXCR SHALL BE CONNECTED TO THE CORRESPONDING CIRCUIT IN FORMER PANEL X, UON. EACH PHASE CONDUCTOR SHALL BE ROUTED WITH A DISCRETE NEUTRAL CONDUCTOR BETWEEN THE TWO ENCLOSURES. CONNECT THE 10AWG CONDUCTORS TO CIRCUIT 42.
- 6 1" C. 18-12AWG & 1-12AWG. CONNECT NEW PANEL EXLS CIRCUITS 1,2,3,4,5,6,8,9,11 TO EXISTING PANEL X BRANCH-CIRCUITS WITHIN FORMER PANEL X ENCLOSURE. CIRCUITS FROM PANEL EXLS SHALL BE CONNECTED TO THE CORRESPONDING CIRCUIT IN FORMER PANEL X, UON. RECONNECT FORMER CIRCUIT X-25 TO CIRCUIT EXLS-8. RECONNECT FORMER CIRCUIT X-27 TO CIRCUIT EXLS-7. RECONNECT FORMER CIRCUIT X-29 TO CIRCUIT EXLS-9. EACH PHASE CONDUCTOR SHALL BE ROUTED WITH A DISCRETE NEUTRAL CONDUCTOR BETWEEN THE TWO ENCLOSURES.
- 7 STUB TWO 3/4" CO FROM PANEL EXLS INTO ACCESSIBLE CEILING SPACE. ONE CONDUIT SHALL BE FOR FUTURE LIFE SAFETY BRANCH FEEDER TO PANEL EXLS. THE OTHER CONDUIT SHALL BE FOR FUTURE BRANCH-CIRCUITS FROM PANEL EXLS.
- 8 STUB ONE 1-1/2" CO FROM PANEL EXCR INTO ACCESSIBLE CEILING SPACE WEST OF PANEL EXCR FOR FUTURE OPERATING ROOM POWER. STUB TWO 3/4" CO FROM PANEL EXCR INTO ACCESSIBLE CEILING SPACE FOR FUTURE BRANCH-CIRCUITS FROM PANEL EXCR.
- 9 NEW FLUSH MOUNTED JUNCTION BOX WITH FLUSH COVER AT FORMER LOCATION OF LOW VOLTAGE TRANSFORMERS. SEE DETAIL 24, THIS SHEET.
- 10 EXISTING FLUSH MOUNTED JUNCTION BOX TO REMAIN. TRACE EXISTING CIRCUIT CONDUCTORS AND IDENTIFY PANEL OF ORIGIN AND CIRCUIT NUMBER ON RECORD DRAWINGS.
- 11 REFER TO PARTIAL ONE LINE DIAGRAM, SHEET E2, FOR FEEDER CONDUIT AND CONDUCTORS FROM PANEL EXCR TO EXLS.



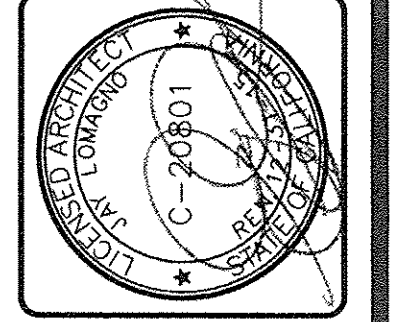
O.S.H.P.D. PROJECT # S141690-56

COUNTY OF VENTURA
 PUBLIC WORKS AGENCY
 ENGINEERING SERVICES DEPARTMENT
 PROJECT MANAGER
 SHEET 11 OF 13
 DRAWING NUMBER

RASMUSSEN & ASSOCIATES
 ARCHITECTURE
 PLANNING
 INTERIORS
 21 & California Street
 Fourth Floor
 Ventura, California 93001
 (805) 648-1234



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ELECTRICAL FLOOR AND ROOF PLANS, PARTIAL DEMOLITION, LIGHTING, & SIGNAL FLOOR PLANS	R&A No: 908925 Date: 08/08/14 Drawn: Checked: Consult: No.
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P.A.C.U. TOILET
 SANTA PAULA HOSPITAL
 825 NORTH 10TH STREET
 SANTA PAULA, CA

Sheet No.
E3

Rasmussen & Associates, Inc. 10000 Wilshire Blvd., Suite 1000, Beverly Hills, CA 90210
 (818) 203-0800 FAX (818) 203-0801
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NAC EXTENDER PANEL VISIBLE CIRCUIT - S6

DEVICE	MODEL NO.	QUAN.	AMPS	TOTAL AMPS	CIRC. LENGTH	TOTAL VOLT DROP	% VOLTS
30CD STROBE	4904-9135	11	0.100	1.100			
15CD STROBE	4904-9176	1	0.090	0.090			
				1.190	520	2.4504	10.21

VOLTAGE DROP FORMULA
 $\%VD = 2R \cdot I \cdot L \cdot 100\%$
 $1000 \cdot 24$

WHERE R=2.68 FOR NO. 14 COPPER AND R=1.65 FOR NO. 12 COPPER CONDUCTORS

21 VOLTAGE DROP CALCULATIONS

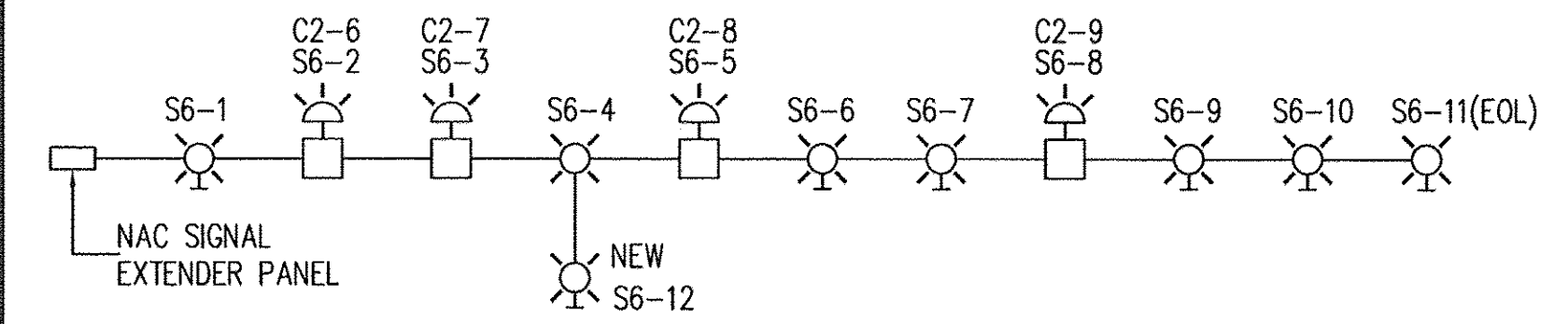
NAC SIGNAL EXTENDER PANEL

DEVICE	MODEL NO./CSFM LISTING NO.	QUANTITY	DEVICE STANDBY CURRENT	DEVICE ALARM CURRENT	TOTAL STANDBY CURRENT	TOTAL ALARM CURRENT
15CD STROBE	4904-9176/7125-0026:248	1	0.0000	0.0900	0.0000	0.0900

THE DEVICES IDENTIFIED ABOVE ARE NEW.

ADDED STANDBY BATTERY LOAD 0.0000
 ADDED ALARM BATTERY LOAD 0.0075
 PROJECT BATTERY LOAD 0.0075
 EXISTING BATTERY LOAD 1.1340
 NEW BATTERY LOAD 1.1415
 BATTERY CAPACITY 10.0000

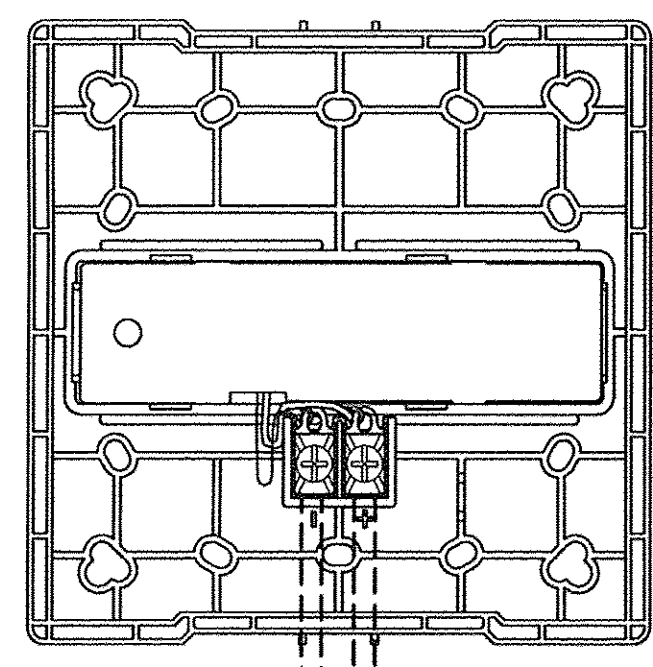
22 BATTERY CALCULATIONS



DEVICE DESIGNATION KEY
 XX-XXX
 SEQUENTIAL NUMBER ASSIGNED TO INDIVIDUAL DEVICE.
 CIRCUIT IDENTIFIER.
 TYPE OF CIRCUIT IDENTIFIER M=SLC, C=AUDIBLE NAC, S=VISIBLE NAC.

NAC: CLASS B/ STYLE Y

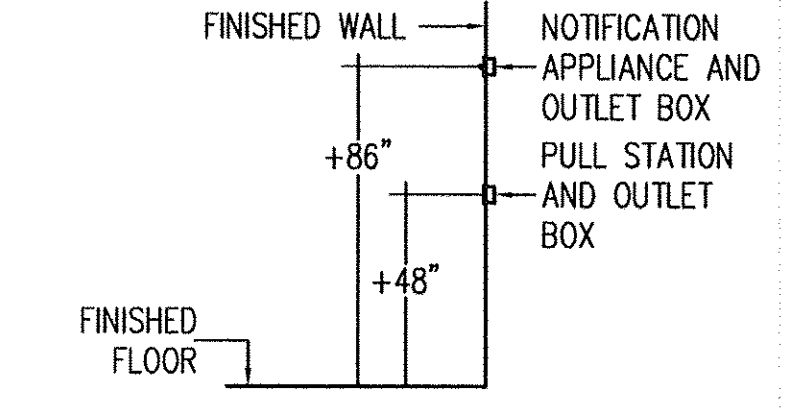
23 RISER DIAGRAM



24 STROBE WIRING

TO ADDITIONAL NAC DEVICES OR RETURN TO FIRE ALARM CONTROL PANEL FOR STYLE Z APPLICATION.
 IF LAST DEVICE ON CIRCUIT IN A STYLE Y APPLICATION PLACE AN END-OF-LINE RESISTOR.

20 NOTIFICATION APPLIANCE AND PULL STATION ELEVATION



ESSENTIAL BRANCH-CIRCUIT PANELBOARD
 X ①

SERVICE: 208Y/120V S/N 3P 4W BUS: 219A LOCATION: 239 UTILITY ROOM
 MAIN BREAKER: LUGS ONLY FEEDER: SEE ONE LINE DIAGRAM VER: A3
 ENTER CABT AT: MOUNTING: FLUSH MINIMUM AIC RATING: 10,000

CIRCUIT	TYPE	RELAY	TRIP	LOAD	VOLT AMPS A	VOLT AMPS B	VOLT AMPS C	DESCRIPTION	
1	15	1	7	1	175			226,241,242 EXIT LIGHTS	
2	15	1	3	1	75			244,245 EXIT LIGHTS	
3	15	1	3	1		186		242 CORRIDOR LIGHTING	
4	15	1	2	1		124		241 CORRIDOR LIGHTING	
5	15	1	3	1		195		040, 045 LIGHTING	
6	15	1	11	1		650		054,066,243,245 LIGHTING	
7	15	1	4	1	248			215 LIGHTING	
8	15	1	5	1	125			171,172,174,179,181 NIGHT LIGHTING	
9	15	1	13	1	1097			215,216,217,227,230,231 LIGHTING	
10	15	1	7	1	200			081,084,085,089,091,220,223 NIGHT LIGHTING	
11	15	1	13	1		784		102,103,128 LIGHTING	
12	15	1	1	4		320		232 RECEPTACLE, 233,234 LIGHTING	
13	15	1	3	16	1424			097,099,104,110 LIGHTING, 171,172,173 RECEPTACLES	
14	15	1	1	2	180			220 RECEPTACLE	
15	15	1	1	2	180			210 RECEPTACLE	
16	15	1	4	2	720			223,227 RECEPTACLES	
17	15	1	4	2	720			179,181,182 RECEPTACLES	
18	15	1	5	2	900			081,084,085,089,091 RECEPTACLES	
19	15	1	6	2	1080			213,215 RECEPTACLES	
20	15	1	3	2	540			234 RECEPTACLES	
21	20	1	6	2	1080			215, 216 RECEPTACLES	
22	15	1	10	1	814			240 PACU LIGHTING	
23	15	1	6	2	1080			039,040,045 RECEPTACLES	
24	15	1	1	11	62			239 UTILITY LIGHTING	
25	15	1	1	5	300			038 PAGING AMPLIFIER	
26	15	1	1	5	500			EXISTING LOAD	
27	15	1	1	5	480			058 FIRE ALARM CONTROL PANEL	
28	15	1	1	5	500			EXISTING LOAD	
29	15	1	1	5	480			058 FIRE ALARM CONTROL PANEL	
30	20	1	5	2	900			215,217 RECEPTACLES	
31	15	1	2	2	360			240 RECEPTACLES	
32	15	1	1	2	180			240 RECEPTACLES	
33	15	1	2	2	360			240 RECEPTACLES	
34	15	1	1	5	500			EXISTING LOAD	
35	15	1	4	2	720			240 RECEPTACLES	
36	15	1	1	5	500			EXISTING LOAD	
37	(2)	1	1	720				240 RECEPTACLES (TANDEM CIRCUIT BREAKER 2-20A 1P)	
38	30	2	2	2	360			102 OR NO. 2, 103 OR NO. 1	
39	20	1	4	2	720			240 RECEPTACLES	
40	30	-	2	2	360			102 OR NO. 2, 103 OR NO. 1	
41	20	1	3	2	540			240 RECEPTACLES	
42	20	1	3	2	540			240 RECEPTACLES	
CONNECTED LOAD (VA)					6267	7321	8391	21979	70 MAX. PHASE AMPS
COMP. LOAD FACTOR (VA)					0	0	0	0	
COMPUTED LOAD (VA)					6267	7321	8391	21979	70 MAX. PHASE AMPS
CONT. LOAD FACTOR (VA)					377	605	458	1440	
CONDUCTOR LOAD (VA)					6644	7926	8849	23419	74 MAX. PHASE AMPS

- PANEL X IS BEING DEMOLISHED. RECONNECT THE EXISTING CIRCUITS TO PANELS EXCR AND EXLS.
- THE CIRCUIT 37 CIRCUIT BREAKER IS A 20A TANDEM UNIT. ONE BREAKER (X-37A) FEEDS RECEPTACLES IN PACU VIA A 1/2" WITH 8-12AWG AND 1-12AWG. THE OTHER CIRCUIT BREAKER (X-37B) FEEDS RECEPTACLES IN PACU 240 VIA A 1/2" WITH 2-12AWG AND 1-12AWG. RECONNECT X-37A TO EXCR-37. RECONNECT X-37B TO EXCR-24.

14 PANEL X SCHEDULE
 NTS

EXISTING NORMAL BRANCH-CIRCUIT PANELBOARD
 A

SERVICE: 208Y/120V S/N 3P 4W BUS: 225A LOCATION: 242 CORRIDOR
 MAIN BREAKER: LUGS ONLY FEEDER: SEE ONE LINE DIAGRAM VER: A3
 ENTER CABT AT: MOUNTING: FLUSH MINIMUM AIC RATING: 10,000

CIRCUIT	TYPE	RELAY	TRIP	LOAD	VOLT AMPS A	VOLT AMPS B	VOLT AMPS C	DESCRIPTION	
1	20	1	11	5	500			EXISTING LOAD	
2	20	1	11	1	401			174,175,176,178,179,180,181 LIGHTING	
3	20	1	2	1	62			170,171 LIGHTING	
4	20	1	7	1	574			182,183 LIGHTING	
5	20	1	7	1		340		170,171,172,173,175 LIGHTING	
6	20	1	4	1	128			184, HAZARDOUS WASTE LIGHTING	
7	20	1	7	1	479			125,127,129 LIGHTING	
8	20	1	9	1	403			185,210,211,213,214 LIGHTING	
9	20	1	1	5	500			EXISTING LOAD	
10	20	1	1	5	500			EXISTING LOAD	
11	20	1	1	5	500			EXISTING LOAD	
12	20	1	1	5	500			EXISTING LOAD	
13	20	1	5	1	305			242,244 LIGHTING	
14	20	1	5	1	1440			PATIENT BED ROOM HVAC UNITS	
15	20	1	5	1	550			242,244 LIGHTING	
16	20	1	4	5	1440			PATIENT BED ROOM HVAC UNITS	
17	20	1	4	2	720			126 RECEPTACLES	
18	20	1	3	2	540			125,130 RECEPTACLES	
19	20	1	4	2	720			125,127,128 RECEPTACLES	
20	20	1	1	2	500			EXISTING LOAD	
21	20	1	4	2	720			127,128,130 RECEPTACLES	
22	20	1	1	2	500			EXISTING LOAD	
23	20	1	5	2	900			171,172 RECEPTACLES	
24	20	1	13	2	2340			186,210,212,213 RECEPTACLES	
25	20	1	8	2	1440			171,172,174,175 RECEPTACLES	
26	20	1	5	2	900			184,186,191 RECEPTACLES	
27	20	1	11	2	1980			174,175,176,177,179,181 RECEPTACLES	
28	20	1	10	2	1800			182,185 RECEPTACLES	
29	20	1	4	2	720			242 RECEPTACLES	
30	20	1	2	2	360			240 RECEPTACLES	
31	20	1	1	5	500			EXISTING LOAD	
32	20	1	3	2	540			238 RECEPTACLES	
33	20	1	1	2	180			127 RECEPTACLE	
34	20	1	1/4	3	696			EXHAUST FAN	
35	20	1	1	242				239A LIGHTING AND RECEPTACLES	
36	20	1	1	0				SPACE	
37	1	1	1	0				SPACE	
38	30	2	1	2	180			PORTABLE X-RAY RECEPTACLE	
39	1	1	1	0				SPACE	
40	30	-	2	2	180			PORTABLE X-RAY RECEPTACLE	
41	20	1	1	5	500			EXISTING LOAD	
42	20	1	1	5	125			EXIT LIGHTS	
CONNECTED LOAD (VA)					8308	9682	7915	25905	81 MAX. PHASE AMPS
COMP. LOAD FACTOR (VA)					0	0	0	0	
COMPUTED LOAD (VA)					8308	9682	7915	25905	81 MAX. PHASE AMPS
CONT. LOAD FACTOR (VA)					397	471	164	1031	
CONDUCTOR LOAD (VA)					8705	10153	8079	26936	85 MAX. PHASE AMPS

- CONNECT NEW LOAD TO EXISTING SPARE CIRCUIT BREAKER. PANEL A AND THE UPSTREAM DISTRIBUTION HAVE CAPACITY FOR THE NEW LOAD.

16 PANEL A SCHEDULE
 NTS

NEW CRITICAL BRANCH-CIRCUIT PANELBOARD
 EXCR

SERVICE: 208Y/120V S/N 3P 4W BUS: 225A LOCATION: 241 CORRIDOR
 MAIN BREAKER: 175A CIRCUIT BREAKER FEEDER: SEE ONE LINE DIAGRAM VER: A4
 ENTER CABT AT: TOP MOUNTING: FLUSH MINIMUM AIC RATING: 10,000

CIRCUIT	TYPE	RELAY	TRIP	LOAD	VOLT AMPS A	VOLT AMPS B	VOLT AMPS C	DESCRIPTION
1	15	1	7	1	175			226,241,242 EXIT LIGHTS
2	15	1	3	1	75			244,245 EXIT LIGHTS
3	15	1	3	1		186		242 CORRIDOR LIGHTING
4	15	1	2	1		124		241 CORRIDOR LIGHTING
5	15	1	3	1		195		040,045 LIGHTING
6	15	1	11	1		650		054,066,243,245 LIGHTING
7	15	1	4	1	248			215 LIGHTING
8	15	1	5	1	125			171,172,174,179,181 NIGHT LIGHTING
9	15	1	13	1	1097			215,216,217,227,230,231 LIGHTING
10	15	1	7	1	200			081,084,085,089,091,220,223 NIGHT LIGHTING
11	15	1	13	1		784		102,103,128 LIGHTING
12	15	1	1	4		320		232 RECEPTACLE, 233,234 LIGHTING
13	15	1	3	16	1424			097,099,104,110 LIGHTING, 171,172,173 RECEPTACLES
14	15	1	1	2	180			220 RECEPTACLE
15	15	1	1	2	180			210 RECEPTACLE
16	15	1	4	2	720			223,227 RECEPTACLES
17	15	1	4	2	720			179,181,182 RECEPTACLES
18	15	1	5	2	900			081,084,085,089,091 RECEPTACLES
19	15	1	6	2	1080			213,215 RECEPTACLES
20	15	1	3	2	540			234 RECEPTACLES
21	20	1	6	2	1080			215, 216 RECEPTACLES
22	20	1	13	1	994			240 PACU LIGHTING, NEW 239A, 239B LIGHTING
23	15	1	6	2	1080			039,040,045 RECEPTACLES
24	20	1	2	2	360			240 PACU RECEPTACLES
25	30	3	1	2	550			PANEL EXLS
26	15	1	1	5	500			EXISTING LOAD
27	30	-	1	5	790			PANEL EXLS
28	15	1	1	5	500			EXISTING LOAD
29	30	-	1	5	1325			PANEL EXLS
30	20	1	5	2	900			215,217 RECEPTACLES
31	15	1	2	2	360			240 RECEPTACLES
32	15	1	1	2	180			240 RECEPTACLES
33	15	1	2	2	360			240 RECEPTACLES
34	15	1	1	5	500			EXISTING LOAD
35	15	1	4	2	720			240 RECEPTACLES
36	15	1	1	5	500			EXISTING LOAD
37	20	1	2	2	360			240 PACU RECEPTACLES (FORMER X-37A CIRCUIT)
38	30	2	2	2	360			102 OR NO. 2, 103 OR NO. 1
39	20	1	4	2	720			240 RECEPTACLES
40	30	-	2	2	360			102 OR NO. 2, 103 OR NO. 1
41	20	1	3	2	540			240 RECEPTACLES
42	20	1	3	2	540</			

1.16 Demolition

- A. Contractor shall visit the job site prior to submitting a bid to determine the scope of the demolition Work, and to become familiar with the existing conditions that will affect his work and therefore his bid.
B. Agency shall have first right of refusal of all salvagable materials removed from the building. Materials not claimed by the Agency shall become the property of the Contractor, and shall be removed from the site by the Contractor.
C. Areas vacated by equipment shall be left in neat and safe condition.
D. Maintain circuit continuity to equipment, devices, luminaires, and all special systems that will remain active. Remove all existing abandoned electrical conduits, junction boxes, supports, and wiring back to panels or switchboards, except where it will affect existing equipment that will remain.
E. Perform all work required for relocation and extension of luminaires, conduits, outlets, etc. to clear the area of demolition and for removal. Re-use existing panel directories shall indicate loads and areas served after remodel. Provide new typed directory card when five or more circuits are changed.
F. Where existing switches, receptacles, luminaires, junction boxes, equipment, etc. are not to be reused, remove and patch the opening.
G. All switches and circuit breakers that become spares as a result of the demolition or remodel Work shall be labeled "spare." No wires shall remain connected to them. The switches or circuit breakers shall be left in the "off" position.

II PRODUCTS AND MATERIALS

2.01 Conductors

- A. Conductors shall be 600-volt, soft drawn copper. Conductors shall have type THHN/THWN insulation. 8 AWG and larger shall be stranded. 10 AWG and smaller shall be solid or stranded.
B. Conductors shall not be smaller than 12 AWG unless otherwise noted.
C. All conductors shall be installed in conduit as indicated on plans.
D. Identify all new conductors in existing panelboards, circuit breakers, pullboxes, junction boxes, and outlet boxes.
E. Provide 1/8-inch diameter dimensioned polyethylene pulltape in each empty conduit.
F. Comply with NEC and the following for color-coding of conductors. Color-codes all secondary service, feeder, and branch circuit conductors. 208-volt system neutrals shall be white. All other system neutrals shall be white with an identifiable color stripe. 208 volt ungrounded conductors for phase A, phase B, and phase C shall be black, red, and blue respectively. The color coding for conductors 6 AWG and smaller shall be continuous along the entire length.
G. Provide electrical insulating tape, heat-shrinkable insulating tubing and boots, solder, electrical soldering flux, wire nuts, and cable ties as recommended for use by accessories manufacturers for type services indicated. Splices in wet locations shall be suitable and listed for continuous operation under water.

2.02 Conduit

- A. All conduits shall be UL listed and labeled.
B. Material:
1. Electrical Metallic Tubing (EMT): Electrical metallic tubing shall be galvanized steel with a corrosion resistant inner coating and shall be produced in accordance with UL Safety Standard #787 and ANSI C90.3.
2. Flexible Metal Conduit: Flexible metal conduit shall be steel and shall be constructed of single strip, flexible continuous, interlocked, and double-wrapped steel. Conduit shall be galvanized inside and outside. Aluminum conduit shall not be used.
3. Liquid-Tight Flexible Metal Conduit: Liquid-tight flexible metal conduit shall be steel and shall be constructed of single strip, flexible, continuous, interlocked, and double-wrapped steel. Conduit shall be galvanized inside and outside. Coat with liquid-tight jacket of flexible thermoplastic. Conduit shall include a copper ground in sizes through 1-1/4". Aluminum conduit shall not be used.
4. Rigid Steel Conduit: Rigid steel conduit shall be hot dip galvanized steel manufactured in accordance with UL Safety Standard #6 and ANSI C 80.1.
5. Fittings: All locknuts for metallic conduits shall be galvanized or zinc plated steel. Insulating bushings shall be high impact thermoplastic. Fittings used outdoors or in other wet locations shall be UL listed for wet location. Fittings for EMT shall be compression or set screw type zinc plated steel or zinc die cast.
C. Conduit usage:
1. Install rigid steel conduit where subject to mechanical damage, where exposed on the exterior, or exposed on the interior below four feet above the floor.
2. Install electrical metallic tubing in places where rigid or flexible conduit is not required, such as stud walls, ceiling spaces, and exposed areas on the interior over four feet above the floor.
3. Install flexible steel conduit for final connection to motors or other vibrating equipment and where indicated on the drawings. It may also be used in other locations where, due to structural conditions, EMT or rigid conduit cannot be used. This use will be allowed only if approved by the Agency's Representative. Lengths of flexible steel conduit shall not exceed six feet in any path to ground.
4. Install liquid-tight flexible conduit and fittings for final connection in wet, damp, or outdoor areas to motors or other vibrating equipment, where subjected to dripping oil, and where indicated on the drawings.
D. Conduit installation:
1. Field bends in conduit shall be workmanlike and smooth and shall not materially reduce the internal diameter of the conduit. Bends shall not be made at joints.
2. Keep conduit interior clean and clear.
3. Provide secure mounting facilities for all conduits. Factory made strap of the one-hole galvanized malleable iron or two-hole galvanized steel clamp type shall be used. Wire or plumber's tape shall not be used for hanging conduits.
4. Provide junction or pull boxes in addition to those shown on drawings, where required for pulling conductors due to excessive number of bends or to length of conduit runs. Coordinate locations of pull boxes with all existing building features and equipment.
5. Recurse conduit where necessary to clear structural and mechanical obstructions. All rerouting shall be approved by the Agency prior to installation.
6. Ends of conduit shall be cut square and reamed to remove any burrs and sharp edges. Conduit terminations at panelboards and boxes shall be provided with locknuts and bushings.
7. Prime and finish paint all exposed conduits to match adjacent surfaces.
8. Existing conduits in accessible ceiling spaces where the ceiling is opened as part of this work, shall be supported from the structure in compliance with this specification and with the seismic requirements of the State of California. Existing conduits include those conduits that are not directly affected by the work of this project.

2.03 Grounding

- A. General: Except as otherwise indicated, provide electrical grounding systems indicated, with assembly of materials including, but not limited to, cables/wires, connectors, terminals (solderless lugs), grounding buses in distribution equipment and panelboards, and additional accessories needed for complete installation. Where more than one type unit meets indicated requirements, selection is installer's option. Where materials or components are not indicated, provide products complying with NEC, IEEE, and established industry standards for applications indicated.
B. Conductors: Unless otherwise indicated, provide electrical grounding conductors for grounding connections matching power supply wiring materials and sized according to NEC.
C. Electrical Grounding Connection Accessories: Provide electrical insulating tape, heat-shrinkable insulating tubing, welding materials, and bonding straps, as recommended by accessories manufacturers for type of service indicated.

2.04 Outlet and Junction Boxes (50 cu.in and smaller)

- A. Concealed outlet boxes: Provide UL listed and labeled galvanized flat rolled sheet steel interior outlet boxes of types, shapes, number of gangs, sizes, and depths to suit each location, number and AWG of wires passing through or terminating within, and wiring devices installed but in no case less than 4" square by 1-1/2" deep unless specifically noted as smaller on the drawings. Telephone, data, or communication outlet boxes shall be minimum 2-1/8" deep. Boxes shall have stamped knockouts in back and sides and shall have threaded screw holes with corrosion resistant screens for securing wiring devices and box covers. Boxes installed within masonry or concrete walls shall be type approved for that application.
B. Exposed outlet boxes: Provide corrosion-resistant cast metal outlet boxes of types, number of gangs, shapes, and sizes including depth of boxes, to suit each respective location and installation. Construct with threaded rigid hubs of the quantity and size required at each location, and with threaded screw holes with corrosion-resistant screws for securing box covers and wiring devices. Provide boxes of proper code size for the number of and types of devices installed and number and AWG of wires passing through or terminating therein, but in no case less than 4-9/32" high by 2-3/4" wide by 2-5/8" deep, unless specifically noted as smaller on the Drawings.
C. Exposed Outlet Box Accessories: Provide outlet box accessories as required for each installation that are compatible with outlet boxes being used and fulfilling requirements of individual wiring situations. Provide cast metal covers either blank or with the proper configuration for the devices installed at each location. Exposed outlet boxes in damp or wet locations shall be provided with in-use covers suitably configured for each application and device installed, including faceplate gaskets and corrosion-resistant fasteners.
D. Coordinate outlet box requirements with the manufacturer of the device to be installed.
E. Outlet boxes shall be as manufactured by Appleton, Bell, Bowers, Crouse-Hinds, O-Z Gedney Co., Red Dot, Steel City/Midland-Ross Corp., or RACO, Inc.
F. Install boxes and conduit bodies in locations, which ensure ready accessibility of electrical wiring.
G. Fasten boxes rigidly to substrates and structural surfaces or solidly embed electrical boxes in concrete or masonry.
H. In existing areas where ceilings are to be replaced, outlet, junction, and pull boxes that are to remain above the ceilings shall be supported and seismically braced from the structure above.
I. Outlet boxes on the essential electrical system shall be identified with the letter "E", applied using a permanent marker.
J. Provide steel partition between switches in common outlet boxes when fed from separate normal and emergency voltage systems.

2.05 Outlet and Junction Boxes (larger than 50 cu.in)

- A. Provide galvanized code gage sheet steel junction and pull boxes, with screw-on covers, of types, shapes, and sizes to suit each respective location and installation, with welded seams and equipped with stainless steel nuts, bolts, screws, and washers. Furnish in prime coat. Finish paint all exposed junction and pull boxes in finished areas and on exterior of building to match adjacent surfaces or a color directed by Architect. Provide engraved nameplate on each pull box and junction box identified with a specific name on the Drawings.
B. Available Manufacturers: Subject to compliance with requirements, manufacturers offering junction and pull boxes that may be incorporated in the work include, but are not limited to, Circle A-W, Cross, Hammond, or equal.

2.06 Wiring Devices

- A. Provide factory-fabricated wiring devices in types, colors, and electrical ratings for applications indicated and complying with NEMA Standards Publication No. WD 1. Where types and grades are not indicated, provide proper selection as determined by installer to fulfill wiring requirements and complying with NEC and NEMA standards for wiring devices.
B. Receptacles:
1. Ground Fault Circuit Interrupter (GFCI): GFCI receptacles shall be duplex, three-wire, NEMA 5-15 R or 5-20 R, 125-volt, parallel slot, polarized where indicated, in ivory color for normal system circuits and red color for essential electrical system circuits. GFCI receptacles shall be 20A feed-through type, capable of protecting connected downstream receptacles on single circuit, grounding type UL-rated Class A, 60 Hz, with solid state ground fault sensing and signaling, with 4-6 milliamperes ground fault trip level, and UL listed as Hospital Grade. Devices shall be Hubbell GFS200 or Cooper VGH15, 15 ampere and Hubbell GFS300 or Cooper VGH20 for 20 ampere, or equal.
2. Provide 20-ampere, 125-volt receptacle as indicated on the Drawings and/or where only one (1) duplex receptacle is provided on a separate 20-ampere, 120-volt circuit, or where the item of equipment to be connected requires a 20-ampere receptacle.
C. Switches
1. Snap: Provide toggle switches, 20 ampere, 120/277 volt AC, quiet type with steel mounting strap insulated from mechanism. Equip with plunger, nylon or lexan switch handle, and back and side wired screw terminals. Switch shall include a steel grounding clip that shall automatically provide grounding continuity between the metal strap and a grounded metal wall box. Flat or surface mount per drawings.
2. Provide line voltage specification grade lighting circuit switches at locations indicated on the drawings. Handles shall be ivory for normal circuits and red for essential electrical circuits. Single pole switches shall be Hubbell HBL 1221, Leviton 1221-2, or equal. Three-way switches shall be Hubbell HBL 1223, Leviton 1223-2, or equal.
3. Verify correctness or door swings and locates switches on the latch side of the door swing.
4. Where switches are located in damp or wet locations, provide spring-loaded covers of types suitable for type of box installed. Covers shall be by Bryant, Hubbell, Leviton, or equal.

2.07 Luminaires

- A. Provide new luminaires of sizes, types, ratings and manufacturer, complete with, but not necessarily limited to, housings, lamps, lamp holders, reflectors, lenses, louvers, ballasts, starters, and wiring as specified on the drawings.
B. Provide electronic fluorescent lamp ballasts, capable of operating lamp types indicated, with high power factor, light-start or instant start, and low noise features, Type 1, Class P, sound-rated A, and with internal thermal protection. Minimum ballast factor shall be 0.88. Total harmonic distortion shall not exceed 20%. Ballasts for multiple lamps shall be wired for parallel lamp operation. Ballast shall be immune to transient voltages.
C. Provide lamps of colors indicated as manufactured by General Electric or Sylvania. For fluorescent luminaires, use General Electric 800 Series or Sylvania Octon 800 Series lamps where SPX35 lamps are indicated on the Drawings. Lamps shall have a minimum CRI of 85.
D. Install luminaires at locations and heights as indicated, complying with manufacturer's written instructions, applicable requirements of NEC, NECA's "Standard of Installation", NEMA standards, and recognized industry practices to ensure that products fulfill requirements.
E. Coordinate with other electrical work and work of all other Divisions as necessary for proper interface.
F. Fasten luminaires securely to indicated structural support, and check to ensure that pendant luminaires are plumb.
G. Wire luminaires with conductors suitable for the voltage, current, temperature, and environment to which the conductors will be subjected.
H. Clean luminaires in areas of this phase of the work of dirt and debris and replace burned-out lamps before final acceptance of the installation.
I. Protect installed luminaires from damage during construction period.
J. Upon completion of installation of luminaires and after building circuitry has been energized, apply electrical energy to demonstrate capability and compliance with requirements. Where possible, correct malfunctioning units at site, then reset to demonstrate compliance. Otherwise, remove and replace with new units, and proceed with retesting.
K. Replace defective and burned-out lamps before Substantial Completion.
L. Replace burned-out lamps in existing luminaires that are relocated, reinstalled, and reconnected as part of the work of this Division.
M. Provide tight equipment grounding connections for each luminaire installation.

2.08 Faceplates

- A. Provide single switch and duplex outlet faceplates, of types, sizes, and with ganging and cutouts as indicated. Provide faceplates possessing the following additional construction features:
1. Material and Finish:
a. 0.032" thick, type 302 stainless steel in dry locations except as otherwise selected by Engineer.
b. Steel plate, galvanized for unfinished areas.
2. Engraved lettering shall be provided on plates for the following:
a. Emergency receptacles indicating panel and circuit number.

2.09 Panelboards

- A. General: Provide new panelboards, enclosures, and ancillary components of types, sizes, and ratings indicated, which comply with manufacturer's standard materials, design, and construction according to published product information. Equip with number of unit panelboard devices as required for complete installation. Where types, sizes, or ratings are not indicated, comply with NEC, UL, and established industry standards for applications indicated.
B. Provide dead front safety type lighting and appliance panelboards as indicated, with switching and protective devices in quantities, ratings, types, and arrangements shown, with anti-burn solderless pressure type lug connectors approved for copper conductors. Equip with copper bus bars, full-sized neutral bar, with bolt-in type heavy duty, quick make, quick break, circuit breakers as indicated on schedules. Provide suitable lugs on neutral bar for each outgoing feeder required. Provide bare copper uninsulated grounding bar suitable for bolting to enclosure. Circuit breakers shall be thermomagnetic with minimum AIC as indicated on the Drawings. Circuit breakers serving mechanical equipment shall be HACR rated. Branch circuits feeding motors, appliances, and signal and control systems shall have provisions for padlocking the breaker in the open or closed position.
C. Nameplates: Provide nameplates on new and existing panels to match the designation as indicated on the Drawings.
D. Panelboard Enclosures: Panelboards shall have flush or surface mounted trim with one door to access the interior and a second door to access the panelboard wireway. The front shall not be hinged to the box. Both doors shall be lockable and keyed alike. Provide galvanized sheet steel cabinet type enclosures, in sizes and NEMA types indicated, code gauge, minimum 16 gauge thickness. Construct with blank endplates and wiring gutters. The wiring gutters shall be sufficient to accommodate the conductor sizes shown on the drawings. Provide doors with flush locks and keys, all panelboard enclosures keyed alike, with concealed door hinges and door swings as indicated. All panelboards shall be equipped with interior circuit directory metal frame cardholder and card with clear plastic covering containing neatly typewritten schedule and mounted on the inside of the door. Provide baked gray enamel finish over a rust inhibitor. Provide enclosures fabricated by same manufacturer as panelboards, which mate properly with panelboards to be enclosed. Enclosures shall be minimum 20" wide by 5-3/4" deep with height as required.
E. Panelboard Accessories: Provide panelboard accessories and devices including, but not necessarily limited to, circuit breakers, ground fault protection units, etc., as recommended by panelboard manufacturer for ratings and applications indicated.
F. Seismic certification: Certify panelboards to meet all applicable seismic requirements of the California Building Code for Seismic Zone 4 application. Submit guidelines for the installation consistent with these requirements prepared by the panelboard manufacturer and based upon testing of representative equipment.
G. Provide panels as manufactured by Square D (NOOD), General Electric (AQ), or Cutler-Hammer (Pow-R-Line 1).

2.10 Circuit breakers

- A. Circuit breakers: New circuit protective devices shall match existing manufacturer and have same short circuit rating. New molded case thermal magnetic circuit breakers shall have toggle handles that indicate when breaker is tripped. Multiple pole breakers shall have common trip so overload on one pole will trip all poles simultaneously. Provide padlockable lock-offs on each new circuit breaker. Circuit breakers shall be automatic with an interrupter and trip element for each pole, all enclosed in a molded plastic case. The operating mechanism shall provide quick-make, quick-break, trip free contact action. The operating handle of the circuit breaker shall open and close all poles of a multi-pole breaker simultaneously. Each breaker shall have a thermal magnetic trip unit for each pole, consisting of a thermal element for time-delayed overload protection and a magnetic element for short circuit protection. Individual single pole breakers with the bars will not be acceptable. The breakers shall have a visible trip indication. Units shall be of the size shown on the drawings and shall meet NEMA and/or UL specifications. Make modifications and additions to feeders and distribution branch circuits as indicated on drawings.

2.11 Occupancy Sensors

- A. Occupancy sensors shall be passive infrared type with vandal resistant Poly IR4 Fresnel lens, adjustable settings for on-mode operation that provide both automatic and manual on, time delay, sensitivity, and light level control, manual off switch, and built-in light level sensor. The sensor shall provide 1,000 square feet of coverage for walking motion with a 180 degree field of view, and shall not require a minimum connected load for proper operation. Sensors shall mount in standard electrical outlet box.
B. Device color shall be ivory. Devices shall be Wattstopper PW-100-I, or equal.

2.12 Nurse Call System

- A. Provide new complete stand alone nurse call system with power supply, corridor dome light, and emergency pull cord station. When a call is placed at the pull cord station the corridor dome light shall illuminate and provide an audible tone. Calls shall be canceled at the station.
B. The corridor dome light shall have an incandescent lamp under a translucent white plastic cover and a piezoelectric tone device, which are both mounted on a stainless steel double gang back plate. Provide Cornell Communications model LS-201 or equal.
C. The emergency pull cord station shall have a slide switch suitable for connection of a pull cord and be mounted on a single gang stainless steel backplate. The station shall include a six foot nylon cord. Calls shall be initiated by pulling the cord. The station shall reset after a call by moving the switch back to the off position. Provide Cornell Communications model E-114 or equal.
D. The power supply shall provide 1-amp continuous output current at 24VDC from a 120VAC input. Power supply shall be protected against short circuit and thermal overload. The power supply shall be housed in a sheet metal NEMA 1 enclosure. Provide Cornell Communications model P-51224A or equal.

2.13 Fire Alarm System

- A. Provide new fire alarm system devices compatible with the existing fire alarm system. Provide all programming modifications required to integrate the new devices into the existing system.
B. Stand-alone strobes shall have a Xenon flash tube with a Lexan cover and shall flash once per second minimum over their regulated voltage range. Strobe output rating shall be fixed at 15 candela unless otherwise indicated on the Drawings. Strobe shall comply with FCC Part 15 Class B. Strobes shall be capable of free run operation or synchronized operation when used with a synchronizing module. Appliances shall comply with UL 1971. Stand-alone strobes shall be Simplex model 4904-9176 (wall mount), CSFM listing no. 7125-0026:248.

III EXECUTION

3.01 Completion date

- A. Submit completion data to the Architect and Agency in acceptable quantity and form before requesting a final inspection. Such submittal shall be corrected, amended, or completed to the satisfaction of all acceptance of the work.
B. Include: warranties; record drawings and data; test results; manufacturer's installation, operating, and maintenance instructions; certifications by manufacturers as required; approvals by other authorities where specified or where required by the general, special, or supplementary general conditions.

3.02 Manufacturer's directions

- A. Follow manufacturer's directions and recommendations in all cases where the manufacturers of articles used for this work furnish directions covering points not shown or specified.
3.03 Mounting: Provide all materials and accessories necessary to properly mount and secure equipment furnished and/or installed under the electrical work. The items requiring mounting include, but are not limited to, conduits, outlets, junction boxes, pull boxes, etc. Mounting shall comply with the 2013 edition of Title 24, Part 2, California Building Code and the 2010 edition of ASCE 7 Chapter 13.

3.04 Flush mounted panels, loadcenters, and terminal cabinets shall have a minimum of three 3/4"CO stubbed into accessible ceiling space, in addition to the conduits indicated on the drawings.

3.05 Cleaning: During construction and upon completion of the work, remove from the entire site all debris and excess materials, tools, etc., resulting from this work. Clean all equipment provided or modified as part of this work, including luminaires, free from dust, dirt, grease, paint, etc.

3.06 Concrete Anchors and Inserts

- A. Concrete and masonry expansion type anchors shall be equal to HITI KWIK BOLT TZ Wedge anchors. Allowable shear and tension values in pounds for each anchor shall comply with latest issue of ICBO Report No. ESR-1917. Provide anchors of diameter and minimum embedment as required by loads.
B. Expansion type anchors shall be proof load tested per requirements of the State of California.

3.07 Obtain all required permits; Agency will pay for permits, inspections, and examinations.

I GENERAL

- 1.01 All work and materials shall be in accordance with all applicable codes, including the 2013 California Electrical Code and governing authorities. Nothing in the plans or specifications shall be deemed as permission to violate these codes or authorities. General and special conditions apply to work of this division.

1.02 All materials shall be new and shall be listed and labeled or labeled only by a Nationally Recognized Testing Laboratory. All material shall also comply with the following standards:

- A. National Electrical Manufacturers Association
B. American National Standards Institute
C. Institute of Electrical and Electronics Engineers

- 1.03 Submit for approval minimum of five (5) copies of shop drawings for all new electrical equipment including circuit breakers, boxes, conduits, conductors, luminaires, wiring devices, fire alarm system devices, and nurse call system including wiring diagrams with terminal numbers and wire designations. Similar materials shall be the products of a single manufacturer. The luminaire submittal shall include descriptive data provided by the manufacturer of the electronic ballasts.

- 1.04 Provide submitting to OSHPD scaled mounting details and seismic anchoring calculations prepared and signed by Structural Engineer registered in the State of California for each piece of wall or floor mounted distribution equipment whose dimensions or weights or anchorage requirements vary from those shown on Drawings and anchorage schedules.

- 1.05 Maintain a set of full sized record drawing board or blue-line prints with all changes indicated in red ink. Forward to Engineer for review. Mark specifications to identify equipment installed.

- 1.06 All work, materials, and equipment provided and/or installed under this section of the specification shall be warranted for a period of twelve months from date of acceptance of work by the Agency. The word "provide" means to furnish, install, and electrically connect as part of the work of this division.

- 1.07 Examine all existing conditions as applicable. Become acquainted with Specifications and Drawings for all portions of the Project. Notify Agency's Representative (before bidding if possible) of any apparent discrepancies between the Specifications and Drawings for different parts of the Work or of any inconsistencies between the Specifications and Drawings and the existing conditions. Obtain and follow Agency's Representative's instructions.

1.08 Work shall include but not necessarily be limited to the following:

- A. Demolition of existing electrical system components as indicated.
B. Installation of new branch-circuit panelboards with reconnection of existing branch-circuits from panel X as indicated.
C. Installation of new nurse call system serving PACU toilet room.
D. Installation of new fire alarm system strobe with modifications to existing system.
E. Installation of new luminaires and wiring devices as indicated.
F. Grounding of equipment as indicated or required for electrical systems.
G. All cutting, excavation, core drilling, patching, and restoration of disturbed surfaces required in conjunction with electrical work.
H. Conduit sleeves, metal frames, galvanized channel support systems, and backing required for installation of electrical conduits, luminaires, devices, and equipment.
I. Prime and finish painting of all exposed electrical surfaces, conduits, boxes, and supports to match adjacent surfaces under another Division of the Work.

1.09 Rough-in

- A. Verify all electrical rough-ins required for each new device or piece of equipment to be connected as part of this work.

1.10 Electrical Installations

- A. Verify all dimensions by field measurements. The Drawings serve as working drawings only, indicating diagrammatically the general layout of the systems and their various components and equipment. Existing conduit routing, conductor quantities, and circuiting shown on the Drawings are based on record drawings provided by Agency. Where interceptions or extensions of existing conduits are indicated, Contractor shall field verify exact routing of existing conduits. Provide quantity and type of new conductors to match existing conductors unless noted otherwise on the Drawings.
B. Coordinate the installation of required supporting devices and sleeves with all existing building features and systems and to facilitate maintenance, repair, and replacement of components.
C. Coordinate the installation of new and relocated electrical materials and equipment with existing and new conduits, pipes, support systems, equipment, and building components, to provide for efficient flow of work.
D. Comply with NECA 1-2006 Good Workmanship in Electrical Contracting.

1.11 Interruption of Electrical Systems

- A. All required shutdowns or interruptions of electrical systems shall be coordinated with the Agency. Shutdowns considered to be "critical" by the Agency shall be performed only during the hours from 12:00 midnight to 4:00 A.M. with a maximum down time not to exceed four (4) hours. Shutdowns considered non-critical may be performed during normal working hours unless noted otherwise.
B. At the time of any interruption or cut-off, have all required materials and labor readily available so that the work can be completed without delay and within the approved schedule. Include all required temporary services to maintain power systems to areas where systems cannot be interrupted at any time.
C. All shutdowns and system interruptions shall have Agency's approval 72 hours in advance with regard to date, time, and duration.

1.12 Grounding

- A. Execute grounding of equipment in compliance with applicable codes, governing authorities, and drawings.
B. Make all connections with approved solderless, bolted fasteners unless otherwise noted. Sheet metals straps are prohibited.

1.13 Cutting and Patching

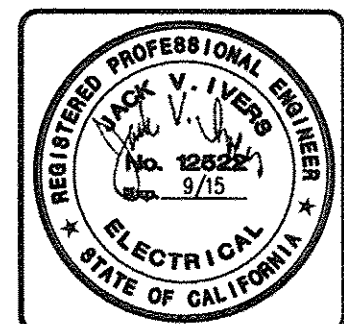
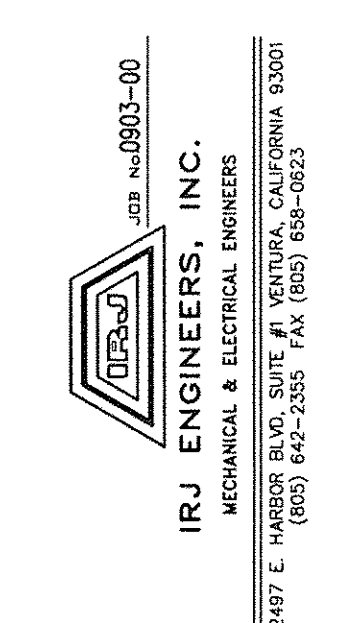
- A. Do all miscellaneous cutting, drilling, and patching necessary and normally required at the time of actually installing this work. Patching shall be of the same materials, workmanship, grade, and finish as the original or surrounding work to the complete satisfaction of the Agency. Do not cut structural framing, walls, floors, and other members intended to withstand stress, except with written authorization. Authorization will be granted only where there is no other reasonable method for completing electrical work and where proposed cutting clearly does not affect the structures in any way.
B. Penetrations through fire rated walls, floors, and ceilings shall be sealed and firestopped with Underwriters Laboratories, State Fire Marshal, and Factory Mutual approved sealant.
C. Core Drilling Concrete: Where authorized, cut openings for conduit penetrations and similar services through concrete or masonry walls by core drilling. Do not cut by hammer-driven chisel or drill. Locate structural steel on both sides of concrete and masonry elements using ground penetrating radar prior to drilling. Reinforcing steel shall not be cut. Penetrations through masonry walls shall be located to provide a maximum of one opening per concrete masonry unit.
D. All costs required to accomplish cutting, repairing, patching, and sealing of new work in existing areas to accommodate the electrical shall be paid for by the Electrical Contractor at no increase in contract cost.

1.14 Marking

- A. In general, and except as modified by details or elsewhere herein, before requesting the Engineer to make final observation, identify all electrical distribution equipment, circuit breakers, and other equipment by means of neat, approved labels, decals, brass tags, engraved plastic laminate or metal strips, neatly painted signs or by other approved means. Provide manufacturer's standard vinyl-cloth self-adhesive cable/conductor markers of wrap-around type, either pre-numbered plastic coated type or write-on type with clear plastic self-adhesive cover flap, numbered to show circuit identification. Where nameplates are indicated, provide engraving stock plastic laminate, complying with FS L-P-387, in sizes and thicknesses indicated, engraved with engraver's standard letter style of sizes and wording indicated, black face and white core piles (letter color) for normal electrical systems, red face and white core piles for essential electrical systems. Provide thickness of 1/16", except as otherwise indicated. Punch plastic laminate for mechanical fastening and provide stainless steel rivets or self-tapping stainless steel screws.

1.15 Tests

- A. Perform all electrical tests as required or as directed including tests indicated by the installation instructions provided with the equipment supplied. Submit test results for inclusion in the operation and maintenance manuals. Provide all materials, labor, and equipment necessary for performance of these tests. At completion of the work perform a complete "in-service" operation of the entire electrical power and control systems added or modified as part of this work, to show compliance with the Drawings and Specifications. Replace any work showing faults under test without additional cost to the Agency.
B. Perform receptances testing for the fire alarm system in accordance with 2013 NFPA 72 Chapter 14 as follows:
1. Per Section 14.4.1.2.1.1: New initiating devices, notification appliances, or control relays shall be functionally tested.
2. Per Section 14.4.1.2.1.2: When initiating devices, notification appliances, or control relays are removed, another existing device, appliance, or control relay on the same circuit shall be tested.
3. Per Section 14.4.1.2.1.4: Changes to site-specific software require the following testing:
a. Test 100 percent of all functions known to be affected by the change, or identified by a means that indicates changes.
b. Test and verify correct system operation for 10 percent of initiating devices that are not directly affected by the change, up to a maximum of 50 devices.
c. Provide a revised record of completion that reflects the changes.



FOR PLAN REVIEW ONLY

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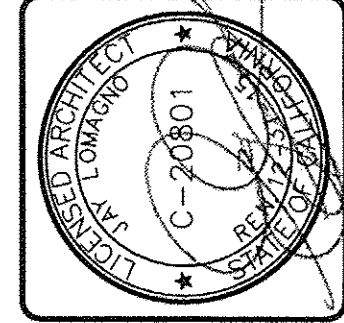


Table with columns: Sheet, Title, Electrical Specifications, Revisions, R/A No., Date, Drawn, Checked, Consult.

P.A.C.U. TOILET
SANTA PAULA HOSPITAL
825 NORTH 10TH STREET
SANTA PAULA, CA

O.S.H.P.D. PROJECT # S141690-56

REVISIONS
8/18/14

COUNTY OF VENTURA
PUBLIC WORKS AGENCY
ENGINEERING SERVICES DEPARTMENT

Table with columns: PROJECT NUMBER, SHEET OF, DRAWING NUMBER.